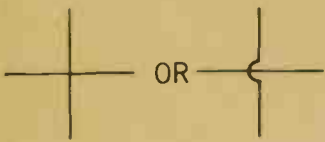


COMMON SCHEMATIC SYMBOLS



UNCONNECTED
WIRES



CONNECTED
WIRES



GROUND



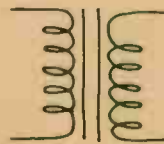
METER



SPEAKER



MICROPHONE



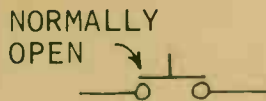
TRANSFORMER



CRYSTAL



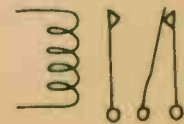
SPST TOGGLE
SWITCH



PUSHBUTTON
SWITCH



PUSHBUTTON
SWITCH



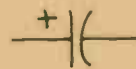
RELAY



RESISTOR



POTENTIOMETER



CAPACITOR



VARIABLE
CAPACITOR



DIODE



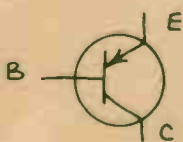
LIGHT EMITTING
DIODE (LED)



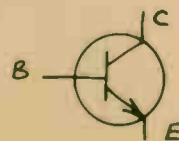
SOLAR CELL



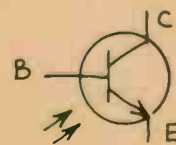
PHOTORESISTOR



PNP
TRANSISTOR



NPN
TRANSISTOR



PHOTOTRANSISTOR
(NPN)



LAMP

ENGINEER'S NOTEBOOK

A HANDBOOK OF INTEGRATED CIRCUIT APPLICATIONS

BY

FORREST M. MIMS, III

CONTRIBUTING EDITOR
POPULAR ELECTRONICS

FIRST EDITION

FIRST PRINTING--1979

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Due to the large volume of mail received by Radio Shack and the author, it is impossible to answer letters requesting custom circuit designs, technical advice, troubleshooting assistance, etc. But though we cannot acknowledge individual letters, we will nevertheless be delighted to review carefully your comments, impressions and suggestions about this book. Address your comments to:

Engineer's Notebook
Radio Shack Technical Publications
Dept. DG
1100 One Tandy Center
Fort Worth, TX 76102

Thanks in advance to those who write.

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INTEGRATED CIRCUIT INDEX

TTL/LS

CMOS/MOS

LINEAR

DEVICE	PAGE	DEVICE	PAGE	DEVICE	PAGE
7400/74LS00	52-53	4001	18	555	114-117
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INTRODUCTION

Though I've kept engineering notebooks for 15 years, the idea for this notebook came from Gary Burkhart, Radio Shack's parts buyer, and Dave Gunzel, manager of Radio Shack's publications division. Gary has long wanted to include in his parts line a no-frills sourcebook of circuits for every Radio Shack IC. He and Dave have invested many hours answering my questions, providing components and technical information and reviewing the circuits. I'm grateful for their assistance.

Unless otherwise acknowledged, the circuits in this notebook are adapted from these sources:

1. Applications information published by the manufacturers of the various ICs.
2. My engineering notebooks.
3. "Experimenter's Corner" and "Project of the Month," two columns I write each month for POPULAR ELECTRONICS magazine.

Many of the circuits were developed specifically for this notebook. I hope you enjoy working with them as much as I have!

Forest M. Mims, III

HOW TO USE THIS BOOK

To squeeze the maximum number of circuits into this notebook, only essential information is provided. Therefore you will want to use this notebook in conjunction with Radio Shack's "Semiconductor Reference Handbook" and other data books.

For a quickie review of important components and construction tips, read the next few pages. The remainder of the notebook is divided into two major sections: digital and linear. The digital section is further divided into two major IC families: MOS/CMOS and TTL/LS. The chips in each section are organized according to function, not numerical sequence.

Though most circuits in this book can function on their own,

consider them as building blocks you can connect to other circuits to accomplish new applications. Experiment! Change resistors and capacitors in RC circuits to alter frequencies and timing. Add new functions. Above all, work with as many different chips as you can. If you've always used TTL, you'll be impressed with the operating flexibility of CMOS. If your forte is digital logic, you'll be amazed at what you can do with an op-amp. Finally, keep a record of your experiments and circuit designs. A notebook with a grid ruling like this one is best, but a 50¢ spiral notebook is OK.

For beginners only....Be sure to read the next few pages! Begin with simple chips (gate packages, timers, op-amps, etc.), and you'll soon be ready for more advanced circuits and projects. Good luck!

REVIEWING THE BASICS

INTRODUCTION

"Can I use a 0.22 uF capacitor instead of a 0.10 uF unit?"

"Is it OK to substitute a 12,000 ohm resistor for a 10,000 ohm unit?"

This section will tackle these common questions and many others. Master them, and you will be well prepared to tackle the circuits in this book!

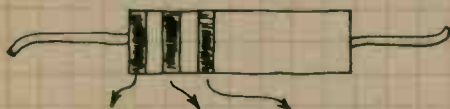
RESISTORS

Resistors limit the flow of electrical current. A resistor has a resistance (R) of 1 ohm if a current (I) of 1 ampere flows through it when a potential difference (E) of 1 volt is placed across it. In other words:

$$R = \frac{E}{I} \text{ (or) } I = \frac{E}{R} \text{ (or) } E = IR$$

These handy formulas form Ohm's law. Memorize them! You'll use them often.

Resistors are identified by a color code:



COLOR	1	2	3 (Multiplier)
BLACK	0	0	1
BROWN	1	1	10
RED	2	2	100
ORANGE	3	3	1000
YELLOW	4	4	10,000
GREEN	5	5	100,000
BLUE	6	6	1,000,000
VIOLET	7	7	10,000,000
GRAY	8	8	100,000,000
WHITE	9	9	(none)

A fourth color band may be present. It specifies the tolerance of the resistor. Gold is $\pm 5\%$ and silver is $\pm 10\%$. No fourth band means $\pm 20\%$.

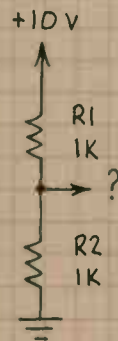
Since no resistor has a perfect tolerance, it's often OK to substitute resistors. For example, it's almost always OK to use a 1.8K resistor in place of a 2.0K unit. Just try to stay within 10-20% of the specified value.

What does K mean? It's short for 1,000. 20K means 20 x 1,000 or 20,000 ohms. M is short for meg-ohm or 1,000,000 ohms. Therefore a 2.2M resistor has a resistance of 2,200,000 ohms.

Resistors which resist lots of current must be able to dissipate the heat that's produced. Always use resistors with the specified power rating! No power rating specified? Then it's usually OK to use 1/4 or 1/2 watt units.

Almost every electronic circuit uses resistors. Here are three of the most important applications for resistors:

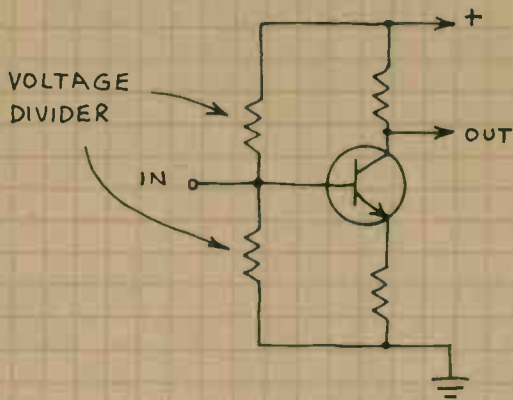
1. Limit current to LEDs, transistors, speakers, etc.
2. Voltage division. For instance:



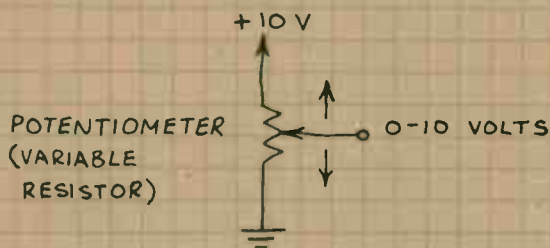
The voltage at ? is $I \times R_2$. I means the current through R_1 and R_2 . So $I = 10 / (R_1 + R_2)$ or 0.005 amperes. Therefore, $? = (0.005) \times (1000)$ or 5 volts.

Note that the total resistance of R_1 and R_2 is simply $R_1 + R_2$. This rule provides a handy trick for making custom resistances.

Voltage dividers are used to bias transistors:



They're also a convenient source of variable voltage:



And they're useful in voltage sensing circuits. See the comparator circuits in this notebook.

3. They control the charging time of capacitors. Read on...

CAPACITORS

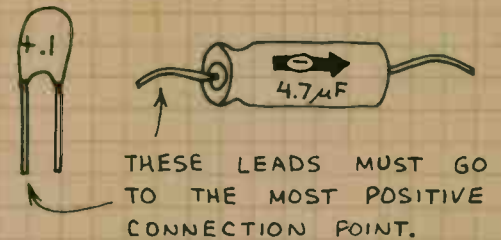
Capacitors store electrical energy and block the flow of direct current while passing alternating current. Capacitance is specified in farads. One farad represents a huge capacitance so most capacitors have values of small fractions of a farad:

1 microfarad (uF) = 10^{-6} farad
 1 picofarad (pF) = 10^{-12} farad
 or
 1 uF = 1,000,000 pF

The value of a capacitor is usually printed on the component. The uF and pF designations may not be present. Small ones marked 1-1000 are rated in pF; larger ones

marked .001-1000 are rated in uF.

Electrolytic capacitors provide high capacity in a small space. Their leads are polarized and must be connected into a circuit in the proper direction.

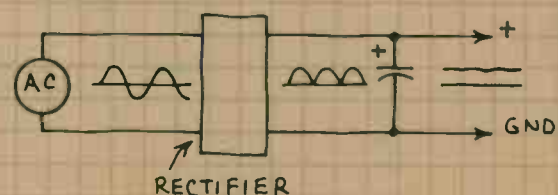


Capacitors have a voltage rating. It's usually printed under the capacity marking. The voltage rating must be higher than the highest expected voltage (usually the power supply voltage).

Caution: A capacitor can store a charge for a considerable time after power is removed. This charge can be dangerous! A large electrolytic capacitor charged to only 5 or 10 volts can melt the tip of a screwdriver placed across its leads! High voltage capacitors can store a lethal charge! Discharge a capacitor by carefully placing a resistor (1K or more; use Ohm's law) across its leads. Use only one hand to prevent touching both leads of the capacitor.

Important capacitor applications:

1. Remove power supply spikes. (Place 0.01-0.1 uF across power supply pins of digital ICs. Stops false triggering.)
2. Smooth rectified AC voltage into steady DC voltage. (Place 100-10,000 uF across rectifier output.)

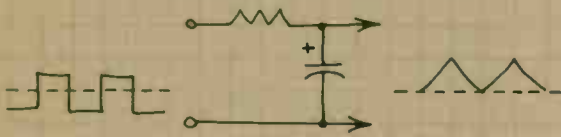


3. Block DC signal while passing AC signal.

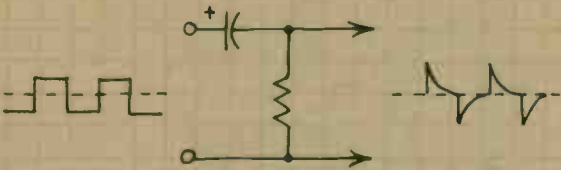
4. Bypass AC signal around a circuit or to ground.

5. Filter out unwanted portions of a fluctuating signal.

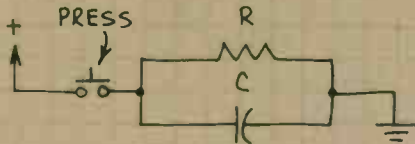
6. Use with resistor to integrate a fluctuating signal:



7. Or to differentiate a fluctuating signal:



8. Perform a timing function:



C will quickly charge...then slowly discharge through R.

9. Store a charge to keep a transistor turned off or on.

10. Store a charge to be dumped through a flashtube or LED in a fast and powerful pulse.

Can you substitute capacitors?

In most cases changing the value of a capacitor 10% or even 100% will not cause a malfunction, but circuit operation may be affected. In a timing circuit, for example, increasing the value of the timing capacitor will increase the timing period. Changing the capacitors in a filter will change the filter's frequency response. Be sure to use the proper voltage rating. And don't worry about the difference between 0.47 and 0.5 uF.

SEMICONDUCTORS

Usually made from silicon. Be sure to observe all operating restrictions. Brief descriptions of important semiconductor devices:

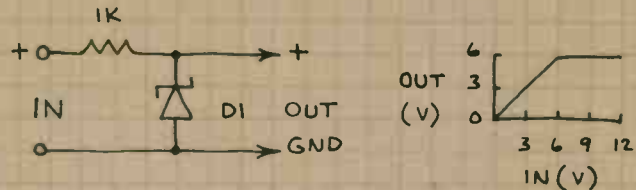
DIODES

Permit current to flow in but one direction (forward bias). Used to rectify AC, allow current to flow into a circuit but block its return, etc.



ZENER DIODES

The zener diode is a voltage regulator. In this typical circuit, voltage exceeding the diode's breakdown voltage is shunted to ground:

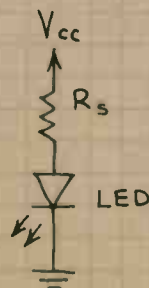


DI = 6 VOLT ZENER DIODE

Zeners can also protect voltage sensitive components and provide a convenient reference voltage.

LIGHT EMITTING DIODES

LEDs emit green, yellow, red or infrared when forward biased. A series resistor should be used to limit current to less than the maximum allowed:



$$R_s = \frac{V_{CC} - V_{LED}}{LED_I}$$

Example: V_{LED} of red LED is 1.7 volts. For a forward current (LED_I) of 20 mA at $V_{CC} = 5$ volts, $R = 330$ ohms. Don't exceed LED_I !!

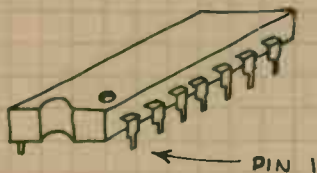
Infrared LEDs are much more powerful than visible LEDs, but their radiation is totally invisible. Use them for object detectors and communicators.

TRANSISTORS

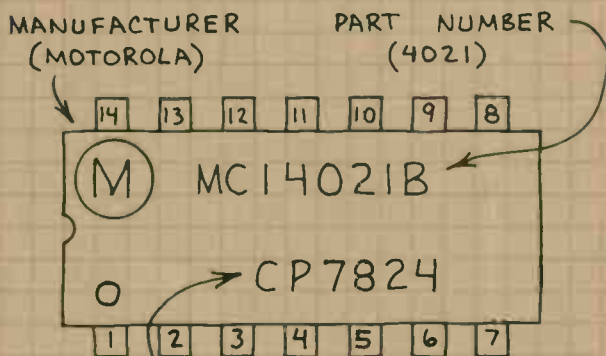
In this notebook, transistors are used as simple amplifiers and switches that turn on LEDs. Any general purpose switching transistors will work.

INTEGRATED CIRCUITS

Since an IC is a complete circuit on a silicon chip, you must observe all operating restrictions. Reversed polarity, excessive supply voltage and sourcing or sinking too much current can destroy an IC. Be sure to pay close attention to the location of the power supply pins! Most ICs are packaged in 8, 14 or 16 pin plastic DIPs (Dual In-line Packages). A notch or circle is near pin 1:



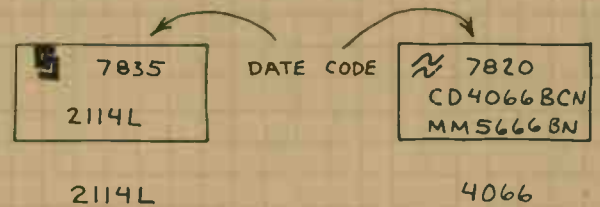
When the IC is right side up, pin 1 is at lower left:



DATE CODE:

78 = 1978
24 = 24th WEEK

Incidentally, a date code may not be present, but other numbers may be...and the date code is not always below the device number:



Store ICs in a plastic cabinet if you can afford one. Or insert them in rows in a styrofoam tray (the kind used for meat in a grocery store). CAUTION: Never store MOS/CMOS ICs in ordinary non-conductive plastic. See p. 12.

CIRCUIT BUILDING

Build your circuits on a solderless breadboard to make changes and find bugs. Then make permanent versions. Radio Shack plastic modular sockets (276-173, etc.) are ideal. They include two socket rows for power supply connections and snap rails for attaching sockets together. Parts and wires can be inserted directly into the holes in the socket.

For permanent circuits, use Radio Shack PC boards. Catalog numbers 276-024 and 276-151 are ideal for simple IC projects. Use larger universal PC boards for more complex projects (276-152 & 276-157). You can cut them into smaller sections with a nibbler tool or small saw.

I prefer to use wrapping wire for IC projects. Insert wrapping sockets in board and make connections with a Wire-Wrapping tool (such as 276-1570). Apply wrapping wire directly to leads of transistors, resistors, etc. and solder in place.



NOTES

DIGITAL INTEGRATED CIRCUITS

INTRODUCTION

DIGITAL ICs ARE 2-STATE DEVICES. ONE STATE IS NEAR 0 VOLTS OR GROUND (LOW OR L) AND THE OTHER IS NEAR THE IC'S SUPPLY VOLTAGE (HIGH OR H). SUBSTITUTE 0 FOR L AND 1 FOR H AND DIGITAL ICs CAN PROCESS INDIVIDUAL BINARY DIGITS (BITS) OR MULTIPLE BIT WORDS. A 4-BIT WORD IS A NIBBLE AND AN 8-BIT WORD IS A BYTE.

THE BINARY SYSTEM

IT'S VERY HELPFUL TO KNOW THE FIRST 16 BINARY NUMBERS. IF 0=L AND 1=H, THEY ARE:

- | | |
|-------------|--------------|
| 0 - L L L L | 8 - H L L L |
| 1 - L L L H | 9 - H L L H |
| 2 - L L H L | 10 - H L H L |
| 3 - L L H H | 11 - H L H H |
| 4 - L H L L | 12 - H H L L |
| 5 - L H L H | 13 - H H L H |
| 6 - L H H L | 14 - H H H L |
| 7 - L H H H | 15 - H H H H |

NOTE THAT L L L L (0) IS AS MUCH A NUMBER AS ANY OTHER NUMBER.

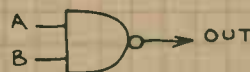
LOGIC GATES

LOGIC CIRCUITS ARE MADE BY INTERCONNECTING TWO OR MORE OF THESE BASIC LOGIC GATES:



AND

A	B	OUT
L	L	L
L	H	L
H	L	L
H	H	H



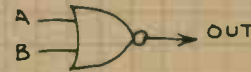
NAND

A	B	OUT
L	L	H
L	H	H
H	L	H
H	H	L



OR

A	B	OUT
L	L	L
L	H	H
H	L	H
H	H	H



NOR

A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	L



EXCLUSIVE-OR

A	B	OUT
L	L	L
L	H	H
H	L	H
H	H	L



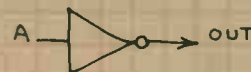
EXCLUSIVE-NOR

A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	H



YES (BUFFER)

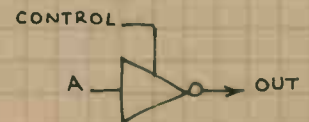
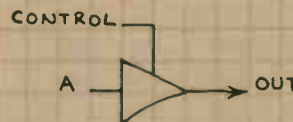
A	OUT
L	L
H	H



NOT (INVERTER)

A	OUT
L	H
H	L

3-STATE LOGIC



CONTROL	A	OUT
L	L	L
L	H	H
H	X	HI-Z

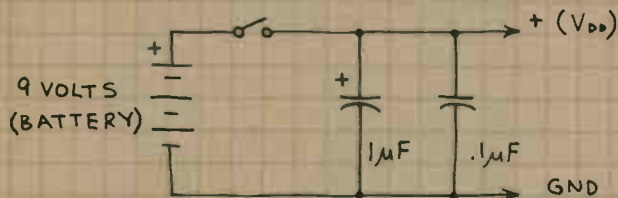
CONTROL	A	OUT
L	L	H
L	H	L
H	X	HI-Z

HI-Z: OUTPUT IN HIGH IMPEDANCE STATE.

MOS/CMOS INTEGRATED CIRCUITS

INTRODUCTION

MOS ICs CAN CONTAIN MORE FUNCTIONS PER CHIP THAN TTL/LS AND ARE VERY EASY TO USE. MOST CHIPS IN THIS SECTION ARE CMOS (COMPLEMENTARY MOS). THEY CONSUME VERY LITTLE POWER AND OPERATE OVER A +3-15 VOLT RANGE. CMOS CAN BE POWERED BY THIS:



OR YOU CAN USE A LINE POWERED SUPPLY MADE FROM A 7805/7812/7815. SEE THE LINEAR SECTION.

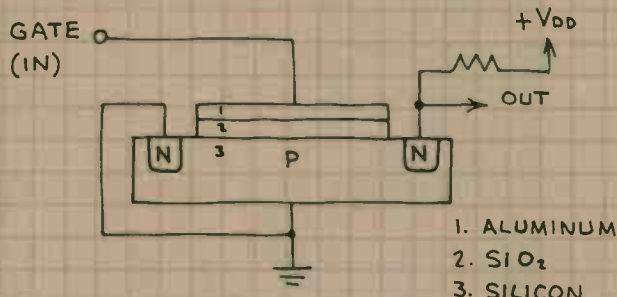
INCIDENTALLY, YOU CAN POWER A CMOS CIRCUIT FROM TWO SERIES CONNECTED PENLIGHT CELLS, BUT A 9-12 VOLT SUPPLY WILL GIVE BETTER PERFORMANCE.

OPERATING REQUIREMENTS

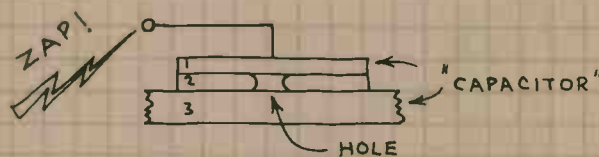
1. THE INPUT VOLTAGE SHOULD NOT EXCEED V_{DD} ! (TWO EXCEPTIONS: THE 4049 AND 4050.)
2. AVOID, IF POSSIBLE, SLOWLY RISING AND FALLING INPUT SIGNALS SINCE THEY CAN CAUSE EXCESSIVE POWER CONSUMPTION. RISETIMES FASTER THAN 15 MICROSECONDS ARE BEST.
3. ALL UNUSED INPUTS MUST BE CONNECTED TO V_{DD} (+) OR V_{SS} (GND). OTHERWISE ERRATIC CHIP BEHAVIOR AND EXCESSIVE CURRENT CONSUMPTION WILL OCCUR.
4. NEVER CONNECT AN INPUT SIGNAL TO A CMOS CIRCUIT WHEN THE POWER IS OFF.
5. OBSERVE HANDLING PRECAUTIONS.

HANDLING PRECAUTIONS

A CMOS CHIP IS MADE FROM PMOS AND NMOS TRANSISTORS. MOS MEANS METAL-OXIDE-SILICON (OR SEMICONDUCTOR). P AND N REFER TO POSITIVE AND NEGATIVE CHANNEL MOS TRANSISTORS. AN NMOS TRANSISTOR LOOKS LIKE THIS:



A PMOS TRANSISTOR IS IDENTICAL EXCEPT THE P AND N REGIONS ARE EXCHANGED. THE SiO₂ (SILICON DIOXIDE) LAYER IS A GLASSY FILM THAT SEPARATES AND INSULATES THE METAL GATE FROM THE SILICON SUBSTRATE. THIS FILM IS WHY A MOS TRANSISTOR OR IC PLACES PRACTICALLY NO LOAD ON THE SOURCE OF AN INPUT SIGNAL. THE FILM IS VERY THIN AND IS THEREFORE EASILY PUNCTURED BY STATIC ELECTRICITY:

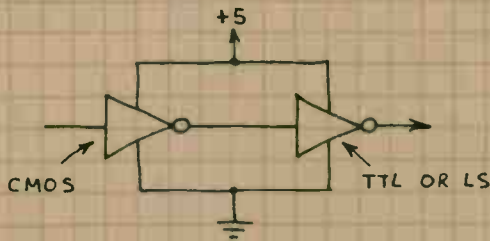
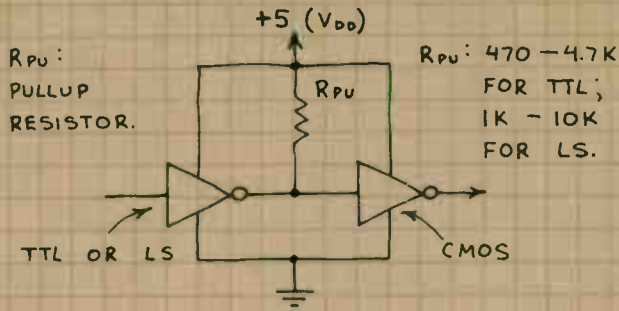


PREVENT STATIC DISCHARGE!

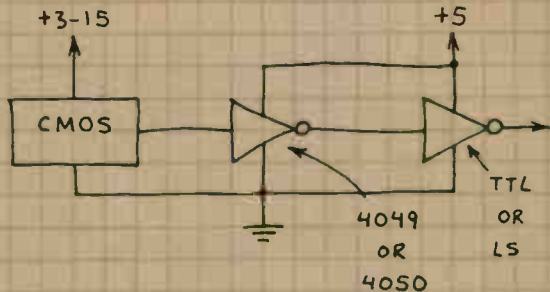
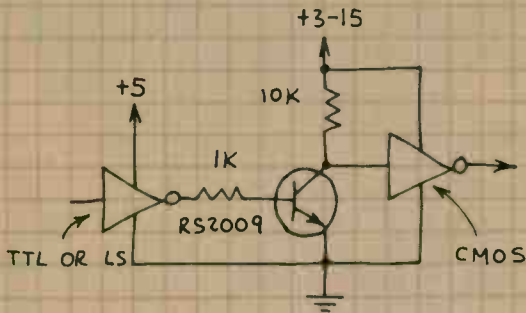
1. NEVER STORE MOS IC'S IN NONCONDUCTIVE PLASTIC "SNOW," TRAYS, BAGS OR FOAM.
2. PLACE MOS IC'S PINS DOWN ON AN ALUMINUM FOIL SHEET OR TRAY WHEN THEY ARE NOT IN A CIRCUIT OR STORED IN CONDUCTIVE FOAM.
3. USE A BATTERY POWERED IRON TO SOLDER MOS CHIPS. DO NOT USE AN AC POWERED IRON.

INTERFACING CMOS

1. IF SUPPLY VOLTAGES ARE EQUAL:

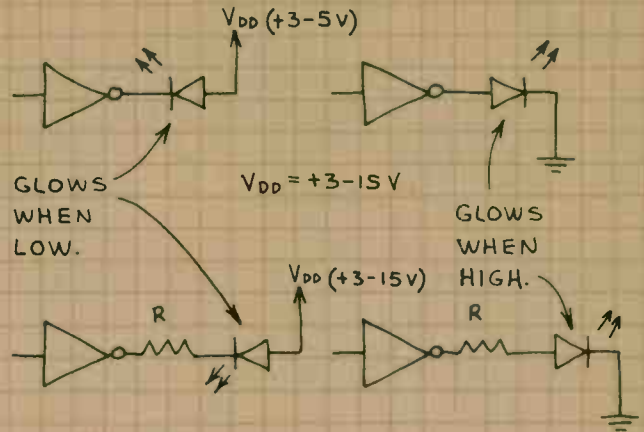


2. DIFFERENT SUPPLY VOLTAGES:



NOTE THAT CMOS MUST BE POWERED BY AT LEAST 5 VOLTS WHEN CMOS IS INTERFACED WITH TTL. OTHERWISE THE CMOS INPUT WILL EXCEED V_{DD} .

3. CMOS LED DRIVERS:

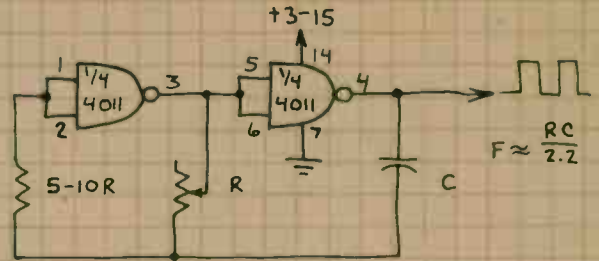


$$R = \frac{V_{DD} - 1.7}{.01} \quad (\text{FOR } 10 \text{ mA LED CURRENT})$$

USE 1000 OHMS FOR MOST APPLICATIONS.

CMOS LOGIC CLOCK

MANY CIRCUITS IN THIS SECTION REQUIRE A SOURCE OF PULSES. HERE'S A SIMPLE CMOS CLOCK:



TYPICAL VALUES: $R=100K$, $C=0.01-0.1\mu F$

OK TO USE 4049... BUT MUCH MORE CURRENT WILL BE REQUIRED.

CMOS TROUBLESHOOTING

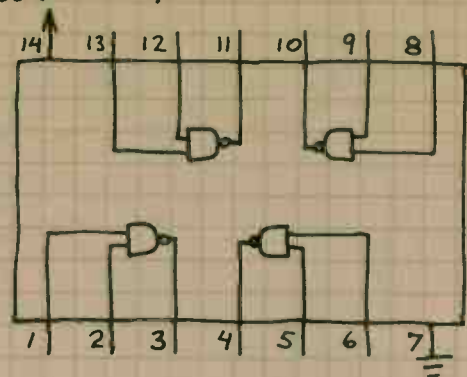
1. DO ALL INPUTS GO SOMEWHERE?
2. ARE ALL IC PINS INSERTED INTO THE BOARD OR SOCKET?
3. IS THE IC HOT? IF SO, SEE 1-2 ABOVE AND MAKE SURE THE OUTPUT IS NOT OVERLOADED.
4. DOES THE CIRCUIT OBEY ALL CMOS OPERATING REQUIREMENTS?
5. HAVE YOU FORGOTTEN A CONNECTION?

QUAD NAND GATE

4011

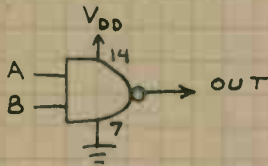
THE BASIC CMOS BUILDING BLOCK CHIP. MORE APPLICATIONS THAN TTL 7400/74LS00 QUAD NAND GATE.

$V_{DD} (+3-15V)$



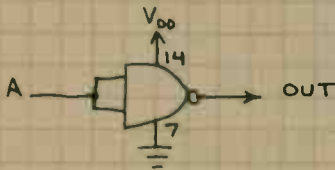
IMPORTANT: CONNECT ALL UNUSED INPUTS TO PIN 7 OR 14!

CONTROL GATE



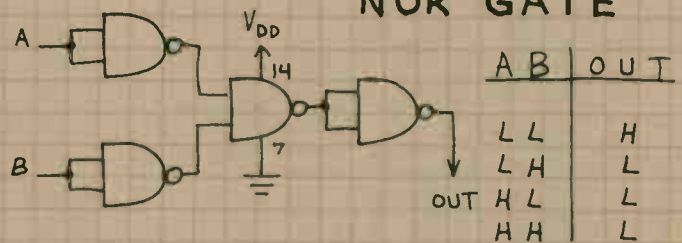
A	B	OUT
L	L	H
L	H	H
H	L	H
H	H	L

INVERTER



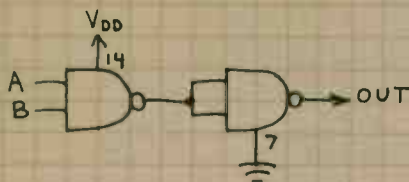
A	OUT
L	H
H	L

NOR GATE



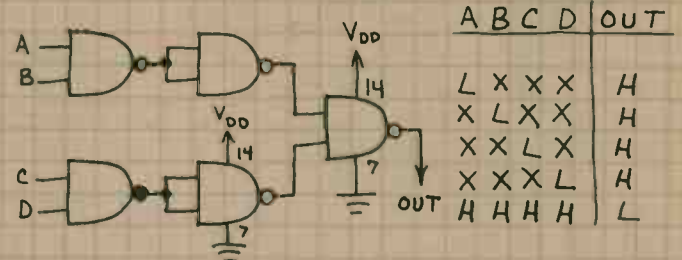
A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	L

AND GATE



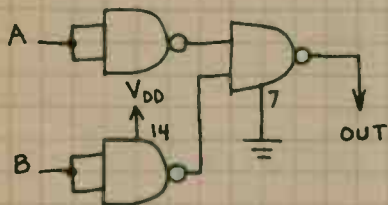
A	B	OUT
L	L	L
L	H	L
H	L	L
H	H	H

4-INPUT NAND GATE



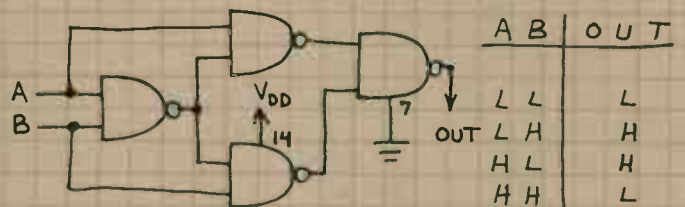
A	B	C	D	OUT
L	L	X	X	H
X	L	X	X	H
X	X	L	X	H
X	X	X	L	H
H	H	H	H	L

OR GATE



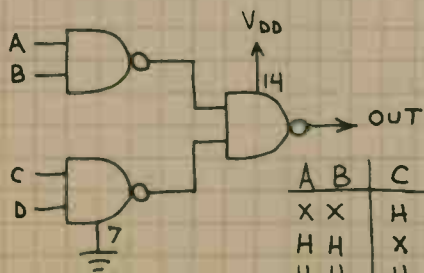
A	B	OUT
L	L	L
L	H	H
H	L	H
H	H	H

EXCLUSIVE-OR GATE



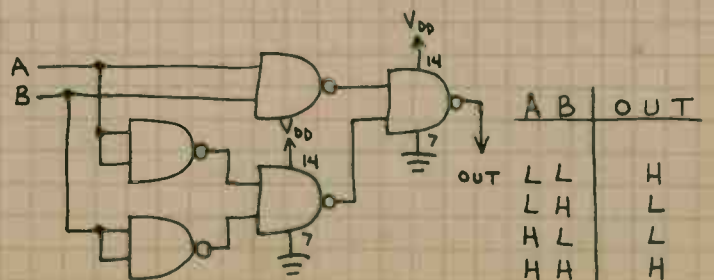
A	B	OUT
L	L	L
L	H	H
H	L	H
H	H	L

AND-OR GATE



A	B	C	D	OUT
X	X	H	H	H
H	H	X	X	H
H	H	H	H	H

EXCLUSIVE-NOR GATE

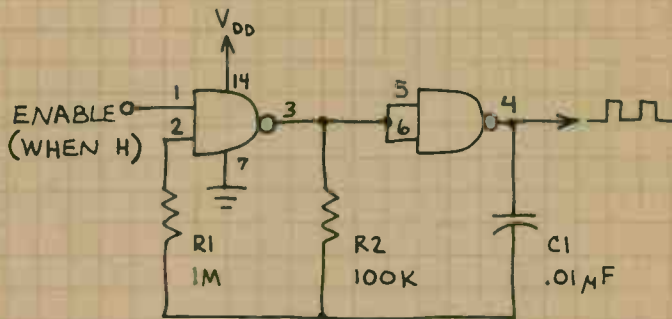


A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	H

QUAD NAND GATE (CONTINUED)

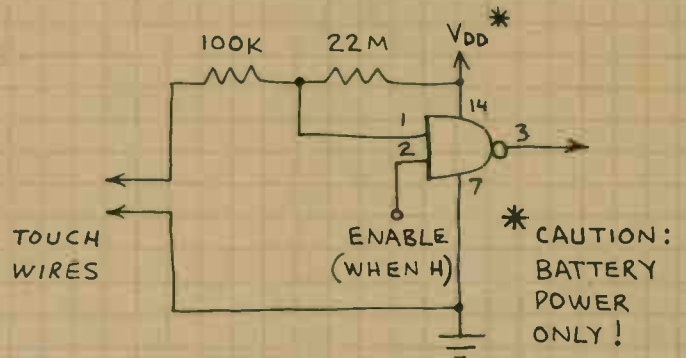
4011

GATED OSCILLATOR



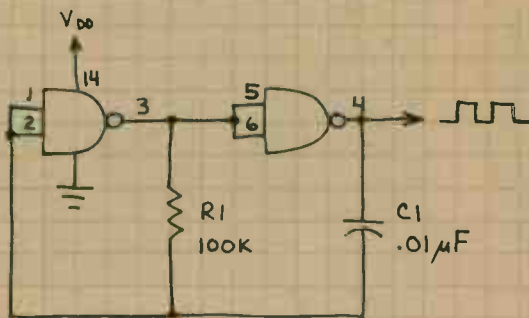
OUTPUT FREQUENCY IS 1 KHz SQUARE WAVE.

TOUCH SWITCH



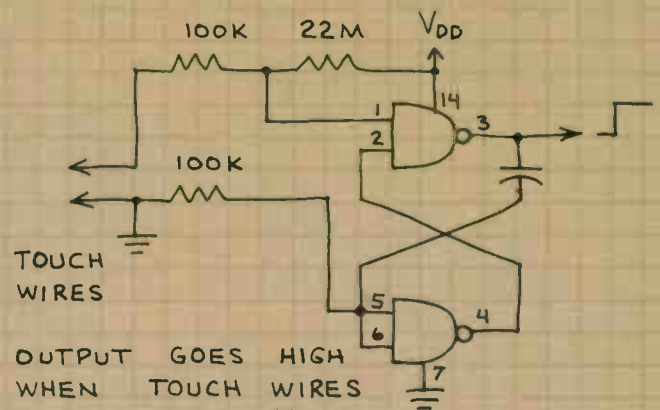
OUTPUT GOES HIGH WHEN TOUCH WIRES ARE BRIDGED BY A FINGER.

SIMPLE OSCILLATOR



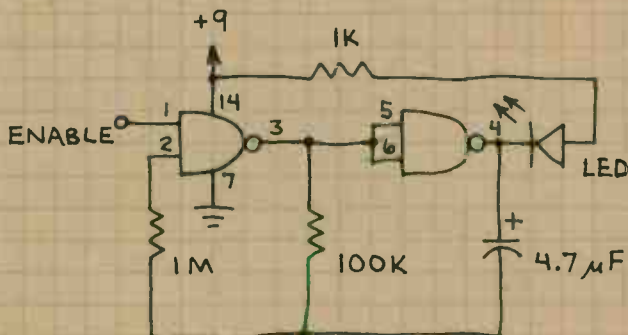
OUTPUT NOT AS SYMMETRICAL AS ABOVE CIRCUIT.

ONE-SHOT TOUCH SWITCH



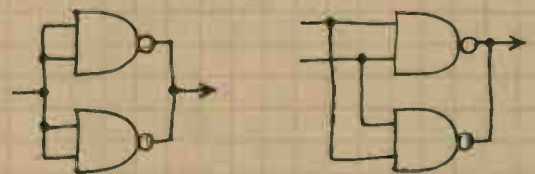
OUTPUT GOES HIGH WHEN TOUCH WIRES ARE BRIDGED BY A FINGER. OUTPUT THEN RETURNS LOW AFTER ABOUT 1 SECOND.

GATED FLASHER



LED FLASHES 1-2 Hz WHEN ENABLE IS HIGH. LED STAYS ON WHEN ENABLE IS LOW.

INCREASED OUTPUT DRIVE



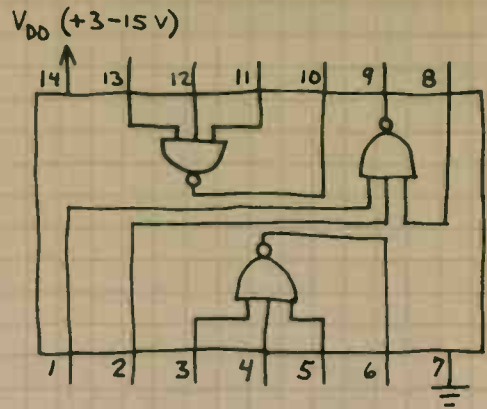
INVERTER

NAND GATE

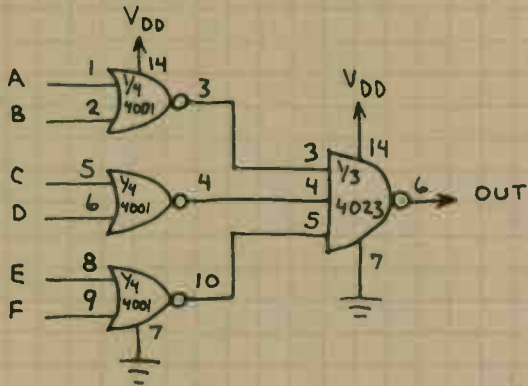
USE THIS METHOD TO INCREASE CURRENT THE 4011 CAN SOURCE OR SINK. OK TO ADD MORE GATES.

TRIPLE 3-INPUT NAND GATE 4023

HANDY FOR MAKING CUSTOM DECODERS,
CONVERTERS AND MULTIPLE INPUT GATES.

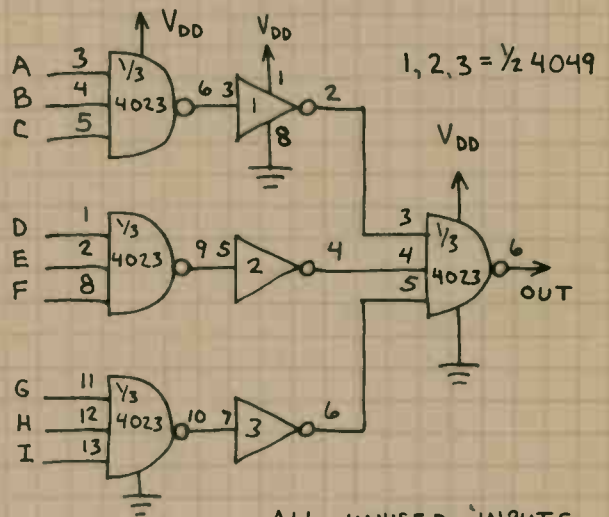


6-INPUT OR GATE



IMPORTANT: CONNECT ALL UNUSED
INPUTS TO PIN 7 OR 14.

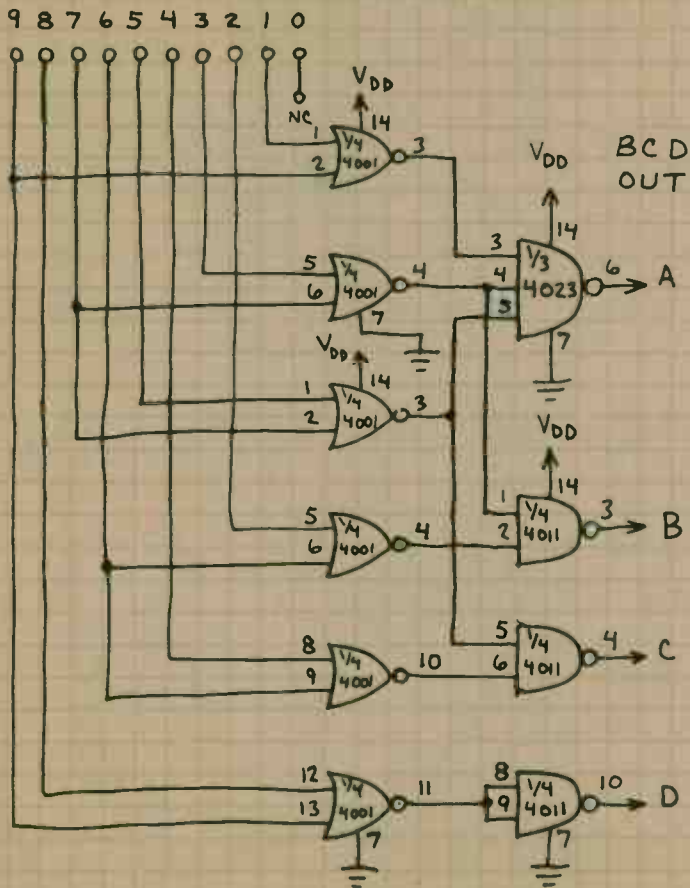
9-INPUT NAND GATE



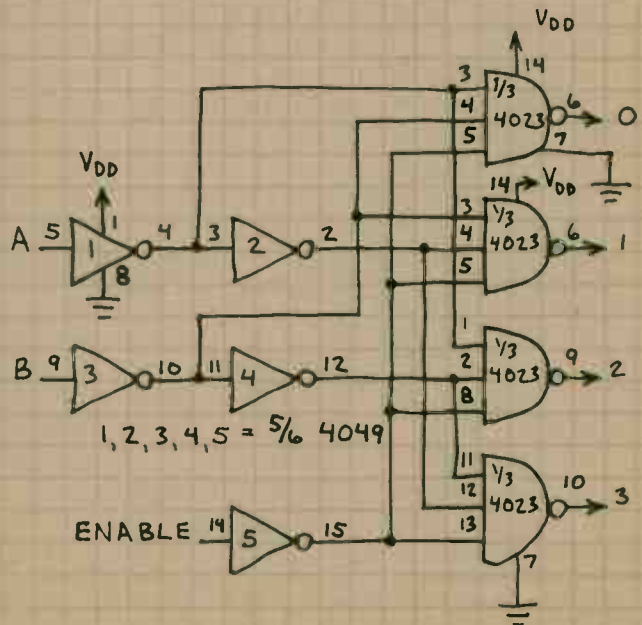
ALL UNUSED INPUTS
MUST BE GROUNDED.

DECIMAL-TO-BCD CONVERTER

DECIMAL IN (SELECTED DIGIT H,
ALL OTHERS L.)

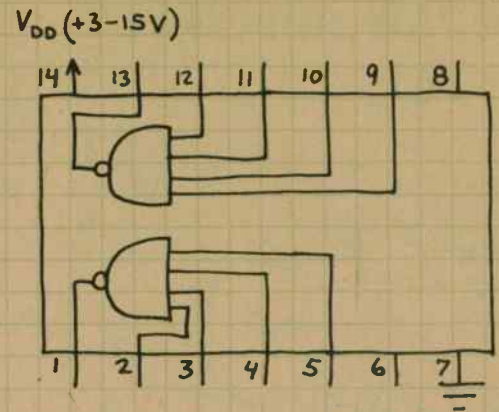


1-OF-4 DECODER

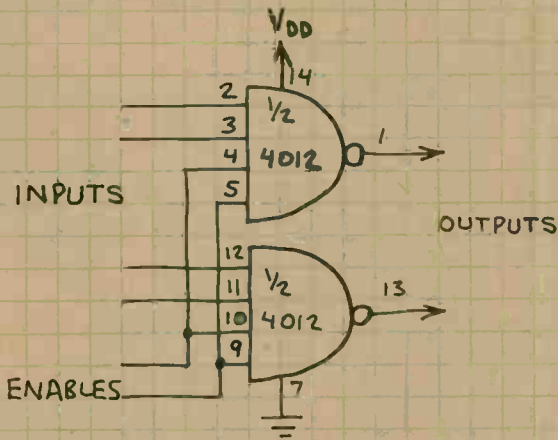


DUAL 4-INPUT NAND GATE 4012

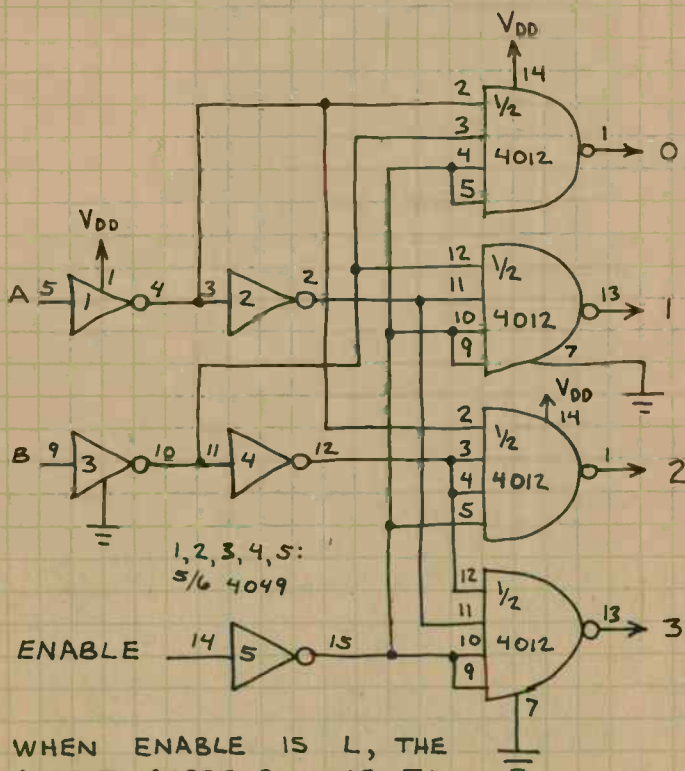
VERY USEFUL IN MAKING DECODERS. ALSO CAN BE USED TO ADD ONE OR MORE ENABLE INPUTS TO VARIOUS CIRCUITS.



ENABLE INPUT



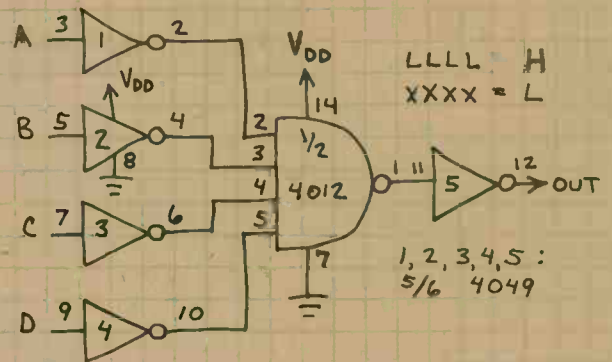
1-OF-4 DECODER



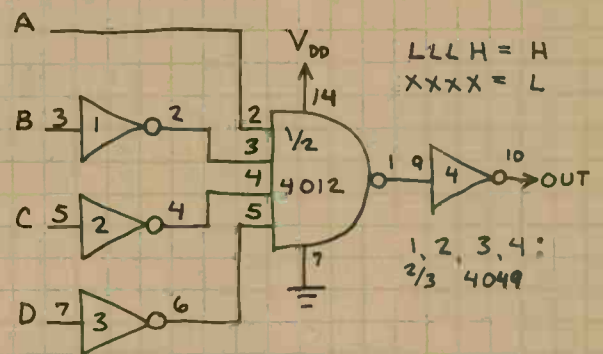
WHEN ENABLE IS L, THE OUTPUT CORRESPONDING TO THE BA BINARY INPUTS GOES LOW. ALL OTHER OUTPUTS GO HIGH WHEN ENABLE IS H.

BCD DECODERS

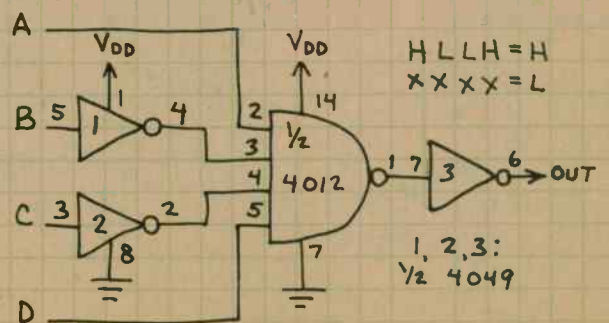
DECIMAL 0



DECIMAL 1



DECIMAL 9

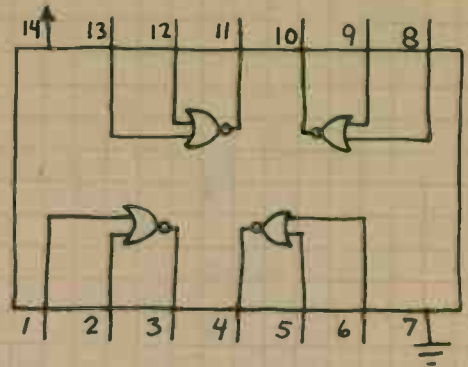


QUAD NOR GATE

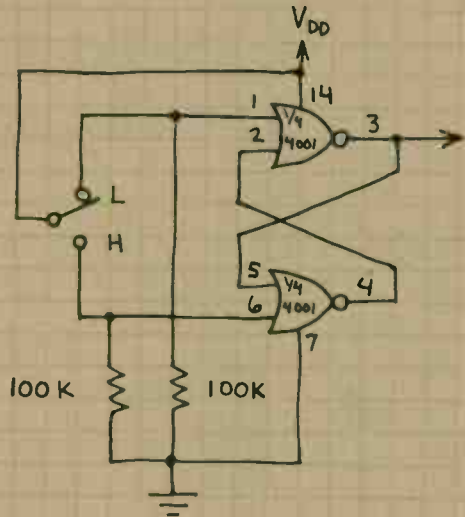
4001

AN IMPORTANT CMOS BUILDING BLOCK CHIP. ITS HIGH IMPEDANCE INPUT MAKES POSSIBLE MORE APPLICATIONS THAN THE TTL 7402/74LS02 QUAD NOR GATE.

V_{DD} (+3-15V)

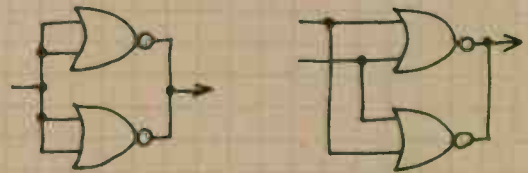


BOUNCELESS SWITCH



IMPORTANT: CONNECT ALL UNUSED INPUTS TO PIN 7 OR 14.

INCREASED OUTPUT DRIVE

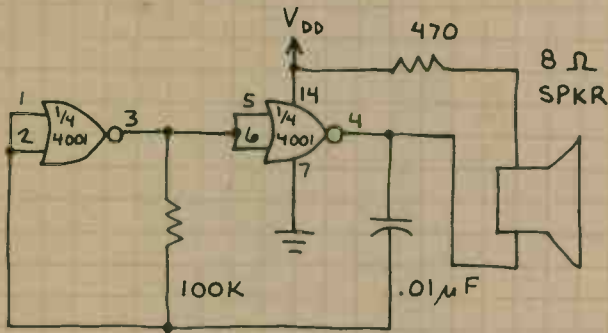


INVERTER

NOR GATE

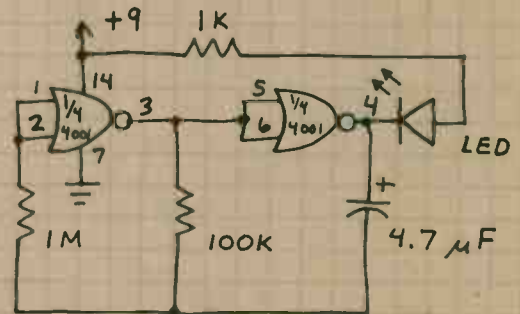
USE THIS METHOD TO INCREASE CURRENT THE 4001 CAN SOURCE OR SINK. OK TO ADD MORE GATES.

GATED TONE SOURCE



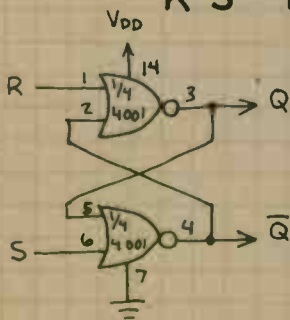
TONE FREQUENCY IS ABOUT 1KHz.

LED FLASHER



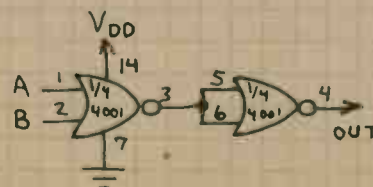
LED FLASHES 1-2 TIMES/SECOND.

RS LATCH



R	S	Q	\bar{Q}
L	L	NO CHANGE	
L	H	H	L
H	L	L	H
H	H	NOT ALLOWED	

OR GATE

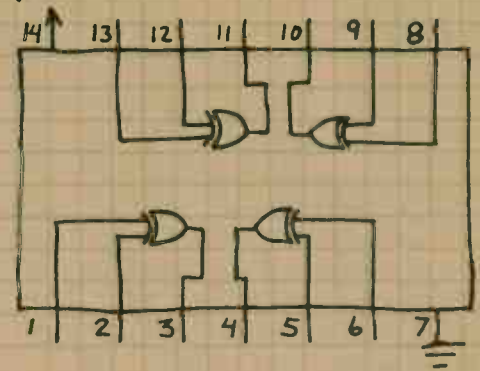


A	B	OUT
L	L	L
L	H	H
H	L	H
H	H	H

QUAD EXCLUSIVE-OR GATE 4070

V_{DD} (+3-15V)

THE OUTPUT OF EACH GATE GOES LOW WHEN BOTH INPUTS ARE EQUAL. THE OUTPUT GOES HIGH IF THE INPUTS ARE UNEQUAL. MANY APPLICATIONS INCLUDING BINARY ADDITION, COMPARING BINARY WORDS AND PHASE DETECTION.

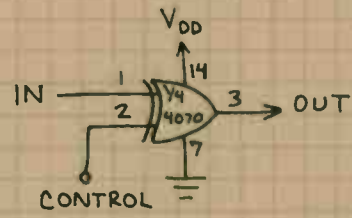


IMPORTANT: CONNECT UNUSED INPUTS TO PIN 7 OR 14.

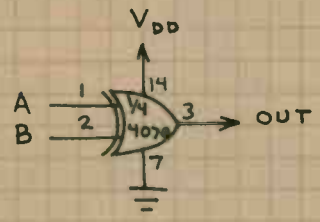
CONTROLLED INVERTER

1-BIT COMPARATOR

THIS CIRCUIT IS ALSO A HALF-ADDER WITHOUT A CARRY OUTPUT.



L: IN = OUT
H: IN = NOT OUT

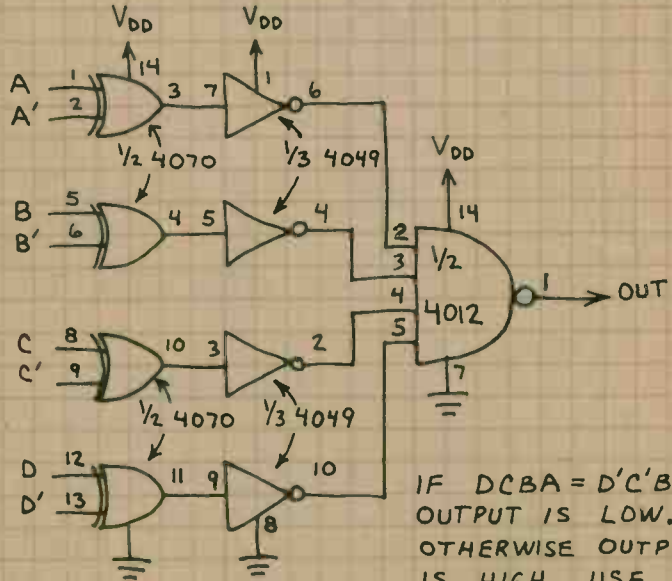
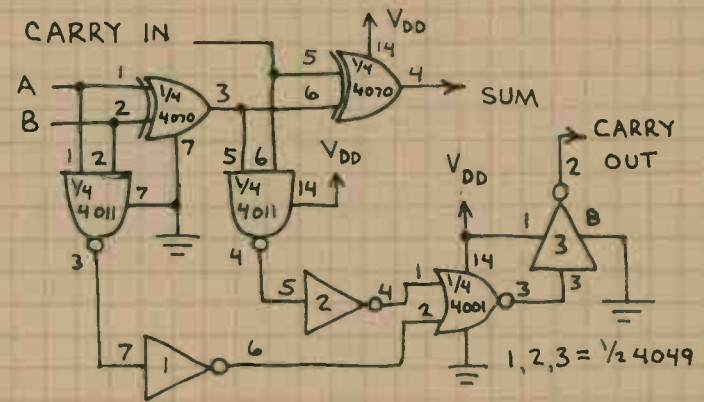


A	B	OUT
L	L	L
L	H	H
H	L	H
H	H	L

BINARY FULL ADDER

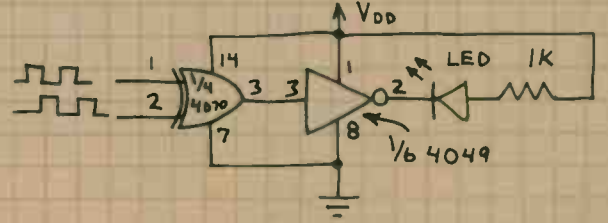
4-BIT COMPARATOR

DETERMINES IF TWO 4-BIT WORDS ARE EQUAL.



IF DCBA = D'C'B'A' OUTPUT IS LOW. OTHERWISE OUTPUT IS HIGH. USE SECOND HALF OF 4012 AS INVERTER TO REVERSE OPERATION.

PHASE DETECTOR

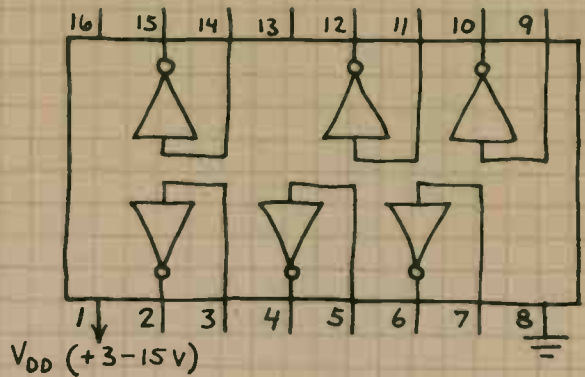


LED STOPS GLOWING WHEN THE INPUT FREQUENCIES ARE EQUAL.

HEX INVERTING BUFFER

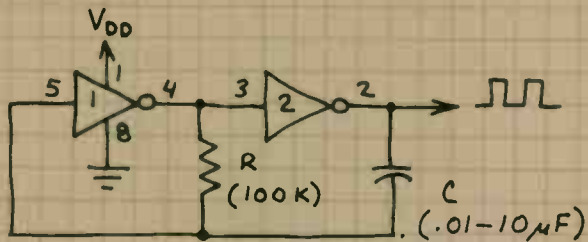
4049

IN ADDITION TO STANDARD LOGIC AND CMOS TO TTL INTERFACING, OFTEN USED IN OSCILLATORS AND PULSE GENERATORS. FOR LOW CURRENT APPLICATIONS, USE 4011 CONNECTED AS INVERTER. (OK TO USE 4011 FOR CIRCUITS ON THIS PAGE.)



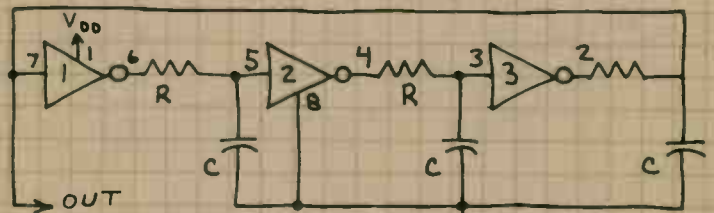
NOTE UNUSUAL LOCATION OF POWER SUPPLY PINS.

CLOCK PULSE GENERATOR



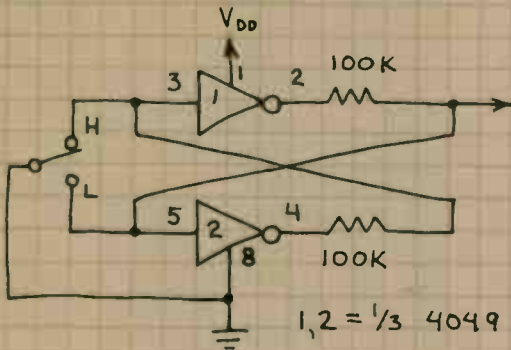
$1, 2 = \frac{1}{3}$ 4049 PULSE RATE = $\frac{1}{1.4RC}$

PHASE SHIFT OSCILLATOR



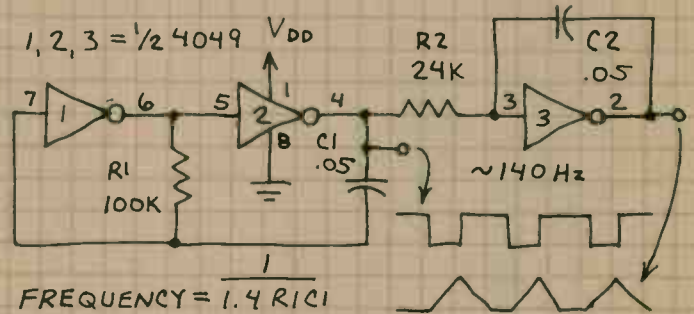
OUTPUT FREQUENCY = $\frac{1}{3.3RC}$ $1, 2, 3 = \frac{1}{2}$ 4049

BOUNCELESS SWITCH



$1, 2 = \frac{1}{3}$ 4049

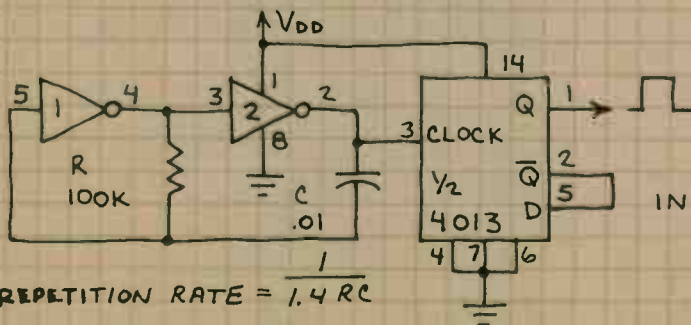
TRIANGLE WAVE SOURCE



FREQUENCY = $\frac{1}{1.4RC1}$

~ 140 Hz

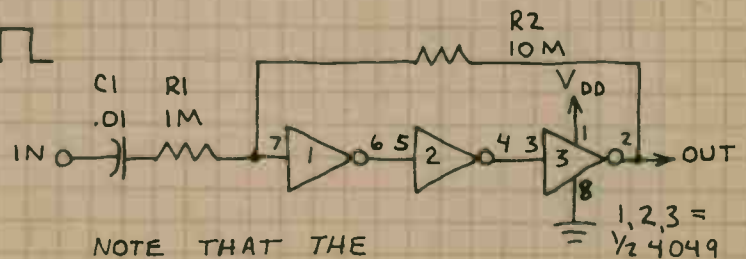
SQUARE WAVE GENERATOR



REPETITION RATE = $\frac{1}{1.4RC}$

$1, 2 = \frac{1}{3}$ 4049

LINEAR I/O AMPLIFIER



NOTE THAT THE INVERTERS ARE USED IN A LINEAR MODE. GAIN = $R2/R1$.

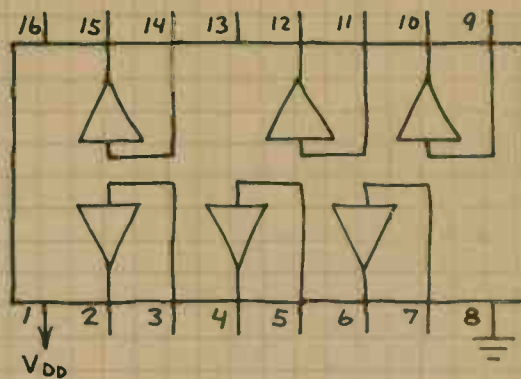
$1, 2, 3 = \frac{1}{2}$ 4049

HEX NON-INVERTING BUFFER

4050

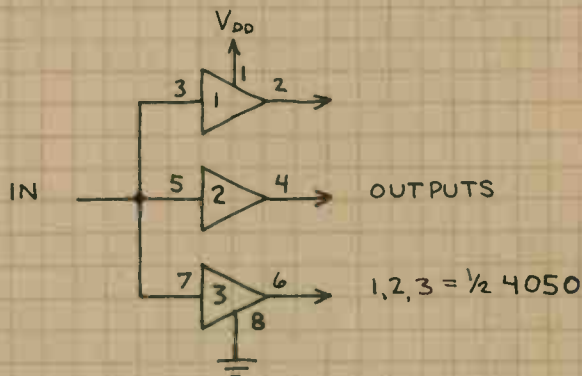
PRIMARYLY INTENDED FOR INTERFACING CMOS TO TTL. SUPPLIES MORE CURRENT THAN STANDARD CMOS.

IMPORTANT: ALL UNUSED INPUTS MUST GO TO PIN 1 OR 8.

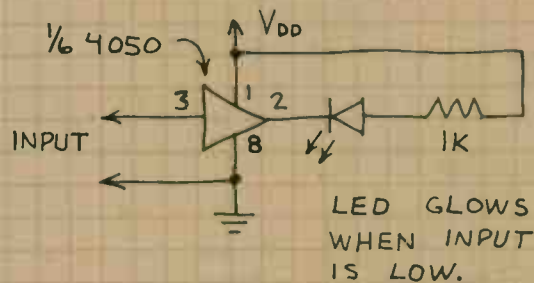


NOTE UNUSUAL LOCATION OF POWER SUPPLY PINS.

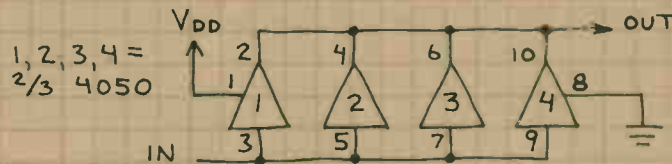
OUTPUT EXPANDER



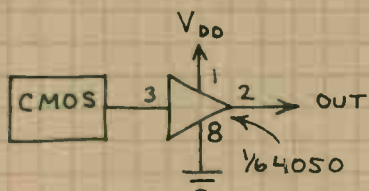
LOGIC PROBE



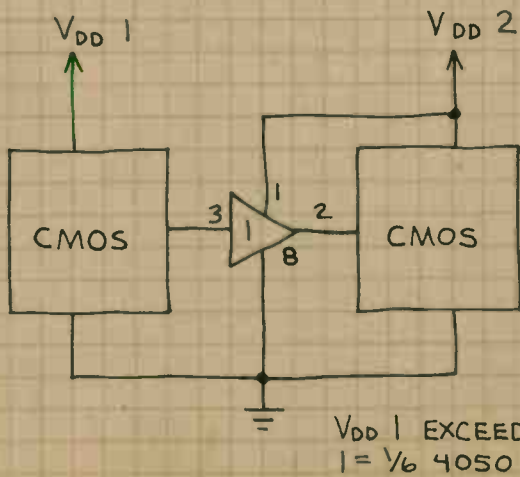
INCREASED OUTPUT DRIVE



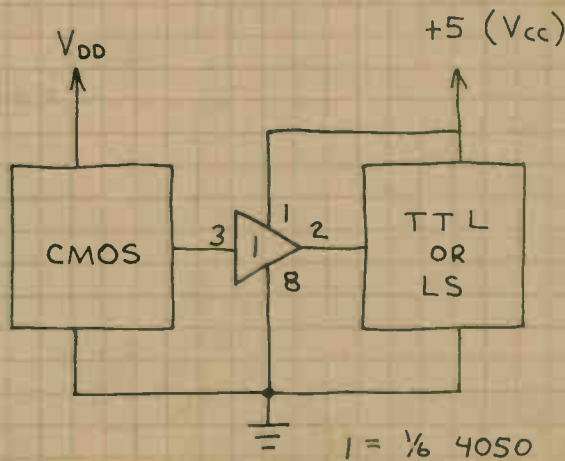
OUTPUT BUFFER



CMOS TO CMOS AT LOWER V_{DD}



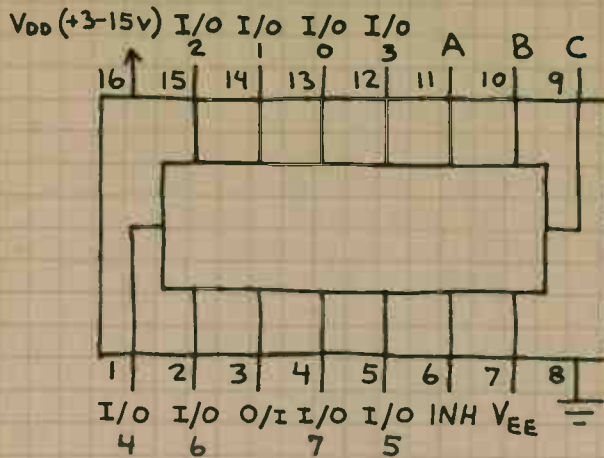
CMOS TO TTL/LS AT LOWER V_{CC}



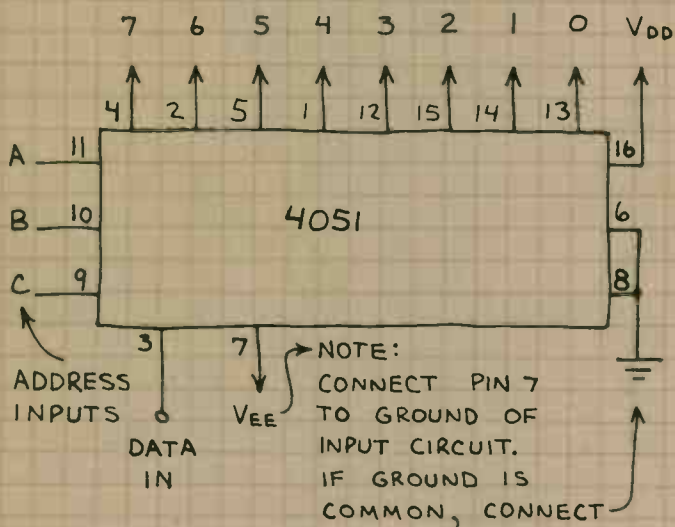
ANALOG MULTIPLEXER

4051

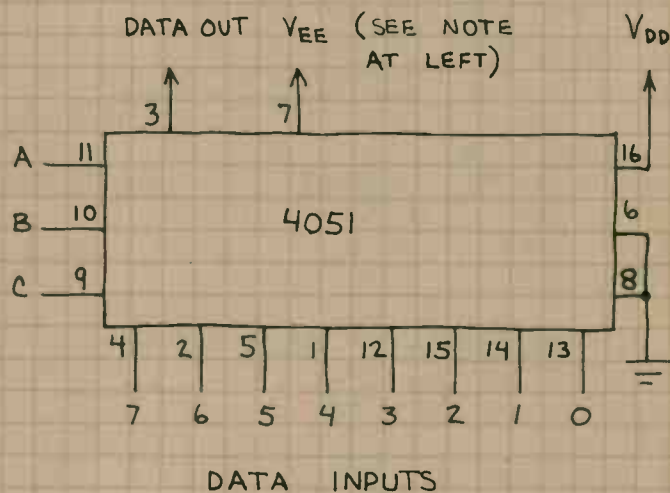
INPUT ADDRESS AT CBA SELECTS 1-OF-8 ANALOG SWITCHES. SIGNAL AT SELECTED SWITCH I/O (INPUT/OUTPUT) IS THEN APPLIED TO COMMON O/I (OUTPUT/INPUT). THE INPUT SIGNAL MUST NOT EXCEED V_{DD} . THE INHIBIT (INH) INPUT SHOULD BE GROUND FOR NORMAL OPERATION. ALL SWITCHES ARE OPEN WHEN INH IS HIGH.



1-OF-8 MULTIPLEXER

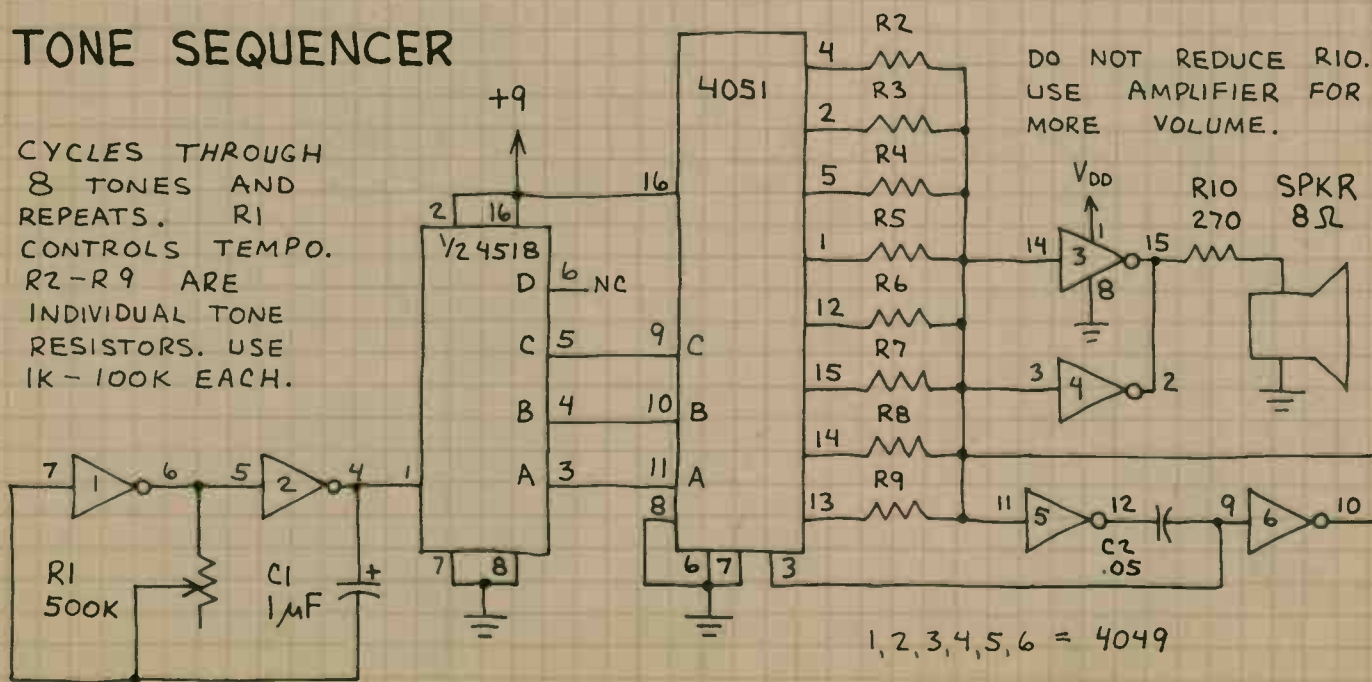


1-OF-8 DATA SELECTOR (DEMULTIPLEXER)



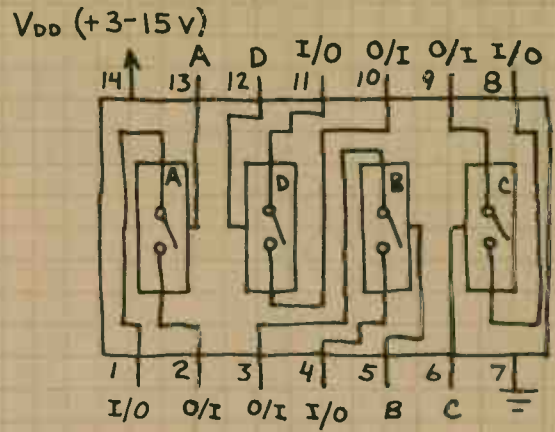
TONE SEQUENCER

CYCLES THROUGH 8 TONES AND REPEATS. R1 CONTROLS TEMPO. R2-R9 ARE INDIVIDUAL TONE RESISTORS. USE 1K-100K EACH.

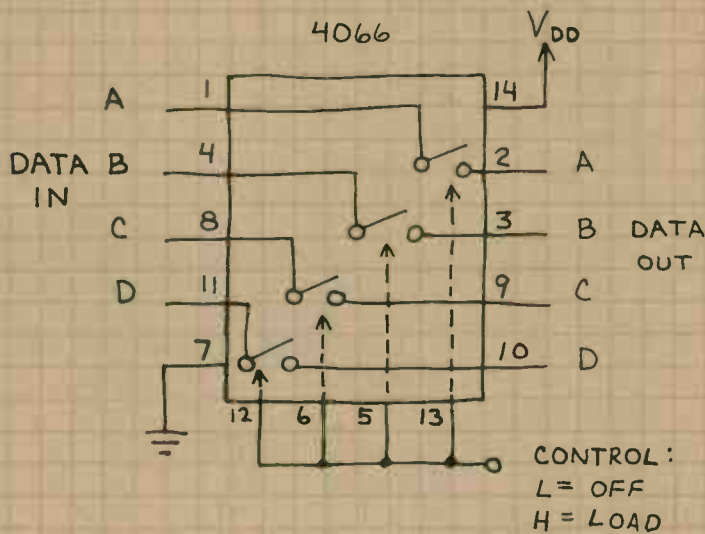


QUAD BILATERAL SWITCH 4066

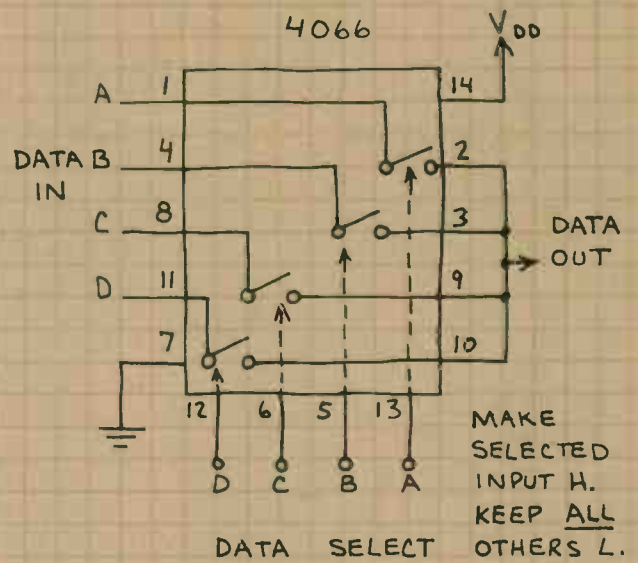
ONE OF THE MOST VERSATILE CMOS CHIPS. PINS A, B, C AND D CONTROL FOUR ANALOG SWITCHES. CLOSE A SWITCH BY CONNECTING ITS CONTROL PIN TO V_{DD} . ON RESISTANCE = 80-250 OHMS. OPEN A SWITCH BY CONNECTING ITS CONTROL PIN TO GROUND (PIN 7). OFF RESISTANCE = 10^9 OHMS. I/O (INPUT/OUTPUT) AND O/I PINS ARE REVERSIBLE.



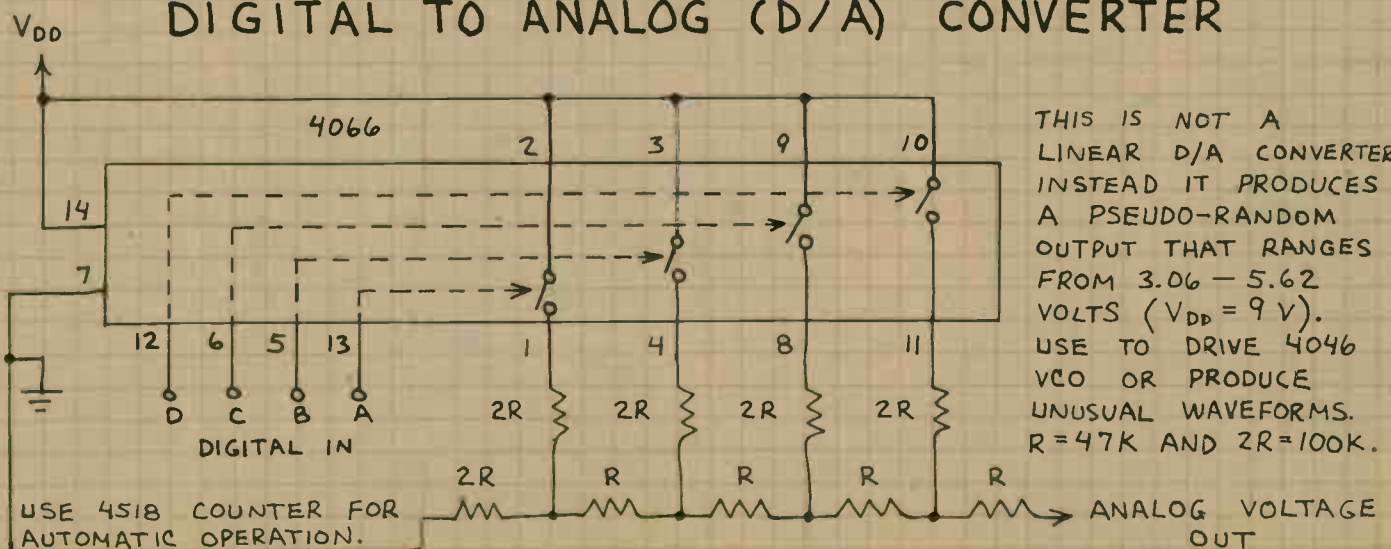
DATA BUS CONTROL



DATA SELECTOR



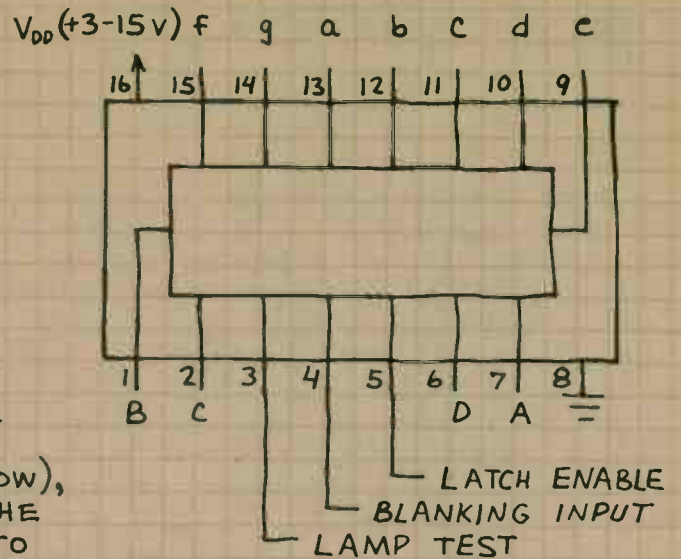
DIGITAL TO ANALOG (D/A) CONVERTER



THIS IS NOT A LINEAR D/A CONVERTER. INSTEAD IT PRODUCES A PSEUDO-RANDOM OUTPUT THAT RANGES FROM 3.06 - 5.62 VOLTS ($V_{DD} = 9V$). USE TO DRIVE 4046 VCO OR PRODUCE UNUSUAL WAVEFORMS. $R = 47K$ AND $2R = 100K$.

BCD-TO-7-SEGMENT LATCH/DECODER/DRIVER 4511

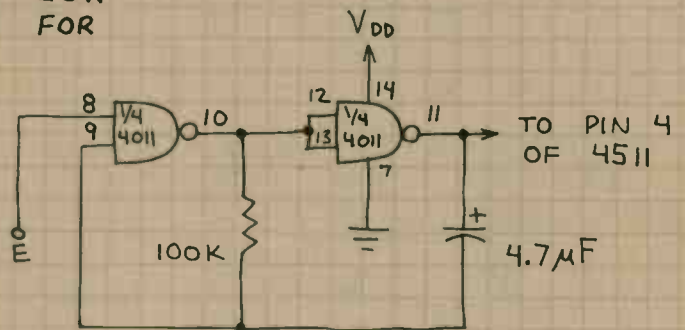
CONVERTS BCD DATA INTO FORMAT SUITABLE FOR PRODUCING DECIMAL DIGITS ON 7-SEGMENT LED DISPLAY. INCLUDES BUILT-IN 4-BIT LATCH TO STORE DATA TO BE DISPLAYED (WHEN PIN 5 IS HIGH). WHEN LATCH IS NOT USED (PINS 5 LOW), THE 7-SEGMENT OUTPUTS FOLLOW THE BCD INPUTS. MAKE PIN 4 LOW TO EXTINGUISH THE DISPLAY AND HIGH FOR NORMAL OPERATION. MAKE PIN 3 LOW TO TEST THE DISPLAY AND HIGH FOR NORMAL OPERATION.



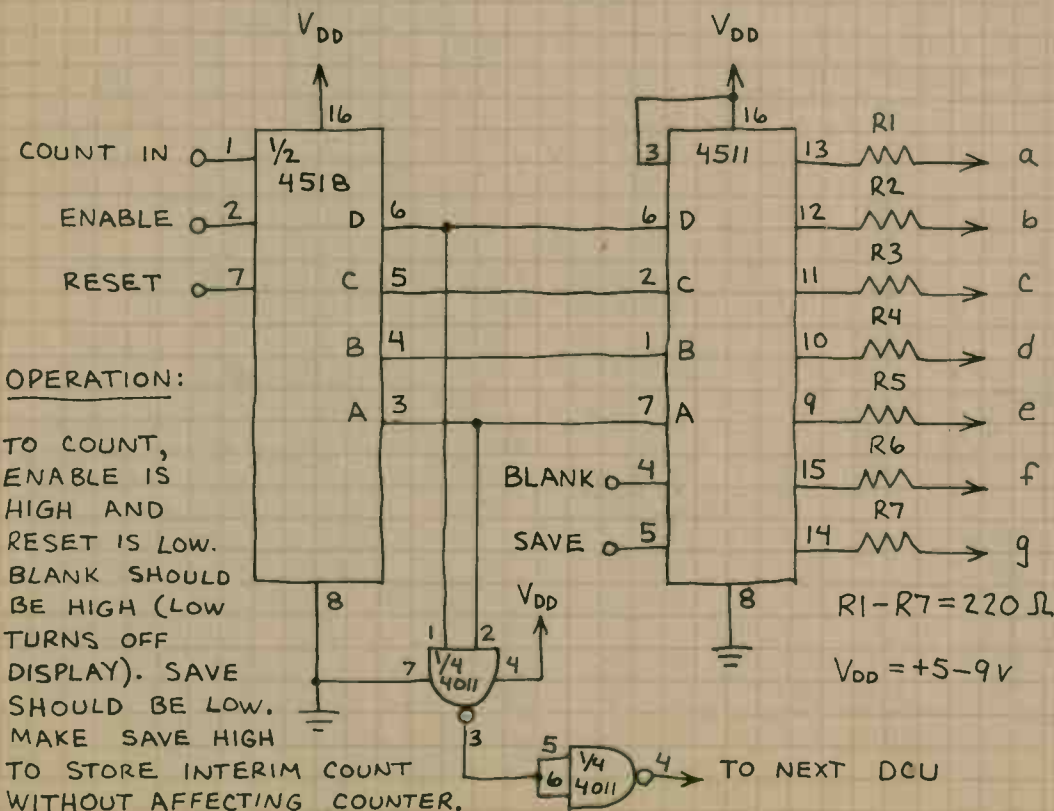
DISPLAY FLASHER

DISPLAY FLASHES ONCE PER SECOND WHEN E IS HIGH.

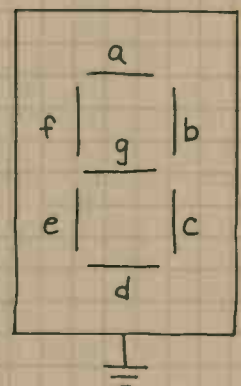
E	DISPLAY
H	FLASHES
L	OFF



DECIMAL COUNTING UNIT (DCU)



IMPORTANT: ALL INPUTS MUST GO SOMEWHERE!



COMMON CATHODE LED DISPLAY

OPERATION:

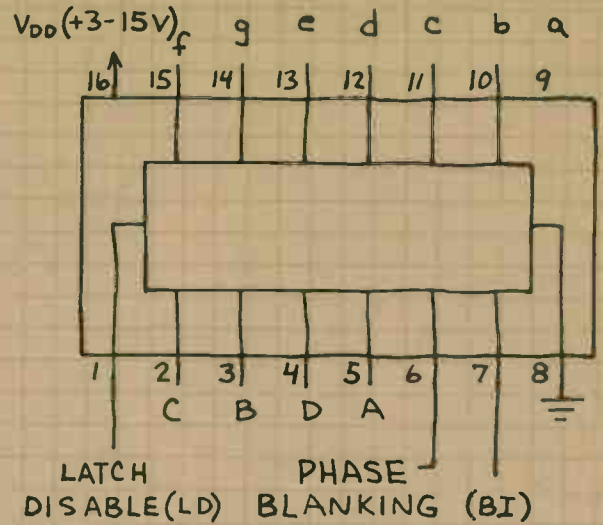
TO COUNT, ENABLE IS HIGH AND RESET IS LOW. BLANK SHOULD BE HIGH (LOW TURNS OFF DISPLAY). SAVE SHOULD BE LOW. MAKE SAVE HIGH TO STORE INTERIM COUNT WITHOUT AFFECTING COUNTER.

R1-R7 = 220 Ω

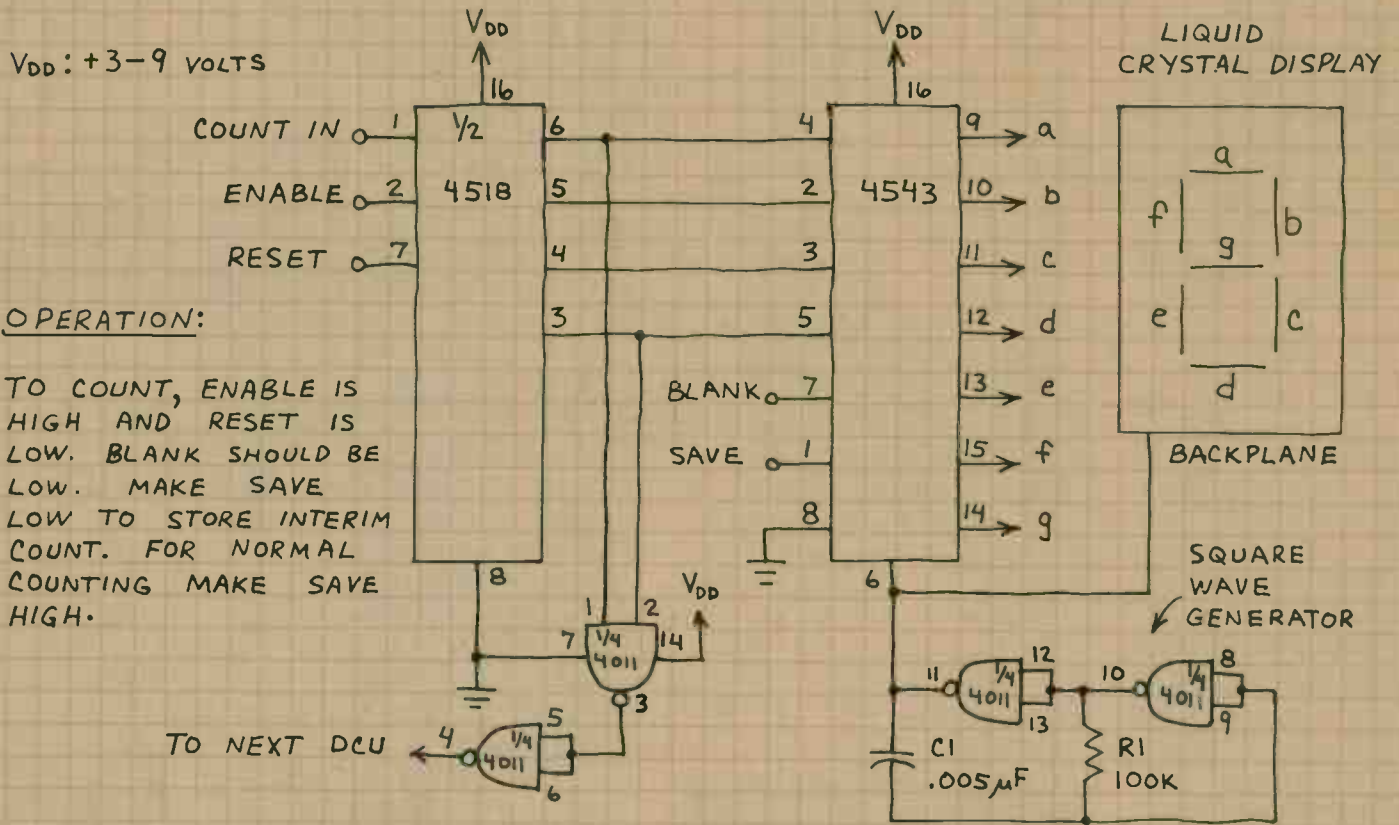
V_{DD} = +5-9V

BCD-TO-7-SEGMENT LATCH/DECODER/DRIVER 4543 (14543)

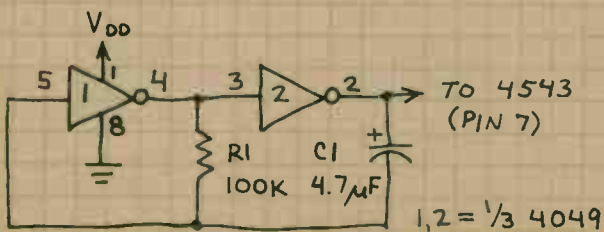
DESIGNED TO DRIVE LIQUID CRYSTAL (LC) DISPLAYS BUT WILL DRIVE OTHER DISPLAYS ALSO. INCLUDES BUILT-IN 4-BIT LATCH TO STORE DATA TO BE DISPLAYED (WHEN PIN 1 IS LOW). WHEN LATCH IS NOT USED (PIN 1 HIGH), THE 7-SEGMENT OUTPUTS FOLLOW THE BCD INPUTS. MAKE PIN 7 HIGH TO BLANK THE DISPLAY AND LOW FOR NORMAL OPERATION.



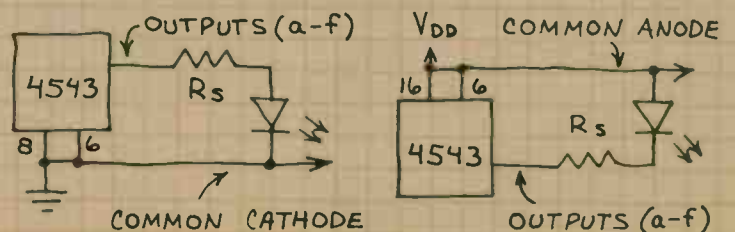
LIQUID CRYSTAL DISPLAY DECIMAL COUNTING UNIT



DISPLAY FLASHER

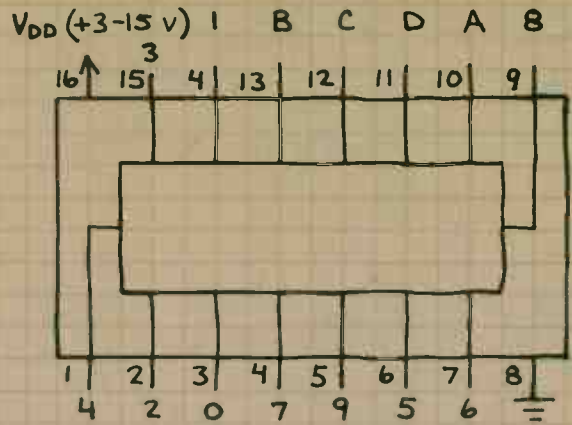


DRIVING LED DISPLAYS

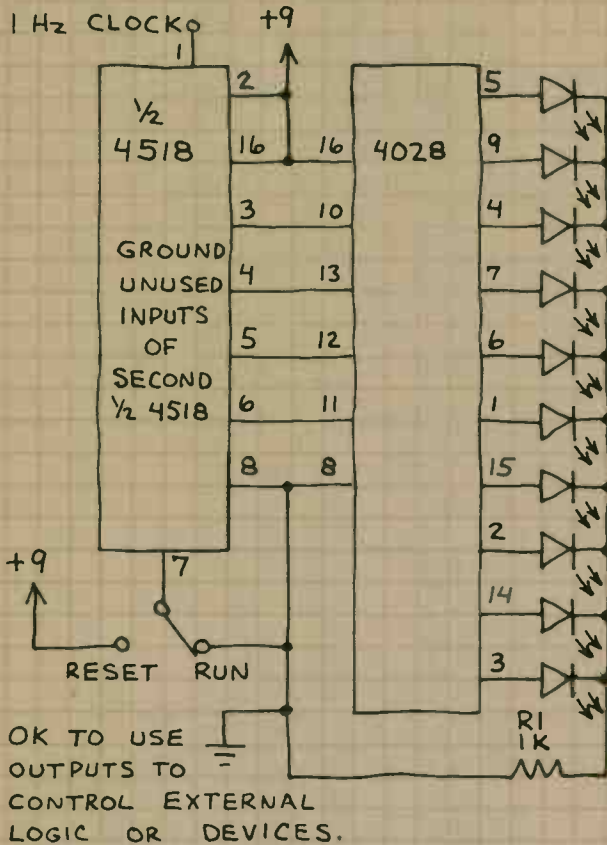


BCD-TO-DECIMAL DECODER 4028

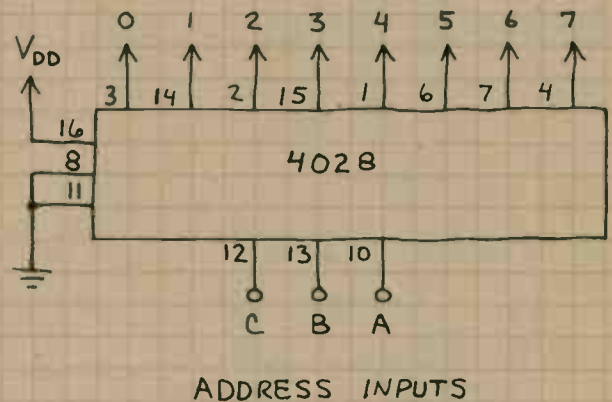
DECODES 4-BIT BCD INPUT INTO 1-OF-10 OUTPUTS. SELECTED OUTPUT GOES HIGH; ALL OTHERS STAY LOW. USE FOR DECIMAL READOUTS, SEQUENCERS, PROGRAMMABLE COUNTERS, ETC.



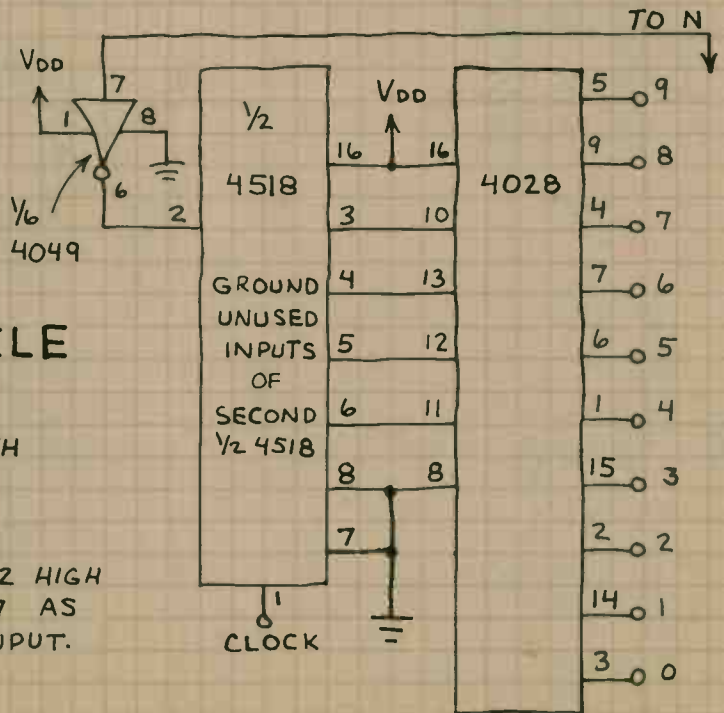
0-9 SECOND TIMER



1-OF-8 DECODER

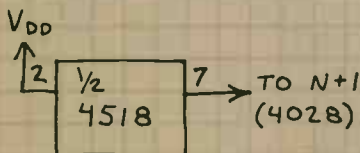


COUNT TO N AND HALT



COUNT TO N AND RECYCLE

USE THE ADJACENT CIRCUIT WITH THESE CHANGES:

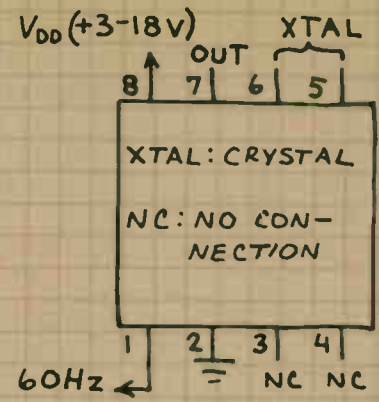


1. OMIT 4049
2. MAKE PIN 2 HIGH
3. USE PIN 7 AS CONTROL INPUT.

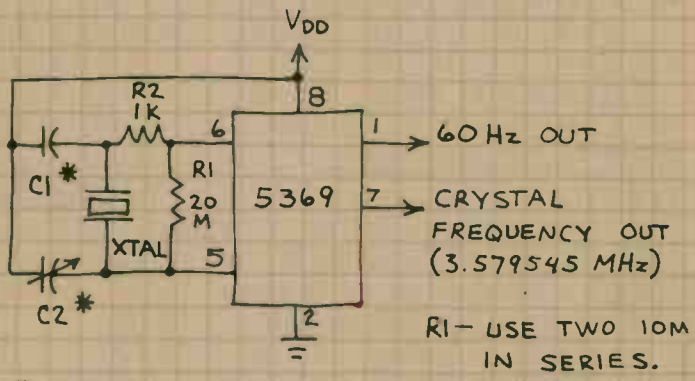
60-Hz TIMEBASE

MM5369 (276-1769)

PROVIDES PRECISE 60 Hz SQUARE WAVE WHEN USED WITH 3.579545 MHz COLOR TV CRYSTAL. USE FOR MOST DO-IT-YOURSELF TIMERS, CLOCKS, CONTROLLERS, FUNCTION GENERATORS. INSTALL IN SMALL CABINET FOR WORKBENCH PRECISION CLOCK.

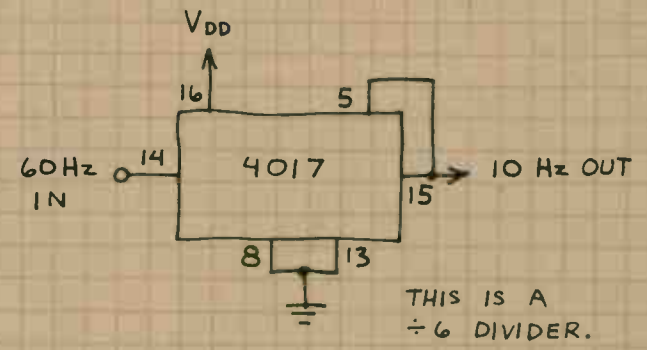


60-Hz TIMEBASE

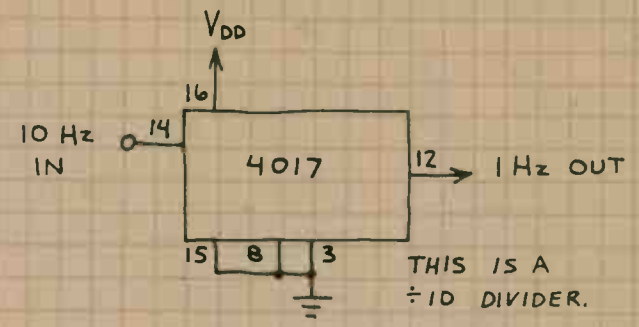


* MOTOROLA SPECIFIES THAT $C1 = 30 \text{ pF}$ AND $C2 = 6.36 \text{ pF}$. OK TO USE SIX 4.7 pF CAPACITORS IN PARALLEL OR 47 pF CAPACITOR FOR $C1$. TRY TUNABLE CAPACITOR (e.g. $5-50 \text{ pF}$) FOR $C2$. TO TUNE, CONNECT FREQUENCY METER TO PIN 7. TUNE $C2$ UNTIL FREQUENCY IS $3,579,545 \text{ Hz}$. ACCURACY FAIRLY GOOD EVEN IF YOU DON'T TUNE $C2$.

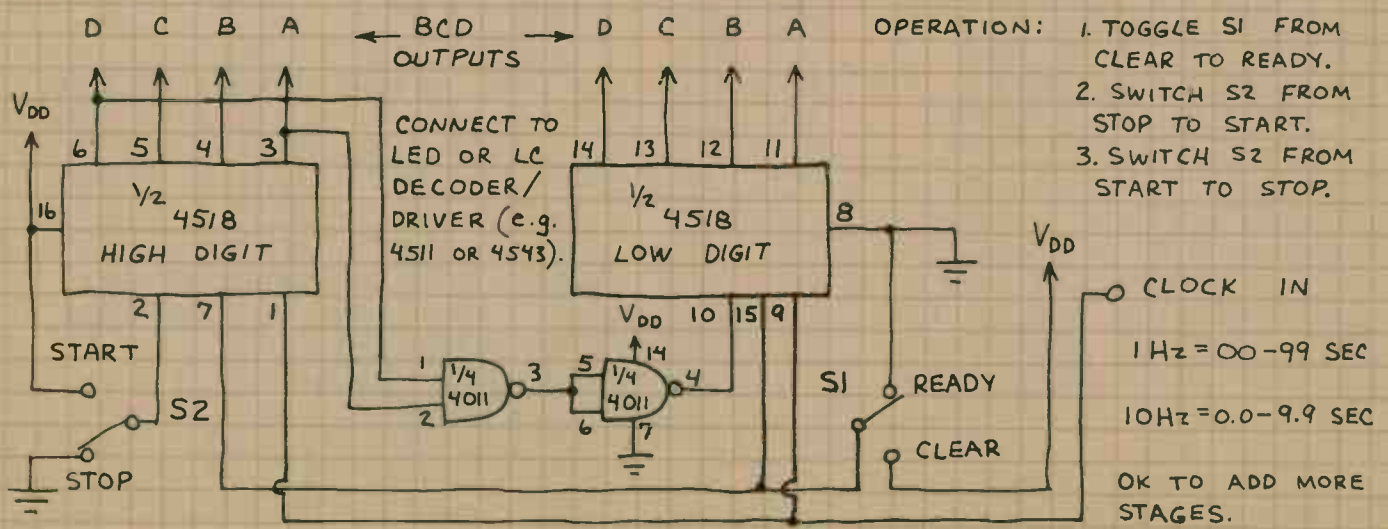
10-Hz TIMEBASE



1-Hz TIMEBASE

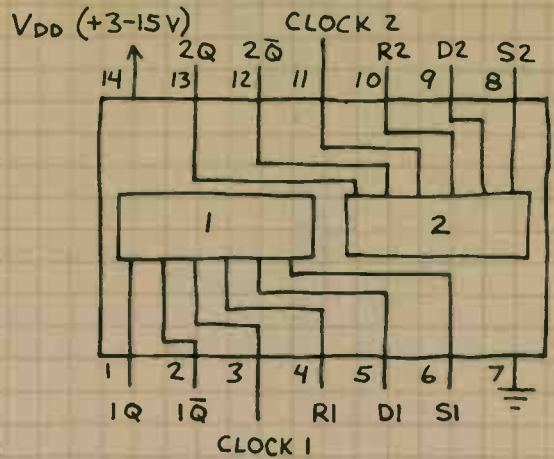


DIGITAL STOPWATCH

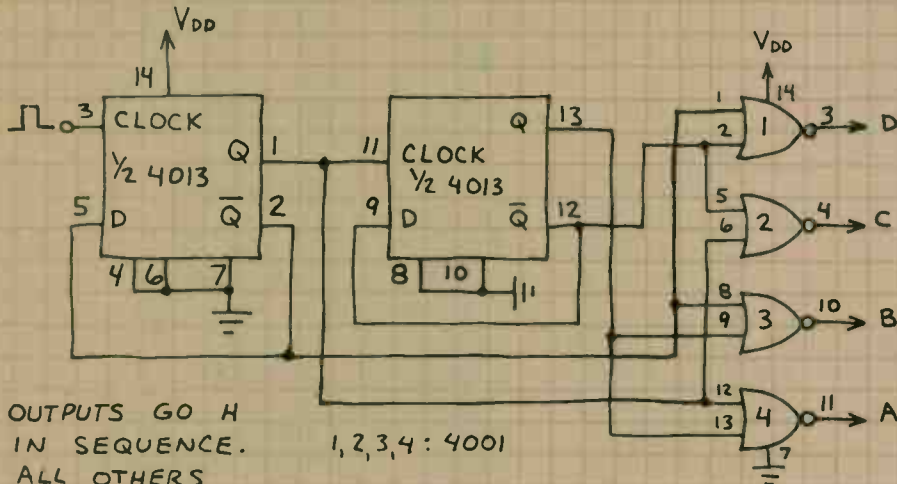


DUAL D FLIP-FLOP 4013

VERY VERSATILE PAIR OF D-TYPE
FLIP-FLOPS. GROUND UNUSED INPUTS.



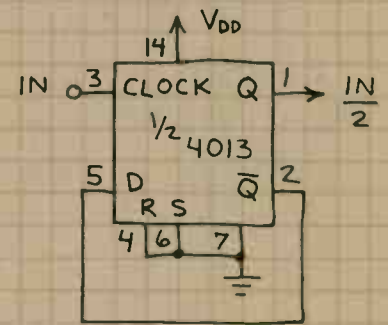
1-OF-4 SEQUENCER



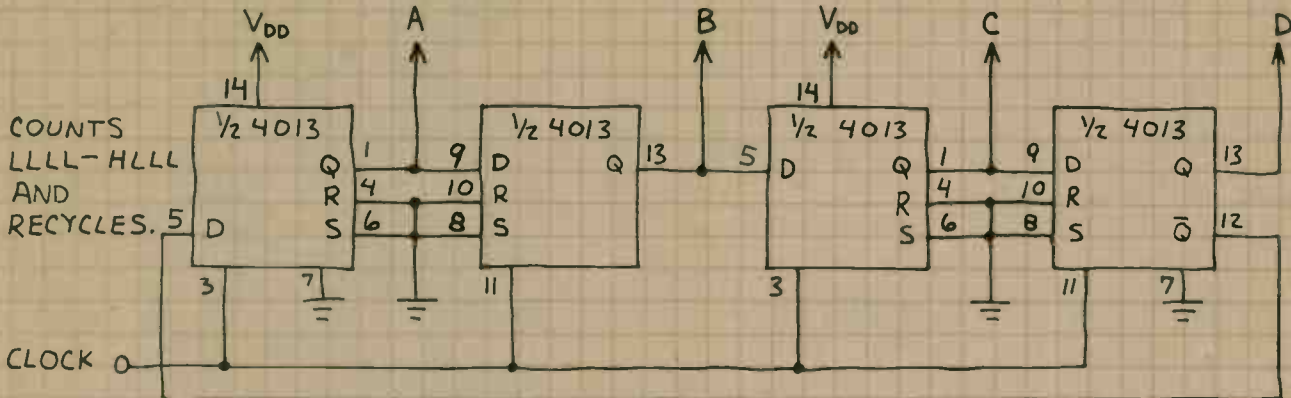
OUTPUTS GO H
IN SEQUENCE.
ALL OTHERS
STAY L.

1,2,3,4: 4001

DIVIDE-BY-2

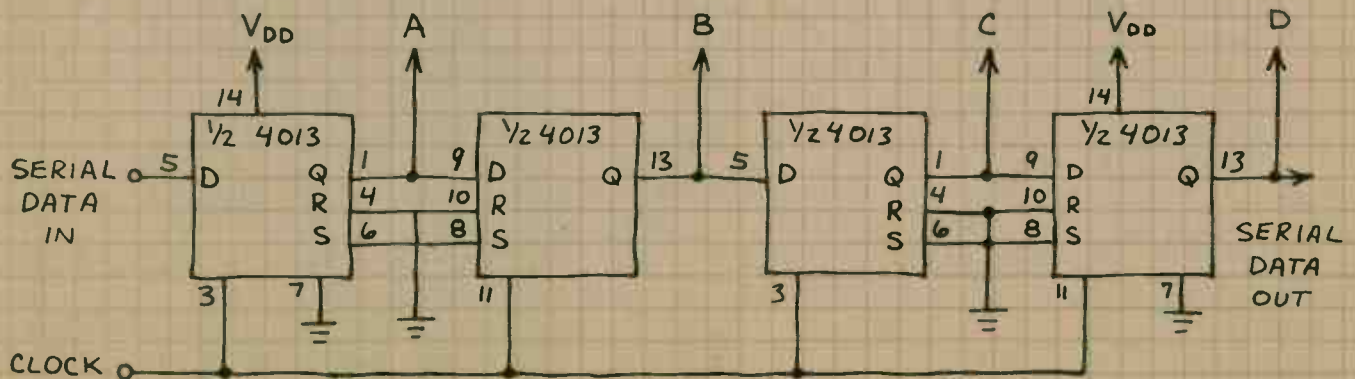


MODULO-8 COUNTER



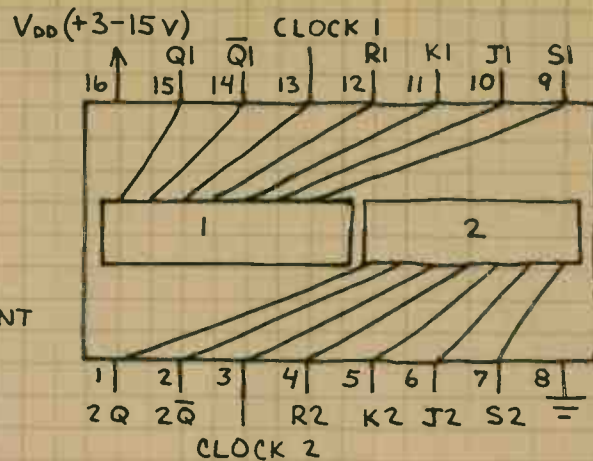
COUNTS
LLLL-HLLL
AND
RECYCLES.

SERIAL IN/OUT, PARALLEL OUT SHIFT REGISTER

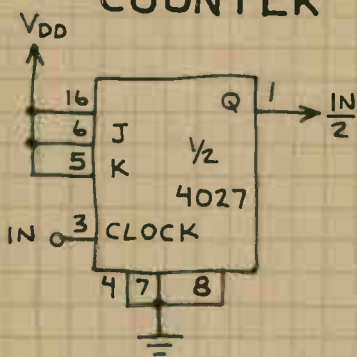


DUAL JK FLIP FLOP 4027

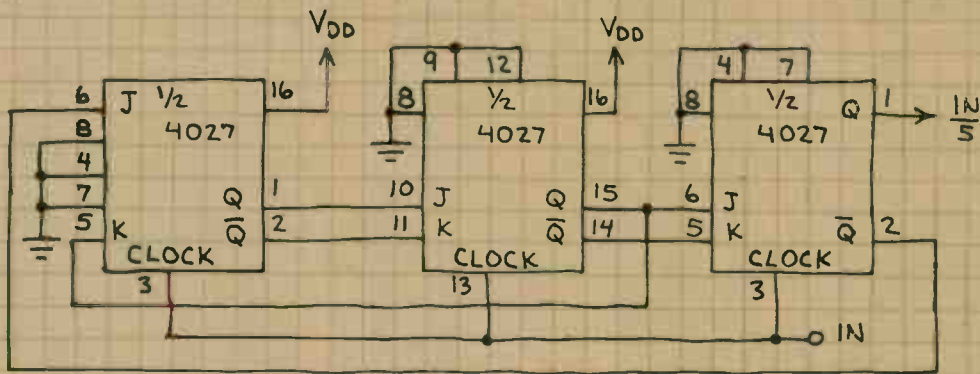
USE FOR DIVIDERS, COUNTERS AND REGISTERS. S (SET) AND R (RESET) INPUTS MUST BE LOW FOR CLOCKING TO OCCUR. MAKING S OR R HIGH SETS OR RESETS FLIP-FLOP INDEPENDENT OF CLOCK. IMPORTANT: ALL INPUTS MUST GO SOMEWHERE!



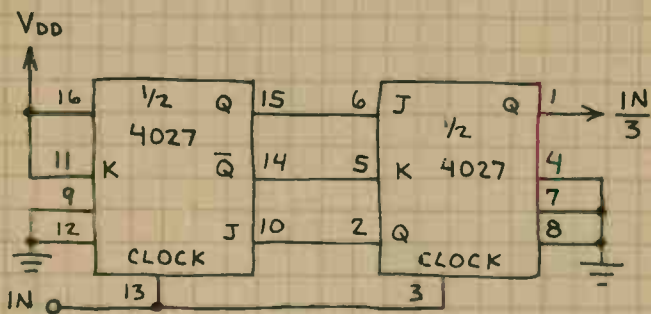
DIVIDE-BY-2 COUNTER



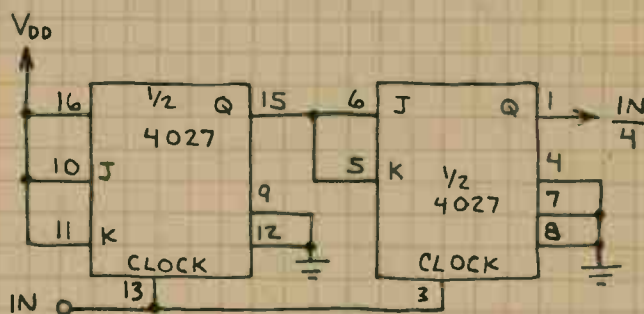
DIVIDE-BY-5 COUNTER



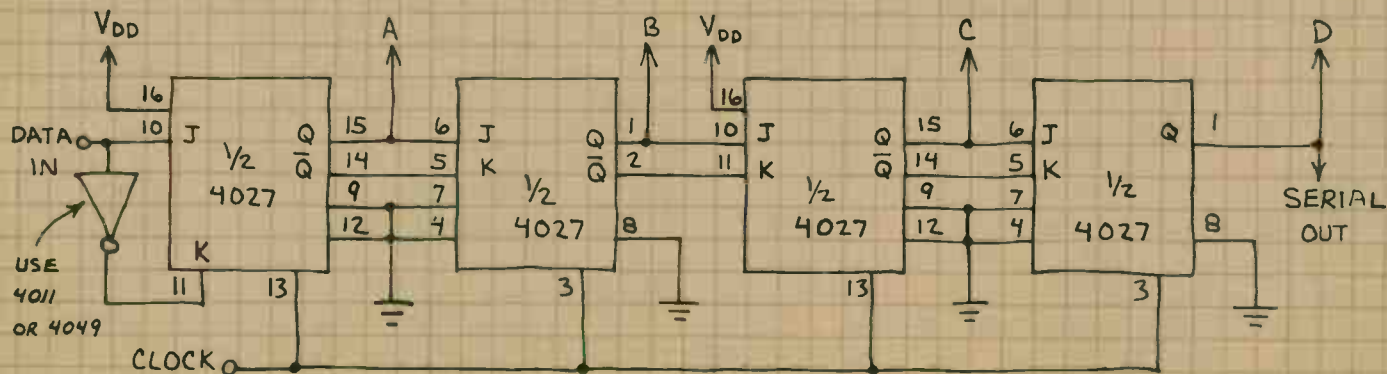
DIVIDE-BY-3 COUNTER



DIVIDE-BY-4 COUNTER



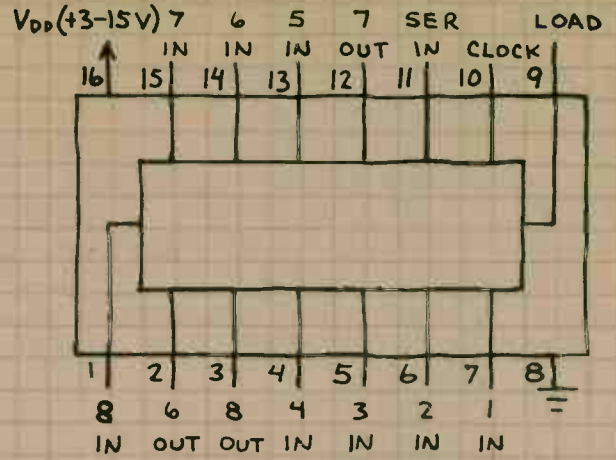
4-BIT SERIAL SHIFT REGISTER



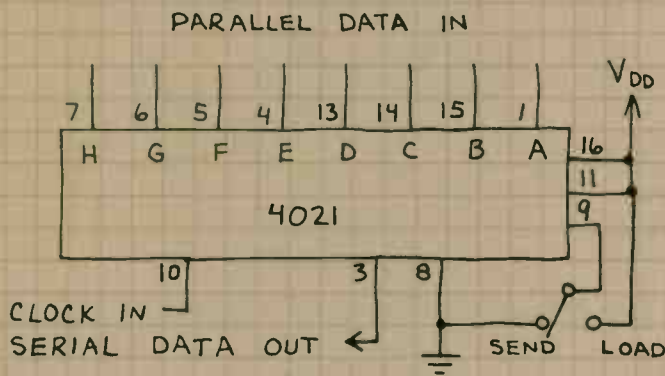
8-STAGE SHIFT REGISTER

4021

PARALLEL INPUT / SERIAL OUTPUT SHIFT REGISTER. ALSO SERIAL INPUT. DATA AT PARALLEL INPUTS IS FORCED INTO THE REGISTER IRRESPECTIVE OF THE CLOCK STATUS WHEN PIN 9 IS MADE HIGH. KEEP PIN 9 LOW FOR NORMAL OPERATION.

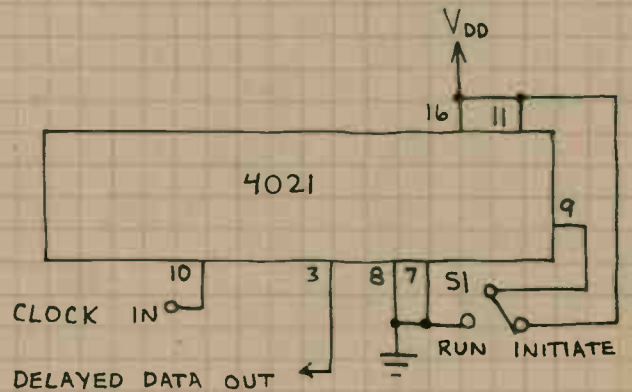


PARALLEL-TO-SERIAL DATA CONVERTER



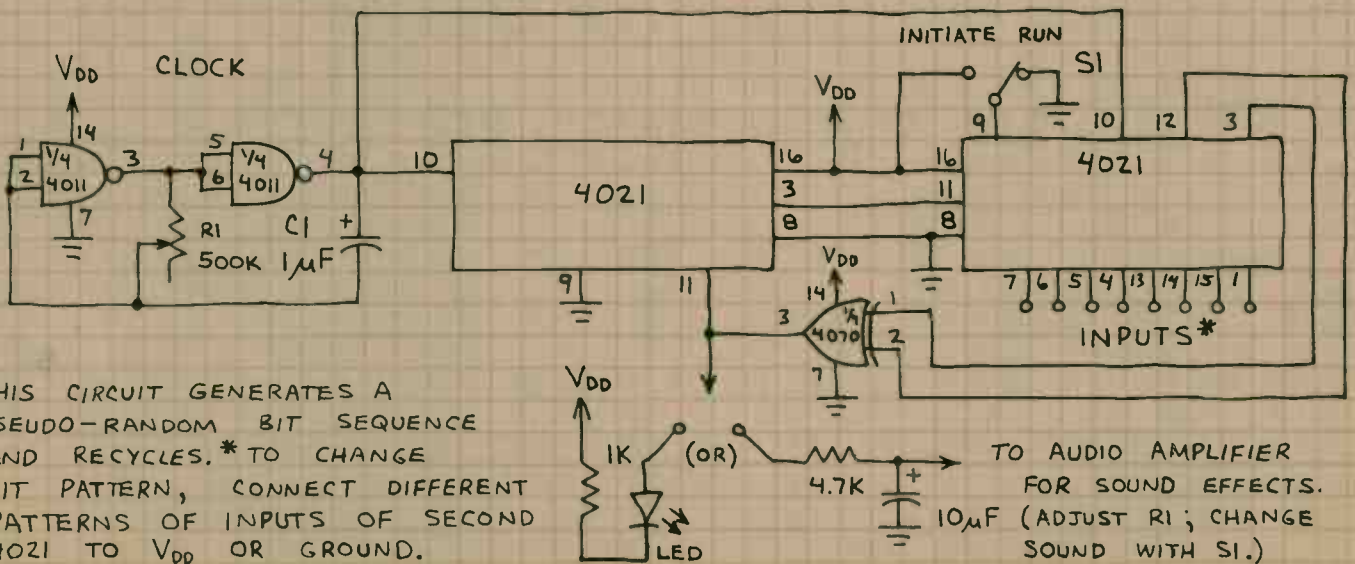
ALL 1's (H's) ARE SENT AFTER THE 8-BIT WORD IS TRANSMITTED.

8-STAGE DELAY LINE



THE FIRST PARALLEL INPUT (PIN 7) IS GROUNDED. THIS LOADS A SINGLE L WHEN S1 IS SWITCHED TO INITIATE. THE SINGLE L BIT REACHES THE OUTPUT AFTER 8 CLOCK PULSES.

PSEUDO-RANDOM SEQUENCER



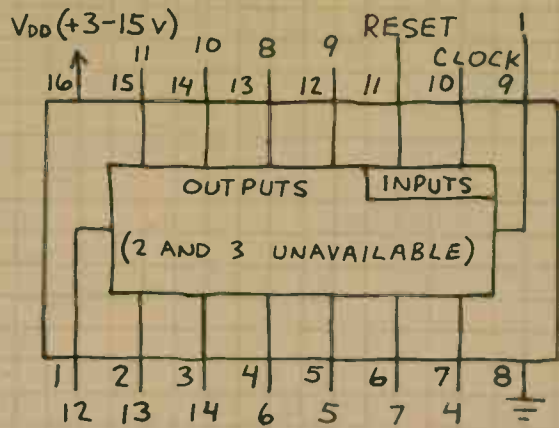
THIS CIRCUIT GENERATES A PSEUDO-RANDOM BIT SEQUENCE AND RECYCLES. * TO CHANGE BIT PATTERN, CONNECT DIFFERENT PATTERNS OF INPUTS OF SECOND 4021 TO VDD OR GROUND.

TO AUDIO AMPLIFIER FOR SOUND EFFECTS. (ADJUST R1; CHANGE SOUND WITH S1.)

14-STAGE BINARY COUNTER

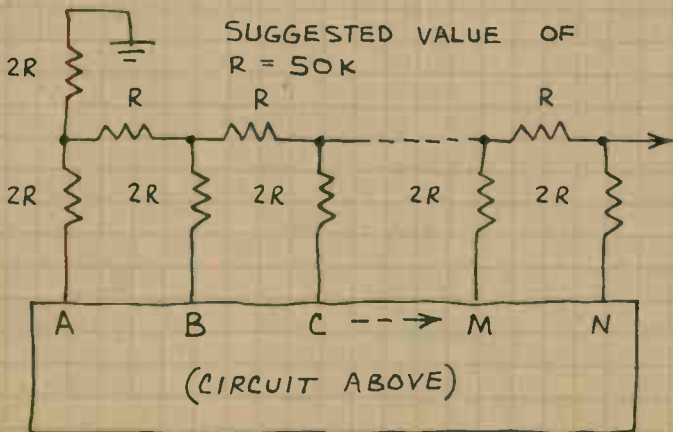
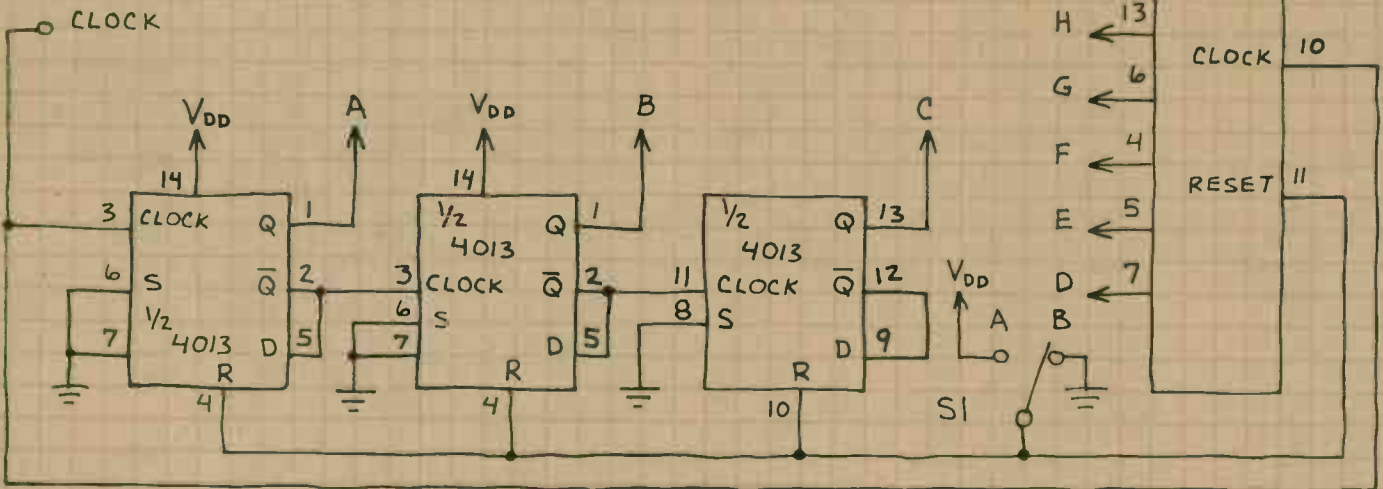
4020

A RIPPLE COUNTER WITH CARRY OUTPUT. THE 14-STAGE BINARY COUNT IS COMPLETED IN 16,384 CLOCK PULSES. THIS MAKES POSSIBLE VERY LONG DURATION TIMERS, ASSUMING THE OUTPUTS ARE DECODED. THE OUTPUTS REQUIRE A BRIEF SETTling TIME AFTER EACH CLOCK PULSE.

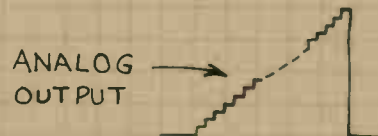


14-BIT BINARY COUNTER

THE SECOND AND THIRD OUTPUTS ($\div 4$ AND $\div 8$) OF THE 4020 ARE NOT AVAILABLE. THIS CIRCUIT INCLUDES A 3-BIT COUNTER TO SUPPLY THE MISSING OUTPUTS. A IS THE LOWEST ORDER OUTPUT.



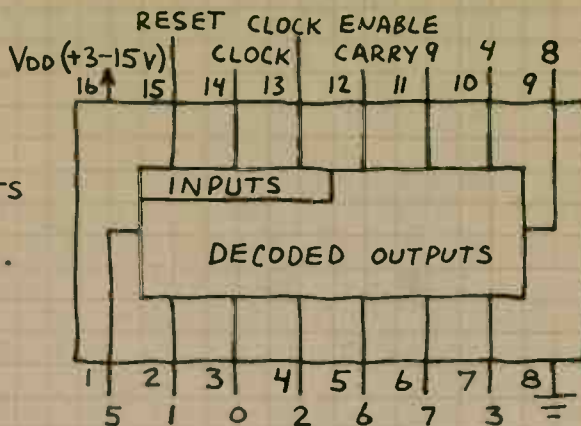
STAIRCASE GENERATOR



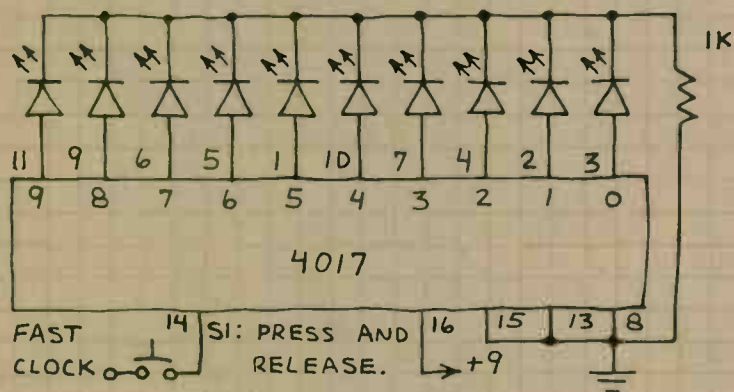
OUTPUT IS A STEPPED VOLTAGE. APPLICATIONS INCLUDE ANALOG-TO-DIGITAL CONVERSION AND WAVEFORM SYNTHESIS.

DECADE COUNTER/DECODER 4017

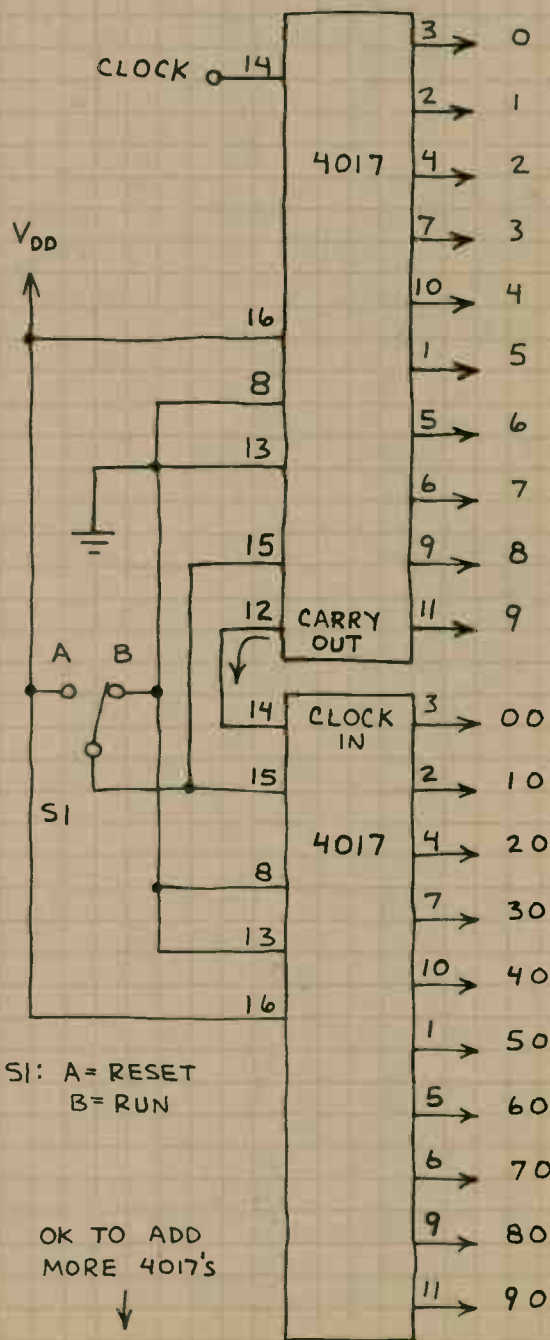
SEQUENTIALLY MAKES 1-OF-10 OUTPUTS HIGH (OTHERS STAY LOW) IN RESPONSE TO CLOCK PULSES. MANY APPLICATIONS. COUNT TAKES PLACE WHEN PINS 13 AND 15 ARE LOW.



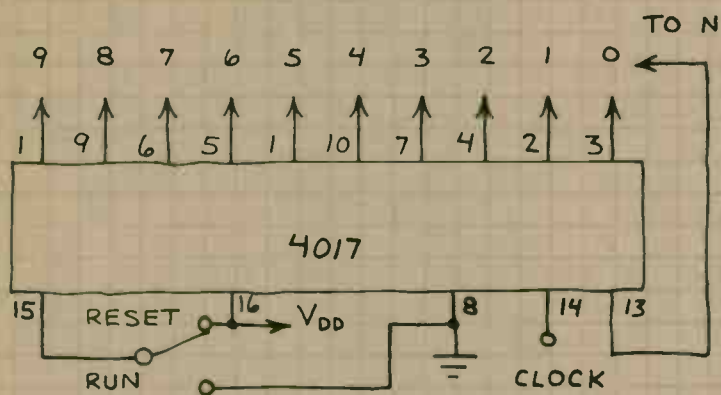
RANDOM NUMBER GENERATOR



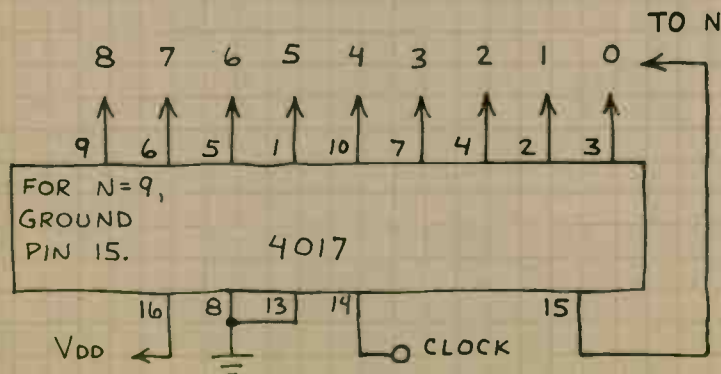
0-99 COUNTER



COUNT TO N AND HALT



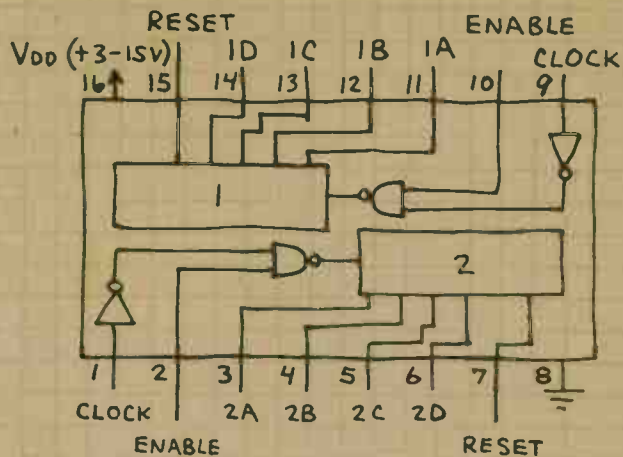
COUNT TO N AND RECYCLE



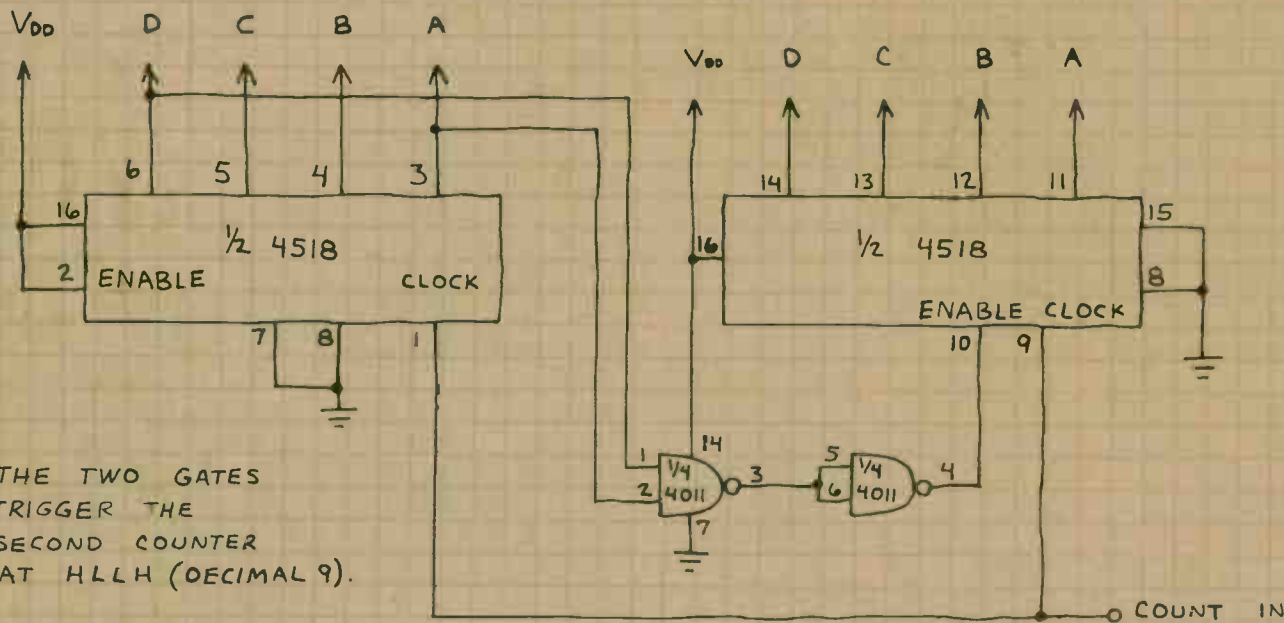
DUAL BCD COUNTER 4518

4518

TWO SYNCHRONOUS DECADE COUNTERS IN ONE PACKAGE. WHEN ENABLE IS HIGH AND RESET IS LOW, EACH COUNTER ADVANCES ONE COUNT PER CLOCK PULSE.



CASCADED BCD COUNTERS

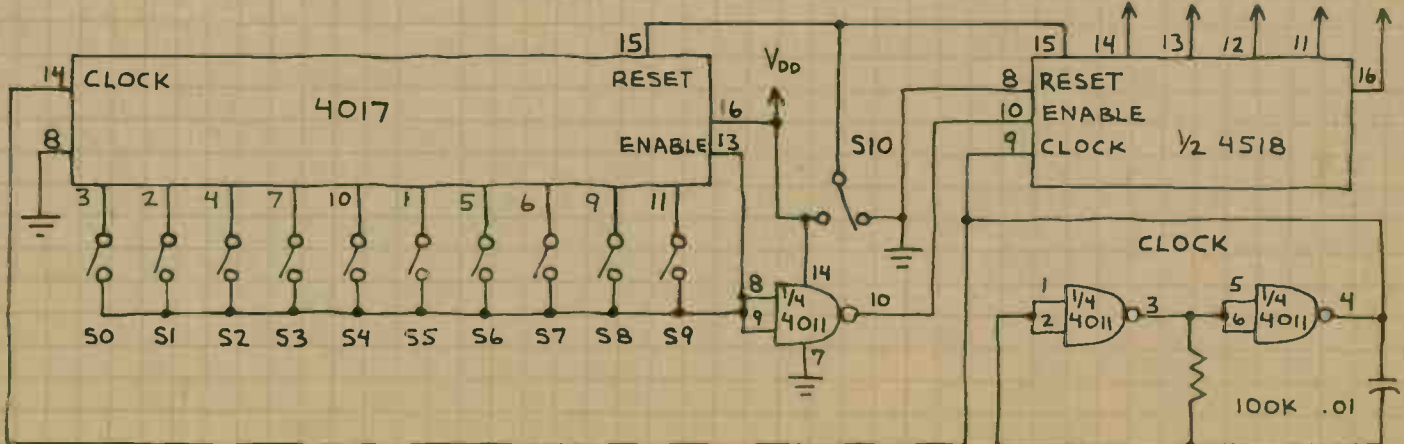


THE TWO GATES TRIGGER THE SECOND COUNTER AT HLLH (DECIMAL 9).

BCD KEYBOARD ENCODER

PRESS S0-S9, THEN TOGGLE RESET SWITCH S10 TO VDD AND BACK TO GROUND.

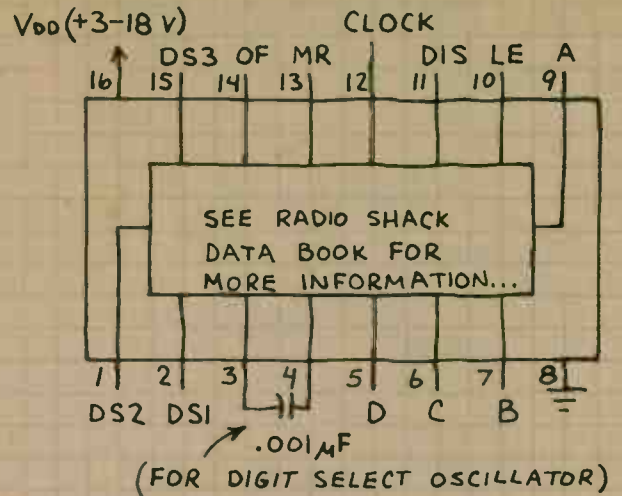
BCD EQUIVALENT OF SELECTED KEY (S0-S9) APPEARS → D C B A VDD



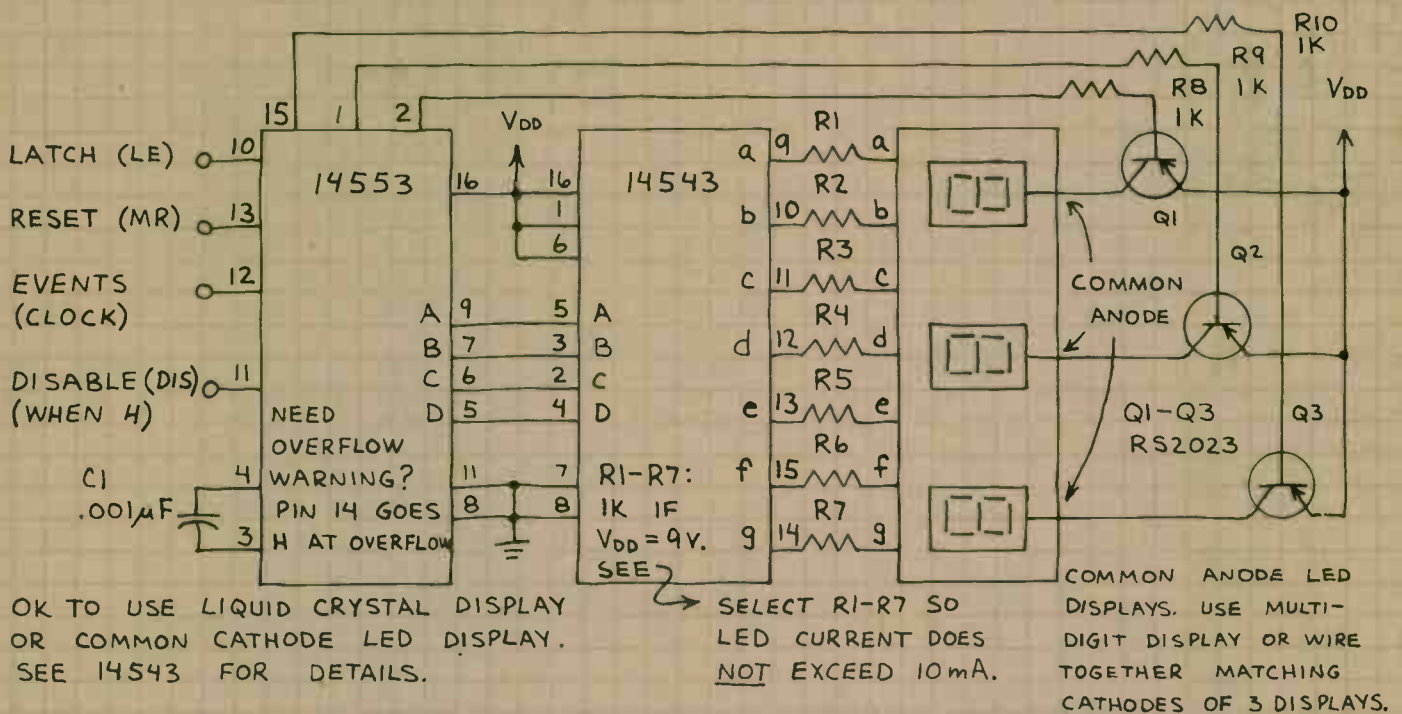
3-DIGIT BCD COUNTER

MC14553

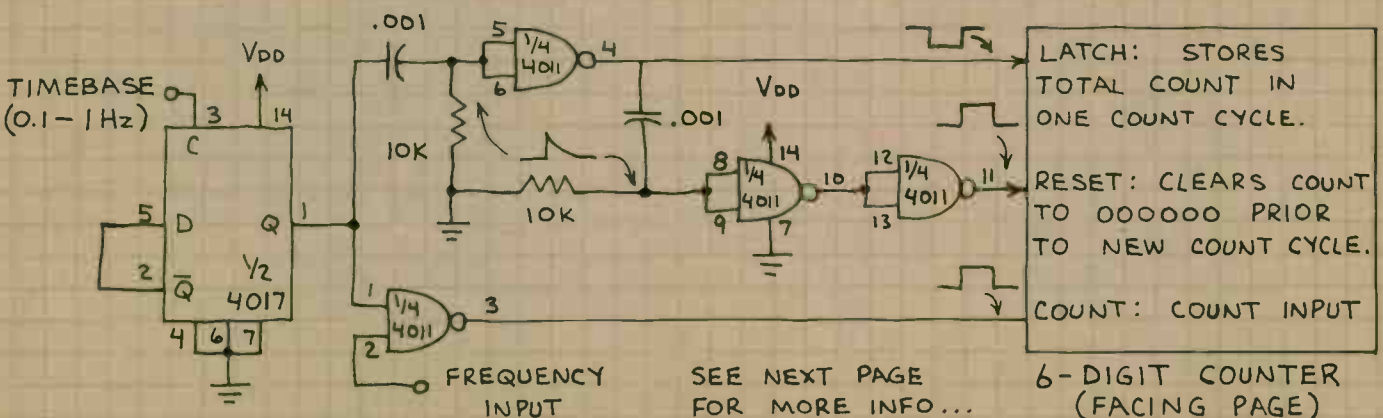
COMPLETE 3-DIGIT COUNTER. USE FOR DO-IT-YOURSELF EVENT AND FREQUENCY COUNTERS. BEGINNERS: GET SOME PRACTICAL CIRCUIT EXPERIENCE BEFORE USING THIS CHIP. PIN EXPLANATIONS: DS (DIGIT SELECT) 1, 2, 3 - SEQUENTIALLY STROBES READOUTS. LE - LATCH ENABLE (WHEN H). DIS - INHIBITS INPUT WHEN H. CLOCK - INPUT. MR - MASTER RESET (WHEN H). OF - OVERFLOW. A, B, C, D - BCD OUTPUTS.



3-DIGIT EVENT COUNTER



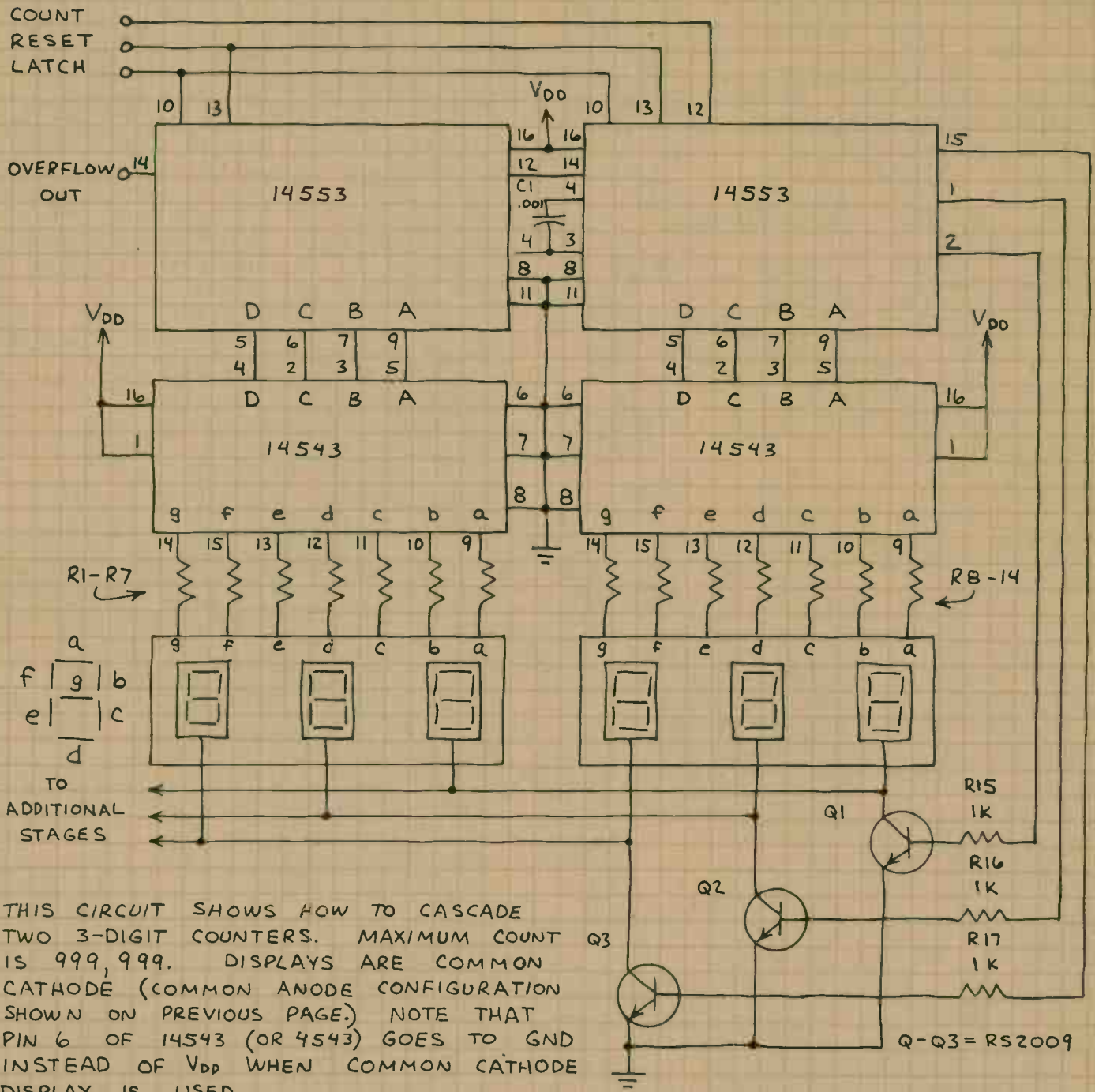
6-DIGIT FREQUENCY COUNTER



3-DIGIT BCD COUNTER (CONTINUED)

MC14553

6-DIGIT COUNTER

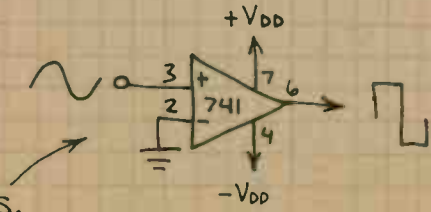


THIS CIRCUIT SHOWS HOW TO CASCADE TWO 3-DIGIT COUNTERS. MAXIMUM COUNT IS 999,999. DISPLAYS ARE COMMON CATHODE (COMMON ANODE CONFIGURATION SHOWN ON PREVIOUS PAGE.) NOTE THAT PIN 6 OF 14543 (OR 4543) GOES TO GND INSTEAD OF V_{DD} WHEN COMMON CATHODE DISPLAY IS USED.

FREQUENCY COUNTER:

USE INPUT AND CONTROL CIRCUIT ON PREVIOUS PAGE. INPUT FREQUENCY SHOULD NOT EXCEED V_{DD}. NON-SQUARE WAVE INPUTS MAY REQUIRE INPUT TAILORING. USE COMPARATOR TO SHARPEN SLOW RISING WAVES.

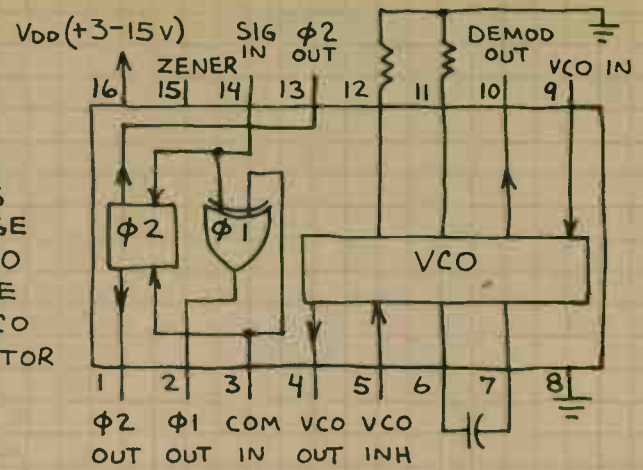
INPUT BUFFER



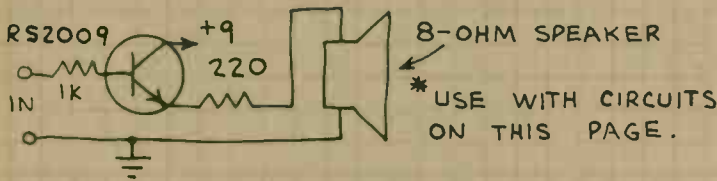
PHASE-LOCKED LOOP (PLL)

4046

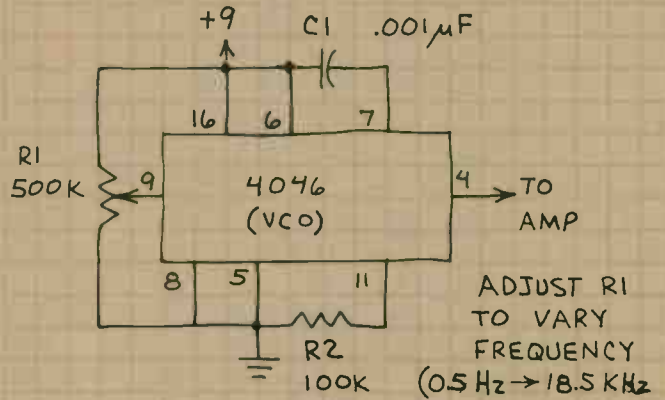
EXCEPTIONALLY VERSATILE CHIP. CONTAINS TWO PHASE COMPARATORS AND VOLTAGE CONTROLLED OSCILLATOR (VCO). USE VCO AND ONE PHASE COMPARTOR TO MAKE PLL. CIRCUITS ON THIS PAGE USE VCO ONLY. SEE RADIO SHACK SEMICONDUCTOR REFERENCE HANDBOOK FOR MORE INFORMATION.



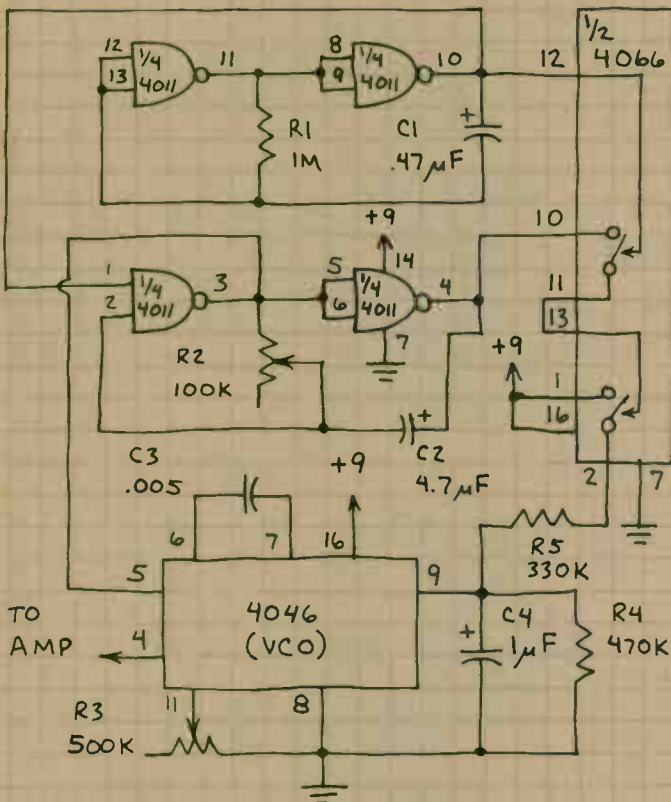
SPEAKER AMPLIFIER*



TUNABLE OSCILLATOR



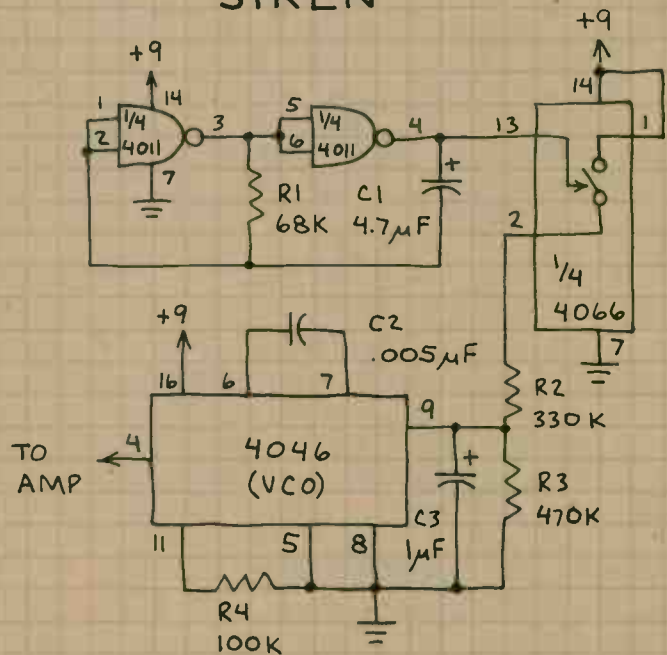
CHIRP BURST SEQUENCER



R2: ADJUST FOR 1-4 CHIRPS PER CYCLE. CHIRPS WILL HAVE DIFFERENT FREQUENCIES.

R3: CONTROLS PITCH OF CHIRPS. FOR TONES INSTEAD OF CHIRPS, CONNECT TO PIN 12 INSTEAD OF PIN 11.

SIREN



CHANGE R1 OR C1 TO ALTER CYCLE TIME. CHANGE R4 OR C2 TO ALTER FREQUENCY. CHANGE R3 OR C3 TO ALTER WAIL.

1024-BIT STATIC RAM

2102L

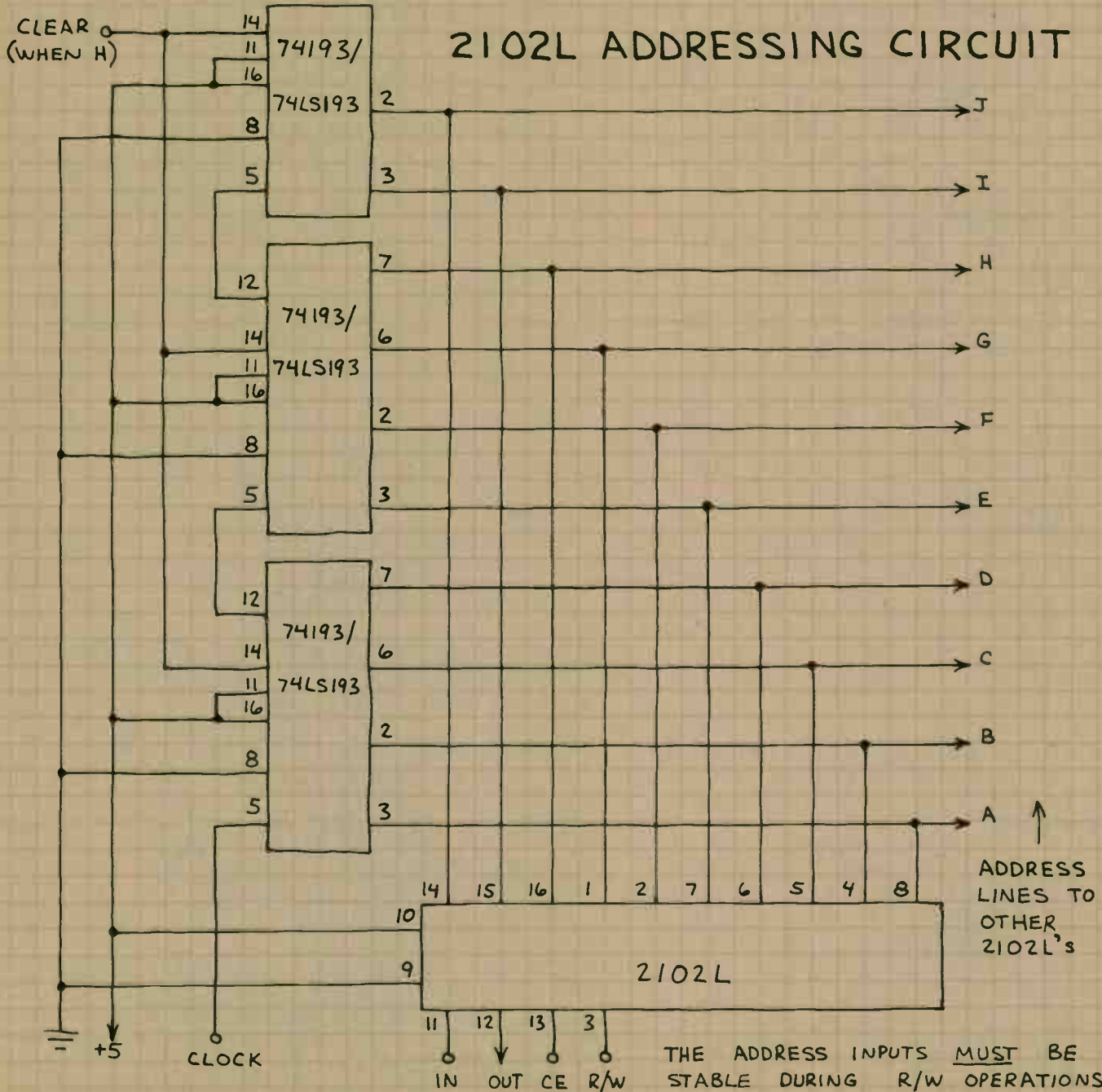
1024 1-BIT STORAGE LOCATIONS ADDRESSED BY PINS A0-A9. TTL/LS COMPATIBLE. CE (CHIP ENABLE) INPUT CONTROLS R/W (READ/WRITE) OPERATIONS). 3-STATE OUTPUTS.

CE	R/W	OPERATION
L	L	WRITE (LOADS BIT AT PIN 11)
L	H	READ (OUTPUTS BIT AT PIN 12)
H	X	HI Z (OUTPUT ENTERS THIRD STATE)

A7 A8 A9 CE OUT IN +5 GND
16 15 14 13 12 11 10 9

NOTE UNUSUAL LOCATION OF POWER SUPPLY PINS.
(A0-A9: ADDRESS INPUTS)

1 2 3 4 5 6 7 8
A6 A5 R/w A1 A2 A3 A4 A0



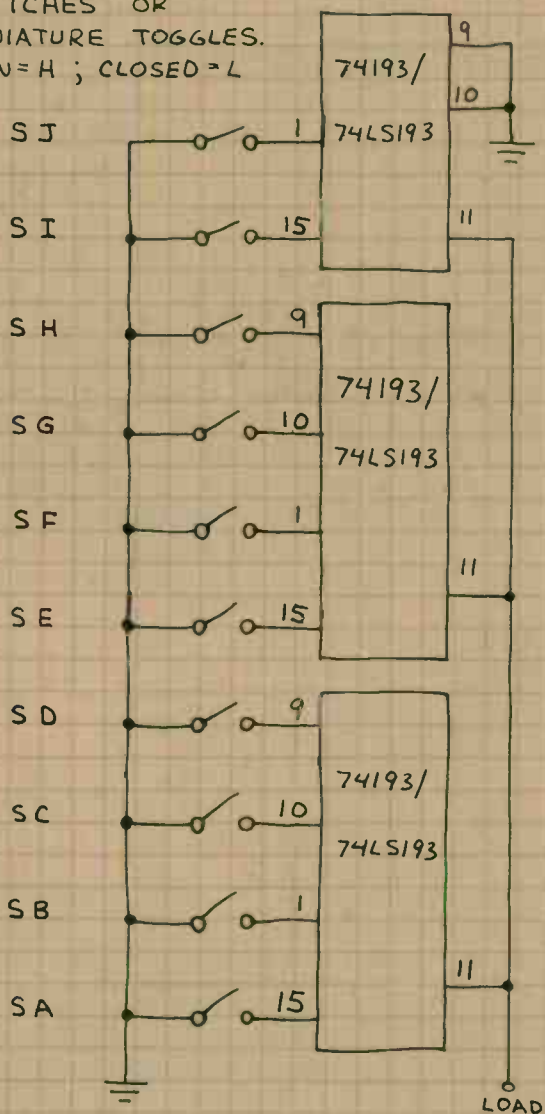
1024-BIT STATIC RAM (CONTINUED)

2102L

ADDING PROGRAMMED OR MANUAL JUMP

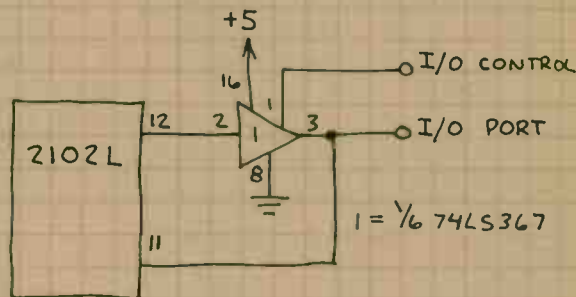
ADD THESE CONNECTIONS TO THE ADDRESSING CIRCUIT ON FACING PAGE.

SA-SJ: USE 8-POSITION DIP SWITCHES OR MINIATURE TOGGLES. OPEN=H; CLOSED=L



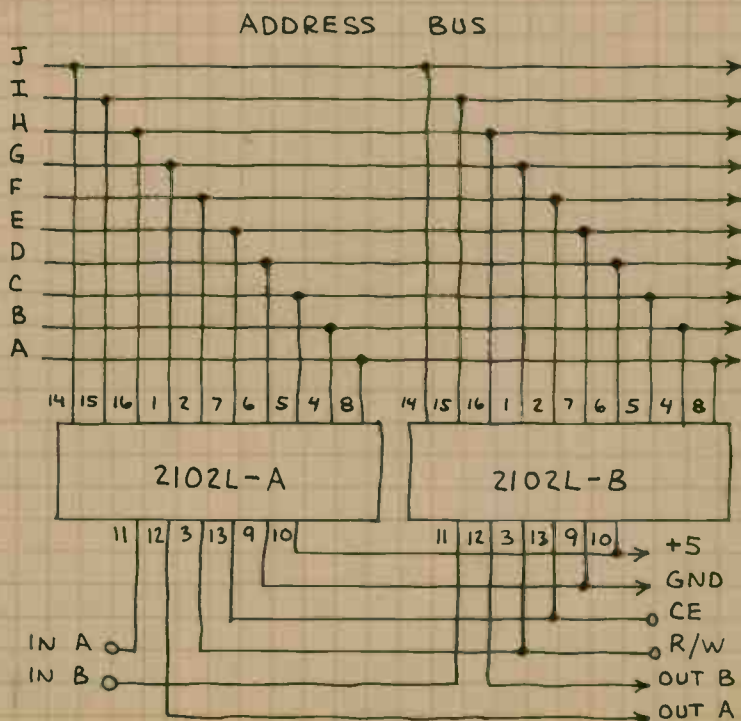
NORMALLY THE LOAD INPUT IS HIGH. MAKING LOAD LOW LOADS THE ADDRESS PROGRAMMED IN SWITCHES SA-SJ INTO THE 74193'S. THIS PERMITS A PROGRAMMED JUMP OR A MANUAL JUMP TO ANY ADDRESS.

SINGLE I/O PORT



ADD THIS CIRCUIT TO THE ADDRESSING CIRCUIT ON FACING PAGE. WHEN I/O (INPUT/OUTPUT) CONTROL IS H, PIN 3 OF THE 74LS367 ENTERS THIRD STATE (HI-Z) AND I/O PORT ACCEPTS INPUT DATA. WHEN PIN 3 OF THE 74LS367 IS L, I/O PORT OUTPUTS DATA. BOTH THESE OPERATIONS ARE DEPENDENT UPON THE STATUS OF THE 2102L CONTROL INPUTS.

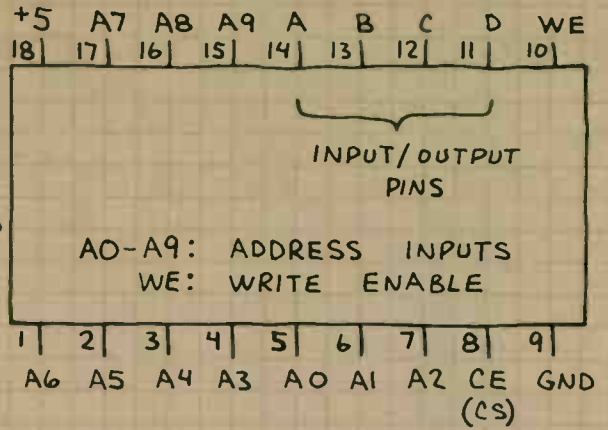
CASCADING 2102L'S



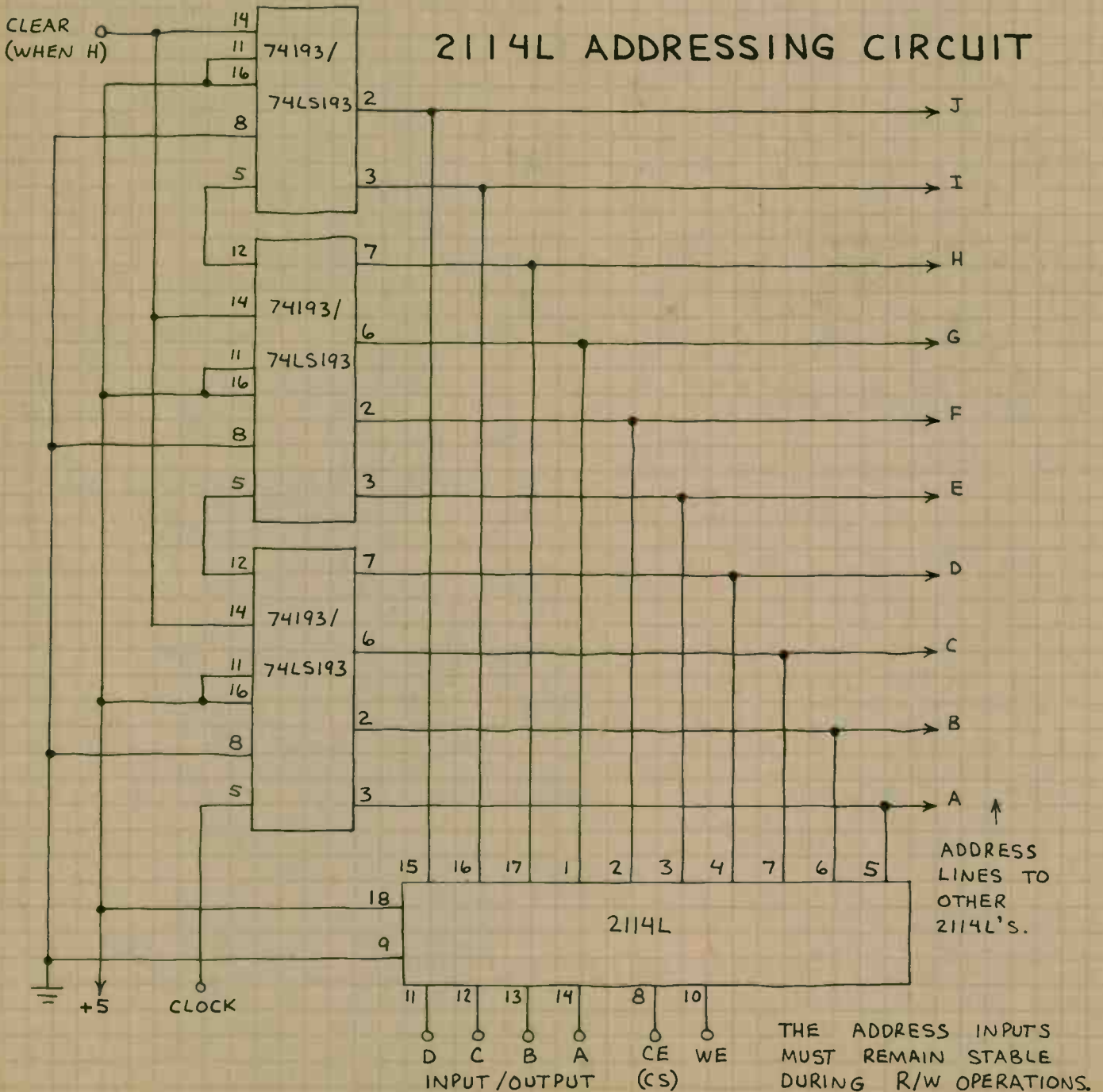
1024 x 4-BIT RAM

2114L / 4045

1024-4-BIT STORAGE LOCATIONS ADDRESSED BY PINS A0-A9. TTL/LS COMPATIBLE. FOR READ/WRITE OPERATIONS, CE (CHIP ENABLE, ALSO CALLED CHIP SELECT) MUST BE LOW. WE INPUT MUST BE LOW TO WRITE (LOAD) DATA INTO CHIP. WHEN WE IS HIGH, DATA IN ADDRESSED LOCATION APPEARS AT INPUT/OUTPUT PINS. IDEAL CHIP FOR DO-IT-YOURSELF MICROCOMPUTERS AND CONTROLLERS.



2114L ADDRESSING CIRCUIT



1024 x 4-BIT RAM (CONTINUED)

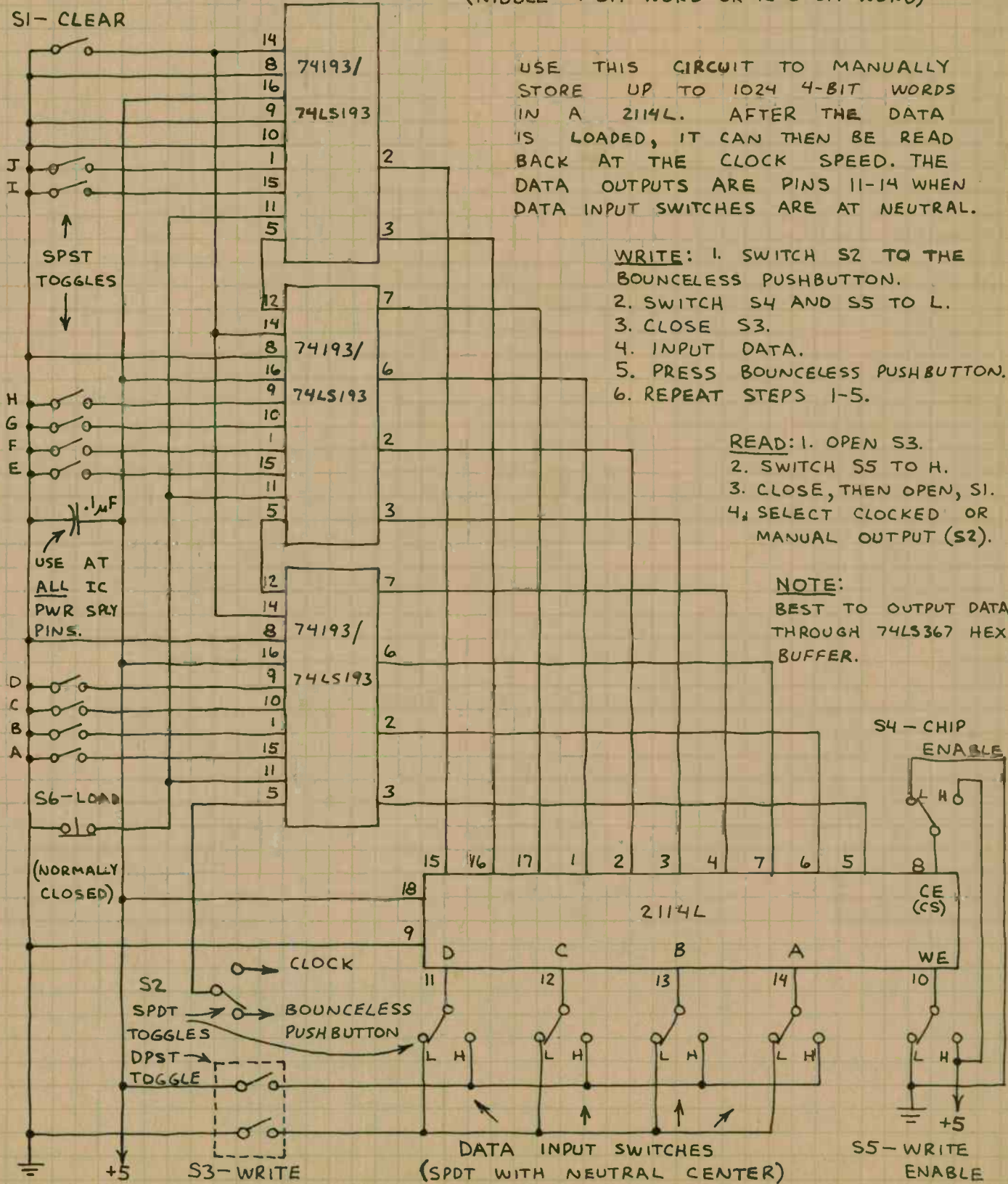
2114L/4045

1024-NIBBLE

DATA LOADING CIRCUIT

MANUAL JUMP: 1. SET SWITCHES A-J TO DESIRED ADDRESS; 2. PRESS S6.

(NIBBLE = 4-BIT WORD OR 1/2 8-BIT WORD)

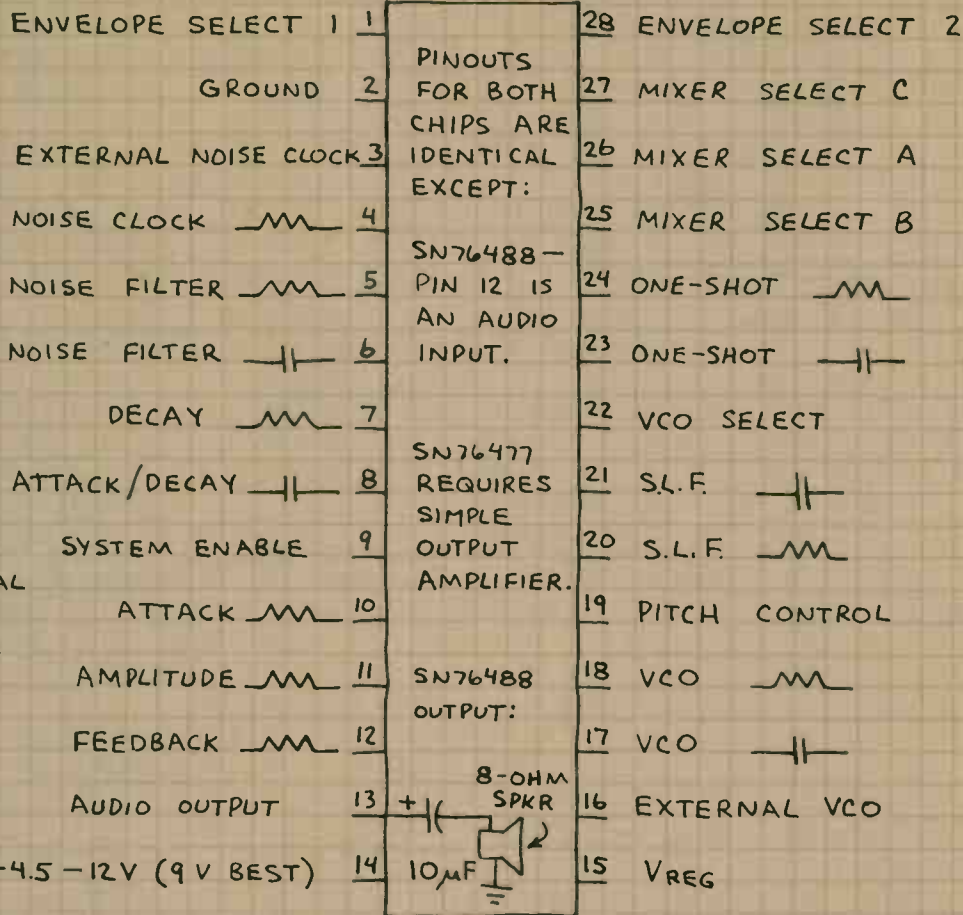


COMPLEX SOUND GENERATOR

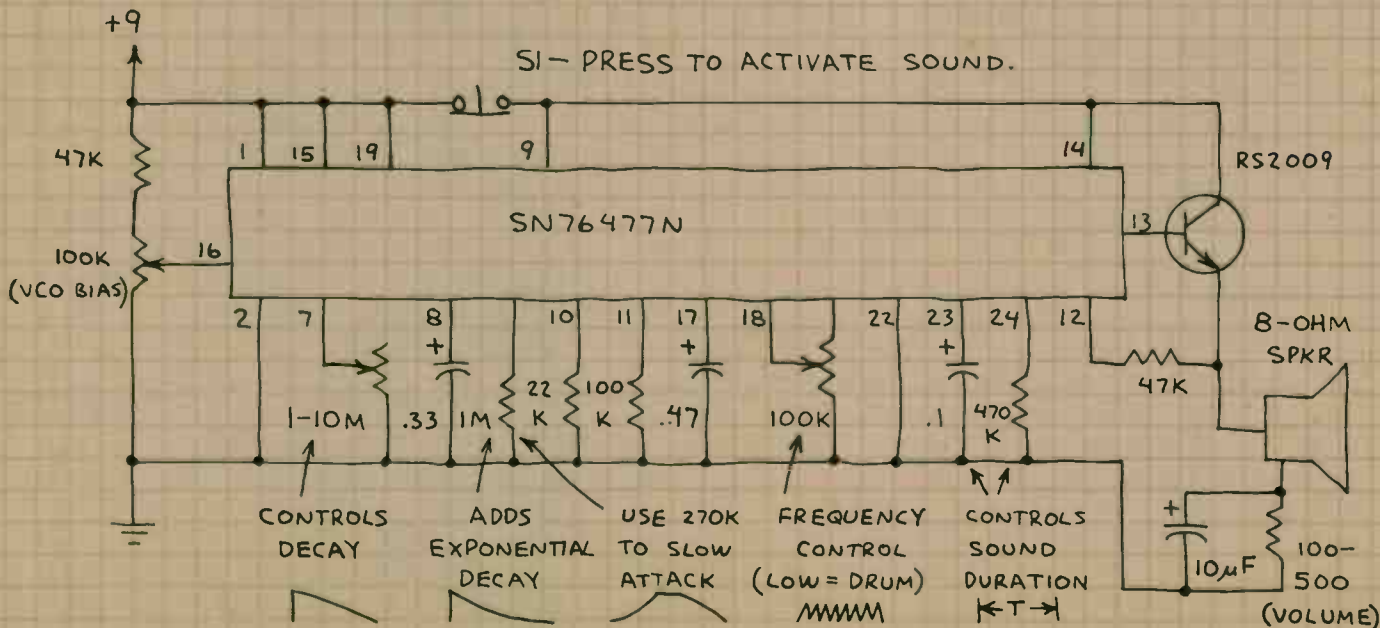
SN76477N / SN76488N

NOTE: THE SN76488 INCLUDES BUILT-IN SPEAKER AMPLIFIER. THE SN76477 DOES NOT.

INCORPORATES S.L.F. (SUPER LOW FREQUENCY OSCILLATOR), VCO (VOLTAGE CONTROLLED OSCILLATOR), NOISE GENERATOR AND A MIXER THAT ALLOWS THE OUTPUTS FROM ONE OR MORE OF THE ABOVE TO BE COMBINED. CAN BE OPERATED TOGETHER WITH APPROPRIATE RESISTORS AND CAPACITORS TO PRODUCE MANY KINDS OF SOUNDS. CAN BE CONTROLLED BY EXTERNAL LOGIC. SEE DATA SUPPLIED WITH CHIP FOR MORE INFO. SN76477 AND SN76488 ARE INTERCHANGEABLE... BUT SN76488 DOES NOT NEED OUTPUT AMPLIFIER. NOTE: THIS CHIP IS EASY TO USE IF YOU FOLLOW DATA SHEET INSTRUCTIONS.



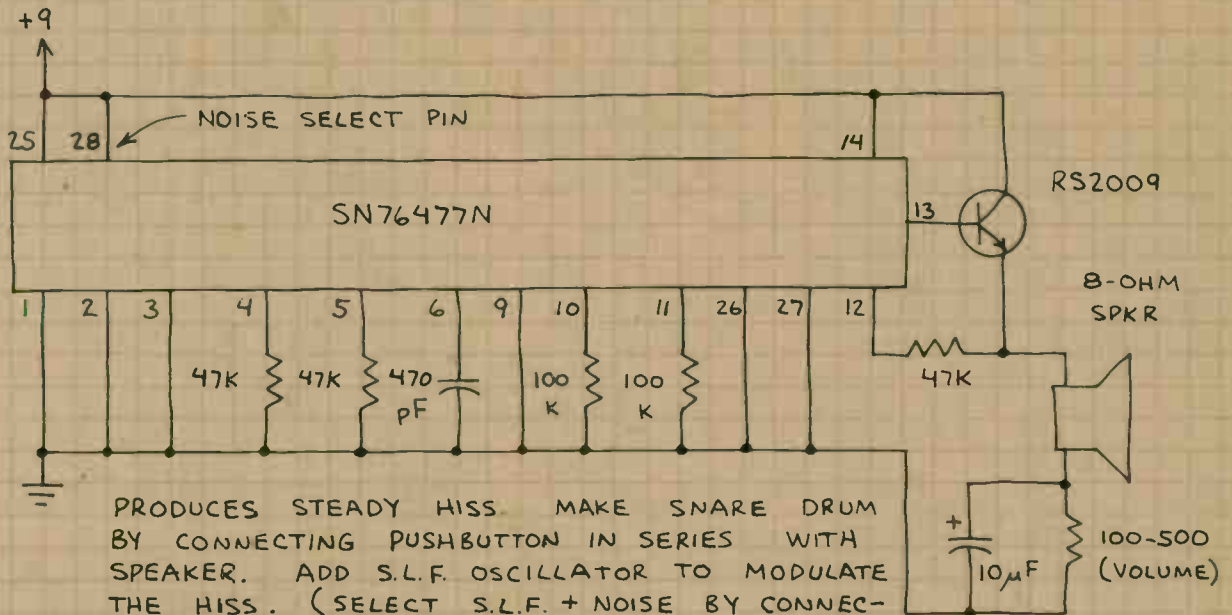
PERCUSSION SYNTHESIZER



COMPLEX SOUND GENERATOR (CONTINUED)

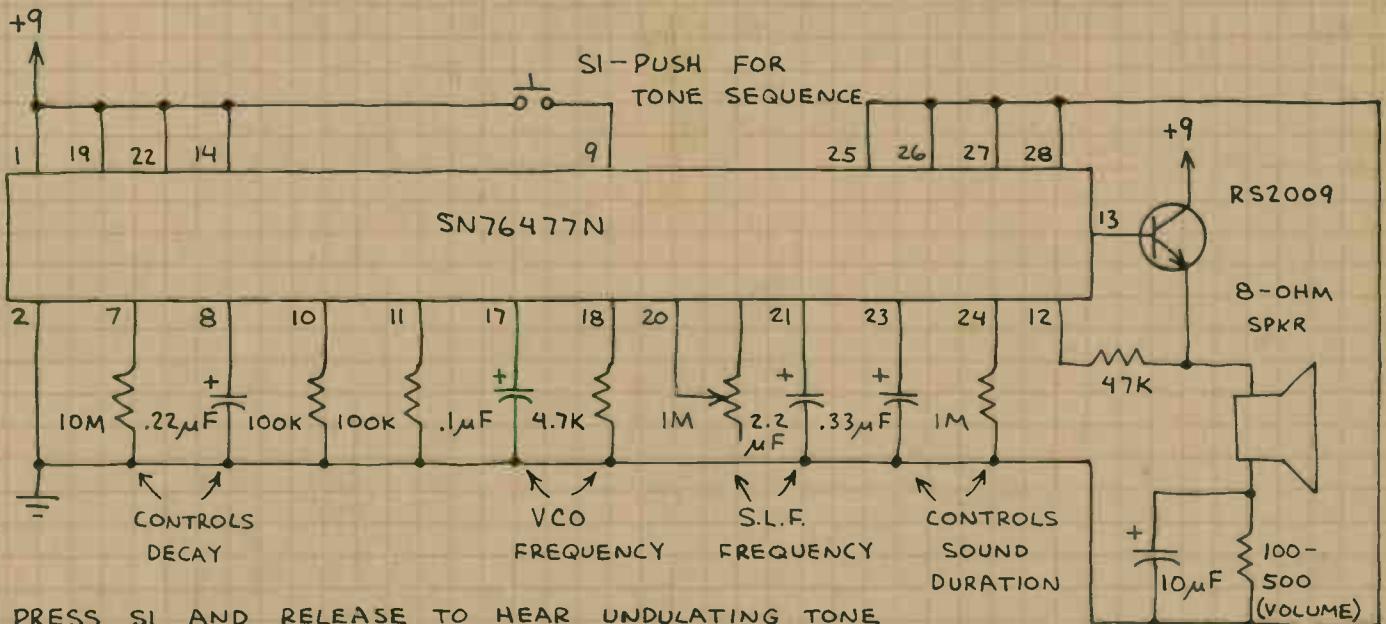
SN76477N / SN76488N

NOISE GENERATOR



PRODUCES STEADY HISS. MAKE SNARE DRUM BY CONNECTING PUSHBUTTON IN SERIES WITH SPEAKER. ADD S.L.F. OSCILLATOR TO MODULATE THE HISS. (SELECT S.L.F. + NOISE BY CONNECTING PINS 25 AND 26 TO GND AND PIN 27 TO +9V. ADD 1M POT FROM PIN 20 TO GND AND 1µF CAPACITOR FROM PIN 21 TO GND.) SOUNDS LIKE STEAM TRAIN OR PROPELLER AIRCRAFT DEPENDING ON ADJUSTMENT OF 1M POT.

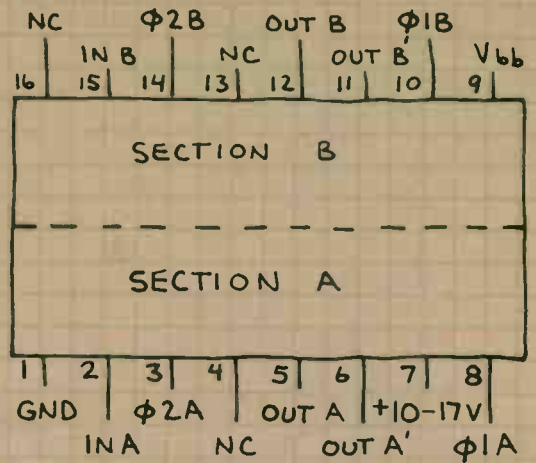
UNIVERSAL UP-DOWN TONE GENERATOR



PRESS SI AND RELEASE TO HEAR UNDULATING TONE THAT GRADUALLY DECAYS AND STOPS. CHANGE VCO AND S.L.F. COMPONENTS FOR MANY DIFFERENT SOUND EFFECTS RANGING FROM SIREN TO SCIENCE FICTION MOVIE SOUNDS. FOR CONTINUOUS SOUND, OMIT COMPONENTS AT PINS 7, 8, 23, 24 AND GROUND PIN 9.

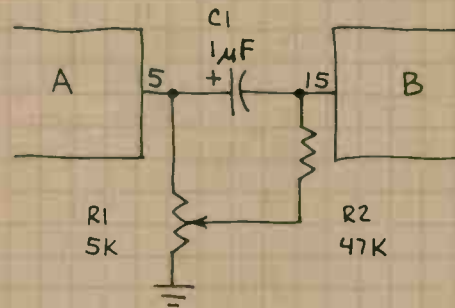
DUAL ANALOG DELAY LINE SAD-1024A

CONTAINS TWO INDEPENDENT 512 STAGE SERIAL ANALOG DELAY (SAD) LINES (ALSO CALLED ANALOG SHIFT REGISTERS). OK TO USE EACH 512 STAGE SAD SEPARATELY OR IN SERIES. ANALOG DELAYS OF UP TO $\frac{1}{2}$ SECOND CAN BE ACHIEVED. A 2-PHASE CLOCK IS REQUIRED TO DRIVE INPUTS $\phi 1$ AND $\phi 2$. INPUT DATA RIDES THROUGH THE SAD ON ALTERNATING CLOCK PULSES AND APPEAR AT THE TWO OUTPUTS AFTER PASSING THROUGH ALL 512 STAGES. CONNECT V_{bb} TO V_{DD} (PIN 7) OR, FOR OPTIMUM RESULTS, TO 1 VOLT BELOW V_{DD} . THIS CHIP CAN BE TRICKY TO USE SINCE SEVERAL EXTERNAL ADJUSTMENTS ARE REQUIRED. CIRCUITS ON THIS PAGE EXPLAIN OPERATING REQUIREMENTS WHILE A COMPLETE CIRCUIT IS SHOWN ON FACING PAGE.



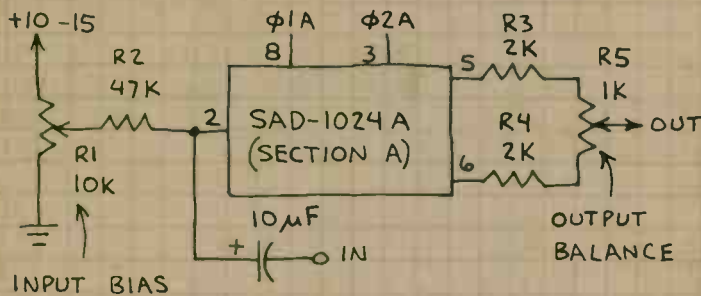
CAUTION: THIS NMOS CHIP IS VULNERABLE TO DAMAGE FROM STATIC DISCHARGE! FOLLOW CMOS HANDLING PROCEDURES.

SERIAL OPERATION

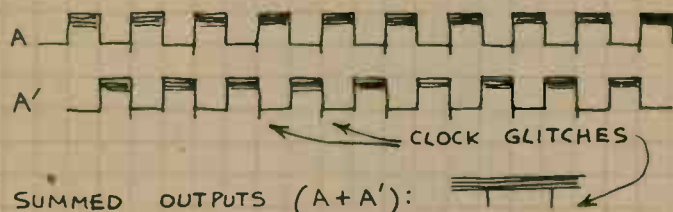


R1 CONTROLS BIAS TO SECTION B. NOTE THAT ONLY ONE OUTPUT OF A IS CONNECTED TO INPUT OF B.

SAD IN/OUT CONTROLS



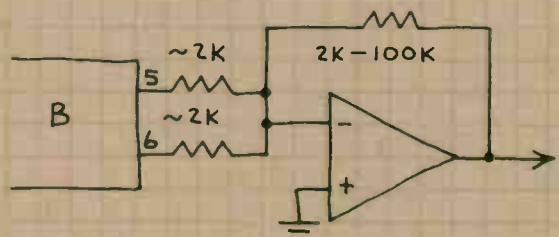
ADJUST R1 (INPUT BIAS) FOR OPTIMUM AUDIO OUTPUT. OUTPUTS APPEAR LIKE THIS ON A SCOPE:



SET SCOPE TO VISUALIZE INPUT SIGNAL (COMPRESSING CLOCK RATE):



OUTPUT SUMMER

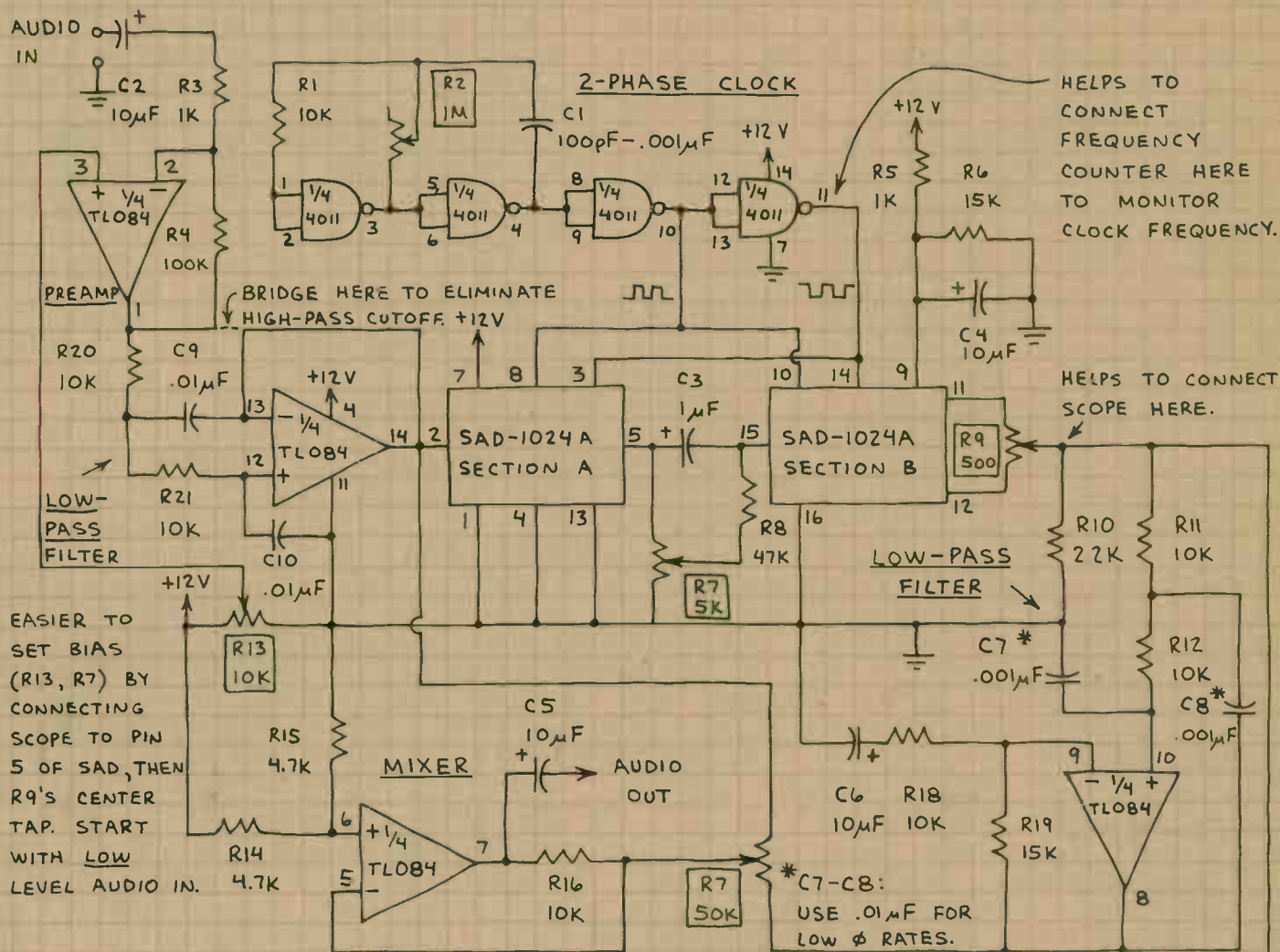


ANY OP-AMP CAN BE USED, BUT LOW NOISE FET INPUT TYPES ARE BEST.

DUAL ANALOG DELAY LINE (CONTINUED)

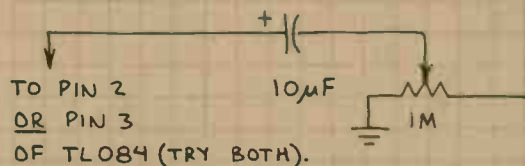
SAD-1024A

ADJUSTABLE FLANGER OR PHASER



ADJUST CIRCUIT FOR DESIRED EFFECT BY CONNECTING TRANSISTOR RADIO TO AUDIO INPUT. TUNE RADIO TO A TALK SHOW FOR BEST RESULTS. R13 AND R7 CONTROL BIAS TO SECTIONS A AND B OF THE SAD. R9 BALANCES THE SAD OUTPUTS. R2 CONTROLS THE CLOCK RATE. R17 IS THE MAIN BALANCE CONTROL. IT CONTROLS THE RELATIVE AMPLITUDES OF THE ORIGINAL AND DELAYED SIGNAL APPLIED TO THE MIXER. CONNECT THE OUTPUT TO A POWER AMPLIFIER. YOU MUST ADJUST BIAS CONTROLS PROPERLY FOR BEST RESULTS. SET R2 FOR LOW FREQUENCIES (3-8KHz) FOR SINGLE ECHO. USE HIGHER CLOCK FREQUENCIES (20-100 KHz) FOR HOLLOW, SWISHY SOUNDS. NOTE: THIS CIRCUIT IS NOT FOR BEGINNERS.

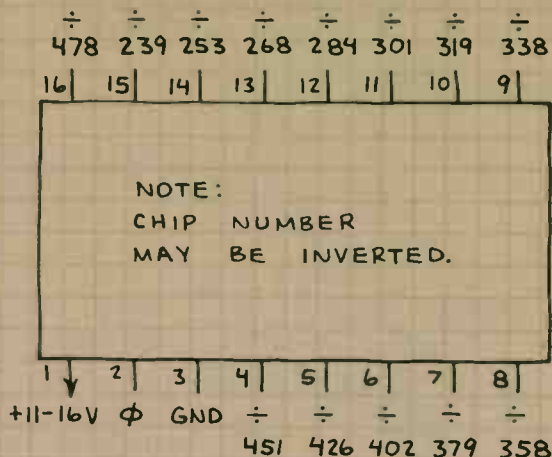
REVERBERATOR



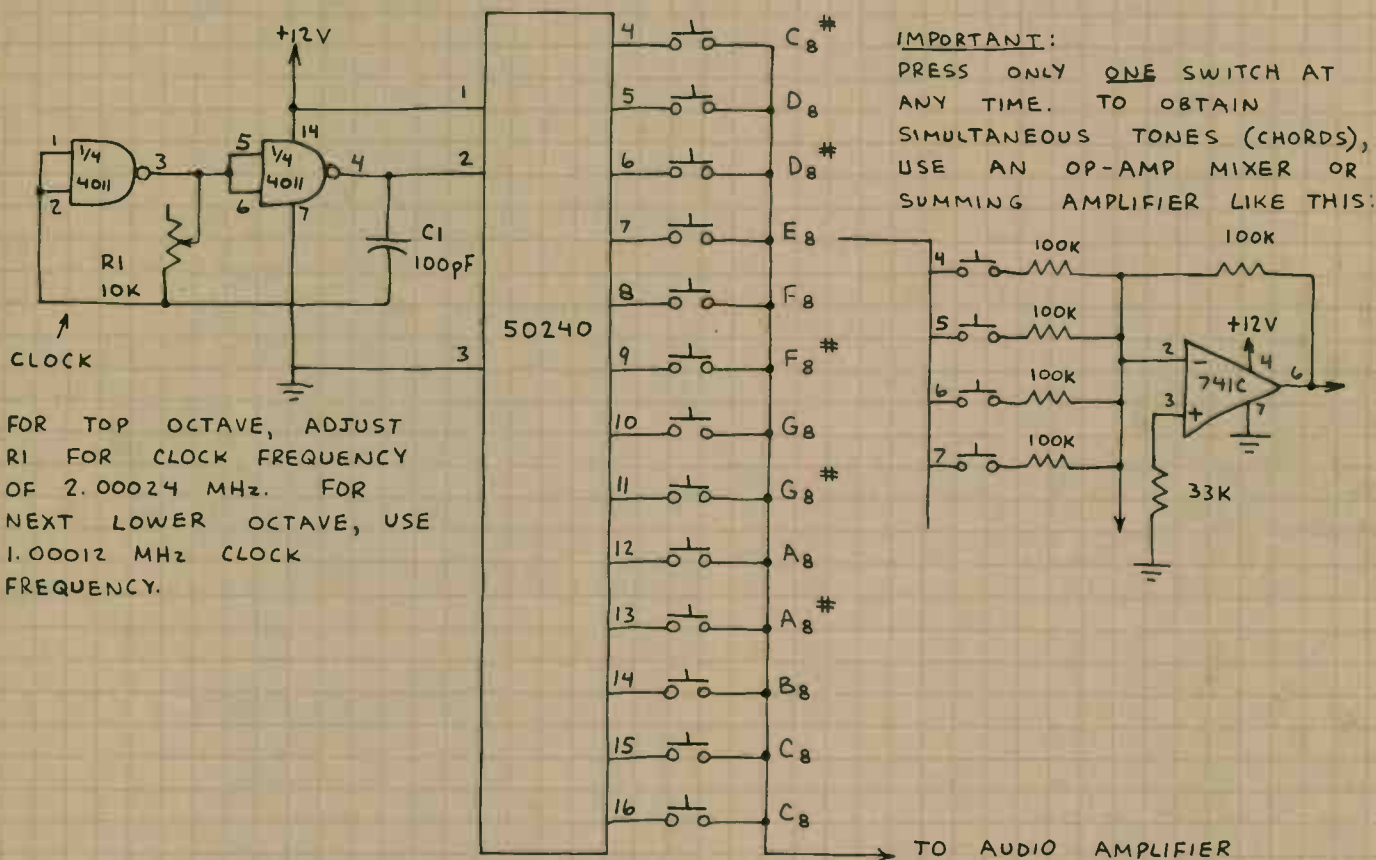
ADD THIS FEEDBACK CIRCUIT FOR UNUSUAL REVERBERATION EFFECTS. SLOW CLOCK FREQUENCIES GIVE MOST STRIKING REVERBERATIONS. TRY 5-20 KHz. FASTER CLOCK (20-100 KHz) AND CAREFUL ADJUSTMENT GIVES ROBOT-LIKE SOUND USED IN SOME SCIENCE FICTION MOVIES.

TOP OCTAVE SYNTHESIZER 550240

THIS PMOS CHIP ACCEPTS AN INPUT FREQUENCY (ϕ) AND THEN DIVIDES IT INTO A FULL OCTAVE PLUS ONE NOTE ON THE EQUALLY TEMPERED SCALE. THIS CHIP IS IDEAL FOR MUSIC SYNTHESIZERS, ORGANS, ETC. FOR TOP OCTAVE OPERATION, ϕ SHOULD BE 2.00024 MHz; LOWER FREQUENCIES GIVE LOWER OCTAVES.

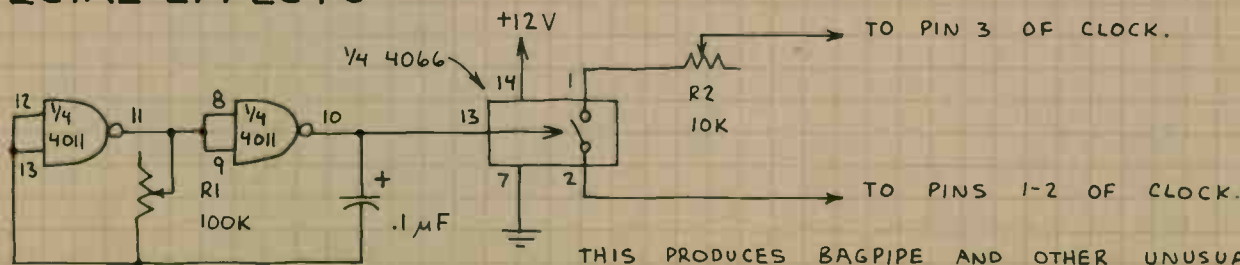


ADJUSTABLE OCTAVE SYNTHESIZER



FOR TOP OCTAVE, ADJUST R1 FOR CLOCK FREQUENCY OF 2.00024 MHz. FOR NEXT LOWER OCTAVE, USE 1.00012 MHz CLOCK FREQUENCY.

SPECIAL EFFECTS

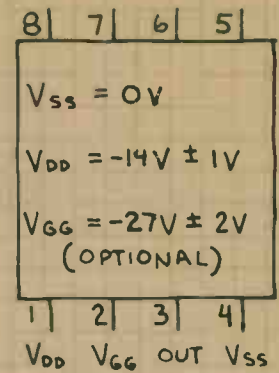


THIS PRODUCES BAGPIPE AND OTHER UNUSUAL SOUNDS. ADJUST R1 TO VARY INTERRUPTION RATE.

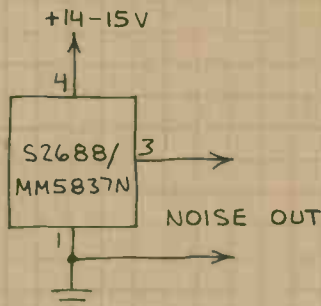
NOISE GENERATOR

S2688 / MM5837N

PRODUCES BROADBAND WHITE NOISE FOR AUDIO AND OTHER APPLICATIONS. THE NOISE QUALITY IS VERY UNIFORM. IT IS PRODUCED BY A 17-BIT SHIFT REGISTER WHICH IS CLOCKED BY AN INTERNAL OSCILLATOR.

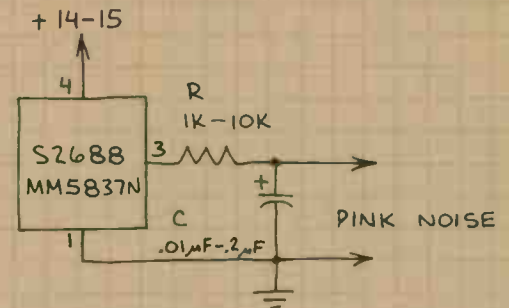


WHITE NOISE SOURCE



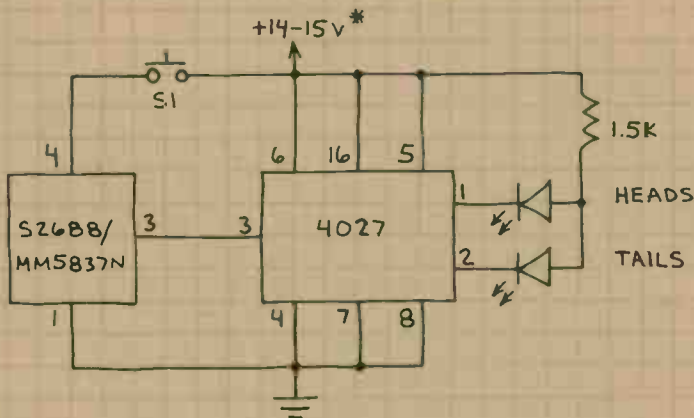
CONNECT OUTPUT TO AUDIO AMPLIFIER TO HEAR NOISE. USE 7815 VOLTAGE REGULATOR TO OBTAIN +15 VOLTS.

PINK NOISE SOURCE



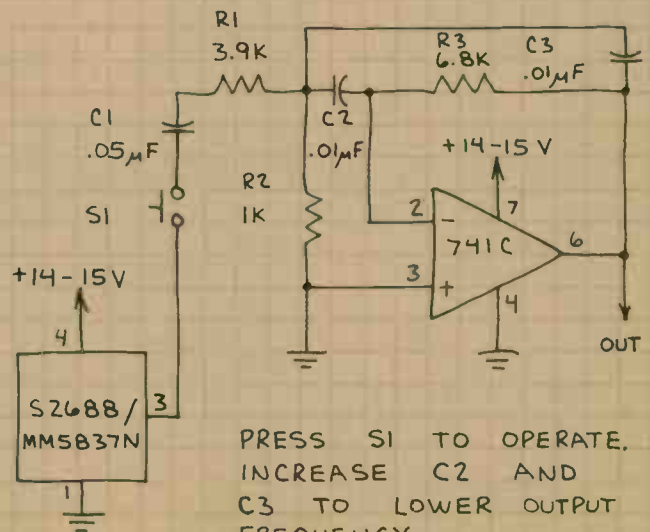
CHANGE R AND C TO ALTER NOISE SPECTRUM. ALSO, TRY LOWER SUPPLY VOLTAGES TO CHANGE SPECTRUM.

COIN TOSSEY



PRESS S1; BOTH LEDS GLOW. RELEASE S1 AND ONLY ONE GLOWS. GROUND INPUTS OF UNUSED HALF OF 4027 (PINS 9, 10, 11, 12 AND 13). *(OK TO USE 9-VOLT BATTERY AS POWER SUPPLY.)

SNARE / BRUSH NOISE

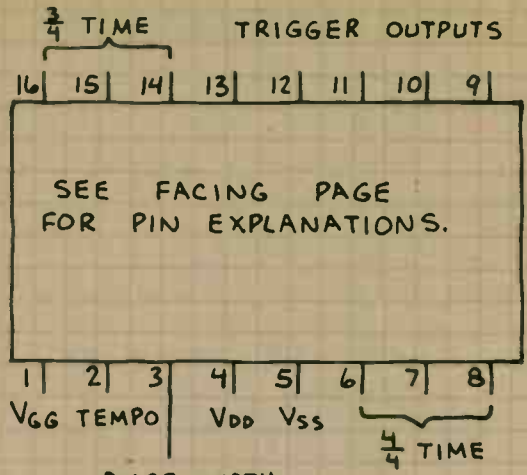


PRESS S1 TO OPERATE. INCREASE C2 AND C3 TO LOWER OUTPUT FREQUENCY.

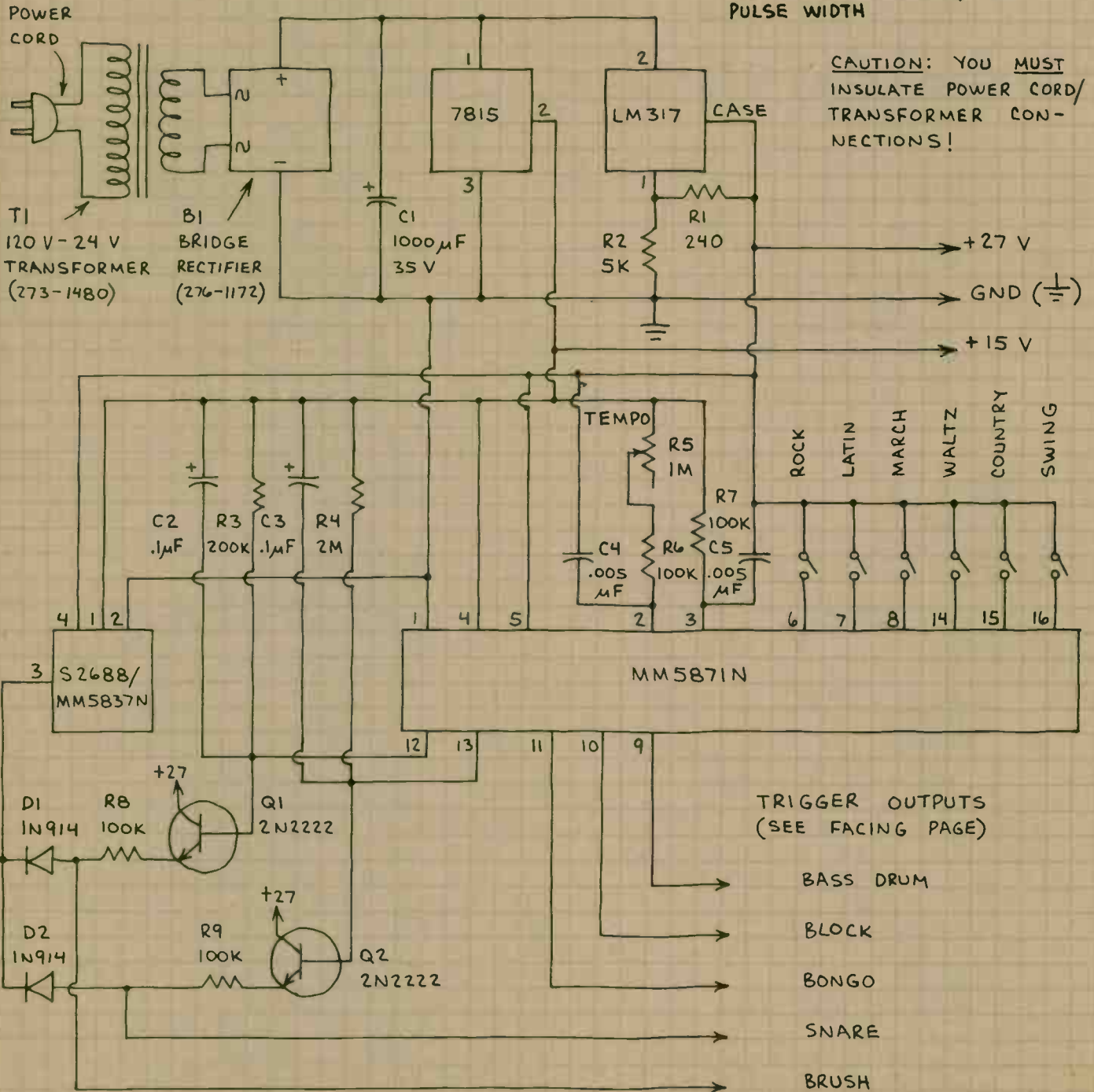
RHYTHM PATTERN GENERATOR

MM5871

PRODUCES SIX DIFFERENT RHYTHM PATTERNS AND TRIGGERS FIVE DIFFERENT INSTRUMENTS. ADJUSTABLE TEMPO. COMPLICATED TO USE, BUT WELL WORTH THE EFFORT.



RHYTHM BOX



CAUTION: YOU MUST INSULATE POWER CORD/ TRANSFORMER CONNECTIONS!

RHYTHM PATTERN GENERATOR (CONTINUED)

MM5871

PERCUSSION SYNTHESIZERS:

OK TO TUNE BY MAKING SLIGHT CHANGES TO RC COMPONENTS.

MM5871 PIN EXPLANATIONS:

- 1 - V_{GG} (-27V ± 2V)
- 2 - TEMPO CONTROL (RC NETWORK)
- 3 - TRIGGER OUTPUT PULSE WIDTH CONTROL (RC NETWORK)
- 4 - V_{DD} (-14V ± 2V)
- 5 - V_{SS} (0V)

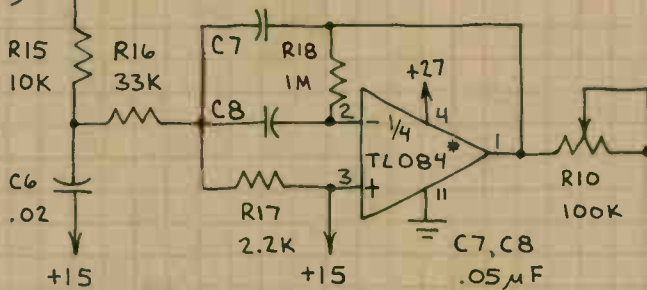
- PATTERN SELECT INPUTS -
- 6 - ROCK 8 - MARCH 15 - C/W
 - 7 - LATIN 14 - WALTZ 16 - SWING

- TRIGGER OUTPUTS -
- 9 - BASS 11 - BONGO 13 - SNARE
 - 10 - BLOCK 12 - BRUSH

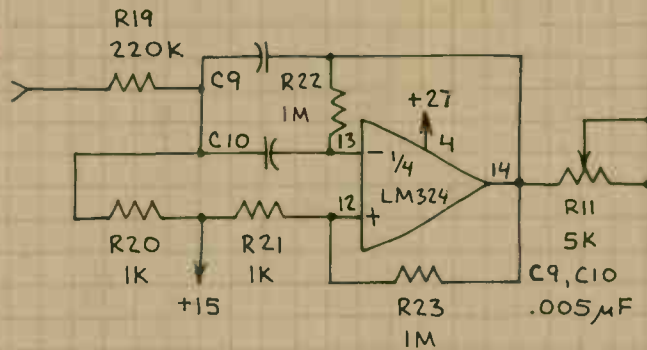
RHYTHM BOX OPERATION:

POTS R10-R14 CONTROL VOLUME OF EACH INSTRUMENT. EXPERIMENT WITH SETTINGS FOR BEST RESULTS. OK TO SELECT TWO OR MORE PATTERNS SIMULTANEOUSLY!

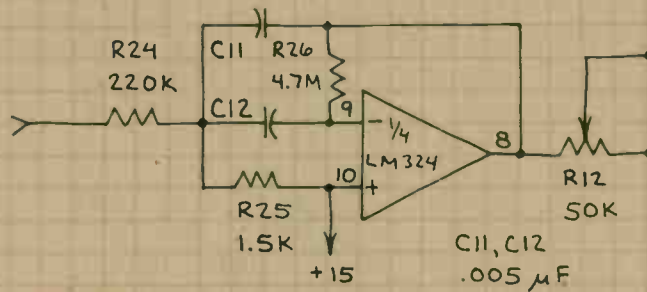
BASS DRUM



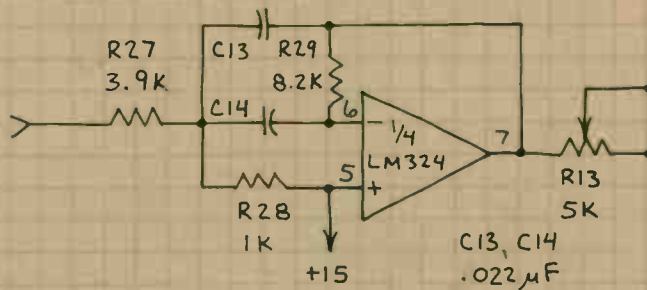
BLOCK



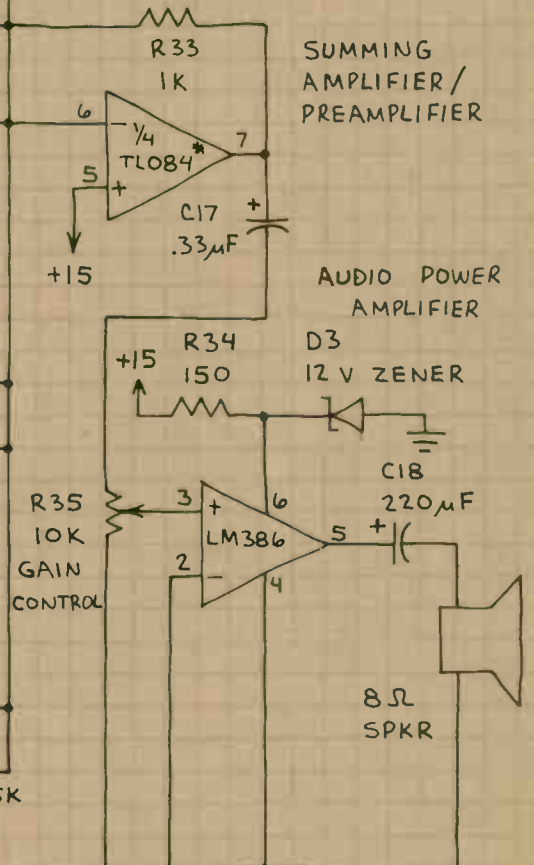
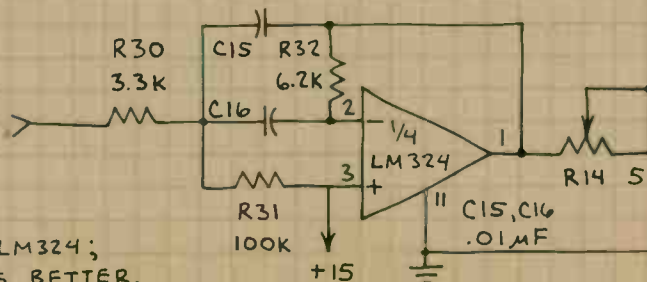
BONGO



SNARE



BRUSH



SUMMING AMPLIFIER/PREAMPLIFIER

AUDIO POWER AMPLIFIER

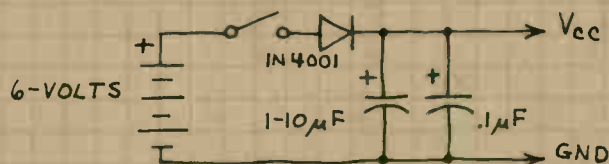
* OK TO USE LM324; TLO84 WORKS BETTER.

NOTES

TTL/LS INTEGRATED CIRCUITS

INTRODUCTION

TTL IS THE BEST ESTABLISHED AND MOST DIVERSIFIED IC FAMILY. LS IS FUNCTIONALLY IDENTICAL TO TTL BUT IS SLIGHTLY FASTER AND USES 80% LESS POWER. TTL/LS CHIPS REQUIRE A REGULATED 4.75-5.25 VOLT POWER SUPPLY. HERE'S A SIMPLE BATTERY SUPPLY:



THE DIODE DROPS THE BATTERY VOLTAGE TO A SAFE LEVEL. BOTH CAPACITORS SHOULD BE INSTALLED ON THE TTL/LS CIRCUIT BOARD. CIRCUITS WITH LOTS OF TTL/LS CHIPS CAN USE LOTS OF CURRENT. USE A COMMERCIAL 5 VOLT LINE POWERED SUPPLY TO SAVE BATTERIES. OR MAKE YOUR OWN. (SEE THE 7805 ON PAGE 94.)

OPERATING REQUIREMENTS

1. V_{cc} MUST NOT EXCEED 5.25 VOLTS.
2. INPUT SIGNALS MUST NEVER EXCEED V_{cc} AND SHOULD NOT FALL BELOW GND.
3. UNCONNECTED TTL/LS INPUTS USUALLY ASSUME THE H STATE ... BUT DON'T COUNT ON IT! IF AN INPUT IS SUPPOSED TO BE FIXED AT H, CONNECT IT TO V_{cc} .
4. IF AN INPUT IS SUPPOSED TO BE FIXED AT L, CONNECT IT TO GND.
5. CONNECT UNUSED AND/NAND/OR INPUTS TO A USED INPUT OF THE SAME CHIP.
6. FORCE OUTPUTS OF UNUSED GATES H TO SAVE CURRENT (NAND—ONE INPUT H; NOR—ALL INPUTS L).

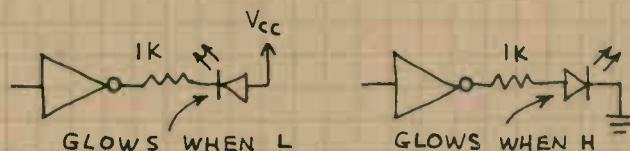
7. USE AT LEAST ONE DECOUPLING CAPACITOR (0.01-0.1 μ F) FOR EVERY 5-10 GATE PACKAGES, ONE FOR EVERY 2-5 COUNTERS AND REGISTERS AND ONE FOR EACH ONE-SHOT. DECOUPLING CAPACITORS NEUTRALIZE THE HEFTY POWER SUPPLY SPIKES THAT OCCUR WHEN A TTL/LS OUTPUT CHANGES STATES. THEY MUST HAVE SHORT LEADS AND BE CONNECTED FROM V_{cc} TO GND AS NEAR THE TTL/LS ICs AS POSSIBLE.

8. AVOID LONG WIRES WITHIN CIRCUITS

9. IF THE POWER SUPPLY IS NOT ON THE CIRCUIT BOARD, CONNECT A 1-10 μ F CAPACITOR ACROSS THE POWER LEADS WHERE THEY ARRIVE AT THE BOARD.

INTERFACING TTL/LS

1. 1 TTL OUTPUT WILL DRIVE UP TO 10 TTL OR 20 LS INPUTS.
2. 1 LS OUTPUT WILL DRIVE UP TO 5 TTL OR 10 LS INPUTS.
3. TTL/LS LED DRIVERS:

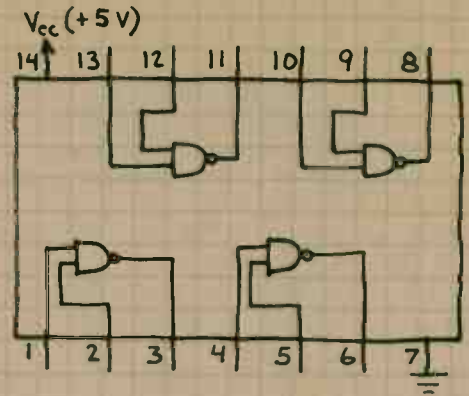


TTL/LS TROUBLESHOOTING

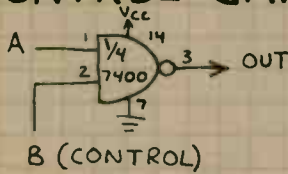
1. DO ALL INPUTS GO SOMEWHERE?
2. ARE ALL IC PINS INSERTED INTO THE BOARD OR SOCKET?
3. DOES THE CIRCUIT OBEY ALL TTL/LS OPERATING REQUIREMENTS?
4. HAVE YOU FORGOTTEN A CONNECTION?
5. HAVE YOU USED ENOUGH DECOUPLING CAPACITORS? ARE THEIR LEADS SHORT?
6. IS V_{cc} AT EACH CHIP WITHIN RANGE?

QUAD NAND GATE 7400/74LS00

THE BASIC BUILDING BLOCK CHIP FOR THE ENTIRE TTL FAMILY. VERY EASY TO USE. HUNDREDS OF APPLICATIONS.

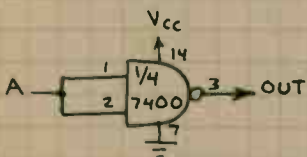


CONTROL GATE



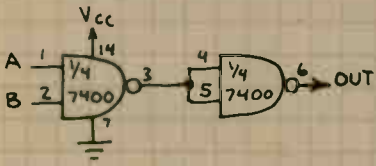
A	B	OUT
L	L	H
L	H	H
H	L	H
H	H	L

INVERTER



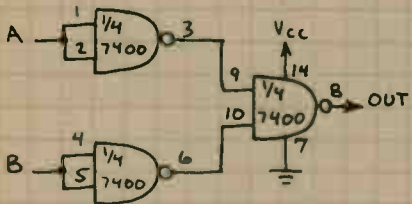
A	OUT
L	H
H	L

AND GATE



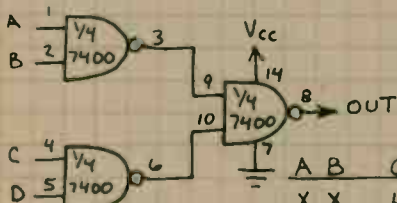
A	B	OUT
L	L	L
L	H	L
H	L	L
H	H	H

OR GATE



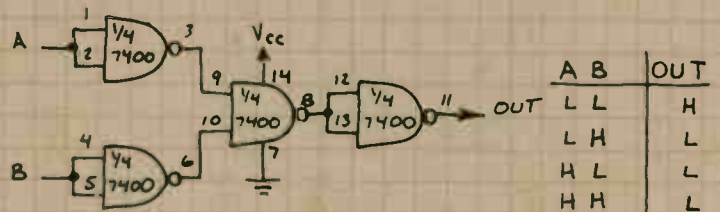
A	B	OUT
L	L	L
L	H	H
H	L	H
H	H	H

AND-OR GATE



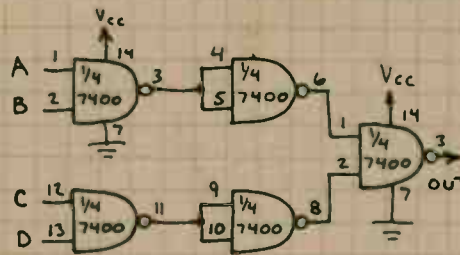
A	B	C	D	OUT
X	X	H	H	H
H	H	X	X	H
H	H	H	H	H

NOR GATE



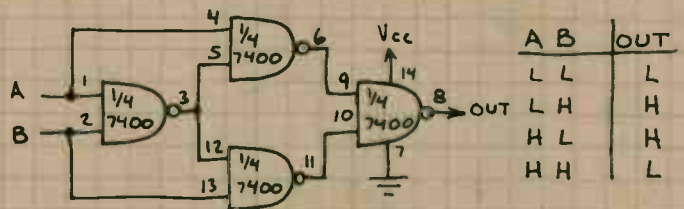
A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	L

4-INPUT NAND GATE



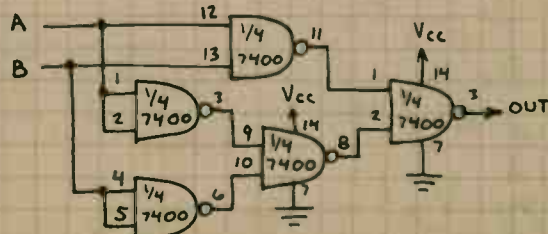
A	B	C	D	OUT
L	X	X	X	H
X	L	X	X	H
X	X	L	X	H
X	X	X	L	H
H	H	H	H	L

EXCLUSIVE-OR GATE



A	B	OUT
L	L	L
L	H	H
H	L	H
H	H	L

EXCLUSIVE-NOR GATE



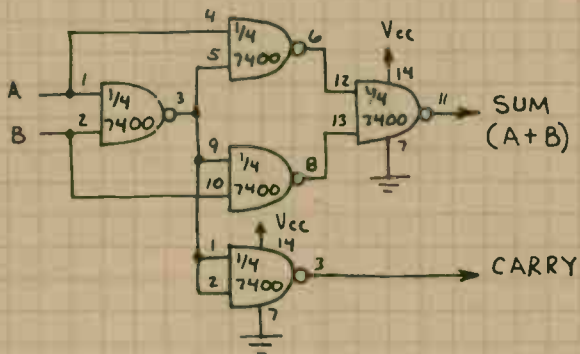
A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	H

NOTE: PIN NUMBERS CAN BE REARRANGED IF DESIRED.

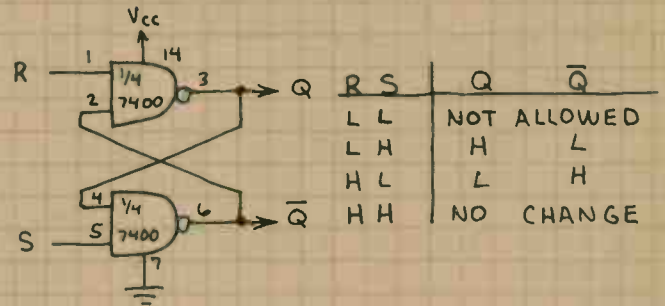
QUAD NAND GATE (CONTINUED)

7400/74LS00

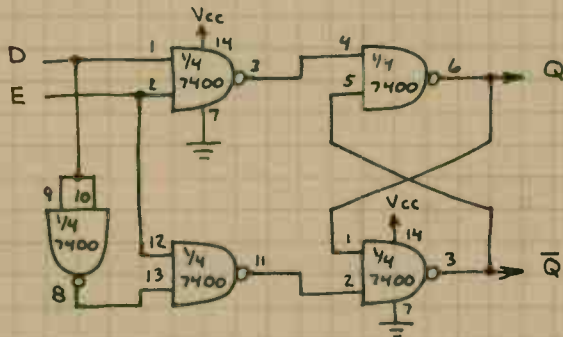
HALF ADDER



RS LATCH

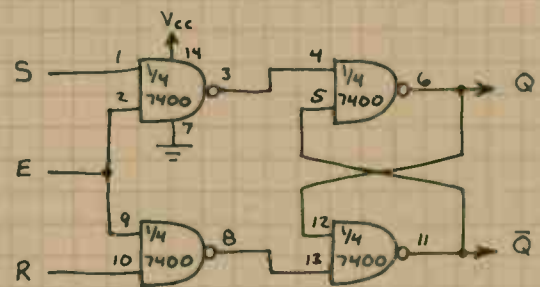


D FLIP-FLOP



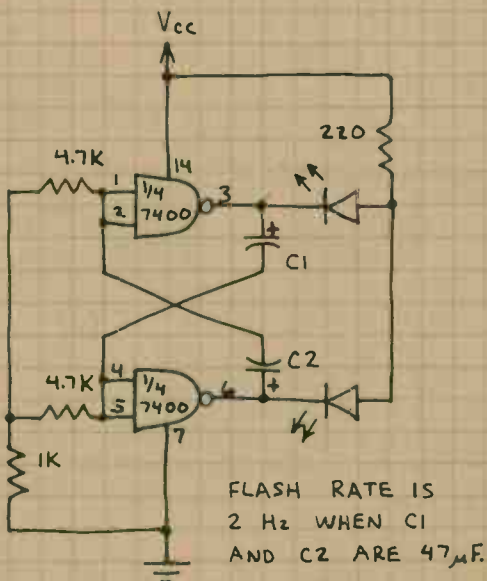
WHEN ENABLE (E) INPUT IS HIGH, Q OUTPUT FOLLOWS D INPUT. NO CHANGE WHEN E IS LOW.

GATED RS LATCH

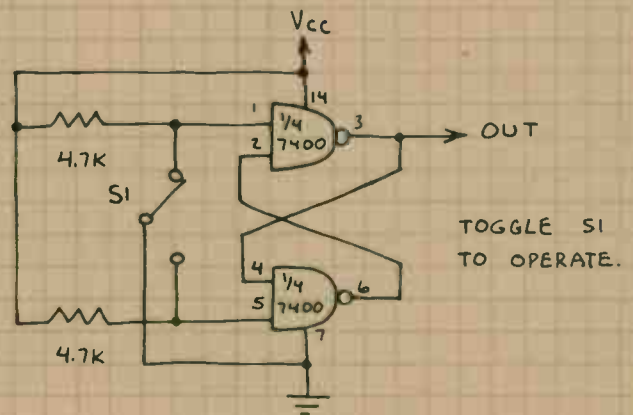


FUNCTIONS AS RS LATCH WHEN ENABLE (E) INPUT IS HIGH. IGNORES RS INPUTS WHEN E IS LOW.

LED DUAL FLASHER



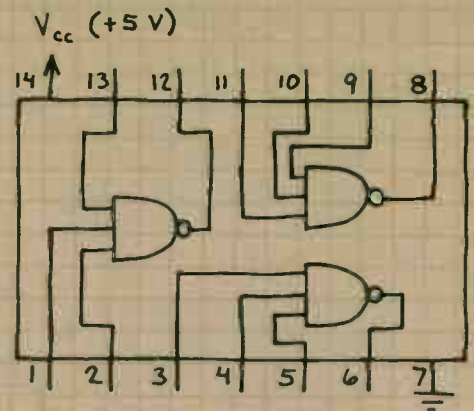
SWITCH DEBOUNCER



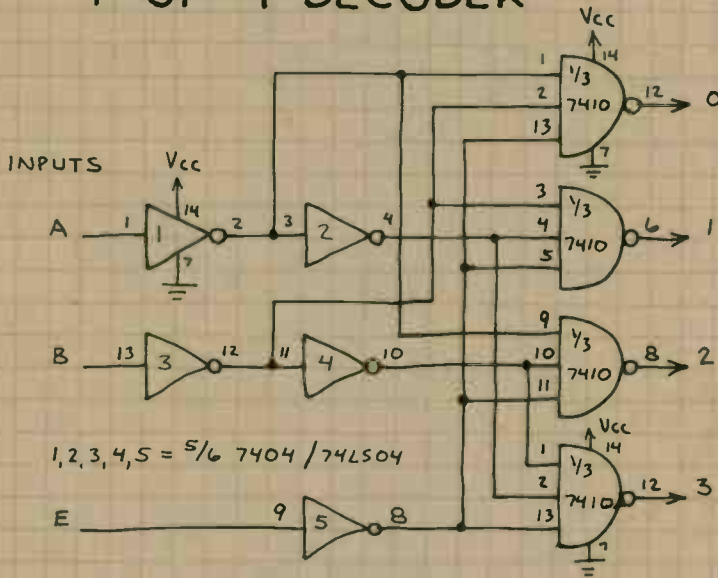
PROVIDES NOISE FREE OUTPUT FROM STANDARD SPDT TOGGLE SWITCH.

TRIPLE 3-INPUT NAND GATE 74LS10

VERY USEFUL IN DO-IT-YOURSELF DECODERS. ALSO VERY HANDY FOR ADDING ENABLE CONTROL TO DIGITAL CIRCUITS.

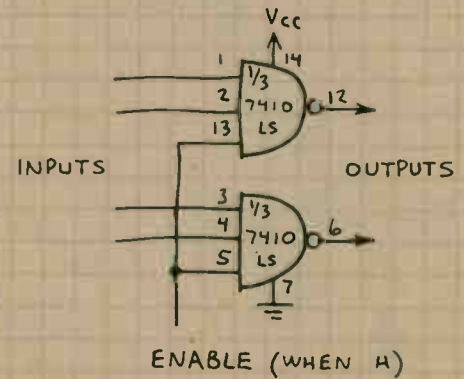


1-OF-4 DECODER



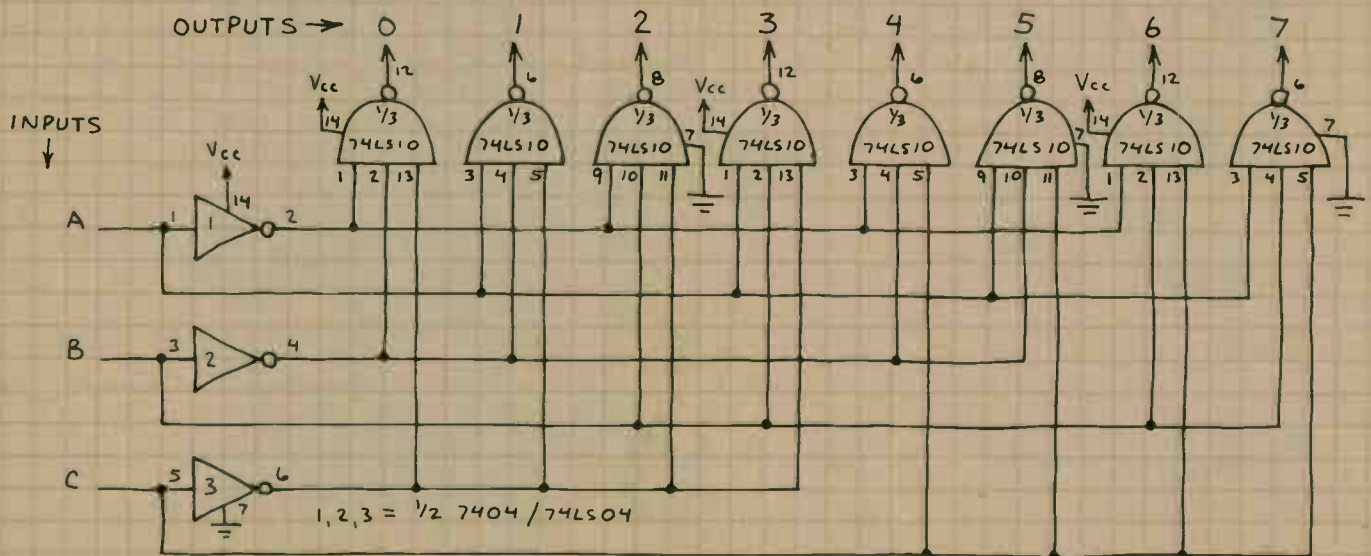
FOR EACH OF 4 POSSIBLE BINARY INPUTS (LL, LH, HL AND HH) ONE INPUT GOES LOW WHILE ALL OTHERS STAY HIGH. E SHOULD BE H.

ENABLE INPUT



TYPICAL ENABLE INPUT CIRCUIT. USE THIS METHOD TO CONTROL ONE OR MORE GATES.

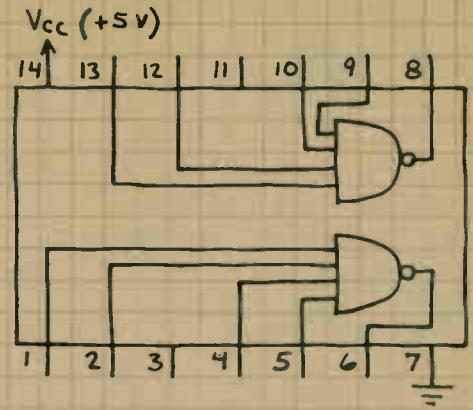
1-OF-8 DECODER



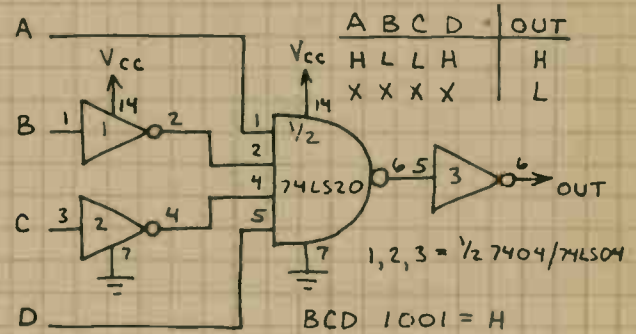
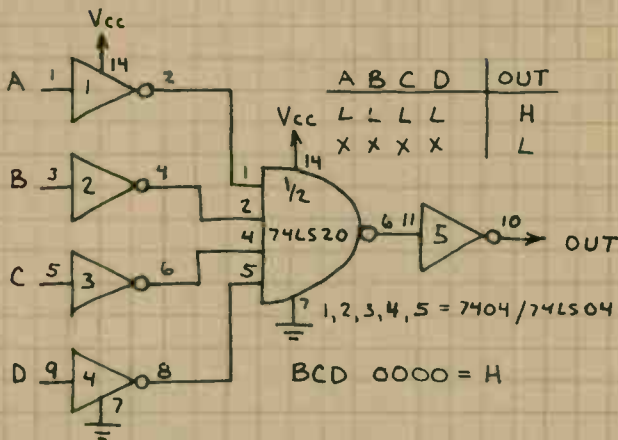
FOR EACH OF 8 POSSIBLE BINARY INPUTS (LLL, LLH, LHL... HHH), ONE OUTPUT GOES LOW WHILE ALL OTHERS STAY HIGH.

DUAL 4-INPUT NAND GATE 74LS20

MANY DECODER AND ENCODER APPLICATIONS. CAN BE USED AS DUAL 3-INPUT NAND GATE WITH ENABLE (CONTROL) INPUT FOR EACH GATE.

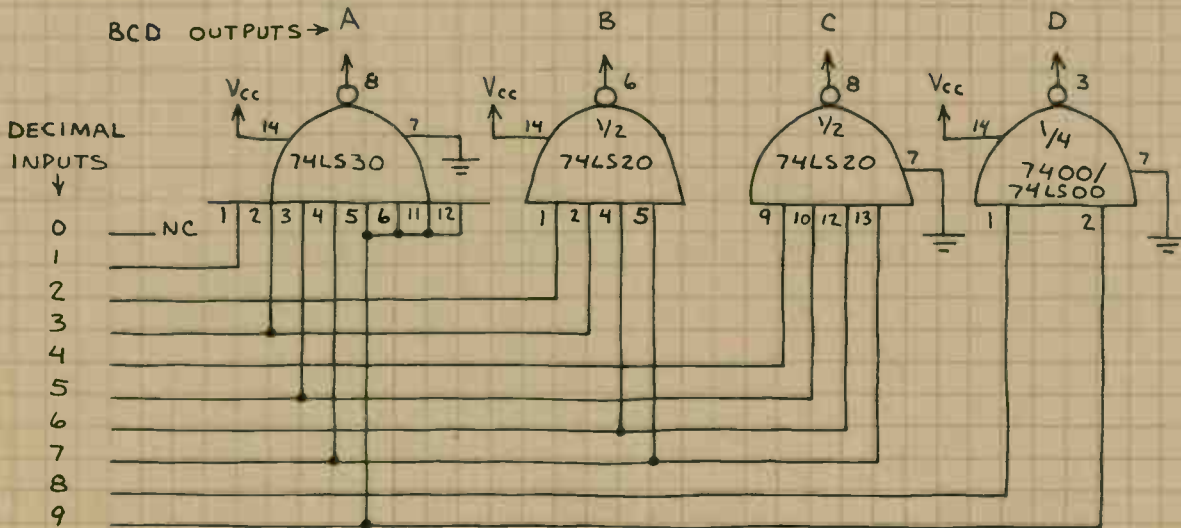


BCD DECODERS



OUTPUTS GO HIGH WHEN APPROPRIATE BCD WORD APPEARS AT INPUTS DCBA. OUTPUTS STAY LOW FOR ALL OTHER INPUTS. (OMIT FINAL INVERTER TO PROVIDE ACTIVE LOW OUTPUT.) USE THIS METHOD TO DECODE ANY 4-BIT NIBBLE.

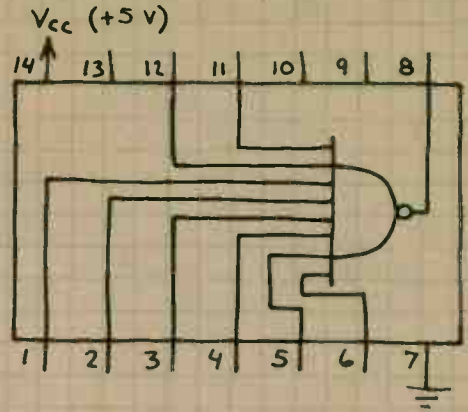
DECIMAL-TO-BINARY CODED DECIMAL (BCD) ENCODER



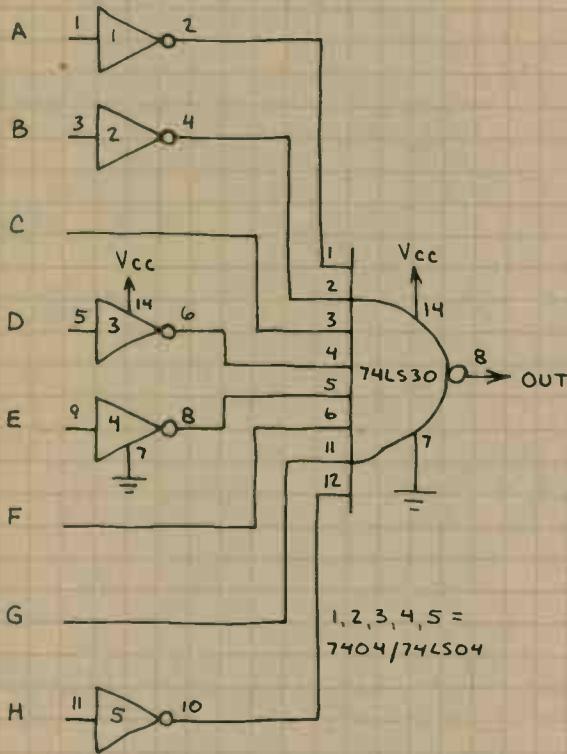
SELECTED INPUT SHOULD BE LOW AND ALL OTHER INPUTS SHOULD BE HIGH. BCD EQUIVALENT WILL APPEAR AT THE OUTPUTS.

8-INPUT NAND GATE 74LS30

HANDY FOR BYTE-SIZE (8-BIT) DECODING APPLICATIONS. CAN DECODE UP TO 256 INPUT COMBINATIONS. ALSO USEFUL AS PROGRAMMABLE NAND GATE.

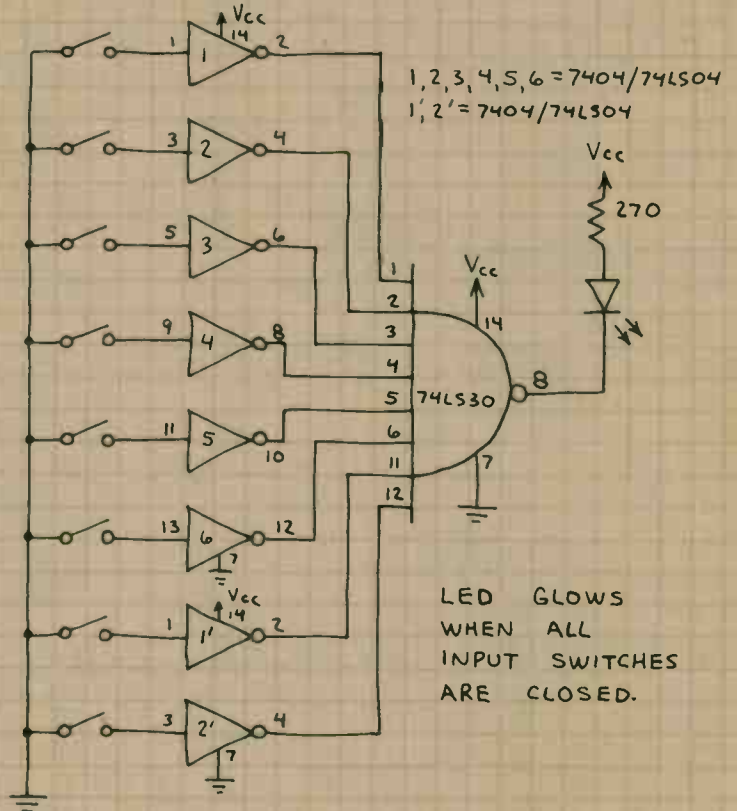


8-BIT DECODER



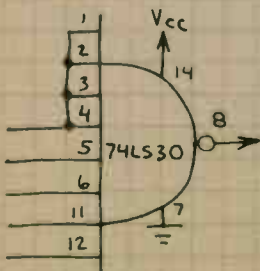
OUTPUT GOES LOW ONLY WHEN INPUT IS LHHLLHLL (DECIMAL 100). UP TO 256 INPUTS CAN BE DECODED BY REARRANGING UP TO 8 INPUT INVERTERS.

UNANIMOUS VOTE DETECTOR

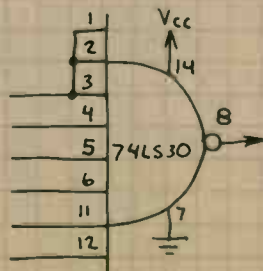


PROGRAMMABLE NAND GATES

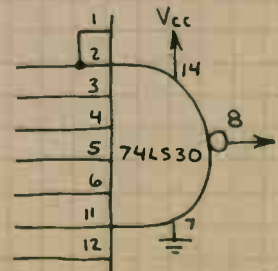
5-INPUT



6-INPUT

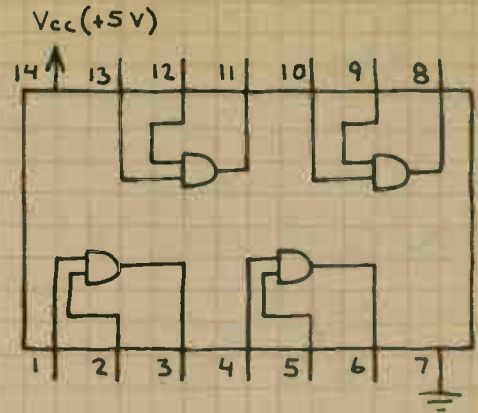


7-INPUT

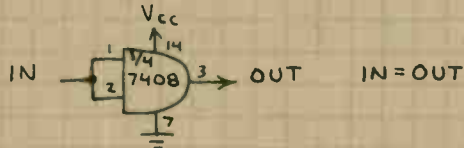


QUAD AND GATE 7408/74LS08

ONE OF THE BASIC BUILDING BLOCK CHIPS. NOT AS VERSATILE, HOWEVER, AS THE 7400/74LS00 QUAD NAND GATE.

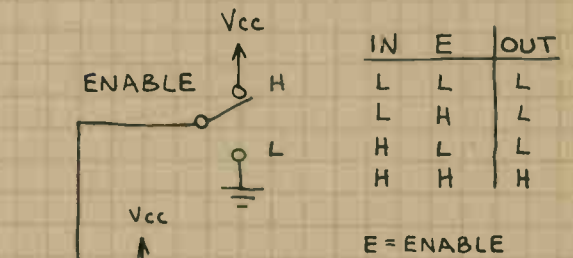


AND GATE BUFFER

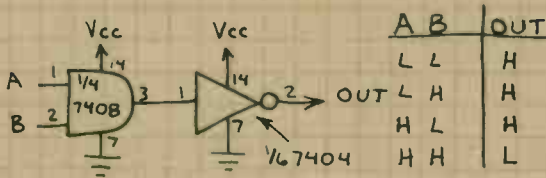


USE FOR INTERFACING WITHOUT CHANGING LOGIC STATES.

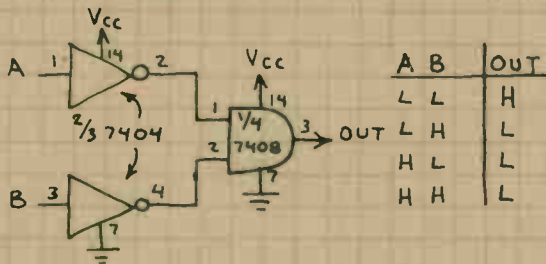
DIGITAL TRANSMISSION GATE



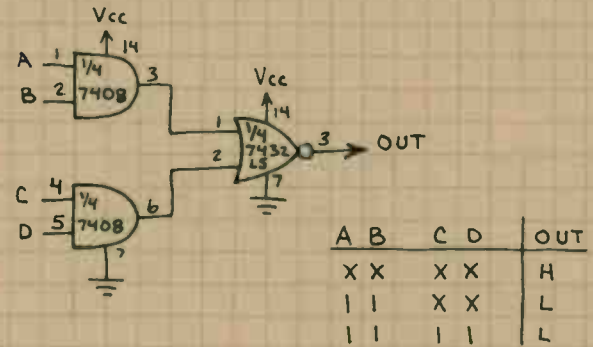
NAND GATE



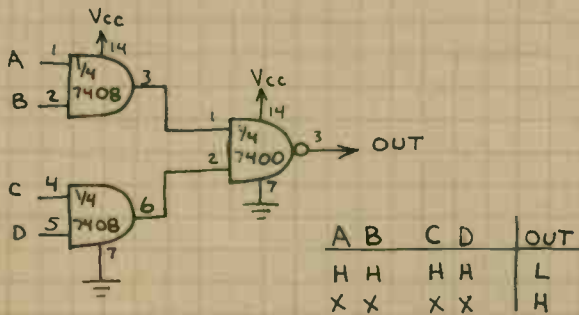
NOR GATE



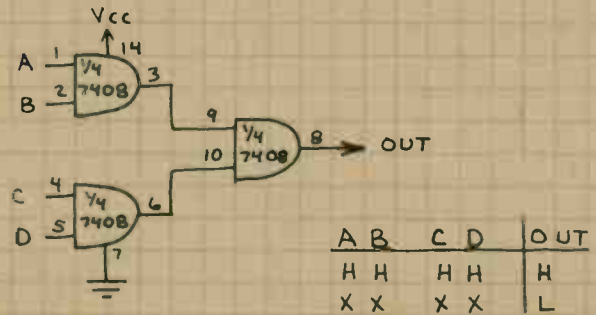
AND-OR-INVERT GATE



4-INPUT NAND GATE



4-INPUT AND GATE

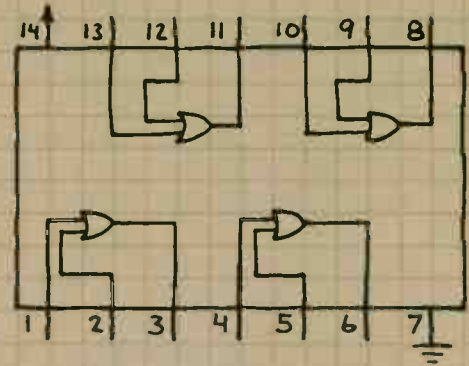


QUAD OR GATE

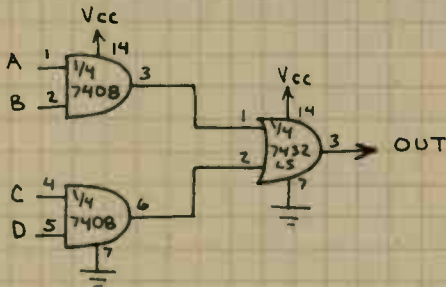
74LS32

FOUR 2-INPUT OR GATES.
NOT AS VERSATILE AS 7402/
74LS02 QUAD NOR GATE,
BUT VERY USEFUL IN SIMPLE
DATA SELECTORS.

Vcc (+5V)

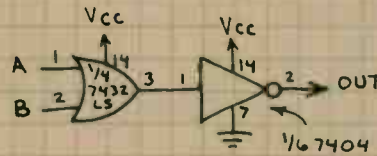


AND-OR CIRCUIT



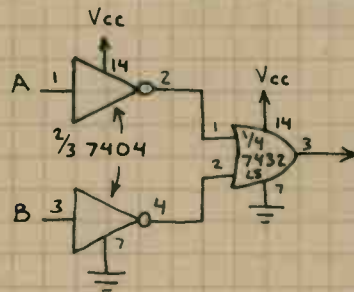
OUTPUT GOES HIGH WHEN BOTH
INPUTS OF EITHER OR BOTH AND
GATES ARE HIGH; OTHERWISE
THE OUTPUT IS LOW. THIS BASIC
CIRCUIT IS USED TO MAKE
DATA SELECTORS... AS SHOWN
BELOW

NOR GATE



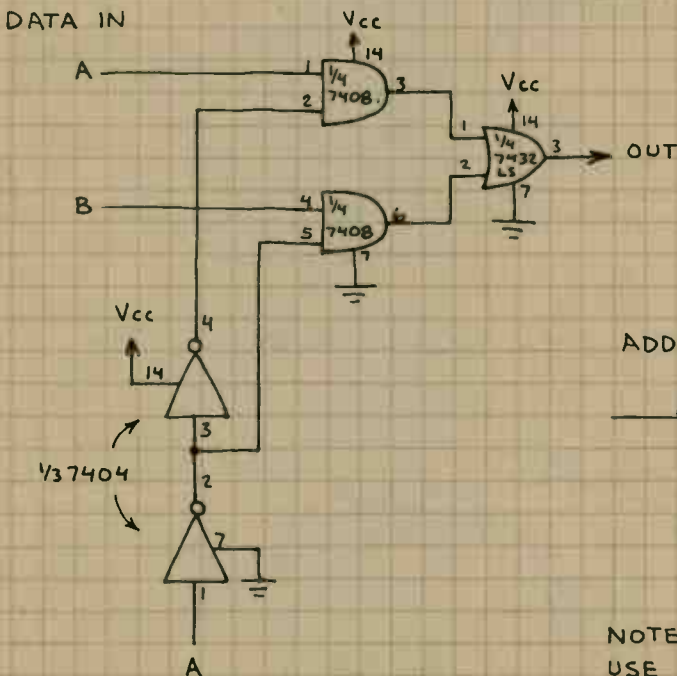
A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	L

NAND GATE



A	B	OUT
L	L	H
L	H	H
H	L	H
H	H	L

2-INPUT DATA SELECTOR



SELECTS 1-OF-2 INPUTS
AND TRANSMITS ITS
LOGIC STATE TO THE
OUTPUT.

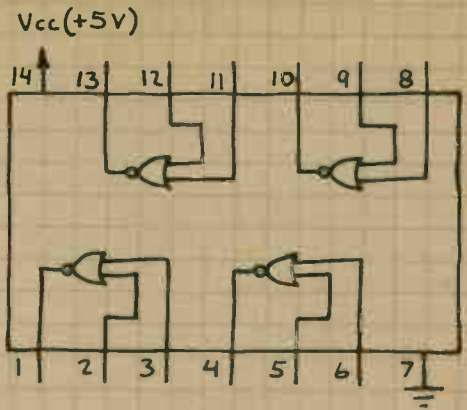
ADDRESS	DATA IN		OUT
	B	A	
L	X	L	L
L	X	H	H
H	L	X	L
H	H	X	H

NOTE: FOR 3-INPUT DATA SELECTOR,
USE 74LS27 NOR GATE FOLLOWED
BY INVERTER AND PRECEDED BY
74LS10 3-INPUT AND GATES.

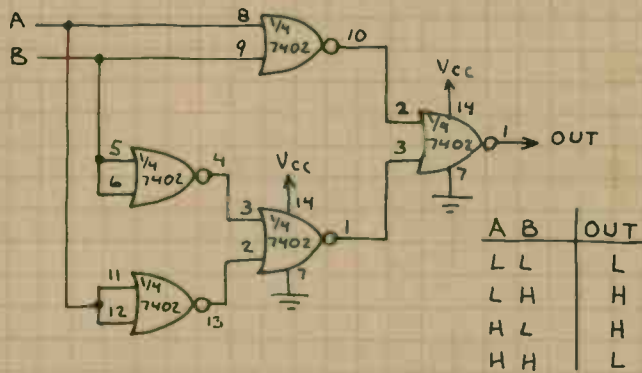
ADDRESS (DATA SELECT)

QUAD NOR GATE 7402/74LS02

JUST AS VERSATILE AS THE 7400/74LS00 QUAD NAND GATE... BUT NOT USED AS OFTEN. ADD INVERTER (7404/74LS04) TO BOTH INPUTS OF A NOR GATE AND AN AND GATE IS FORMED.

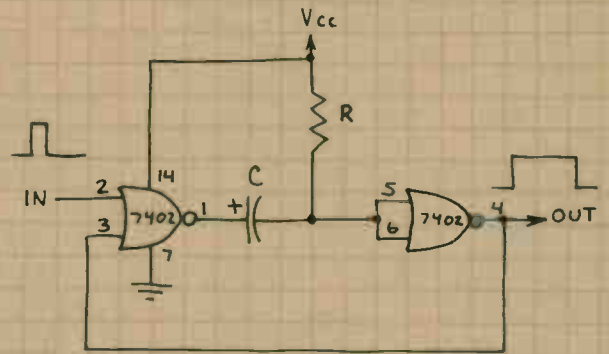


EXCLUSIVE-OR GATE



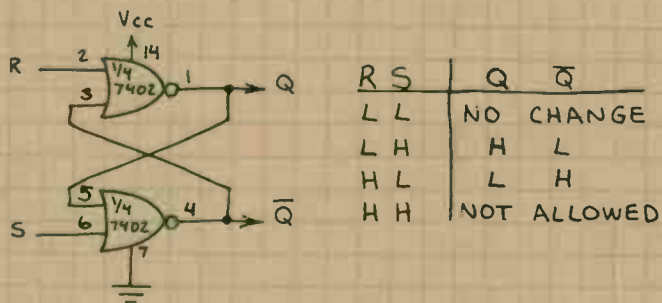
THIS CIRCUIT IS EQUIVALENT TO A BINARY HALF-ADDER.

ONE-SHOT

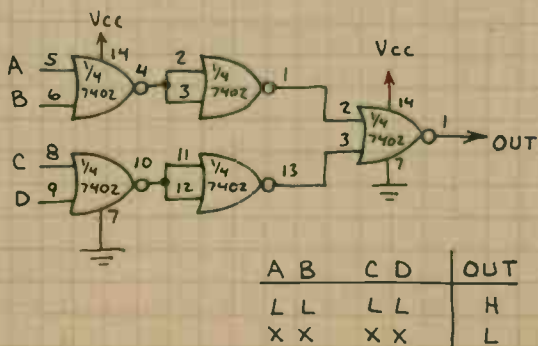


THIS CIRCUIT IS A MONOSTABLE MULTIVIBRATOR OR PULSE STRETCHER. AN INPUT PULSE TRIGGERS AN OUTPUT PULSE WITH A DURATION DETERMINED BY R AND C. OUTPUT PULSE WIDTH IS APPROXIMATELY 0.8RC.

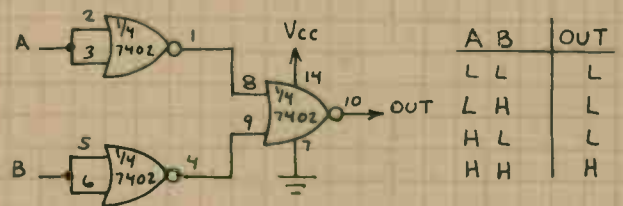
RS LATCH



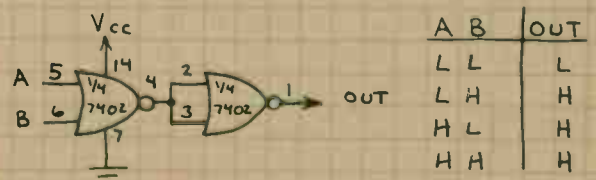
4-INPUT NOR GATE



AND GATE

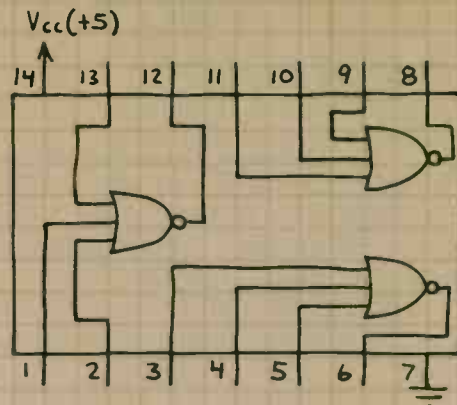


OR GATE

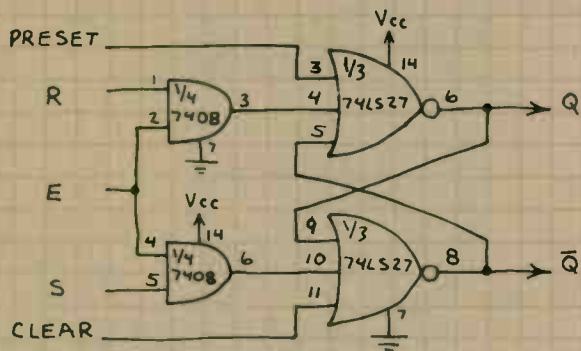


TRIPLE 3-INPUT NOR GATE 74LS27

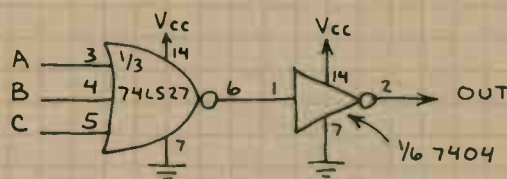
USEFUL FOR DATA SELECTORS
AND NOR GATE FLIP-FLOPS
THAT REQUIRE CLEAR AND
PRESET INPUTS.



GATED RS LATCH

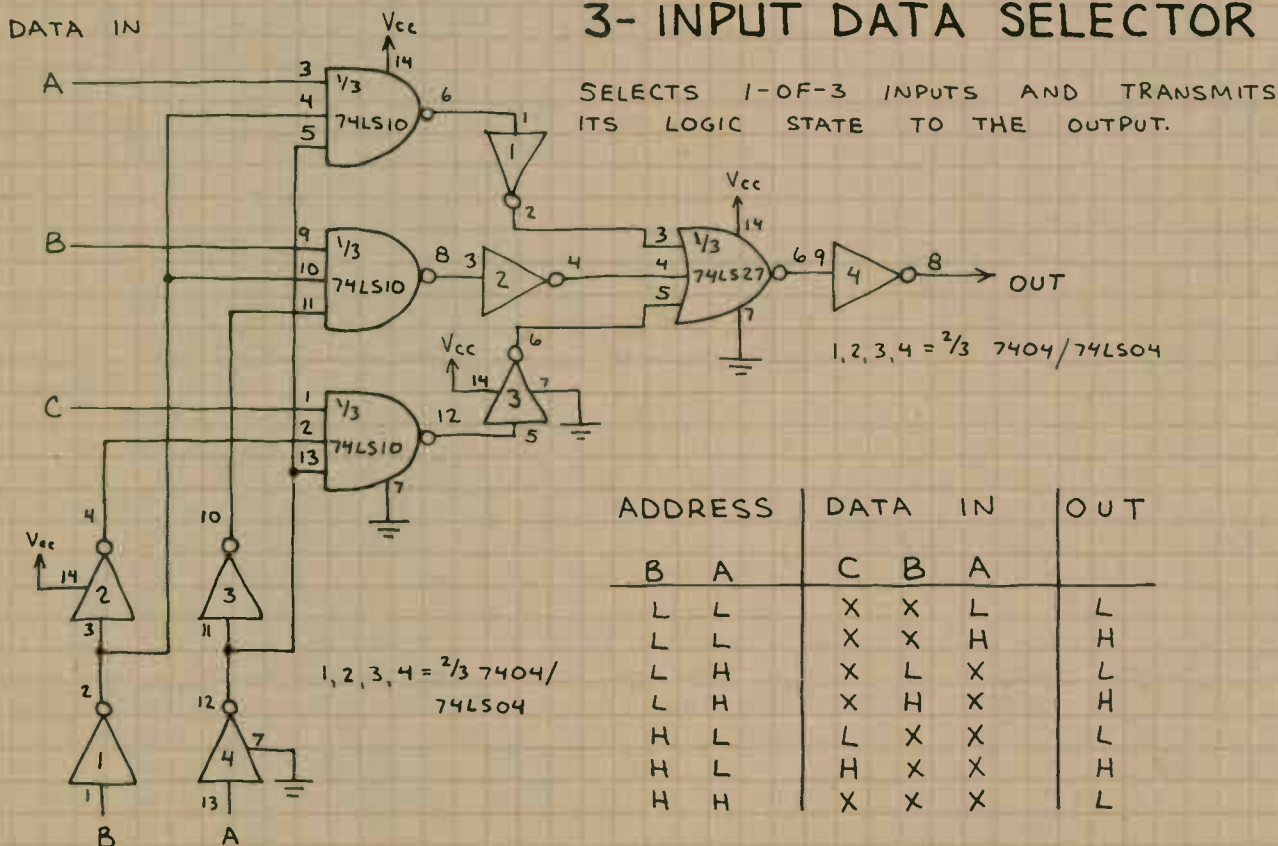


3-INPUT OR GATE



FUNCTIONS AS RS LATCH WHEN
E (ENABLE) INPUT IS HIGH. IGNORES
RS INPUTS WHEN E IS LOW.

3-INPUT DATA SELECTOR



ADDRESS		DATA IN			OUT
B	A	C	B	A	
L	L	X	X	L	L
L	L	X	X	H	H
L	H	X	L	X	L
L	H	X	H	X	H
H	L	L	X	X	L
H	L	H	X	X	H
H	H	X	X	X	L

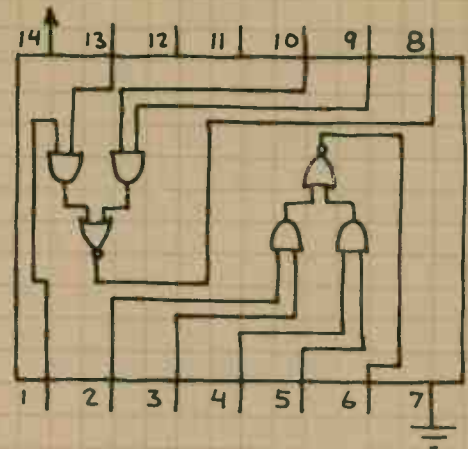
ADDRESS (DATA SELECT)

DUAL AND-OR-INVERT GATE

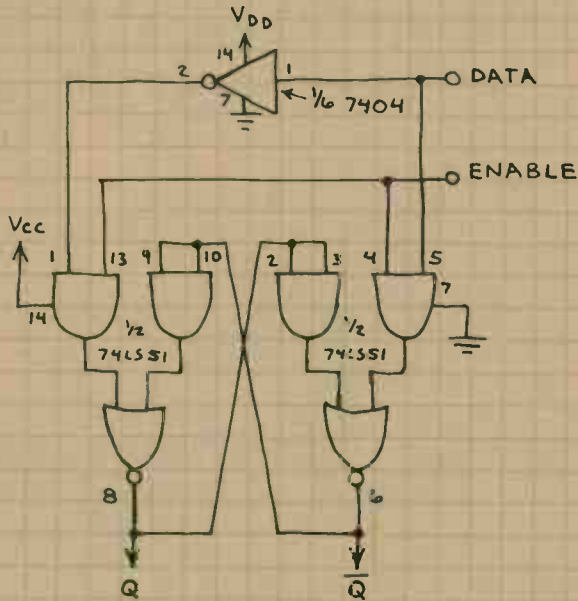
74LS51

VERY VERSATILE BUILDING BLOCK CHIP. IDEAL FOR CUSTOMIZED DATA SELECTORS, LATCHES AND EXPANSION OF A SINGLE INPUT TO AN AND-OR INPUT.

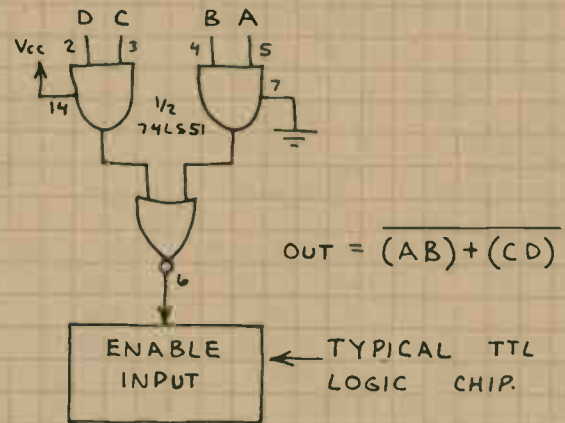
Vcc(+5V)



LATCH WITH ENABLE INPUT



TYPICAL AND-OR INPUT



$$OUT = \overline{(AB) + (CD)}$$

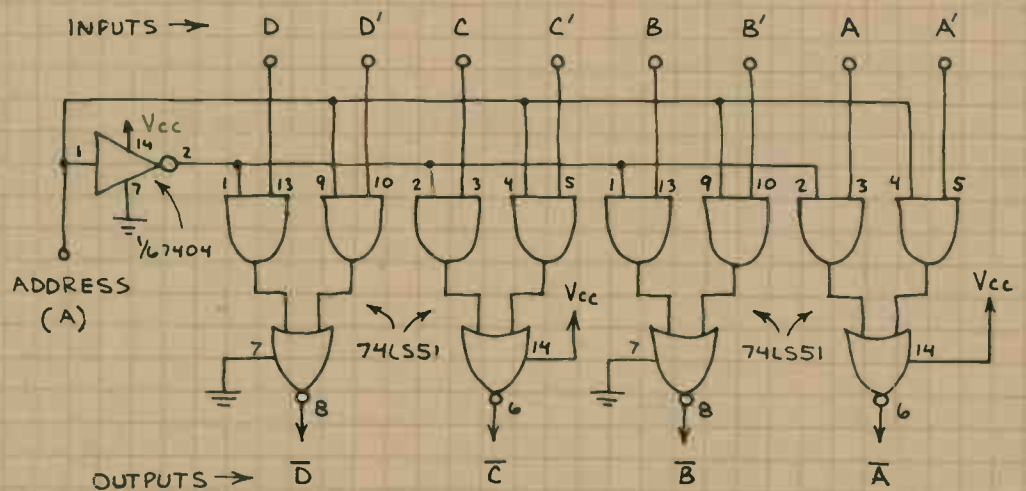
Q OUTPUT FOLLOWS DATA INPUT WHEN ENABLE INPUT IS HIGH. NO CHANGE WHEN ENABLE IS LOW.

THIS CIRCUIT SELECTS 1-OF-2 4-BIT WORDS.

NOTE THAT THE SELECTED WORD IS INVERTED AT THE OUTPUTS. THE CIRCUIT REQUIRES TWO 74LS51 CHIPS.

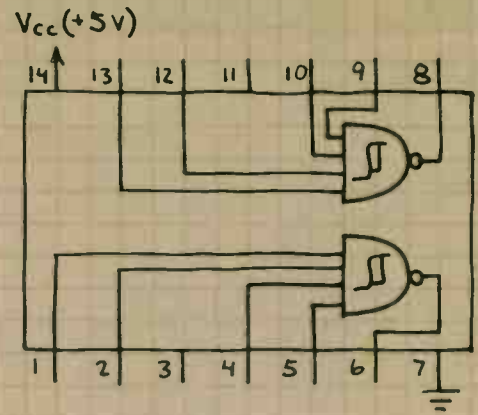
1-OF-2 DATA SELECTOR

A	INPUT		OUT
	X	X	
H	X	L	H
H	X	H	L
L	L	X	H
L	H	X	L

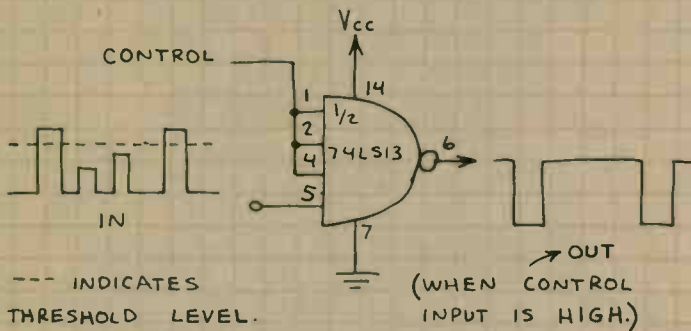


DUAL NAND SCHMITT TRIGGER 74LS13

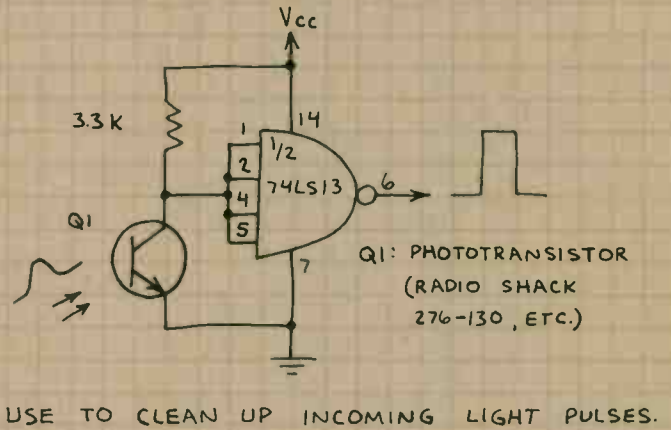
TWO 4-INPUT NAND GATES WITH A SWITCHING THRESHOLD. OUTPUTS GO LOW WHEN INPUTS EXCEED 1.7 VOLTS. OUTPUTS GO HIGH WHEN INPUTS FALL TO 0.9 VOLT. IF ANY INPUT IS LOW, THE RESPECTIVE OUTPUT WILL STAY HIGH AND THE GATE WILL NOT TRIGGER.



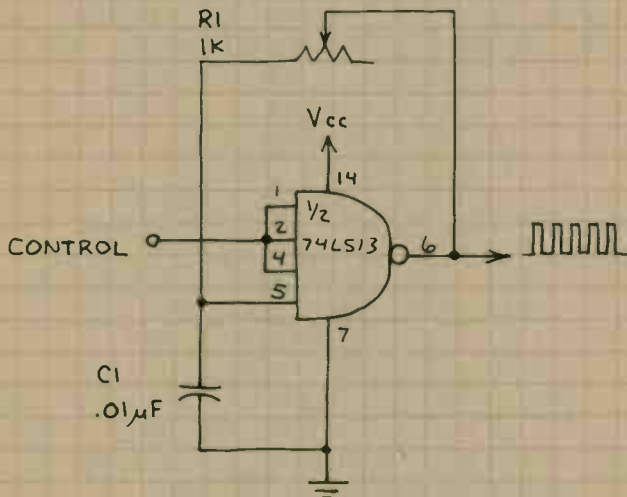
GATED THRESHOLD DETECTOR



PHOTOTRANSISTOR RECEIVER

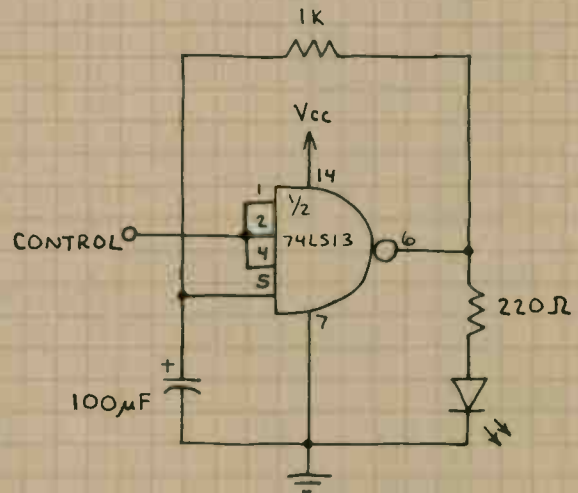


GATED OSCILLATOR



OSCILLATES WHEN CONTROL IS HIGH. CHANGE R_1 AND C_1 TO CHANGE FREQUENCY. OK TO USE THIS CIRCUIT AS GATED CLOCK FOR LOGIC CIRCUITS.

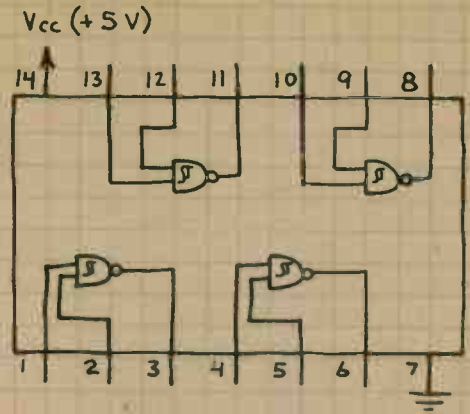
TWO-STATE LED FLASHER



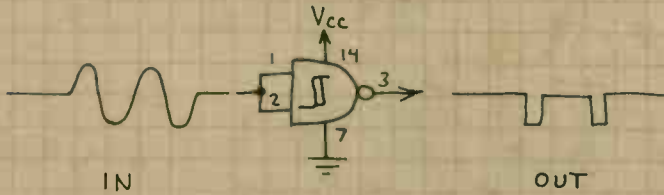
LED FLASHES TWICE EACH SECOND WHEN CONTROL INPUT IS HIGH. LED STAYS ON AND DOES NOT FLASH WHEN CONTROL IS LOW.

QUAD NAND SCHMITT TRIGGER 74LS132

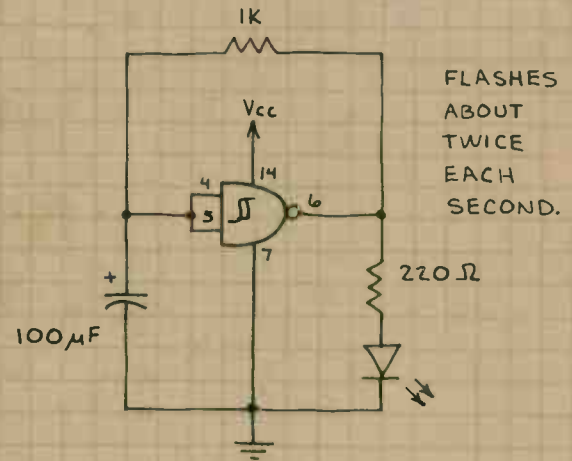
NAND GATES WITH A SWITCHING THRESHOLD. OUTPUTS GO LOW WHEN INPUTS EXCEED 1.7 VOLTS. OUTPUTS GO HIGH WHEN INPUTS FALL TO 0.9 VOLT. VERY USEFUL FOR CLEANING UP DIGITAL SIGNALS BEFORE THEY ARE ALLOWED TO ENTER A LOGIC CIRCUIT.



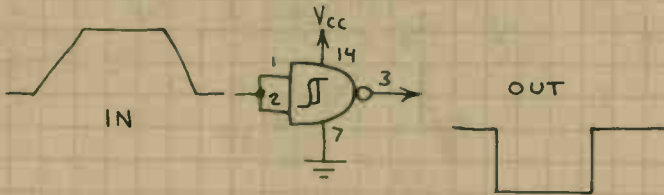
WAVE SHAPER



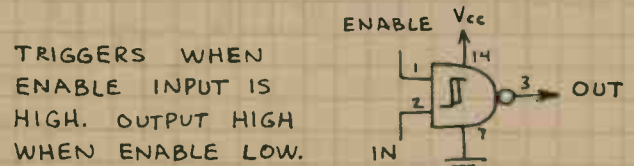
LED FLASHER



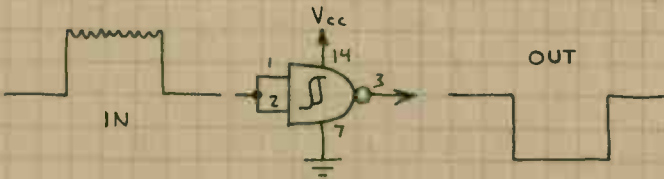
PULSE RESTORER



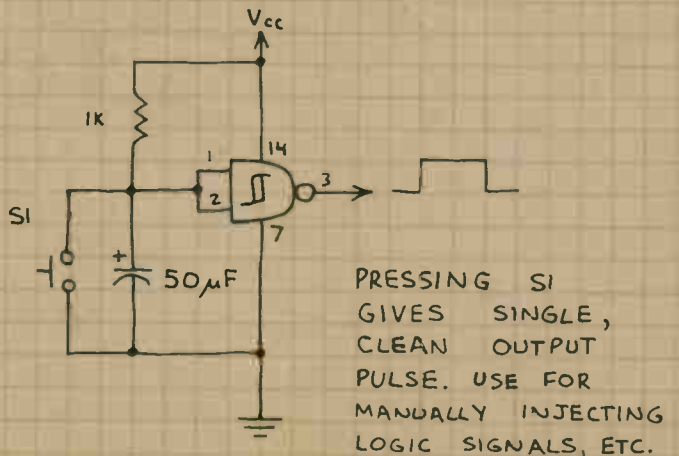
ADDING ENABLE INPUT



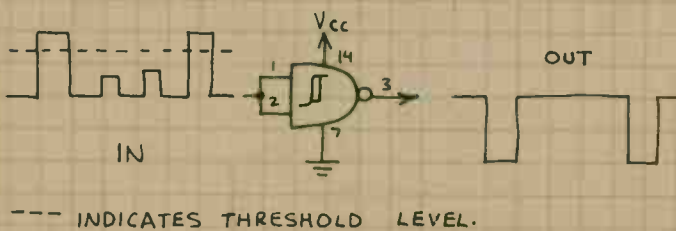
NOISE ELIMINATOR



BOUNCELESS PUSHBUTTON



THRESHOLD DETECTOR

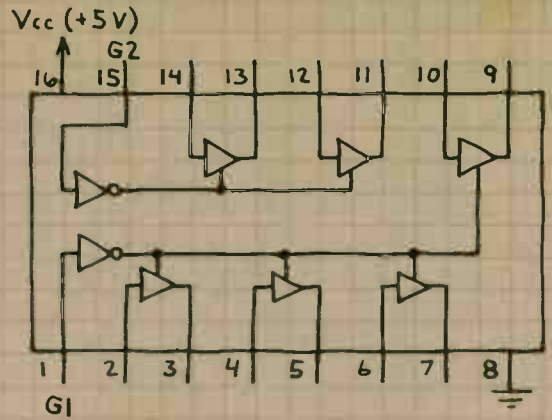


HEX 3-STATE BUS DRIVER 74LS367

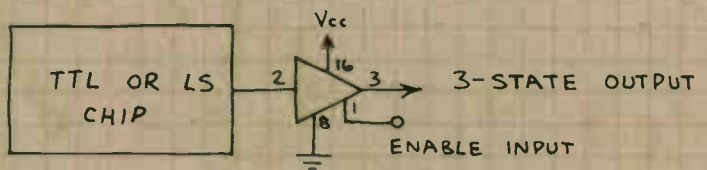
EACH GATE FUNCTIONS AS A NON-INVERTING BUFFER WHEN ITS ENABLE INPUT (G1 OR G2) IS LOW. OTHERWISE EACH GATE'S OUTPUT ENTERS THE HIGH IMPEDANCE (HI-Z) STATE.

HERE'S THE TRUTH TABLE:

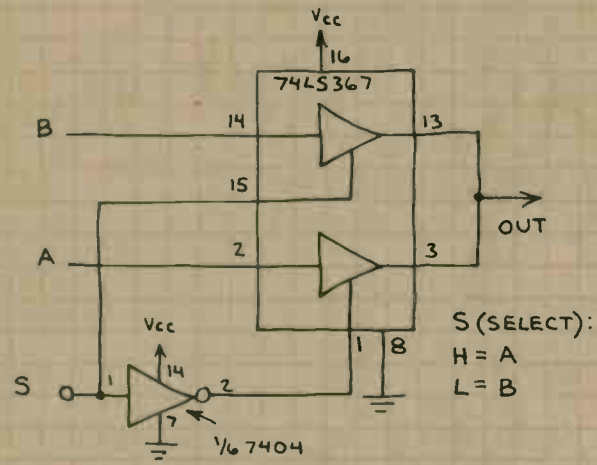
G	IN	OUT
H	X	HI-Z
L	L	L
L	H	H



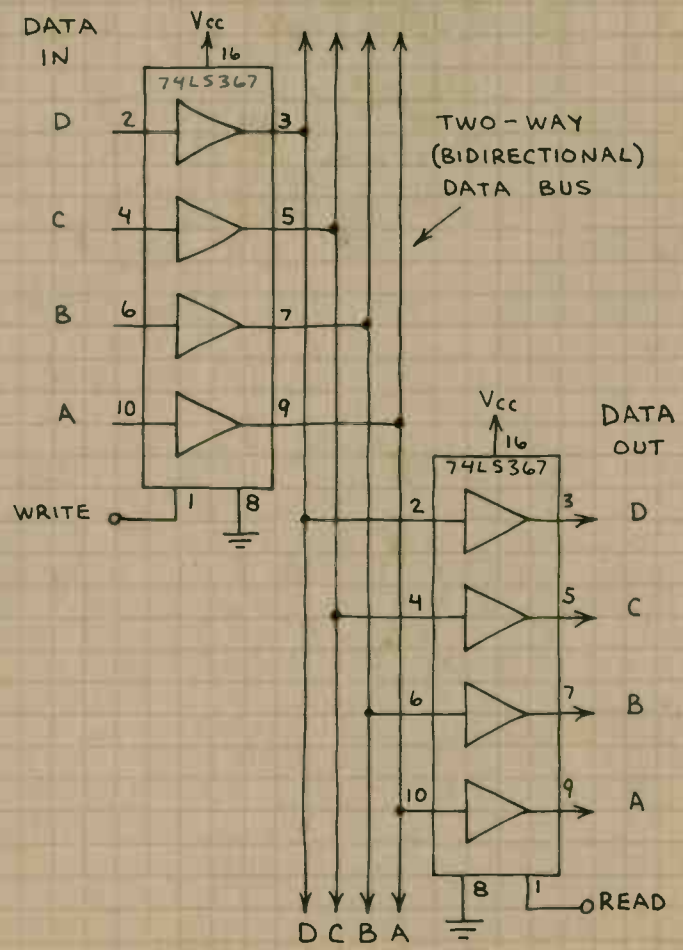
ADDING 3-STATE OUTPUT TO TTL



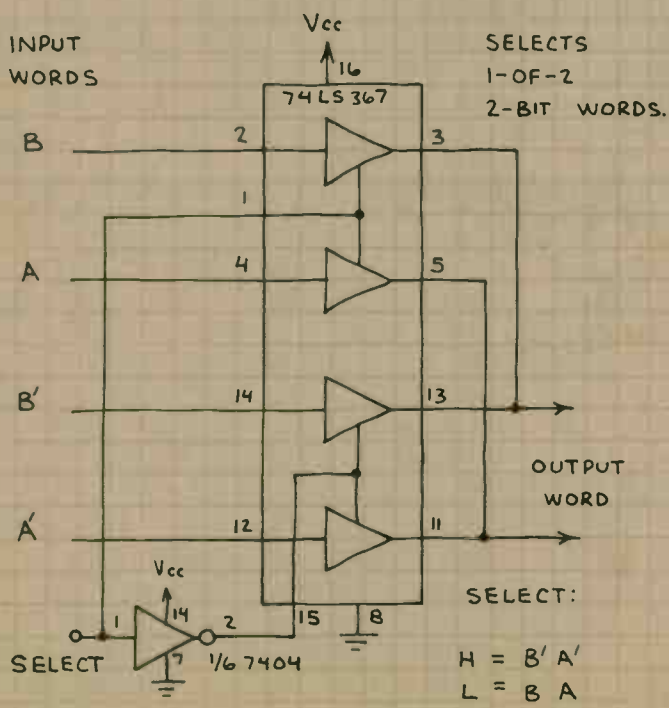
1-OF-2 DATA SELECTOR



BIDIRECTIONAL DATA BUS



1-OF-2 DATA SELECTOR

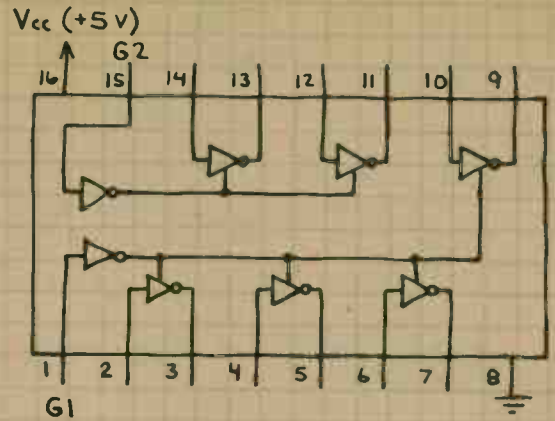


HEX 3-STATE BUS DRIVER 74LS368

EACH GATE FUNCTIONS AS AN INVERTER WHEN ITS ENABLE INPUT (G1 OR G2) IS LOW. OTHERWISE EACH GATE'S OUTPUT ENTERS THE HIGH IMPEDANCE (HI-Z) STATE.

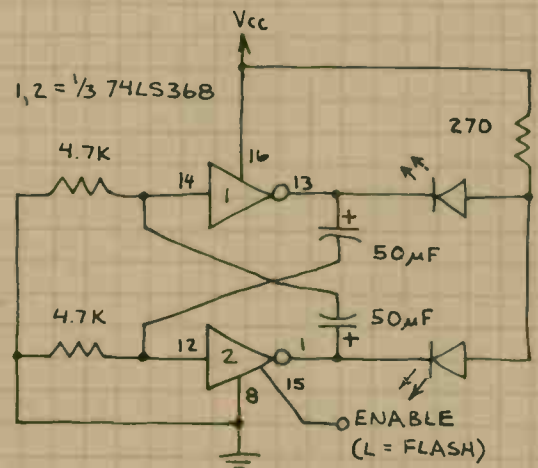
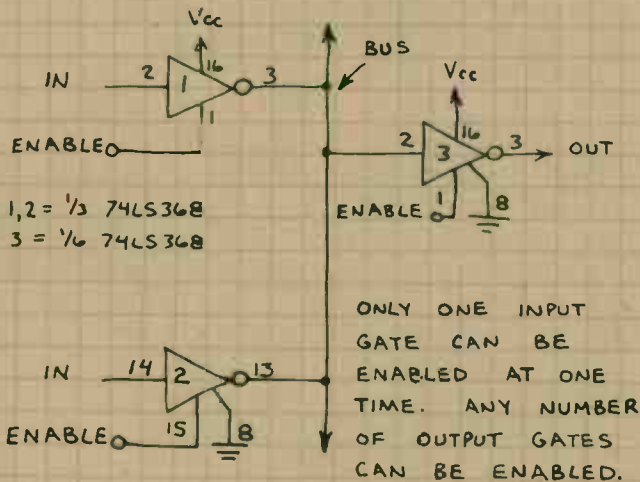
HERE'S THE TRUTH TABLE:

G	IN	OUT
H	X	HI-Z
L	L	H
L	H	L



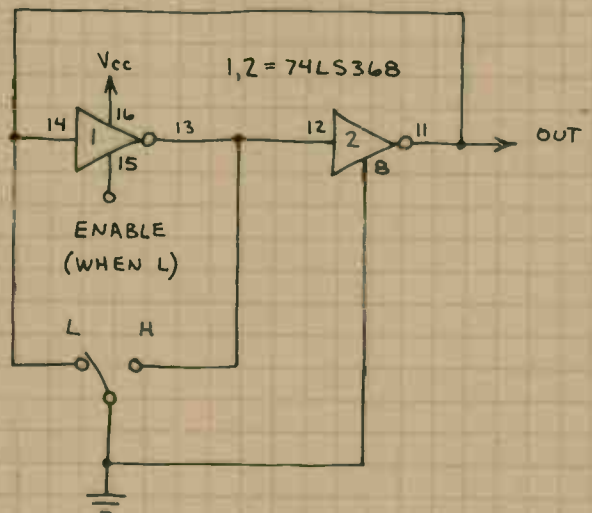
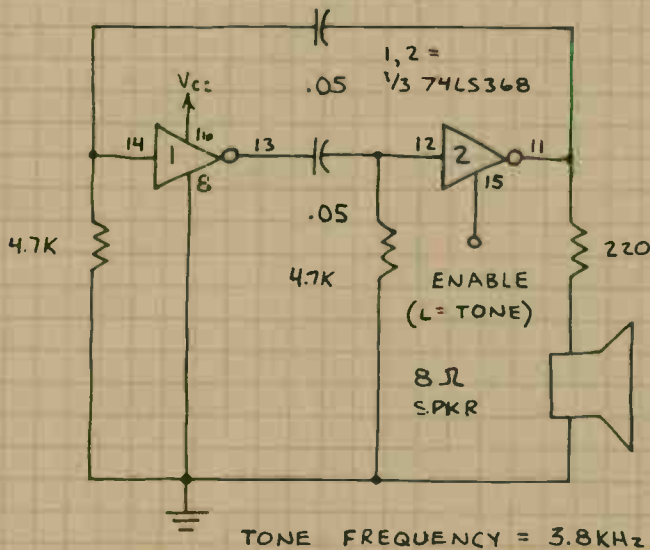
GATED LED FLASHER

BIDIRECTIONAL DATA BUS



GATED TONE SOURCE

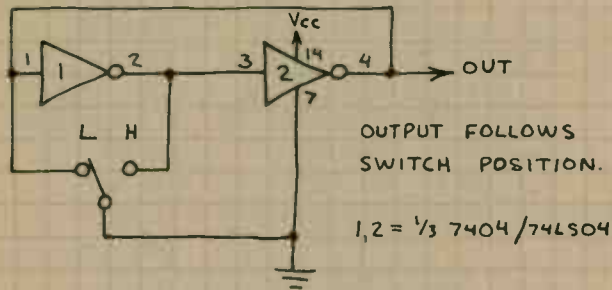
BOUNCELESS SWITCH (WITH ENABLE)



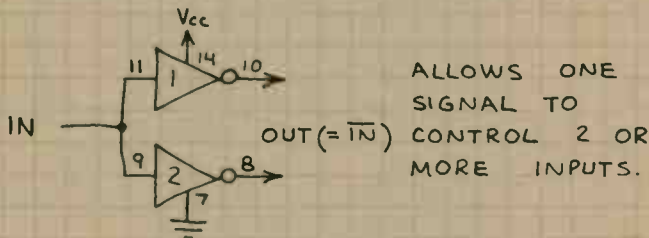
HEX INVERTER 7404/74LS04

VERY IMPORTANT IN ALMOST ALL LOGIC CIRCUITS. CHANGES AN INPUT TO ITS COMPLEMENT (i.e. $H \rightarrow L$ AND $L \rightarrow H$).

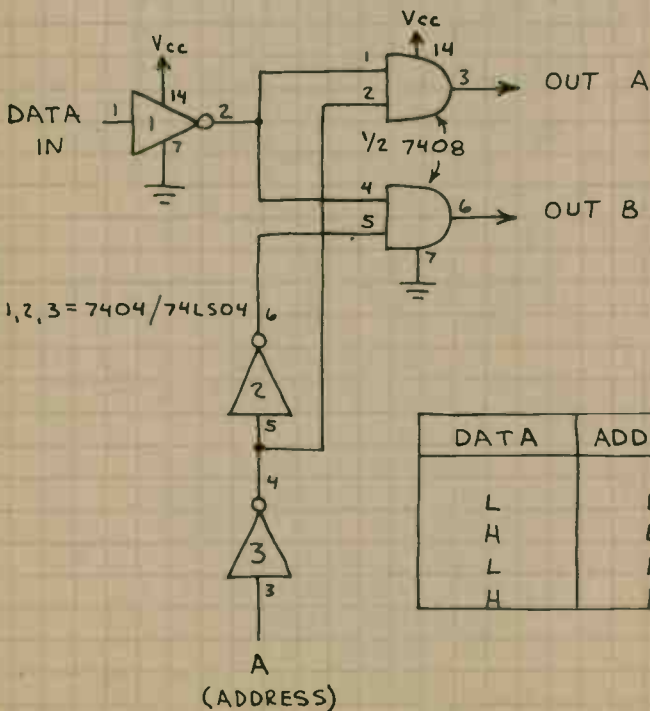
BOUNCFREE SWITCH



UNIVERSAL EXPANDER



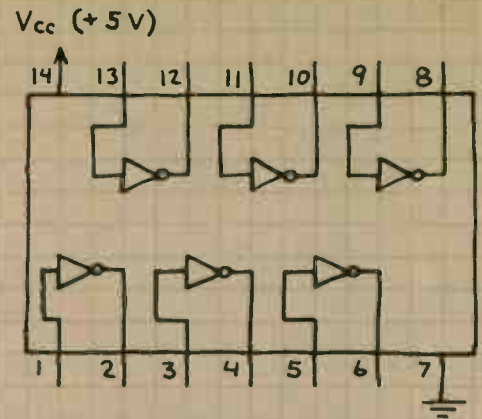
1-OF-2 DEMULTIPLEXER



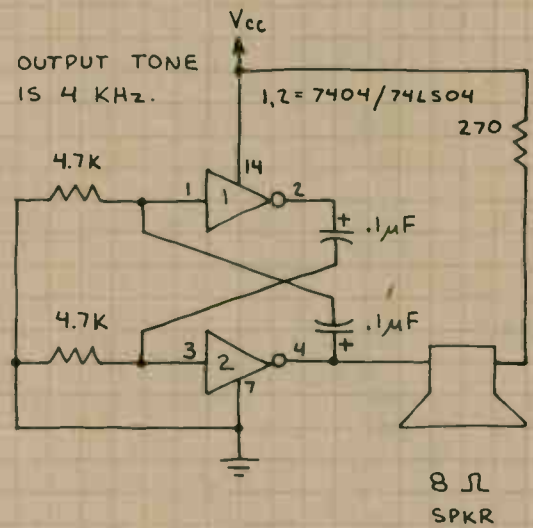
THIS CIRCUIT STEERS THE INPUT BIT TO THE OUTPUT SELECTED BY THE ADDRESS.

THIS TECHNIQUE CAN BE USED TO MAKE MULTIPLE OUTPUT DEMULTIPLEXERS.

DATA	ADDRESS	OUT A	OUT B
L	L	L	H
H	L	H	H
L	H	H	L
H	H	H	H



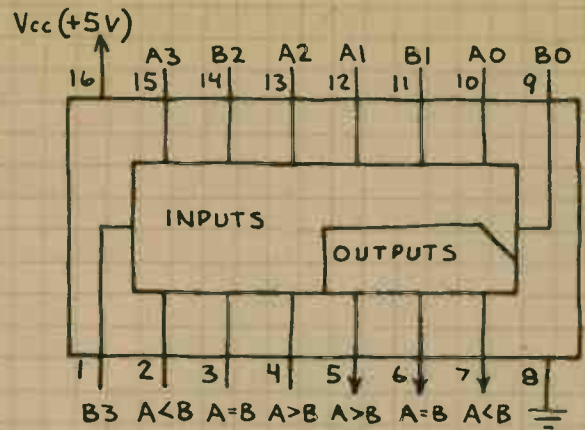
AUDIO OSCILLATOR



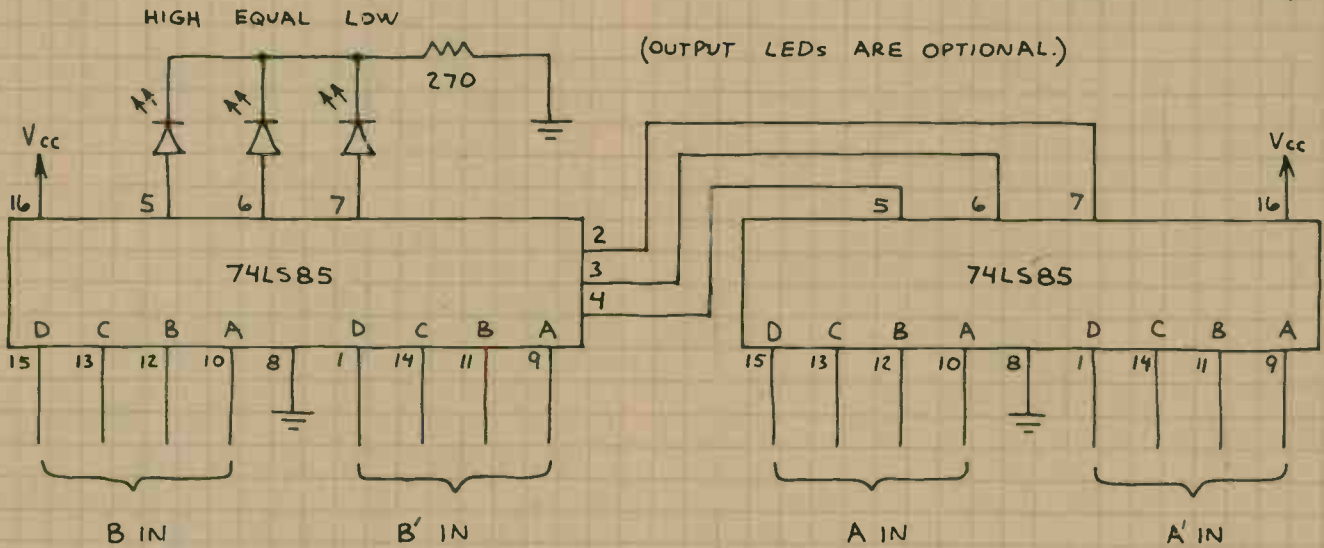
4-BIT MAGNITUDE COMPARATOR

74LS85

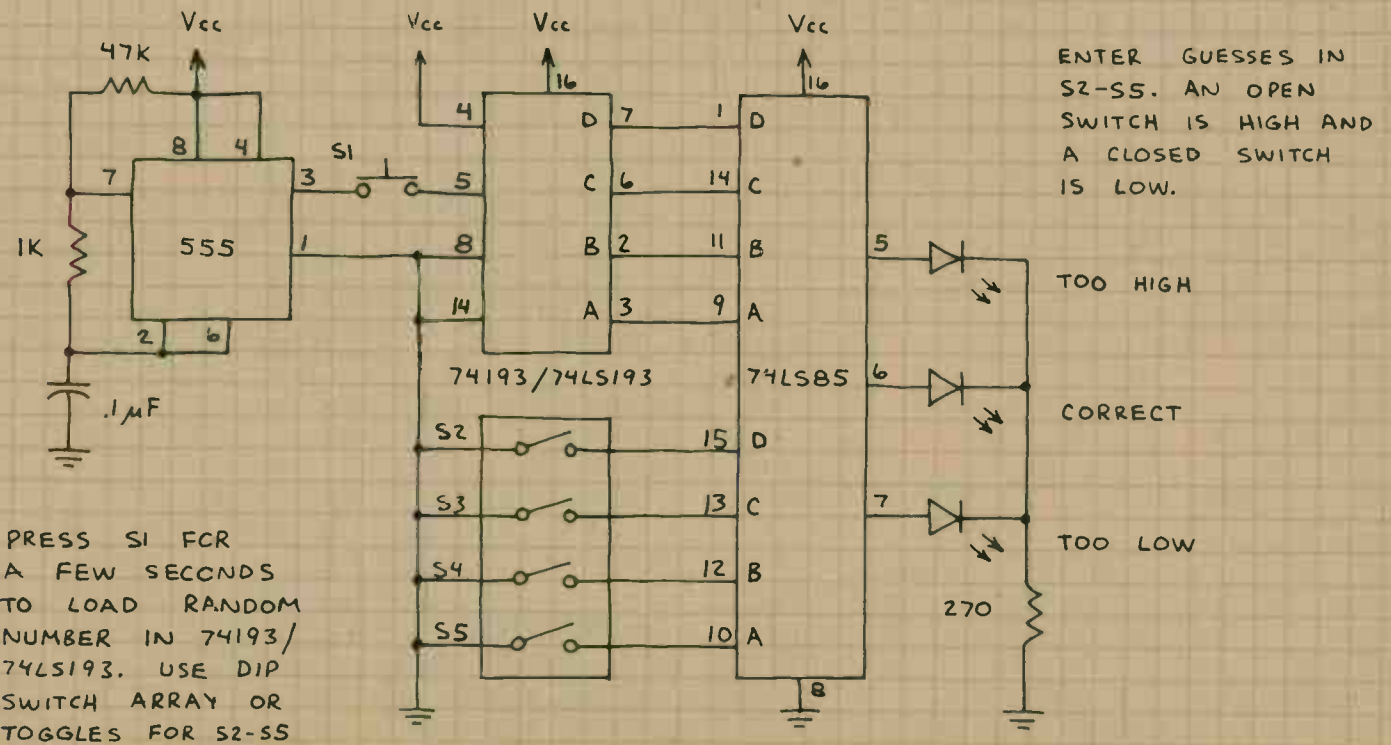
COMPARES TWO 4-BIT WORDS. INDICATES WHICH IS LARGER OR IF THEY ARE EQUAL.



8-BIT COMPARATOR



BINARY HI-LO GAME

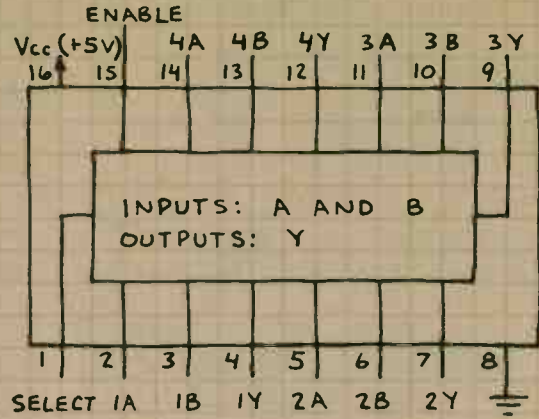


ENTER GUESSES IN S2-S5. AN OPEN SWITCH IS HIGH AND A CLOSED SWITCH IS LOW.

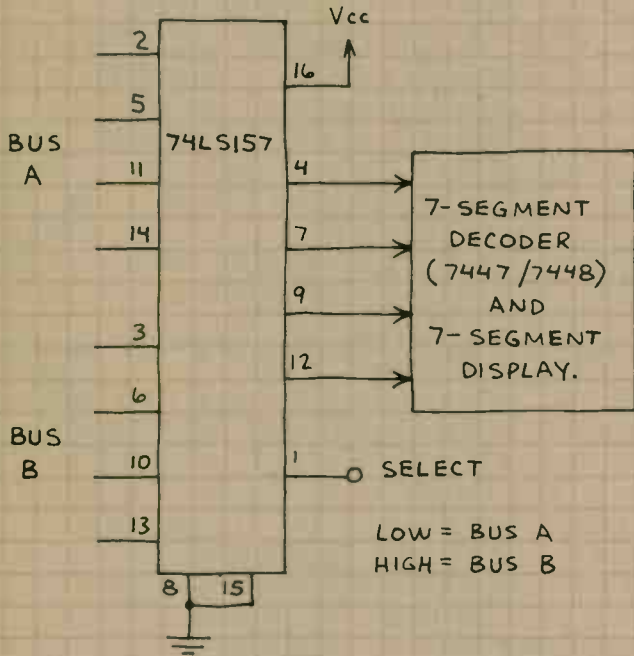
PRESS S1 FOR A FEW SECONDS TO LOAD RANDOM NUMBER IN 74193/74LS193. USE DIP SWITCH ARRAY OR TOGGLES FOR S2-S5

QUAD 1-OF-2 DATA SELECTOR 74LS157

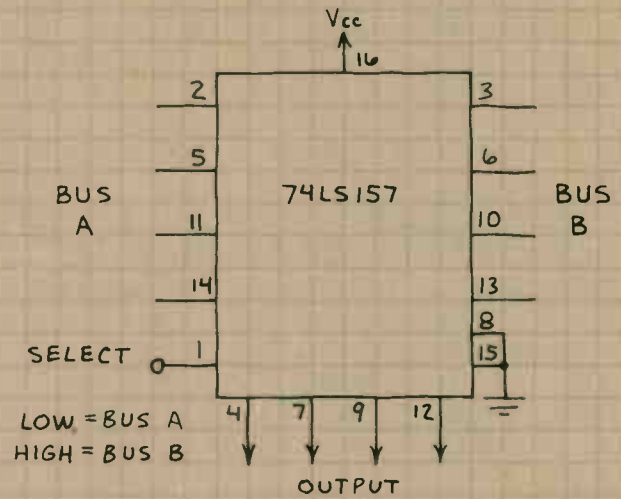
FOUR 2-LINE TO 1-LINE MULTIPLEXERS.
MANY USES IN ROUTING DATA. ALL
4 DATA SELECTORS ARE ENABLED
WHEN PIN 15 IS LOW.



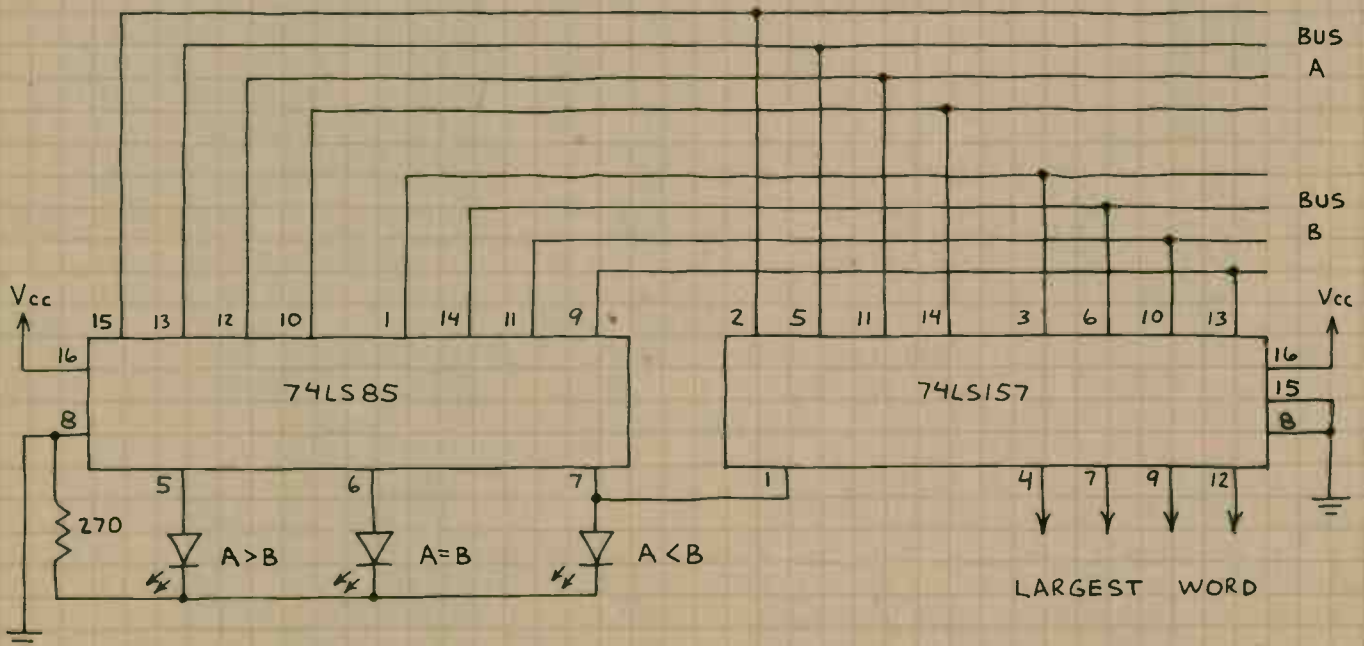
DOUBLE DUTY DISPLAY



BUS SELECTOR



WORD SORTER



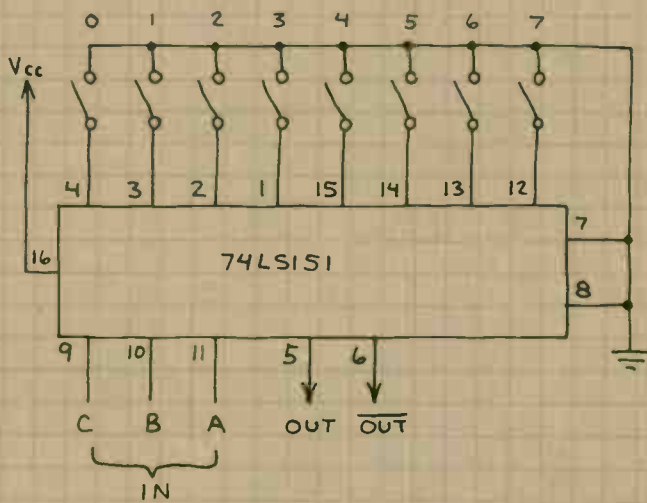
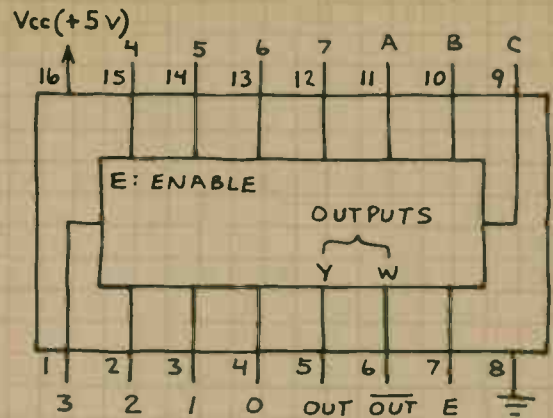
THIS CIRCUIT CONTINUALLY MONITORS TWO DATA BUSES. BUS WITH
HIGHEST MAGNITUDE DATA WORD IS ROUTED AUTOMATICALLY TO OUTPUT.

1-OF-8 DATA SELECTOR 74LS151

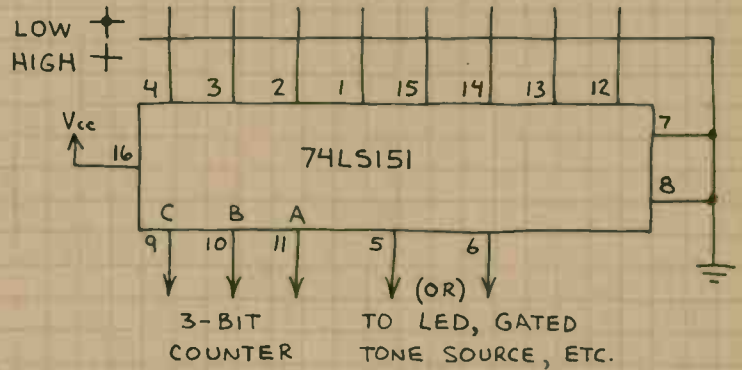
EQUIVALENT TO 8-LINE TO 1-LINE MULTIPLEXER.

PROGRAMMABLE GATE

3-BIT ADDRESS SELECTS ONE SWITCH AND APPLIES ITS STATUS (OPEN = HIGH AND CLOSED = LOW) TO THE OUTPUT. ANY 3-INPUT LOGIC FUNCTION CAN BE PROGRAMMED IN SECONDS.

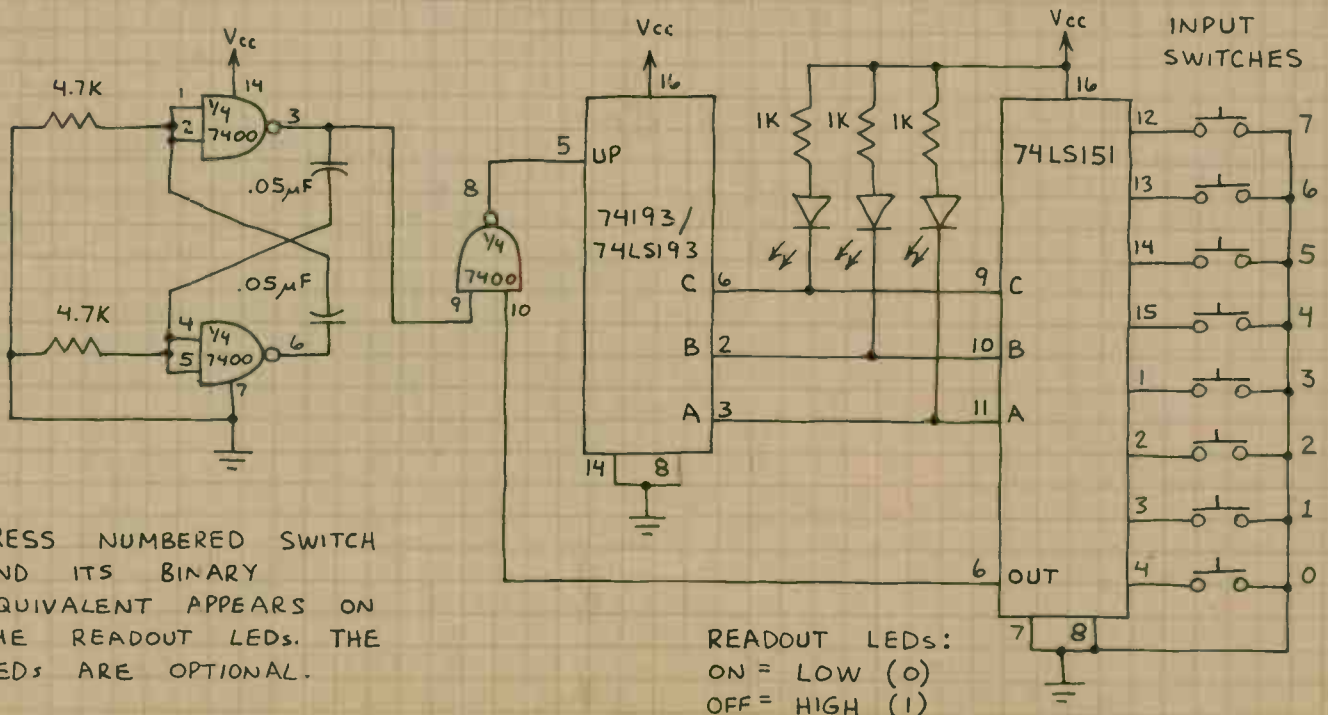


PATTERN GENERATOR



PROGRAM ANY DESIRED LOW-HIGH BIT PATTERN. THEN PLAY IT BACK.

OCTAL KEYBOARD ENCODER



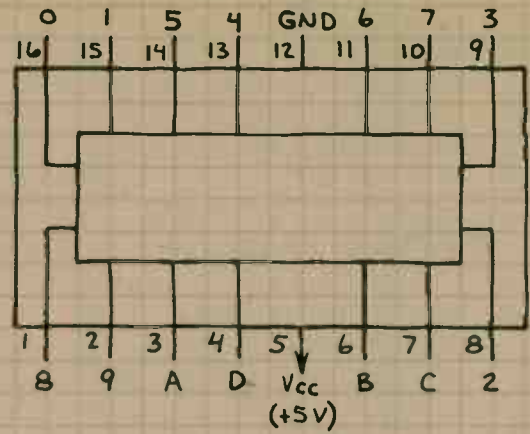
PRESS NUMBERED SWITCH AND ITS BINARY EQUIVALENT APPEARS ON THE READOUT LEDs. THE LEDs ARE OPTIONAL.

READOUT LEDs:
ON = LOW (0)
OFF = HIGH (1)

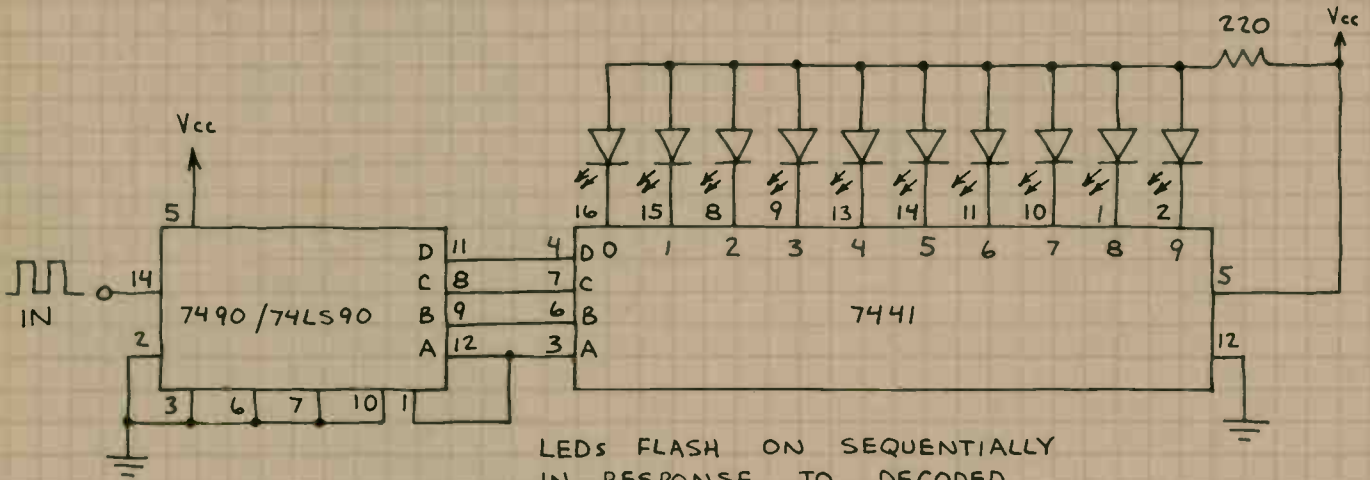
BCD-TO-DECIMAL DECODER

7441

DECODES 4-BIT BCD INPUT INTO 1-OF-10 OUTPUTS. SELECTED OUTPUT GOES LOW; ALL OTHERS STAY HIGH. ORIGINALLY DESIGNED TO DRIVE GASEOUS GLOW DISCHARGE TUBES. ALL OUTPUTS GO HIGH FOR BINARY INPUTS EXCEEDING HLLH (1001).

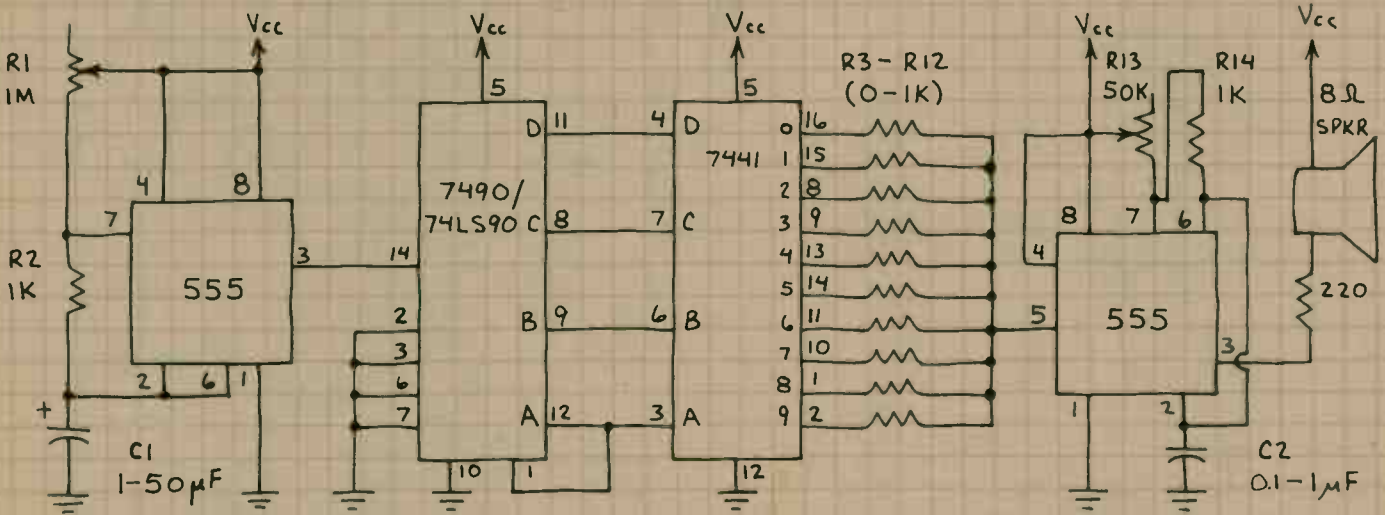


1-OF-10 DECODED COUNTER



LEDs FLASH ON SEQUENTIALLY IN RESPONSE TO DECODED COUNT. ONLY ONE LED SERIES RESISTOR IS REQUIRED.

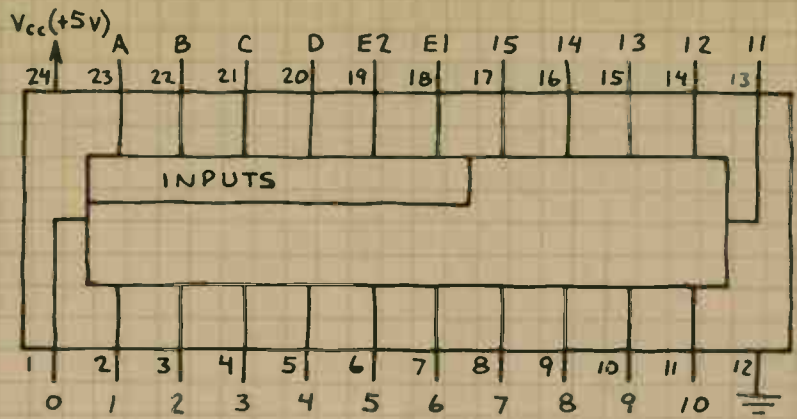
10-NOTE TONE SEQUENCER



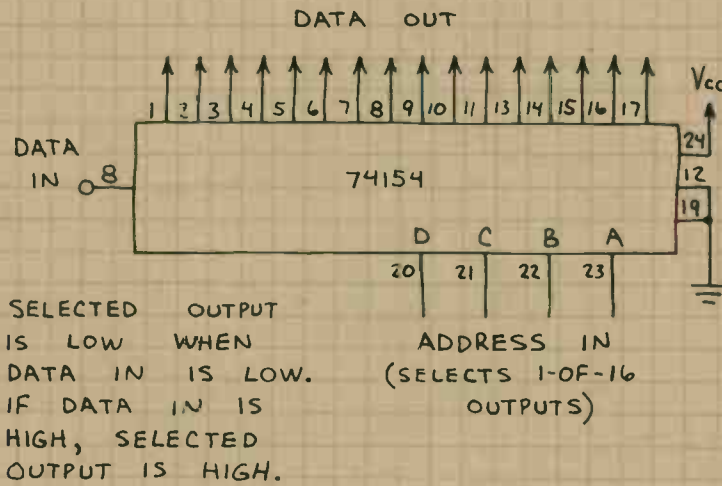
INCREASE C1 TO DECREASE TEMPO. INCREASE C2 TO INCREASE TONE FREQUENCIES. TONES ARE DETERMINED BY R3-R12.

4-LINE TO 16-LINE DECODER 74154

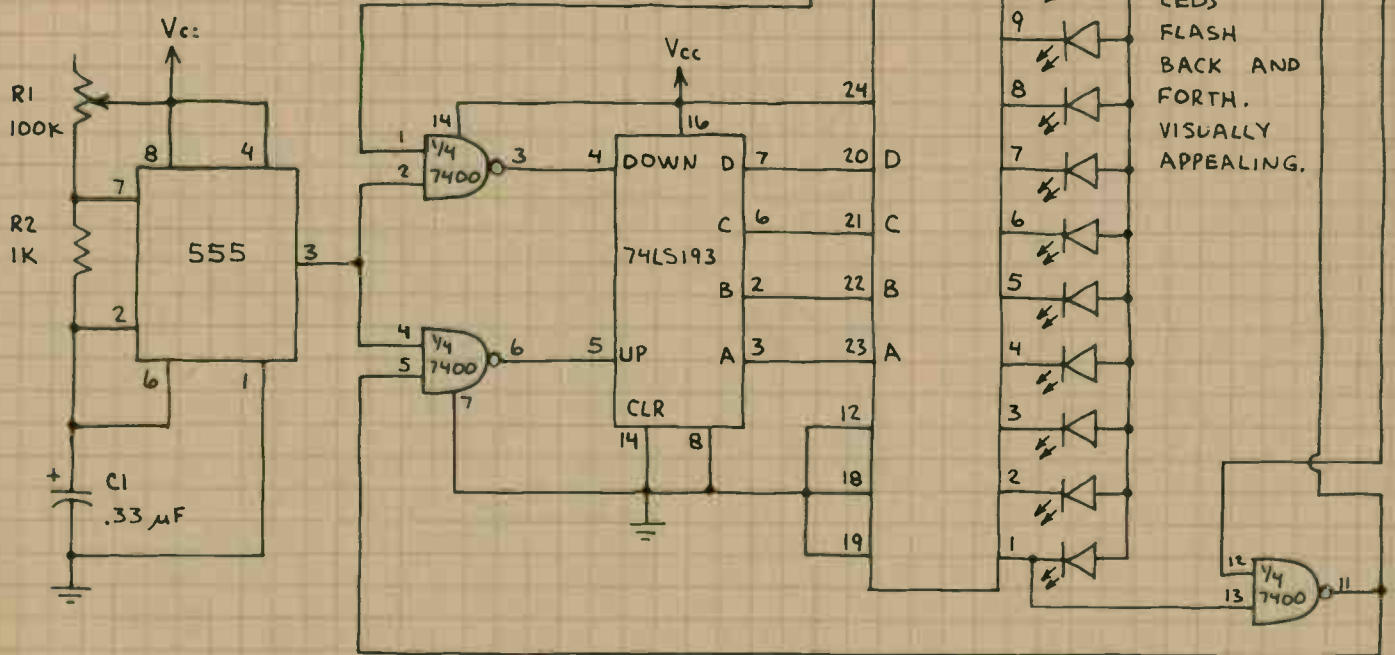
EACH 4-BIT ADDRESS
DRIVES ONE OUTPUT LOW.
ALL OTHERS STAY HIGH.
ENABLE INPUTS (E1 AND E2)
MUST BE LOW. IF ONE OR
BOTH ARE HIGH, ALL
OUTPUTS GO LOW.



1-TO-16 DEMULTIPLEXER



BACK AND FORTH FLASHER

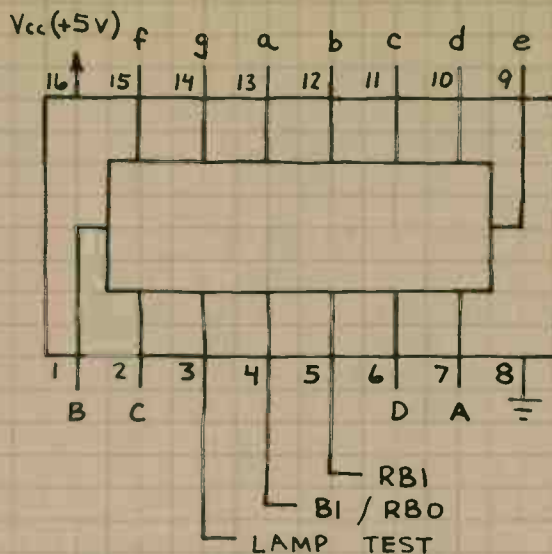


INCREASE R1 TO SLOW FLASH RATE.

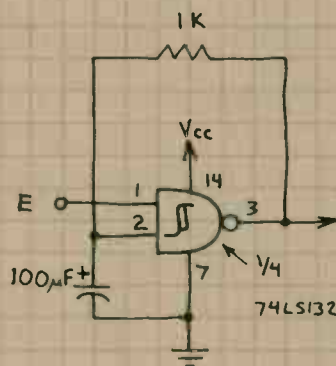
BCD-TO-7 SEGMENT DECODER / DRIVER

7447 / 74LS47

CONVERTS BCD DATA INTO
FORMAT SUITABLE FOR PRODUCING
DECIMAL DIGITS ON COMMON
ANODE LED 7-SEGMENT DISPLAY.
WHEN LAMP TEST INPUT IS LOW, ALL
OUTPUTS ARE LOW (ON). WHEN BI/RBO
(BLANKING INPUT) IS LOW, ALL
OUTPUTS ARE HIGH (OFF). WHEN
DCBA INPUT IS LLLL (DECIMAL 0)
AND RBI (RIPPLE BLANKING INPUT) IS
LOW, ALL OUTPUTS ARE HIGH (OFF).
THIS PERMITS UNWANTED LEADING 0's
IN A ROW OF DIGITS TO BE
BLANKED.



DISPLAY FLASHER

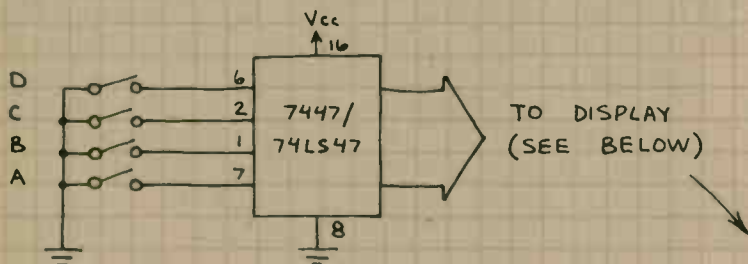


THIS SIMPLE
CIRCUIT WILL
FLASH DISPLAY
TWICE PER SECOND.

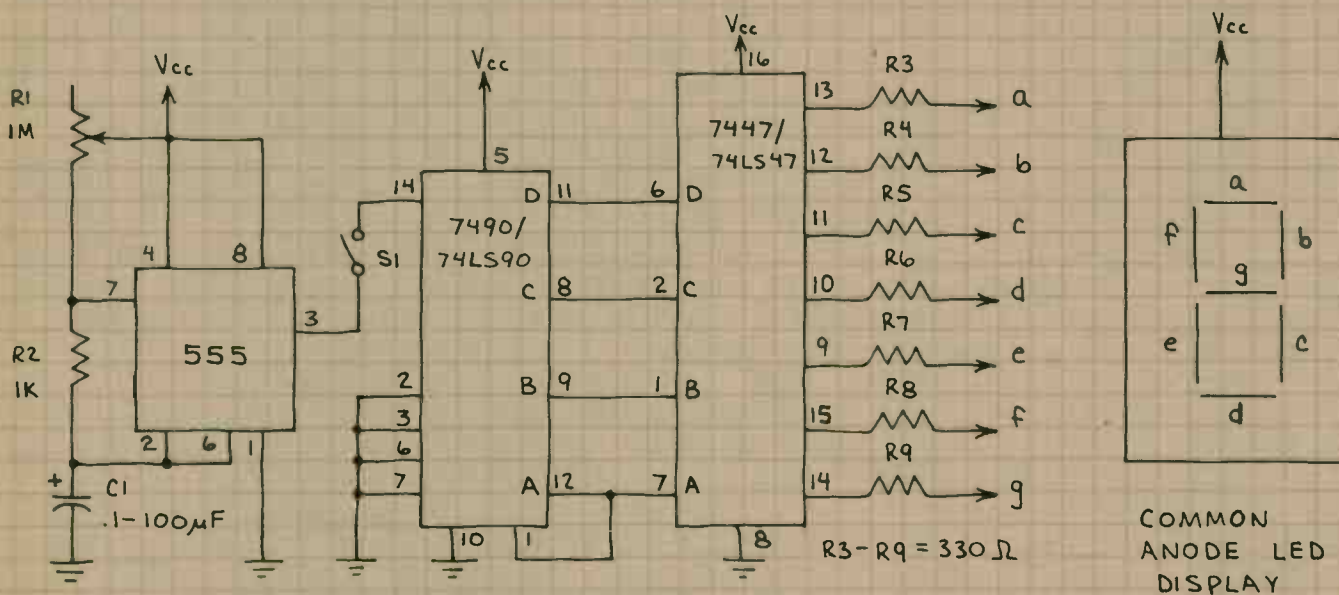
TO PIN 4,
7447/74LS47.

E	DISPLAY
H	STEADY
L	FLASHES

MANUALLY SWITCHED DISPLAY



0-9 SECOND / MINUTE TIMER

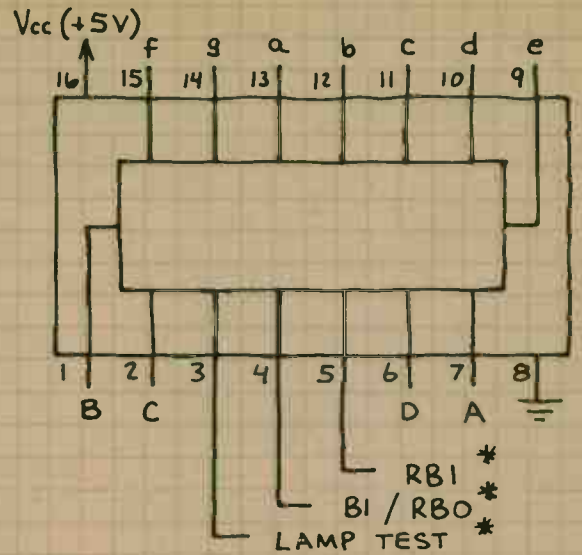


COMMON
ANODE LED
DISPLAY

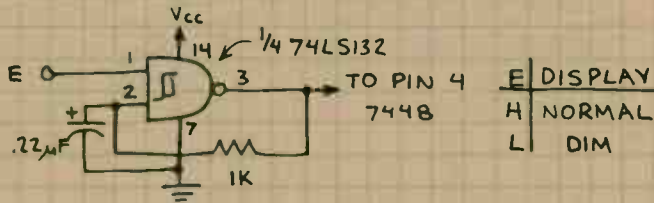
CLOSE S1 TO START TIMING CYCLE. CALIBRATE 555 FOR 1 PULSE (COUNT) PER
SECOND OR 1 COUNT PER MINUTE BY ADJUSTING R1.

BCD-TO-7-SEGMENT DECODER / DRIVER 7448

CONVERTS BCD DATA INTO
FORMAT SUITABLE FOR PRODUCING
DECIMAL DIGITS ON COMMON
CATHODE LED 7-SEGMENT DISPLAY.

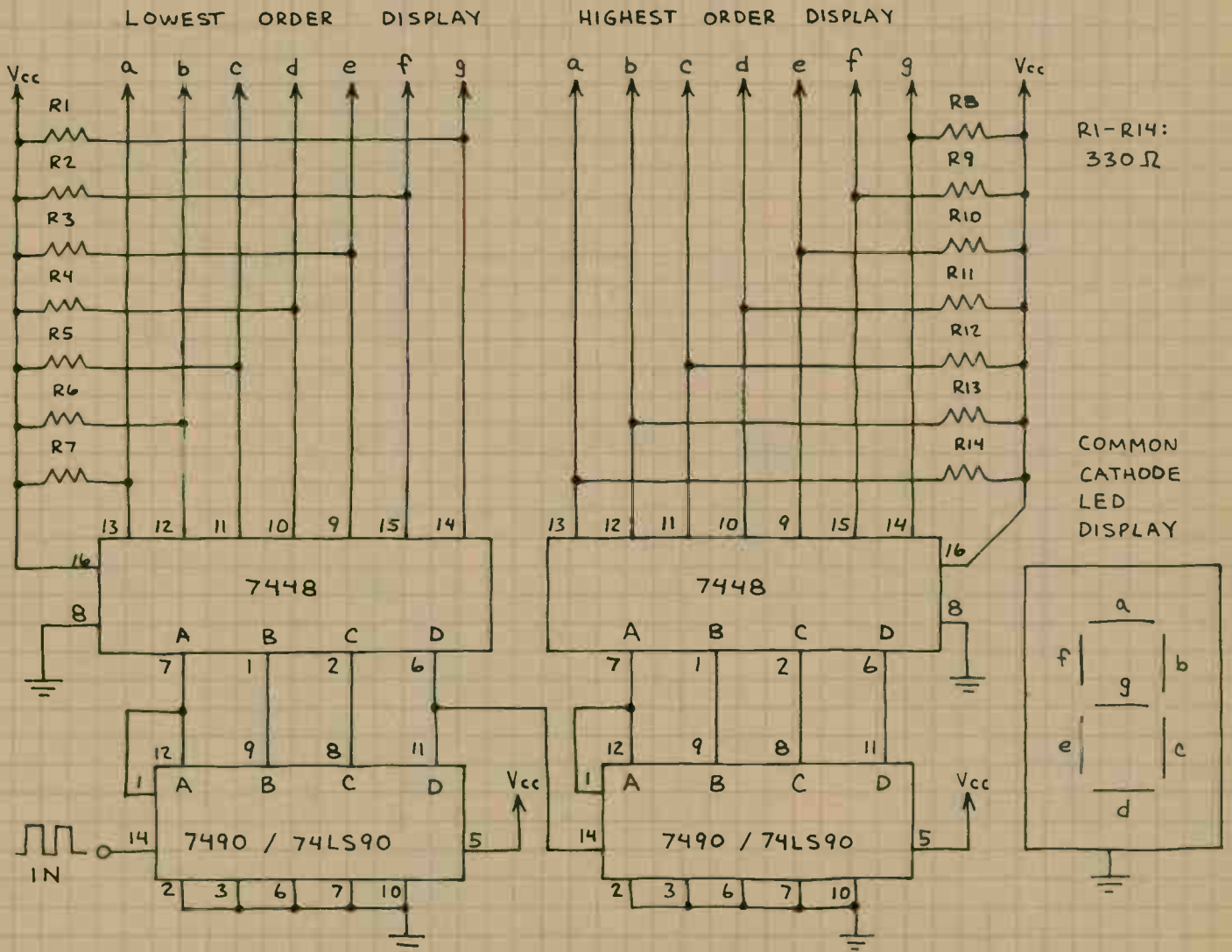


DISPLAY DIMMER



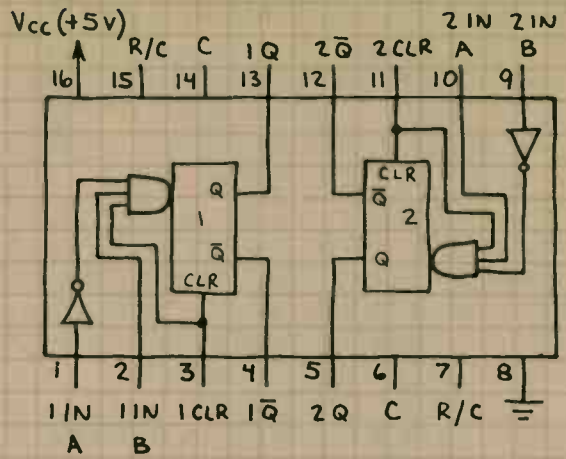
*SEE 7447 FOR EXPLANATIONS.

0-99 TWO DIGIT COUNTER

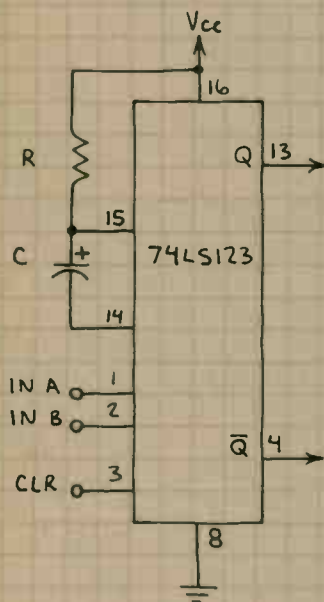


DUAL ONE-SHOT 74LS123

TWO FULLY INDEPENDENT MONOSTABLE MULTIVIBRATORS. BOTH ARE RETRIGGERABLE. PINS DESIGNATED R AND R/C ARE FOR EXTERNAL TIMING RESISTOR AND CAPACITOR. SEE RADIO SHACK DATA BOOK FOR INFORMATION ABOUT R AND C.



BASIC ONE-SHOT



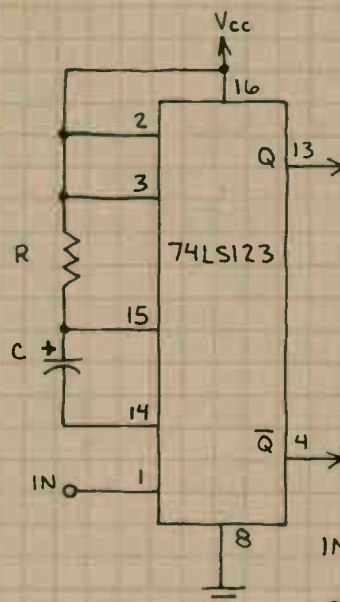
TWO WAYS TO TRIGGER:

1. KEEP INPUTS A AND B LOW; THEN MAKE B HIGH.
2. KEEP INPUTS A AND B HIGH; THEN MAKE A LOW.

TO CLEAR:

MAKE PIN 3 LOW. THIS ALSO INHIBITS TRIGGERING.

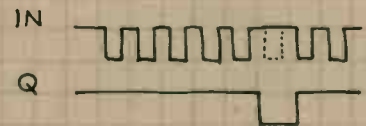
MISSING PULSE DETECTOR



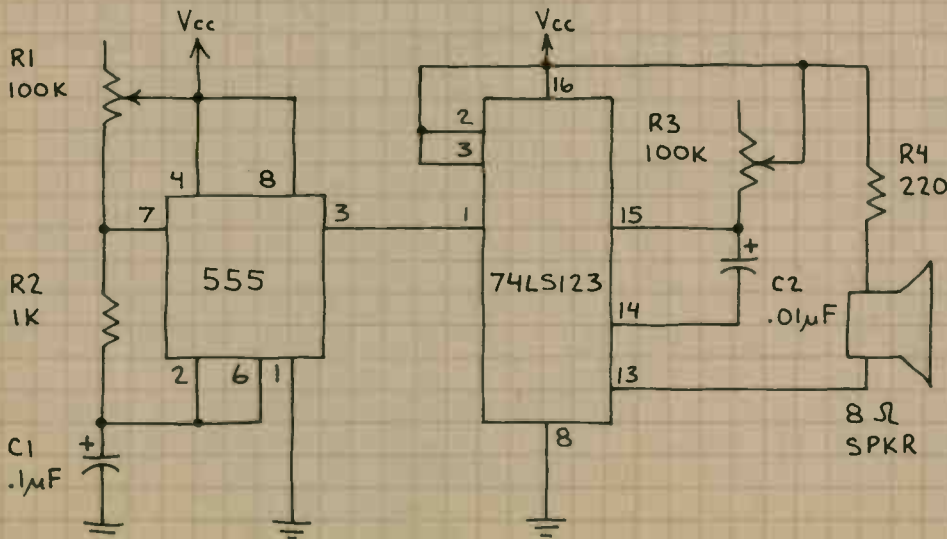
Q OUTPUT STAYS HIGH SO LONG AS INCOMING PULSES ARRIVE BEFORE ONE-SHOT TIMING PERIOD RUNS OUT.

ADJUST R AND C TO GIVE TIMING PERIOD ABOUT 1/3 LONGER THAN THE INTERVAL BETWEEN INCOMING PULSES.

OPERATION:



TONE STEPPER



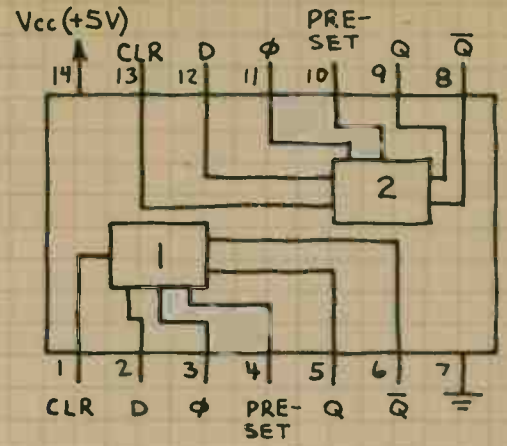
THIS CIRCUIT STEPS ACROSS A RANGE OF TONES WHEN R1 AND/OR R3 ARE ADJUSTED. VERY UNUSUAL SOUND EFFECTS.

CHANGE C1 AND C2 FOR OTHER TONE RANGES. ALSO, TRY PHOTOSENSORS FOR R1 AND R3.

DUAL D FLIP-FLOP 7474 / 74LS74

TWO D (DATA) FLIP-FLOPS IN A SINGLE PACKAGE. DATA AT D INPUT IS STORED AND MADE AVAILABLE AT Q OUTPUT WHEN CLOCK PULSE (ϕ) GOES HIGH. HERE'S THE TRUTH TABLE:

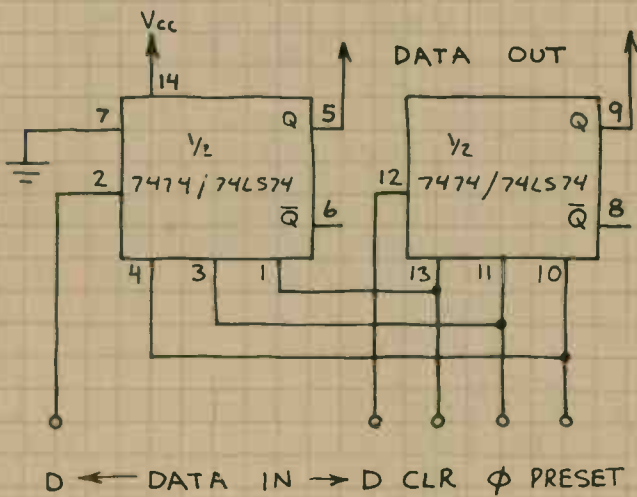
PRESET	CLEAR	CLOCK	D	Q	\bar{Q}
L	H	X	X	H	L
H	L	X	X	L	H
H	H	\uparrow	H	H	L
H	H	\uparrow	L	L	H



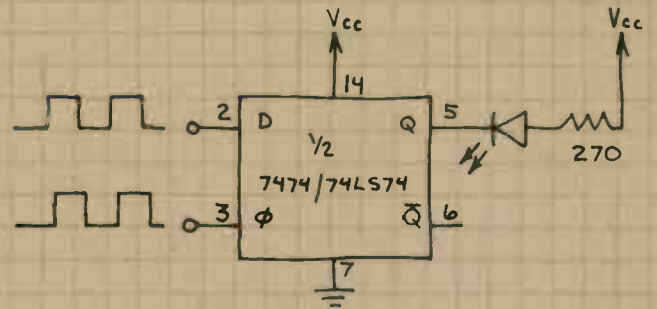
ϕ IS CLOCK INPUT.

\uparrow IS RISING EDGE OF CLOCK PULSE.

2-BIT STORAGE REGISTER

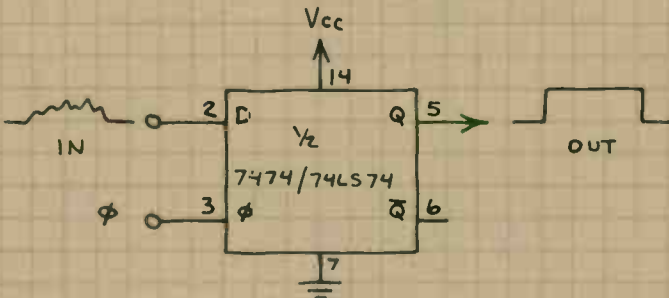


PHASE DETECTOR

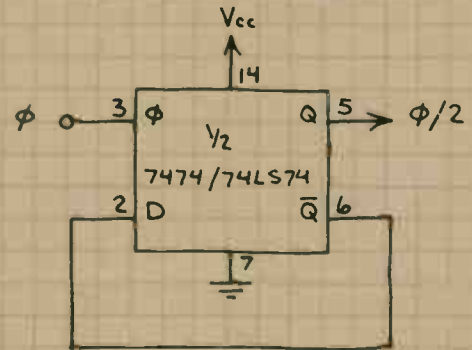


THE LED GLOWS WHEN INPUT FREQUENCIES F_1 AND F_2 ARE UNEQUAL OR OUT OF PHASE. F_1 AND F_2 SHOULD BE SQUARE WAVES.

WAVE SHAPER



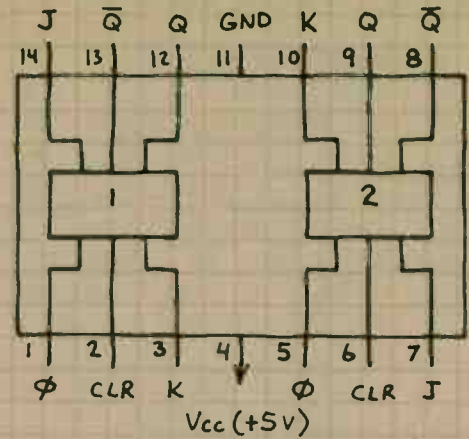
DIVIDE-BY-TWO COUNTER



DUAL J-K FLIP-FLOP 7473 / 74LS73

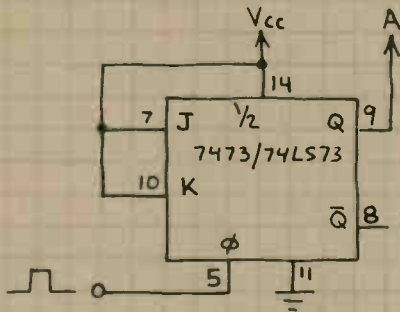
TWO JK FLIP-FLOPS IN A SINGLE PACKAGE. NOTE THE CLEAR INPUTS. THESE FLIP-FLOPS WILL TOGGLE (SWITCH OUTPUT STATES) IN RESPONSE TO INCOMING CLOCK PULSES WHEN BOTH J AND K INPUTS ARE HIGH. HERE'S THE TRUTH TABLE:

CLEAR	CLOCK	J	K	Q	\bar{Q}
L	X	X	X	L	H
H	L	H	L	H	L
H	L	L	H	L	H
H	L	H	H	TOGGLE	TOGGLE



ϕ IS CLOCK INPUT.

DIVIDE-BY-TWO

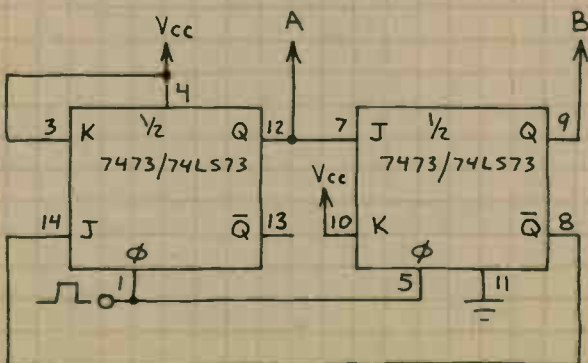


BINARY COUNTERS

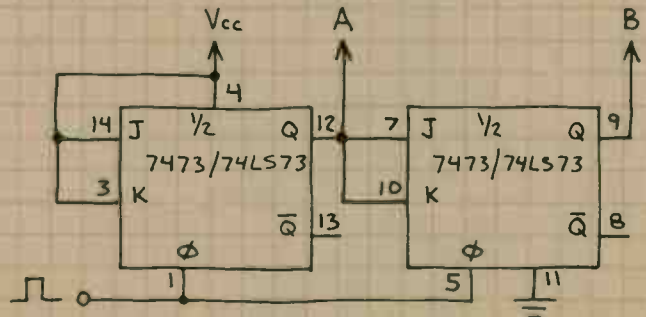
THE THREE CIRCUITS ON THIS PAGE ARE BINARY COUNTERS THAT COUNT UP TO THE MAXIMUM COUNT AND AUTOMATICALLY RECYCLE. CONNECT A DECODER TO OUTPUT OF DIVIDE-BY-THREE AND DIVIDE-BY-FOUR COUNTERS TO OBTAIN ONE-OF-THREE AND ONE-OF-FOUR OPERATION. THIS TRUTH TABLE SUMMARIZES OPERATION OF THESE COUNTERS:

DIVIDE-BY:	TWO		THREE		FOUR	
	A	B	A	B	A	B
OUTPUTS:	L	L	L	L	L	L
	H	L	L	H	L	H
		H	H	L	H	L
				H	H	H

DIVIDE-BY-THREE



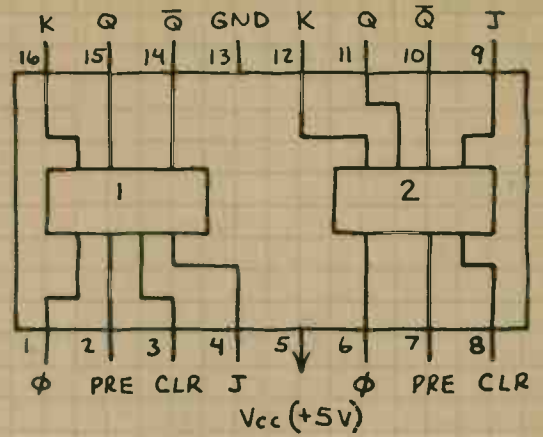
DIVIDE-BY-FOUR



DUAL J-K FLIP-FLOP 7476 / 74LS76

TWO JK FLIP-FLOPS IN A SINGLE PACKAGE. SIMILAR TO 7473/74LS73 BUT HAS BOTH PRESET AND CLEAR INPUTS. FLIP-FLOPS WILL TOGGLE (SWITCH OUTPUT STATES) IN RESPONSE TO INCOMING CLOCK PULSES WHEN BOTH J AND K INPUTS ARE HIGH. HERE'S THE TRUTH TABLE:

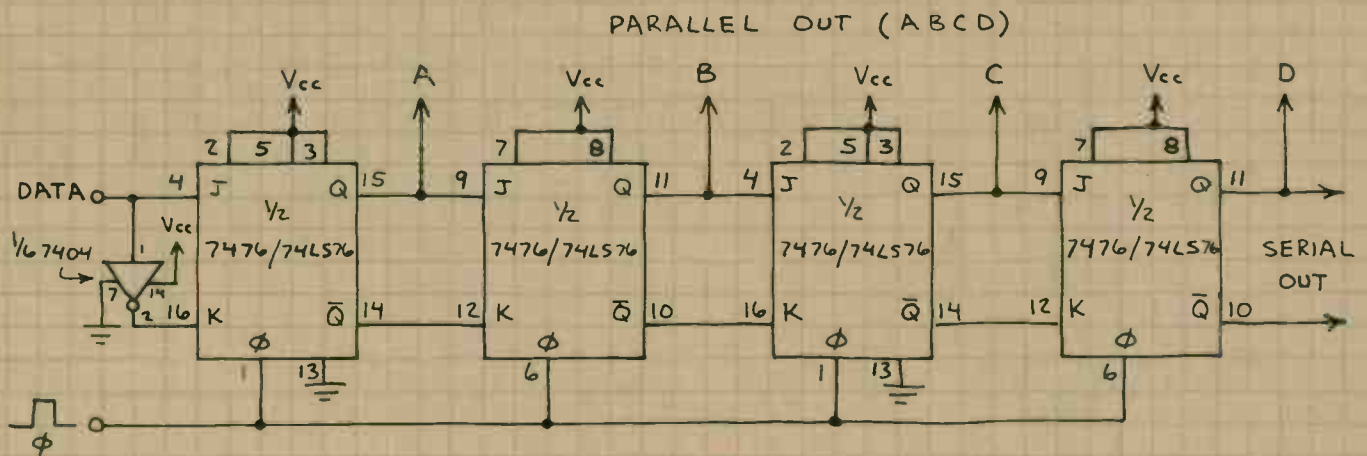
PRE	CLR	CLK	J	K	Q	\bar{Q}
L	H	X	X	X	H	L
H	L	X	X	X	L	H
H	H	\square	H	L	H	L
H	H	\square	L	H	L	H
H	H	\square	H	H	TOGGLE	



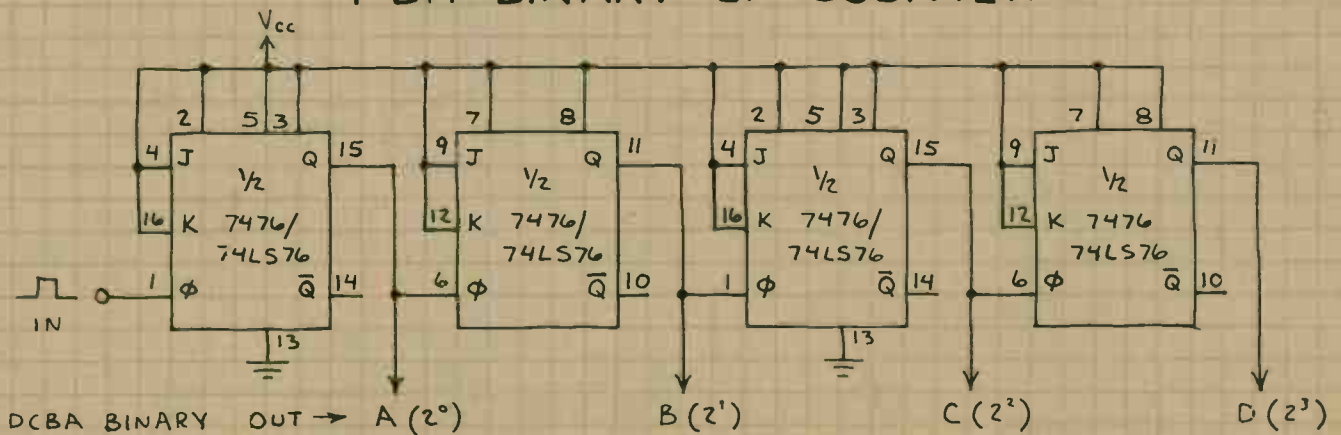
PRE = PRESET
CLR = CLEAR
 ϕ = CLOCK (OR CLK)

TOGGLE = FLIP-FLOP SWITCHES OUTPUT STATES IN RESPONSE TO CLOCK PULSES.

4-BIT SERIAL SHIFT REGISTER

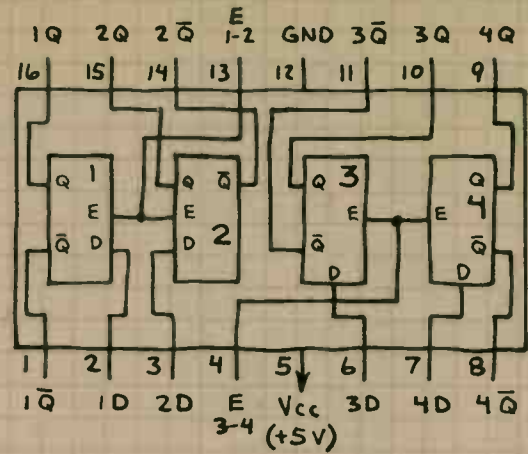


4-BIT BINARY UP COUNTER



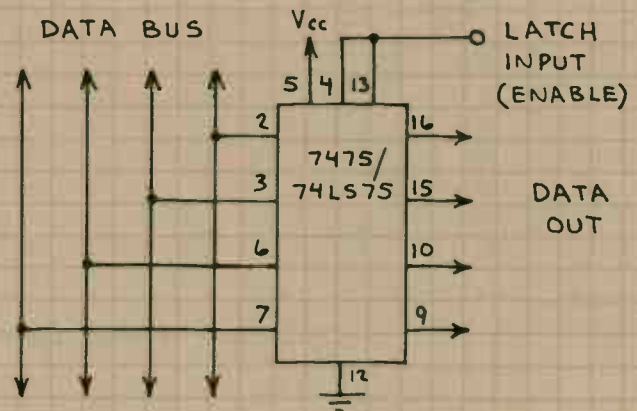
QUAD LATCH 7475/74LS75

A 4-BIT BISTABLE LATCH. PRIMARILY USED TO STORE THE COUNT IN DECIMAL COUNTING UNITS. NOTE THAT BOTH Q AND \bar{Q} OUTPUTS ARE PROVIDED. ALSO NOTE THE E (ENABLE) INPUTS. WHEN E IS HIGH, Q FOLLOWS D.

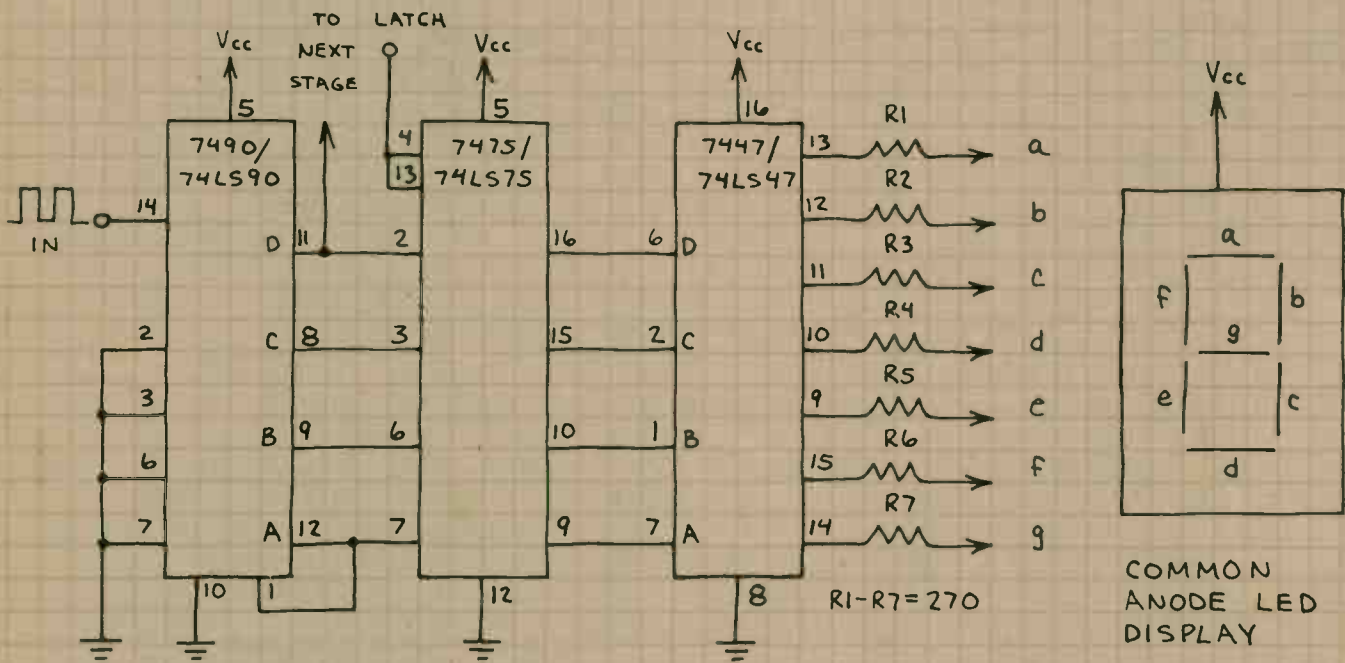


4-BIT DATA LATCH

DATA ON BUS APPEARS AT OUTPUTS WHEN LATCH INPUT IS HIGH. DATA ON BUS WHEN LATCH INPUT GOES LOW IS STORED UNTIL LATCH INPUT GOES HIGH. (LATCH INPUT CONTROLS BOTH ENABLE INPUTS.) TWO QUAD LATCHES CAN BE USED AS AN 8-BIT DATA LATCH.



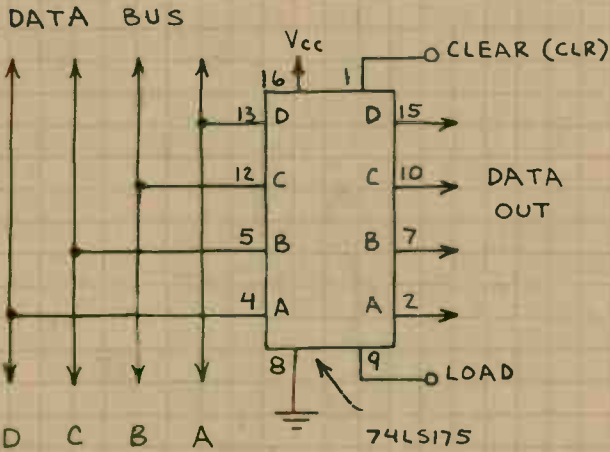
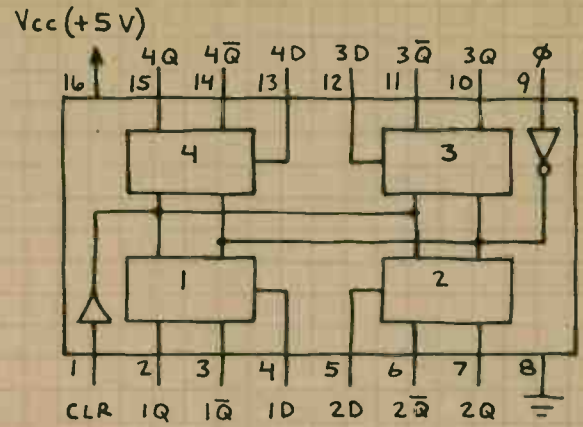
DECIMAL COUNTING UNIT



EXPANDABLE DECADE COUNTER. FOR TWO DIGIT COUNT, CONNECT PIN 11 OF 7490/74LS90 OF FIRST UNIT TO INPUT OF SECOND UNIT. A LOW AT THE LATCH INPUT FREEZES THE DATA BEING DISPLAYED.

QUAD D FLIP-FLOP 74LS175

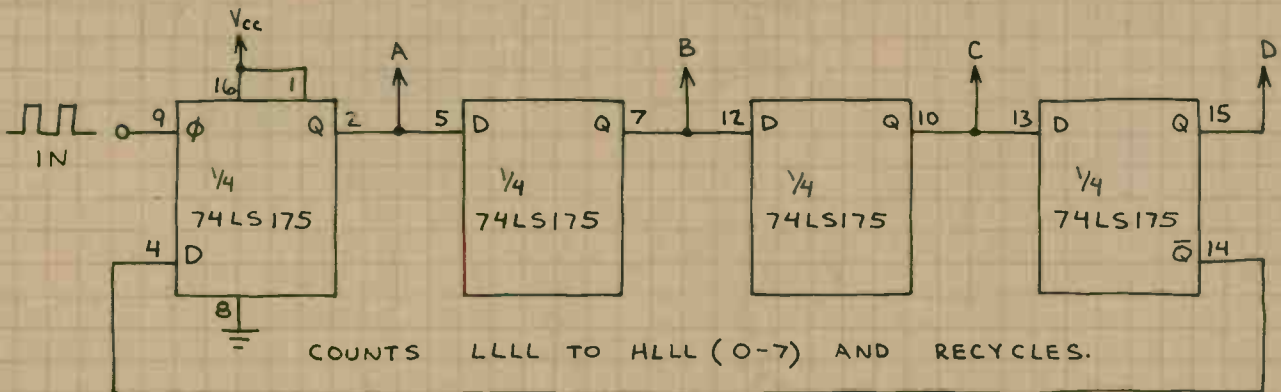
HANDY PACKAGE OF FOUR D-TYPE FLIP-FLOPS. DATA AT D-INPUTS IS LOADED WHEN CLOCK GOES HIGH. MAKING CLEAR INPUT LOW MAKES ALL Q OUTPUTS LOW AND \bar{Q} OUTPUTS HIGH.



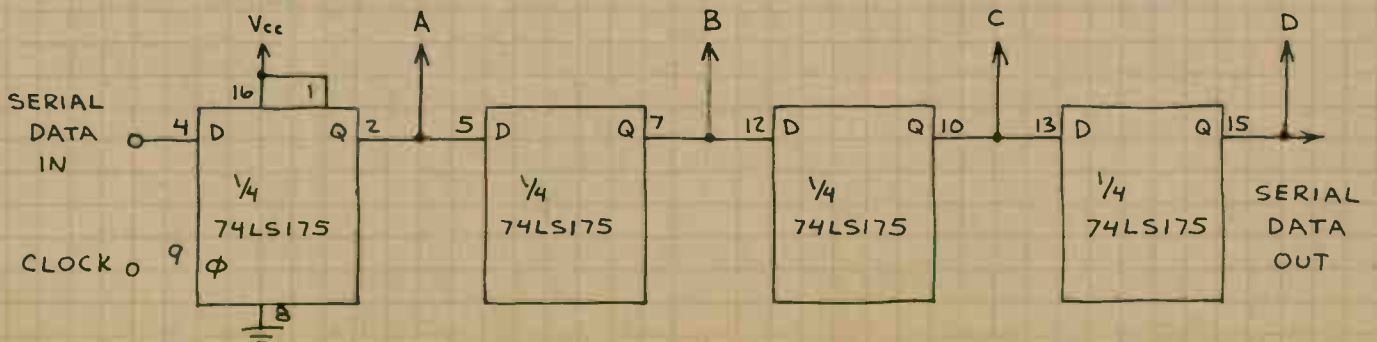
4-BIT DATA REGISTER

DATA ON BUS IS LOADED INTO 74LS175 WHEN LOAD INPUT GOES HIGH. DATA IS THEN STORED AND MADE AVAILABLE AT OUTPUTS UNTIL NEW LOAD PULSE ARRIVES.

MODULO-8 COUNTER

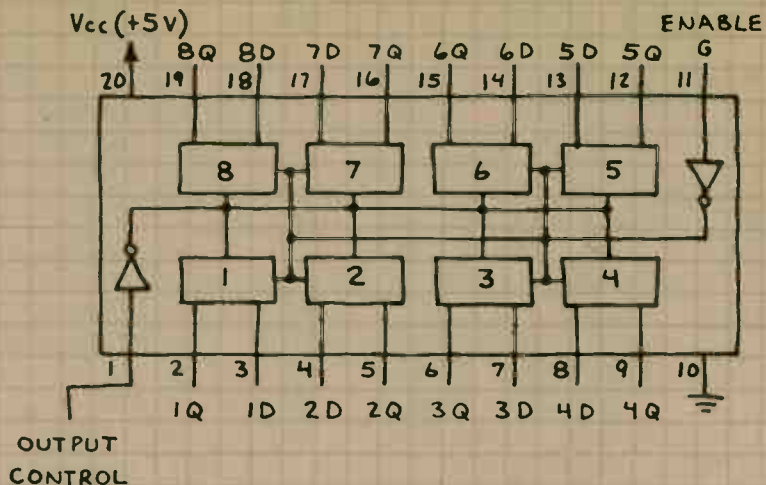


SERIAL IN/OUT, PARALLEL OUT SHIFT REGISTER

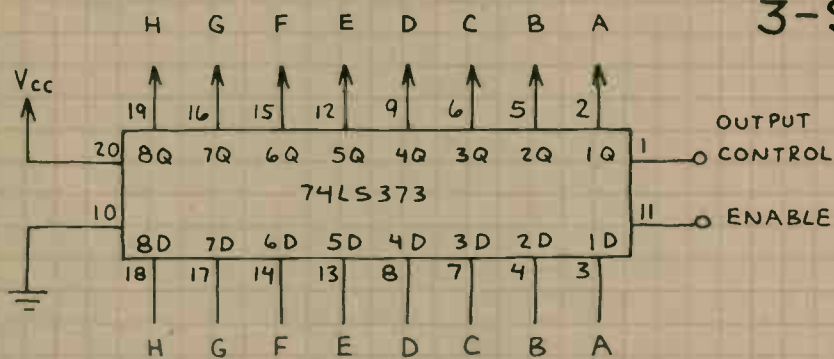


OCTAL D-TYPE LATCH 74LS373

EIGHT "TRANSPARENT" D-TYPE LATCHES. OUTPUT FOLLOWS INPUT WHEN ENABLE IS HIGH. THE DATA AT THE INPUTS IS LOADED WHEN THE ENABLE INPUT IS LOW. THIS CHIP HAS 3-STATE OUTPUTS WHICH ARE CONTROLLED BY PIN 1. SEE TRUTH TABLE BELOW.



3-STATE REGISTER



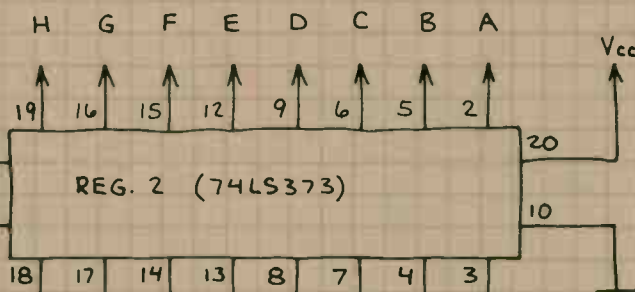
THIS IS A GENERAL PURPOSE 8-BIT STORAGE REGISTER. HERE'S THE TRUTH TABLE:

OUTPUT CONTROL	ENABLE	D	Q
L	H	H	H
L	H	L	L
L	L	X	Q
H	X	X	HI-Z

DATA BUS REGISTERS

H: PLACES OUTPUTS IN HI-Z MODE
L: MAKES DATA AVAILABLE

H: OUTPUTS FOLLOW DATA ON BUS
L: LOAD DATA FROM BUS



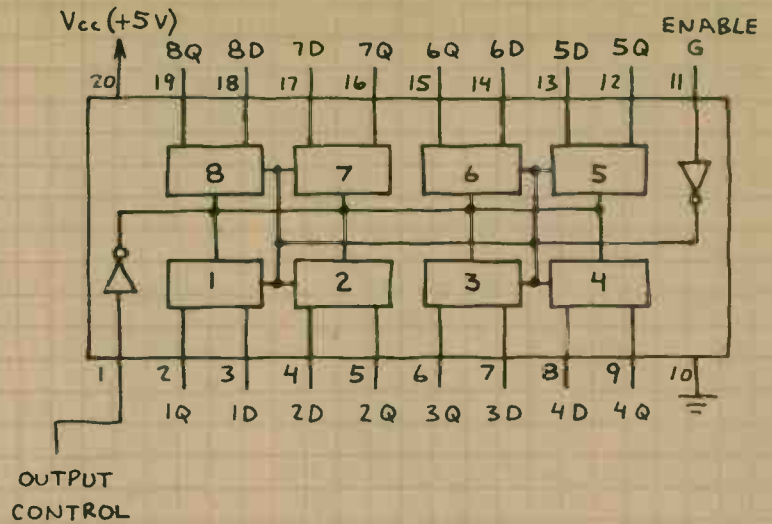
H: DISCONNECTS REG. 1 FROM BUS.
L: CONNECTS REG. 1 TO BUS.

H: OUTPUTS FOLLOW INPUTS.
L: INPUT DATA (ON BUS) LOADED.

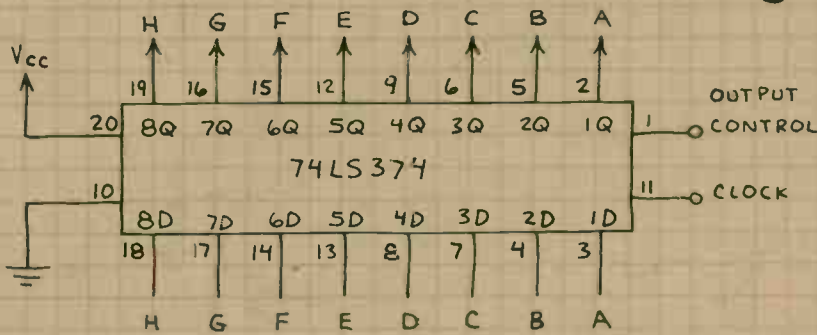
AT ANY INSTANT ONLY ONE 74LS373 CAN WRITE DATA ON THE BUS. ANY NUMBER CAN READ DATA FROM BUS.

OCTAL D FLIP-FLOP 74LS374

EIGHT D-TYPE EDGE TRIGGERED FLIP-FLOPS. UNLIKE 74LS373, OUTPUTS DO NOT FOLLOW INPUTS. INSTEAD, A RISING CLOCK PULSE AT PIN 11 LOADS DATA APPEARING AT INPUTS. THIS CHIP HAS 3-STATE OUTPUTS WHICH ARE CONTROLLED BY PIN 1.



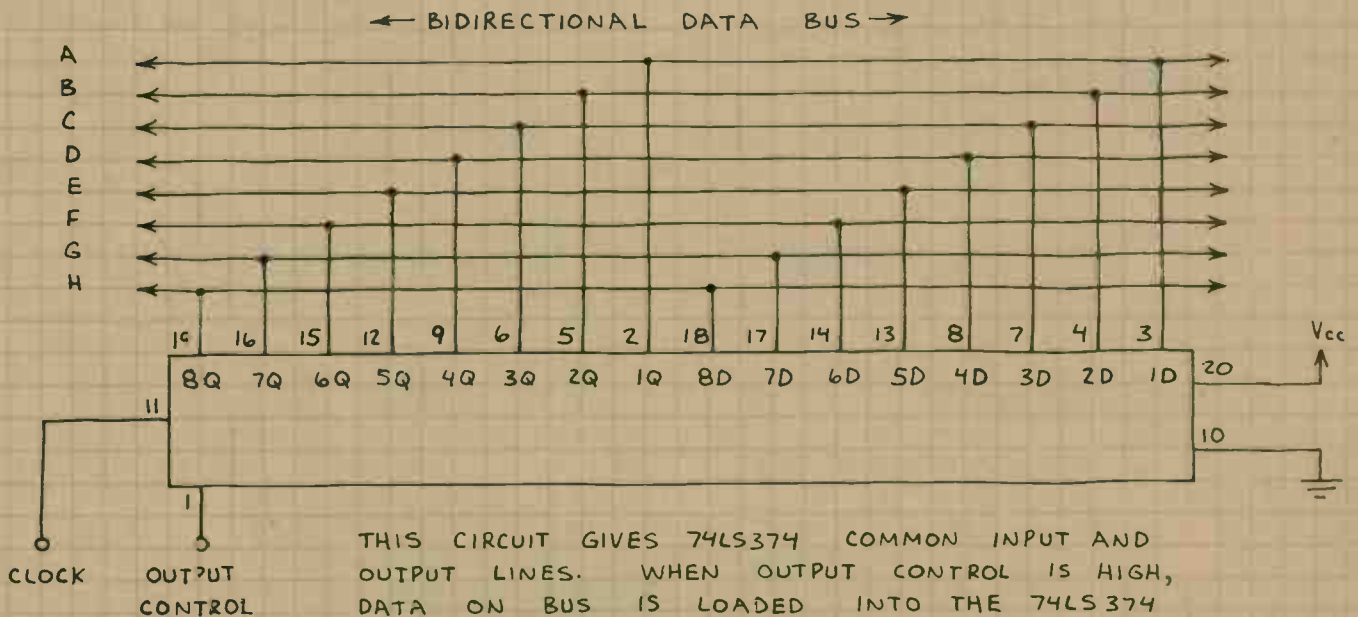
CLOCKED 3-STATE REGISTER



GENERAL PURPOSE CLOCKED REGISTER. HERE'S THE TRUTH TABLE:

OUTPUT CONTROL	CLOCK	D	Q
L	⌋	H	H
L	⌋	L	L
L	H	X	Q
H	X	X	HI-Z

COMMON INPUT/OUTPUT BUS REGISTER

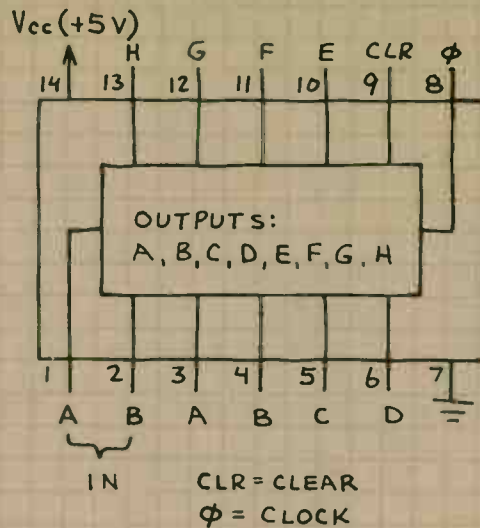


THIS CIRCUIT GIVES 74LS374 COMMON INPUT AND OUTPUT LINES. WHEN OUTPUT CONTROL IS HIGH, DATA ON BUS IS LOADED INTO THE 74LS374 ON THE RISING EDGE (⌋) OF THE CLOCK PULSE. WHEN OUTPUT CONTROL IS LOW, DATA IN THE 74LS374 IS WRITTEN ONTO THE BUS.

8-BIT SHIFT REGISTER

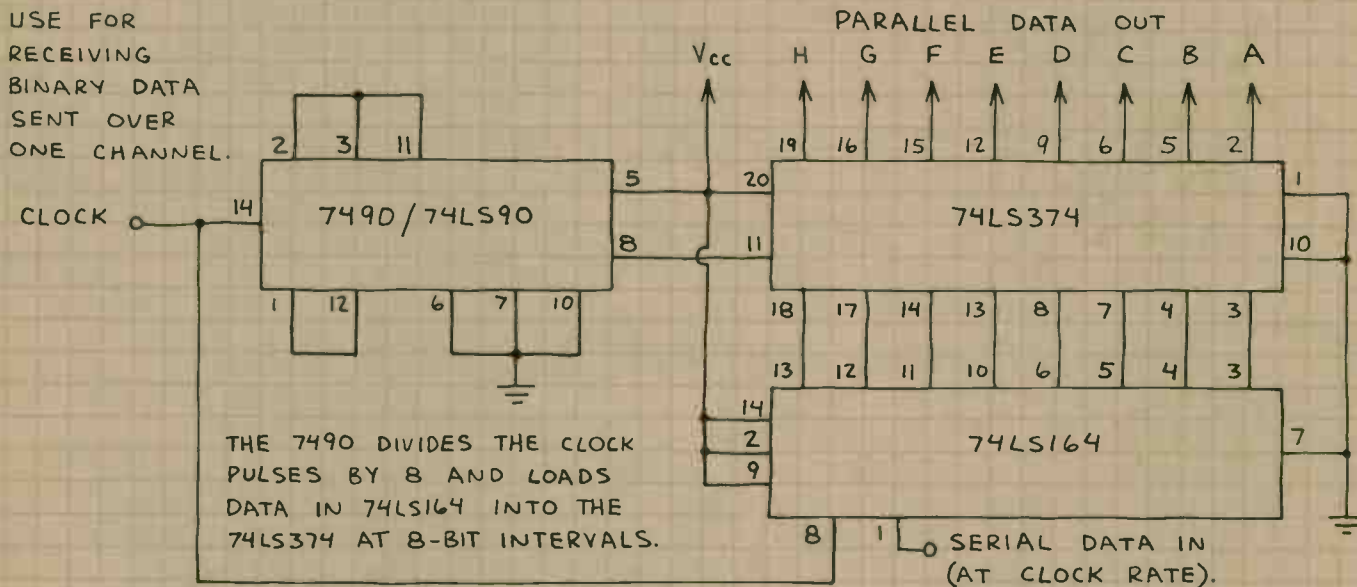
74LS164

DATA AT ONE OF THE TWO SERIAL INPUTS IS ADVANCED ONE BIT FOR EACH CLOCK PULSE. DATA CAN BE EXTRACTED FROM THE 8 PARALLEL OUTPUTS OR IN SERIAL FORM AT ANY SINGLE OUTPUT. ENTER DATA AT EITHER INPUT. THE UNUSED INPUT MUST BE HELD HIGH OR CLOCKING WILL BE INHIBITED. MAKING PIN 9 LOW CLEARS THE REGISTER TO LLLL.

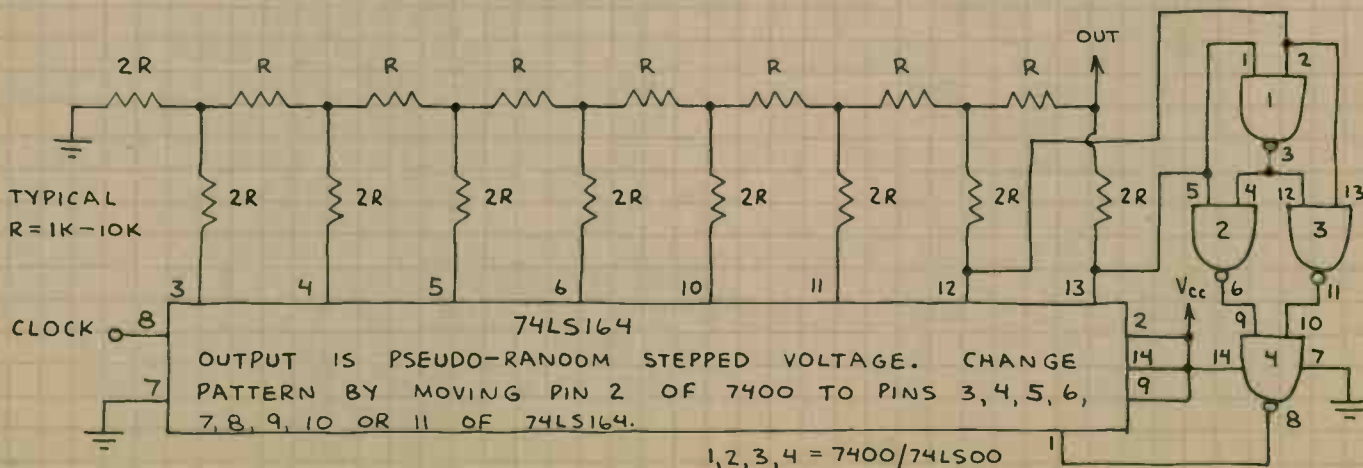


8-BIT SERIAL-TO-PARALLEL DATA CONVERTER

USE FOR RECEIVING BINARY DATA SENT OVER ONE CHANNEL.

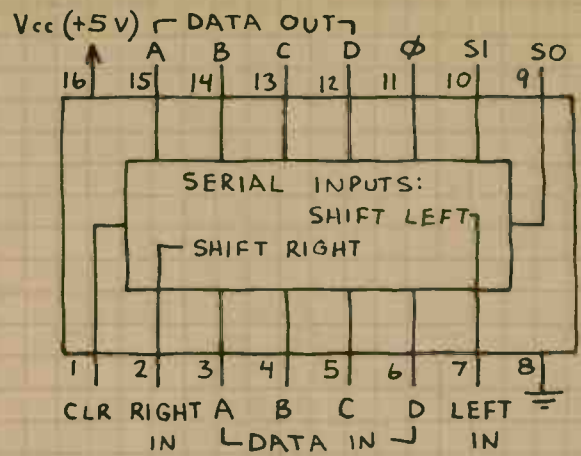


PSEUDO-RANDOM VOLTAGE GENERATOR

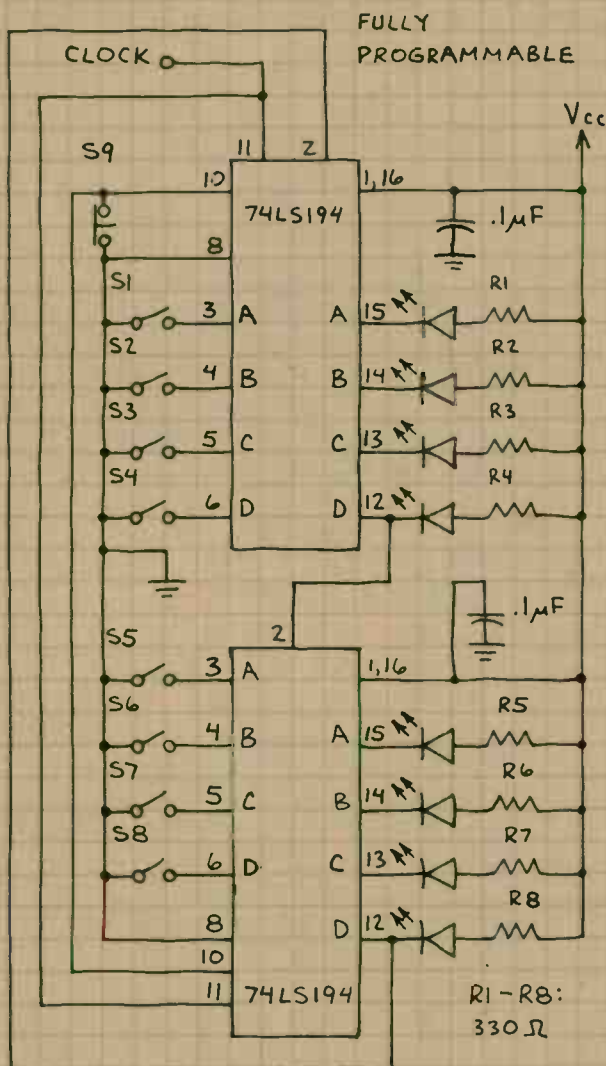


4-BIT SHIFT REGISTER 74LS194

BIDIRECTIONAL UNIVERSAL SHIFT REGISTER. SHIFTS RIGHT WHEN SO IS HIGH AND SI IS LOW. SHIFTS LEFT WHEN SO IS LOW AND SI IS HIGH. SHIFTS ONE POSITION PER CLOCK PULSE. LOADS DATA AT INPUTS WHEN SO AND SI ARE HIGH. IMPORTANT: BYPASS POWER SUPPLY PINS WITH 0.1μF CAPACITOR!



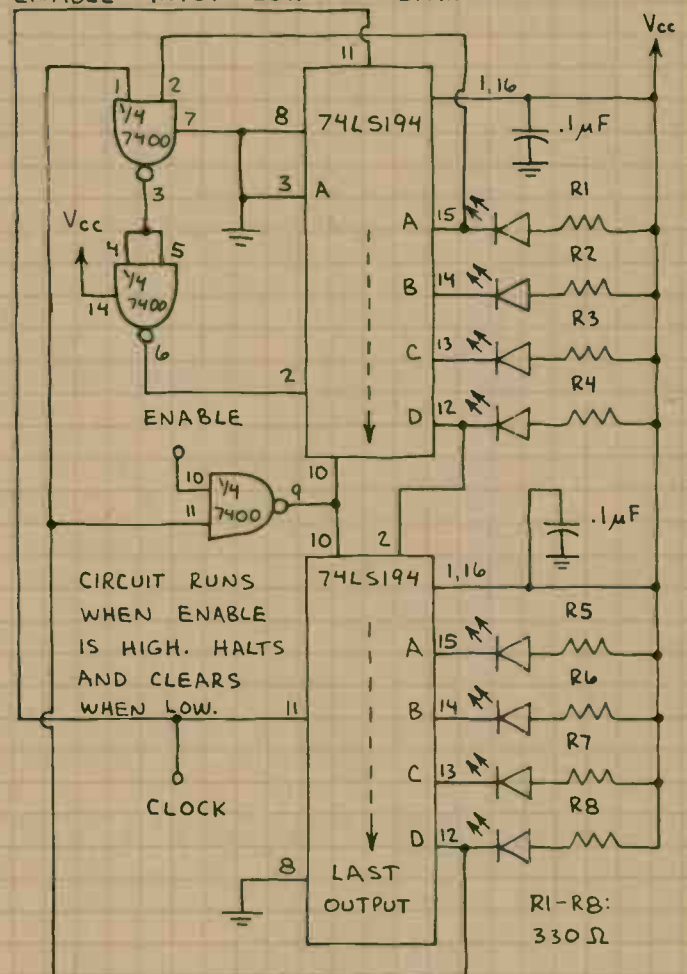
SEQUENCE GENERATOR



LOAD ANY DESIRED BIT PATTERN INTO SI-S8 (OPEN = HIGH AND CLOSED = LOW). PRESS S9 (NORMALLY CLOSED) TO LOAD. DATA WILL MOVE RIGHT ONE OUTPUT PER CLOCK PULSE. LEDs ARE OPTIONAL.

BARGRAPH GENERATOR

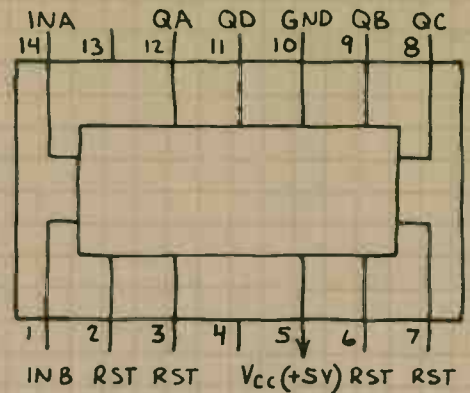
WHEN POWER IS FIRST APPLIED, MAKE ENABLE INPUT LOW TO START CIRCUIT.



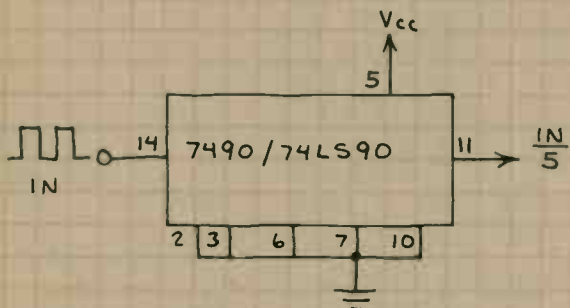
OUTPUTS GO LOW AND STAY LOW ONE AT A TIME FROM LEFT TO RIGHT (A→D) IN SEQUENCE WITH CLOCK. WHEN FINAL OUTPUT GOES LOW, ALL OUTPUTS BUT THE FIRST GO HIGH AND RECYCLE.

BCD (DECADE) COUNTER 7490/74LS90

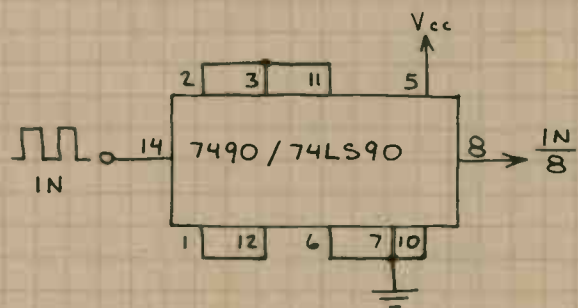
ONE OF THE MOST POPULAR DECADE COUNTERS. EASILY USED FOR DIVIDE-BY-N COUNTERS. LESS EXPENSIVE THAN MORE SOPHISTICATED COUNTERS. RST INDICATES RESET PINS. THIS CHIP IS USUALLY USED IN DECIMAL COUNTING UNITS, BUT CIRCUITS ON THIS PAGE SHOW MANY OTHER POSSIBILITIES.



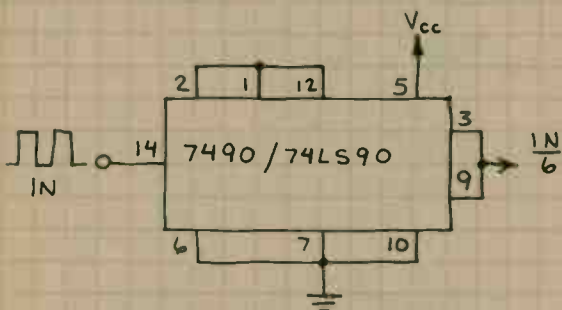
DIVIDE-BY-5 COUNTER



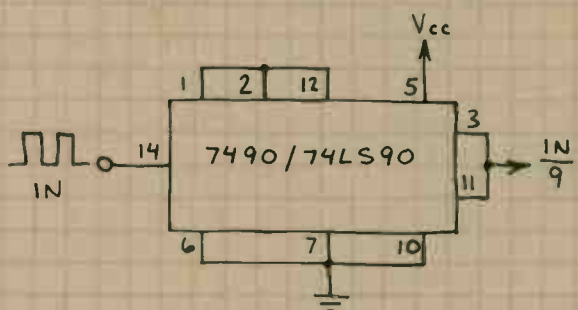
DIVIDE-BY-8 COUNTER



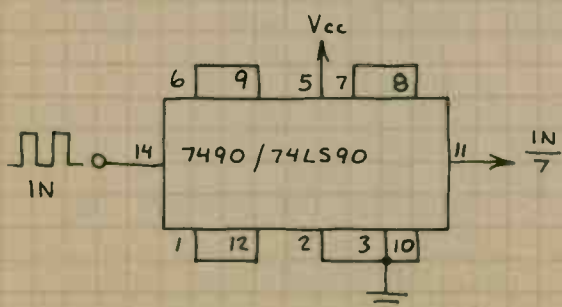
DIVIDE-BY-6 COUNTER



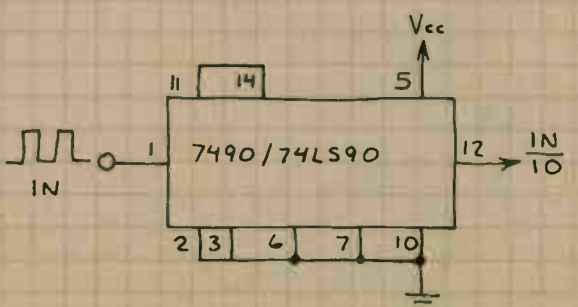
DIVIDE-BY-9 COUNTER



DIVIDE-BY-7 COUNTER

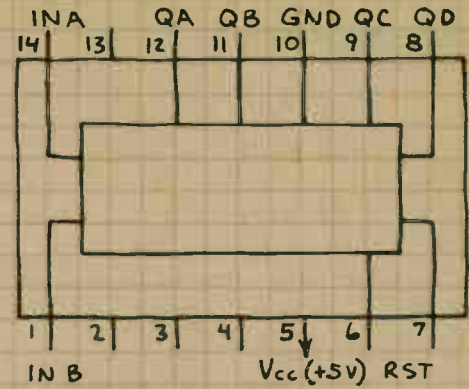


DIVIDE-BY-10 COUNTER

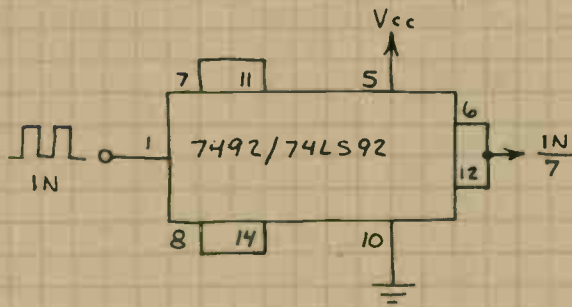


DIVIDE-BY-12 BINARY COUNTER 7492/74LS92

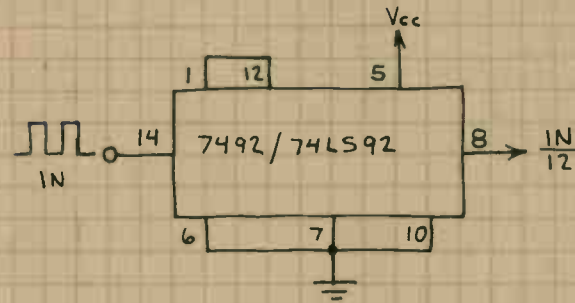
OFTEN USED TO DIVIDE CONDITIONED 60 HZ PULSES FROM AC POWER LINE INTO 10 HZ PULSES. OTHER DIVIDER APPLICATIONS ALSO. RST INDICATES RESET PINS.



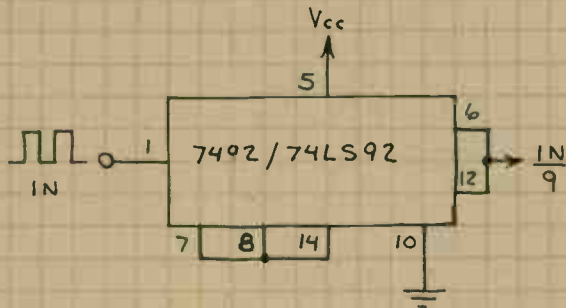
DIVIDE-BY-7 COUNTER



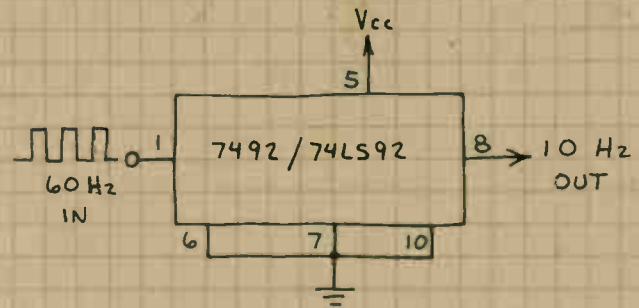
DIVIDE-BY-12 COUNTER



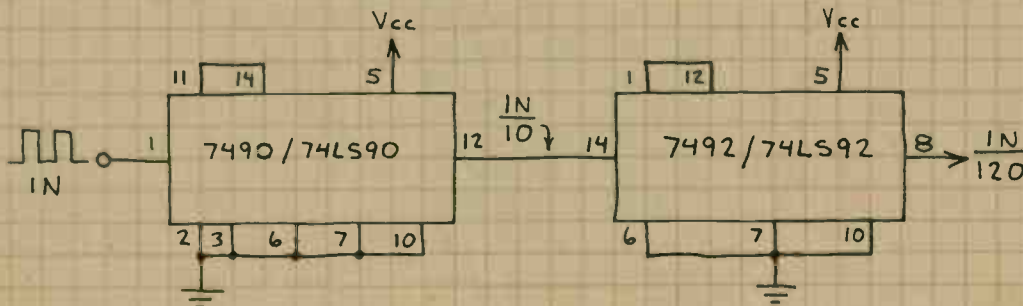
DIVIDE-BY-9 COUNTER



10-HZ PULSE SOURCE



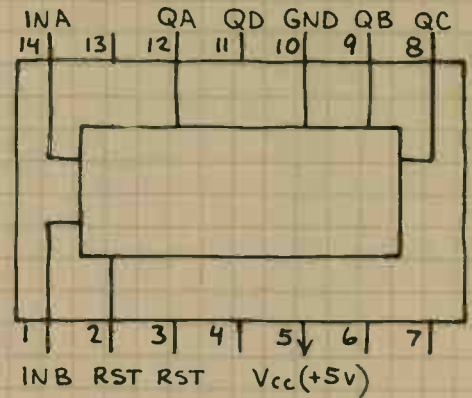
DIVIDE-BY-120 COUNTER



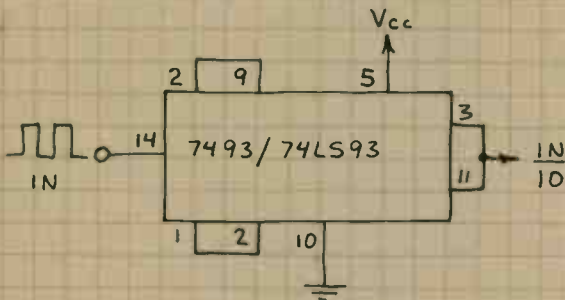
THIS METHOD OF CASCADING COUNTERS CAN BE USED TO CREATE ANY DIVIDE-BY-N COUNTER.

4-BIT (BINARY) COUNTER 7493 / 74LS93

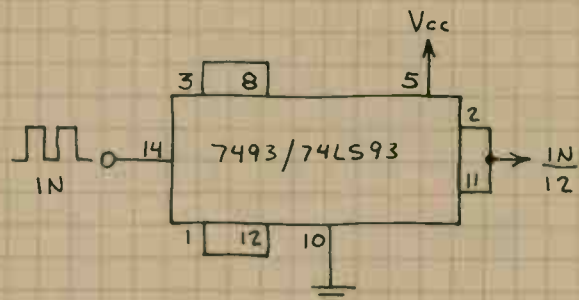
EASY TO USE 4-BIT BINARY COUNTER. LESS EXPENSIVE THAN MORE SOPHISTICATED COUNTERS. RST INDICATES RESET PINS. NOTE UNUSUAL LOCATION OF POWER SUPPLY PINS.



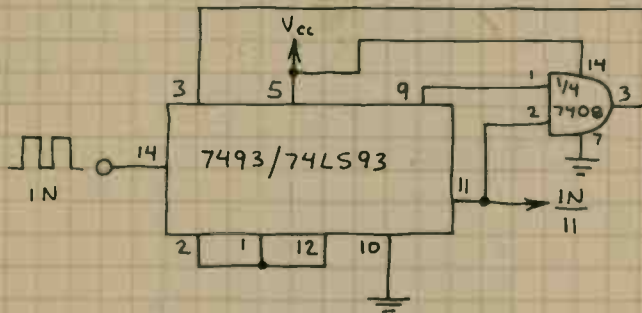
DIVIDE-BY-10 COUNTER



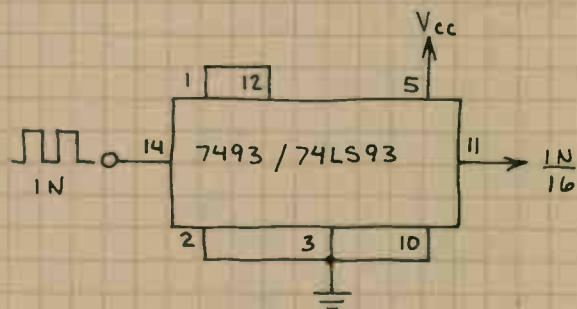
DIVIDE-BY-12 COUNTER



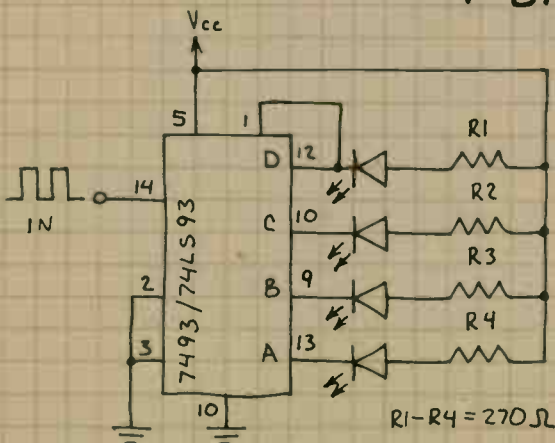
DIVIDE-BY-11 COUNTER



DIVIDE-BY-16 COUNTER



4-BIT BINARY COUNTER



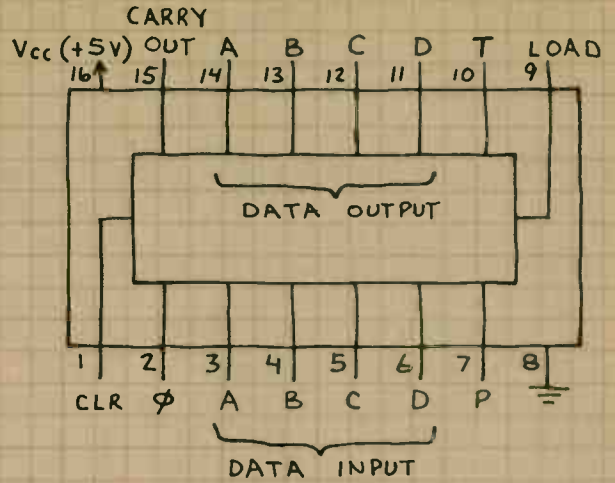
COUNTS FROM 0-15 IN BINARY AND RECYCLES. GLOWING LED = L (0); OFF LED = H (1). 555 TIMER IC MAKES GOOD INPUT CLOCK.

TRUTH TABLE							
D	C	B	A	D	C	B	A
L	L	L	L	H	L	L	L
L	L	L	H	H	L	L	H
L	L	H	L	H	L	H	L
L	L	H	H	H	L	H	H
L	H	L	L	H	H	L	L
L	H	L	H	H	H	L	H
L	H	H	L	H	H	H	L
L	H	H	H	H	H	H	H

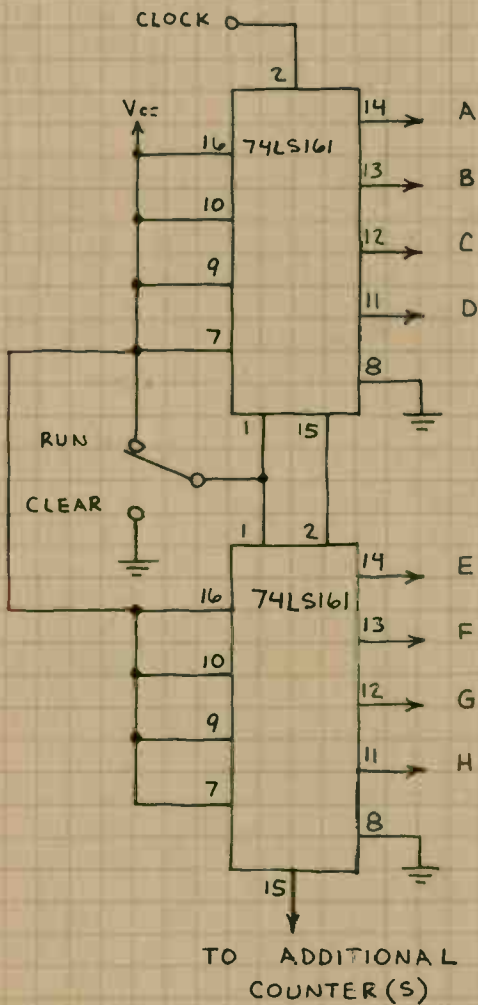
4-BIT UP COUNTER

74LS161

GENERAL PURPOSE BINARY COUNTER WITH PROGRAMMABLE INPUTS. COUNTER ACCEPTS DATA AT INPUTS WHEN LOAD INPUT GOES LOW. A LOW AT THE CLEAR INPUT RESETS THE COUNTER TO LLLL UPON THE NEXT CLOCK PULSE. P AND T ARE COUNT ENABLE INPUTS. BOTH P AND T MUST BE HIGH TO COUNT. THESE ENABLE INPUTS ARE NOT AVAILABLE WITH THE OTHERWISE MORE ADVANCED 74LS193.

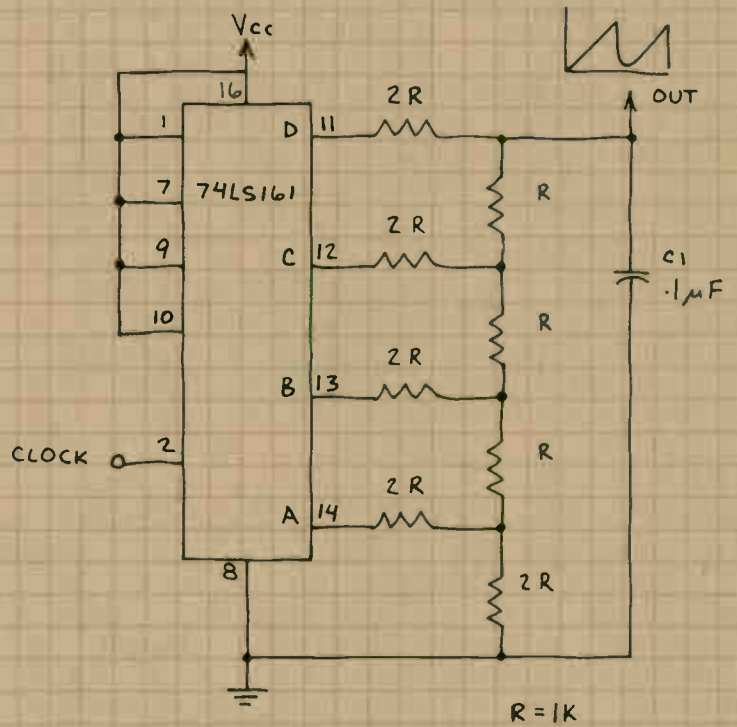


8-BIT COUNTER



OUTPUT A IS LOWEST ORDER BIT.

RAMP SYNTHESIZER

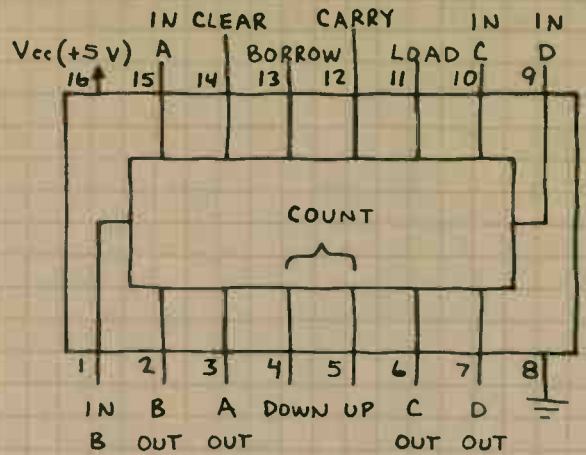


REMOVE C1 TO OBTAIN THIS STAIRCASE. FREQUENCY OF RAMP AND STAIRCASE IS 1/16 CLOCK FREQUENCY.

BCD UP-DOWN COUNTER

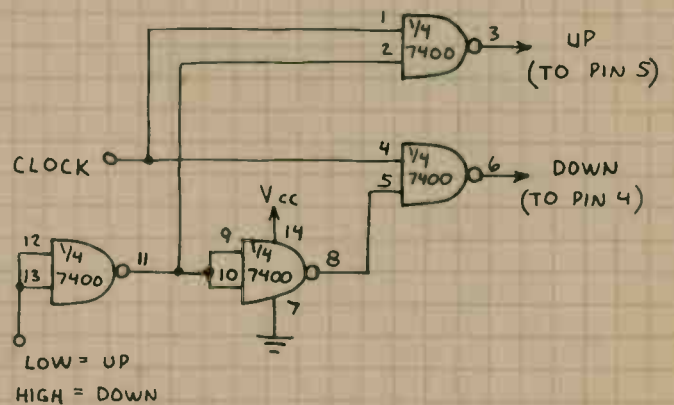
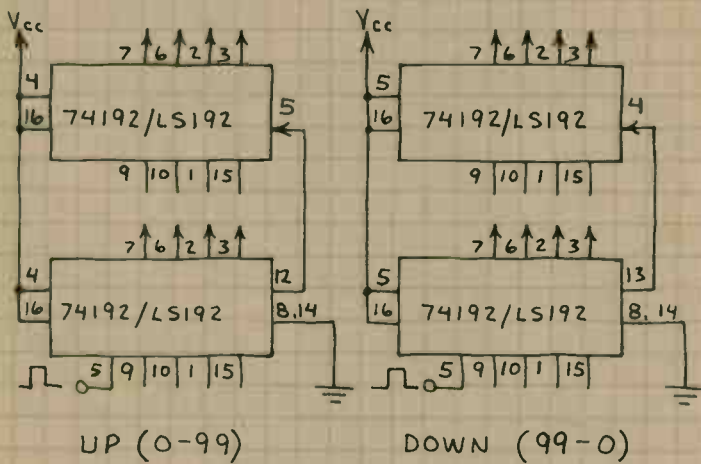
74192/74LS192

FULLY PROGRAMMABLE BCD COUNTER. OPERATION IS IDENTICAL TO 74193/74LS193 EXCEPT COUNT IS 10-STEP BCD (LLLL-HLLH) INSTEAD OF 16-STEP BINARY. MANY APPLICATIONS FOR 74192/74LS192 AND 74193/74LS193 ARE INTERCHANGEABLE.

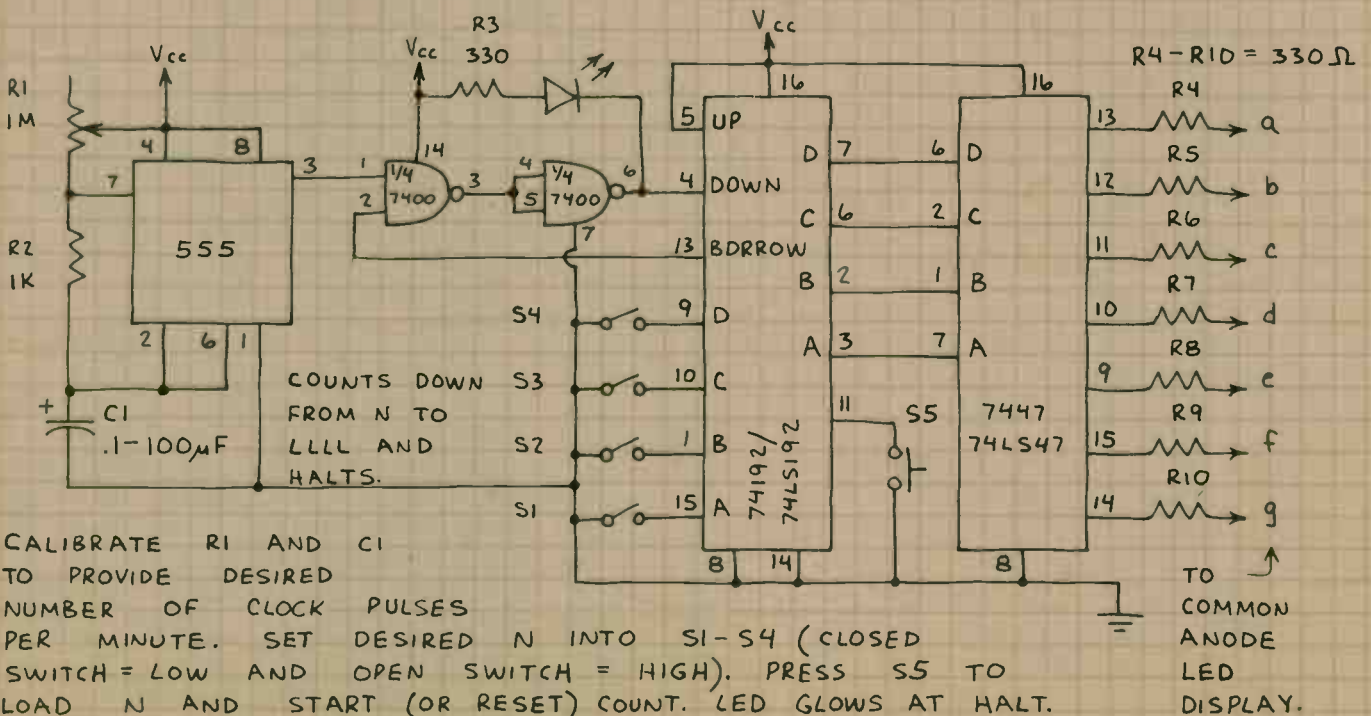


CASCADED COUNTERS

SINGLE UP-DOWN INPUT



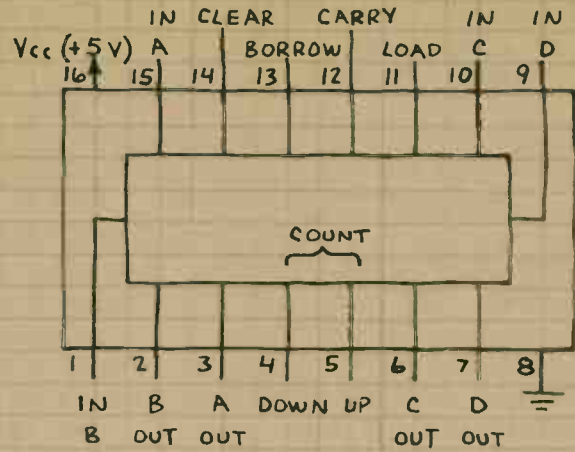
PROGRAMMABLE COUNT DOWN TIMER



4-BIT UP-DOWN COUNTER

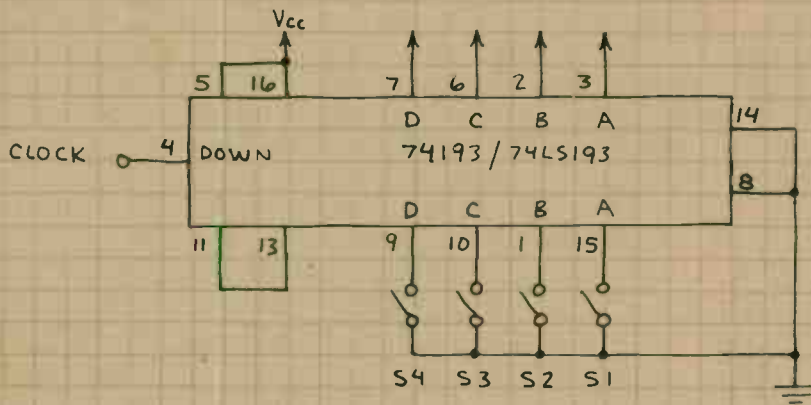
74193 / 74LS193

VERY VERSATILE 4-BIT COUNTER WITH UP-DOWN CAPABILITY. ANY 4-BIT NUMBER AT THE DCBA INPUTS IS LOADED INTO THE COUNTER WHEN THE LOAD INPUT (PIN 11) IS MADE LOW. THE COUNTER IS CLEARED TO LLLL WHEN THE CLEAR INPUT (PIN 14) IS MADE HIGH. THE BORROW AND CARRY OUTPUTS INDICATE UNDERFLOW OR OVERFLOW BY GOING LOW.



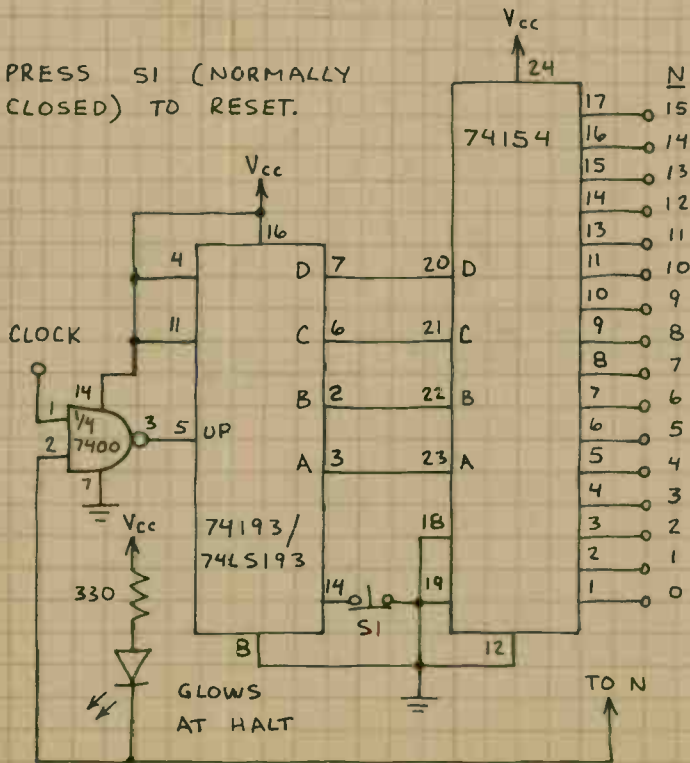
COUNT DOWN FROM N AND RECYCLE

SET DESIRED N INTO S1-S4 (CLOSED SWITCH = LOW AND OPEN SWITCH = HIGH). WHEN COUNT REACHES LLLL AND THEN UNDERFLOWS, THE BORROW PULSE LOADS N AND THE COUNT RECYCLES.

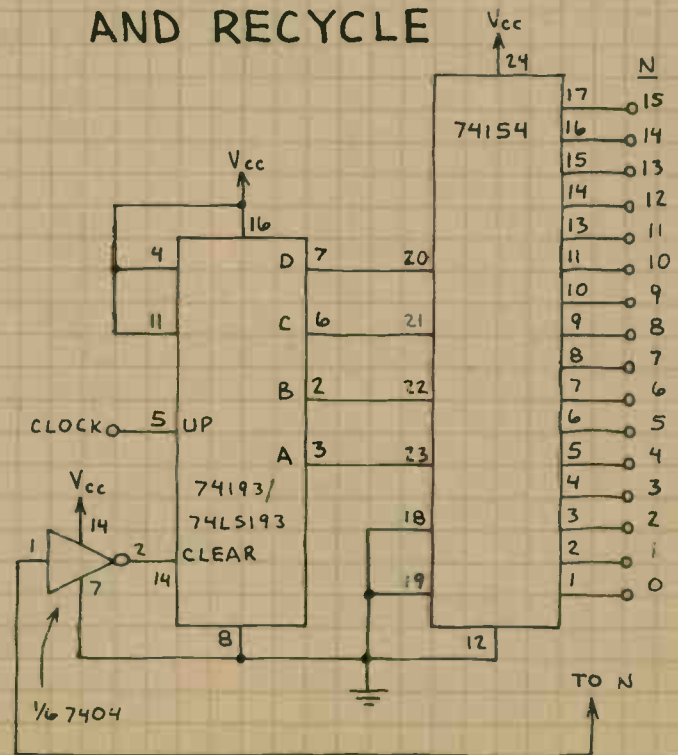


COUNT UP TO N AND HALT

PRESS S1 (NORMALLY CLOSED) TO RESET.

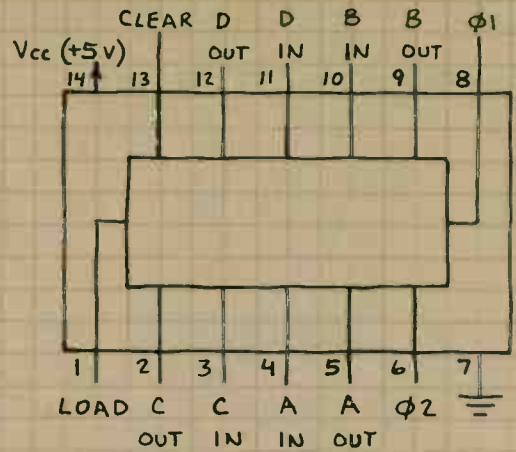


COUNT UP TO N AND RECYCLE

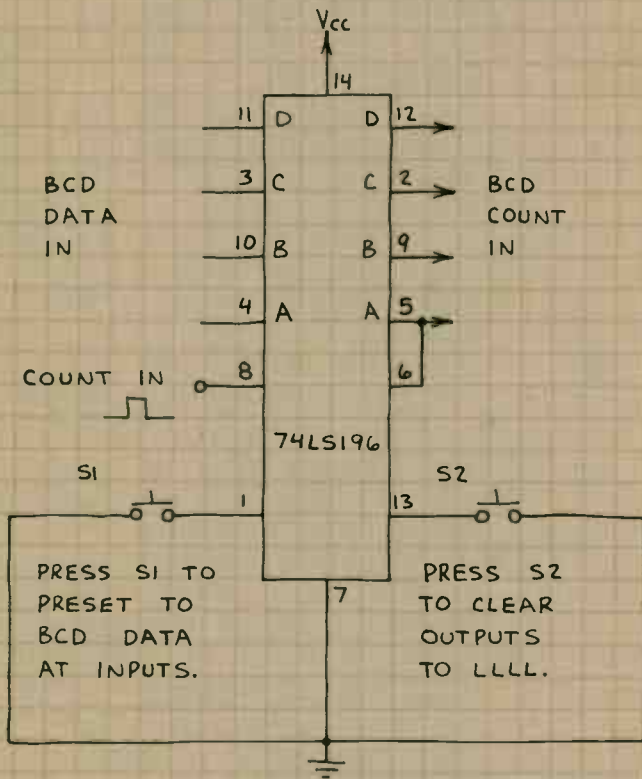


BCD (DECADE) COUNTER 74LS196

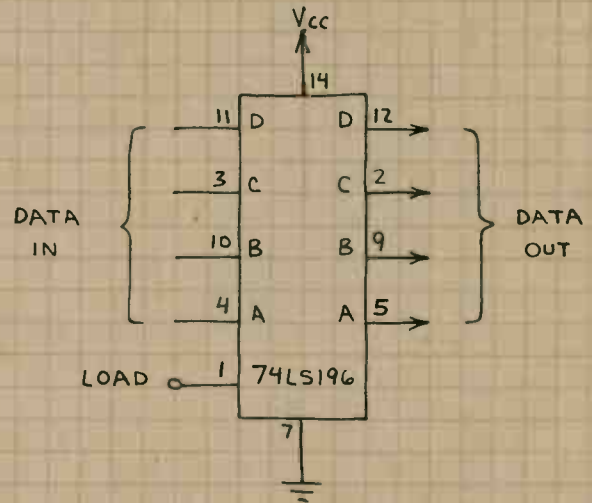
MORE SOPHISTICATED VERSION OF THE POPULAR 7490/74LS90 BCD COUNTER. INCLUDES 4-PRESET INPUTS WHICH PERMIT ANY BCD NUMBER TO BE LOADED WHEN PIN 1 IS MADE LOW. THE COUNTER IS CLEARED TO LLLL WHEN PIN 13 IS MADE LOW. ϕ INDICATES CLOCK INPUT.



DECADE COUNTER

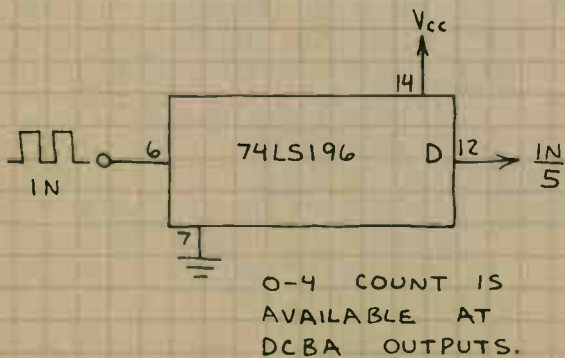


4-BIT LATCH

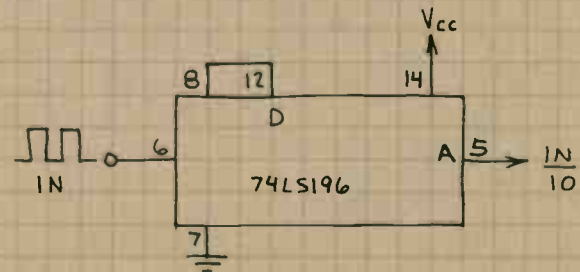


WHEN LOAD INPUT IS LOW, OUTPUTS FOLLOW INPUTS. NO CHANGE WHEN LOAD INPUT IS HIGH. NOTE THAT A PAIR OF 74LS196'S CAN BE USED IN A DECIMAL COUNTING UNIT (COUNTER PLUS REGISTER).

DIVIDE-BY-5 COUNTER



DIVIDE-BY-10 COUNTER



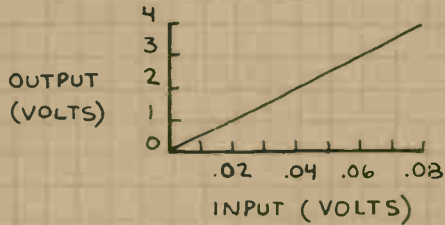
NOTES

NOTES

LINEAR INTEGRATED CIRCUITS

INTRODUCTION

THE OUTPUT OF A LINEAR IC IS PROPORTIONAL TO THE SIGNAL AT ITS INPUT. THE CLASSIC LINEAR IC IS THE OPERATIONAL AMPLIFIER. THIS GRAPH SHOWS THE LINEAR INPUT-OUTPUT RELATIONSHIP OF A TYPICAL OP-AMP CIRCUIT:



MANY NON-DIGITAL ICs—INCLUDING OP-AMPS—CAN BE USED IN BOTH LINEAR AND NON-LINEAR MODES. THEY ARE SOMETIMES DESCRIBED AS ANALOG ICs.

LINEAR ICs GENERALLY REQUIRE MORE EXTERNAL COMPONENTS THAN DIGITAL ICs. THIS INCREASES THEIR SUSCEPTABILITY TO EXTERNAL NOISE AND MAKES THEM A LITTLE TRICKIER TO USE. ON THE OTHER HAND, SOME LINEAR ICs CAN DO ESSENTIALLY THE SAME THING AS A NETWORK OF DIGITAL CHIPS.

HERE'S A BRIEF DESCRIPTION OF THE LINEAR CHIPS IN THIS SECTION:

VOLTAGE REGULATORS

PROVIDE A STEADY VOLTAGE, EITHER FIXED OR ADJUSTABLE, THAT IS UNAFFECTED BY CHANGES IN THE SUPPLY VOLTAGE AS LONG AS THE SUPPLY VOLTAGE IS ABOVE THE DESIRED OUTPUT VOLTAGE.

OPERATIONAL AMPLIFIERS

THE IDEAL AMPLIFIER... ALMOST. HIGH INPUT IMPEDANCE AND GAIN. LOW OUTPUT IMPEDANCE. GAIN IS

EASILY CONTROLLED WITH A SINGLE FEEDBACK RESISTOR. FET INPUT OP-AMPS (BIFETS) HAVE A VERY HIGH FREQUENCY RESPONSE. IT'S USUALLY OK TO SUBSTITUTE OP-AMPS IF BOTH ARE NORMALLY POWERED BY A DUAL POLARITY SUPPLY ($\frac{1}{2}$ LF353 FOR 741C, ETC)... BUT PERFORMANCE WILL IMPROVE OR DECREASE ACCORDING TO THE NEW OP-AMP'S SPECIFICATIONS.

COMPARATOR

SAME AS AN OP-AMP WITHOUT A FEEDBACK RESISTOR. ULTRA-HIGH GAIN GIVES A SNAP-LIKE RESPONSE TO AN INPUT VOLTAGE AT ONE INPUT THAT EXCEEDS A REFERENCE VOLTAGE AT THE SECOND INPUT.

TIMERS

USE ALONE OR WITH OTHER ICs FOR NUMEROUS TIMING AND PULSE GENERATION APPLICATIONS.

LED CHIPS

MOST IMPORTANT ARE A FLASHER CHIP AND A DOT-BARGRAPH ANALOG-TO-DIGITAL DISPLAY. VERY EASY TO USE.

OSCILLATORS

A VOLTAGE CONTROLLED OSCILLATOR AND A COMBINED VOLTAGE-TO-FREQUENCY AND FREQUENCY-TO-VOLTAGE CONVERTER. ALSO INCLUDED IS A TONE DECODER THAT CAN BE SET TO INDICATE A SPECIFIC FREQUENCY.

AUDIO AMPLIFIERS

THIS SECTION INCLUDES SEVERAL EASY TO USE POWER AMPLIFIERS THAT ARE IDEAL FOR DO-IT-YOURSELF STEREO, PUBLIC ADDRESS SYSTEMS, INTERCOMS AND OTHER AUDIO APPLICATIONS.

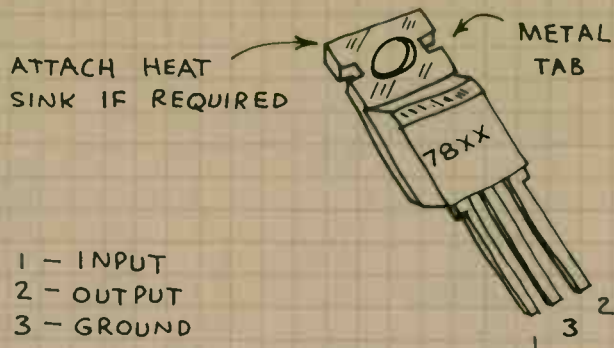
VOLTAGE REGULATORS

7805 (5-VOLTS)

7812 (12-VOLTS)

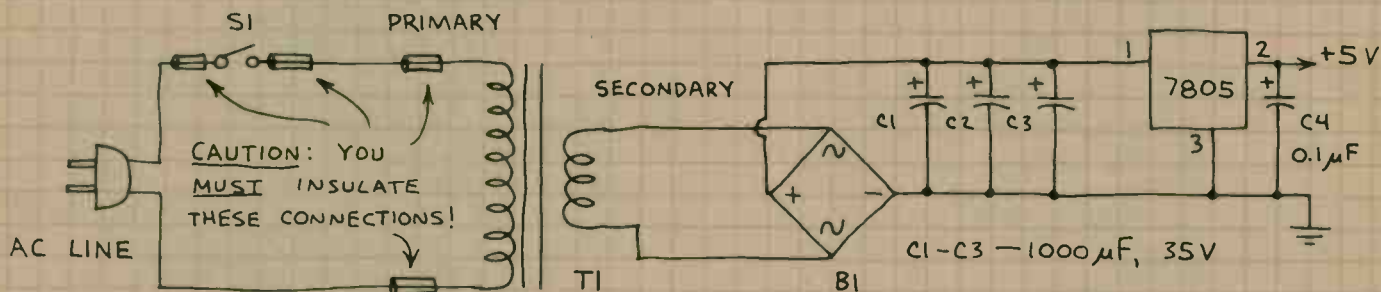
7815 (15-VOLTS)

FIXED VOLTAGE REGULATORS. IDEAL FOR STAND-ALONE POWER SUPPLIES, ON-CARD REGULATORS, AUTOMOBILE BATTERY POWERED PROJECTS, ETC. UP TO 1.5 AMPERES OUTPUT IF PROPERLY HEAT SUNK AND SUFFICIENT INPUT CURRENT AVAILABLE. THERMAL SHUTDOWN CIRCUIT TURNS OFF REGULATOR IF HEATSINK TOO SMALL.



- 1 - INPUT
- 2 - OUTPUT
- 3 - GROUND

5-VOLT LINE POWERED TTL/LS POWER SUPPLY

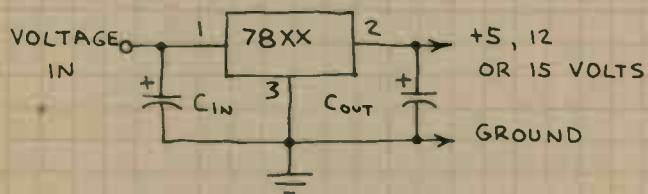


T1 - 117-12.6 V, 1.2A OR 3A TRANSFORMER (273-1505 OR 273-1511).

B1 - 1A-4A FULL WAVE BRIDGE RECTIFIER (276-1161, 276-1151 OR 276-1171).

(RADIO SHACK CATALOG NUMBERS IN PARENTHESES.)

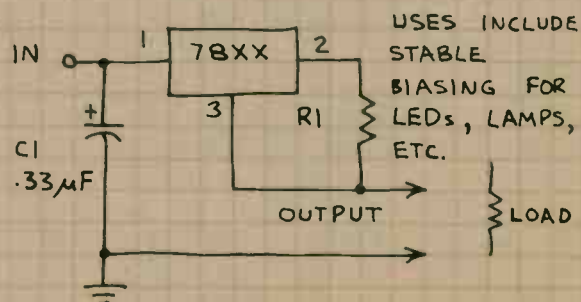
VOLTAGE REGULATOR



C_{IN} - OPTIONAL; USE $0.33\mu F$ OR SO IF REGULATOR FAR FROM POWER SUPPLY.

C_{OUT} - OPTIONAL; USE $0.1\mu F$ OR MORE TO TRAP SPIKES THAT BOTHER LOGIC ICs.

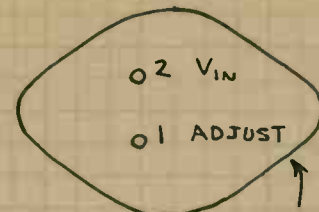
CURRENT REGULATOR



$$\text{OUTPUT CURRENT} = \frac{\text{REGULATOR VOLTS}}{R1}$$

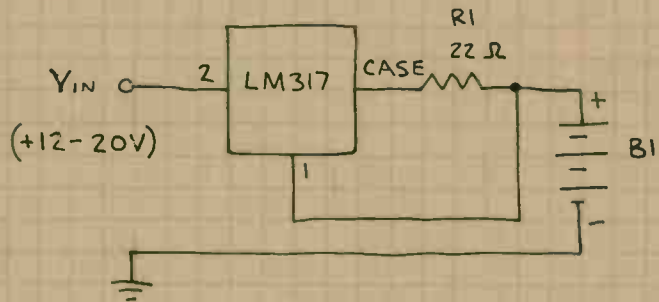
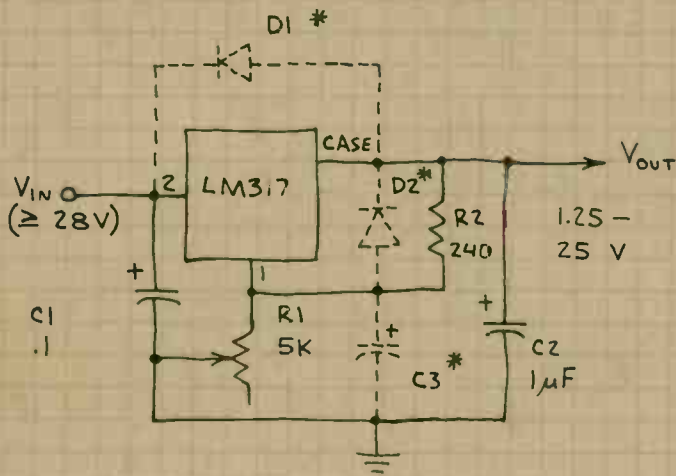
1.2-37 VOLT REGULATOR LM317

CAN SUPPLY UP TO 1.5 AMPERES OVER A 1.2-37 VOLT OUTPUT RANGE. NOTE MINIMUM NUMBER OF EXTERNAL COMPONENTS IN BASIC REGULATOR CIRCUIT BELOW. USE HEAT SINK FOR APPLICATIONS REQUIRING FULL POWER OUTPUT. SEE APPROPRIATE DATA BOOK FOR ADDITIONAL INFORMATION:



BOTTOM VIEW
(TO-3 CASE)

1.25-25 VOLT REGULATOR 6-VOLT NICAD CHARGER

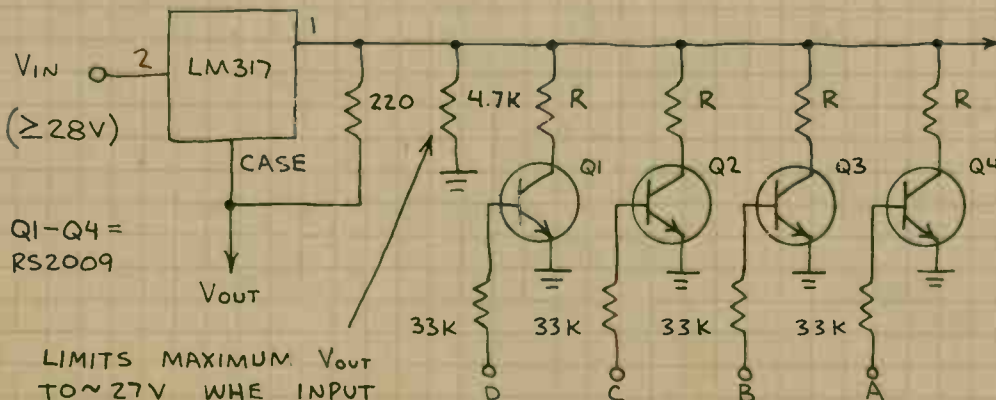


B1 IS BATTERY OF 4 NICKEL CADMIUM STORAGE CELLS IN SERIES. THIS CIRCUIT CHARGES B1 AT A CURRENT OF 51.2 mA. INCREASE R1 TO REDUCE CURRENT. FOR EXAMPLE, CURRENT IS 43 mA WHEN R1 IS 24 OHMS.

V_{IN} SHOULD BE FILTERED. OK TO OMIT C1 IF V_{IN} VERY CLOSE TO LM317. R1 CONTROLS OUTPUT VOLTAGE.

* ADD IF OUTPUT > 25 V AND C2 > 25 μ F.

PROGRAMMABLE POWER SUPPLY



TO ADDITIONAL STAGES

DCBA INPUTS: CONNECT TO PIN 2 TO SELECT.

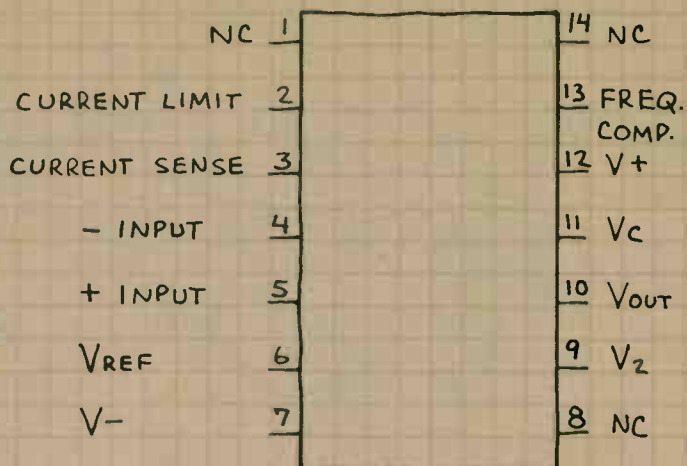
R	V_{OUT}
100	1.8
330	3.0
470	4.0
1K	7.3
2.2K	13.5
3.3K	18.0

LIMITS MAXIMUM V_{out} TO \sim 27V WHE INPUT IS 28 V.

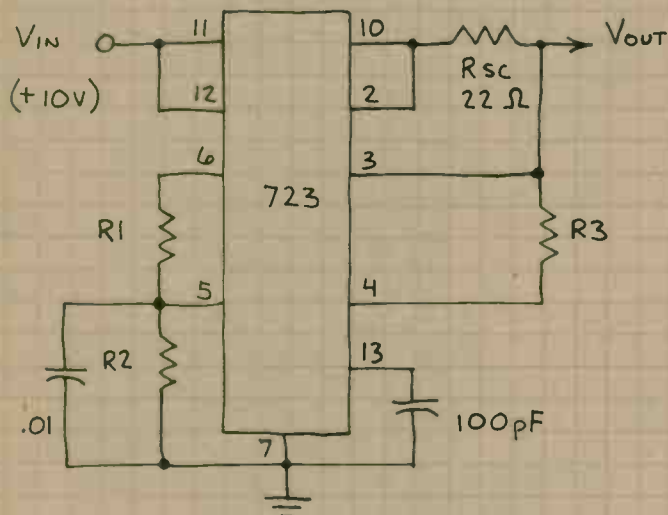
2-37 VOLT REGULATOR

723

VERY VERSATILE SERIES REGULATOR. UP TO 40 VOLTS INPUT AND 2-37 VOLT OUTPUT. MAXIMUM OUTPUT CURRENT OF 150 mA CAN BE EXTENDED TO 10 A BY ADDING EXTERNAL POWER TRANSISTORS. SHOWN BELOW ARE TWO BASIC CIRCUITS. TRY THESE, THEN SEE APPROPRIATE DATA BOOK FOR ADDITIONAL CIRCUITS.



2-7 VOLT REGULATOR



TYPICAL VALUES

V _{out}	R ₁	R ₂	R ₃
3.0	4.12 K	3.01 K	1.74 K
3.6	3.57 K	3.65 K	1.80 K
5.0	2.15 K	4.99 K	1.50 K
6.0	1.15 K	6.04 K	966

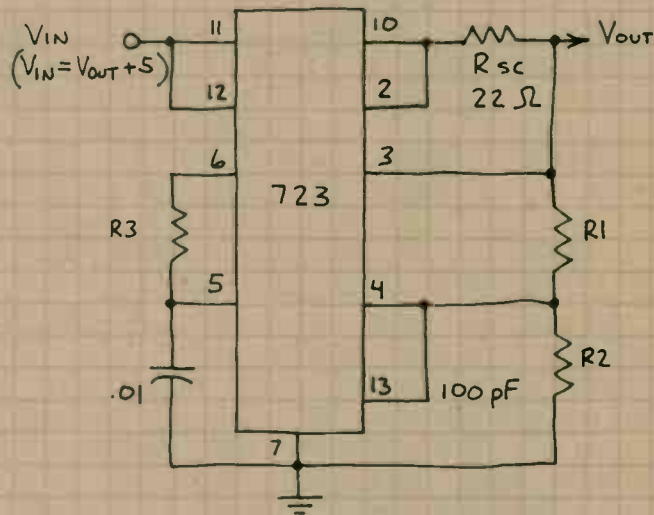
FOR ANY VOLTAGE BETWEEN 2-7 VOLTS:

$$V_{out} = (V_{REF}^*) \times \left(\frac{R_2}{R + R_2} \right)$$

* V_{REF} = 6.8 - 7.5 V (MEASURE AT PIN 6)

$$R_3 = \frac{R_1 \times R_2}{R_1 + R_2}$$

7-37 VOLT REGULATOR



TYPICAL VALUES

V _{out}	R ₁	R ₂	R ₃
9	1.87 K	7.15 K	.48 K
12	4.87 K	7.15 K	2.90 K
15	7.87 K	7.15 K	3.75 K
28	21.0 K	7.15 K	5.33 K

FOR ANY VOLTAGE BETWEEN 7-37 VOLTS:

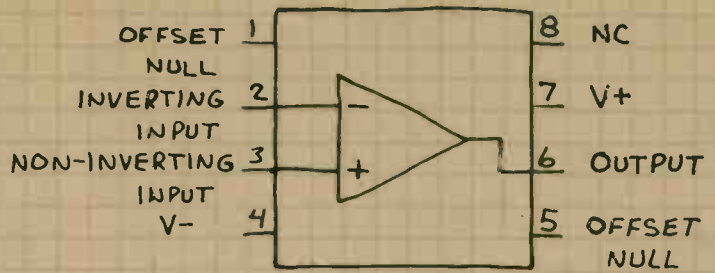
$$V_{out} = (V_{REF}^*) \times \left(\frac{R_1 + R_2}{R_2} \right)$$

$$R_3 = \frac{R_1 \times R_2}{R_1 + R_2} \quad (R_3, \text{ WHICH IS OPTIONAL, GIVES TEMPERATURE STABILITY})$$

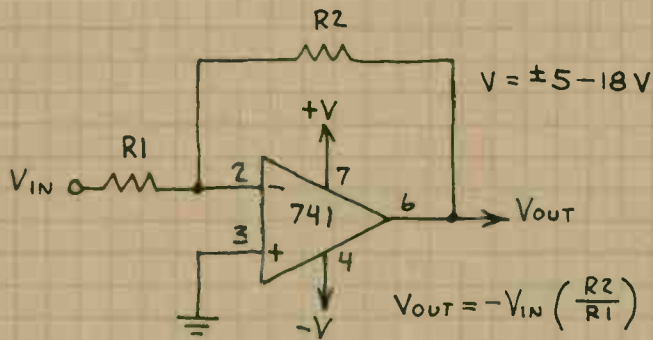
OPERATIONAL AMPLIFIER

741C

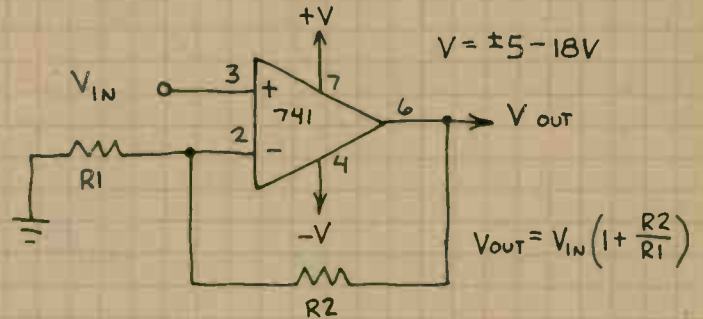
THE MOST POPULAR OP-AMP. USE FOR ALL GENERAL PURPOSE APPLICATIONS. (FOR SINGLE SUPPLY OPERATION AND VERY HIGH INPUT IMPEDANCE, USE OTHER OP-AMPS IN THIS NOTEBOOK.)



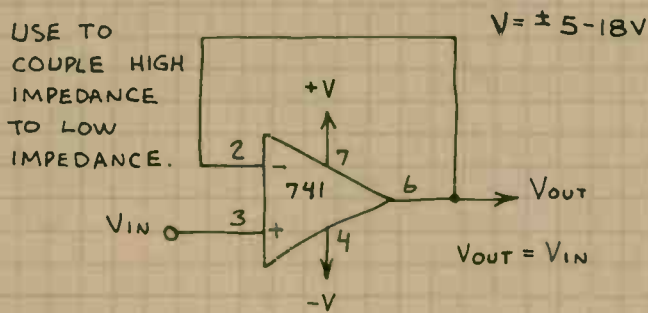
INVERTING AMPLIFIER



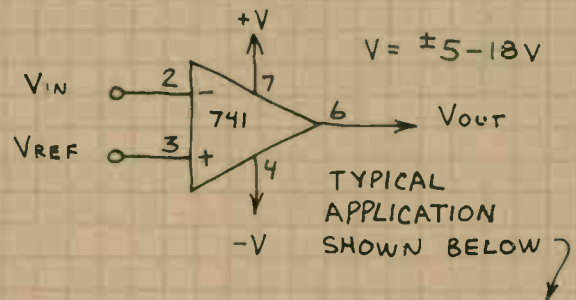
NON-INVERTING AMPLIFIER



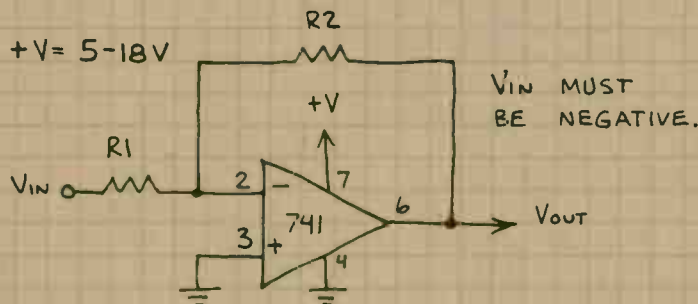
UNITY GAIN FOLLOWER



COMPARATOR

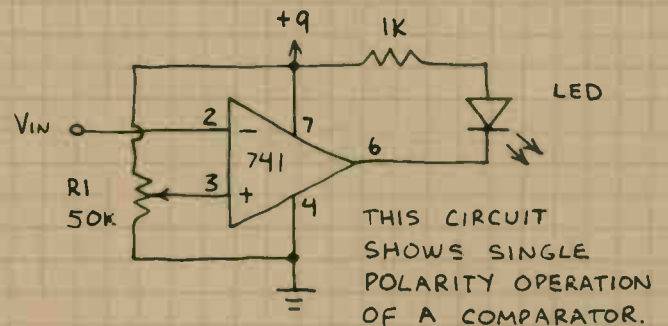


SINGLE POLARITY SUPPLY



TYPICAL USES:
AMPLIFICATION OF DC VOLTAGE AND PULSES.

LEVEL DETECTOR

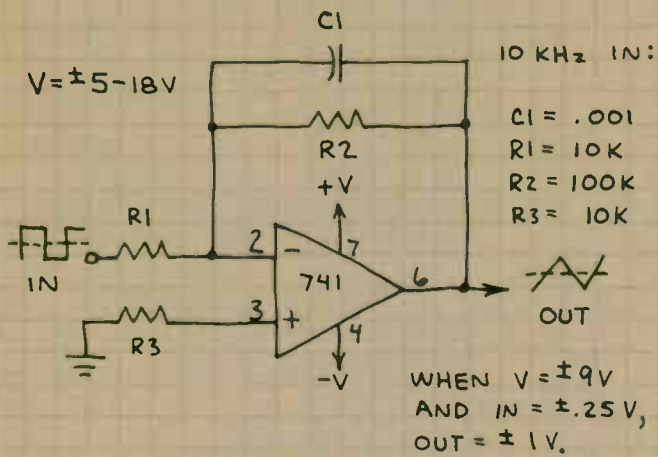


$R1$ SETS THE VOLTAGE DETECTION THRESHOLD (UP TO +9). WHEN V_{IN} EXCEEDS THE THRESHOLD (ALSO CALLED THE REFERENCE), THE LED GLOWS.

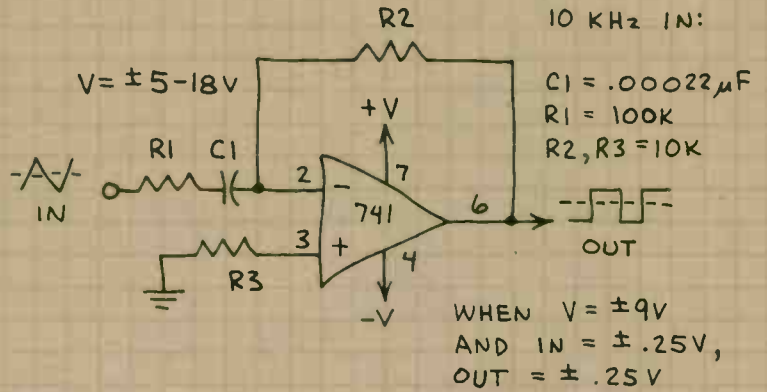
OPERATIONAL AMPLIFIER (CONTINUED)

741C

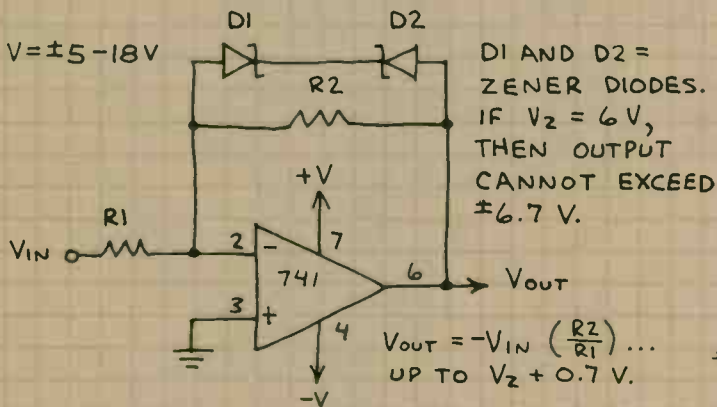
BASIC INTEGRATOR



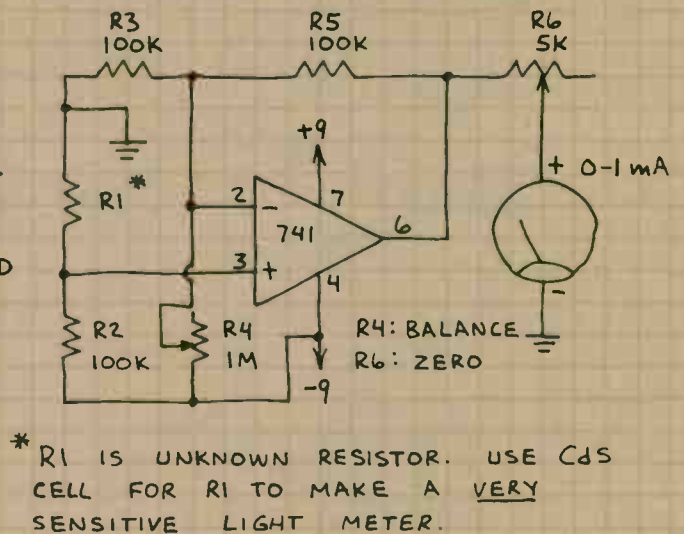
BASIC DIFFERENTIATOR



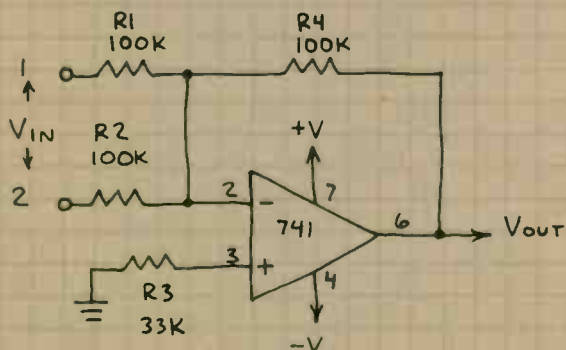
CLIPPING AMPLIFIER



BRIDGE AMPLIFIER



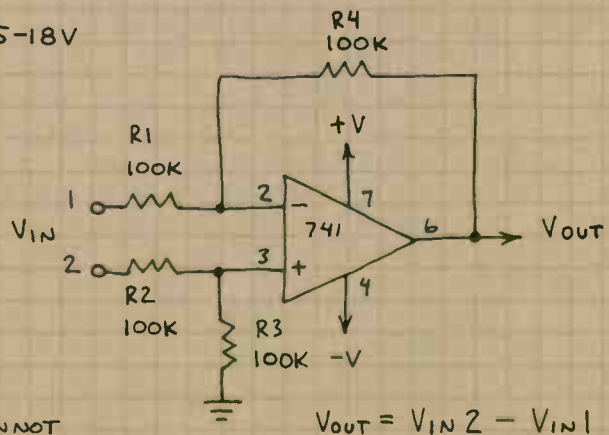
SUMMING AMPLIFIER



$$V_{out} = -(V_{in1} + V_{in2})$$

NOTE: V_{out} CANNOT EXCEED $\pm V$.

DIFFERENCE AMPLIFIER

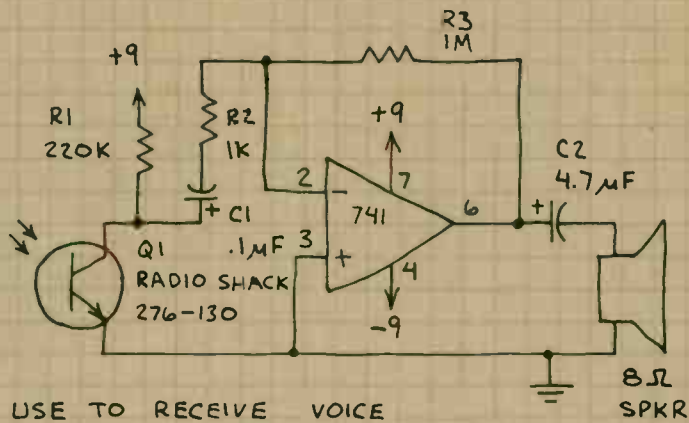


$$V_{out} = V_{in2} - V_{in1}$$

OPERATIONAL AMPLIFIER (CONTINUED)

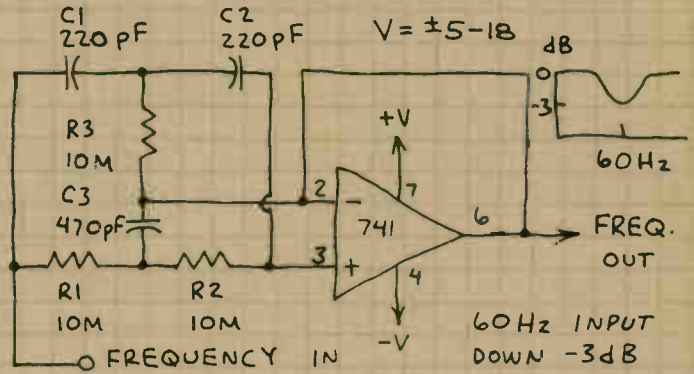
741C

LIGHT WAVE RECEIVER

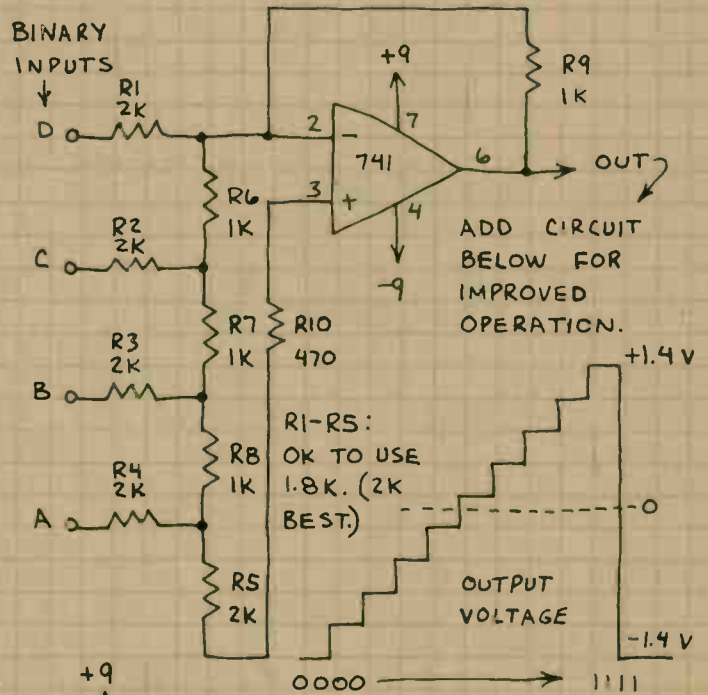


USE TO RECEIVE VOICE MODULATED LIGHT WAVES. OK TO USE SINGLE POLARITY POWER SUPPLY FOR NON-VOICE RECEPTION.

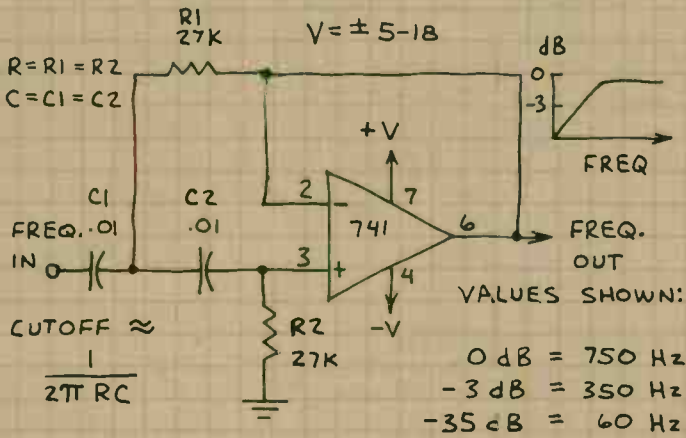
60-Hz NOTCH FILTER



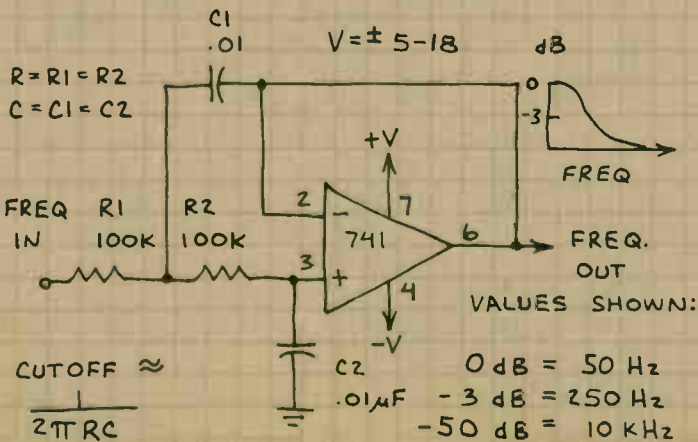
4-BIT D/A CONVERTER



HIGH PASS ACTIVE FILTER



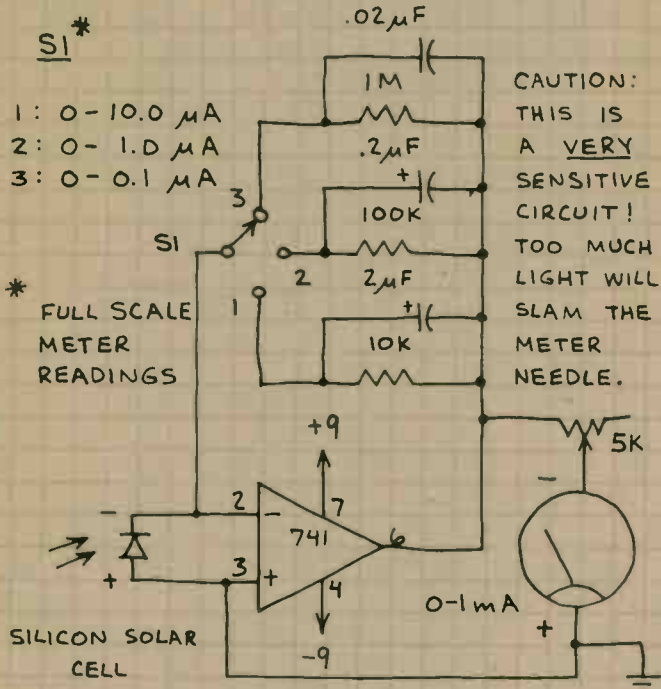
LOW PASS ACTIVE FILTER



OPERATIONAL AMPLIFIER 741C

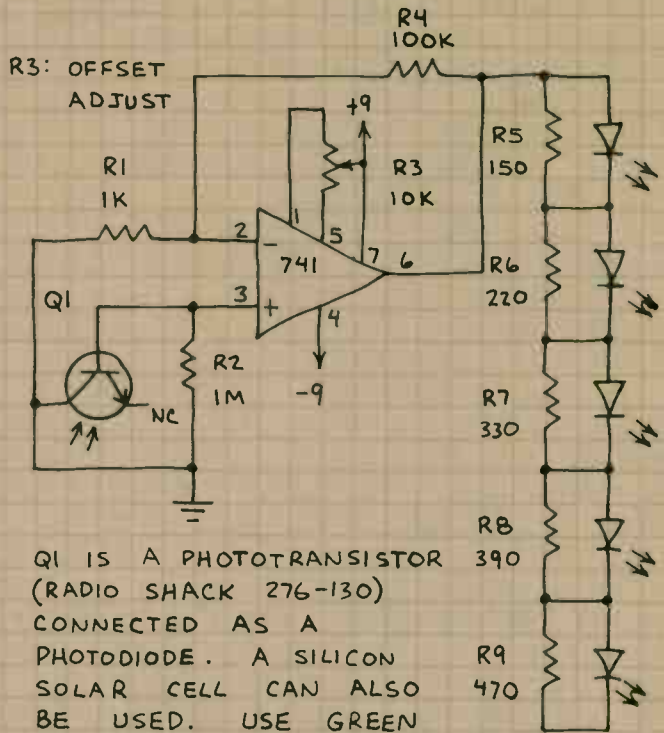
(CONTINUED)

OPTICAL POWER METER

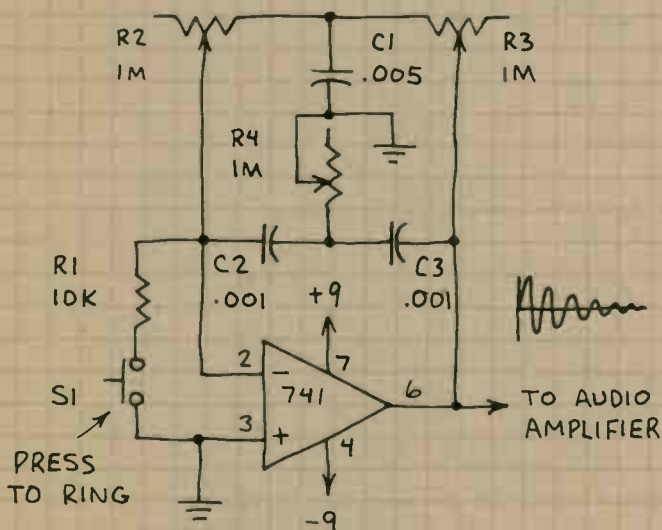


THIS CIRCUIT CAN BE USED AS A FAIRLY GOOD QUALITY RADIOMETER.

BARGRAPH LIGHT METER

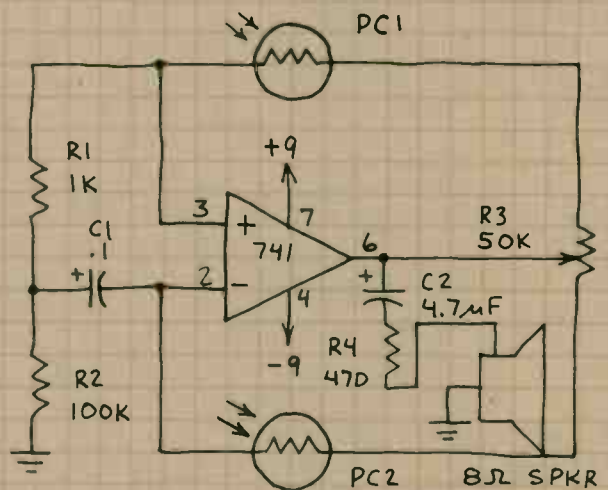


ELECTRONIC BELL



ADJUST R3 TO JUST BELOW OSCILLATION POINT. ADJUST R2 AND R3 FOR SOUNDS SUCH AS BELL, DRUM, TINKLING, ETC.

AUDIBLE LIGHT SENSOR



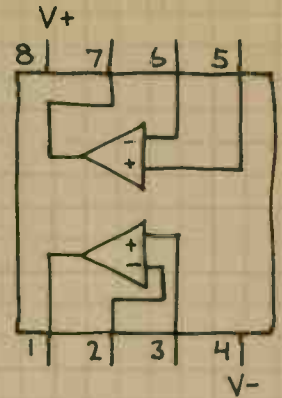
PC1, PC2 - CdS PHOTOCELLS (RADIO SHACK 276-116)

LIGHT ON PC1 DECREASES TONE FREQUENCY.
LIGHT ON PC2 INCREASES TONE FREQUENCY.

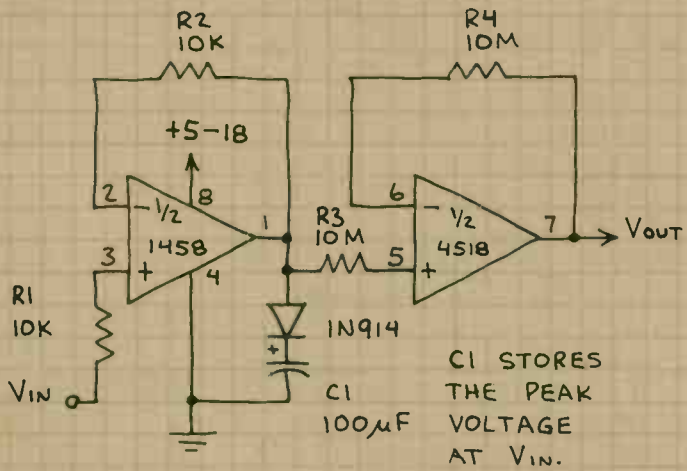
DUAL OPERATIONAL AMPLIFIER

1458

TWO 741C OP-AMPS IN A SINGLE 8-PIN MINI-DIP. TRY TO USE THIS CHIP FOR CIRCUITS THAT REQUIRE TWO OR MORE 741'S. YOU'LL SAVE TIME, SPACE AND MONEY.

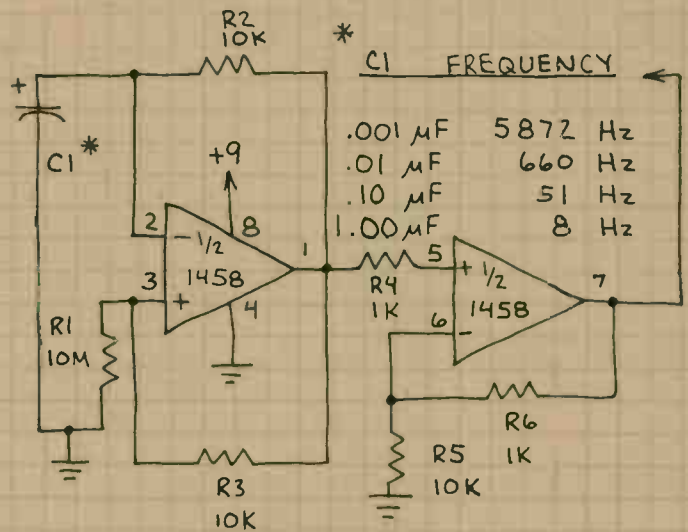


PEAK DETECTOR



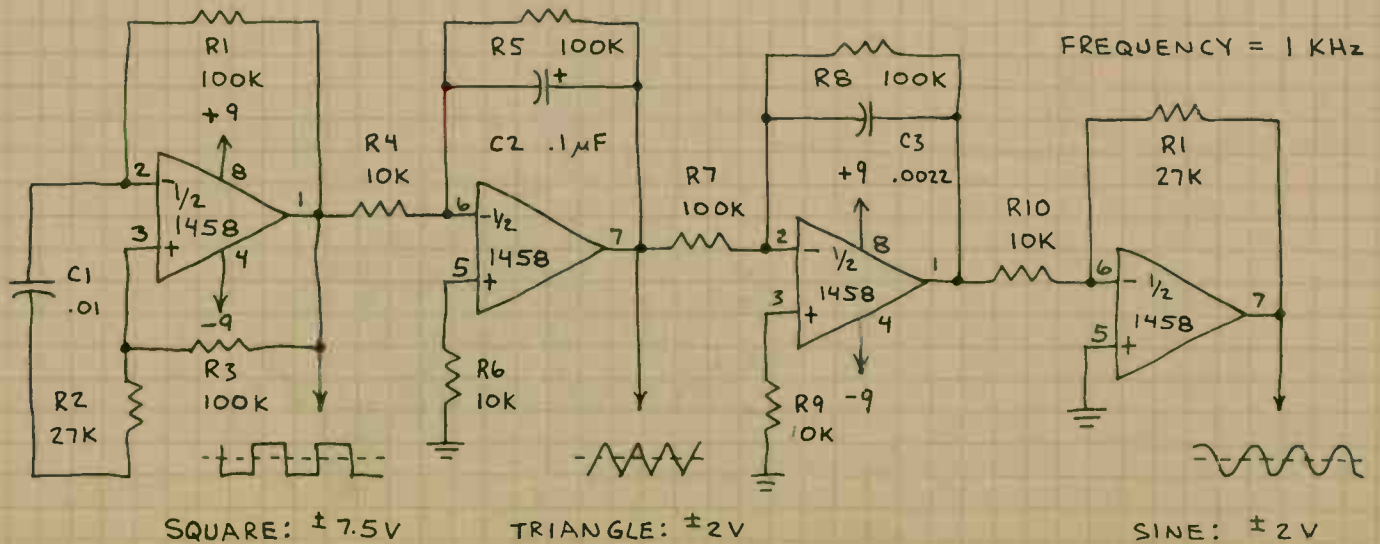
APPLICATIONS INCLUDE USE AS ANALOG "MEMORY" THAT STORES PEAK AMPLITUDE OF A FLUCTUATING VOLTAGE.

PULSE GENERATOR



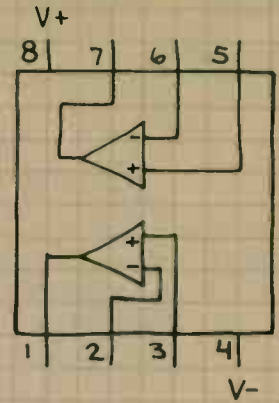
PULSES ARE DC. AMPLITUDE WHEN $C1 = 0.1 \mu F$ IS 5 VOLTS.

FUNCTION GENERATOR

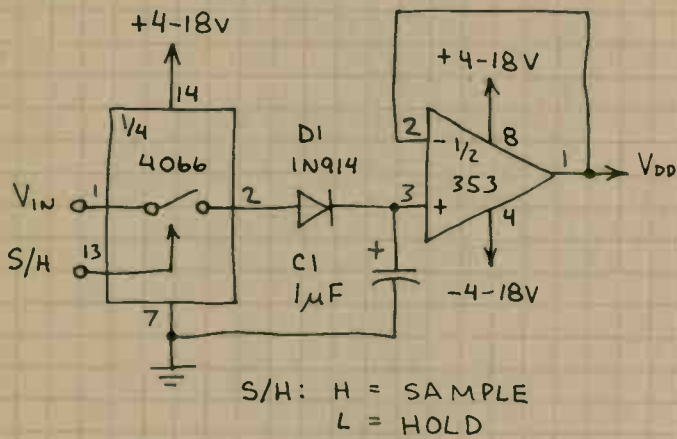


DUAL OPERATIONAL AMPLIFIER LF353N (JFET INPUT)

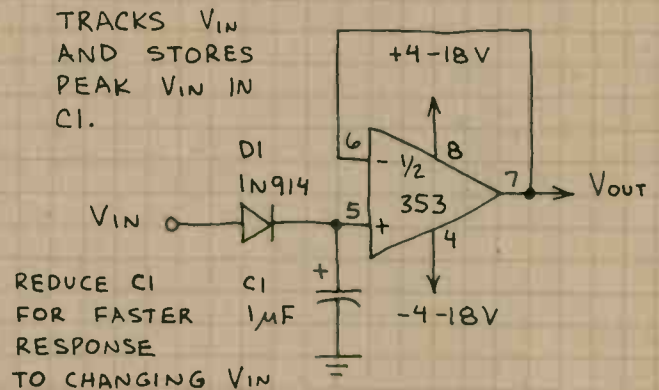
HIGH IMPEDANCE (10^{12} OHM) JUNCTION FET INPUTS. OUTPUT SHORT CIRCUIT PROTECTION. HIGH SLEW RATE ($13V/\mu\text{SEC}$), LOW NOISE OPERATION. AMPLIFIERS ARE SIMILAR TO THOSE IN THE TLO84C. NOTE THAT PIN CONNECTIONS ARE THE SAME AS 1458. THIS OP-AMP, HOWEVER, OFFERS MUCH BETTER PERFORMANCE.



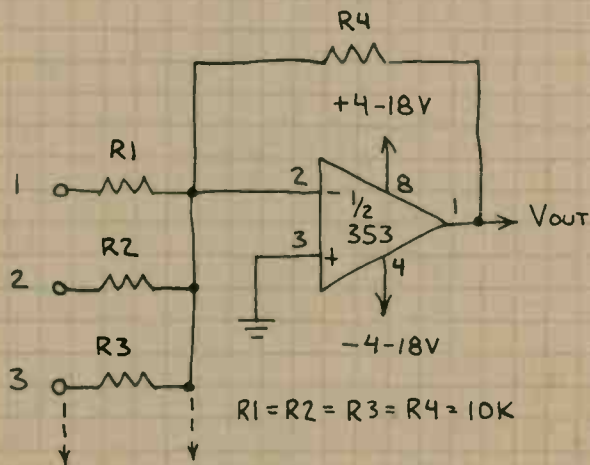
SAMPLE AND HOLD



PEAK DETECTOR

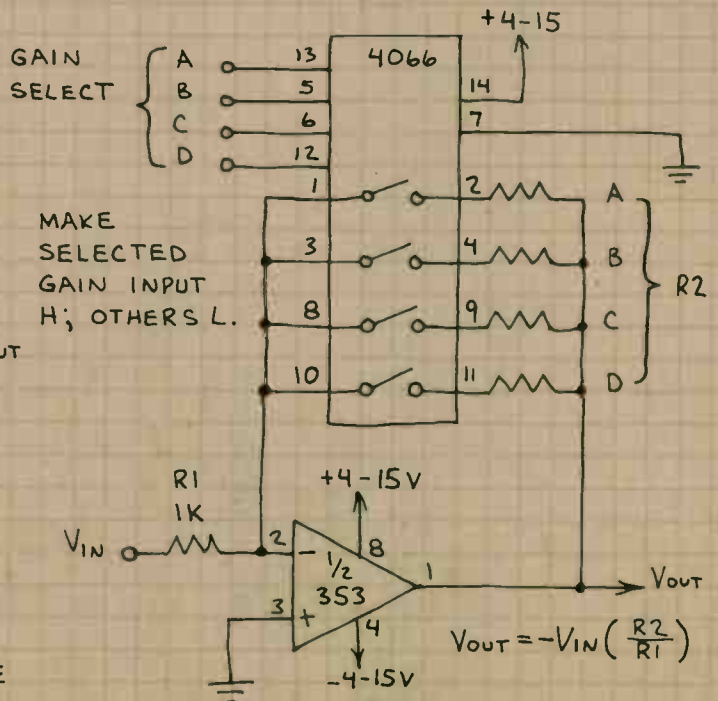


AUDIO MIXER



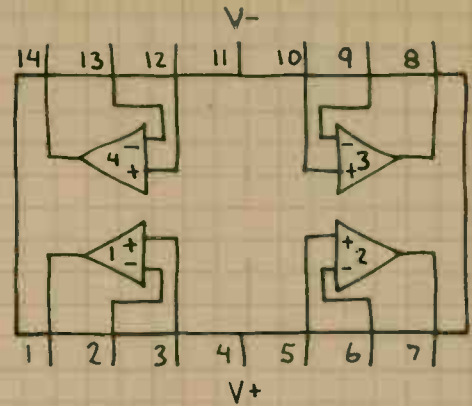
CONNECT OUTPUTS OF PREAMPLIFIERS TO INPUTS 1-3. OK TO ADD MORE CHANNELS. WORKS WELL WITH TLO84 MICROPHONE PREAMPLIFIERS.

PROGRAMMABLE GAIN OP-AMP

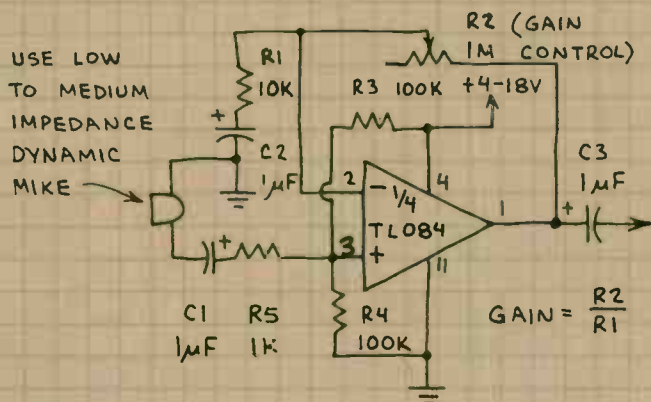


QUAD OPERATIONAL AMPLIFIER TLO84C (JFET INPUT)

HIGH IMPEDANCE (10^{12} OHMS) JUNCTION FET INPUTS. OUTPUT SHORT CIRCUIT PROTECTION. HIGH SLEW RATE (12 V/ μ SEC) PLUS LOW NOISE OPERATION. PERFORMANCE SIMILAR TO LF353N. NOTE THAT PIN CONNECTIONS ARE SAME AS LM324.



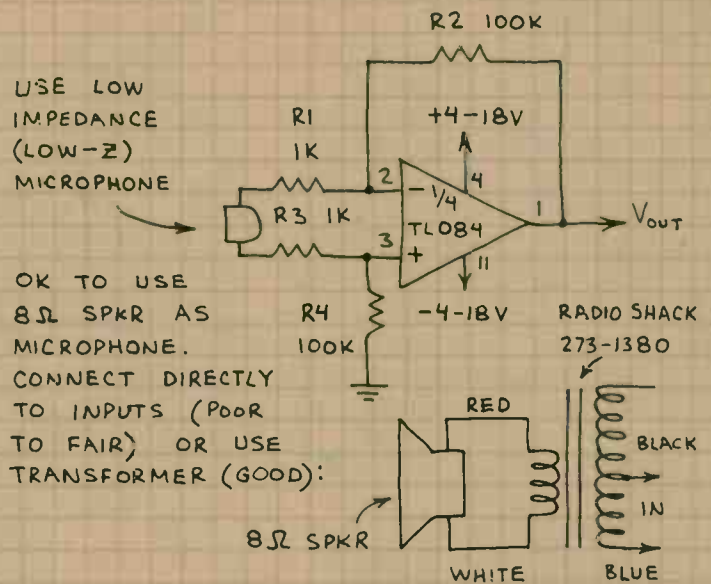
MICROPHONE PREAMPLIFIER



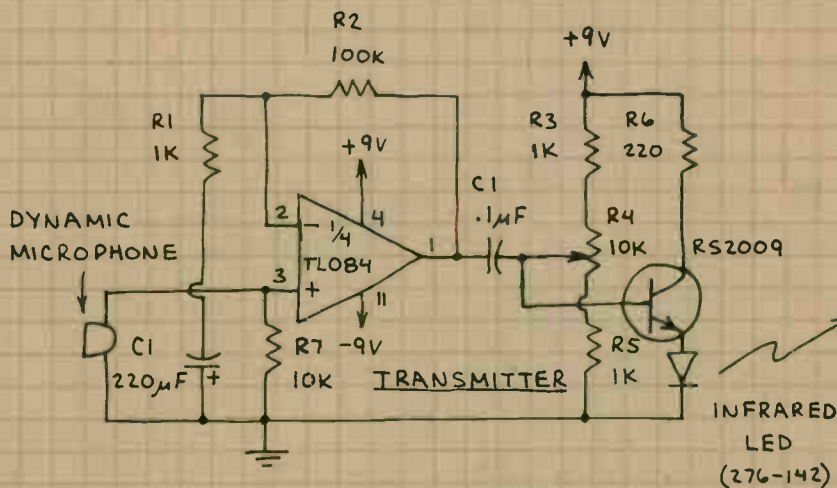
USE LOW TO MEDIUM IMPEDANCE DYNAMIC MIKE

NOTE SINGLE POLARITY POWER SUPPLY (THANKS TO R3 AND R4) AND AC COUPLING.

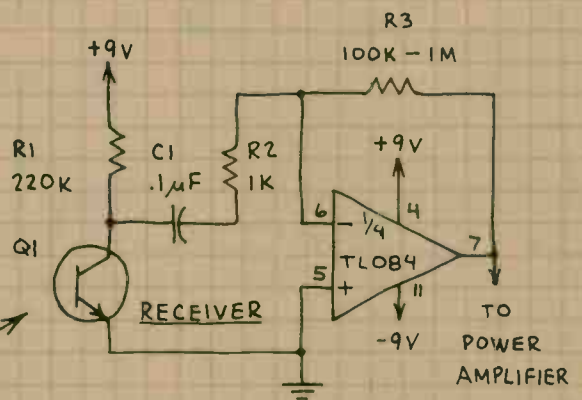
LOW-Z PREAMPLIFIER



INFRARED VOICE COMMUNICATOR



POINT THE LED AT Q1 AND ADJUST R4 UNTIL BEST VOICE QUALITY IS OBTAINED. (R4 APPLIES PREBIAS TO LED.) R6 LIMITS MAXIMUM LED CURRENT TO A SAFE 40 mA.

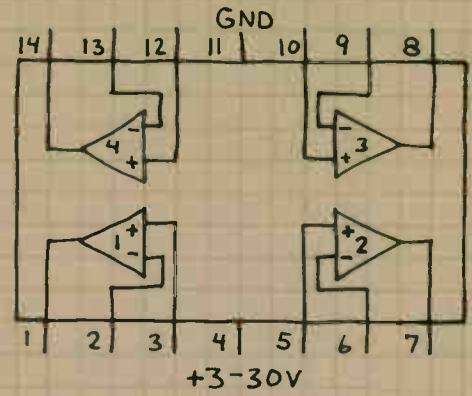


USE RADIO SHACK 276-130 PHOTOTRANSISTOR FOR Q1. MAXIMUM RANGE: HUNDREDS OF FEET AT NIGHT WITH LENSES AT Q1 AND LED. POWER AMP: SEE LM386.

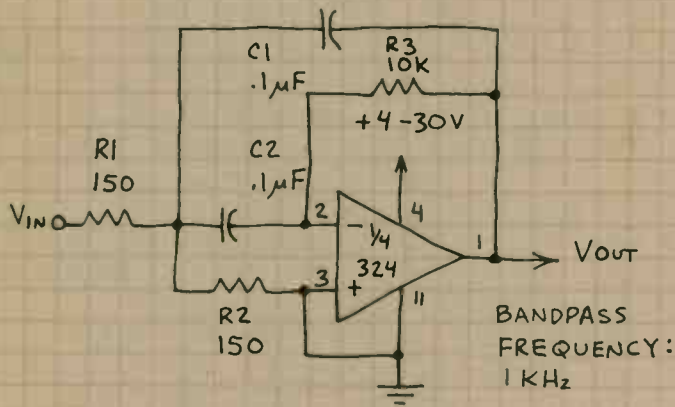
QUAD OPERATIONAL AMPLIFIER

LM324N

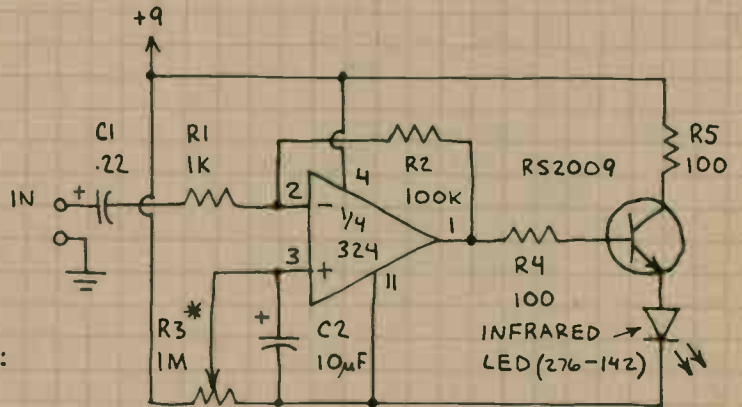
OPERATES FROM SINGLE POLARITY POWER SUPPLY. MORE GAIN (100 dB) BUT LESS BANDWIDTH (1 MHz WHEN GAIN IS 1) THAN THE LM3900 QUAD OP-AMP. NOTE UNUSUAL LOCATION OF POWER SUPPLY PINS. CAUTION: SHORTING THE OUTPUTS DIRECTLY TO V+ OR GND OR REVERSING THE POWER SUPPLY MAY DAMAGE THIS CHIP.



BANDPASS FILTER



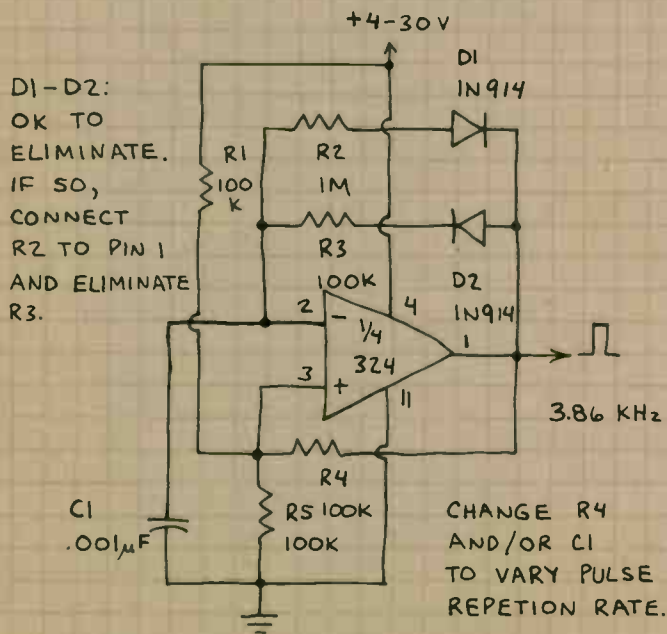
INFRARED TRANSMITTER



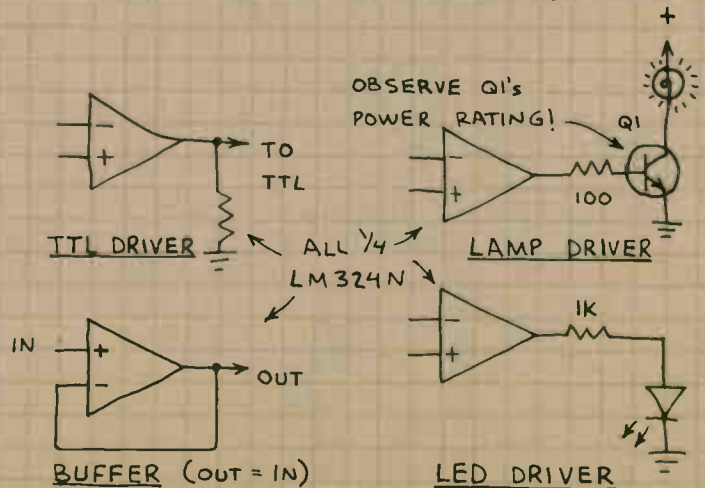
* CAREFULLY ADJUST R3 FOR BEST VOICE QUALITY. FOR MORE POWER REDUCE R5 TO 50Ω... BUT DO NOT ALLOW MORE THAN PLUS OP-AMP. 30 mA THROUGH LED!

USE DYNAMIC MICROPHONE AT INPUT. RECEIVE SIGNAL WITH PHOTOTRANSISTOR

PULSE GENERATOR

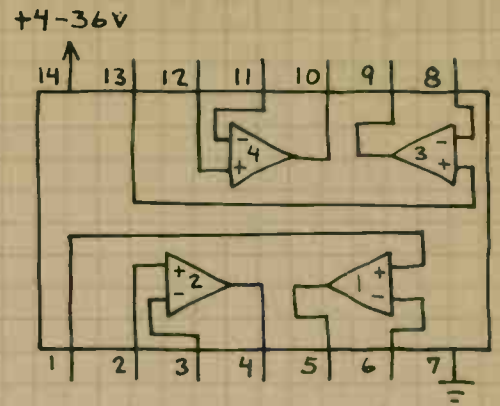


INTERFACE CIRCUITS

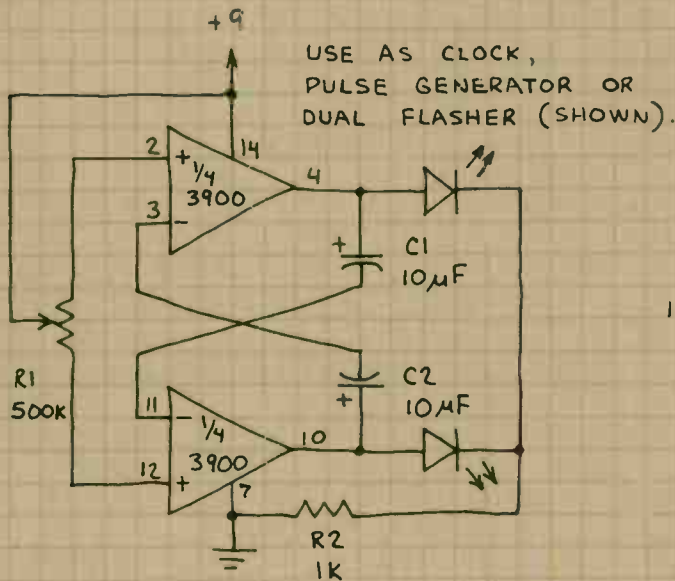


QUAD OPERATIONAL AMPLIFIER LM3900N

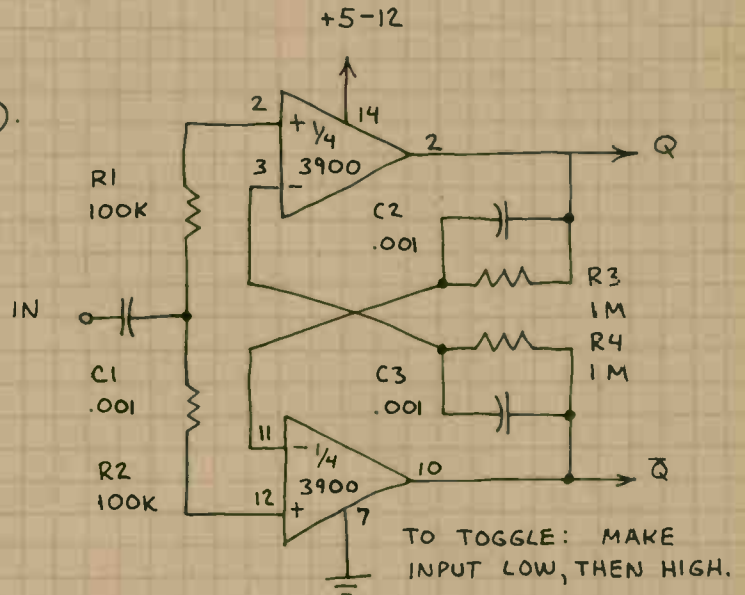
OPERATES FROM SINGLE POLARITY POWER SUPPLY. LESS GAIN (70 dB) BUT WIDER BANDWIDTH (25 MHz AT GAIN OF 1) THAN THE LM324 QUAD OP-AMP. NOTE STANDARD POWER SUPPLY PIN LOCATIONS. CAUTION: SHORTING THE OUTPUTS DIRECTLY TO V^+ OR GROUND OR REVERSED POWER CONNECTIONS MAY DAMAGE THIS CHIP.



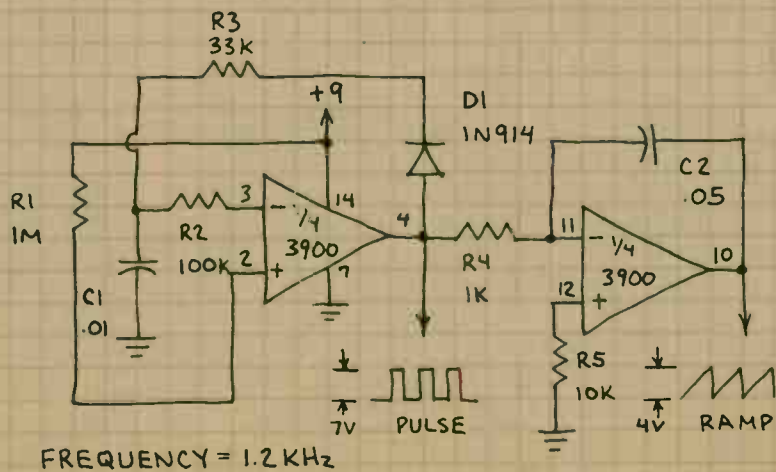
ASTABLE MULTIVIBRATOR



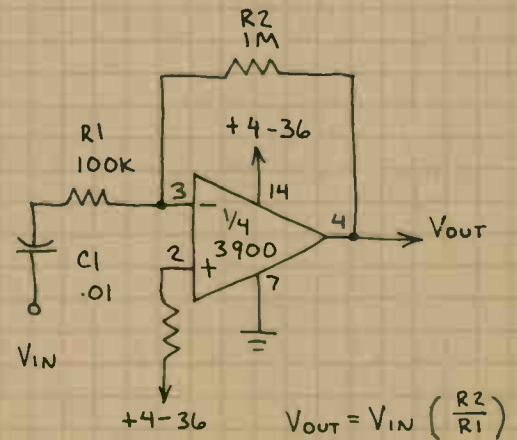
TOGGLE FLIP-FLOP



FUNCTION GENERATOR

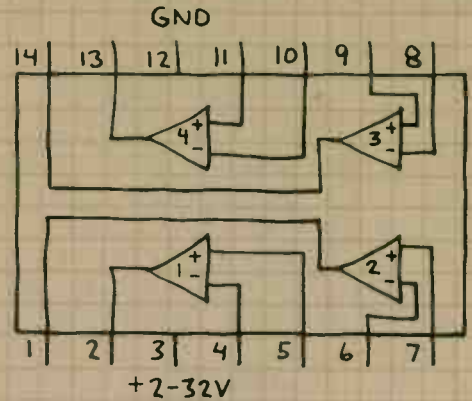


X10 AMPLIFIER

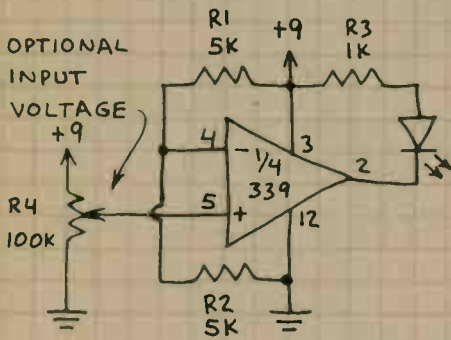


QUAD COMPARATOR LM339 (276-1712)

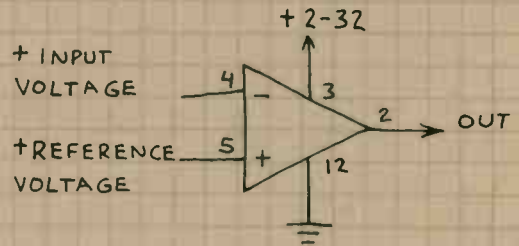
FOUR INDEPENDENT VOLTAGE COMPARATORS IN A SINGLE PACKAGE. NOTE THAT A SINGLE POLARITY POWER SUPPLY IS REQUIRED. (MOST COMPARATORS ARE DESIGNED PRIMARILY FOR DUAL SUPPLY OPERATION.) NOTE UNUSUAL LOCATION OF THE SUPPLY PINS. COMPARATORS MAY OSCILLATE IF OUTPUT LEAD IS TOO CLOSE TO INPUT LEADS. GROUND ALL PINS OF UNUSED COMPARATORS.



NON-INVERTING COMPARATOR INVERTING COMPARATOR

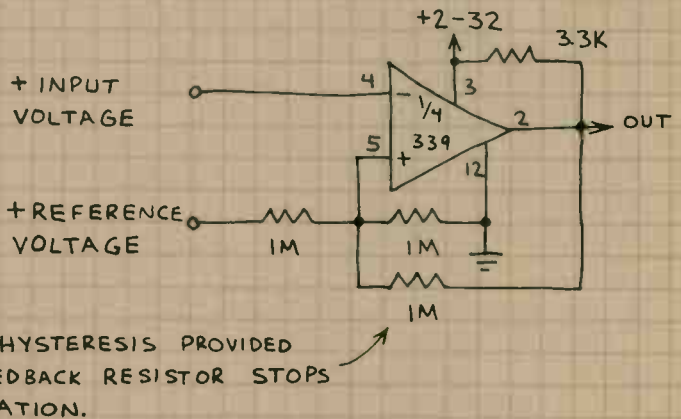


R1-R2
DETERMINE
REFERENCE
VOLTAGE
(4.5 V AS SHOWN).

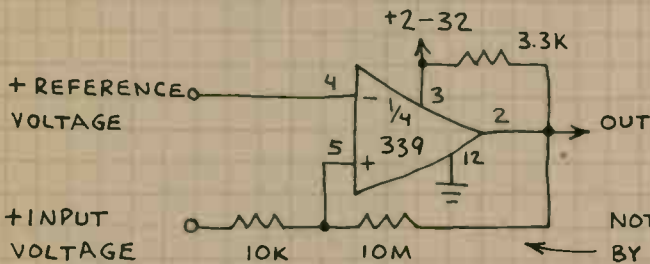


LED GLOWS WHEN INPUT VOLTAGE (PIN 5)
FALLS BELOW REFERENCE VOLTAGE (PIN 4).

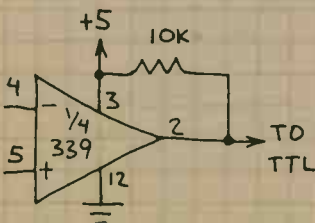
INVERTING COMPARATOR WITH HYSTERESIS



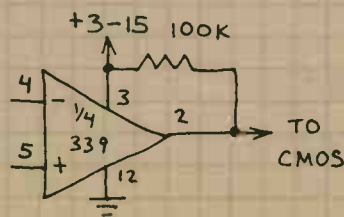
NON-INVERTING COMPARATOR WITH HYSTERESIS



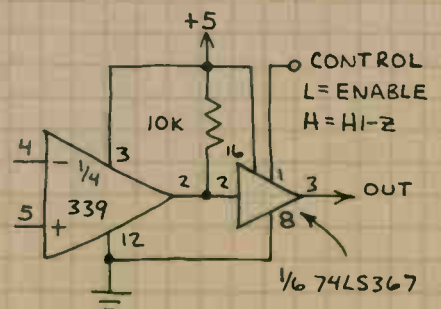
TTL DRIVER



CMOS DRIVER



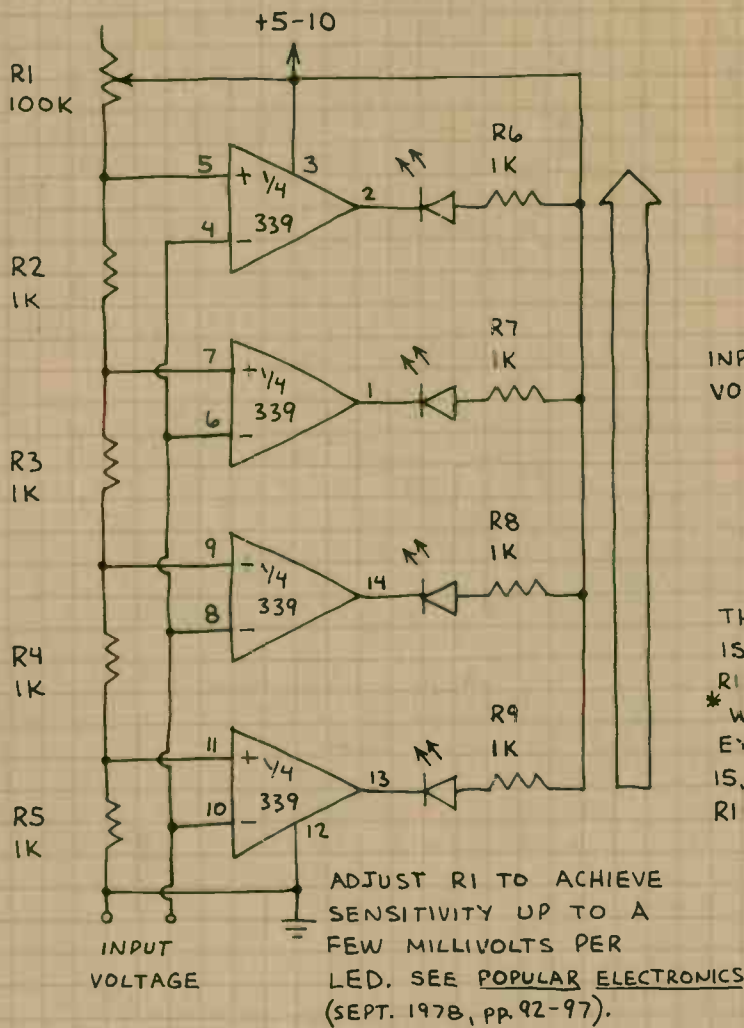
3-STATE OUTPUT



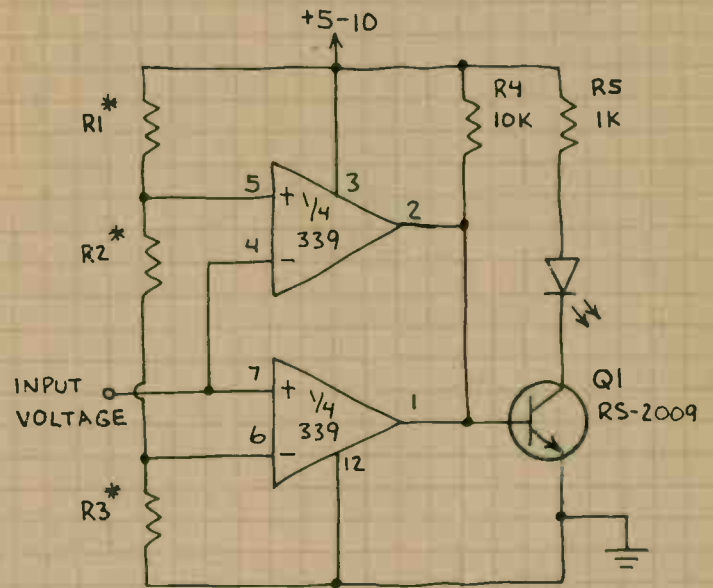
QUAD COMPARATOR (CONTINUED)

LM339

LED BARGRAPH READOUT

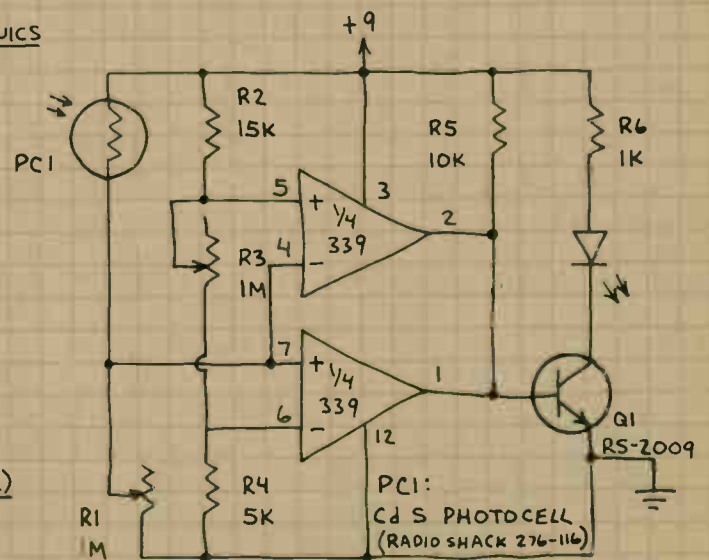


WINDOW COMPARATOR



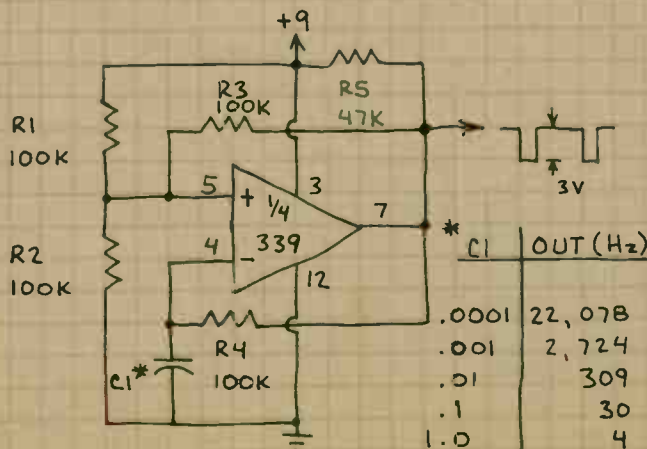
THE LED GLOWS WHEN THE INPUT VOLTAGE IS WITHIN THE WINDOW DETERMINED BY R1-R3. THE WINDOW IS 4-8 MILLIVOLTS WIDE * WHEN $R = 500\Omega$, $R2 = 1200\Omega$ AND $R3 = 1M$. IT EXTENDS FROM 1.5-4.2 VOLTS WHEN $R1$ AND $R3 = 15,000\Omega$ AND $R2 = 25,000\Omega$. USE POTS FOR R1-R3 FOR A FULLY ADJUSTABLE WINDOW.

PROGRAMMABLE LIGHT METER



ADJUST R1 AND R3 SO LED GLOWS WHEN LIGHT AT PCI IS ABOVE OR BELOW ANY DESIRED LEVEL.

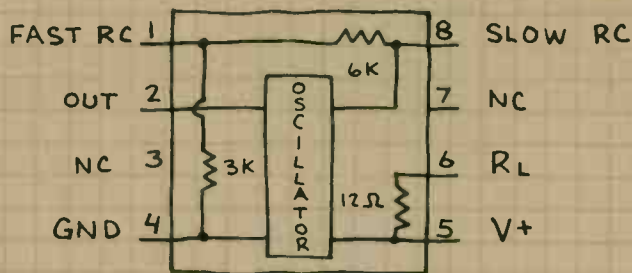
SQUAREWAVE OSCILLATOR



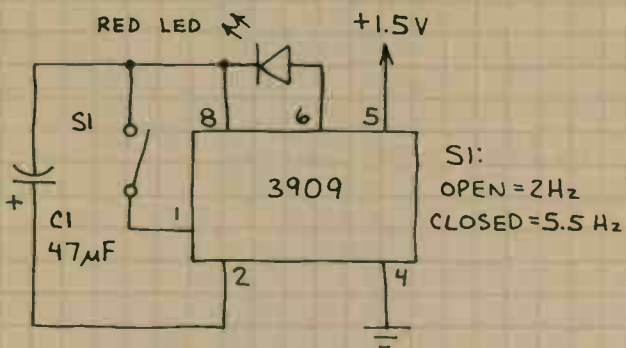
LED FLASHER / OSCILLATOR

3909

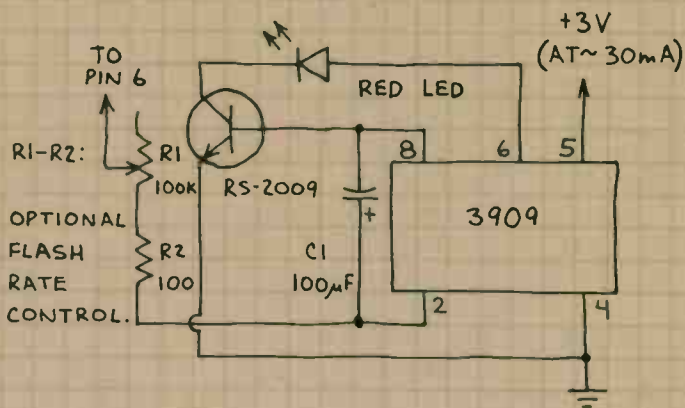
EASIEST TO USE IC IN THIS NOTEBOOK. FLASHES LEDs OR CAN BE USED AS TONE SOURCE. WILL DRIVE SPEAKER DIRECTLY. WILL FLASH A RED LED WHEN $V+$ IS ONLY 1.3 VOLTS.



LED FLASHER



POWER FLASHER



INFRARED TRANSMITTERS

TRANSMITS

STEADY

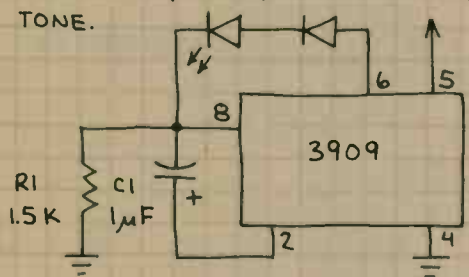
1KHz
TONE.

IR LED

(276-142)

IN914

+1.5V



IR LED

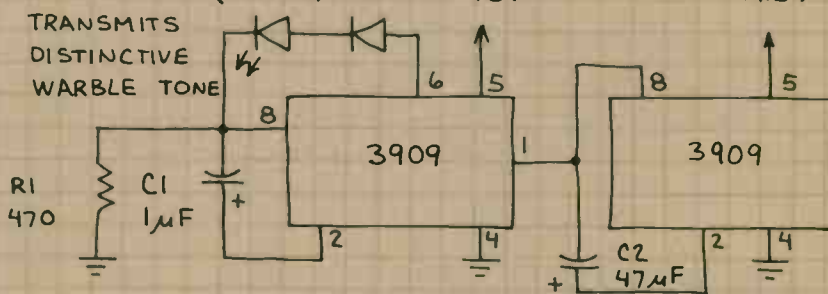
(276-142)

IN914

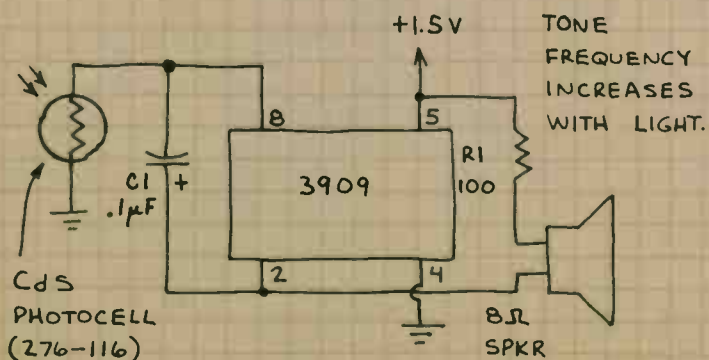
+1.5V

+1.5V

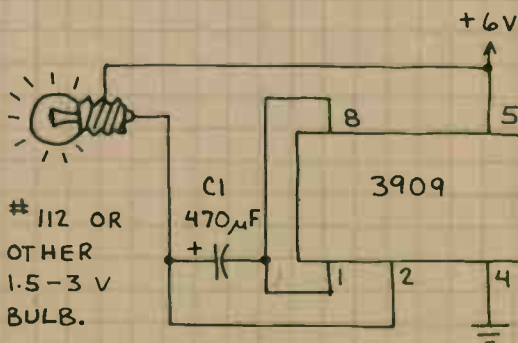
TRANSMITS
DISTINCTIVE
WARBLE TONE



LIGHT CONTROLLED TONE



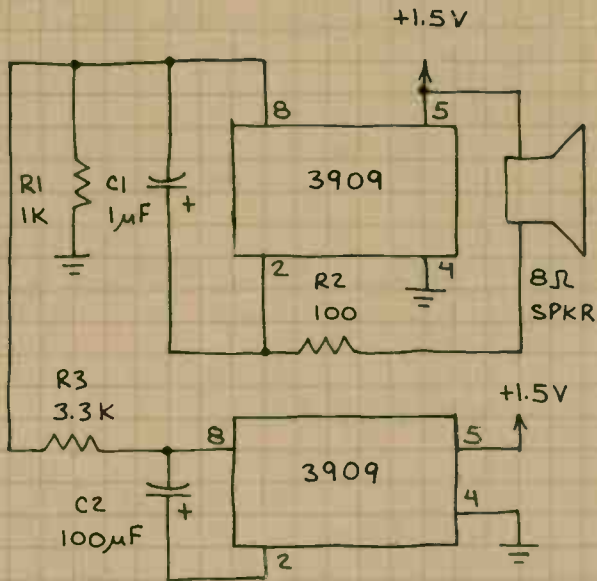
LAMP FLASHER



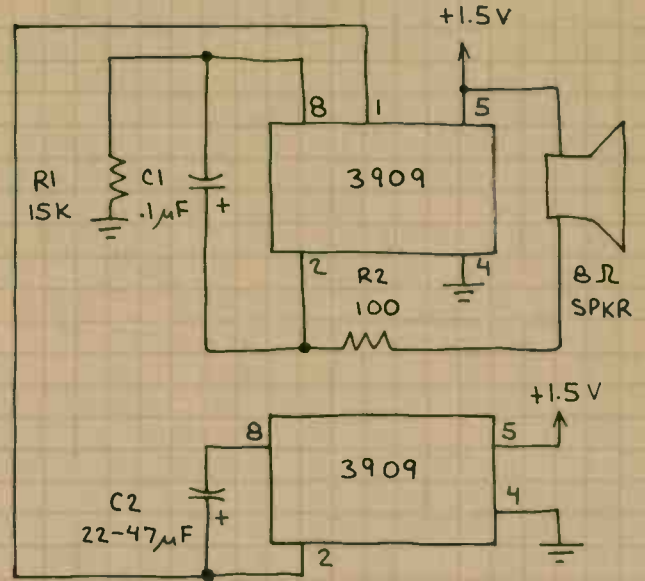
LED FLASHER / OSCILLATOR (CONTINUED)

3909

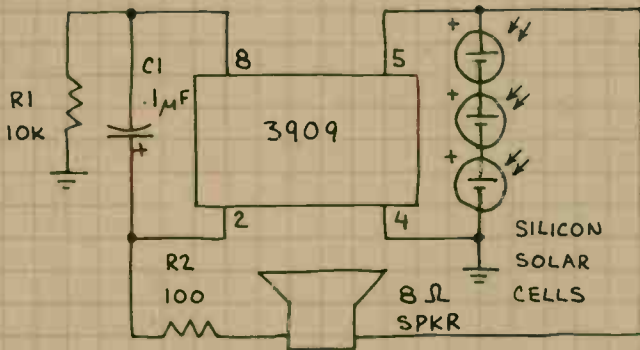
WHOOOPER



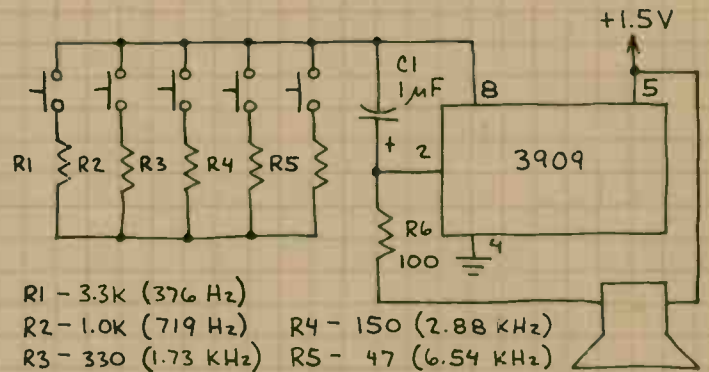
CHIRPER



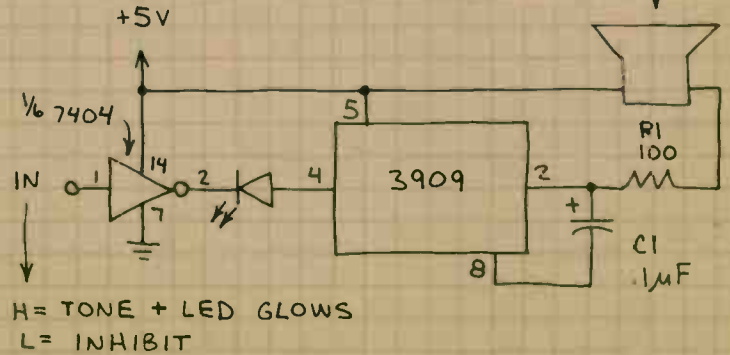
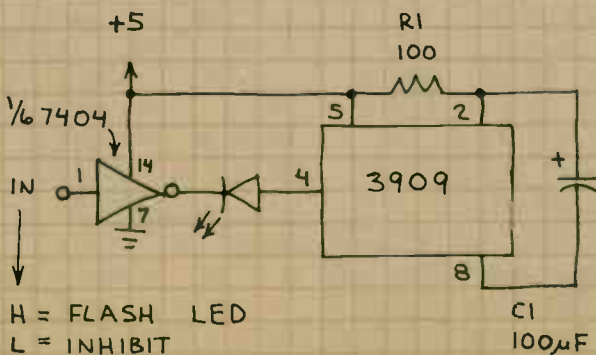
SUN POWERED OSCILLATOR



TOY ORGAN

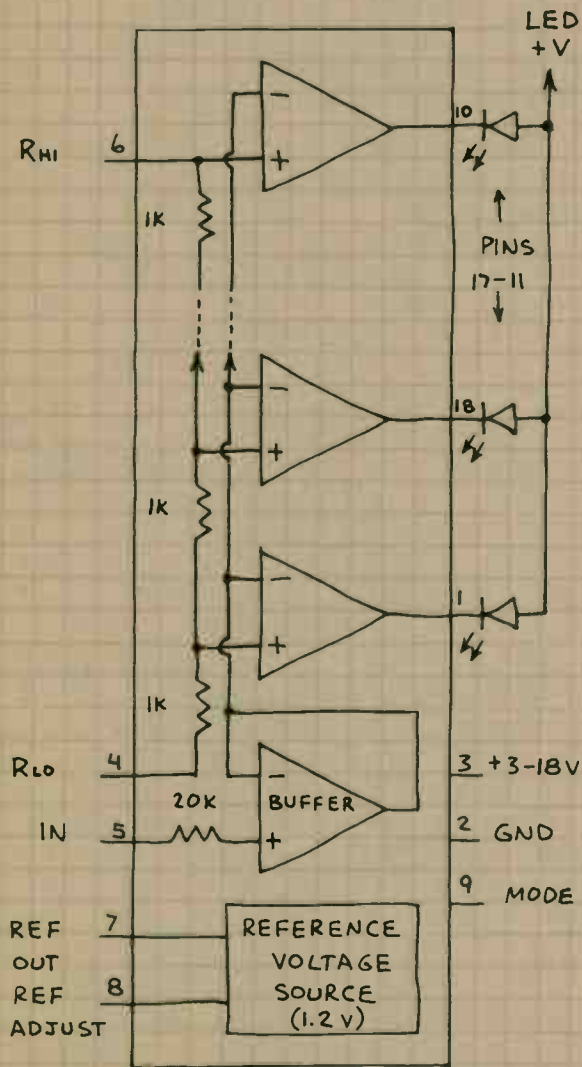


TTL CONTROLLED 3909

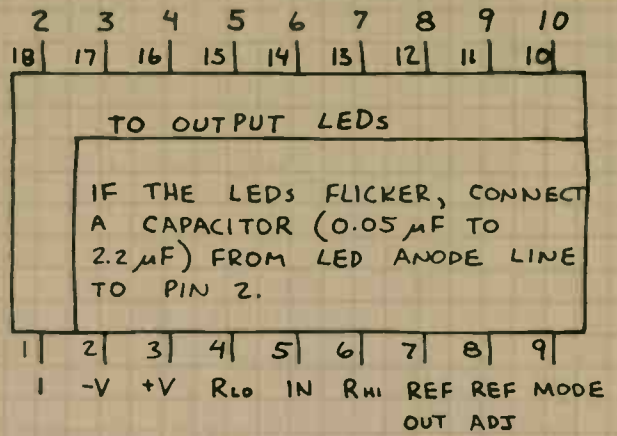


DOT/BAR DISPLAY DRIVER LM3914N

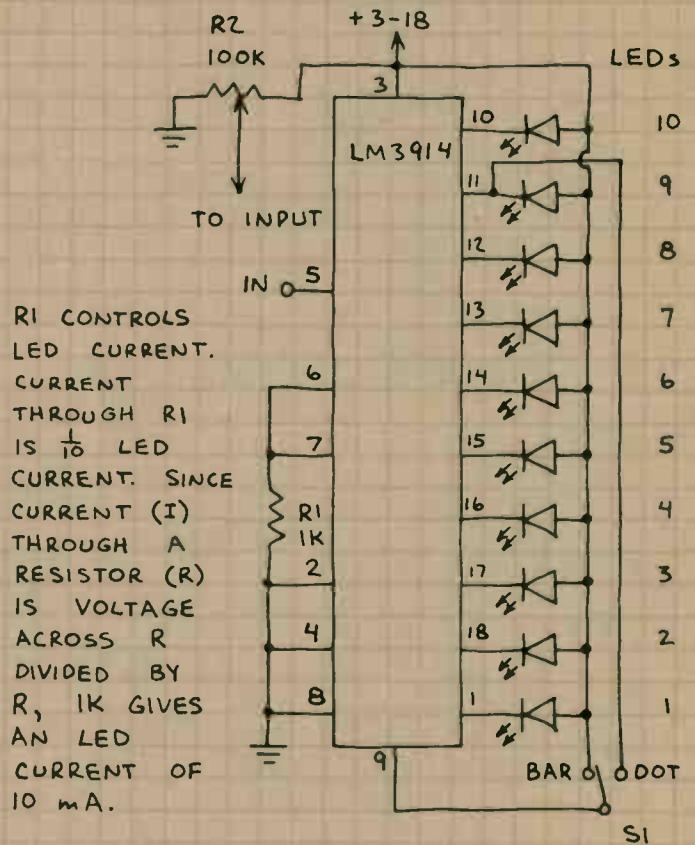
ONE OF THE MOST IMPORTANT CHIPS IN THIS NOTEBOOK. LIGHTS UP TO 10 LEDs (BAR MODE) OR 1-OF-10 LEDs (DOT MODE) IN RESPONSE TO AN INPUT VOLTAGE. CHIP CONTAINS A VOLTAGE DIVIDER AND 10 COMPARATORS THAT TURN ON IN SEQUENCE AS THE INPUT VOLTAGE RISES. HERE'S A SIMPLIFIED VERSION OF THE CIRCUIT:



R_{HI} AND R_{LO} ARE THE ENDS OF THE DIVIDER CHAIN. THE REFERENCE VOLTAGE OUTPUT (REF OUT) IS 1.2-1.3 VOLTS. CONNECT PIN 9 TO PIN 11 FOR DOT MODE OR +V FOR BAR MODE.



DOT/BAR DISPLAY



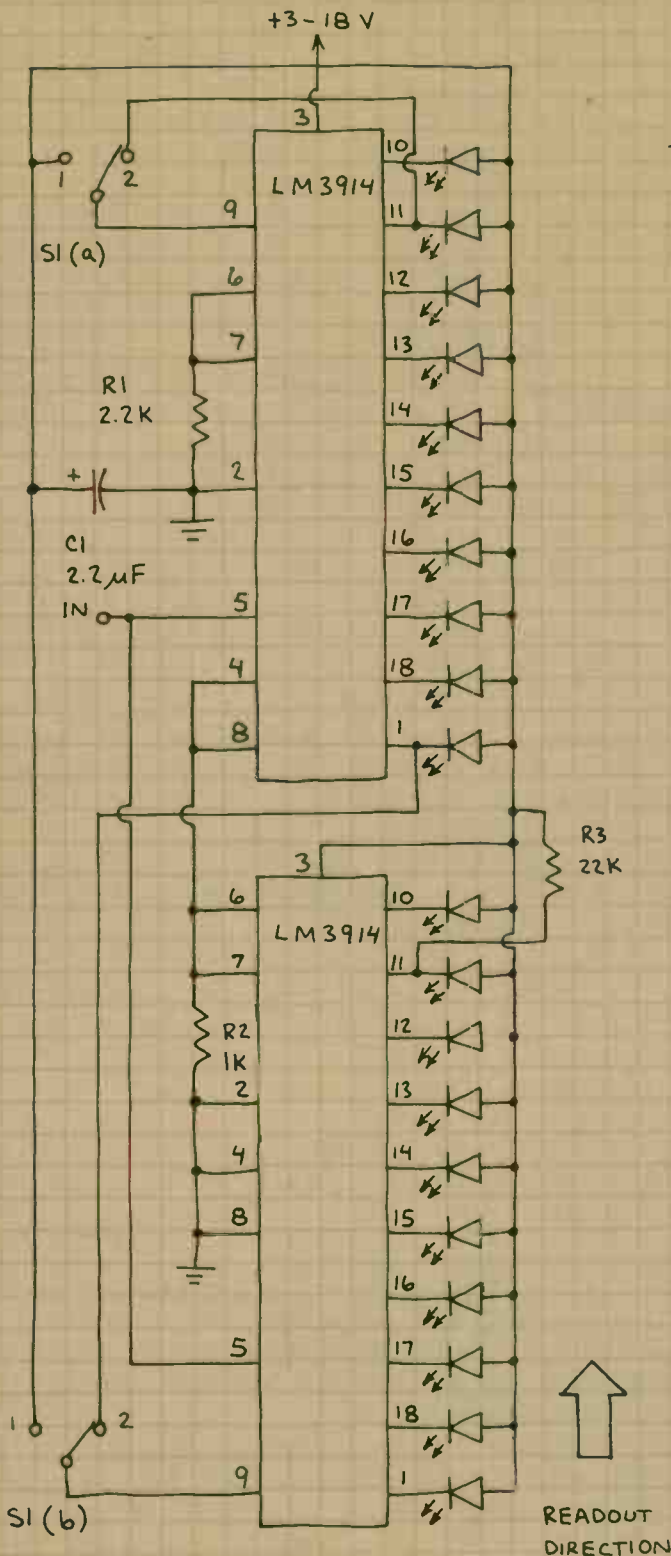
R_1 CONTROLS LED CURRENT. CURRENT THROUGH R_1 IS $\frac{1}{10}$ LED CURRENT. SINCE CURRENT (I) THROUGH A RESISTOR (R) IS VOLTAGE ACROSS R DIVIDED BY R , $1K$ GIVES AN LED CURRENT OF 10 mA.

WHEN +V = +3-18 VOLTS, THE READOUT RANGE IS 0.13-1.30 VOLTS. TO CHANGE RANGE TO 0.1-1.0 VOLT (0.1 VOLT PER LED), INSERT A $1K$ POTENTIOMETER BETWEEN PINS 6 AND 7. CONNECT VOLTMETER ACROSS PINS 5 AND 8 AND ADJUST R_2 FOR 1 VOLT AT PIN 5. THEN ADJUST $1K$ POT UNTIL LED 10 GLOWS. REPEAT THIS PROCEDURE FOR 0.1 VOLT AT PIN 5 AND LED 1. OK TO REPLACE THE $1K$ POT WITH A FIXED RESISTOR OF THE PROPER VALUE.

DOT/BAR DISPLAY DRIVER (CONTINUED)

LM3914N

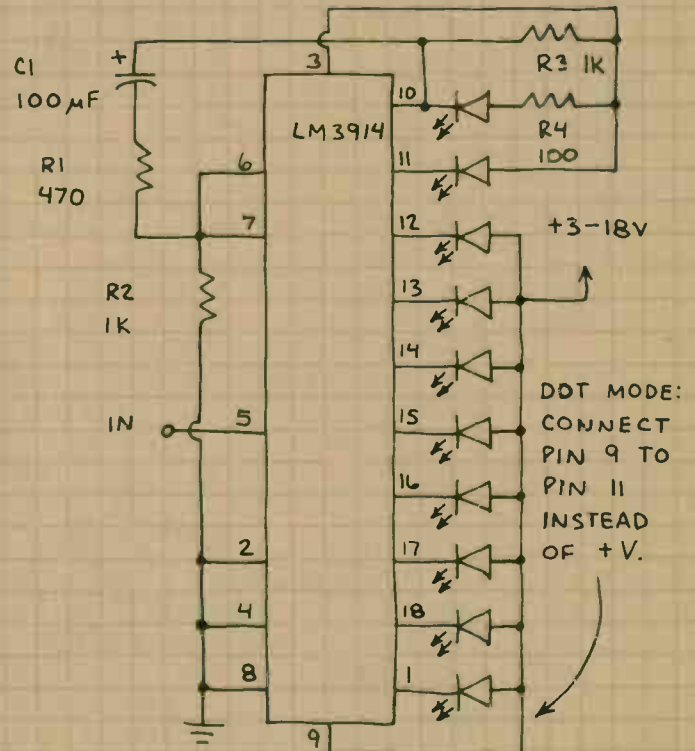
20-ELEMENT READOUT



THIS CIRCUIT SHOWS HOW TO CASCADE 2 OR MORE LM3914'S. WHEN $+V = 5$ VOLTS, THE READOUT RANGE IS 0.14 V TO 2.7 V. HIGHEST ORDER LED STAYS ON DURING OVERRANGE. AVOID SUBSTITUTIONS FOR R_1 , R_2 AND R_3 .

SI IS THE MODE SWITCH. USE A DPDT TOGGLE. POSITION 1 SELECTS BAR AND POSITION 2 SELECTS DOT. OMIT SI IF ONLY ONE MODE IS REQUIRED. SIMPLY WIRE IN THE CORRECT CONNECTIONS.

FLASHING BAR READOUT



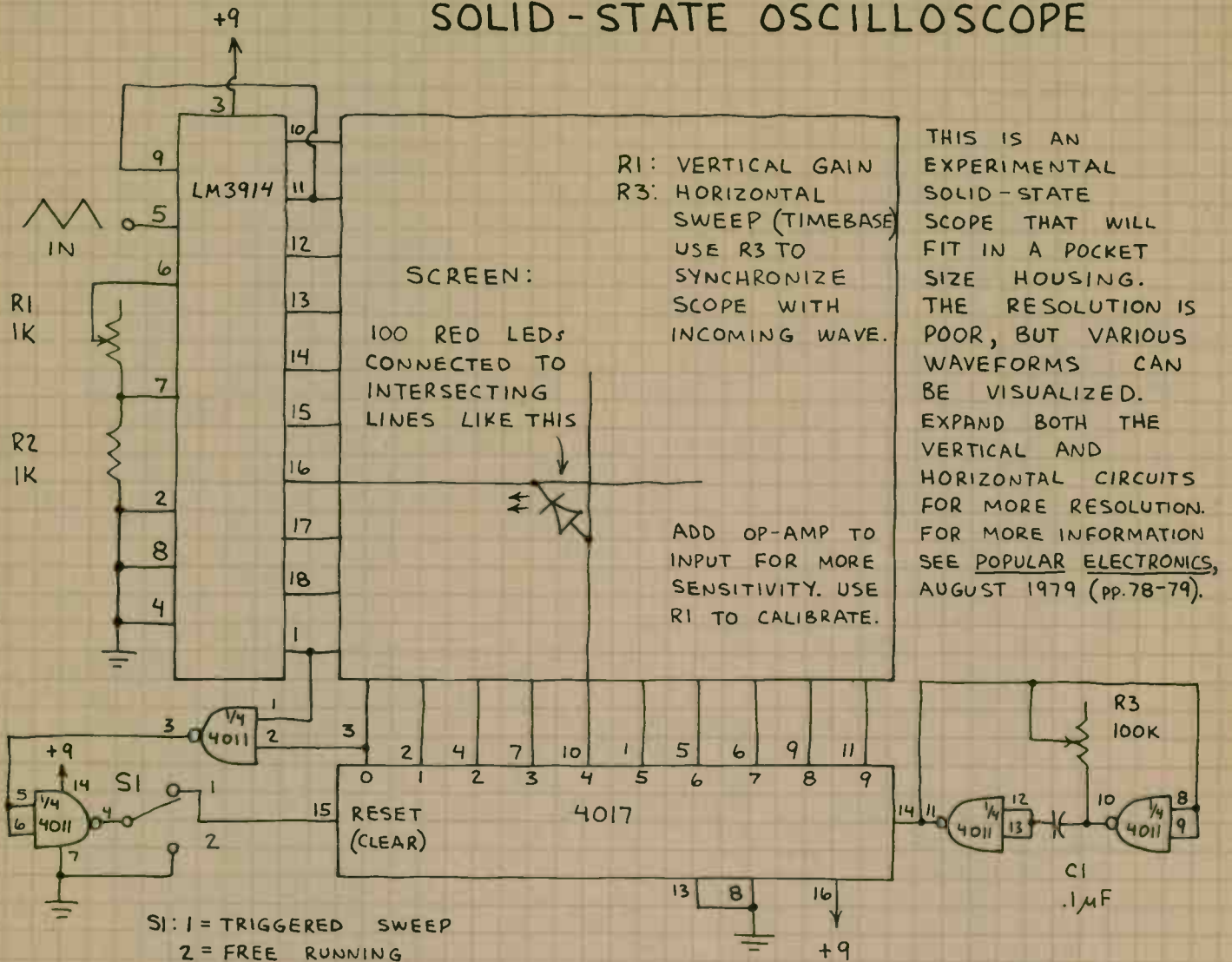
THE CIRCUITS ON THIS PAGE ARE ADAPTED FROM NATIONAL SEMICONDUCTOR'S LM3914 LITERATURE. BOTH WORK WELL.

WHEN ALL 10 LEDs ARE ON THE DISPLAY FLASHES. OTHERWISE THE LEDs DO NOT FLASH. INCREASE C_1 TO SLOW FLASH RATE.

DOT/BAR DISPLAY DRIVER (CONTINUED)

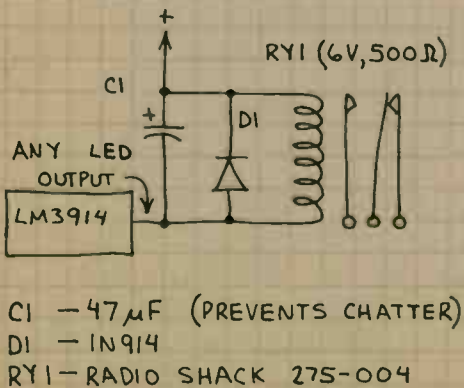
LM3914N

SOLID-STATE OSCILLOSCOPE

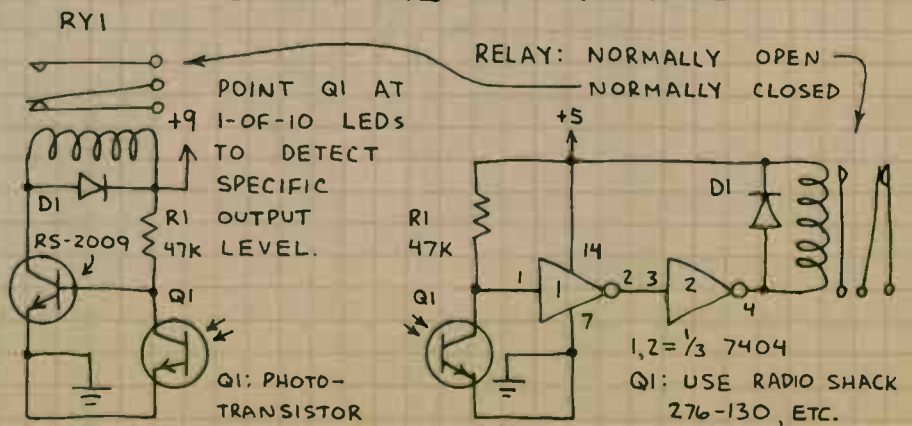


USING THE LM3914 AS A CONTROLLER:

RELAY



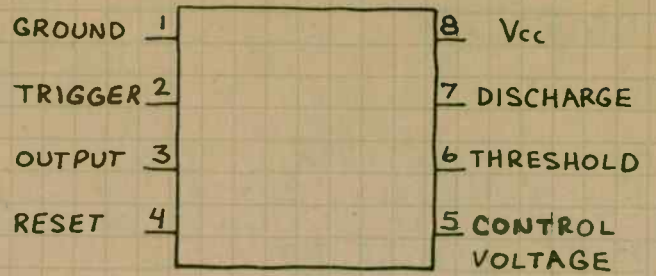
OPTICAL COUPLING



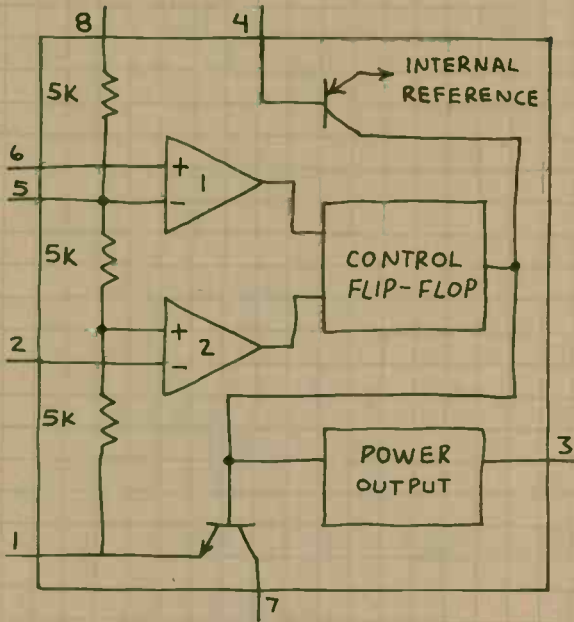
TIMER

555

THE FIRST AND STILL THE MOST POPULAR IC TIMER CHIP. OPERATES AS A ONE-SHOT TIMER OR AN ASTABLE MULTIVIBRATOR. THE 556 IS TWO 555 CIRCUITS ON ONE CHIP.

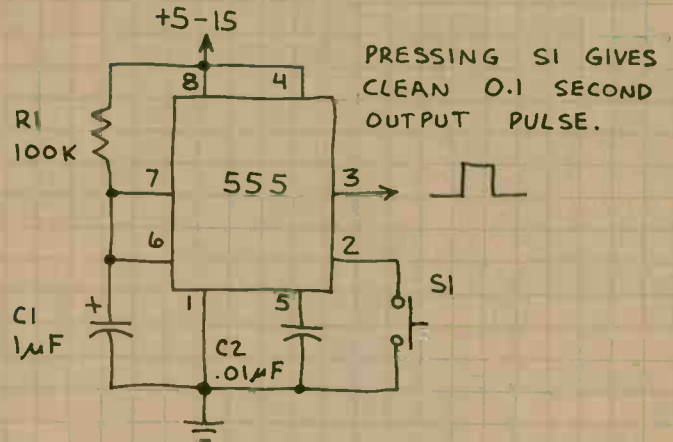


555 EQUIVALENT CIRCUIT

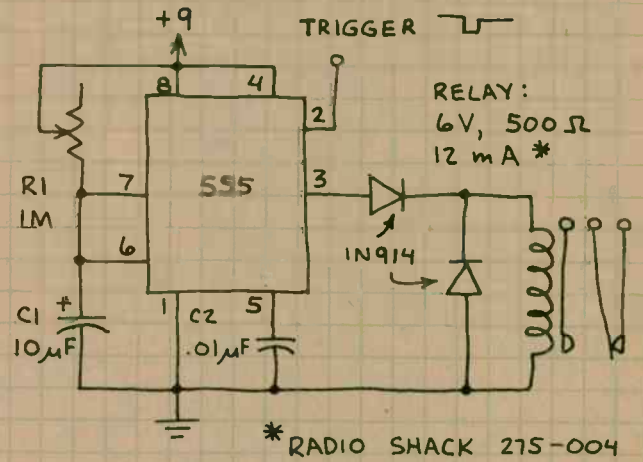


1 AND 2 ARE COMPARATORS. CIRCUIT CAN BE MADE FROM INDIVIDUAL PARTS AS SHOWN... BUT 555 IS MUCH SIMPLER.

BOUNCELESS SWITCH

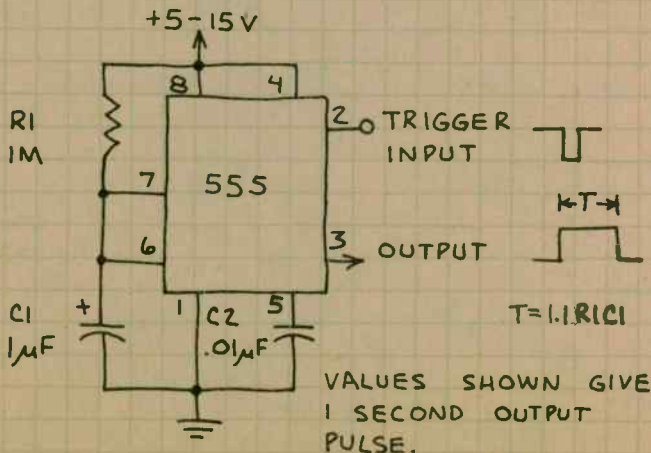


TIMER PLUS RELAY



VALUES OF R1 AND C1 SHOWN WILL PULL RELAY IN FOR UP TO ABOUT 11 SECONDS. USE POINTER KNOB AND PAPER SCALE TO HELP CALIBRATE CIRCUIT. USES INCLUDE DARKROOM TIMING. CIRCUIT CAN BE TRIGGERED BY A NEGATIVE PULSE OR WITH A PUSHBUTTON SWITCH ACROSS PINS 1 AND 2.

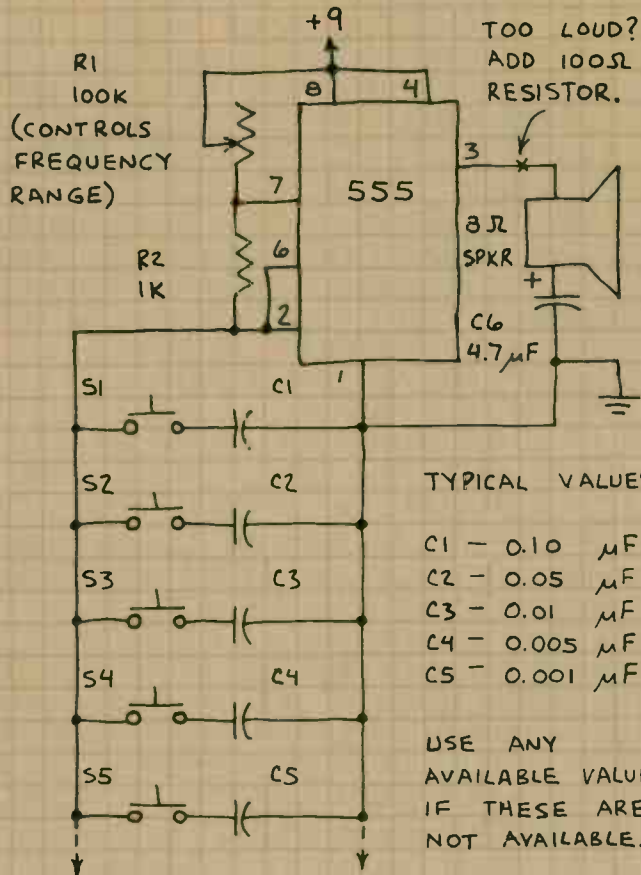
ONE-SHOT TIMER



TIMER (CONTINUED)

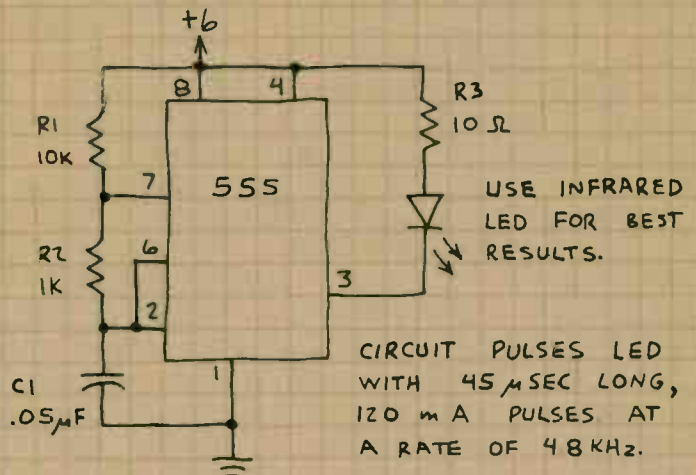
555

TOY ORGAN

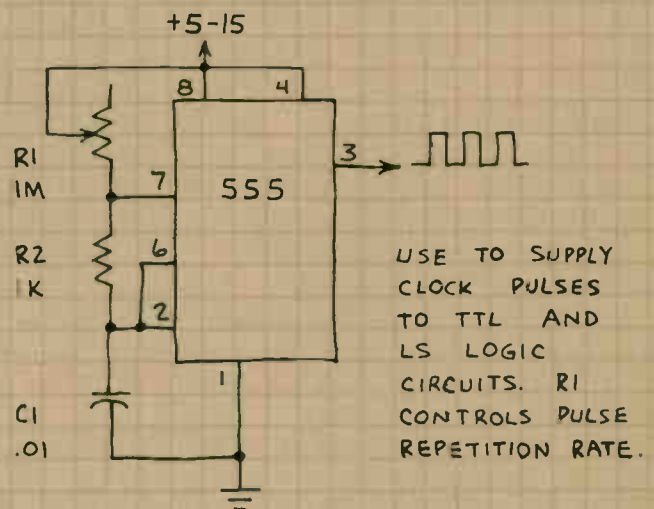


ADD ADDITIONAL
STAGES IF DESIRED.
SWITCHES ARE NORMALLY
OPEN PUSHBUTTONS.

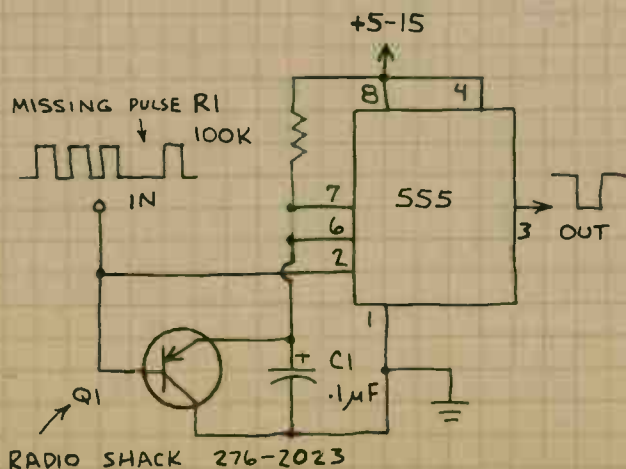
LED TRANSMITTER



PULSE GENERATOR



MISSING PULSE DETECTOR

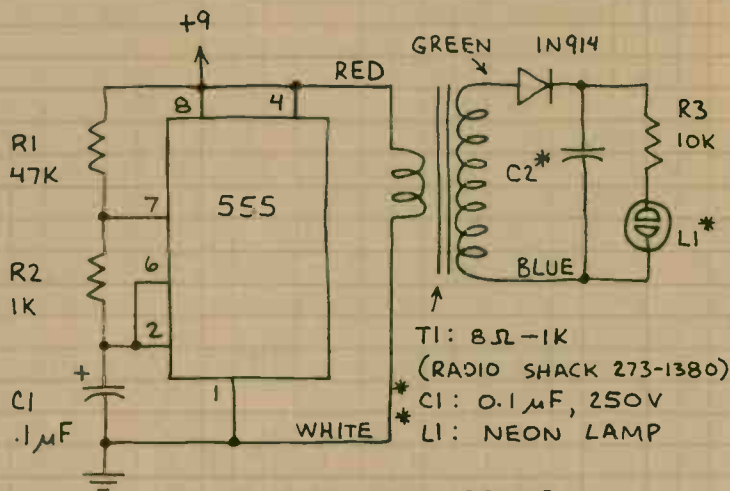


THIS CIRCUIT IS A ONE-SHOT THAT IS CONTINUALLY RETRIGGERED BY INCOMING PULSES. A MISSING OR DELAYED PULSE THAT PREVENTS RETRIGGERING BEFORE A TIMING CYCLE IS COMPLETE CAUSES PIN 3 TO GO LOW UNTIL A NEW INPUT PULSE ARRIVES. R1 AND C1 CONTROL RESPONSE TIME. USE IN SECURITY ALARMS, CONTINUITY TESTERS, ETC.

TIMER (CONTINUED)

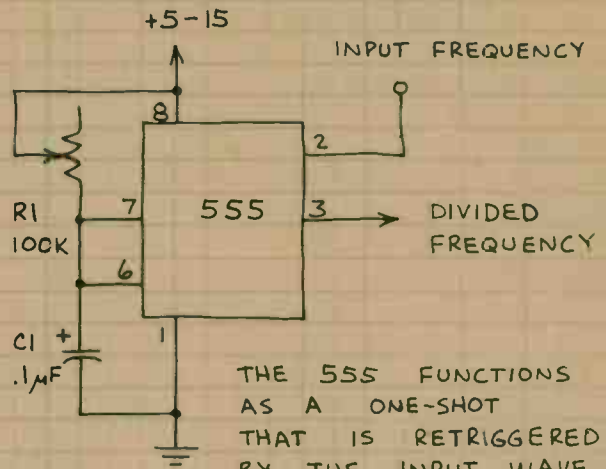
555

NEON LAMP POWER SOURCE



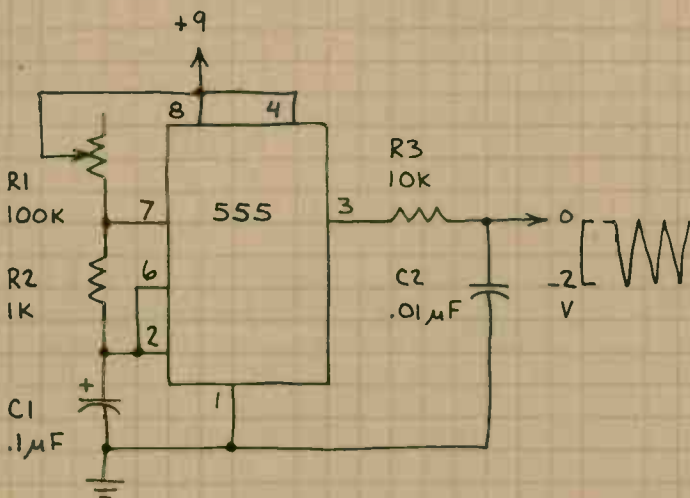
WORKS BEST WITH BETTER QUALITY NEON LAMPS. REDUCE R1 SLIGHTLY FOR MORE OUTPUT VOLTAGE.

FREQUENCY DIVIDER



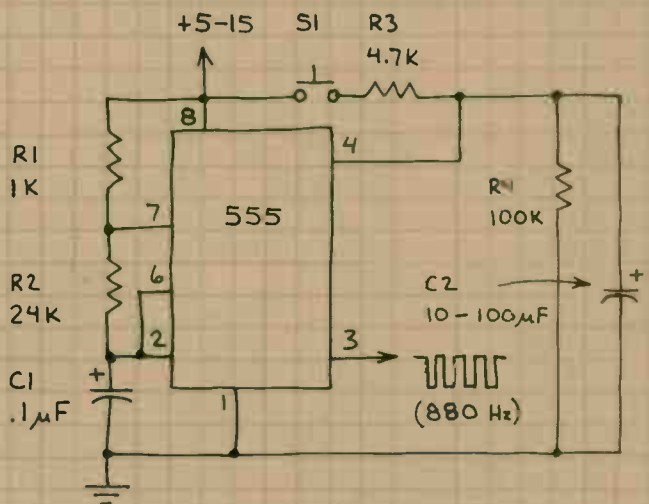
THE 555 FUNCTIONS AS A ONE-SHOT THAT IS RETRIGGERED BY THE INPUT WAVE. WAVES ARRIVING DURING THE TIMING CYCLE ARE IGNORED.

TRIANGLE WAVE GENERATOR



ADJUST R1 TO PROVIDE UP TO 10 KHz. OUTPUT FREQUENCY THIS HIGH PRODUCES CLOSELY SPACED TRIANGLE WAVES. THE WAVES ARE SEPARATED AT SLOWER FREQUENCIES (V V V).

ONE-SHOT TONE BURST



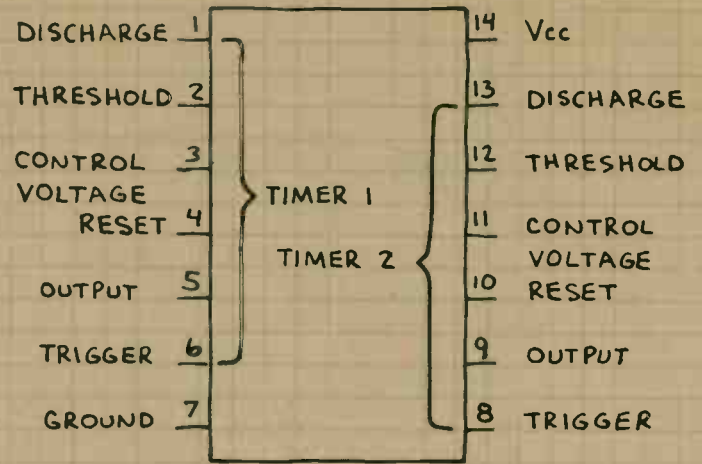
PRESS S1 AND STEADY OUTPUT FREQUENCY APPEARS AT PIN 3. RELEASE S1 AND OUTPUT FREQUENCY CONTINUES UNTIL C2 IS DISCHARGED BY R4. INCREASE C2 (OR R4) TO INCREASE LENGTH OF THE BURST. CHANGE FREQUENCY OF TONE BURST VIA R2 OR C1.

DUAL TIMER

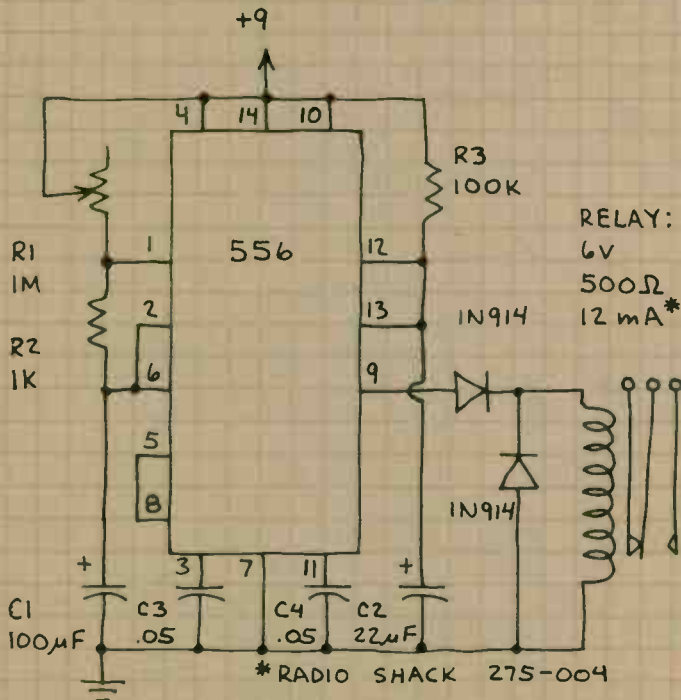
556

CONTAINS TWO INDEPENDENT TIMERS ON A SINGLE CHIP. BOTH TIMERS ARE IDENTICAL TO THE 555. ALL THE APPLICATION CIRCUITS CAN ALSO BE BUILT WITH TWO 555'S. THIS PIN CROSS REFERENCE WILL SIMPLIFY SUBSTITUTING TWO 555'S FOR A 556 OR HALF A 556 FOR A 555:

FUNCTION	555	556(1)	556(2)
GROUND	1	7	7
TRIGGER	2	6	8
OUTPUT	3	5	9
RESET	4	4	10
CONTROL V	5	3	11
THRESHOLD	6	2	12
DISCHARGE	7	1	13
Vcc	8	14	14

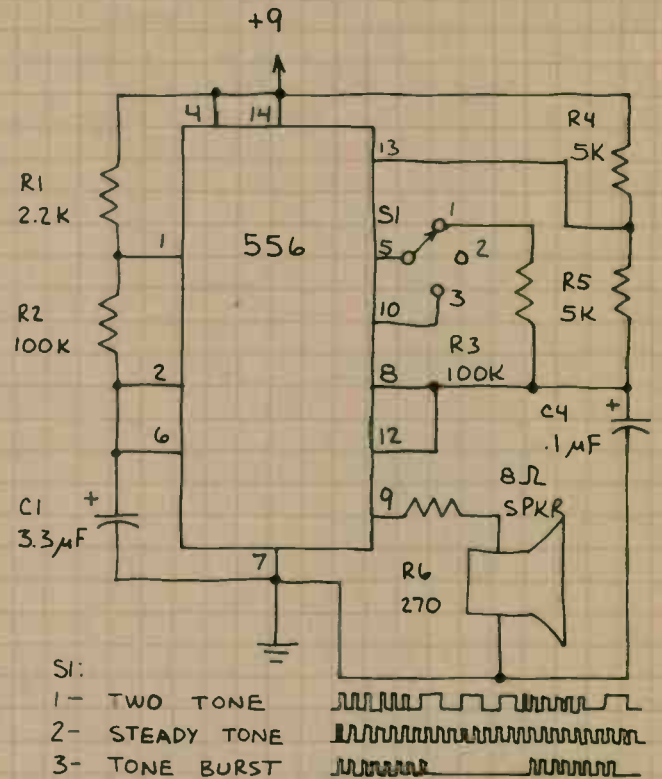


INTERVAL TIMER



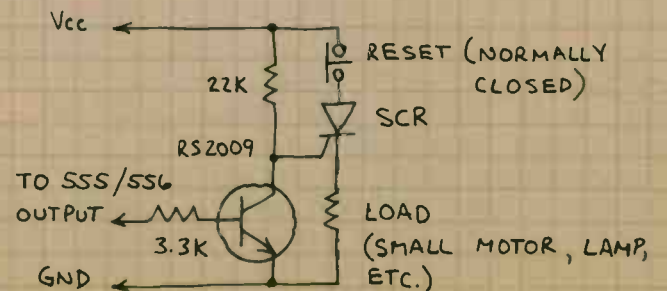
TIMER 1 IS CONNECTED AS ASTABLE OSCILLATOR. TIMER 2 IS A ONE-SHOT RELAY DRIVER. 1 FIRES 2 ONCE EACH CYCLE. 2 PULLS RELAY IN FOR 3-5 SECONDS.

3-STATE TONE SOURCE



S1:
 1- TWO TONE
 2- STEADY TONE
 3- TONE BURST

555/556 SCR OUTPUT

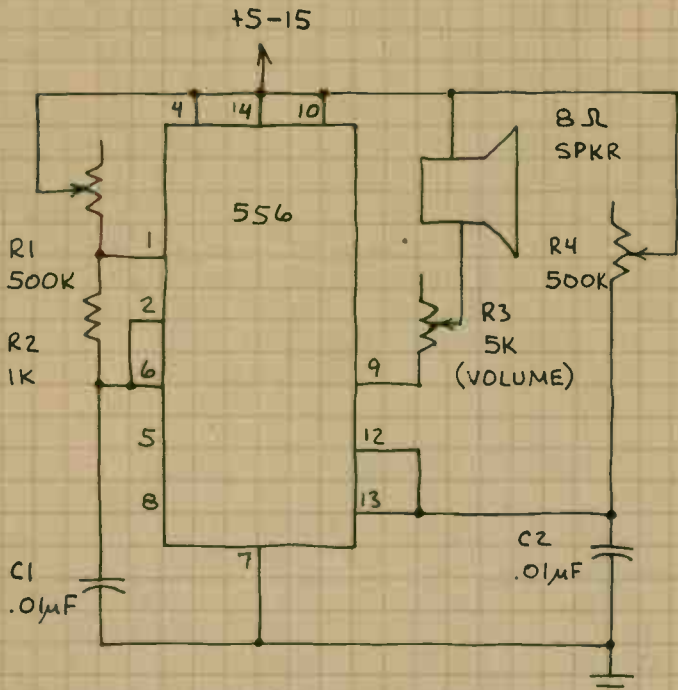


DUAL TIMER (CONTINUED)

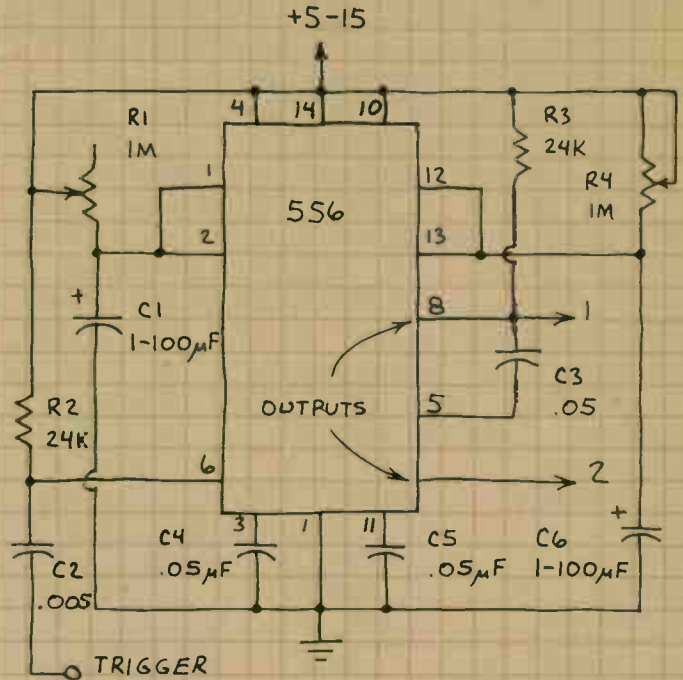
556

TWO-STAGE TIMER

SOUND SYNTHESIZER

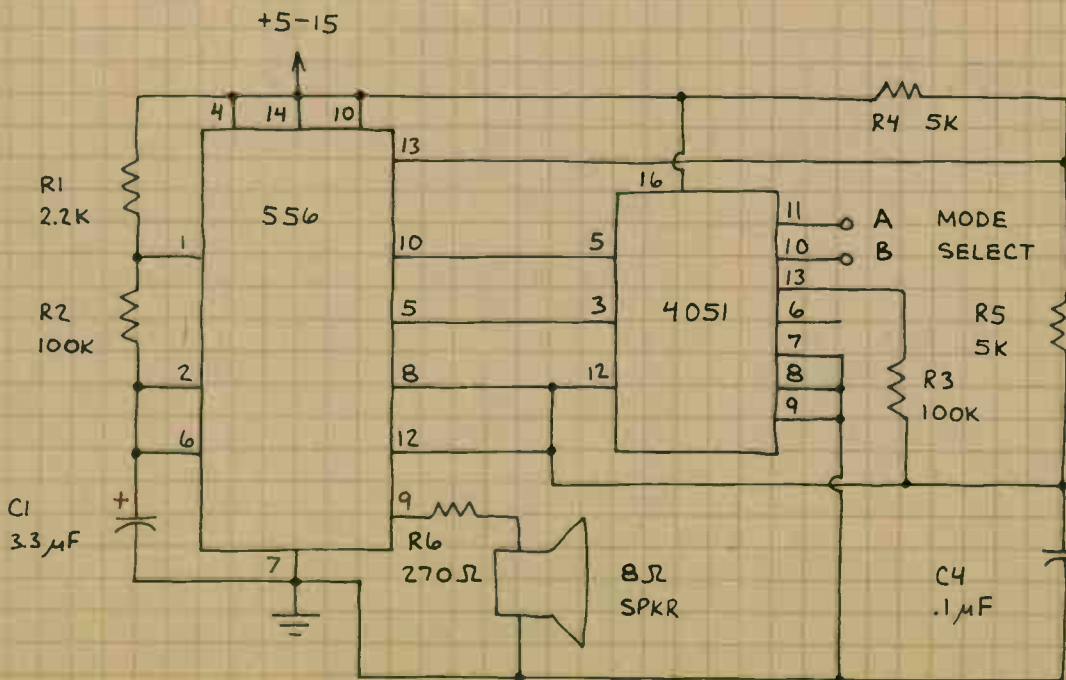


THIS CIRCUIT IS AN OSCILLATOR FOLLOWED BY A FREQUENCY DIVIDER. ADJUST R1 AND R4 FOR VERY UNUSUAL SOUND EFFECTS.



BOTH TIMERS ARE IN ONE-SHOT MODE. GROUNDING THE TRIGGER INPUT INITIATES THE FIRST TIMER'S CYCLE TIME. THE SECOND TIMER'S CYCLE BEGINS AFTER THE FIRST IS COMPLETE.

PROGRAMMABLE 4-STATE TONE GENERATOR



MODE SELECT

BA	OUTPUT
LL	TWO-TONE
LH	STEADY
HL	BURST
HH	METRONOME

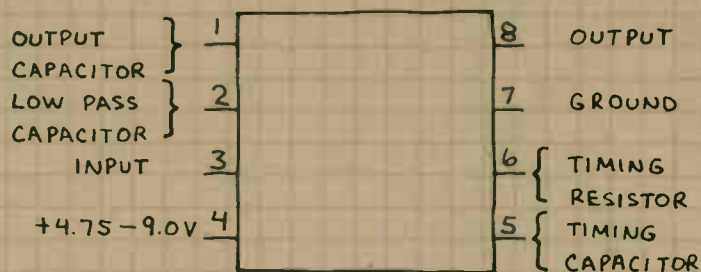
L = GND
H = +5-15 (V_{DD})

CHANGE C1 AND C4 TO ALTER THE OUTPUT TONES.

TONE DECODER

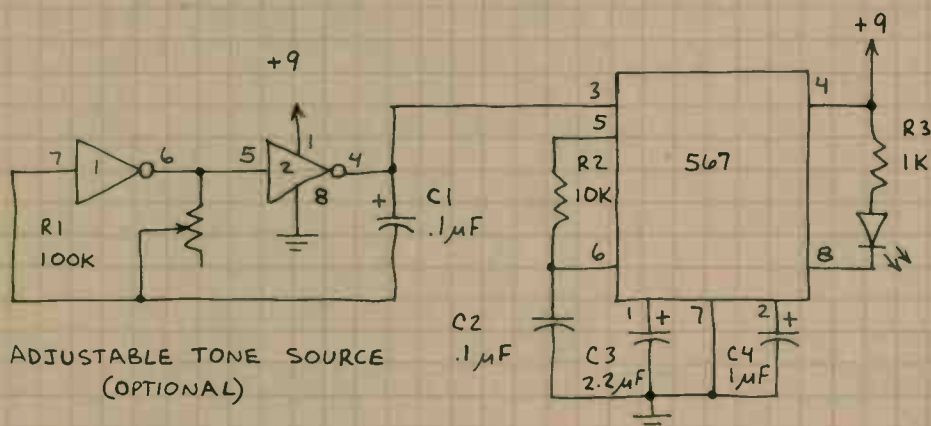
567

CONTAINS A PHASE-LOCKED LOOP. PIN 8 GOES LOW WHEN THE INPUT FREQUENCY MATCHES THE CHIP'S CENTER FREQUENCY (f_0). THE LATTER FREQUENCY IS SET BY THE TIMING RESISTOR AND CAPACITOR (R AND C) AND IS $(1.1) \div (RC)$. R SHOULD BE BETWEEN 2K-20K. THE 567 CAN BE ADJUSTED TO DETECT ANY INPUT BETWEEN 0.01 HZ TO 500KHZ. NOTE: 1 SECOND OR MORE MAY BE REQUIRED FOR THE 567 TO LOCK ON TO LOW FREQUENCY INPUTS! SEE THIS CHIP'S SPECIFICATIONS FOR MORE INFORMATION.



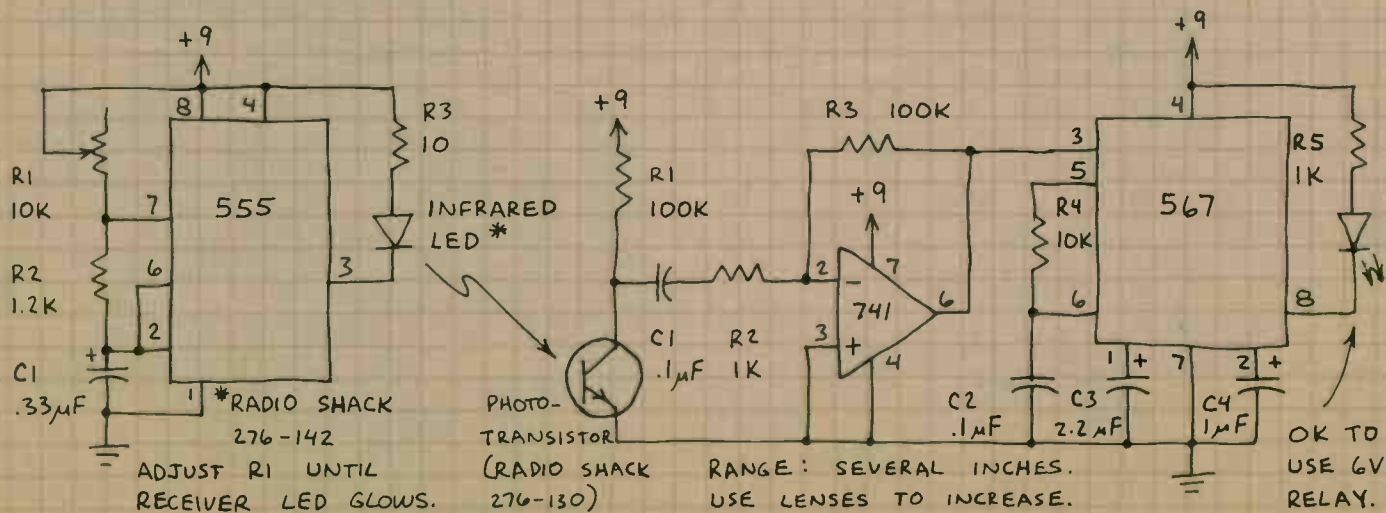
THE VALUE IN MICROFARADS OF THE LOW PASS CAPACITOR SHOULD BE n / f_0 WHERE n RANGES BETWEEN 1300 (FOR UP TO 14% f_0 DETECTION BANDWIDTH) TO 62,000 (UP TO 2% f_0 DETECTION BANDWIDTH). THE OUTPUT CAPACITOR SHOULD HAVE ABOUT TWICE THE CAPACITANCE OF THE LOW PASS FILTER CAPACITOR.

BASIC TONE DETECTOR CIRCUIT



THIS CIRCUIT IS HANDY FOR LEARNING TONE DECODER BASICS. THE 567 PORTION CAN BE USED IN MANY DIFFERENT APPLICATIONS (SEE BELOW). THE PREDICTED f_0 IS 1.1 KHZ. THE TEST CIRCUIT f_0 WAS 1.3 KHZ.

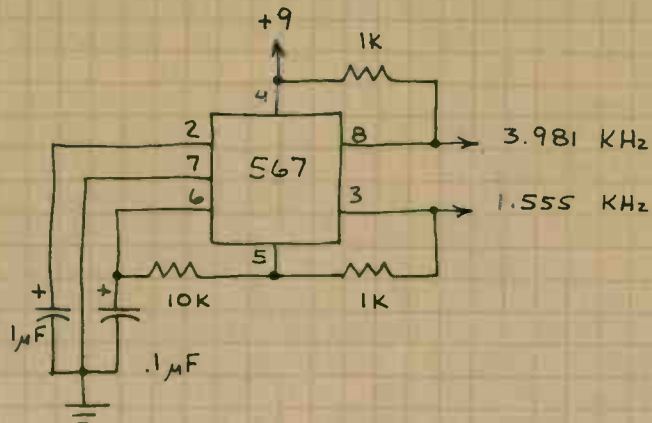
INFRARED REMOTE CONTROL SYSTEM TRANSMITTER RECEIVER



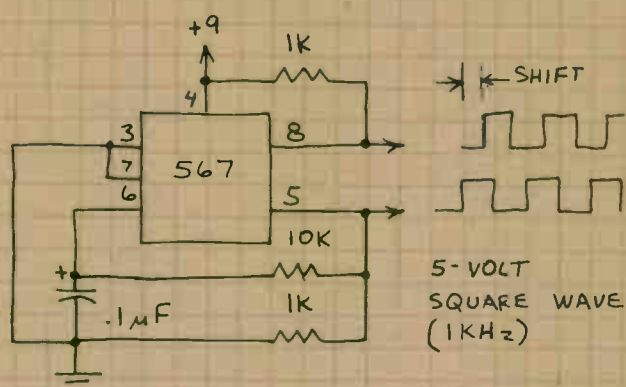
TONE DECODER (CONTINUED)

567

2-FREQUENCY OSCILLATOR



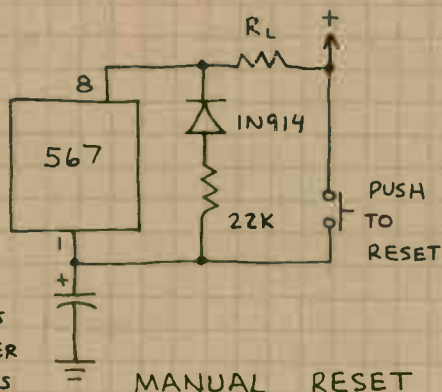
2-PHASE OSCILLATOR



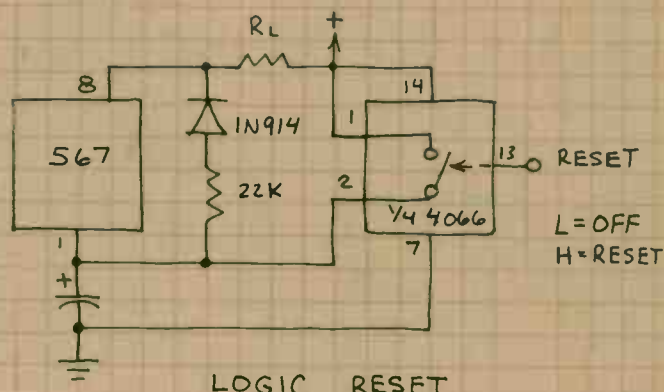
LATCHING THE 567 OUTPUT *

BOTH CIRCUITS SHOW ONLY THE LATCH COMPONENTS. R_L IS THE LOAD (LED, RELAY, ETC.).

* OUTPUT STAYS ON EVEN AFTER INPUT TONE IS REMOVED.

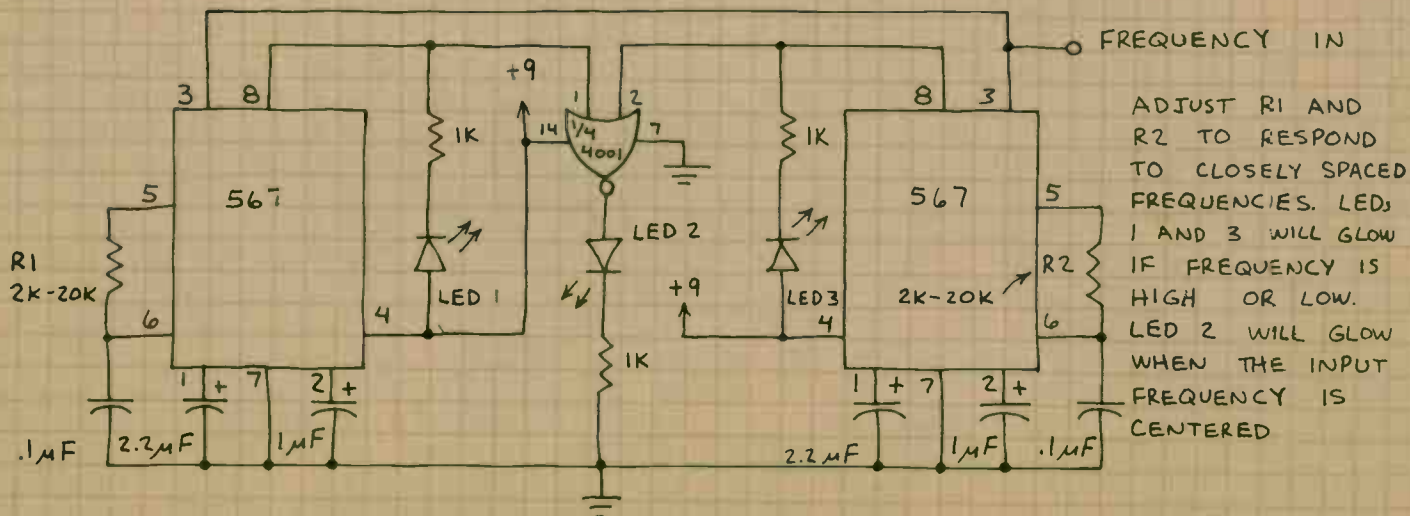


MANUAL RESET



LOGIC RESET

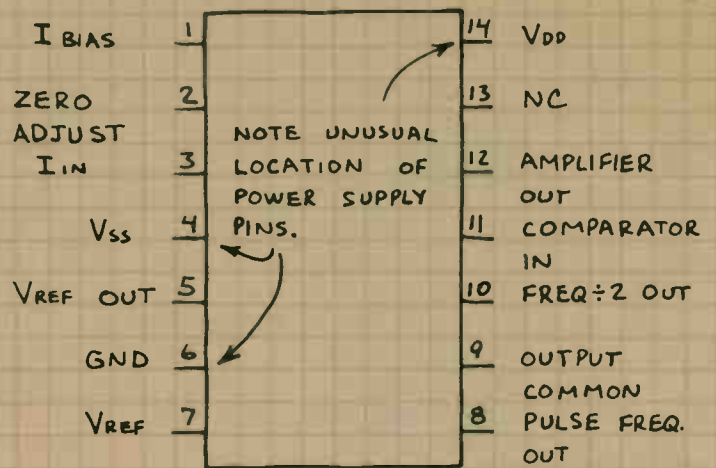
NARROW BAND FREQUENCY DETECTOR



ADJUST R_1 AND R_2 TO RESPOND TO CLOSELY SPACED FREQUENCIES. LED₁ AND LED₃ WILL GLOW IF FREQUENCY IS HIGH OR LOW. LED₂ WILL GLOW WHEN THE INPUT FREQUENCY IS CENTERED

VOLTAGE-TO-FREQUENCY FREQUENCY-TO-VOLTAGE CONVERTER 9400 (276-1790)

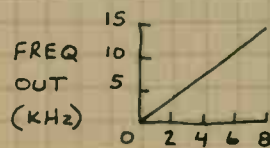
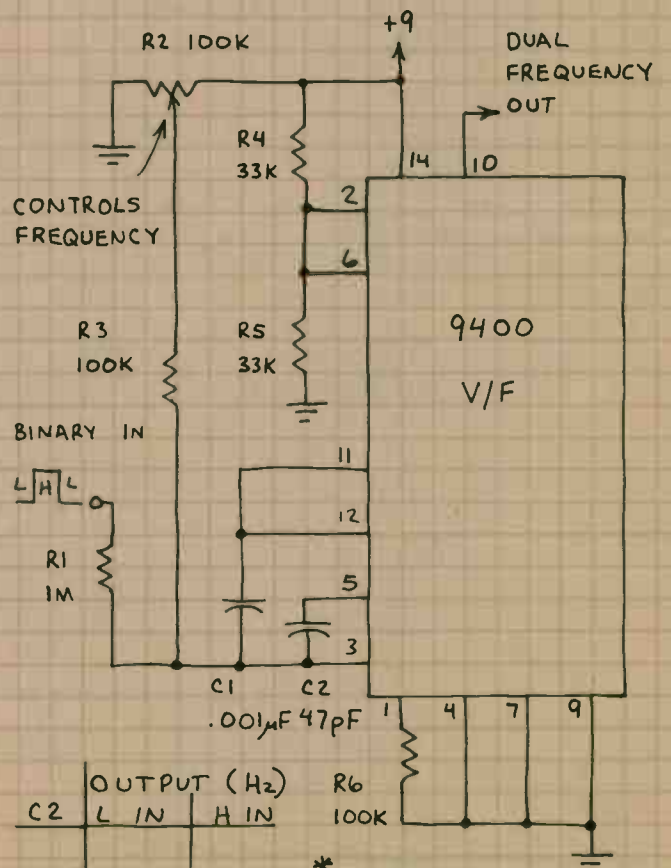
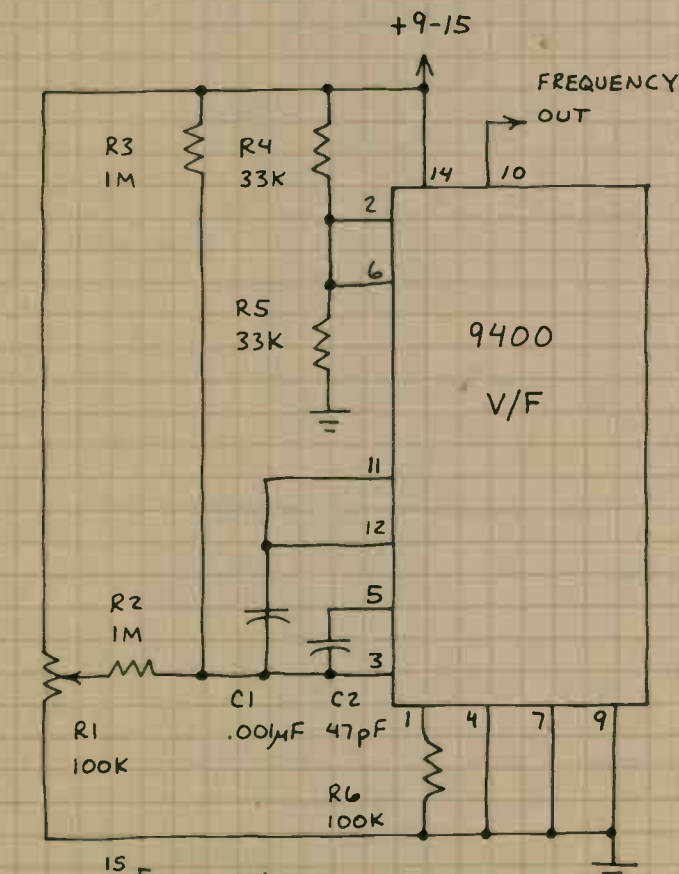
IN VOLTAGE-TO-FREQUENCY (V-F) MODE, AN INPUT VOLTAGE WHICH HAS BEEN CONVERTED INTO A CURRENT BY A RESISTOR AT PIN 3 IS TRANSFORMED INTO A PROPORTIONAL FREQUENCY. IN FREQUENCY-TO-VOLTAGE MODE A FREQUENCY AT PIN 11 IS CONVERTED INTO A PROPORTIONAL VOLTAGE. THIS CHIP CAN BE OPERATED FROM A SINGLE OR DUAL POLARITY POWER SUPPLY.



CAUTION: THIS CHIP INCORPORATES BOTH BIPOLAR AND CMOS CIRCUITRY. THEREFORE CMOS HANDLING PRECAUTIONS MUST BE FOLLOWED TO AVOID PERMANENT DAMAGE.

BASIC V/F CONVERTER

FSK* DATA TRANSMITTER



R1 - OPTIONAL (USE TO SUPPLY INPUT VOLTAGE DURING TESTS).

C2	OUTPUT (Hz)	
	L IN	H IN
47pF	3943	17,671
.1µF	1000	1665

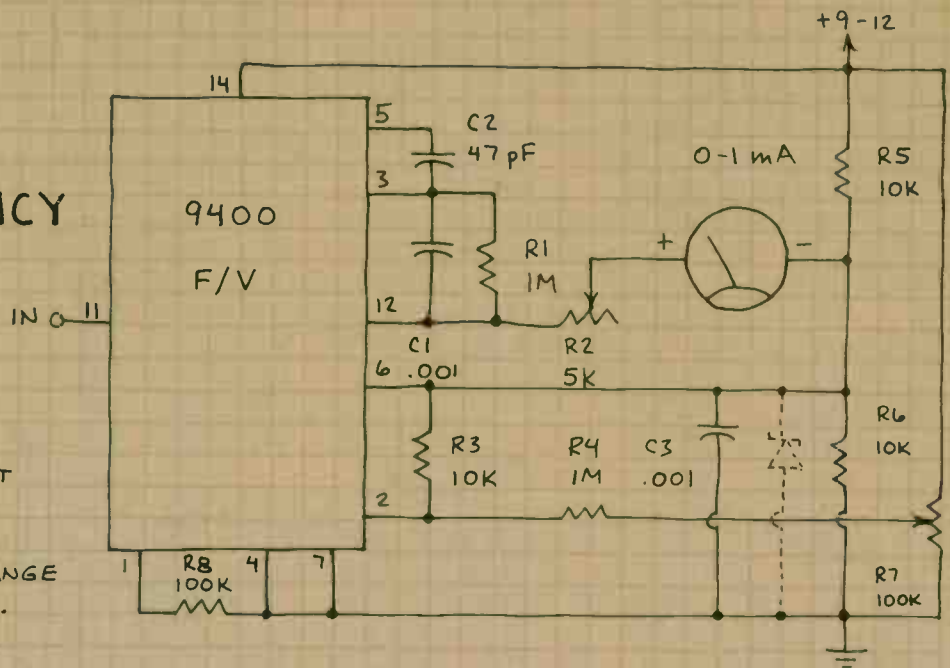
R2 CONTROLS OUTPUT.

*FREQUENCY SHIFT KEYING. USE TO SEND BINARY OVER WIRE OR RADIO.

VOLTAGE-TO-FREQUENCY (CONTINUED) FREQUENCY-TO-VOLTAGE CONVERTER 9400

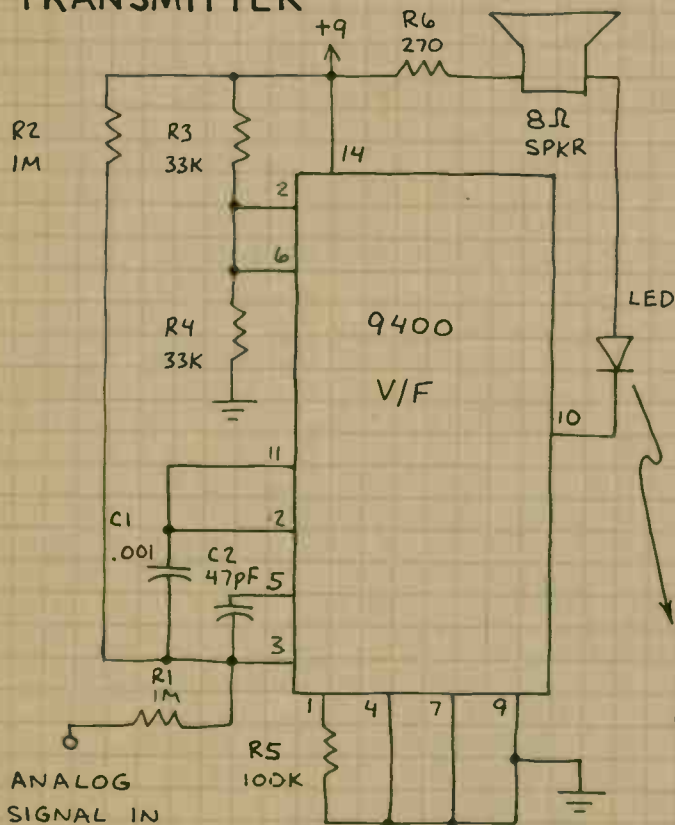
AUDIO FREQUENCY METER

INPUT FREQUENCY MUST CROSS 0 VOLT. WORKS UP TO 25 KHz. R7 IS ZERO ADJUST FOR METER. ADJUST R5 TO GIVE MAXIMUM READING AT 25 KHz IN. FOR MORE STABILITY, CHANGE R6 TO 6-V ZENER DIODE.

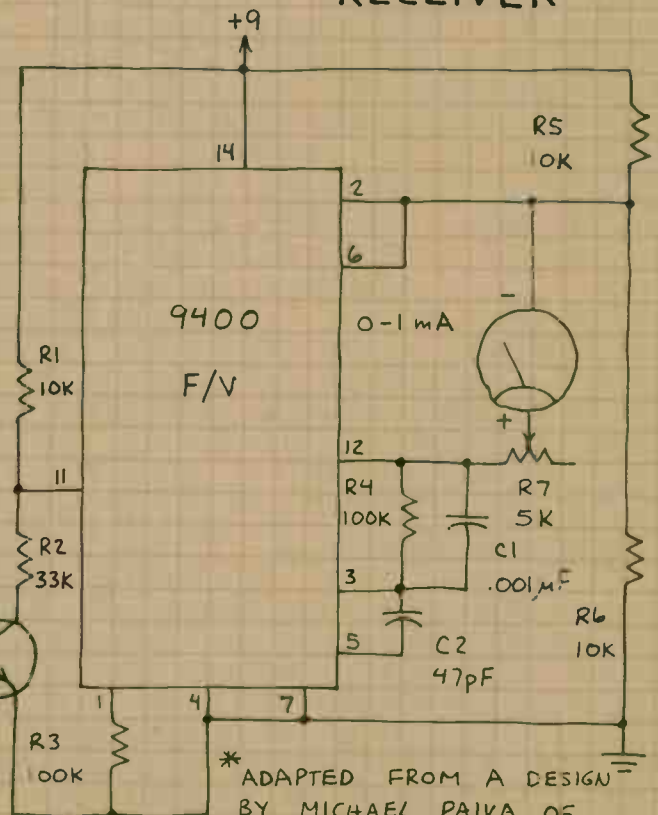


ANALOG DATA TRANSMISSION SYSTEM*

TRANSMITTER



RECEIVER



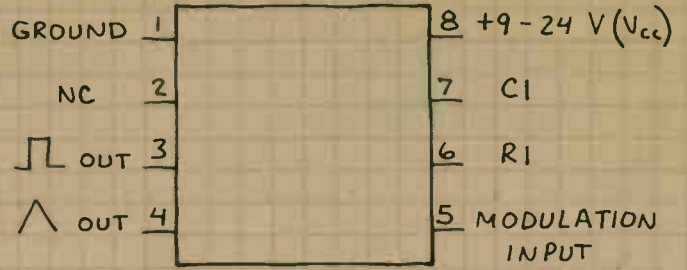
* ADAPTED FROM A DESIGN BY MICHAEL PAIVA OF TELEDYNE.

THE SPKR IS OPTIONAL BUT MAY PROVE HELPFULL DURING INITIAL TESTING. USE AN INFRARED LED (RADIO SHACK 276-42). Q1 CAN BE THE PHOTOTRANSISTOR SUPPLIED WITH THE LED OR RADIO SHACK 276-130. R7 IN THE RECEIVER IS ZERO ADJUST.

VOLTAGE CONTROLLED OSCILLATOR (VCO)

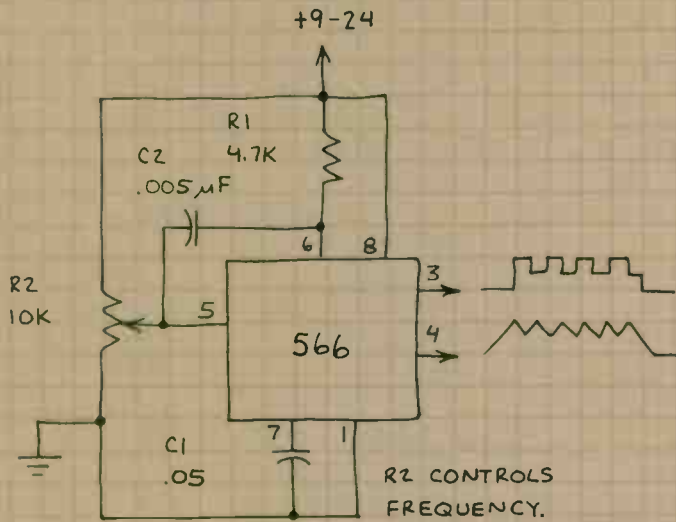
566

VERY STABLE, EASY TO USE TRIANGLE AND SQUARE WAVE OUTPUTS. R1 AND C1 CONTROL CENTER FREQUENCY. VOLTAGE AT PIN 5 VARIES FREQUENCY. IMPORTANT: OUTPUT WAVE DOES NOT FALL TO 0 VOLT! AT 12 VOLTS (PIN 8), FOR EXAMPLE, TRIANGLE OUTPUT CYCLES BETWEEN +4 AND +6 VOLTS. SQUARE OUTPUT CYCLES BETWEEN +6 AND +11.5 VOLTS.

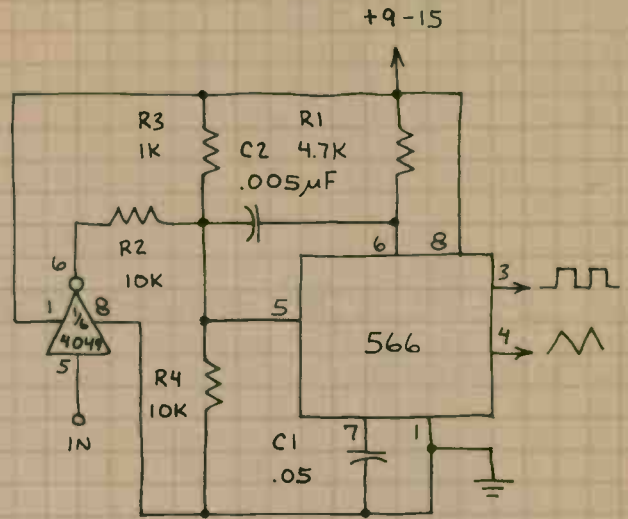


$$\text{CENTER FREQUENCY} = \frac{2 (V_{cc} - \text{INPUT VOLTS})}{R1 C1 V_{cc}}$$

FUNCTION GENERATOR



FSK GENERATOR *



* FSK MEANS FREQUENCY SHIFT KEYING.

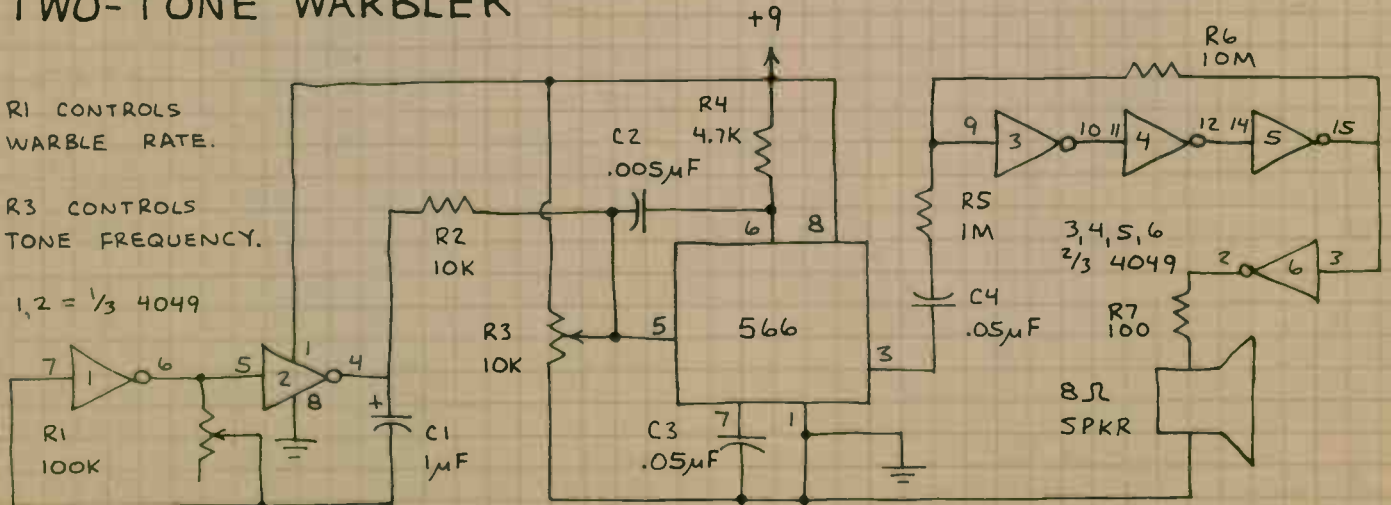
IN	OUTPUT	USE TO TRANSMIT BINARY DATA OVER TELEPHONE LINES OR STORE BINARY DATA ON MAGNETIC TAPE.
L	1.5 KHz	V _{cc} = 9 VOLTS.
H	3.0 KHz	

TWO-TONE WARBLER

R1 CONTROLS WARBLE RATE.

R3 CONTROLS TONE FREQUENCY.

1,2 = 1/3 4049

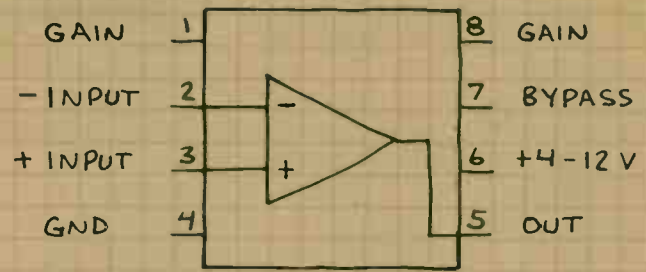


124

POWER AMPLIFIER

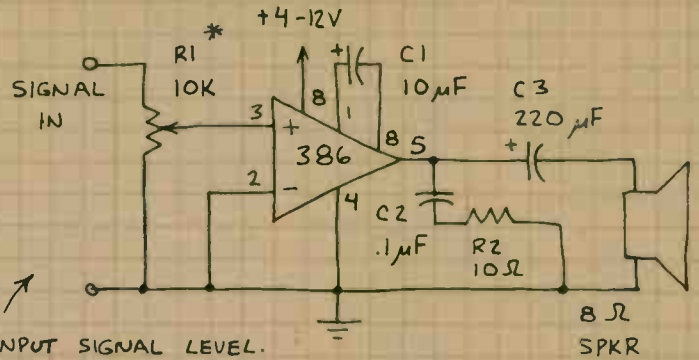
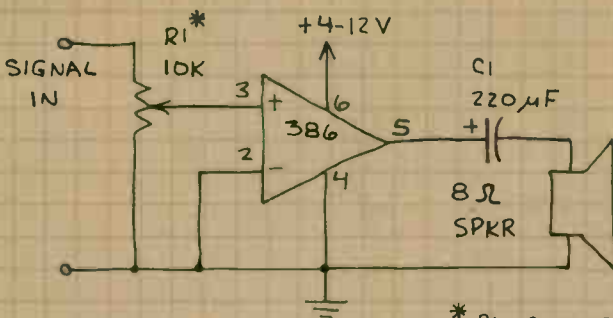
LM386

DESIGNED MAINLY FOR LOW VOLTAGE AMPLIFICATION. WILL DRIVE DIRECTLY AN 8-OHM SPEAKER. GAIN FIXED AT 20 BUT CAN BE INCREASED TO ANY VALUE UP TO 200.



X20 AMPLIFIER

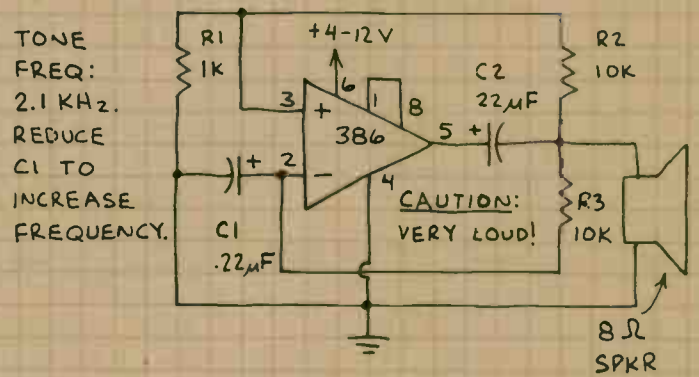
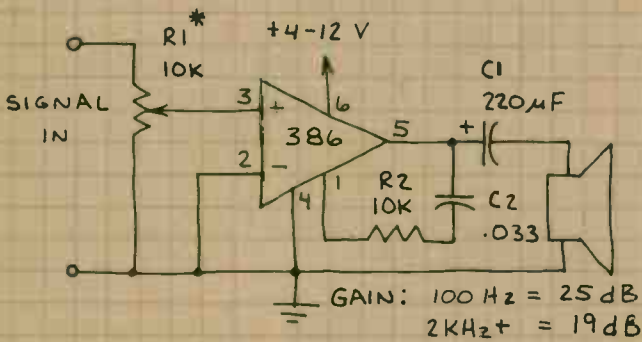
X200 AMPLIFIER



* R1 CONTROLS INPUT SIGNAL LEVEL.

BASS BOOSTER

AUDIBLE ALARM

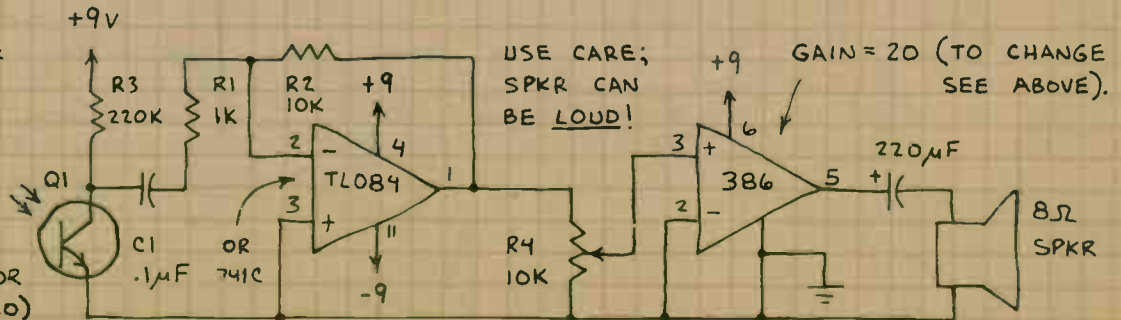


TO NE FREQ:
2.1 KHZ.
REDUCE
C1 TO
INCREASE
FREQUENCY.

HIGH GAIN POWER AMPLIFIER

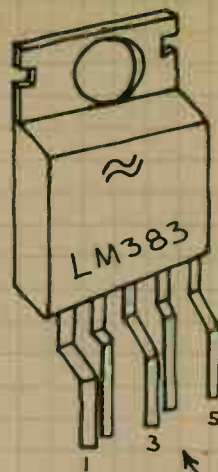
CIRCUIT SHOWN IS VERY SENSITIVE LIGHT WAVE RECEIVER. OK TO USE OTHER OP-AMPS FOR THE TLO84.

Q1 - PHOTOTRANSISTOR (RADIO SHACK 276-130)



8-WATT POWER AMPLIFIER LM383 / TDA2002

POWER AMPLIFIER DESIGNED SPECIFICALLY FOR AUTOMOTIVE APPLICATIONS — BUT IDEAL FOR ANY AUDIO AMPLIFICATION SYSTEM. DESIGNED TO DRIVE A 4-OHM LOAD (EQUIVALENT TO A SINGLE 4-OHM SPEAKER OR TWO 8-OHM SPEAKERS IN PARALLEL). THIS CHIP CONTAINS THERMAL SHUTDOWN CIRCUITRY TO PROTECT ITSELF FROM EXCESSIVE LOADING. THIS WILL CAUSE SEVERE DISTORTION DURING OVERLOAD CONDITIONS. YOU MUST USE AN APPROPRIATE HEAT SINK (e.g. RADIO SHACK 276-1363). SPREAD SOME HEAT SINK COMPOUND (276-1372) ON THE LM383 TAB BEFORE ATTACHING THE HEAT SINK.

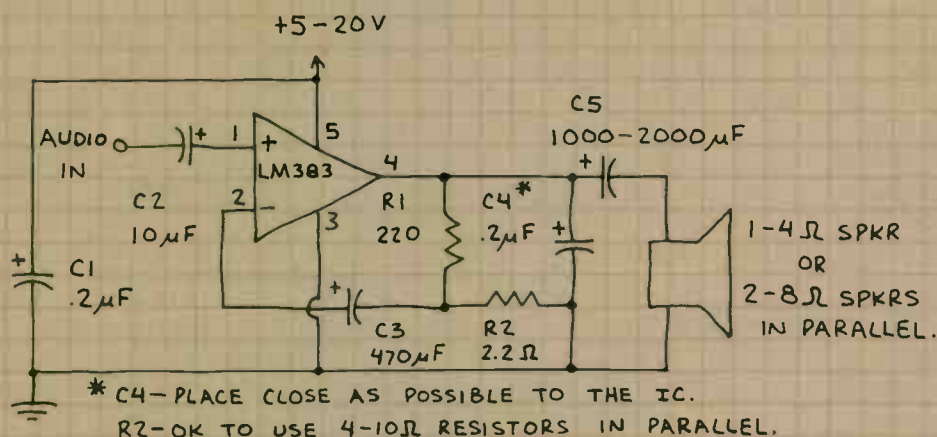


NOTE PRE-FORMED LEADS.



1- + IN
2- - IN
3- GND
4- OUT
5- +5-20V

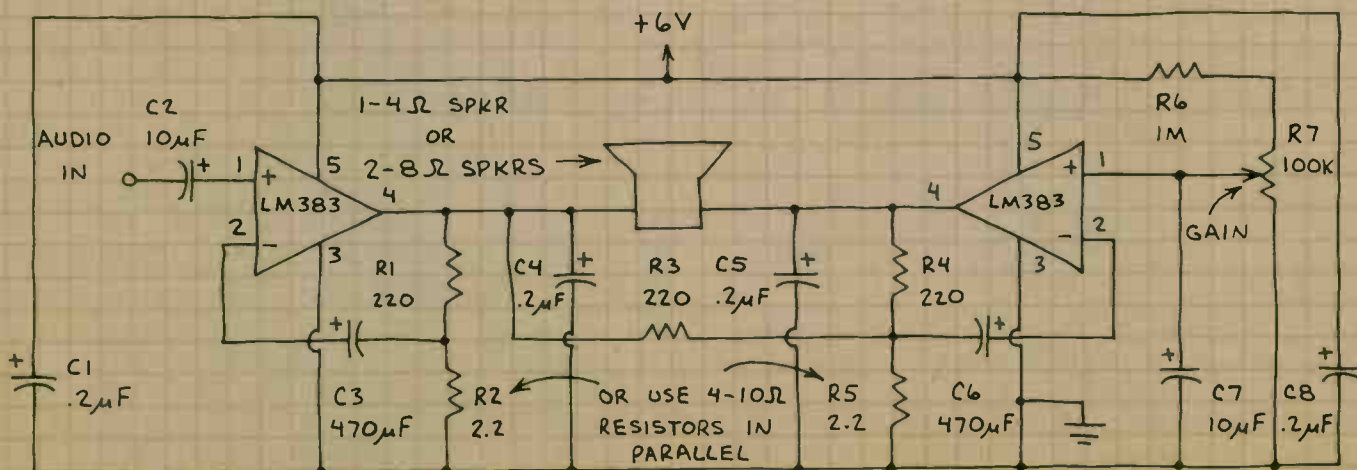
8-WATT AMPLIFIER



OPERATION:

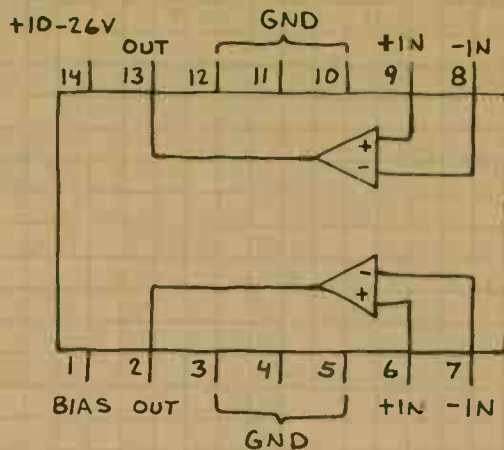
1. USE HEAT SINK.
2. REDUCE POWER SUPPLY VOLTAGE TO 6-9 VOLTS (AS IN CIRCUIT BELOW) IF SEVERE DISTORTION OCCURS.
3. DON'T APPLY EXCESSIVE INPUT SIGNAL.

16-WATT BRIDGE AMPLIFIER



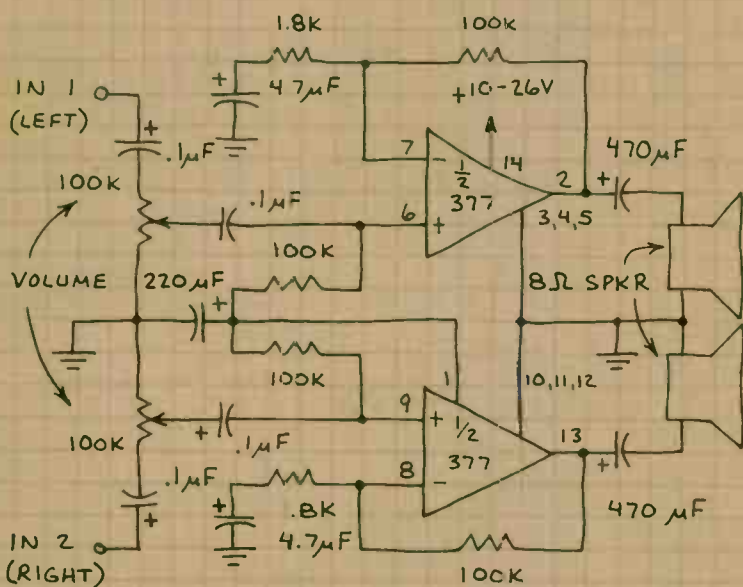
DUAL 2-WATT AMPLIFIER LM1877/LM377

HIGH QUALITY, EASY TO USE POWER AMPLIFIER. IDEAL FOR DO-IT-YOURSELF STEREO, P.A. SYSTEMS, INTERCOMS, ETC. AUTOMATIC THERMAL SHUTDOWN PROTECTS AGAINST OVERHEATING. 70dB CHANNEL SEPARATION MEANS VIRTUALLY NO CROSSTALK. ONLY 3 MICROVOLTS NOISE INPUT. HEATSINKING: UNNECESSARY IN MANY APPLICATIONS SINCE AVERAGE POWER IS USUALLY WELL BELOW BRIEF PEAKS. IN ANY CASE, PINS 3, 4, 5, 10, 11 AND 12 SHOULD BE CONNECTED TOGETHER. IF LOAD EXCEEDS DEVICE RATING, THERMAL SHUTDOWN WILL OCCUR... AND WILL CAUSE SEVERE DISTORTION. USE HEATSINK (UP TO 10 SQUARE INCHES OF COPPER FOIL ON PC BOARD OR METAL FIN) IF THIS OCCURS.

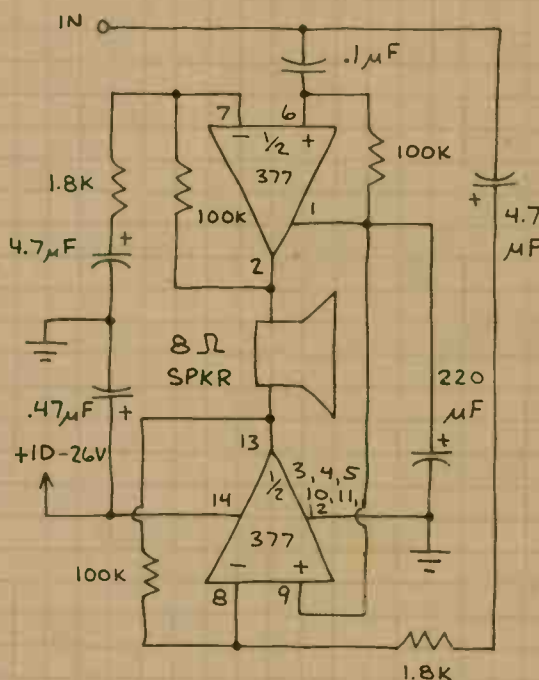


NOTE: GND PINS SHOULD BE HEAT SUNK FOR MAXIMUM POWER.

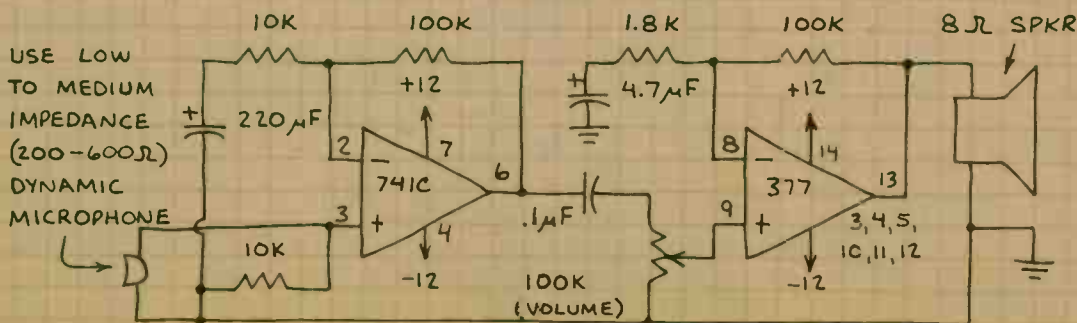
STEREO AMPLIFIER



4-WATT AMPLIFIER



PUBLIC ADDRESS SYSTEM



THIS CIRCUIT WORKS WELL. NOTE FEWER PARTS IN LM1877 / LM377 STAGE... THANKS TO SPLIT POWER SUPPLY.

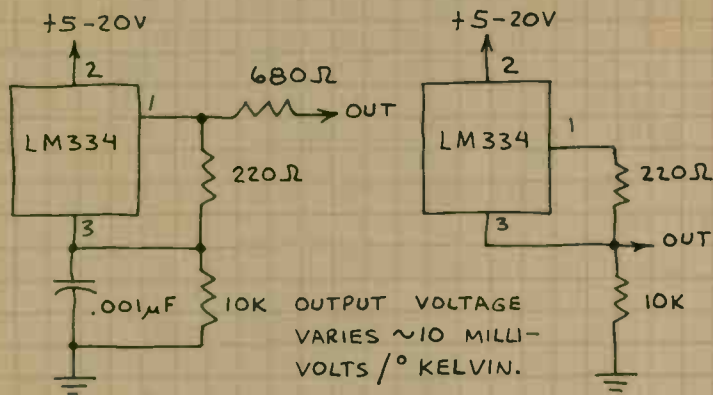
TEMPERATURE SENSOR AND ADJUSTABLE CURRENT SOURCE LM334 (276-1734)

VERSATILE 3-LEAD COMPONENT THAT LOOKS MORE LIKE A TRANSISTOR THAN AN IC. CAN BE USED AS A TEMPERATURE SENSOR, CURRENT SOURCE FOR LEDs AND OTHER COMPONENTS OR CIRCUITS, VOLTAGE REFERENCE, ETC.

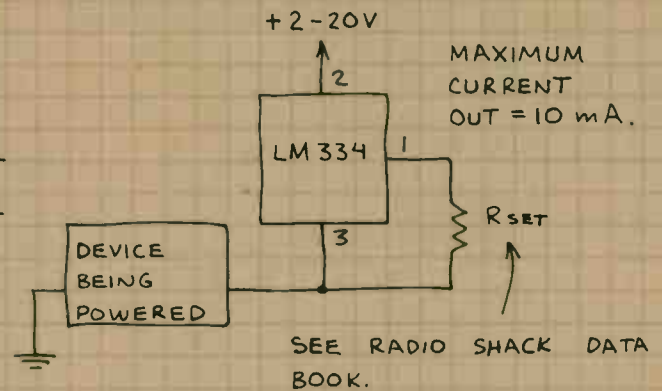


1 = R
2 = +V
3 = -V (GND)

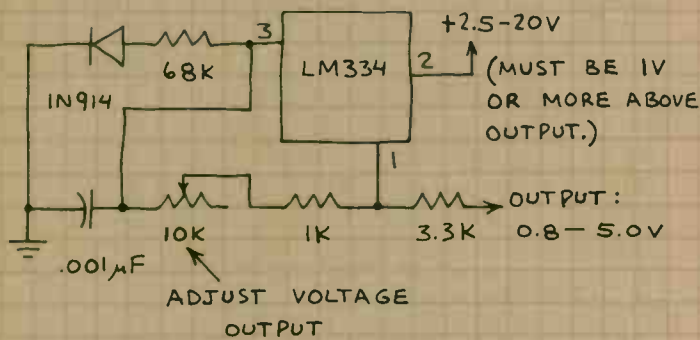
BASIC THERMOMETERS



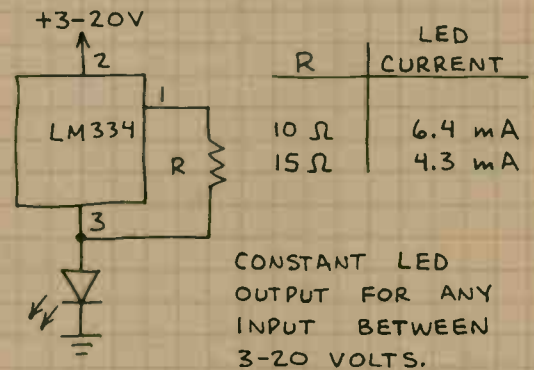
BASIC CURRENT SOURCE



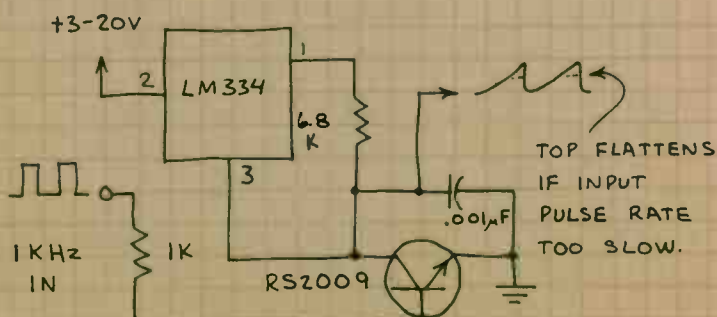
VOLTAGE REFERENCE



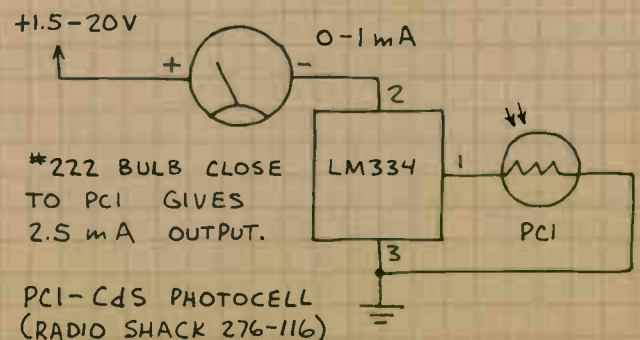
CALIBRATED LED




RAMP GENERATOR



LIGHT METER



RADIO SHACK  A DIVISION OF TANDY CORPORATION

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INTRODUCTION

This SEMICONDUCTOR REFERENCE HANDBOOK is intended to be just that—a reference handbook. It is not a definitive text book on semiconductors. It is a compilation of data on Radio Shack's line of prime-quality ARCHER semiconductors. Every ARCHER device covered in this Handbook is guaranteed prime—they are not "fall-outs" or "seconds"; all are top-quality, with known JEDEC, EIA or manufacturer's numbers.

At the back of the book is a cross-reference listing for replacement of Transistors, Diodes and other interchangeable semiconductor devices. The total number of cross-referenced devices exceeds 95,000. These cross-reference/replacement listings are computer-selected and are based on careful analysis of important parameters of the listed devices.

NOTE: If you can't find a replacement listing for a device you require, refer to the specification listings of the appropriate ARCHER family device. Often you will be able to make suitable replacements based on the information presented.

Each ARCHER replacement should meet or exceed the required parameters. However, due to differences in Quality Control and Manufacturing procedures (which often allow for or result in broad parameter variations), and because many of the ARCHER devices are capable of better performance than the original, Radio Shack does not guarantee, nor does it imply, that the listed items will provide an exact replacement in every instance. Therefore we recommend that you check the voltage and current requirements of the circuit (and other pertinent specifications) before replacement and compare with the specifications listed for that particular ARCHER device.

HOW TO USE THIS BOOK

This book has been prepared to aid in BOTH replacement and original applications of Semiconductor devices. The information included will be invaluable for the service technician as well as the circuit designer (whether he be an engineer, hobbyist, student or electronics experimenter).

We have included hints on handling Semiconductor devices, operating considerations, and some simple tests to aid you in evaluating the quality of the device in existing equipment (and thus the need for replacement). Also, a complete section on the specifications for each of the ARCHER devices is included: if there is any question in your mind about replacement equivalents or original use, refer to the appropriate category in the book. You will find the important characteristics specified there.

The next to last section is an extensive listing of replacement and cross reference between other manufacturer's numbers (both JEDEC/EIA 2N—numbers and in-house designations) and the ARCHER devices. This listing provides for the substitution of over 95,000 semiconductors with ARCHER devices.

The final section includes case style drawings and some handy reference notes, a comprehensive glossary of commonly used words, plus symbols and abbreviations. This section also includes some helpful indexes.

CARE AND HANDLING OF TRANSISTORS

Most modern transistors are somewhat immune from mechanical shock; however, it is always a good idea to keep them from excessive mechanical shocks, especially the metal-case type (avoid dropping, etc.).

When cutting transistor leads, use scissor-type cutting tools (rather than diagonal cutting tools which use a crimping action). Crimp-type cutting tools produce a mechanical shock along the lead which when transmitted to the semiconductor chip or material can cause fracture. Consider the force with which the cut lead flies off the crimp-type cutting tool and you have a good idea of the intensity of the equal and opposite force which acts on the lead going into the device.

It is always a good practice to use a heat-sink tool on a transistor lead when soldering (use a low-wattage iron—30-watts or less). Heat from soldering can cause problems (especially with certain types of semiconductor devices). Thus, to be sure, always use a heat-sink on the lead when soldering. Gripping the lead with long nose pliers between the solder connection and the case of the device makes a good heat-sink; or use a tool designed for such use.

SILICON OR GERMANIUM?

The quickest way to determine if a transistor is germanium or silicon type, is to check the normal emitter-base voltage drop. With NPN devices, if the base is approximately 0.25 volts positive with respect to the emitter, it is a germanium type. If the voltage is about 0.65 volts, it is a silicon type. For PNP devices, the voltage will be the same value, but opposite in polarity (0.25 volts for germanium and 0.65 for silicon).

OPERATING CONSIDERATIONS

Before replacing an original-equipment device with the recommended Archer Type:

(A) Compare the lead or terminal arrangement of the Archer replacement device with the lead or ter-

minimal arrangement of the original device. If these arrangements are different, and the original transistor is a "plug in" type, bend the leads of the ARCHER device so that the base, emitter and collector leads will mate with the original transistor leads. Trim the leads after soldering in place.

CAUTION: Be particularly careful about "pin-circle" and "in-line" lead break-out type transistors. Often one manufacturer makes a type with "in-line" leads, while another may make the same type with "pin-circle" configuration. **Doublecheck both the original and the replacement device before soldering or plugging in transistors.**

BOTTOM VIEW



(B) Certain considerations are involved whenever an original equipment transistor is replaced by one having a different type designation. When an ARCHER series transistor is used to replace an original equipment device in an untuned amplifier stage operating at a low signal level such as the untuned RF-amplifier (antenna) stage of a radio receiver, or a low-level AF amplifier stage, it is generally unnecessary to make any circuit adjustment to assure proper performance of the equipment. However, when a replacement is made in a tuned RF amplifier stage, it is always advisable to check the alignment of the associated tuned circuits to assure proper tracking and to achieve the required gain without loss of stability.

(C) When replacements are made in stages operating at relatively high power levels, such as Class A and Class B AF output stages of automobile radio receivers, phonographs and AF-amplifier systems, the transistor bias should be checked and adjusted, if necessary, to protect the ARCHER replacement transistors against excessive dissipation and to minimize distortion. Means for making adjustments are generally provided in the equipment, and the necessary instructions are usually given in the equipment manufacturer's service data.

(D) When installing an ARCHER transistor as a substitute for an original equipment type in an FM tuner, TV tuner, or other circuits operating at frequencies in the VHF or UHF regions, it is extremely important not to change any of the lead lengths or position of the original circuit. Before removing the original transistor, carefully note its position with respect to other circuit components as well as the lengths and placement of the transistor leads, and duplicate these details as closely as possible with the ARCHER replacement transistor. Failure to observe this precaution can result in improper tuning or circuit instability. The same holds true for any replacement of Integrated Circuits, specially in FM radios and TV Receivers. Failure to

observe this precaution can result in damage in the device. Transistor substitution in tuned circuits will often require realignment of the circuit.

SILICON VS SELENIUM RECTIFIERS

Silicon rectifiers are inherently more efficient than selenium or other metallic-oxide type rectifiers. When a silicon rectifier is used to replace a selenium rectifier in the power supply of a typical line-operated radio or TV receiver, the silicon rectifier will frequently deliver higher DC output voltage than the original device.

In some cases, this higher supply voltage may improve the performance of the equipment. However, in many other cases, it may immediately or eventually damage filter capacitors and/or other components which were designed to withstand only the voltage delivered by the original selenium rectifier. To prevent such damage, it is generally advisable to insert a power type resistor in series with the silicon rectifier either on the input side, between the AC supply and the rectifier, or on the output side between the rectifier and the first filter capacitor. The value of this resistor will depend on the required reduction in the DC output voltage and on the DC load current of the equipment. This value may be determined experimentally or calculated from the equation:

$$R = \frac{E}{I}$$

R is the required resistance in ohms.

E is the required reduction in DC output voltage in volts.

I is the DC load current in amperes.

The wattage rating of the resistor should be at least 2 X EI (in no case less than 10 watts).

SOLDERING PRECAUTIONS

Extreme care should always be used in making solder connections to semiconductors. Momentary application of excessive heat, or even prolonged application of a properly heated soldering tool to a semiconductor lead or terminal, can permanently damage the device. Observe the following precautions in soldering a semiconductor lead or terminal:

1. Solder as far as possible from the body of the semiconductor.

2. Never, apply heat or molten solder to a lead or terminal for longer than 10 seconds or at a point closer than 1/16 inch to the body of the device.

3. Use a low voltage iron (30 watts or less) specifically intended for use with transistors or miniature circuit components.

4. Keep the surfaces to be soldered clean and the tip of the soldering tool adequately tinned so that the connection can be made as quickly as possible.

5. Always use a heat sink on the lead when soldering. Gripping the lead or terminal with longnose pliers between the solder connection and case or body allows the pliers to act as a heat sink, conducting heat away from the internal elements of the device.

ABOUT CASE DIMENSIONS

In some instances, the case of an ARCHER semiconductor may be slightly taller or thicker than that of the original device or have a slightly different shape, particularly if the original device is a foreign type not made to U.S.A. EIA (JEDEC) standards. These mechanical differences should not affect the performance of the equipment in which the replacement is made and normally will not prevent or complicate the installation of the ARCHER replacement device.

You should realize that cross-reference substitution listings are created based **on electrical parameters (not necessarily on mechanical size or type)**. Thus, when you make substitutions based on our listings, check for physical/mechanical compatibility. If space is limited, it would be a good idea to check physical dimensions as well as electrical specs before making substitution.

GENERAL PRECAUTIONS

ARCHER transistor and ARCHER semiconductors should not be inserted or withdrawn from circuits with the power on, because transient currents may cause permanent damage to the device. In some cases ARCHER semiconductors are in metal cans and thus could possibly become shock hazards if they are allowed to operate at a voltage appreciably above or below ground potential.

For the most effective protection, a power transistor should be operated with an adequate heat sink and with the lowest value of resistance or impedance in the emitter-to-base circuit consistent with driving signal considerations. The transistor should be protected against extremely high collector voltage pulses which may be generated when the device is operated with inductive loads particularly when current transients are present.

When replacing a power transistor or rectifier which is attached to the equipment chassis, or to a special heat sink, observe the following precautions:

A. In the case of oxide coated metal washers or wafers, which are frequently used as electrical insulators between the cases of power transistors and the chassis or heat sink, it is important not to scratch, chip or otherwise damage the oxide surface.

B. When installing an ARCHER power transistor, where a mica or oxide coated metal washer was used to insulate the case of the original device electrically from the case, apply a thin coating of Heat Sink Compound (Radio Shack Number 276-1372) between the washer and the chassis or heat sink.

TESTING A TRANSISTOR

Before replacing a transistor, you want to be sure it needs to be replaced. Always check the entire circuitry to be sure the transistor requires replacement.

The best method for checking transistors is to use a good transistor checker (dynamic in-circuit and out-of-circuit type). However, a sensitive VOM can give you a good indication of the quality of the device.

I. In-Circuit Testing

- A. First, check to see if the emitter-base junction is forward-biased. An NPN transistor should show the base 0.2 to 0.65 volts positive with respect to the emitter (approximately 0.25 volts for a germanium type and 0.6 volts for silicon). A PNP transistor should show the base 0.2 to 0.65 volts negative with respect to the emitter (0.25 volts for germanium and 0.6 volts for silicon).
- B. Check to see if the device is functioning as an amplifier. Short the emitter-base junction to remove forward bias. Voltage at the collector lead should rise to approximately the potential of the collector supply buss line. Any difference is caused by ICES (collector-to-base leakage current). The closer the collector voltage approaches the buss line, the lower ICES is and the better the transistor.

II. Out-of-Circuit Testing

Again, for the best indication of transistor quality, use a good transistor checker. However, an ohmmeter can be used as described here.

Before using the ohmmeter, find out which polarity of the internal ohmmeter battery is connected to which test lead (not all ohmmeters have the + battery polarity connected to the red lead and the - battery polarity connected to the black lead). To determine the polarity of the leads when using the ohmmeter function, use an external voltmeter or study the schematic of your VOM.

Also, remember that in most transistor circuits you are dealing with low voltages and currents (in some cases, very low). Therefore, **NEVER** use RX1 scale (extensive currents can flow through a junction, permanently damaging the transistor). It is best to determine the maximum amount of current available in each resistance range before using an ohmmeter for testing semiconductor junctions.

After you have evaluated your VOM for the above and are sure you will not damage a transistor (with excessive current or voltage in any given ohmmeter range), proceed as follows:

- A. Small Signal PNP Germanium Transistors
 1. Connect the positive lead of your ohmmeter to the emitter. Connect the negative lead to the base. You should read 200-500 ohms.
 2. Connect the negative lead to the collector. You should read 10K-100K. Shorting collector base, the resistance should decrease.
- B. Small Signal NPN Germanium Transistors
Reverse the polarity of the leads; the readings should be approximately the same.
- C. Power PNP Germanium Transistors
 1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 35-50 ohms.
 2. Connect the negative lead to the collector. The reading should be several hundred ohms. Shorting collector to base, the resistance should decrease.

- D. Power NPN Germanium Transistors
Reverse the polarity of the leads; the reading should be approximately the same.
- E. Small Signal PNP Silicon Transistors
1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 1K-3K.
 2. Connect the negative lead to the collector. The reading should be very high (may show as an "open").
- F. Small Signal NPN Silicon Transistors
Reverse the polarity of the leads; the readings should be approximately the same.
- G. Power PNP Silicon Transistors
1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 200-1K.
 2. Connect the negative lead to the collector. The reading should be about 1 megohm or more.
- H. Power NPN Silicon Transistors
Reverse the polarity of the leads; the readings should be approximately the same.
- The resistance readings noted above can only be approximate; as long as you obtain somewhat proportionate readings (emitter-base readings as compared to emitter-collector), you can safely assume the transistor is OK.

HANDLING OF INTEGRATED CIRCUITS

Because MOS devices have extremely high input resistance, they are susceptible to damage when exposed to static electrical charges (even electrical charges that normally build up on the human body can cause damage). To avoid possible damage to the devices during handling, testing, or actual operation, the following procedures should be observed:

1. Except when being tested or in actual operation, the leads of devices should be in contact with a conductive material, to avoid build-up of static charge.
2. Soldering iron tips, tools, metal parts of fixtures and handling facilities should be grounded.
3. Transient voltages may cause permanent damage to the device if it is removed or inserted with the power on.
4. Do not apply signals to the input with the power supply off.
5. All unused input leads must be connected to either VSS or VDD (whichever is appropriate for the logic circuit involved).

DIODES AND RECTIFIERS

GENERAL PURPOSE DIODES RATINGS @ 25°C

Catalog Number	PIV (min) V	If A	Ir (max) @ Vr μ A	Vf (max) @ If V	Case Style
276-1101	50	1.000	10	1.6	DO41
276-1102	200	1.000	10	1.6	DO41
276-1103	400	1.000	10	1.6	DO41
276-1104	600	1.000	10	1.6	DO41
276-1114	1000	2.500	200	1.0	A1vm
276-1122	75	0.010	250nA	1.0	A1
276-1123*	60	0.085	15	1.0	A1
276-1141	50	3.000	500	1.2	A3q
276-1143	200	3.000	500	1.2	A3q
276-1144	400	3.000	500	1.2	A3q
276-1165†	40	1.000	5mA	0.55	A1

*GERMANIUM
†SCHOTTKY

ZENER DIODES—1 Watt

Catalog Number	Vz Volts \pm 10%	Iz @ mA	Zz @ Iz ohms max	Case Style
276-565	5.1	49	7	DO41
276-561	6.2	41	2	DO41
276-562	9.1	25	7	DO41
276-563	12.0	21	9	DO41
276-564	15.0	17	14	DO41

BRIDGE RECTIFIERS

Catalog Number	PIV (min) V	If (max) A	Case Style
276-1146	50	4	M532a
276-1151	50	1.4	M548
276-1152	100	1.4	M548
276-1161	50	1	Y1
276-1171	100	4	M532a
276-1173	400	4	M532a
276-1180	50	6	M532a
276-1181	250	6	M532a
276-1185	50	25	—

BIPOLAR TRANSISTORS

Catalog Number	Direct Commercial Equivalent	Mat.	Appli.	Polarity	Power Diss. f_T		V_{CB0} V	V_{CE0} V	V_{EB0} V	I_C Max	I_B Max	h_{FE}	@ V_{CE} V	@ I_C mA	I_{CBO} at max V_{CB}	Case Style
					@ 25°C Free Air	Typical MHz										
276-1604#	2N3906	S	G.P.	PNP	350mW	250	40	40	5	200mA	—	60	1	0.1	—	T092
276-1617#	2N2222	S	G.P.	NPN	500mW	250	60	30	5	800mA	—	35	10	0.1	—	T018
276-2009	MPS2222A	S	G.P.	NPN	625mW	300	75	40	6	800mA	—	50	10	1	10nA	T092
276-2016	MPS3904	S	S	NPN	625mW	300	60	40	6	200mA	—	100-300	10	1	50nA	T092
276-2017	TIP31	S	P	NPN	40W†	3	40	40	5	3A	1A	10-50	4	3A	300μA	T0220AB-2
276-2020	TIP3055	S	P	NPN	90W†	3	100	70	7	15A	7A	20-70	4	4A	1mA	T0220
276-2023	MPS2907	S	S	PNP	625mW	200	60	40	5	600mA	—	50	10	1	20nA	T092
276-2027	MJE34	S	P	PNP	90W†	3	40	40	5	10A	3A	20-100	4	3A	220μA	T0220
276-2030	2N3053	S	P	NPN	1W	100	60	40	5	700mA	—	50-250	10	150	—	T039
276-2041	2N3055	S	P	NPN	115W†	2.5	100	60	7	15A	7A	20-70	4	1A	—	T03
276-2043	MJ2955	S	P	PNP	150W†	4	100	60	7	15A	7A	70	10	0.5	0.7mA	T03
276-2055	2SC1308	S	SW	NPN	50W†	—	1500	400	6	7A	0.8A	3	2	4A	100μA	T03
276-2058	2N4401	S	G.P.	NPN	625mW	250 min.	40	60	6	600mA	—	100-300	10	1	0.1μA	T092
276-2068	TIP120	S	P*	NPN	65W†	0.1	60	60	5	5A	120mA	2500	3	500	0.2mA	T0220AB-2

NOTE: All ratings given are for 25°C except where otherwise noted. #—Archer-Pack †With heat sink

MATERIAL:

S—Silicon; G—Germanium

APPLICATION:

S—Switch

G.P.—General Purpose

P—Power amp/switch

RF/IF—RF/IF frequency

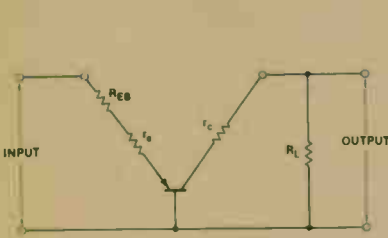
*—High Gain Darlington

UHF—Ultrahigh frequency

LL—Low Level

SW—TV Sweep

USEFUL INFORMATION



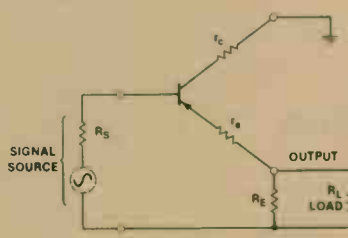
Parameters of Common-Base Circuit

Input Impedance $Z_{in} = r_{tr}$

Load Impedance $Z_L = R_L$ in parallel with input impedance of following stage

Current Gain $A_i = \alpha = \frac{\beta}{1 + \beta}$
(In practice, α is 0.95 to 0.995, or approximately 1.)

Voltage Gain $A_v = \frac{Z_L}{r_{tr}} = g_m Z_L$



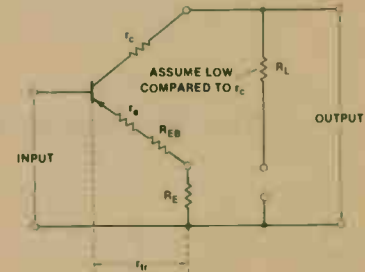
Parameters of Common-Collector Circuit

Input Impedance $Z_{in} = (\beta + 1)Z_L$
where, Z_L is R_L in parallel with R_E

Output Impedance $Z_{out} = \frac{R_S}{\beta + 1}$
where, R_S is the output impedance of the signal source.

Current Amplification $A_i \approx \beta$

Voltage Amplification $A_v = \text{Less than unity}$



Parameters of Common-Emitter Circuit

Input Impedance $Z_{in} = h_{re} r_{tr}$

Load Impedance $Z_L = R_L$ in parallel with input impedance of next stage

Current Gain $A_i = \frac{\Delta I_C}{\Delta I_B} = h_{fe}$
where, $h_{fe} = \beta = \frac{I_C}{I_B} = \frac{\alpha}{1 - \alpha}$

Voltage Gain $A_v = \frac{\Delta V_C}{\Delta V_B} = \frac{Z_L}{r_{tr}} = g_m Z_L$

Power Gain $A_p = \frac{V_{out} I_{out}}{V_{in} I_{in}} = \beta \frac{Z_L}{r_{tr}}$

SILICON N-CHANNEL JUNCTION FIELD EFFECT TRANSISTOR

MPF102
276-2062

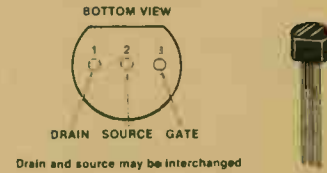
GENERAL DESCRIPTION

The MPF102 is designed for small signal applications. These include VHF amplifiers and mixers.

ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Drain-Source Voltage	25 V
Drain-Gate Voltage	25 V
Gate-Source Voltage	25 V
Gate Current	10 mA
Total Device Dissipation	310 mW
Operating Junction Temperature	125°C
Storage Temperature Range	-55 to +150°C

PIN CONNECTION



N-CHANNEL MOSFET TRANSISTOR

IRF511
276-2072

GENERAL DESCRIPTION

The efficient geometry and unique processing of the HEXFET design achieve very low on-state resistance combined with high transconductance and great device ruggedness.

This transistor also features all of the well established advantages of MOSFETs such as voltage control, freedom from second breakdown, very fast switching, ease of paralleling, and temperature stability of the electrical parameters.

FEATURES

- Fast switching
- Low drive current
- Ease of paralleling
- No second breakdown
- Excellent temperature stability

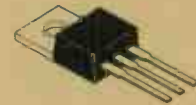
APPLICATIONS

- Switching power supplies
- Motor controls
- Inverters
- Choppers
- Audio amplifiers
- High energy pulse circuits

ABSOLUTE MAXIMUM RATINGS

Drain-Source Voltage, V_{DS}	60V
Drain-Gate Voltage ($R_{GS} = 1\text{ M}\Omega$), V_{DGR}	60V
Gate-Source Voltage, V_{GS}	$\pm 20\text{V}$
Continuous Drain Current, $I_D @ T_C \cong 36^\circ\text{C}$	3A
Pulsed Drain Current, I_{DM}	8A
Maximum Power Dissipation, P_D	20W
Linear Derating Factor	0.16W/K
Inductive Current, Clamped, I_{LM} (See Fig. 1) $L = 100\ \mu\text{H}$	8A
Operating Temperature Range, T_J	-55 to +150°C
Storage Temperature Range, T_{stg}	-55 to +150°C

PIN CONNECTION



SPECIAL TRANSISTORS (FET)

IRF511 276-2072

TEST CIRCUITS

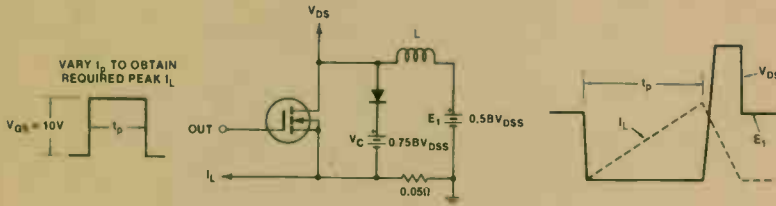


Figure 1—Clamped Inductive Test Circuit and Waveform

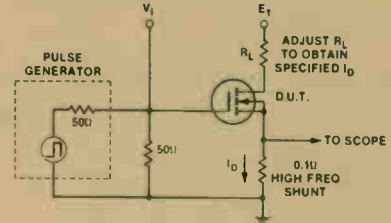
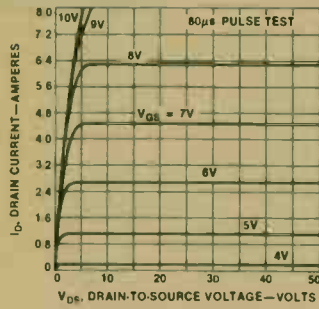
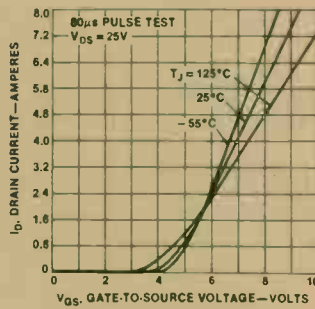


Figure 2—Switching Time Test Circuit

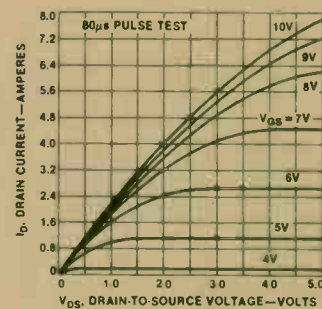
TYPICAL CHARACTERISTICS



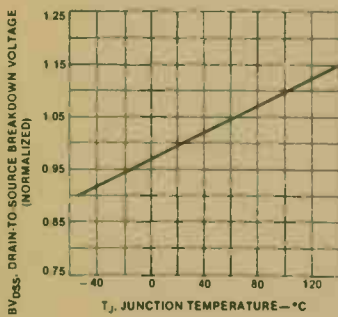
Output Characteristics



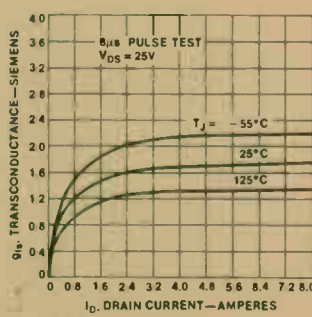
Transfer Characteristics



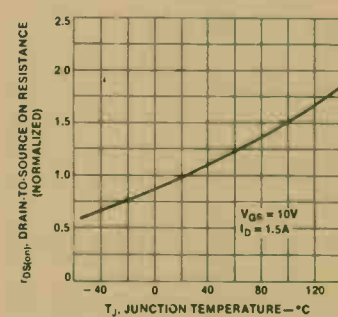
Saturation Characteristics



Breakdown Voltage vs Temperature



Transconductance vs Drain Current



Normalized On-Resistance vs Temperature

SILICON N-CHANNEL JUNCTION FIELD EFFECT TRANSISTOR

2N3819
276-2035

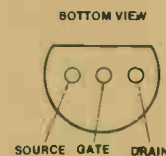
GENERAL DESCRIPTION

The 2N3819 is designed for general purpose small-signal applications. It features low capacitance between drain and gate terminals and an excellent high-frequency figure of merit. It achieves a low noise figure and good power gain with low crossmodulation and intermodulation.

ABSOLUTE MAXIMUM RATING ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Gate-Source Breakdown Voltage BV_{GSS}	40 V
Zero Gate Voltage Drain Current I_{DSS}	20 mA
Forward Transconductance g_{fs}	7.0 mmhos
Reverse Gate Leakage I_{GSS}	100 pA
"ON" Resistance r_{DS}	500 ohms
Pinch Off Voltage $V_{GS(OFF)}$	6.0 V
Output Conductance g_{os}	10 μ mmhos
Feedback Capacitance C_{fbs}	0.9 pF
Input Capacitance C_{iss}	4.0 pF
Power Gain G_{PS}	12 dB
Power Dissipation	360 mW

PIN CONNECTION

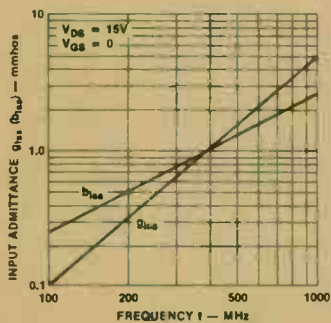


T092

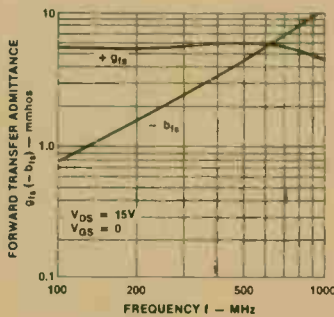


TYPICAL CHARACTERISTICS

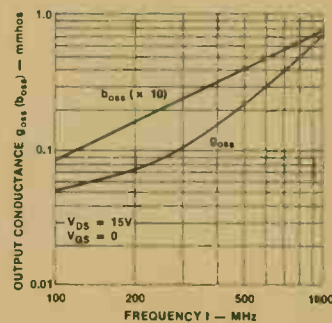
COMMON SOURCE



Input Admittance vs Frequency

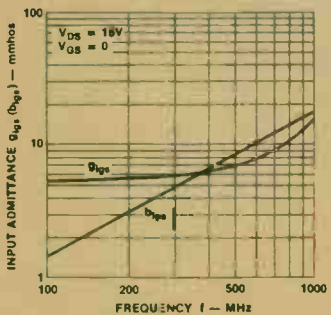


Forward Transfer Admittance vs Frequency

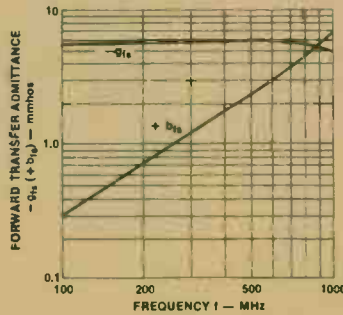


Output Conductance vs Frequency

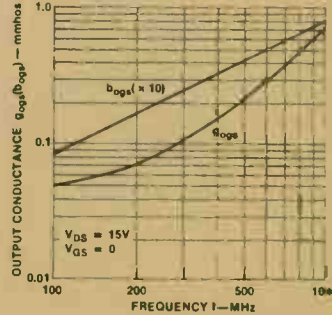
COMMON GATE



Input Admittance vs Frequency



Forward Transfer Admittance vs Frequency



Output Conductance vs Frequency

NOTES

TRANSIENT/SURGE ABSORBER

ERZ-C20DK201U
276-568
ERZ-C14DK201U
276-570

GENERAL DESCRIPTION

ZNR varistors are zinc oxide resistors whose resistance changes as a function of the applied voltage. The ZNR has a bilateral and symmetrical V-I characteristic curve and can therefore be used in circuits in place of back-to-back zener diodes. This gives your circuit clamping protection in either direction. The ZNR provides a highly reliable and economical way to protect against repeated high voltage transients and surges such as those produced by lightning, switching surges and noise spikes.

FEATURES

- Excellent clamping voltage characteristic and fast response time (< 50 nsec.) when subjected to impulse surges. Eliminates the discharge lag that is indicative of gap-type arrestors.
- Bilateral and symmetrical V-I characteristic curve. The ZNR can, therefore, be used both in AC and in DC circuits, for protection of either positive or negative transients.

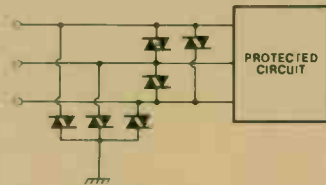
ABSOLUTE MAXIMUM RATING

Varistor Voltage (V-I @ 1mA DD) (185V 225V)	200V
Applied Voltage AC _{RMS}	130V
(DC)	170V
Clamping Voltage @ Test Current (8 × 20 μsec) V _C (V)	340V
IP (A) (276-568)	100A
IP (A) (276-570)	50A
Peak Pulse Current (8 × 20 μs) 1 Time (276-568)	6500A
(276-570)	4500A
Energy (J) (276-568)	70J
(276-570)	35J
Power (276-568)	1W
(276-570)	0.60W
Capacitance (pf @ 1kHz) (276-568)	2000pf
(276-570)	1000pf
Operating Ambient Temperature	-40° + 85°C
Storage Temperature	-40° + 125°C

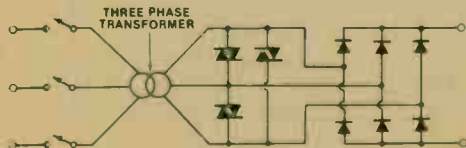
TYPICAL APPLICATIONS



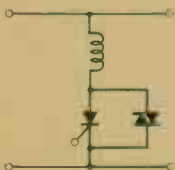
Single Phase Line Surge



Three Phase Line Surge



Transformer Inductive Surge by Primary Switch Off

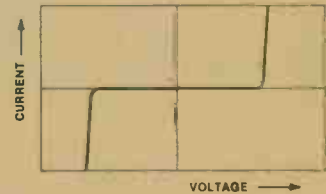


Solenoid Inductive Surge by Thyristor Switching



Solenoid Inductive Surge by Transistor Switching

PIN CONNECTION



V-I Characteristic Curve



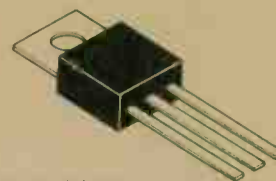
A: Original surge waveform
B: Clamping voltage using gap type arrestor
C: Clamping voltage using ZNR
τ: Discharge lag

Clamping Voltage Characteristics

SPECIAL PURPOSE DEVICES (SCR) (TRIAC)

276-1000
276-1020
276-1067

THYRISTORS



MU27

GENERAL DESCRIPTION

Thyristors and their trigger devices can take numerous forms, but they share these characteristics:

- They are "open circuits," capable of withstanding rated voltage until triggered.
- They become low-impedance current paths when triggered, and remain so, even after the trigger source is removed, until current through that path stops, or is reduced below a minimum "holding" level.

SCRs

Silicon-Controlled Rectifiers (SCRs) are Thyristors intended to switch load currents in one direction only, making them useful for DC and half-wave AC applications as well as full-wave applications, in which bidirectional current is routed in one direction through the SCR via a bridge rectifier.

TRIACs

Triacs are bidirectional Thyristors, in which a single trigger source turns the device on for load current in either direction. Because they do not require a bridge rectifier in order to handle full-wave AC, Triacs are useful in AC power applications that require full source power control capability to be applied to the load.

Catalog Number	I _{max} A	V _{max} V	I _{GT} (max) mA	V _{GT} (max) V	Case Style
276-1067	6	200	25	1.5	MU27
276-1020	6	400	25	1.5	MU27

Catalog Number	I _{max} A	V _{max} V	I _{GT} (max) mA	V _{GT} (max) V	Case Style
276-1000	6	400	50	2.5	MU27

OPTOELECTRONIC (LED) LED INDICATORS

Catalog Number	Direct Commercial Equivalent	Peak Wave Length nM	Color	Forward Voltage V _F (V)	Reverse Voltage V _R (V)	Max DC Forward Current I _F (ma)	Max Pwr Diss P _D (mw)	Case Style
276-012	EL336EGW	635/565	ORANGE/GREEN	2.8	5	30	100	2
276-018	PR5534S	700	RED	2.5	4	100	75	6
276-021	SLP-236B	565	YELLOW	2.8	3	30	70	7
276-022	SLP-236B	565	GREEN	2.8	3	30	70	7
276-025	R9-56	—	RED/GREEN	2.0	3.0	10	—	9
276-026	—	650	RED	—	3	50	100	4
276-033	TLR-147	700	RED	2.1	4	35	100	3
276-037	SLP-235B	565	GREEN	2.8	3	30	70	6
276-041	—	700	RED	1.75	3	70	140	5
276-065	369HHD	697	RED	1.8	5	20	75	10
276-066A	SLA-591LT3	660	RED	2.5 (@ 20 ma)	4	50	100	11
276-068	—	700	RED	1.9	—	30	—	8
276-069	—	560	GREEN	2.1	—	30	—	8
276-088	SLP-888A	660	RED	2.2 (@ 2 ma)	3	20	70	1



FIGURE 1
Super high brightness LED with holder.



FIGURE 2
This is a Round Type LED (5.0 mm). It uses two integral chips which are matched for uniform orange and green light output. The lens is white diffused type.



FIGURE 3
Miniature LED with diffused lens. This LED is compatible with most TTL and transistor circuits. It features a Fresnel lens design.



FIGURE 4
This LED features a frosted diffused lens in a plastic encapsulant. When the device is on, it appears as a large, soft light source, making it ideally suited for front panel applications.



FIGURE 5
This device is a jumbo LED with a diffused lens. It can be used in applications such as pilot and indicator lamps.



FIGURE 6
Subminiature LED with diffused lens. This device has solid state reliability and is compatible with most TTL and transistor circuits.

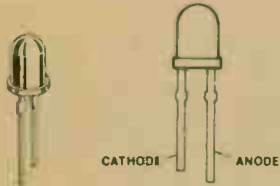


FIGURE 7
This is a frame type solid state LED with a diffused lens.

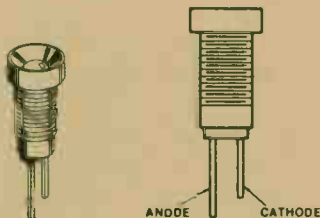


FIGURE 8
This is a subminiature LED indicator with polished chrome reflective holder.

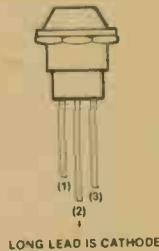


FIGURE 9
This is a three terminal LED. The light color radiates "red" when terminals 2 and 3 are used. Green light radiates when terminals 1 and 2 are used.



FIGURE 10
This is a jumbo red LED. It consists of two LED elements connected cathode to cathode in a 10mm diameter housing.



FIGURE 11
This is a high-brightness red LED. It is many times brighter than ordinary LEDs, yet still runs cool.

TIL906-1
276-143

**P-N GALLIUM ALUMINUM ARSENIDE
INFRARED- EMITTING DIODE**

GENERAL DESCRIPTION

This is a P-N Gallium Aluminum Arsenide Infrared-Emitting diode designed to emit near infrared radiation when forward biased. Its output is spectrally compatible with silicon sensors and has a high power output with a 20° beam angle.

ABSOLUTE MAXIMUM RATINGS

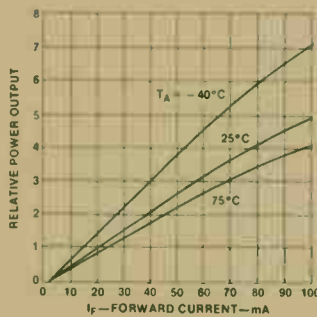
Forward Voltage (Static) (VF)	1.75 V
Reverse Voltage (VA)	3 V
Continuous Forward Current at (Or Below)	
25°C Free-Air Temperature	100 mA
Peak Forward Current (See Note 1)	2 A
Reverse Current (VR = 3 V)	100 μA
Radiant Power Output (PO) (IF = 20 mA)	1.5 MW
Emission Beam Angle Between	
Half-Intensity Points	20°
Wave Length at Peak Emission (IF = 20 mA)	880 nM
Operating Temperature Range	-40°C To 80°C
Storage Temperature Range	-40°C to 100°C

NOTE: 1 This value applies for $t_w \leq 10 \mu s$, $f \leq 1 \text{ kHz}$. See Figure 1.

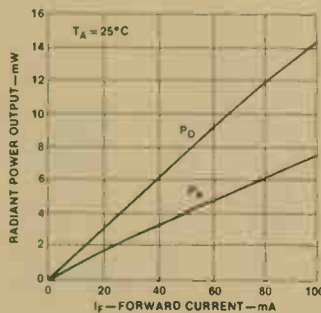
FEATURES

- High power output With a 20° beam angle
- Output spectrally compatible with silicon sensors

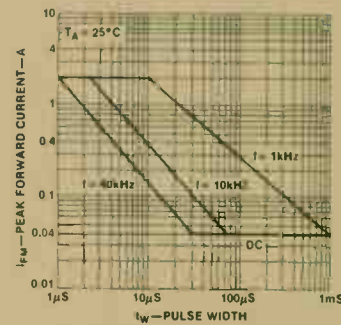
TYPICAL CHARACTERISTICS



Relative Power Output
vs
Forward Current

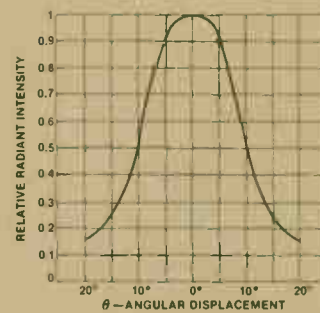


Radiant Power Output
vs
Forward Current

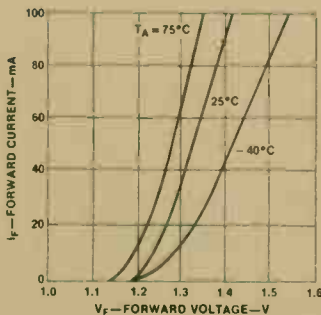


Peak Forward Current
vs
Pulse Width

Figure 1

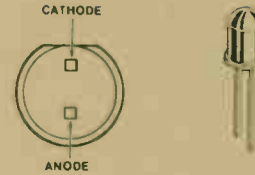


Relative Radiant Intensity
vs
Angular Displacement



Forward Conduction
Characteristics

PIN CONNECTION



MOC3010
276-134

OPTOCOUPLER TRIAC DRIVER



GENERAL DESCRIPTION

This device consists of a gallium-arsenide infrared emitting diode, optically coupled to a silicon bilateral switch and is designed for applications requiring isolated triac triggering, low-current isolated ac switching, high electrical isolation (to 7500 V peak), high detector standoff voltage, small size, and low cost.

INFRARED EMITTING DIODE MAXIMUM RATINGS

Reverse Voltage	3.0 volts
Forward Current—Continuous	50 mA
Total Power Dissipation @ TA = 25°C	100 mW

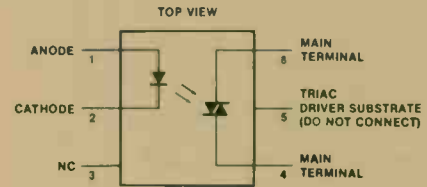
OUTPUT DRIVER MAXIMUM RATINGS

Off-State Output Terminal Voltage	250 Volts
On-State RMS Current TA = 25°C	100 mA
(Full Cycle, 50 to 60 Hz TA = 70°C)	50 mA
Peak Nonrepetive Surge Current	1.2 A
(PW = 10ms, DC = 10%)	
Total Power Dissipation @ TA = 25°C	300 mW
Derate above 25°C	4.0 mW/°C

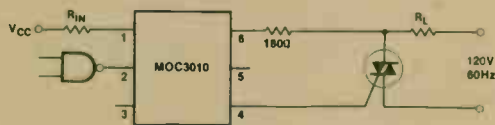
TOTAL DEVICE MAXIMUM RATINGS

Isolation Surge Voltage (1s)	7500 Vac
(Peak ac Voltage, 60 Hz, 5 Second Duration)	
Total Power Dissipation	330 mW
Junction Temperature Range	-40 to +100°C
Ambient Operating Temperature Range	-40 to +70°C
Storage Temperature Range	-40 to +150°C
Soldering Temperature (10s)	260°C

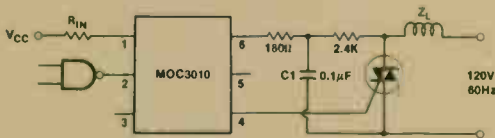
PIN CONNECTION



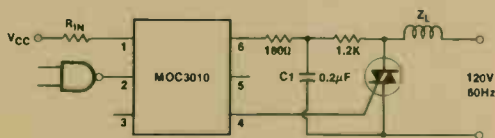
APPLICATIONS



Resistive Load

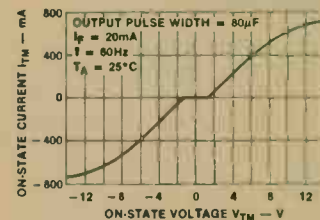


Inductive Load with Sensitive Gate Triac
(IGT < 15mA)

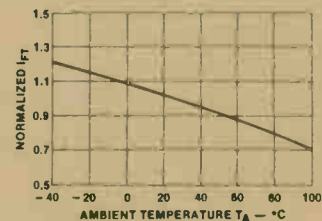


Inductive Load with Non-Sensitive Gate Triac
(15mA < IGT < 50mA)

TYPICAL CHARACTERISTICS



On-State Current vs On-State Voltage



Trigger Current vs Temperature



COMMON CATHODE DISPLAY

MAN74

276-075

GENERAL DESCRIPTION

This is a red 0.3 inch common cathode RHDP Display device with a brightness or luminous intensity of 125 μ cd @ 10mA.

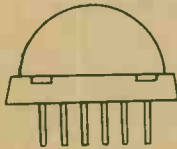
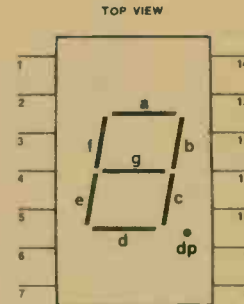
APPLICATIONS

- Instruments
- Test Equipment
- Office Machines
- Computers
- Automobiles
- Clocks/Radios
- Communication Equipment
- Calculators
- CB Radios

ABSOLUTE MAXIMUM RATINGS

Forward Voltage	..... 2 V
Forward Current	..... 20 mA
Power (P _D)	..... 700 mW
Wave Length	..... 660 nM
Brightness/Luminous Intensity @ 10mA	..... 125 μ cd

PIN CONNECTION



BIG HI-EFFICIENCY RED LED

EL-811HR

276-064

GENERAL DESCRIPTION

The 276-064 is a 0.79" diameter hi-efficiency Red LED. This device is ideal for a variety of applications where a large bright source is required.

ABSOLUTE MAXIMUM RATINGS

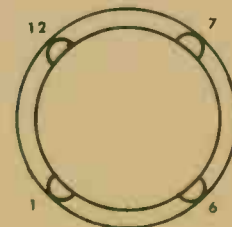
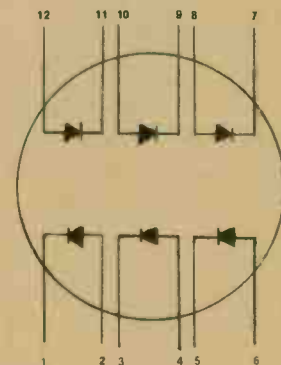
Reverse Voltage	..... 5 V
Reverse Current (V _r = 5V)	..... 10 μ A
Operating Temperature Range	..... -40°C To 85°C
Storage Temperature Range	..... -40°C To 100°C
Lead Soldering Temperature	..... 260°C For 5 Seconds
	[1.6mm (0.063 inch) From Body]
Spectral Line Half-Width ($\Delta\lambda$)	..... 45nm
Power Dissipation (P _d)	..... 100mW
Peak Forward Current (duty 1/10, 1KHz) I _f (Peak)	..... 160mA
Recommend Operating Current I _f (Rec)	..... 20mA
Average Luminous Intensity 1.2 (I _f = 10mA) I _v	..... 25 μ cd
Luminous Intensity Matching Ratio I _v -m	..... 2:1
Forward Voltage (I _f = 20mA) V _f	..... 2.8 V

FEATURES

- 0.79" (20.0mm) big LED
- Graphic stacking allowable
- Suitable for multiplex operation
- High luminous intensity
- Solid state reliability

PIN	FUNCTION
1	CATHODE
2	ANODE
3	CATHODE
4	ANODE
5	CATHODE
6	ANODE
7	CATHODE
8	ANODE
9	CATHODE
10	ANODE
11	CATHODE
12	ANODE

PIN CONNECTION



OPTOELECTRONIC (PHOTOCELL) (PHOTOTRANSISTOR)

TIL414
276-145

INFRARED PHOTOTRANSISTOR

GENERAL DESCRIPTION

The TIL414 is an NPN silicon phototransistor in a T-1 3/4 style case. It provides high speed and high photosensitivity, suitable for IR switching applications.

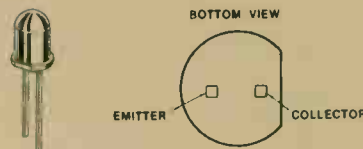
ABSOLUTE MAXIMUM RATINGS

Collector-Emitter Voltage	50 V
Emitter-Collector Voltage	7 V
Power Dissipation	50 mW
Operating Temperature	-40° to +100°C

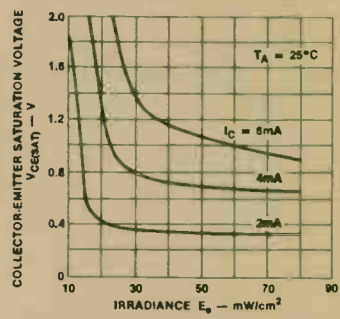
ELECTRICAL CHARACTERISTICS (Typical)

Dark Current ($V_{CE} = 30 V$)	25 nA
Light Current ($V_{CE} = 5 V \bullet E_0 = 20mW/cm^2$)	7 mA
Collector-Emitter Saturation	0.4 V
Rise Time	8 μs
Fall Time	6 μs

PIN CONNECTION



TYPICAL CHARACTERISTICS



Collector-Emitter Saturation Voltage vs Irradiance

276-116

CADMIUM SULPHIDE PHOTOCELL

GENERAL DESCRIPTION

A cadmium sulphide photo cell is a light variable resistor which is most sensitive in the green to yellow portion of the light spectrum. With it you can use light to control many electronic devices. Max. resistance .5 meg., min. resistance 100 ohms. max. voltage 170 V, max. wattage .2 watts, rugged epoxy case.

APPLICATIONS

- Night light
- Light control
- Burglar alarm
- Relay

SPECIFICATIONS

• Shape	Round
• Sensitive Area	.07 sq. in
• Weight	1.56 gms
• Resistance at 1 Ftc (2870 K)	1.7k Ohms
• Typical Resistance 100 Ftc (2870°K)	100 Ohms
• Resistance Dark Minimum (1 Minute)	0.5 Megohms

ABSOLUTE MAXIMUM RATINGS

Max. Applied Voltage (ac or dc)	170 V peak
Max. Power Dissipation at 25°C	2 watts
Power Derating	Linearly to 0 @ 75°C
Operating Temp. Range	-40 to +75°C

CONNECTIONS



NOTES

276-142

INFRARED EMITTER AND DETECTOR

GENERAL DESCRIPTION

The 276-142 is a pair consisting of an infrared photodetector and an infrared-emitting diode. The diode is capable of emitting radiant energy in the infrared region of the spectrum.

FEATURES

- Spectrally and mechanically matched
- High power efficiency . . . typically 5 percent at 25°C

ABSOLUTE MAXIMUM RATINGS

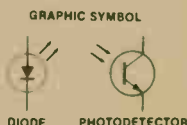
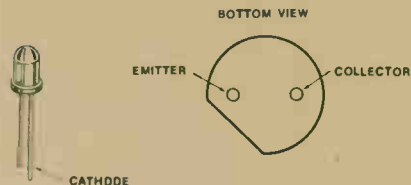
Photodetector

Collector-Emitter Voltage	20V
Collector Current	25mA
Continuous Device Dissipation at (or below) 25°C Free-Air Temperature	50mW
Operating Free-Air Temperature Range	-40 to +80°C
Storage Temperature Range	-40 to +85°C
Lead Temperature 1/16 Inch from Case for 5 Seconds	240°C

Infrared-Emitting Diode

Reverse Voltage	2V
Continuous Forward Current	40mA
Radiant Power Output	0.5mW
Wavelength at Peak Emission	915mm

PIN CONNECTION



276-124

2.5×5cm SILICON SOLAR CELL

GENERAL DESCRIPTION

A solar cell is a silicon semiconductor device which converts light energy directly to electricity. A typical 2.5×5cm cell will produce 0.42 volt and up to .18 amp of usable current. The power generated is affected by the load resistance (circuit powered by cell) strength of sunlight and temperature.

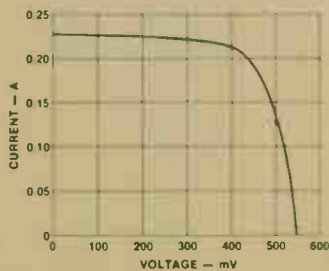
Be extremely careful when soldering leads. Use only a very fine wire (#26 or thinner) and use a small soldering iron (less than 50 watts). Solar cells may be connected in series to produce more voltage and in parallel for more current.

ABSOLUTE MAXIMUM RATINGS

Voltage (Open Circuit):	0.55V
Current (short circuit):	0.2A

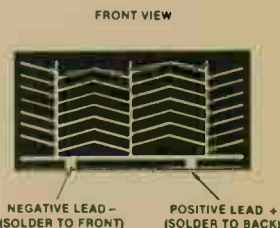
(Test conditions: Full sunlight at noon on a clear day at 25°C (76°F))

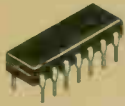
TYPICAL CHARACTERISTICS



Current vs Voltage

CONNECTIONS





QUAD TWO-INPUT NOR GATE

4001
276-2401

GENERAL DESCRIPTION

The 4001 quad 2-Input NOR gate is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. These complementary MOS logic gates find primary use where low power dissipation and/or high noise immunity is desired.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} < (V_{in} \text{ or } V_{out}) < V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

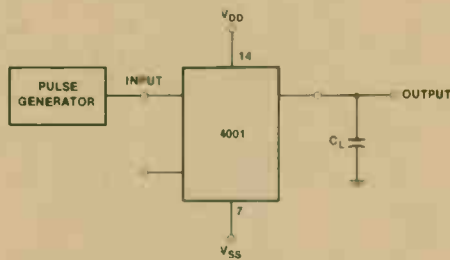
FEATURES

- Quiescent current = 0.5 nA typ/pkg @ 5 Vdc
- Noise immunity = 45% of V_{DD} typical
- Diode protection on all inputs
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Single supply operation—positive or negative
- High fanout > 50
- Input impedance = 10^{12} ohms typical
- Logic swing independent of fanout

ABSOLUTE MAXIMUM RATINGS (Voltages referenced to V_{SS})

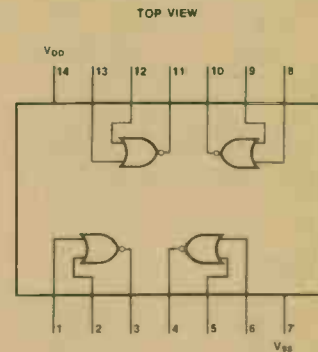
DC Supply Voltage	-0.5 to +16 Vdc
Input Voltage, All Inputs	-0.5 to $V_{DD} + 0.5$ Vdc
DC Current Drain per Pin	10 mA dc
Operating Temperature Range	-40 to +85 °C
Storage Temperature Range	-65 to +150 °C

SWITCH TIME TEST CIRCUIT

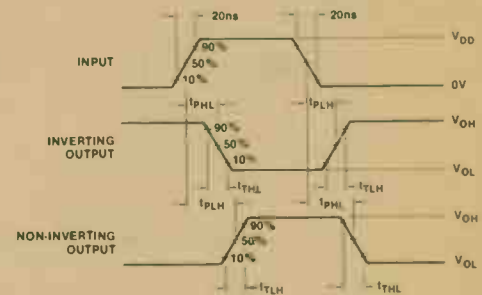


*All unused inputs of OR, NOR gates must be connected to V_{SS}

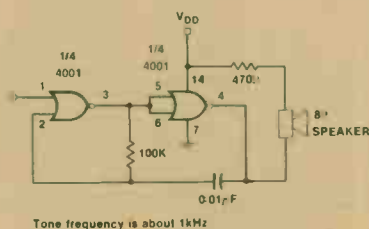
PIN CONNECTION



SYNC TIMING WAVEFORMS

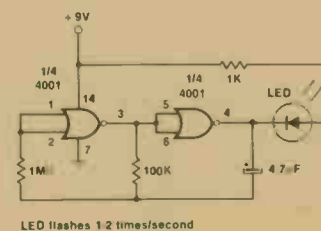


TYPICAL APPLICATIONS



Tone frequency is about 1kHz

Gated Tone Source



LED flashes 1/2 times/second

LED Flasher

4011
276-2411

QUAD TWO-INPUT NAND GATE

GENERAL DESCRIPTION

The 4011 is constructed with P and N channel enhancement mode devices in a single monolithic structure (Complementary MOS). Their primary use is where low power dissipation and/or high noise immunity is desired.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

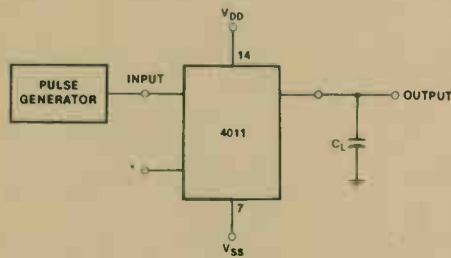
FEATURES

- Quiescent current = 0.5 nA typ/pkg @ 5 Vdc
- Noise immunity = 45% of V_{DD} typical
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Double diode protection on all inputs

ABSOLUTE MAXIMUM RATINGS
(Voltages referenced to V_{SS})

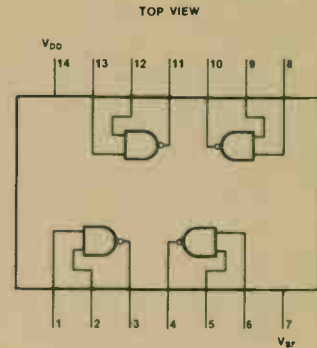
DC Supply	-0.5 to +16 Vdc
Input voltage, All Inputs	-0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-65 to +150°C

SWITCH TIME TEST CIRCUIT

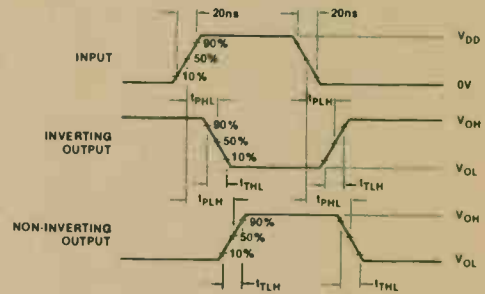


*All unused inputs of AND, NAND gates must be connected to V_{DD} .

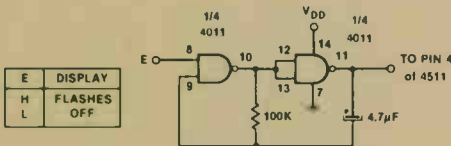
PIN CONNECTION



SYNC TIMING WAVEFORMS

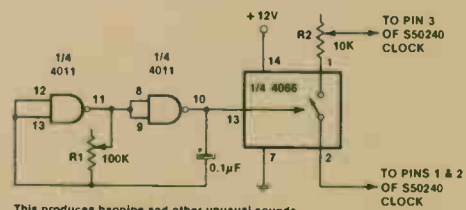


TYPICAL APPLICATIONS



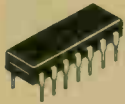
Display flashes once per second when E is high.

Display Flasher



This produces bagpipe and other unusual sounds. Adjust R1 to vary interruption rate.

Special Effects



DUAL TYPE D FLIP-FLOP

4013
276-2413

GENERAL DESCRIPTION

The 4013 dual type D flip-flop is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. Each flip-flop has independent Data (D), Direct Set (S), Direct Reset (R) and Clock (C) inputs and complementary outputs (Q and \bar{Q}). These devices may be used as shift register elements or as type T flip-flops for counter and toggle applications.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

FEATURES

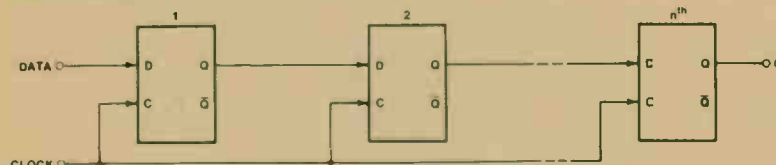
- Static operation
- Quiescent current = 2.0 nA/package typical @ 5 Vdc
- Noise immunity = 45% of V_{DD} typical
- Diode protection on all inputs
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Single supply operation
- Toggle rate = 4 MHz typical @ 5 Vdc
- Logic edge-clocked flip-flop design—logic state is retained indefinitely with clock level either high or low; information is transferred to the output only on the positive-going edge of the clock pulse.
- Capable of driving two-low-power TTL loads, one low-power schottky TTL load or two HTL loads over the rated temperature range.

ABSOLUTE MAXIMUM RATINGS

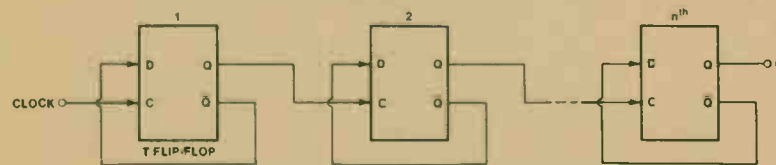
(Voltages referenced to V_{SS})

DC Supply Voltage	-0.5 to +16 Vdc
Input Voltage, All Inputs	-0.5 to $V_{DD} + 0.5$ Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-55 to +150°C

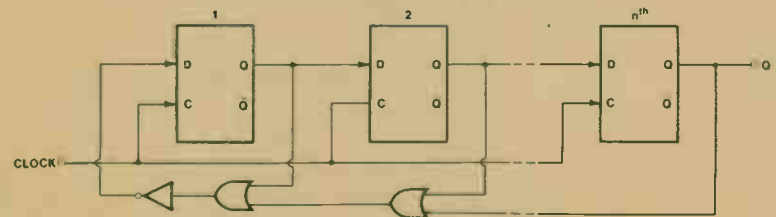
TYPICAL APPLICATIONS



n-Stage Shift Register

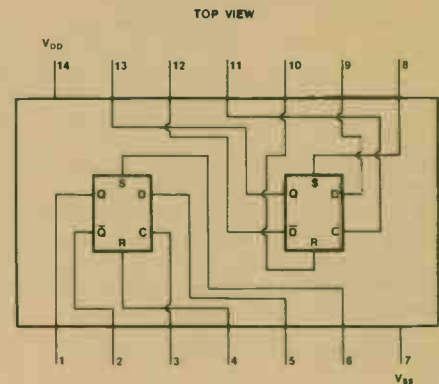


Binary Ripple Up-Counter (Divide-by- 2^n)



Modified Ring Counter (Divide-by-(n + 1))

PIN CONNECTION

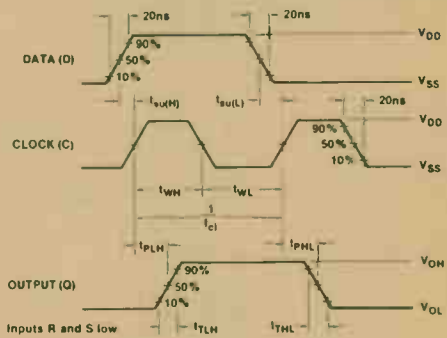


TRUTH TABLE

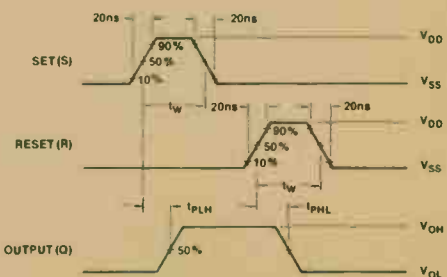
INPUTS				OUTPUTS	
Clock†	Data	Reset	Set	Q	\bar{Q}
—	L	L	L	L	H
—	H	L	L	H	L
—	X	L	L	No Change	No Change
X	X	H	L	L	H
X	X	L	H	H	L
X	X	H	H	H	H

X = Don't Care H = High Level
L = Low Level † = Level Change

SYNC TIMING WAVEFORMS



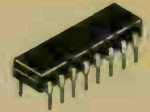
Data, Clock, and Output



Set, Reset, and Output

4017
276-2417

DECADE COUNTER/DIVIDER



GENERAL DESCRIPTION

The 4017 is a five-stage Johnson decade counter with built-in code converter. High-speed operation and spike-free outputs are obtained by use of a Johnson decade counter design. The ten decoded outputs are normally low, and go high only at their appropriate decimal time period. The output changes occur on the positive-going edge of the clock pulse. This part can be used in frequency division applications as well as decade counter or decimal decode display applications.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

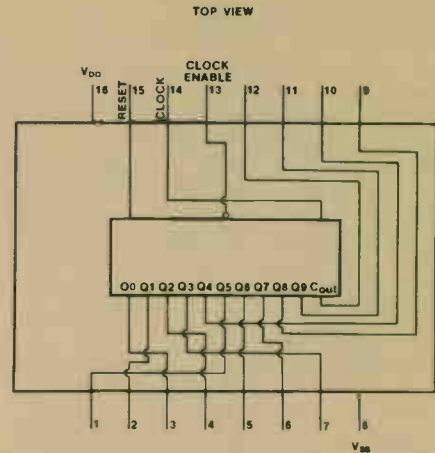
FEATURES

- Fully static operation
- DC clock input circuit allows slow rise times
- Carry out output for cascading
- 12 MHz (typical) operation @ $V_{DD} = 10 \text{ Vdc}$
- Quiescent current = 5.0 nA/package typical @ 5 Vdc
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Capable of driving two low-power TTL loads, one low-power schottky TTL load or two HTL loads over the rated temperature range

ABSOLUTE MAXIMUM RATINGS
(Voltages referenced to V_{SS})

DC Supply Voltage	-0.5 to +16 Vdc
Input Voltage, All Inputs	-0.5 to $V_{DD} + 0.5 \text{ Vdc}$
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-65 to +150°C

PIN CONNECTION

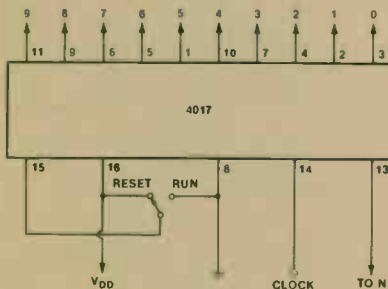


TRUTH TABLE (Positive Logic)

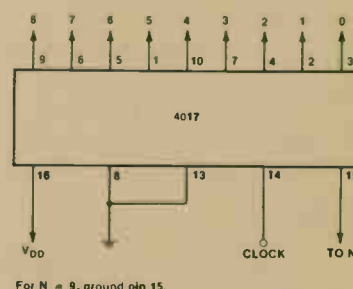
Clock	Clock Enable	Reset	Decode Output = n
L	X	L	n
X	H	L	n
X	X	H	QL
	L	L	n + 1
	X	L	n
X		L	n
1		L	n + 1

X = Don't Care If n < 5 Carry = "H",
Otherwise = "L"
L = Low Level H = High Level

TYPICAL APPLICATIONS



Count to N and Halt



Count to N and Recycle



INVERTING HEX BUFFER

4049
276-2449

GENERAL DESCRIPTION

The 4049 hex inverter/buffer is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. These complementary MOS devices find primary use where low power dissipation and/or high noise immunity is desired. These devices provide logic-level conversion using only one supply voltage, V_{CC} . The input-signal high level (V_{IH}) can exceed the V_{CC} supply voltage for logic-level conversions. Two TTL/DTL loads can be driven when the devices are used as CMOS-to-TTL/DTL converters ($V_{CC} = 5.0\text{ V}$, $V_{OL} \leq 0.4\text{ V}$, $I_{OL} \geq 3.2\text{ mA}$). Note that pin 16 is not connected internally on this device; consequently connections to this terminal will not affect circuit operation.

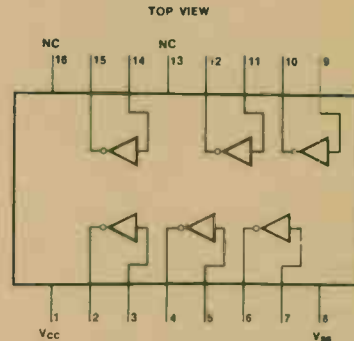
FEATURES

- High source and sink currents
- High-to-low level converter
- Quiescent current = 2.0 nA/package typical @ 5 Vdc
- Supply voltage range = 3.0 Vdc to 16 Vdc

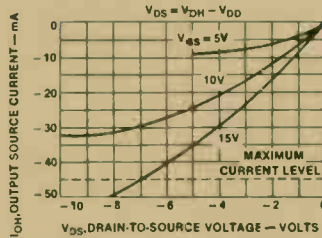
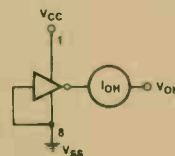
ABSOLUTE MAXIMUM RATINGS (Voltages referenced to V_{SS} , Pin 8)

DC Supply Voltage	-0.5 to +16 Vdc
Input Voltage, All Inputs	-0.5 to $V_{DD} + 0.5\text{ Vdc}$
DC Current Drain per Input Pin	10 mAdc
DC Current Drain per Output Pin	45 mAdc
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-65 to +150°C

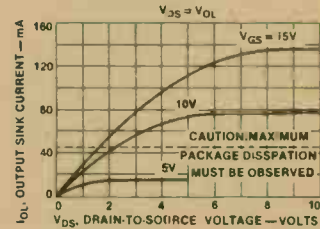
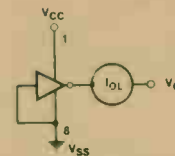
PIN CONNECTIONS



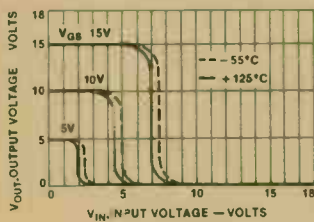
TYPICAL CHARACTERISTICS



Output Source Current vs Drain-To-Source Voltage

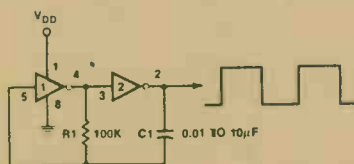


Output Sink Current vs Drain-To-Source Voltage



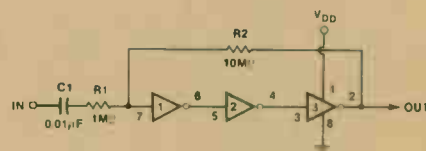
Output Voltage vs Input Voltage

TYPICAL APPLICATIONS



1,2,3 = 1/3 4049
Pulse Rate = $1/1.4R1C1$

Clock Pulse Generator



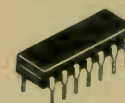
1,2,3 = 1/2 4049
Note that the Inverters are used in a LINEAR mode
Gain = $R2/R1$

Linear IOX Amplifier

LS7210

276-1307

PROGRAMMABLE DIGITAL DELAY TIMER



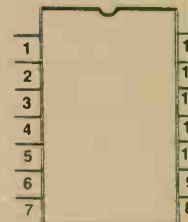
GENERAL DESCRIPTION

This device is a monolithic, ion implanted MOS programmable digital timer that can generate a delay in the range of 6ms to infinity. The delay is programmed by 5 binary weighted input bits in combination with the oscillator provided. The chip can be operated into 4 different modes: delayed operate, delayed release, dual delay and one-shot. These modes are selected by the control inputs A & B.

FEATURES

- Programmable Delay from Miliseconds to Hours
- Can be Cascaded for Sequential Events or Extended Delay
- Single Power Supply Operation + 4.75V to 15V
- On Chip Oscillator
- Alternate Clock Input
- On Chip Power On Reset
- Internal Pull-ups on Inputs
- Frequency Ranges to 160 KHz
- CMOS Type Noise Immunity on All Inputs
- All Inputs are CMOS, PMOS & TTL Compatible

PIN CONNECTION

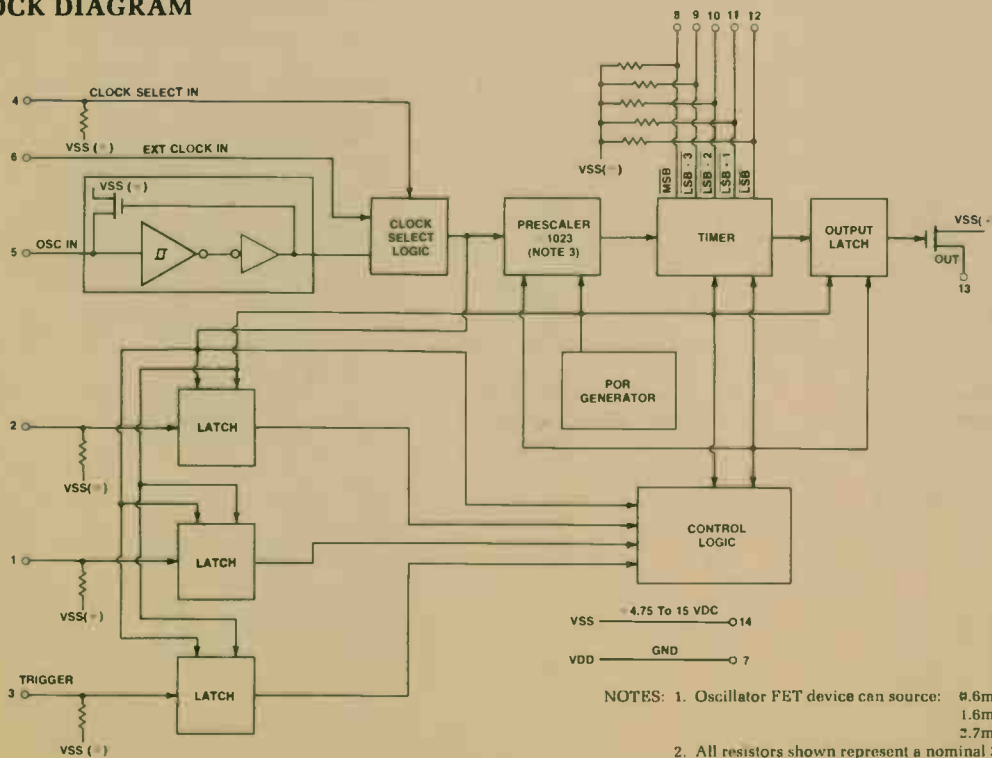


PIN	FUNCTION
1	B
2	A
3	Trigger
4	Clock select
5	OSC
6	External clock
7	V _{DD} (-)
8	MSB
9	LSB + 3
10	LSB + 2
11	LSB + 1
12	LSB
13	Out
14	V _{SS} (+)

ABSOLUTE MAXIMUM RATINGS

Voltage referenced to V_{DD}
 DC supply voltage (V_{SS}) + 18V
 Voltage (any pin) 0 to V_{SS} + .3V
 Operating temperature (TA) - 25 to + 70°C
 Storage temperature T_S + g - 65 to + 150°C

BLOCK DIAGRAM



- NOTES: 1. Oscillator FET device can source: 8.6mA @ V_{GS} = +5V
 1.6mA @ V_{GS} = +10V
 2.7mA @ V_{GS} = +15V
 2. All resistors shown represent a nominal 3 μa constant current source.
 3. 1023 is standard. Any number from 1 to 1022 can be mask programmed.

INPUT/OUTPUT DESCRIPTION

Oscillator Input

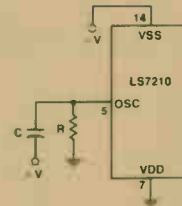
The frequency of the internal oscillator is set by an RC network connected to the OSC input, as shown in Item 1. The R and C values for different frequencies is given in Item 2.

External Clock Input

If the internal oscillator is not used, the chip can be driven by an external clock applied to this input.

Clock Select Input

The internal oscillator or the external clock is selected by the proper logical level applied to this input. A logic "1" selects the external clock and logic "0" selects the internal oscillator. The clock select input has an internal pull up resistor.



Item 1 — LS7210 Oscillator Connection

Trigger Input

A positive or a negative transition at the trigger input initiates a delay in turning on or off the output. A negative transition always turns on the output with or without delay depending on the selected mode. A positive transition at the trigger input always turns off the output (with the exception of one-shot mode) with or without delay depending on the selected mode. The delay is a function of the oscillator frequency (or the external clock frequency) and the weighting factor programmed at the weighting factor inputs. The trigger input is clocked into the input latch with the negative edge of the external clock. All timings begin after the latch has been set up. The trigger input has an internal pull-up resistor.

**ITEM 2
OSCILLATOR FREQUENCY COMPONENT
SELECTION CHART***

RESISTANCE R, (K)	CAPACITY C(pF)	FREQ. @V _{SS} + 5V	FREQ. @V _{SS} + 10V	FREQ. @V _{SS} + 15V
47	100	128 KHz	139 KHz	185 KHz
	200	79 KHz	83 KHz	85 KHz
	500	37 KHz	37 KHz	36 KHz
	1000	22 KHz	21 KHz	20 KHz
	50000	610 Hz	500 Hz	475 Hz
470	100	15 KHz	16 KHz	16.5 KHz
	200	9 KHz	9.5 KHz	9.5 KHz
	500	4 KHz	4 KHz	4 KHz
	1000	2.4 KHz	2 KHz	2 KHz
	50000	63 Hz	51 Hz	47 Hz
2000	100	4.2 KHz	4.7 KHz	5 KHz
	200	2.5 KHz	2.7 KHz	2.8 KHz
	500	1.1 KHz	1.1 KHz	1.1 KHz
	1000	670 Hz	617 Hz	610 Hz
	50000	17 Hz	14 Hz	14 Hz
10000	10uF	.02 Hz	.015 Hz	.013 Hz

*NOTE: Accuracy within 5% from chip to chip.

LS7210 276-1307

Weighting Factor Input, LSB-MSB

A delay from the trigger input to the output is programmed by applying 1's complement binary weighted numbers at these 5 inputs. The exact equation for the delay is:

$$\text{Delay} = \frac{(1 + 1.023N)}{f} \text{ See Block Diagram Note 3}$$

Where f = The oscillator frequency and N = Weighting factor. All the weighting factor inputs have internal pull-up resistors.

**ITEM 5
WEIGHTING BITS ASSIGNMENT**

Input	Value
LSB	1
LSB + 1	2
LSB + 2	4
LSB + 3	8
MSB	16

EXAMPLE: For a weighting factor of 25, inputs MSB, LSB + 3, and LSB should be programmed to logic "0".

Mode Select Inputs A&B

The chip can be programmed to operate in 4 different modes by applying the logic levels to inputs A&B as indicated in Item 3. The mode select inputs are clocked into the input latches with the negative edge of the external clock. These inputs should not be changed while a delay timing is in progress. The mode select inputs have internal pull-ups.

**ITEM 3
MODE SELECTION**

CONTROL		MODE
A	B	
1	1	Dual Delay
1	0	Delayed Release
0	1	Delayed Operate
0	0	One Shot

MODE DEFINITION: (See ITEM 4)

Dual Delay Mode

This is the Default Mode when the inputs A&B are left unprogrammed. The function of the Dual Delay mode is to provide a time delay on both the turn-on and turn-off of the output. Once turned on, the output will remain on as long as the trigger input is logic "0". Once turned off, the output will remain off as long as the trigger input is a logic "1".

Delayed Operate Mode

This mode causes a retriggerable delay in turning the output on in response to a negative edge at the trigger input. The output is turned off without delay in response to a positive transition at the trigger input.

Delayed Release Mode

This mode causes a retriggerable delay in turning off the output whenever there is a positive transition at the trigger input. The output is turned on without delay in response to a negative transition at the trigger input.

One-Shot Mode

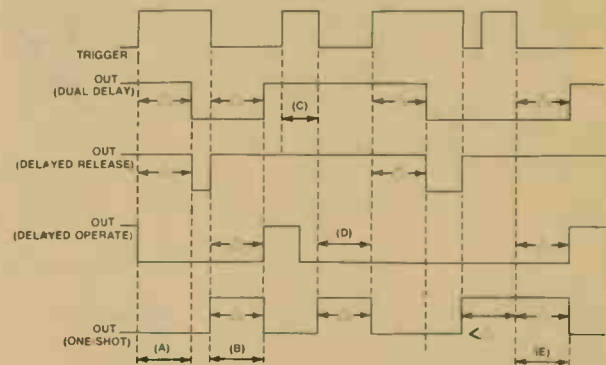
In this mode, the chip functions like a retriggerable monostable multi-vibrator. The output is turned on whenever there is a negative transition at the trigger input. At the end of the programmed delay, the output is turned off automatically. If there is a negative transition at the trigger input before the delay is over, the delay is restarted. A positive transition at the trigger input has no effect on the output in this mode.

Output

The output is an open drain FET. To obtain proper switching of the output between logic "0" and "1" levels, an external pull down resistor to V_{DD} must be used. If the output is used only as a current source, no such pull down is needed. The output is logically inverted with respect to the trigger input.

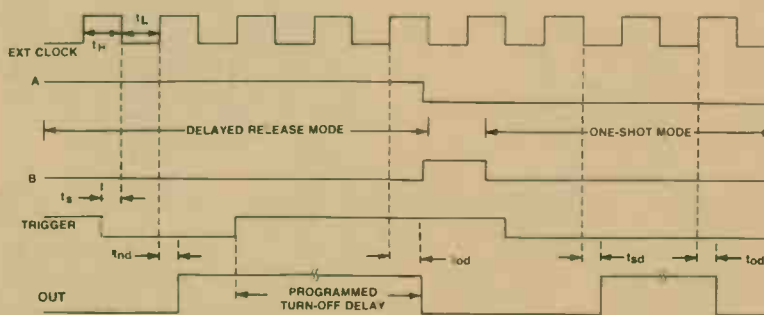
SWITCHING CHARACTERISTICS:

Oscillator Frequency	(f_{osc})	.01 Hz TO	100K Hz
External Clock Frequency	(f_{ext})	DC TO	160K Hz
External Clock Positive Pulse Width	(t_{hp})		3us
External Clock Negative Pulse Width	(t_{ln})	—	3us
A, B and Trigger Input Set-Up Time	(t_s)	—	200 TO 300ns
EXT Clock to Output Delay (turn-on delay in delayed release mode and turn-off delay in delayed operate mode)	(t_{nd})	—	700 TO 1000ns
EXT Clock to Output Delay at the End of Time Out	(t_{od})	—	1 TO 1.6 us
EXT Clock to Output Delay (turn-on Delay in One Shot Mode)	(t_{sd})	—	400 TO 600ns



Item 4 — Mode Definition Timing Diagram

- A. Turn-off delay in "Dual Delay" and "Delayed Release" mode.
- B. Turn-on delay in "Dual Delay" and "Delayed Operate" mode; one-shot period in "one-shot" mode.
- C. Output remains on in "Delayed Release" and "Dual Delay" modes due to negative "trigger" transition before the turn-off delay is over.
- D. Output remains off in "Delayed Operate" mode due to positive trigger transition before the turn-on delay is over.
- E. One-Shot period extended by re-triggering.
- Δ is the programmed delay.

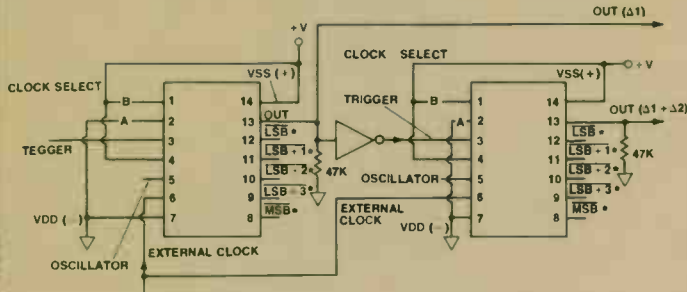


Timing Diagram

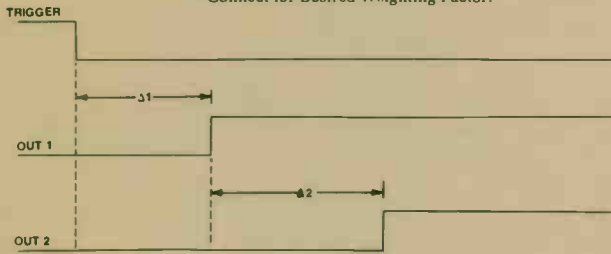
1. A, B and trigger inputs are clocked into the input latches with the negative edge of the ext. clock.
2. In all modes except One-Shot, the output changes with the positive transition of the ext. clock. In One-Shot mode the output is turned on with the negative transition and turned off with the positive transition of the ext. clock.

LS7210 276-1307

TYPICAL APPLICATIONS

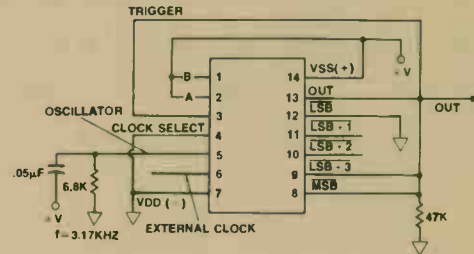


*Connect for Desired Weighting Factor.

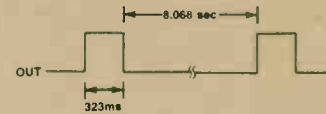


Sequential Turn On

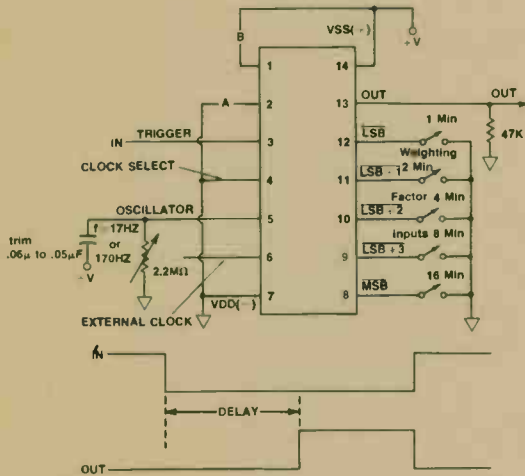
Output of LS7210 is open drain P.E.T. Some load to ground is required to cause output to go negative.



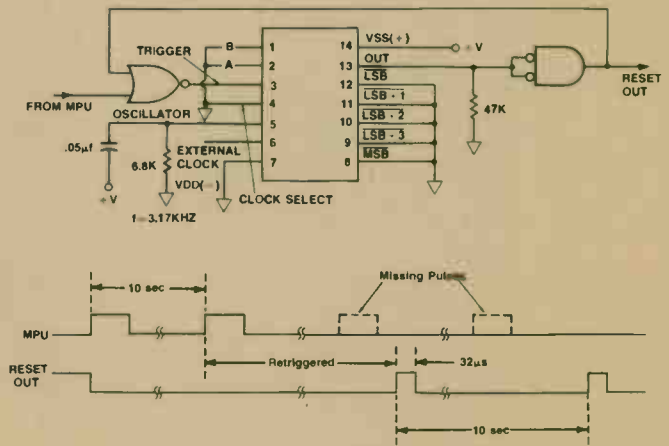
Inputs A, B, in dual-delay mode. For symmetrical flasher tie pins 8, 9, 10, 11 & 12 to fixed weighting factor.



Unsymmetrical Flasher

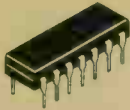


LS7210 In Delayed Operate Mode to Achieve One to 31 Minute Delay



Auto Reset Watchdog Circuit

Inputs A, B are in One Shot mode. In this application an output is generated whenever the periodic sampling signal from the MPU is interrupted.



QUAD TWO-INPUT NAND GATE

7400
276-1801

GENERAL DESCRIPTION

This device employs TTL logic to achieve high speed at moderate power dissipation. It provides the basic functions used in the implementation of digital integrated circuit systems.

For best noise immunity and switching speed, unused inputs should not be left floating, but should be held between 2.4 V and the absolute maximum input voltage.

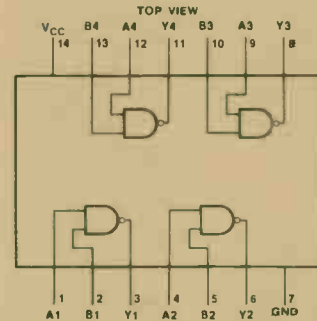
Two possible ways at handling unused inputs are:

- (1) Connect unused inputs to V_{CC} . For all multi-emitter conventional TTL inputs, a 1 to 10K ohm current limiting series resistor is recommended, to protect against V_{CC} transients that exceed 5.5 V.
- (2) Connect the unused input to the output of an unused gate that is forced high.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	5.25 V
Input High Voltage	2.0 V
Input Low Voltage	0.8 V
Input Clamp Diode Voltage ($V_{CC} = 5.0 V, I_{IN} = -12 mA$)	-1.5 V
Input High Current ($V_{CC} = Max., V_{IN} = 2.4 V$)	40 μA
Input Low Current ($V_{CC} = Max., V_{IN} = 0.4 V$)	-1.6 mA
Operating Temperature	0 to +70°C

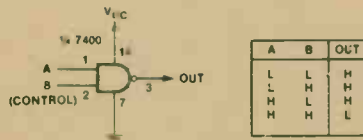
PIN CONNECTION



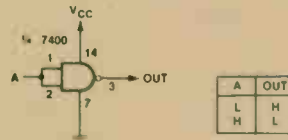
TRUTH TABLE

$$Y = \overline{AB}$$

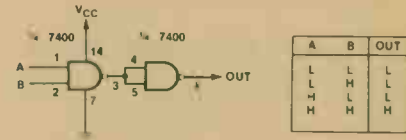
TYPICAL APPLICATIONS



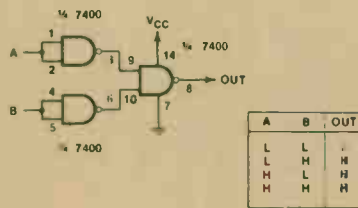
Control Gate



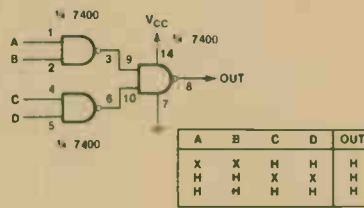
Inverter



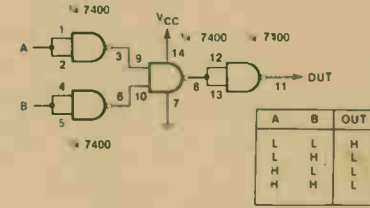
AND Gate



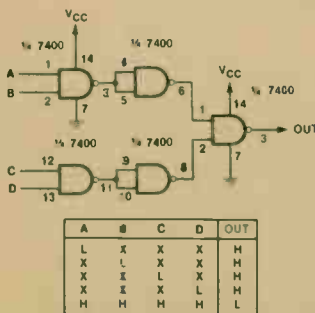
OR Gate



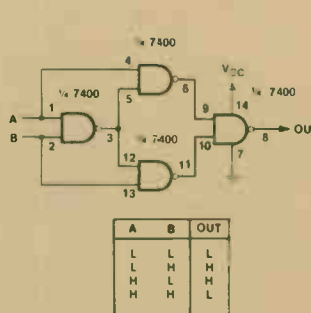
AND-OR Gate



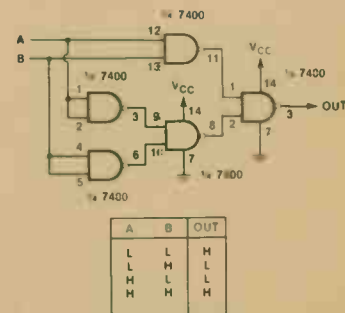
NOR Gate



4-Input NAND Gate



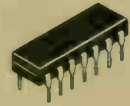
Exclusive-OR Gate



Exclusive-NOR Gate

7404
276-1802

HEX INVERTER



GENERAL DESCRIPTION

This device employs TTL logic to achieve high speed at moderate power dissipation. This hex inverter provides the basic functions used in the implementation of digital integrated circuit systems.

For best noise immunity and switching speed, unused inputs should not be left floating, but should be held between 2.4 V and the absolute maximum input voltage.

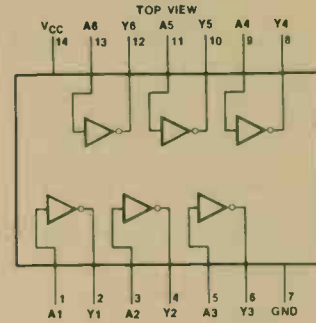
Two possible ways of handling unused inputs are:

- (1) Connect unused inputs to V_{CC} . For all multi-emitter conventional TTL inputs, a 1 to 10K ohm current limiting series resistor is recommended, to protect against V_{CC} transients that exceed 5.5 V.
- (2) Connect the unused input to the output of an unused gate that is forced high.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	5.25 V
Input High Voltage	2.0 V
Input Low Voltage	0.8 V
Input Clamp Diode Voltage ($V_{CC} = 5.0 V, I_{IN} = -12 mA$)	-1.5 V
Input High Current ($V_{CC} = Max., V_{IN} = 2.4 V$)	40 μA
Input Low Current ($V_{CC} = Max., V_{IN} = 0.4 V$)	-1.6 mA
Operating Temperature	0 to +70°C

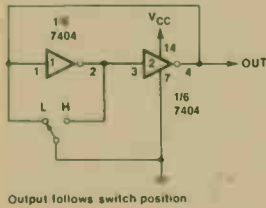
PIN CONNECTION



TRUTH TABLE

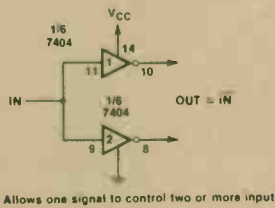
$Y = \bar{A}$

TYPICAL APPLICATIONS



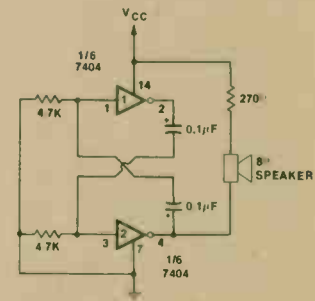
Output follows switch position

Bouncefree Switch



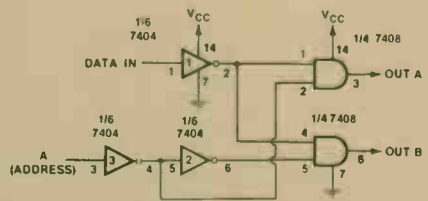
Allows one signal to control two or more inputs

Universal Expander



Output tone is 4kHz

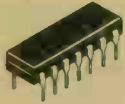
Audio Oscillator



This circuit steers the input bit to the output selected by the address

DATA	ADDRESS	OUT A	OUT B
L	L	L	H
H	L	H	H
L	H	H	L
H	H	H	H

1-of-2 Demultiplexer



QUAD TWO-INPUT AND GATE

7408
276-1822

GENERAL DESCRIPTION

This device employs TTL logic to achieve high speed at moderate power dissipation. These gates provide the basic functions used in the implementation of digital integrated circuit systems.

For best noise immunity and switching speed, unused inputs should not be left floating, but should be held between 2.4 V and the absolute maximum input voltage.

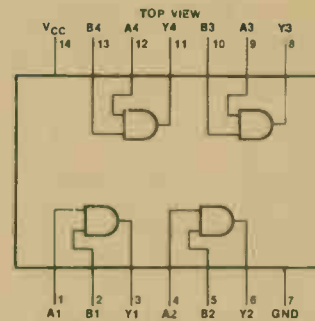
Two possible ways at handling unused inputs are:

- (1) Connect unused inputs to V_{CC} . For all multi-emitter conventional TTL inputs, a 1 to 10K ohm current limiting series resistor is recommended, to protect against V_{CC} transients that exceed 5.5 V.
- (2) Connect the unused input to the output of an unused gate that is forced high.

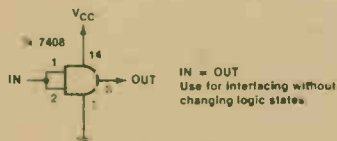
ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	5.25 V
Input High Voltage	2.0 V
Input Low Voltage	0.8 V
Input Clamp Diode Voltage ($V_{CC} = 5.0 V, I_{IN} = -12 mA$)	-1.5 V
Input High Current ($V_{CC} = Max., V_{IN} = 2.4 V$)	40 μA
Input Low Current ($V_{CC} = Max., V_{IN} = 0.4 V$)	-1.6 mA
Operating Temperature	0 to +70°C

PIN CONNECTION

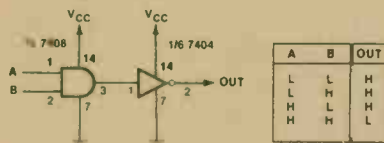


TYPICAL APPLICATIONS



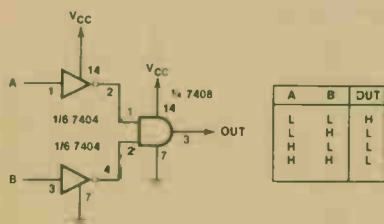
IN = OUT
Use for interlacing without changing logic states.

AND Gate Buffer



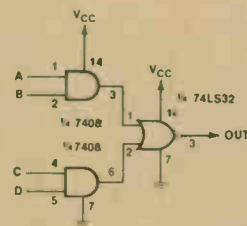
A	B	OUT
L	L	H
L	H	H
H	L	H
H	H	L

NAND Gate



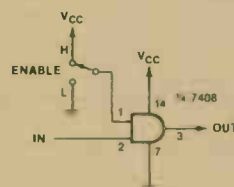
A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	L

NOR Gate



A	B	C	D	OUT
X	X	X	X	H
L	L	X	X	L
L	L	L	L	L

AND-OR-Invert Gate



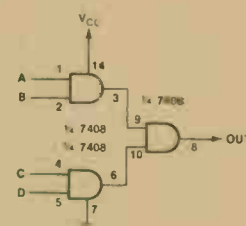
IN	E	OUT
L	L	L
L	H	L
H	L	L
H	H	H

E = ENABLE

Digital Transmission Gate

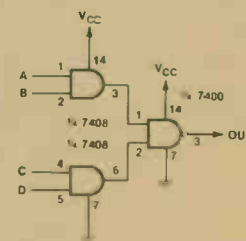
TRUTH TABLE

$Y = AB$



A	B	C	D	OUT
H	H	H	H	H
X	X	X	X	L

4-Input AND Gate

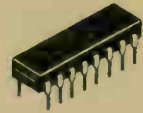


A	B	C	D	OUT
H	H	H	H	L
X	X	X	X	L

4-Input NAND Gate

7447
276-1805

BCD TO SEVEN-SEGMENT DECODER/DRIVER



GENERAL DESCRIPTION

This versatile binary-coded-decimal 7-segment display driver fulfills a wide variety of requirements for most active low (common anode) light emitting diodes (LED) or lamp displays. It fully decodes a 4-bit BCD input into a number from 0 through 9 in the standard 7-segment display format, and BCD numbers above 9 into unique patterns that verify operation. All circuits operate off of a single 5.0V supply. The output will withstand 15 Volts at a maximum leakage current of 250µA.

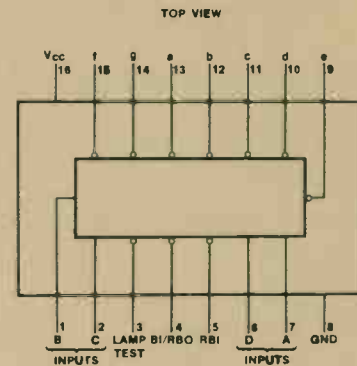
FEATURES

- Lamp-test input
- Leading trailing zero suppression (RBI and RBO)
- Blanking input that may be used to modulate lamp intensity or inhibit output
- TTL and DTL compatible
- Input clamping diodes
- Open collector outputs drive indicators directly

ABSOLUTE MAXIMUM RATINGS

Supply Voltage V _{CC}	4.75 — 5.25 V
Continuous Voltage at Outputs a-g	Max. 15 V
Logic 1 Input Voltage	Min. 2 V
Logic 0 Input Voltage	Max. 0.8 V
Logic 0 Output Voltage BI/RBO	Max. 0.4 V
Logic 1 Output Voltage at BI/RBO	Min. 2.4 V
Power	320 mW

PIN CONNECTION



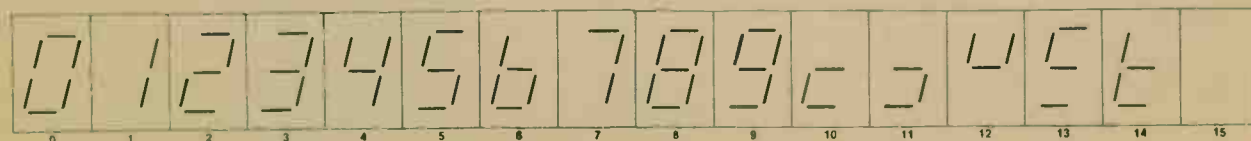
TRUTH TABLE

DECIMAL OR FUNCTION	INPUTS						BI/RBO†	OUTPUTS							NOTE
	LT	RBI	D	C	B	A		a	b	c	d	e	f	g	
0	H	H	L	L	L	L	H	L	L	L	L	L	L	H	
1	H	X	L	L	L	H	H	H	L	L	H	H	H	H	
2	H	X	L	L	H	L	H	L	L	H	L	L	H	L	
3	H	X	L	L	H	H	H	L	L	L	L	H	H	L	
4	H	X	L	H	L	L	H	H	L	L	H	H	L	L	
5	H	X	L	H	L	H	H	L	H	L	L	H	L	L	
6	H	X	L	H	H	L	H	H	H	L	L	L	L	L	
7	H	X	L	H	H	H	H	L	L	L	H	H	H	H	
8	H	X	H	L	L	L	H	L	L	L	L	L	L	L	1
9	H	X	H	L	L	H	H	L	L	L	H	H	L	L	
10	H	X	H	L	H	L	H	H	H	H	L	L	H	L	
11	H	X	H	L	H	H	H	H	H	L	L	H	H	L	
12	H	X	H	H	L	L	H	H	L	H	H	L	L	L	
13	H	X	H	H	L	H	H	L	H	H	L	H	L	L	
14	H	X	H	H	H	L	H	H	H	H	L	L	L	L	
15	H	X	H	H	H	H	H	H	H	H	H	H	H	H	
BI	X	X	X	X	X	X	L	H	H	H	H	H	H	H	2
RBI	H	L	L	L	L	L	L	H	H	H	H	H	H	H	3
LT	L	X	X	X	X	X	H	L	L	L	L	L	L	L	4

H = High Level. L = Low Level. X = Irrelevant

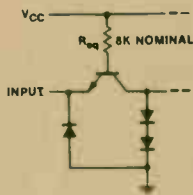
- Notes: 1. The blanking input (BI) must be open or held at a high logic level when output functions 0 thru 15 are desired. The ripple-blanking input (RBI) must be open or high, if blanking of a decimal zero is not desired.
2. When a low logic level is applied directly to the blanking input (BI), all segment outputs are H regardless of the level of any other input.
3. When ripple-blanking input (RBI) and inputs A, B, C, and D are at a low level with the lamp-test input high, all segment outputs go H and the ripple-blanking output (RBO) goes to a low level (response condition).
4. When the blanking input/ripple blanking output (BI/RBO) is open or held high and a low is applied to the lamp test input, all segment outputs are L.

† BI/RBO is wire-AND logic serving as blanking input (BI) and/or ripple-blanking output (RBO).

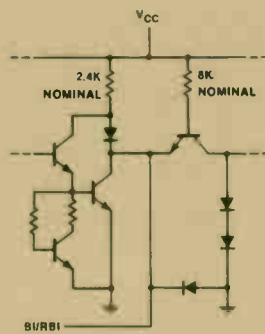


Numerical Designations and Resultant Displays

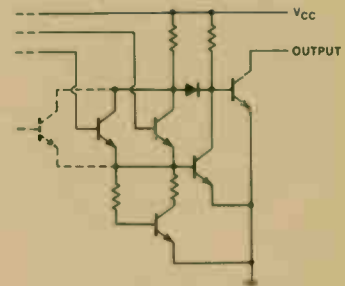
INPUT/OUTPUT EQUIVALENTS



Each Input Except BI/RBO

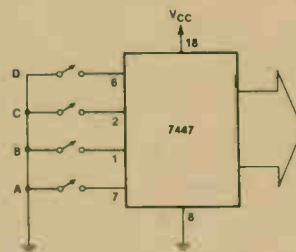


BI/RBO Input

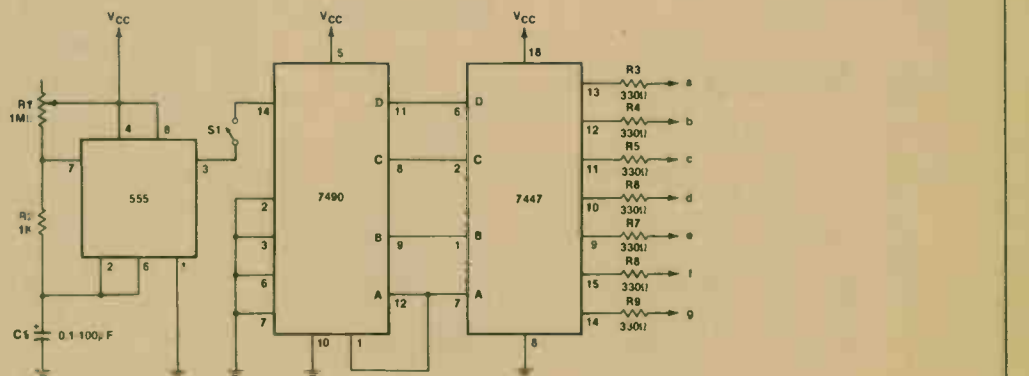


Typical of Outputs a Thru g

TYPICAL APPLICATIONS



Manually Switched Display

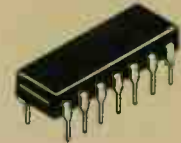


Close S1 to start timing cycle.
Calibrate 555 for 1 pulse (count) per second or 1 count per minute by adjusting R1

0-9 Second/Minute Timer

7490
276-1808

DIVIDE BY 2 OR 5, BCD COUNTER



GENERAL DESCRIPTION

This monolithic BCD counter contains four master-slave flip-flops and additional gating to provide a divide-by-two counter and a three-stage binary counter for which the count cycle length is divide-by-five.

This counter has a gated zero reset and gated set-to-nine inputs for use in BCD nine's complement applications.

To use maximum count length, the B input is connected to the Q_A output. The input count pulses are applied to input A and the outputs are as described in the appropriate truth table. A symmetrical divide-by-ten count can be obtained from the 90 counter by connecting the Q_D output to the A input and applying the input count to the B input which gives a divide-by-ten square wave at output Q_A.

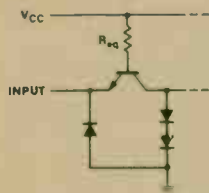
FEATURES

- Low power consumption
- High count rates . . . typically 50MHz
- Choice of counting modes
- Fully TTL and CMOS compatible

ABSOLUTE MAXIMUM RATINGS

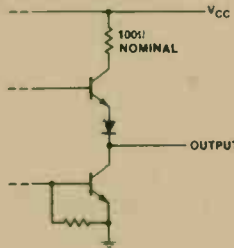
Typical Power Dissipation	145 mW
Count Frequency	42 MHz
High Level Input Voltage (Min)	2 V
Low Level Input Voltage (Max)	0.8 V
High Level Input Current	800 μA
Low Level Output Current (Max)	16 mA
V _{CC} to Ground	- 0.5 to + 7.0 V
Voltage Applied to Outputs (Output High)	- 0.5 to + 5.5 V

INPUT/OUTPUT EQUIVALENTS



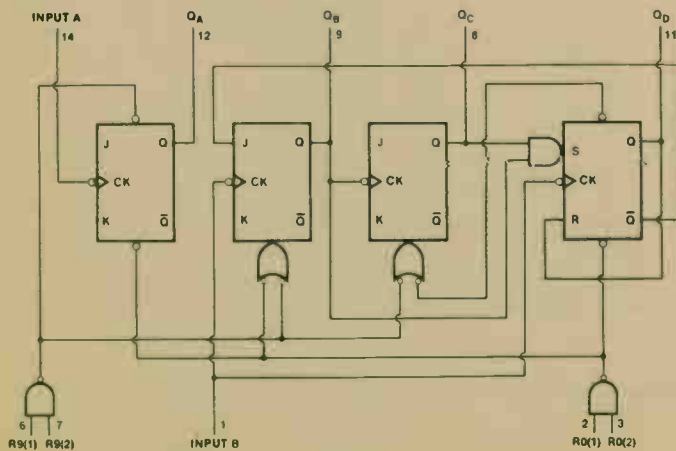
INPUT	R _{eq} NOMINAL
A	2.5K
B	1.25K
ALL RESETS	6K

Each Input

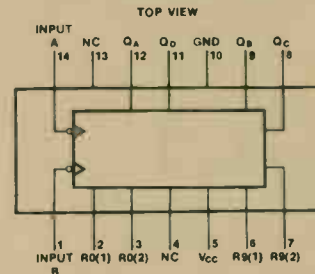


Typical of all Outputs

BLOCK DIAGRAM



PIN CONNECTION



TRUTH TABLES

RESET/COUNT

RESET INPUTS				OUTPUTS			
RO(1)	RO(2)	R9(1)	R9(2)	Q _D	Q _C	Q _B	Q _A
H	H	L	X	L	L	L	L
H	H	X	L	L	L	L	L
X	X	H	H	H	L	L	H
X	L	X	L	COUNT			
L	X	L	X	COUNT			
L	X	X	L	COUNT			
X	L	L	X	COUNT			

BCD COUNT SEQUENCE (See Note A)

COUNT	OUTPUTS			
	Q _D	Q _C	Q _B	Q _A
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	L	H	L	H
6	L	H	H	L
7	L	H	H	H
8	H	L	L	L
9	H	L	L	H

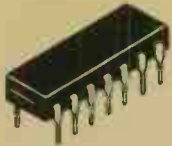
BI-QUINARY (5-2) (See Note B)

COUNT	OUTPUTS			
	Q _A	Q _D	Q _C	Q _B
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	H	L	L	L
6	H	L	L	H
7	H	L	H	L
8	H	L	H	H
9	H	H	L	L

L = Low Level
H = High Level

Notes:

- (A) Output Q_A is connected to input B for BCD count.
- (B) Output Q_D is connected to input A for bi-quinary count.



QUAD LINE DRIVER

MC1488
276-2520

GENERAL DESCRIPTION

The 1488 is a monolithic quad line driver designed to interface data terminal equipment with data communications equipment in conformance with the specifications of EIA Standard No. RS-232C.

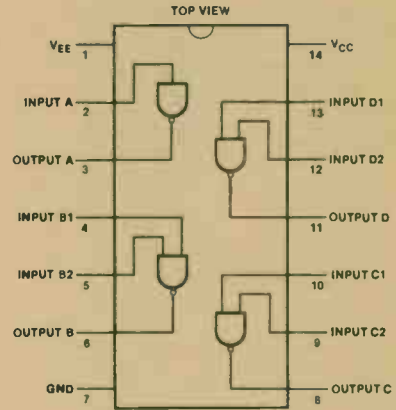
FEATURES

- Current Limited Output
±10 MA typ
- Power-Off Source Impedance
300 Ohms min
- Simple Slew Rate Control with External Capacitor
- Flexible Operating Supply Range

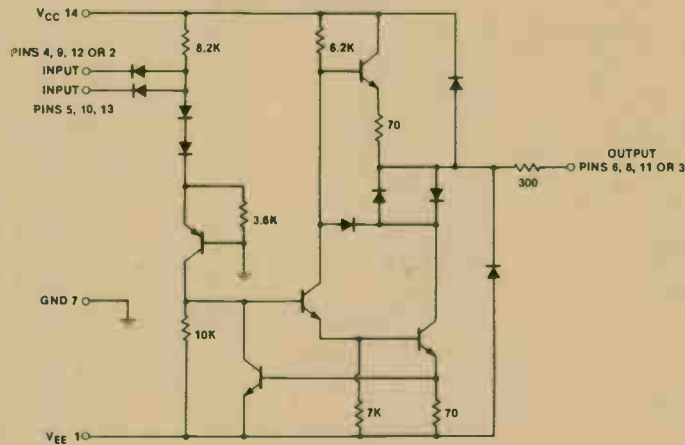
ABSOLUTE MAXIMUM RATINGS

Supply Voltage (V_{CC})	15 V
(V_{EE})	- 15 V
Output Signal Voltage (V_O)	±15 V
Power (PD)	1 W
Input Current-Low Logic State ($V_{IL} = 0$) (See Fig. 8)	1.6 mA
Input Current-High Logic State ($V_{IH} = 5.0V$) (See Fig. 8)	10 μ A
Output Resistance ($V_{CC} = V_{EE} = 0/Vol = \pm 2.0V$ (See Fig. 11)	300 Ω
Operating Temperature Range (T_A)	0°C To + 75°C
Storage Temperature Range (T_{stg})	-65°C To +175°C

PIN CONNECTION



INTERNAL CIRCUIT
(1/4 of Circuit Shown)



TYPICAL CHARACTERISTICS

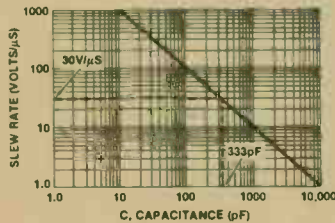


Figure 1—Slew Rate vs Capacitance for $I_{SC} = 10mA$

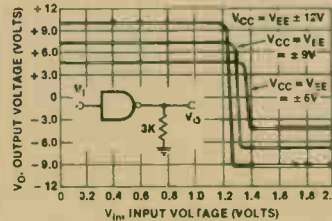


Figure 3—Transfer Characteristics vs Power-Supply Voltage

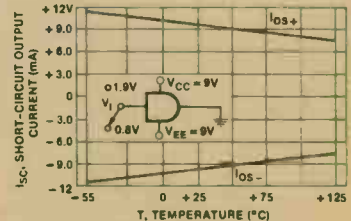


Figure 4—Short-Circuit Output Current vs Temperature

INTERFACE (DRIVER)

MC1488 276-2520

TYPICAL CHARACTERISTICS (Cont'd)

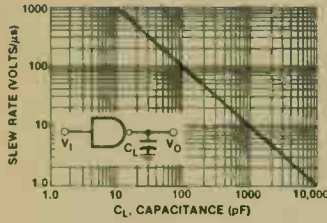


Figure 5—Output Slew Rate vs Load Capacitance

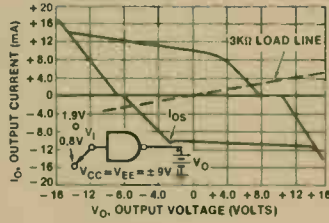


Figure 6—Output Voltage and Current-Limiting Characteristics

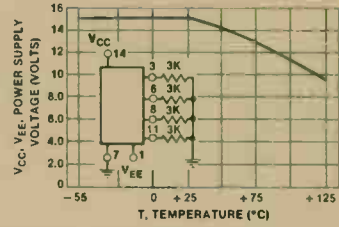
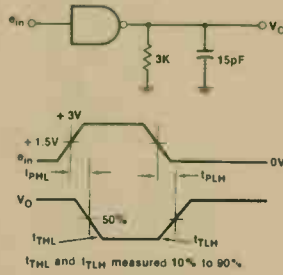


Figure 7—Maximum Operating Temperature vs Power-Supply Voltage



Switching Response

TEST CIRCUITS

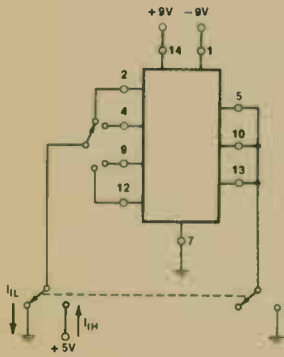


Figure 8 — Input Current

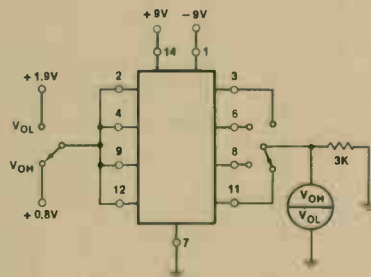


Figure 9— Output Voltage

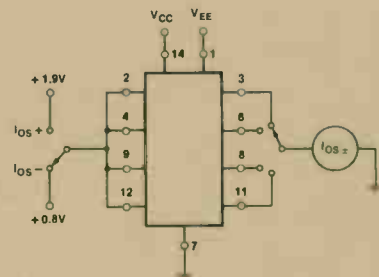


Figure 10— Output Short-Circuit Current

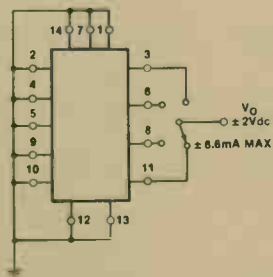


Figure 11 — Output Resistance (Power-Off)

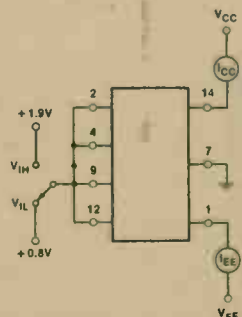


Figure 12— Power-Supply Currents

APPLICATIONS INFORMATION

The Electronic Industries Association (EIA) RS232C specification details the requirements for the interface between data processing equipment and data communications equipment. This standard specifies not only the number and type of interface leads, but also the voltage levels to be used. The 1488 quad driver and its companion circuit, the 1489 quad receiver, provide a complete interface system between DTL or TTL logic levels and the RS232C defined levels. The RS232C requirements as applied to drivers are discussed herein.

The required driver voltages are defined as between 5 and 15-volts in magnitude and are positive for a logic "0" and negative for a logic "1". These voltages are so defined when the drivers are terminated with a 3000 to 7000-ohm resistor. The 1488 meets this voltage requirement by converting a DTL/TTL logic level into RS232C levels with one stage of inversion.

The RS232C specification further requires that during transitions, the driver output slew rate must not exceed 30 volts per microsecond. The inherent slew rate of the 1488 is much too fast for this requirement. The current limited output of the device can be used to control this slew rate by connecting a capacitor to each drive output. The required capacitor can be easily determined by using the relationship $C = I_{OS} \times \Delta T / \Delta V$ from which Figure 1 is derived. Accordingly, a 330-pF capacitor on each output will guarantee a worst case slew rate of 30 volts per microsecond.

The interface driver is also required to withstand an accidental short to any other conductor in an interconnecting cable. The worst possible signal on any conductor would be another driver using a plus or minus 15-volt, 500-mA source. The 1488 is designed to indefinitely withstand such a short to all four outputs in a package as long as the power-supply voltages are greater than 9.0 volts (i.e., $V_{CC} \geq 9.0 V$; $V_{EE} \leq -9.0 V$). In some power-supply designs, a loss of system power causes a low impedance on the power-supply outputs. When this occurs, a low impedance to ground would exist at the power inputs to the 1488 effectively shorting the 300-ohm output resistors to ground. If all four outputs were then shorted to plus or minus 15 volts, the power dissipation in these resistors would be excessive. Therefore, if the system is designed to permit low impedances to ground at the power-supplies of the drivers, a diode should be placed in each power-supply lead to prevent overheating in this fault condition. These two diodes, as shown in Figure 2, could be used to decouple all the driver packages in a system. (These same diodes will allow the 1488 to withstand momentary shorts to the ± 25 -volt limits specified in the earlier Standard RS232B.) The addition of the diodes also permits the 1488 to withstand faults with power-supplies of less than the 9.0 volts stated above.

The maximum short-circuit current allowable under fault conditions is more than guaranteed by the previously mentioned 10 mA output current limiting.

OTHER APPLICATIONS

The 1488 is an extremely versatile line driver with a myriad of possible applications. Several features of the drivers enhance this versatility:

Output Current Limiting—this enables the circuit designer to define the output voltage levels independent of power-supplies and can be accomplished by diode clamping of the output pins. Figure 14 shows the 1488 used as a DTL to MOS translator where the high-level voltage output is clamped one diode above ground. The resistor divider shown is used to reduce the output voltage below the 300 mV above ground MOS input level limit.

Power-Supply Range—as can be seen from the schematic drawing of the drivers, the positive and negative driving elements of the device are essentially independent and do not require matching power-supplies. In fact, the positive supply can vary from a minimum seven volts (required for driving the negative pulldown section) to the maximum specified 15 volts. The negative supply can vary from approximately -2.5 volts to the minimum specified -15 volts. The 1488 will drive the output to within 2 volts of the positive or negative supplies as long as the current output limits are not exceeded. The combination of the current-limiting and supply-voltage features allow a wide combination of possible outputs within the same quad package. Thus if only a portion of the four drivers are used for driving RS232C lines, the remainder could be used for DTL to MOS or even DTL to DTL translation. Figure 15 shows one such combination.

TYPICAL APPLICATIONS

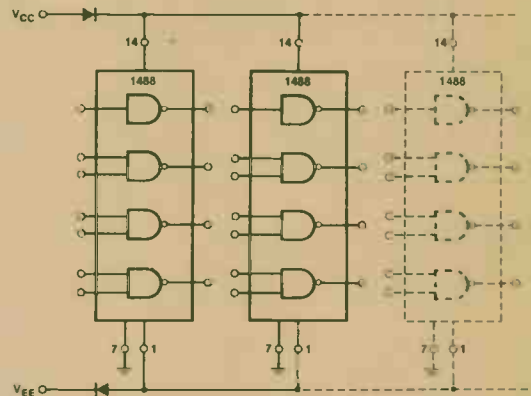
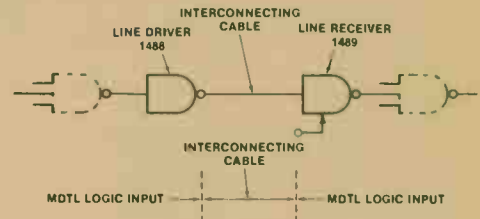


Figure 2—Power Supply Protection to Meet Power-Off Fault Conditions

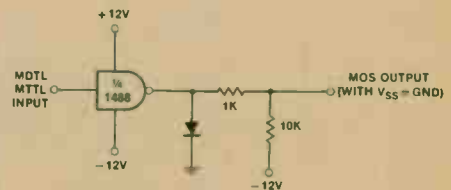


Figure 14—MDTL/MTTL-to-MOS Translator

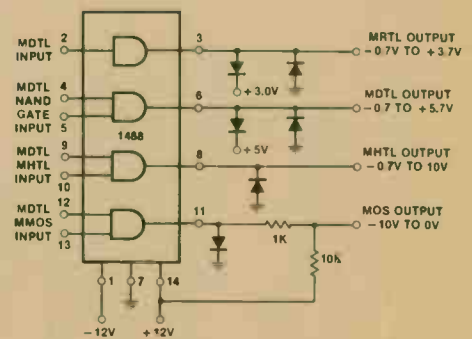
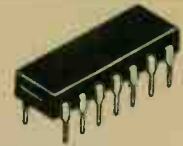


Figure 15—Logic Translator Applications

INTERFACE (RECEIVER)

MC1489
276-2521

QUAD LINE RECEIVER



GENERAL DESCRIPTION

The 1489 monolithic quad line receiver is designed to interface data terminal equipment with data communications equipment in conformance with specifications of EIA Standard No. RS-232C.

FEATURES

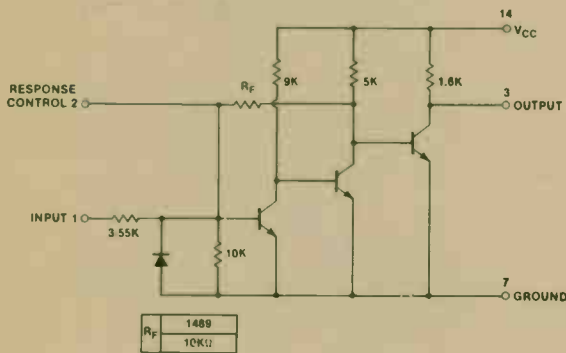
- Input Resistance—3.0 k to 7.0 K ohms
- Input Signal Range— ± 30 Volts
- Input Threshold Hysteresis Built In
- Response Control
 - a) Logic Threshold Shifting
 - b) Input Noise Filtering

ABSOLUTE MAXIMUM RATINGS

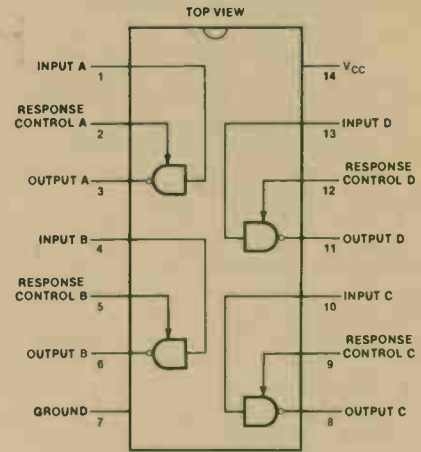
Supply Voltage (V_{CC})	10 V
Input Voltage Range (V_{IR})	± 30 V
Output Load Current (I_L)	20 mA
Power Dissipation (P_D)	1 W
Operating Temperature Range (TA)	0°C To +75°C
Storage Temperature Range (T_{stg})	-65°C To +175°C

INTERNAL CIRCUIT

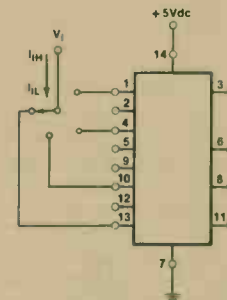
($\frac{1}{4}$ of Circuit Shown)



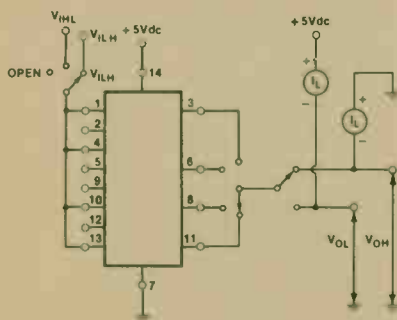
PIN CONNECTION



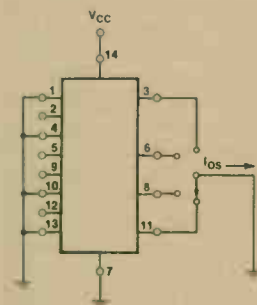
TEST CIRCUITS



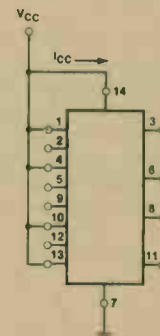
Input Current



Output Voltage and Input Threshold Voltage

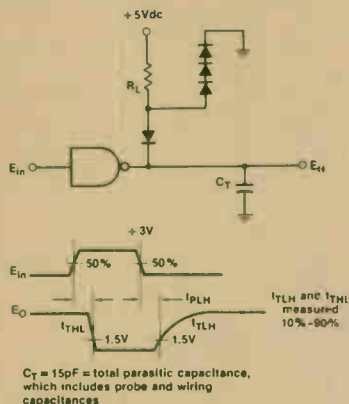


Output Short-Circuit Current



Power-Supply Current

TYPICAL CHARACTERISTICS



Switching Response

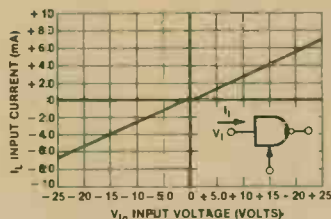


Figure 1—Input Current

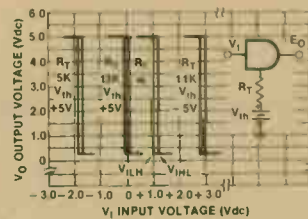


Figure 2—Input Threshold Voltage Adjustment

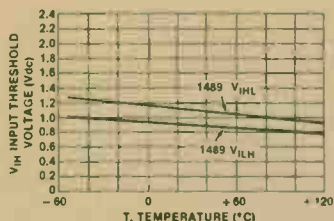


Figure 3—Input Threshold Voltage vs Temperature

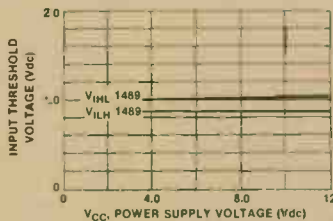


Figure 4—Input Threshold vs Power—Supply Voltage

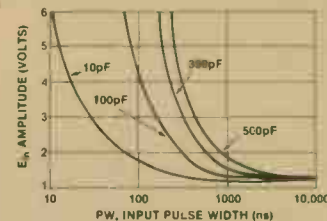


Figure 5—Turn-on Threshold vs Capacitance from Response Control Pin to Gnd

APPLICATIONS INFORMATION

The Electronic Industries Association (EIA) has released the RS-232C specification detailing the requirements for the interface between data processing equipment and data communications equipment. This standard specifies not only the number and type of interface leads, but also the voltage levels to be used. The 1488 quad driver and its companion circuit, the 1489 quad receiver, provide a complete interface system between DTL or TTL logic levels and the RS-232C defined levels. The RS-232C requirements as applied to receivers are discussed here. The required input impedance is defined as between 3000 ohms and 7000 ohms for input voltages between 3.0 and 25 volts in magnitude; and any voltage on the receiver input in an open circuit condition must be less than 2.0 volts in magnitude. The 1489 circuits meet these requirements with a maximum open circuit voltage of one V_{BE} .

The receiver shall detect a voltage between -3.0 and -25 volts as a logic "1" and input between $+3.0$ and $+25$ volts as a logic "0". On some interchange leads, an open circuit or power "OFF" condition (300 ohms or more to ground) shall be decoded as an "OFF" condition or logic "1". For this reason, the input hysteresis thresholds of the 1489 circuits are all above ground. Thus an open or grounded input will cause the same output as a negative of logic "1" input.

TYPICAL APPLICATIONS

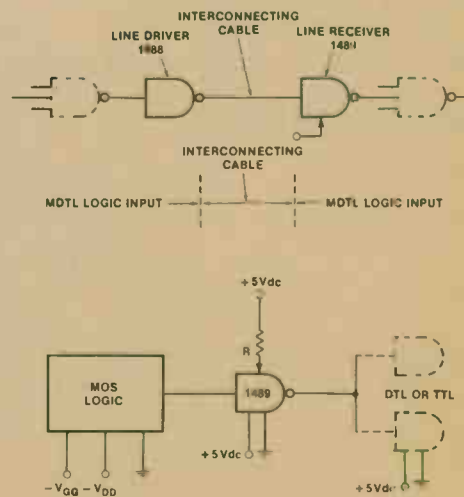
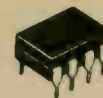


Figure 7—Typical Translator Application—MOS to DTL or TTL

TLC555 TIMER
276-1718



GENERAL DESCRIPTION

The TLC555 is a monolithic timing circuit fabricated using the Lin CMOS™ process. Due to its high-impedance inputs (typically $10^{12}\Omega$), it is capable of producing accurate time delays and oscillations while using less expensive, smaller timing capacitors. The TLC555 achieves both monostable (using one resistor and one capacitor) and astable (using two resistors and one capacitor) operation. In addition, 50% duty cycle astable operation is possible using only a single resistor and one capacitor. The Lin CMOS™ process allows the TLC555 to operate at frequencies up to 2 MHz and be fully compatible with CMOS, TTL, and MOS logic. It also provides very low power consumption (typically 1 mW at $V_{DD} = 5V$) over a wide range of supply voltages ranging from 2 volts to 18 volts.

Threshold and trigger levels are normally two-thirds and one-third respectively of V_{DD} . These levels can be altered by use of the control voltage terminal. When the trigger input falls below trigger level, the flip-flop is set and the output goes high. If the trigger input is above the trigger level and the threshold input is above the threshold level, the flip-flop is reset and the output is low. The reset input can override all other inputs and can be used to initiate a new timing cycle. When the reset input goes low, the flip-flop is reset and the output goes low. Whenever the output is low, a low impedance path is provided between the discharge terminal and ground.

While the complementary CMOS OUTPUT is capable of sinking over 100 mA and sourcing over 10 mA, the TLC555 exhibits greatly reduced supply current spikes during output transitions.

FEATURES

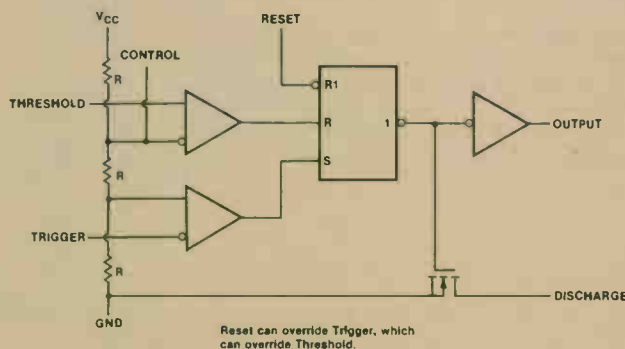
- Very low power consumption (1 mW typical at $V_{DD} = 5 V$)
- Capable of very high-speed operation (2 MHz in a stable operation)
- Complementary CMOS output capable of swinging rail to rail
- High output-current capability (sink 100 mA typical) (source 10 mA typical)
- Output fully CMOS, TTL, and MOS-compatible
- Low supply current reduces spikes during output transitions
- High impedance input $10^{12}\Omega$ typical)
- Single supply operation from 2 to 18 volts

ABSOLUTE MAXIMUM RATINGS

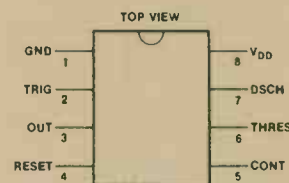
Supply Voltage (V_{DD}) (See Note 1)	18 V
Input Voltage Range (Any Input)	-03 V To 18 V
Power Dissipation (mW)	600mW
Operating Temperature Range	0°C To 70°C
Storage Temperature Range	-65°C To 150°C

NOTES: 1. All voltage values are with respect to network ground terminal.

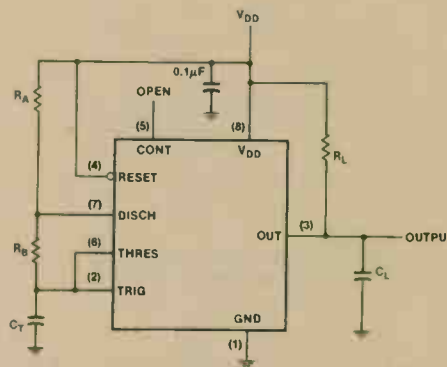
BLOCK DIAGRAM



PIN CONNECTION



TYPICAL APPLICATION



Circuit for Astable Operation



8 WATT AUDIO POWER AMPLIFIER

383
276-703

GENERAL DESCRIPTION

The 383 is a cost effective, high power amplifier suited for automotive applications. High current capability (3.5A) enables the device to drive low impedance loads with low distortion. The 383 is current limited and thermally protected. The 383 comes in a 5-pin TO-220 package.

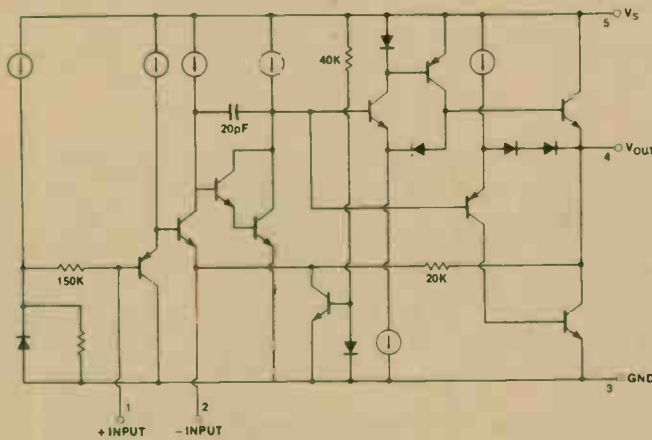
FEATURES

- High peak current capability (3.5A)
- Large output voltage swing
- Externally programmable gain
- Wide supply voltage range (5V – 20V)
- Few external parts required
- Pin for pin compatible with TDA2002
- Low distortion
- High input impedance
- No turn-on transients
- Low noise
- Short circuit protected

ABSOLUTE MAXIMUM RATINGS

Peak Supply Voltage (50 ms)	25V
Operating Supply Voltage	20V
Output Current	
Repetitive	3.5A
Non-repetitive	4.5A
Input Voltage	±0.5V
Power Dissipation	15W
Operating Temperature	0 to +70°C
Storage Temperature	-60 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

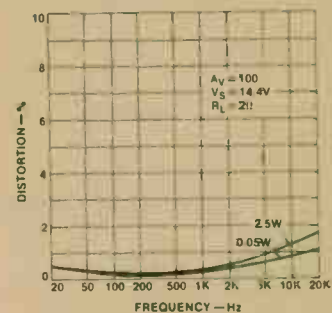
INTERNAL CIRCUIT



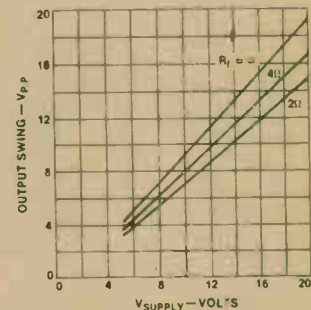
PIN CONNECTION



TYPICAL CHARACTERISTICS

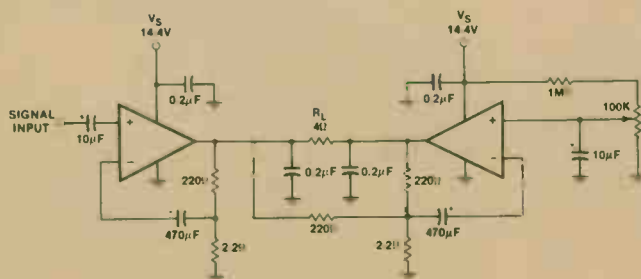


Distortion vs Frequency

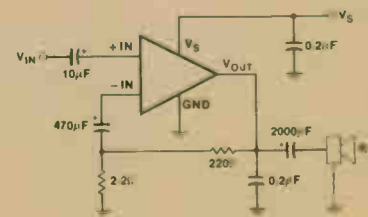


Output Swing vs Supply Voltage

TYPICAL APPLICATIONS



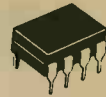
16W Bridge Amplifier



Basic Audio Amp

386
276-1731

LOW VOLTAGE AUDIO POWER AMPLIFIER



GENERAL DESCRIPTION

The 386 is a power amplifier designed for use in low voltage consumer applications. The gain is internally set to 20 to keep external part count low, but the addition of an external resistor and capacitor between pins 1 and 8 will increase the gain to any value up to 200.

The inputs are ground referenced while the output is automatically biased to one half the supply voltage. The quiescent power drain is only 18 milli-watts when operating from a 6 volt supply, making the 386 ideal for battery operation.

FEATURES

- Battery operation
- Minimum external parts
- Wide supply voltage range 4-12 volts
- Low quiescent current drain 3 mA
- Voltage gains from 20 to 200
- Ground referenced input
- Self-centering output quiescent voltage
- Low distortion
- Eight pin dual-in-line package

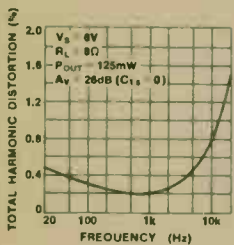
APPLICATIONS

- AM-FM radio amplifiers
- Portable tape player amplifiers
- Intercoms
- TV sound systems
- Line drivers
- Ultrasonic drivers
- Small servo drivers
- Power converters

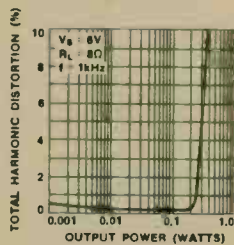
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	15V
Package Dissipation 8 Pin DIP	660 mW
Input Voltage	±0.4V
Junction Temperature	+150°C
Operating Temperature	0 to +70°C
Storage Temperature	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	+300°C

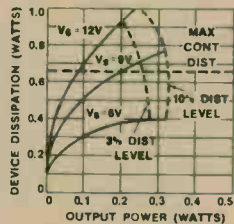
TYPICAL CHARACTERISTICS



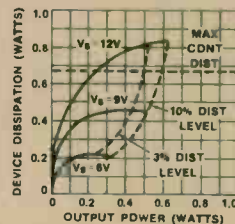
Distortion vs Frequency



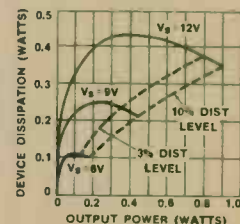
Distortion vs Output Power



Device Dissipation vs Output Power—4Ω Load

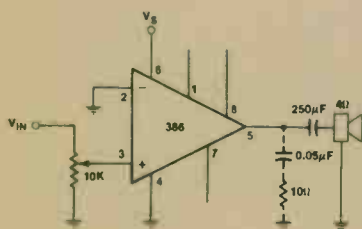


Device Dissipation vs Output Power—8Ω Load

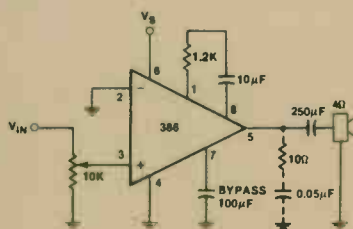


Device Dissipation vs Output Power—16Ω Load

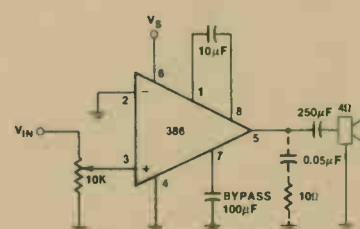
TYPICAL APPLICATIONS



Amplifier with Gain = 20
(Minimum Parts)

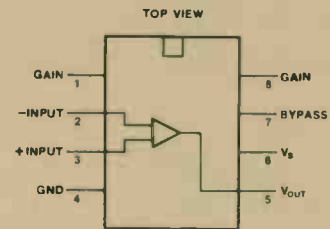


Amplifier with Gain = 50

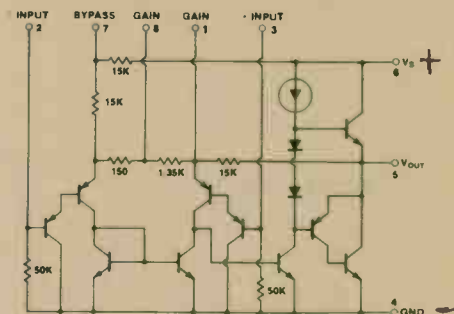


Amplifier with Gain = 200

PIN CONNECTION



INTERNAL CIRCUIT





5.8W AUDIO POWER AMPLIFIER

TA7205AP
276-705

GENERAL DESCRIPTION

The TA7205AP is a monolithic audio power amplifier with a built in thermal shut-down circuit designed for car radio and stereo applications.

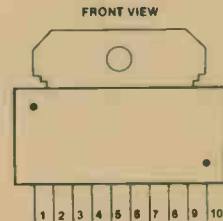
FEATURES

- Low distortion
THD=0.15% (Typ.) (@ $P_{OUT}=1W$, $G_V=55dB$)
THD=0.07% (Typ.) (@ $P_{OUT}=1W$, $G_V=44dB$)
- Operating supply voltage range: $V_{CC}=9\sim 18V$
- 'PCT' process to insure low noise characteristic
- Current limiting for short-circuit protection
- Built in thermal shut-down circuit
- Built in surge voltage protection circuit

ABSOLUTE MAXIMUM RATINGS

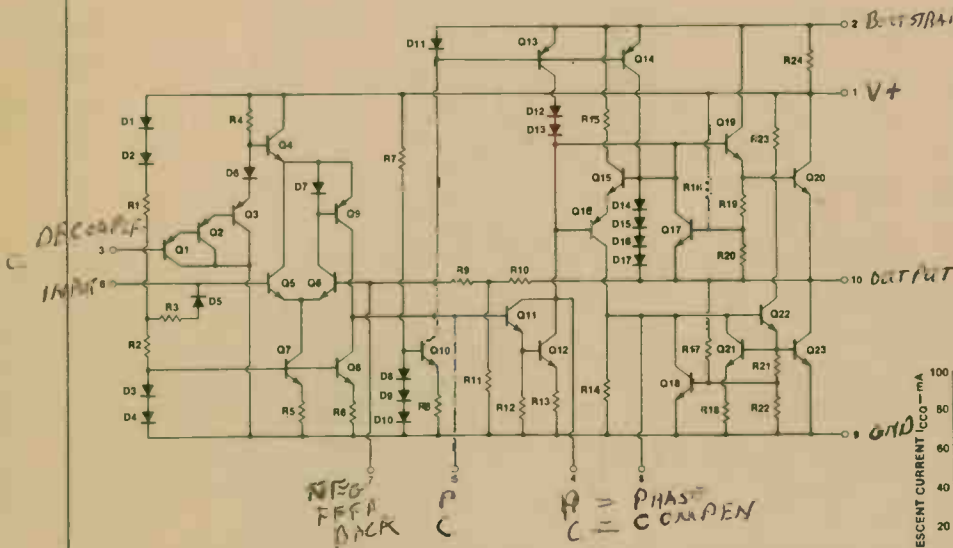
Operating Supply Voltage (V_{CC})	18V
Quiescent Supply Voltage (V_{CCQ})	25V
Output Peak Current (I_O)	4.5A
Quiescent Current (I_{CCQ})	80mA
Operating Temperature	-20 to +75°C
Storage Temperature	-55 to +150°C

PIN CONNECTION

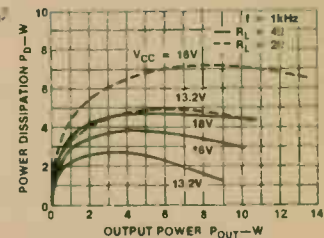


PIN	FUNCTION
1	V+
2	BOOTSTRAP
3	DECOUPLING
4	PHASE COMPENSATION
5	PHASE COMPENSATION
6	INPUT
7	NEGATIVE FEEDBACK
8	PHASE COMPENSATION
9	GROUND
10	OUTPUT

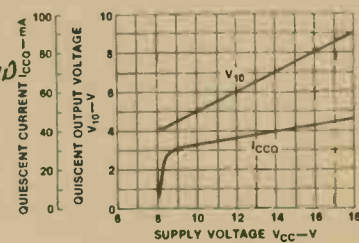
INTERNAL CIRCUIT



TYPICAL CHARACTERISTICS

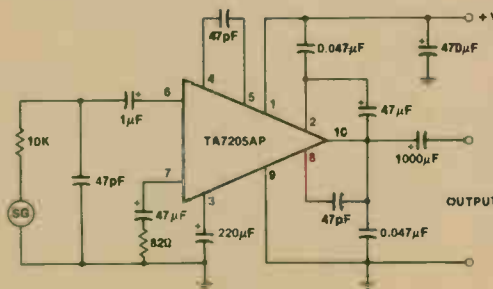


Power Dissipation vs Output Power

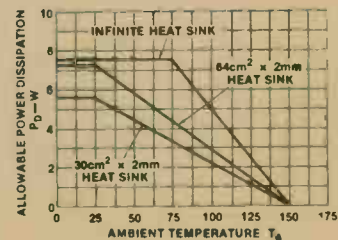


Quiescent Current and Output Voltage vs Supply Voltage

TYPICAL APPLICATION



5 Watt Audio Amplifier



Allowable Power Dissipation vs Ambient Temperature

20W HI-FI AUDIO AMPLIFIER

TDA1520A
276-1305

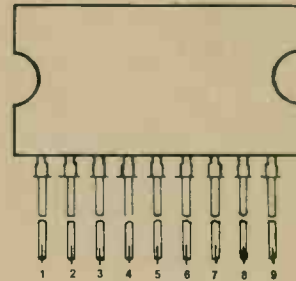
GENERAL DESCRIPTION

The TDA1520A is a monolithic integrated hi-fi audio power amplifier designed for asymmetrical or symmetrical power supplies. The circuit can deliver output power up to 20 watts into 4 and 8 ohm speakers and is intended for use in audio and television.

FEATURES

- Low input offset voltage
- Output stage with low cross-over distortion
- A.C. short-circuit protected
- Very low internal thermal resistance
- Thermal protection
- Very low intermodulation distortion
- Very low transient intermodulation distortion

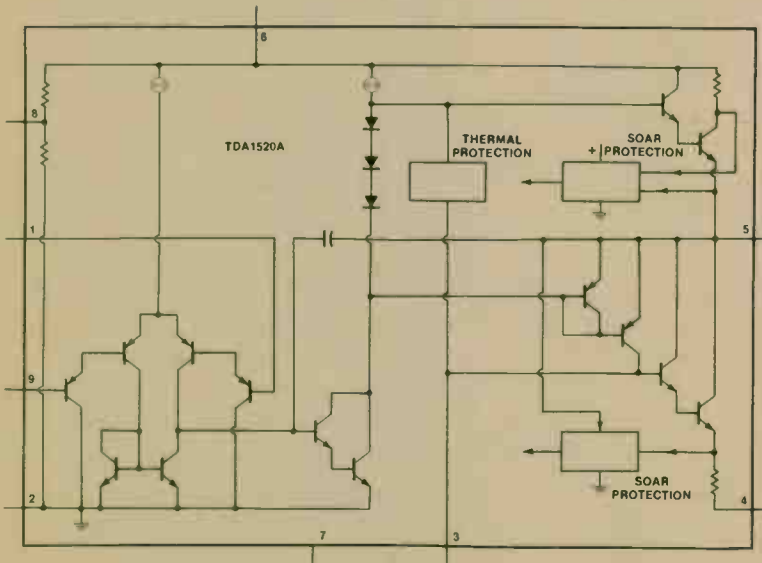
PIN CONNECTION



ABSOLUTE MAXIMUM RATINGS

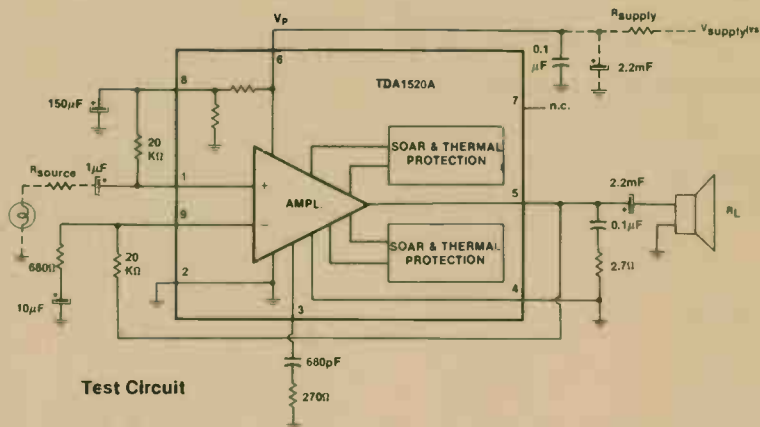
Supply voltage (V _P)	50 V
Total quiescent current at V _p = 33 V (I _{tot})	70 mA
Output power at d _{tot} = 0.5% sine-wave power	
V _p = 33 V; R _L = 4 Ω (PO)	20 W
V _p = 42 V; R _L = 8 Ω (PO)	20 W
Closed-loop voltage gain (externally determined) (G _c)	30 dB
Input resistance (externally determined by R _{B-1}) (R _i)	20 kΩ
Signal-to-noise ratio at P _o = 50 mW (S/N)	76 dB
Supply voltage ripple rejection at f = 100 Hz (RR)	60 dB

BLOCK DIAGRAM



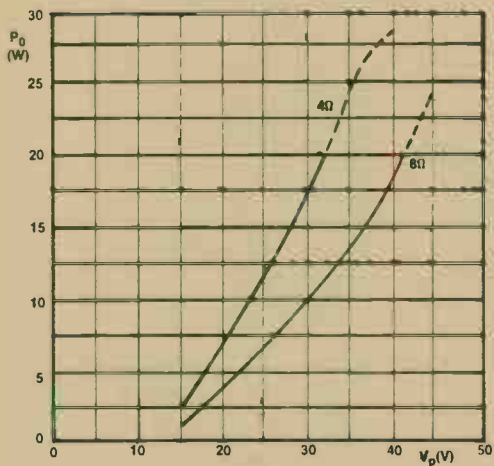
PIN	FUNCTION
1	Non-inverting input
2	Inverting input (substrate)
3	Compensation
4	Negative supply (ground)
5	Output
6	Positive supply (V _p)
7	Not connected
8	Ripple rejection
9	Inverting input (feedback)

TYPICAL APPLICATION



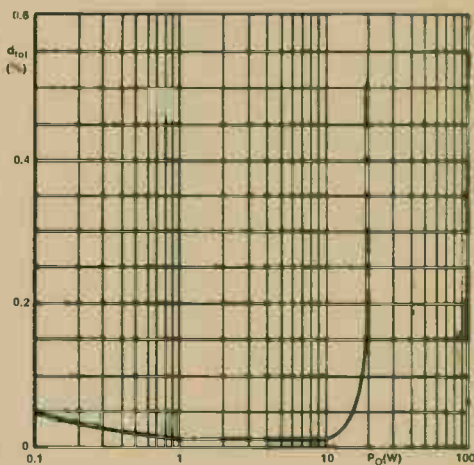
Test Circuit

TYPICAL CHARACTERISTICS

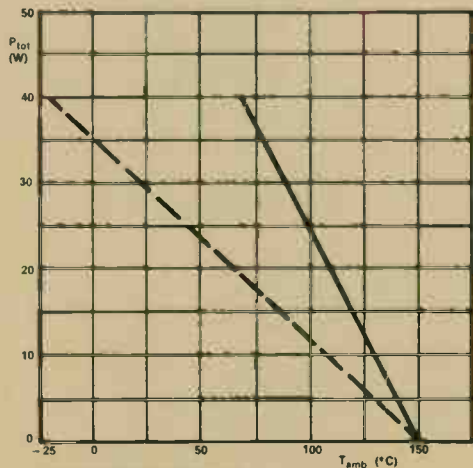


Output power (P_o) versus supply voltage (V_p) at $f = 1$ kHz, $d_{tot} = 0.5\%$, $G_v = 30$ dB.

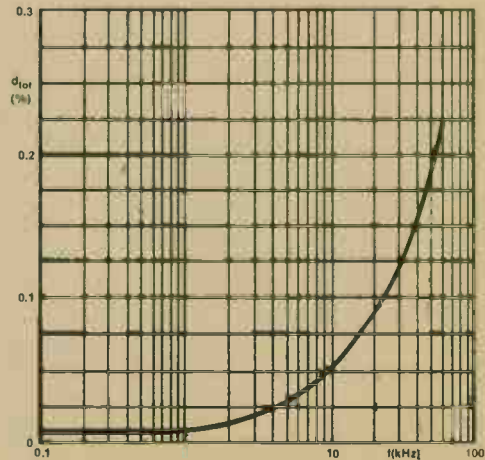
TYPICAL CHARACTERISTICS



Total harmonic distortion (d_{tot}) versus output power (P_o) at $V_p = 33$ V, $R_L = 4 \Omega$, $f = 1$ kHz.



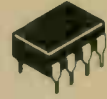
Power derating curves.
 ——— mounted on infinite heatsink.
 - - - mounted on heatsink of 2,3 K/W.



Total harmonic distortion (d_{tot}) versus operating frequency (f) at $V_p = 33$ V, $R_L = 4 \Omega$, $P_o = 10$ W (constant).

353
276-1715

WIDE BANDWIDTH DUAL JFET INPUT OPERATIONAL AMPLIFIER



GENERAL DESCRIPTION

These devices are low cost, high speed, dual JFET input operational amplifiers with an internally trimmed input offset voltage (BI-FET II™) technology). They require low supply current yet maintain a large gain bandwidth product and fast slew rate. In addition, well matched high voltage JFET input devices provide very low input bias and offset currents.

These amplifiers may be used in applications such as high speed integrators, fast D/A converters, sample and hold circuits and many other circuits requiring low input offset voltage, low input bias current, high input impedance, high slew rate and wide bandwidth. The devices also exhibit low noise and offset voltage drift.

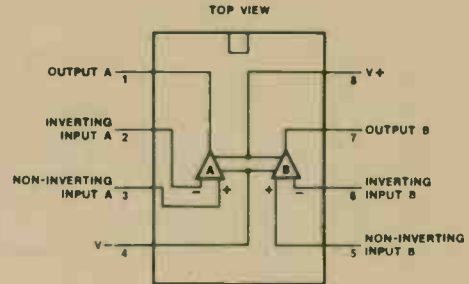
FEATURES

- Internally trimmed offset voltage = 2 mV
- Low input bias current = 50pA
- Low input noise voltage = 16nV/√Hz
- Low input noise current = 0.01 pA/√Hz
- Wide gain bandwidth = 4 MHz
- High slew rate = 13 V/μs
- Low supply current = 3.6 mA
- High input impedance = 10¹²Ω
- Low total harmonic distortion A_V = 10, R_L = 10k, V_O = 20 Vp-p, BW = 20 Hz–20kHz = <0.02%
- Low 1/f noise corner = 50 Hz
- fast settling time to 0.0% = 2μs

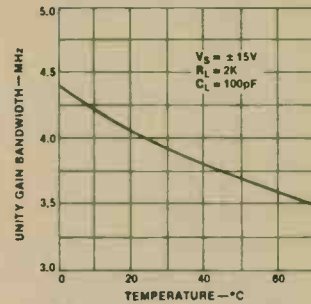
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	±18V
Power Dissipation	500 mW
Differential Input Voltage	±30V
Input Voltage Range	±15V
Output Short Circuit Duration	Continuous
T _{J(MAX)}	115°C
Operating Temperature Range	0 to 70°C
Storage Temperature Range	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

PIN CONNECTION

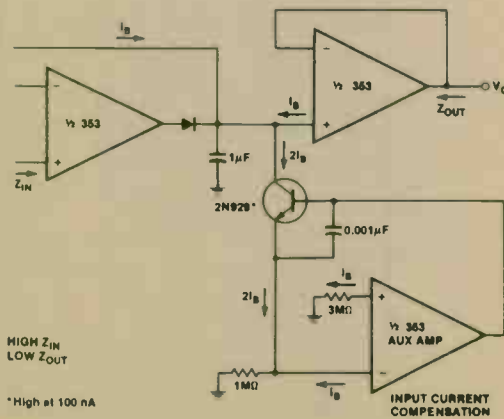


TYPICAL CHARACTERISTICS

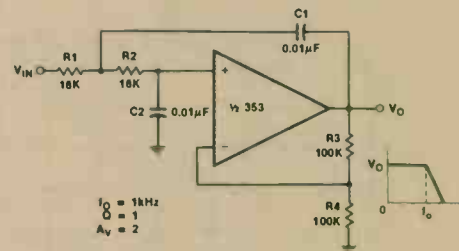


Unity Gain Bandwidth vs Temperature

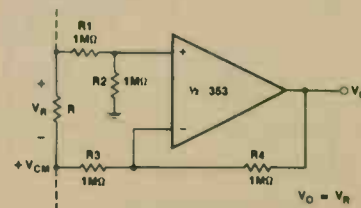
TYPICAL APPLICATIONS



Low Drift Peak Detector

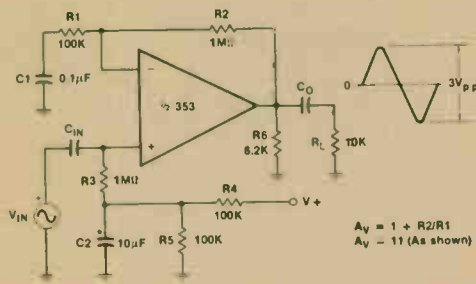


DC Coupled Low-Pass RC Active Filter

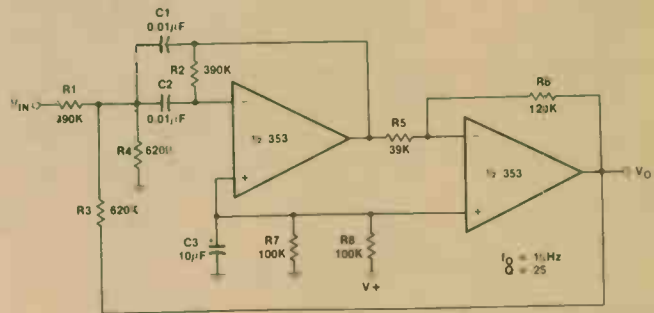


Ground Referencing A Differential Input Signal

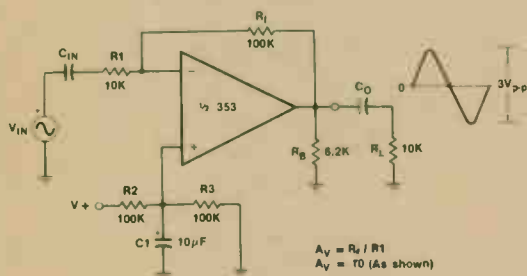
TYPICAL APPLICATIONS (Cont'd)



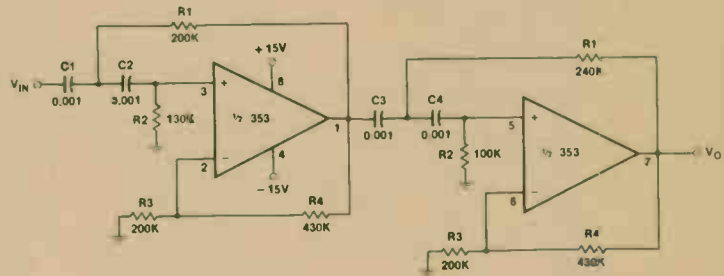
AC Coupled Non-Inverting Amplifier



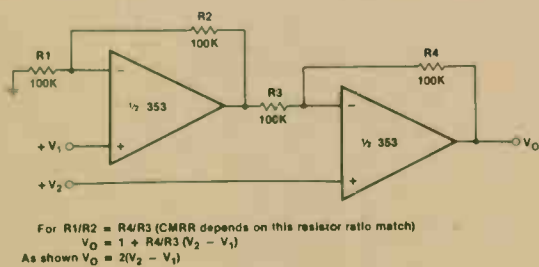
Bandpass Active Filter



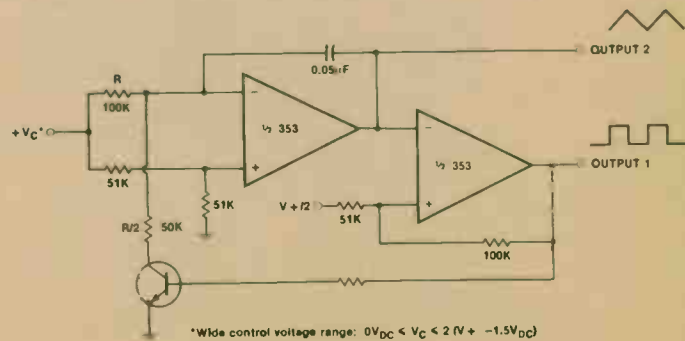
AC Coupled Inverting Amplifier



Fourth Order High Pass Butterworth Filter



High Input Z, DC Differential Amplifier



Voltage Controlled Oscillator (VCO)

741
276-007

OPERATIONAL AMPLIFIER



GENERAL DESCRIPTION

The 741 series are general purpose operational amplifiers which feature improved performance over industry standards.

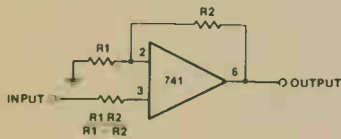
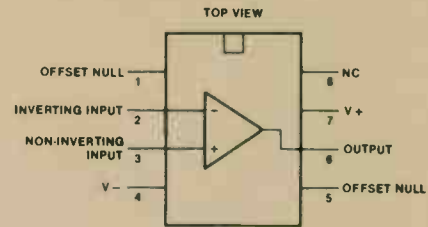
The amplifiers offer many features which make their application nearly foolproof: overload protection on the input and output, no latch-up when the common mode range is exceeded, as well as freedom from oscillations.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage	±16V
Power Dissipation	500 mW
Differential Input Voltage	±30V
Input Voltage	±15V
Output Short Circuit Duration	Indefinite
Operating Temperature Range	0 to +70°C
Storage Temperature Range	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

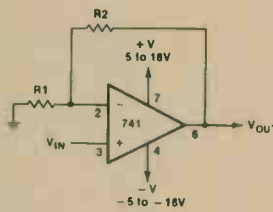
TYPICAL APPLICATIONS

PIN CONNECTION



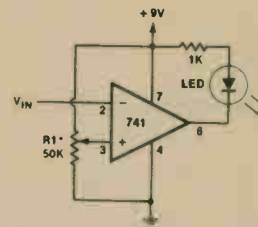
GAIN	R1	R2	BW	R _{IN}
10	1K	9K	100kHz	400M
100	100	9.9K	10kHz	280M
1000	100	99.9K	1kHz	80M

Non-Inverting Amplifier



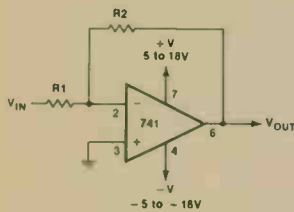
$$V_{OUT} = V_{IN} (1 + R2/R1)$$

Non-Inverting Amplifier



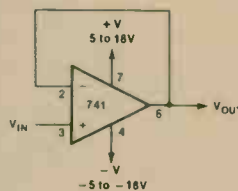
*R1 sets the voltage threshold (up to +9V). When V_{IN} exceeds the threshold (reference), the LED glows.

Level Detector



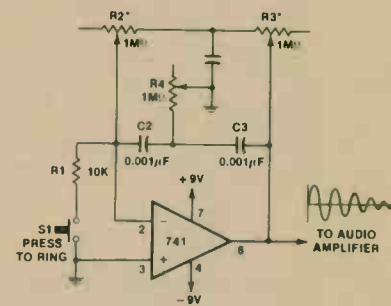
$$V_{OUT} = -V_{IN} (R2/R1)$$

Inverting Amplifier



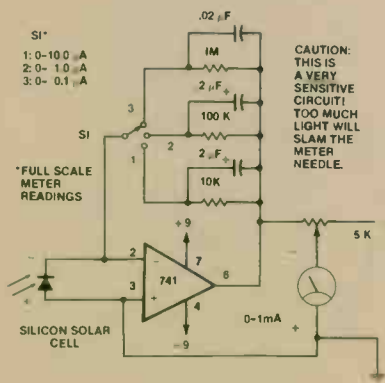
$$V_{OUT} = V_{IN}$$

Unity Gain Follower



*Adjust R3 to just below oscillation point. Adjust R2 and R3 for sounds such as bell, drum, tinkling, etc.

Electronic Bell



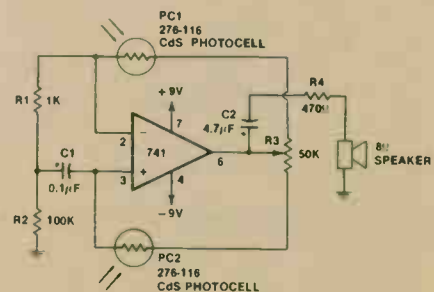
- SI*
- 1: 0-10.0 A
- 2: 0-1.0 A
- 3: 0-0.1 A

*FULL SCALE METER READINGS

SILICON SOLAR CELL

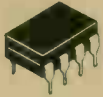
CAUTION: THIS IS A VERY SENSITIVE CIRCUIT! TOO MUCH LIGHT WILL SLAM THE METER NEEDLE.

Optical Power Meter



Light on PC1 decreases tone frequency
Light on PC2 increases tone frequency

Audible Light Sensor



DUAL OPERATIONAL AMPLIFIER

1458
276-038

GENERAL DESCRIPTION

The 1458 is a general purpose dual operational amplifier. The two amplifiers share a common bias network and power supply leads. Otherwise, their operation is completely independent.

FEATURES

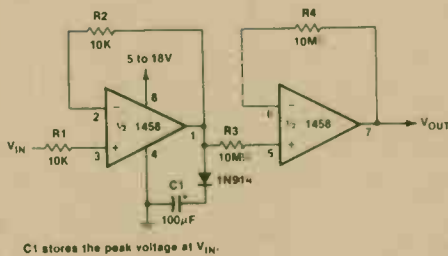
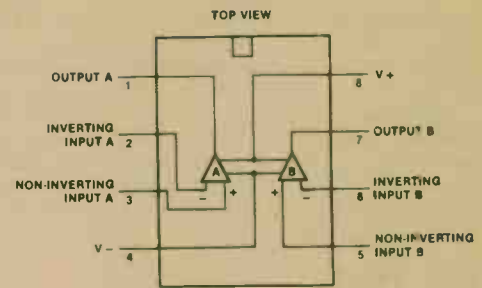
- No frequency compensation required
- Short-circuit protection
- Wide common-mode and differential voltage ranges
- Low-power consumption
- No latch up when input common mode range is exceeded

ABSOLUTE MAXIMUM RATINGS

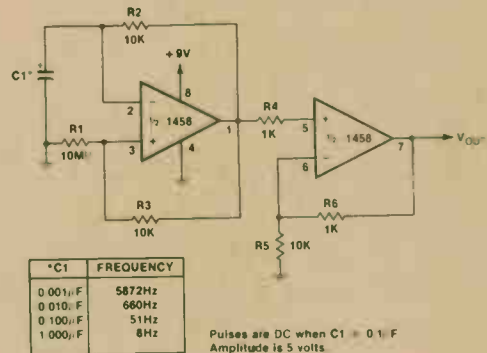
Supply Voltage	.....	± 18V
Power Dissipation	.....	400 mW
Differential Input Voltage	.....	± 30V
Input Voltage	.....	± 15V
Output Short-Circuit Duration	.....	Indefinite
Operating Temperature Range	.....	0 to +70°C
Storage Temperature Range	.....	-65 to +150°C
Lead Temperature (Soldering, 10 sec)	.....	300°C

TYPICAL APPLICATIONS

PIN CONNECTION

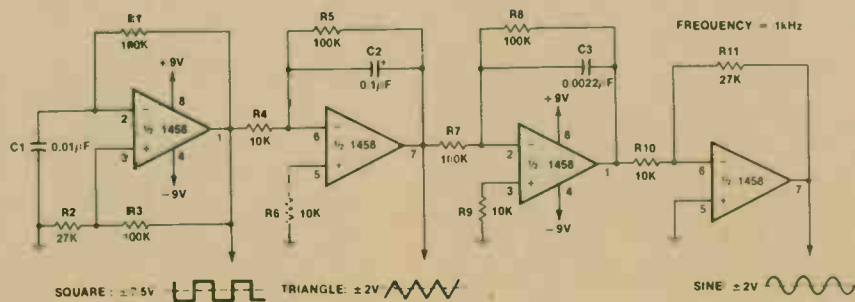


C1 stores the peak voltage at V_{IN} .



Peak Detector

Pulse Generator



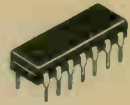
SQUARE: ± 7.5V TRIANGLE: ± 2V

SINE: ± 2V

Function Generator

324
276-1711

QUAD OP AMP



GENERAL DESCRIPTION

The 324 series consists of four independent, high gain, internally frequency compensated operational amplifiers which were designed specifically to operate from a single power supply over a wide range of voltages. Operation from split power supplies is also possible and the low power supply current drain is independent of the magnitude of the power supply voltage.

Application areas include transducer amplifiers, dc gain blocks and all the conventional op amp circuits which now can be more easily implemented in single power supply systems. For example, the 324 series can be directly operated off of the standard +5 V_{DC} power supply voltage which is used in digital systems and will easily provide the required interface electronics without requiring the additional +15 V_{DC} power supplies.

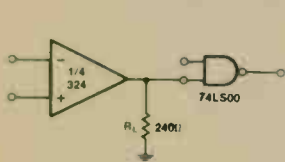
FEATURES

- Internally frequency compensated for unity gain
- Large dc voltage gain 100 dB
- Wide bandwidth (unity gain) 1 MHz (temperature compensated)
- Wide power supply range:
Single supply 3 V_{DC} to 30 V_{DC}
or dual supplies ±1.5 V_{DC} to ±15 V_{DC}
- Very low supply current drain (800 μA)—essentially independent of supply voltage (1 mW/op amp at +5 V_{DC})
- Low input biasing current 45 nA_{DC} (temperature compensated)
- Low input offset voltage 2 mV_{DC} and offset current 5 nA_{DC}
- Input common-mode voltage range includes ground
- Differential input voltage range equal to the power supply voltage
- Large output voltage swing 0 V_{DC} to V₊ - 1.5 V_{DC}

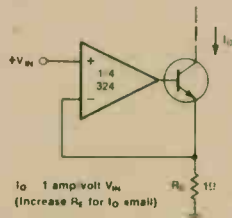
ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V ₊	32 V _{DC} or ±16 V _{DC}
Differential Input Voltage	32 V _{DC}
Input Voltage	-0.3 V _{DC} to +32 V _{DC}
Power Dissipation	
Molded DIP	570 mW
Cavity DIP	900 mW
Output Short-Circuit to GND (One Amplifier)	Continuous
V ₊ ≤ 15 V _{DC} and T _A = 25°C	
Input Current (V _{IN} = -0.3 V _{OL})	50 mA
Operating Temperature Range	0 to +70°C
Storage Temperature Range	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

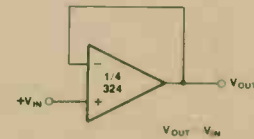
TYPICAL APPLICATIONS



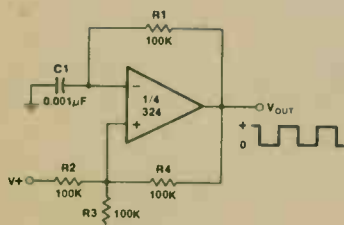
Driving TTL



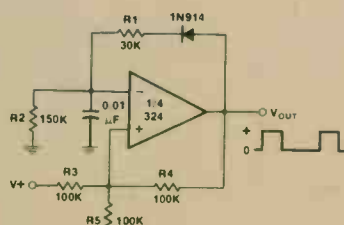
High Compliance Current Sink



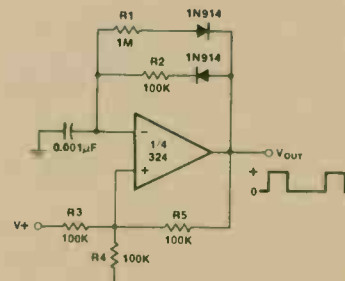
Voltage Follower



Squarewave Oscillator

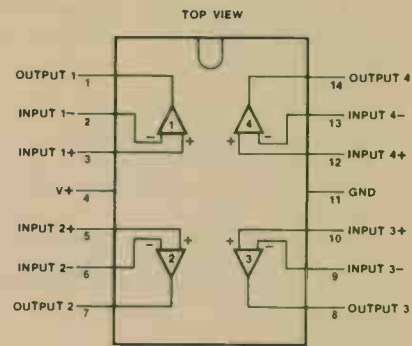


Pulse Generator

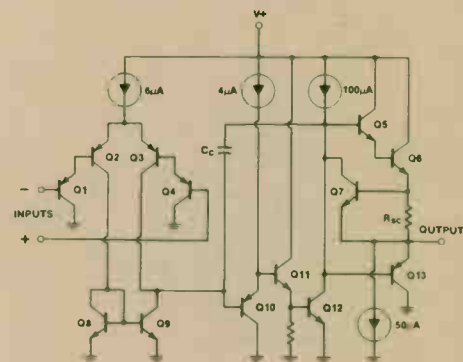


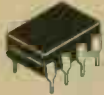
Pulse Generator

PIN CONNECTION



INTERNAL CIRCUIT (Each Amplifier)





TIMER

555
276-1723

GENERAL DESCRIPTION

The 555 is a highly stable device for generating accurate time delays or oscillation. Additional terminals are provided for triggering or resetting if desired. In the time delay mode of operation, the time is precisely controlled by one external resistor and capacitor. For astable operation as an oscillator, the free running frequency and duty cycle are accurately controlled with two external resistors and one capacitor. The circuit may be triggered and reset on falling waveforms, and the output circuit can source or sink up to 200 mA or drive TTL circuits.

FEATURES

- Timing from microseconds through hours
- Operates in both astable and monostable modes
- Adjustable duty cycle
- Output can source or sink 200 mA
- Output and supply TTL compatible
- Temperature stability better than 0.005% per °C
- Normally on and normally off output

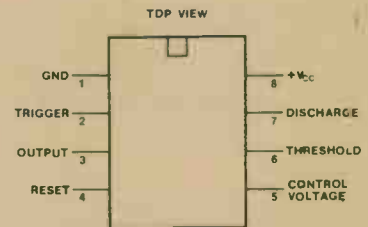
APPLICATIONS

- Precision timing
- Pulse generation
- Sequential timing
- Time delay generation
- Pulse width modulation
- Linear ramp generator
- Pulse position modulation

ABSOLUTE MAXIMUM RATINGS

Supply Voltage	+16V
Power Dissipation	600 mW
Operating Temperature Range	0 to +70°C
Storage Temperature Range	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

PIN CONNECTION

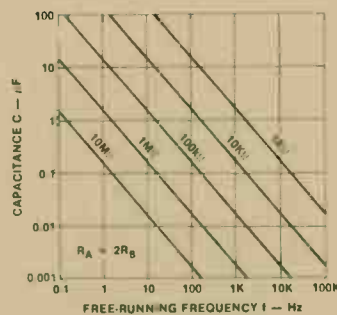


TRUTH TABLE

PIN 2 TRIGGER	PIN 6 THRESHOLD	PIN 4 RESET	PIN 3 OUTPUT
H	X	H	L
L	X	H	H
H	L	H	L
X	X	L	L

X = Don't Care L = Low Level H = High Level

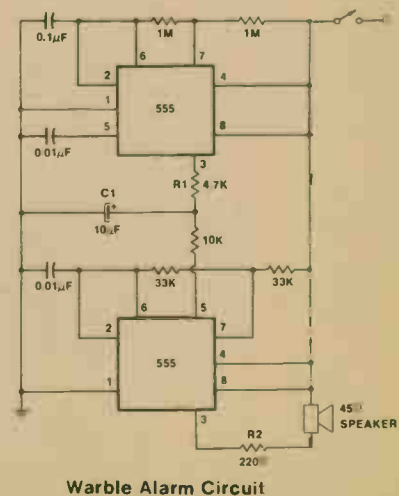
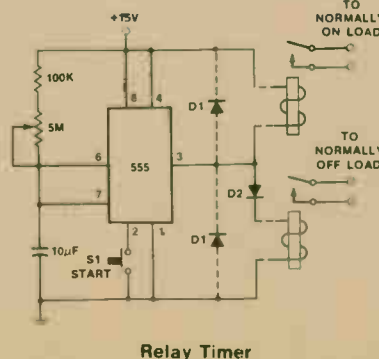
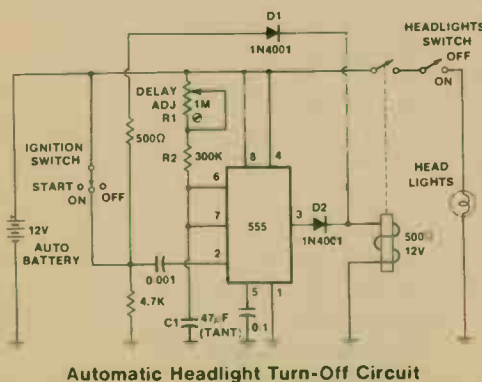
TYPICAL CHARACTERISTICS



The charge time (output high) is given by $t_1 = 0.693 (R_A + R_B) C$
 The discharge time (output low) is given by $t_2 = 0.693 R_B C$
 Thus the total period is: $T = t_1 + t_2 = 0.693 (R_A + 2R_B) C$
 The frequency of oscillation is: $f = 1/T = 1.44 / (R_A + 2R_B) C$

Capacitance vs Free-Running Frequency

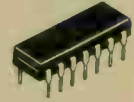
TYPICAL APPLICATIONS



LINEAR (TIMER)

556
276-1728

DUAL TIMER



GENERAL DESCRIPTION

The 556 dual timing circuit is a highly stable controller capable of producing accurate time delays or oscillation. The 556 is a dual 555. Timing is provided by an external resistor and capacitor for each timing function. The two timers operate independently of each other sharing only V_{CC} and ground. The circuits may be triggered and reset on falling waveforms. The output structures may sink or source 200 mA.

FEATURES

- Timing from microseconds through hours
- Operates in both astable and monostable modes
- Replaces two 555 timers
- Adjustable duty cycle
- Output can source or sink 200 mA
- Output and supply TTL compatible
- Temperature stability better than 0.005% per °C
- Normally on and normally off output

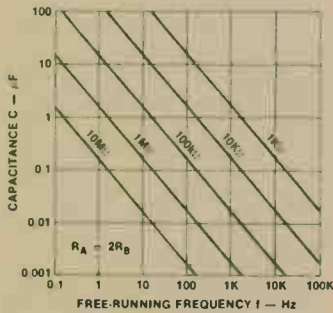
APPLICATIONS

- Precision timing
- Pulse generation
- Sequential timing
- Time delay generation
- Pulse width modulation
- Pulse position modulation
- Linear ramp generator

ABSOLUTE MAXIMUM RATINGS

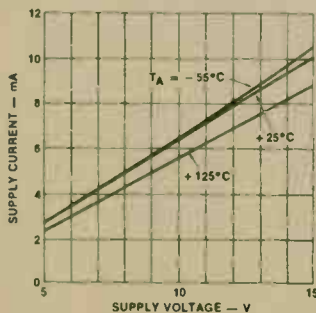
Supply Voltage	+16V
Power Dissipation	600 mW
Operating Temperature Range	0 to +70°C
Storage Temperature Range	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

TYPICAL CHARACTERISTICS

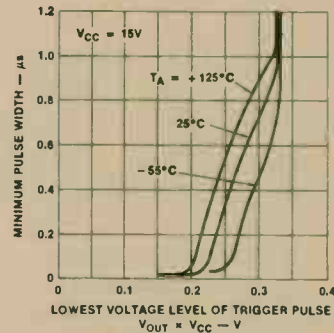


Capacitance vs Free-Running Frequency

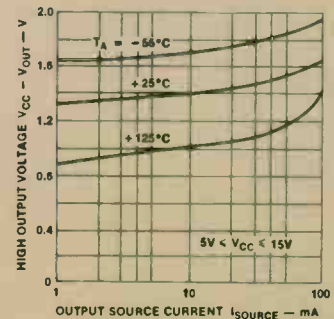
The charge time (output high) is given by:
 $t_1 = 0.693 (R_A + R_B) C$
 The discharge time (output low) is given by:
 $t_2 = 0.693 (R_B) C$
 Thus the total period is:
 $T = t_1 + t_2 = 0.693 (R_A + 2R_B) C$
 The frequency of oscillation is:
 $f = 1/T = 1.44 / (R_A + 2R_B) C$



Supply Current vs Supply Voltage

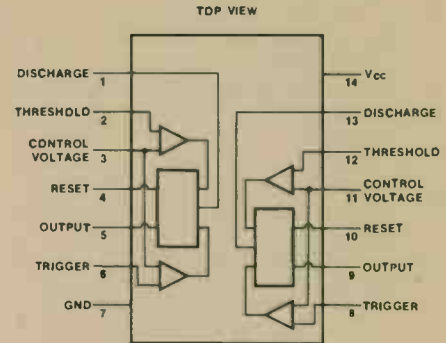


Minimum Pulse Width vs Lowest Voltage Level of Trigger Pulse



High Output Voltage vs Output Source Current

PIN CONNECTION



3-TERMINAL ADJUSTABLE POSITIVE REGULATOR

317T
276-1778

GENERAL DESCRIPTION

The 317T is an adjustable 3-terminal positive voltage regulator capable of supplying in excess of 1.5 A over a 1.2 V to 37 V output range. This device is exceptionally easy to use and requires only two external resistors to set the output voltage.

In addition to higher performance than fixed regulators, the 317T offers full overload protection available only in IC's. Included on the chip are current limit, thermal overload protection and safe area protection. All overload protection circuitry remains fully functional even if the adjustment terminal is disconnected.

Normally, no capacitors are needed unless the device is situated far from the input filter capacitors in which case an input bypass is needed. An optional output capacitor can be added to improve transient response. The adjustment terminal can be bypassed to achieve very high ripple rejection ratios which are difficult to achieve with standard 3-terminal regulators.

Besides replacing fixed regulators, the 317T is useful in a wide variety of other applications. Since the regulator is "floating" and sees only the input-to-output differential voltage, supplies of several hundred volts can be regulated as long as the maximum input to output differential is not exceeded.

It will also serve as a simple adjustable switching regulator, programmable output regulator, or by connecting a fixed resistor between the adjustment and output, the 317T can be used as a precision current regulator. Supplies with electronic shutdown can be achieved by clamping the adjustment terminal to ground which programs the output to 1.2 V where most loads draw little current.

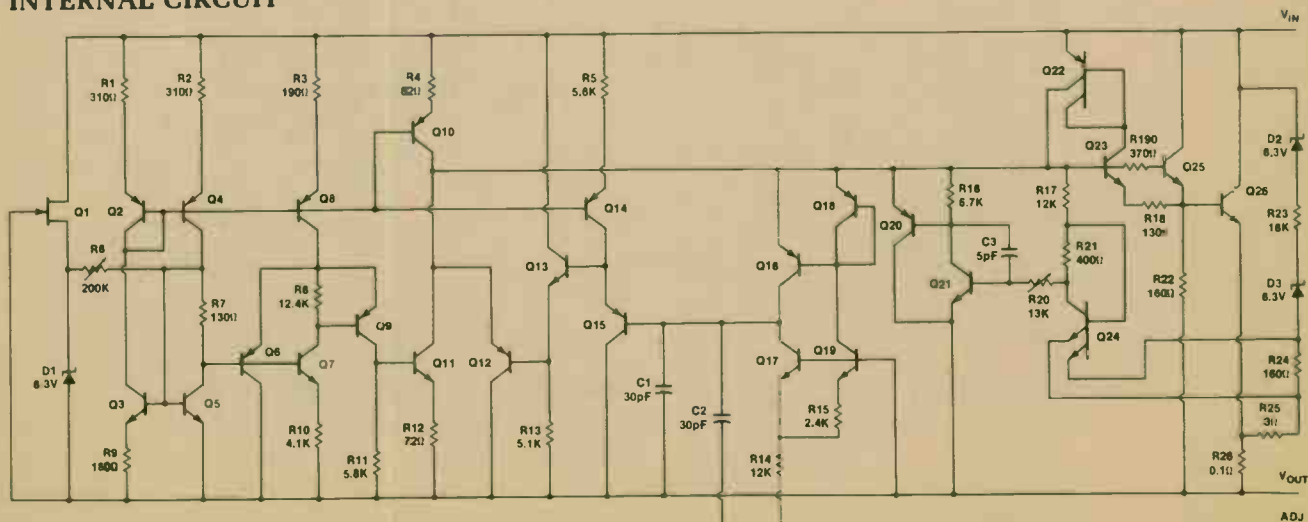
FEATURES

- Adjustable output down to 1.2V
- Guaranteed 1.5A output current
- Line regulation typically 0.01%/V
- Load regulation typically 0.1%
- Current limit constant with temperature
- 100% electrical burn-in
- Eliminates the need to stock many voltages
- Standard 3-lead transistor package
- 80 dB ripple rejection

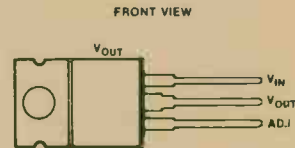
ABSOLUTE MAXIMUM RATINGS

Power Dissipation	Internally limited
Input-Output Voltage Differential	40V
Operating Junction Temperature Range	0 to +125°C
Storage Temperature	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

INTERNAL CIRCUIT

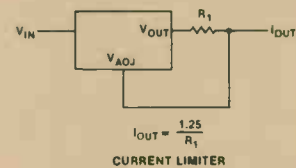
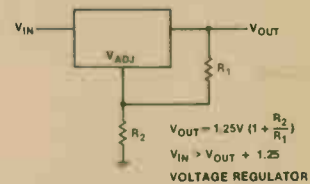


PIN CONNECTIONS



317T

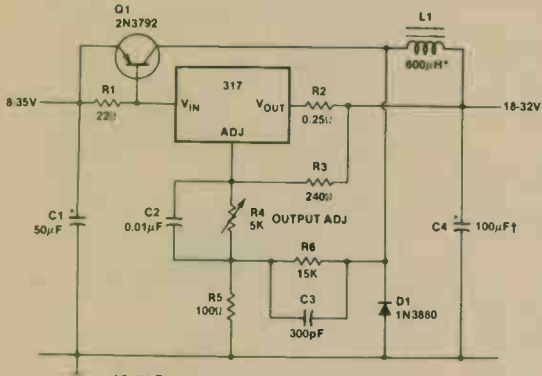
TYPICAL APPLICATIONS



LINEAR (VOLT REG)

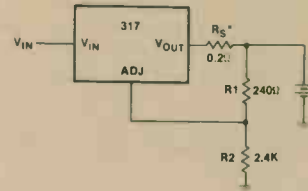
317T 276-1778

TYPICAL APPLICATIONS

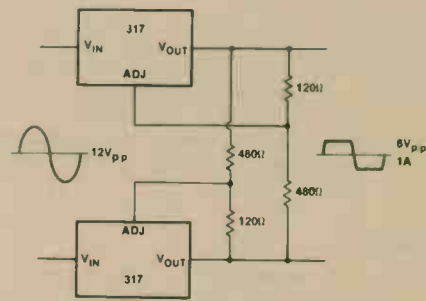


† Solid Tantalum
* Core—Arnold A-254168-2 60 turns

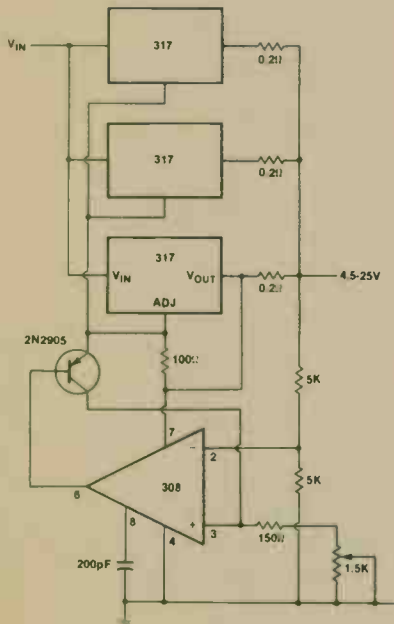
Low Cost 3A Switching Regulator



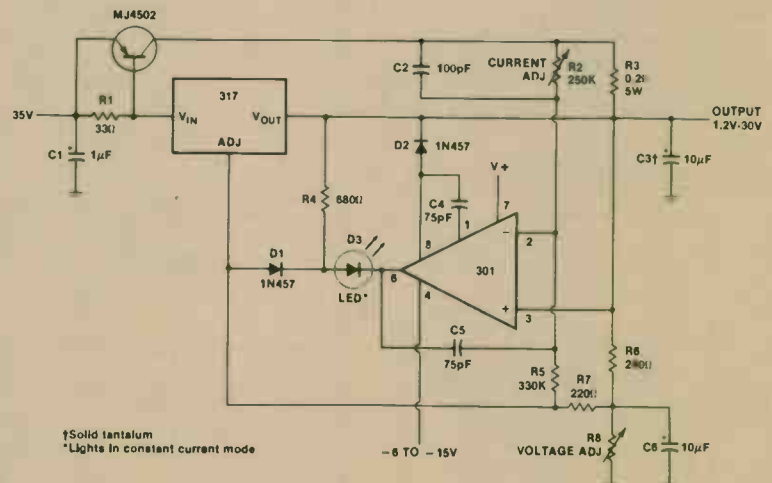
12V Battery Charger



AC Voltage Regulator



Adjustable 4A Regulator



† Solid tantalum
* Lights in constant current mode

5A Constant Voltage/Constant Current Regulator



ADJUSTABLE VOLTAGE REGULATOR

723
276-1740

GENERAL DESCRIPTION

The 723 is a voltage regulator designed primarily for series regulator applications. By itself, it will supply output currents up to 150 mA; but external transistors can be added to provide any desired load current. The circuit features extremely low standby current drain, and provision is made for either linear or foldback current limiting.

FEATURES

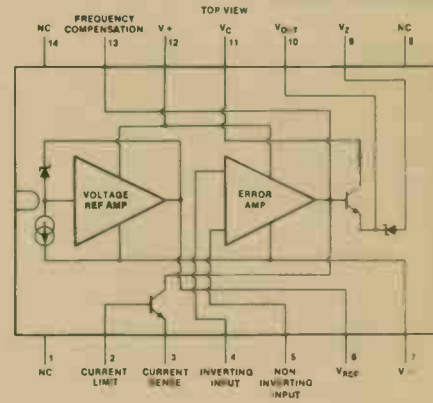
- 150 mA output current without external pass transistor
- Input voltage 40V max
- Output voltage adjustable from 2V to 37V
- Can be used as either a linear or a switching regulator

The 723 is also useful in a wide range of other applications such as a shunt regulator, a current regulator or a temperature controller.

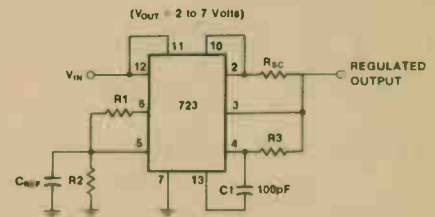
ABSOLUTE MAXIMUM RATINGS

Pulse Voltage from V^+ to V^- (50 ms)	50V
Continuous Voltage from V^+ to V^-	40V
Input-Output Voltage Differential	40V
Maximum Amplifier Input Voltage (Either Input)	7.5V
Maximum Amplifier Input Voltage (Differential)	5V
Current from V_Z	25 mA
Current from V_{REF}	15 mA
Internal Power Dissipation Metal Can	800 mW
Cavity DIP	900 mW
Molded DIP	660 mW
Operating Temperature Range	0 to +70°C
Storage Temperature Range Metal Can	-65 to +150°C
DIP	-55 to +125°C
Lead Temperature (Soldering, 10 sec)	300°C

PIN CONNECTION

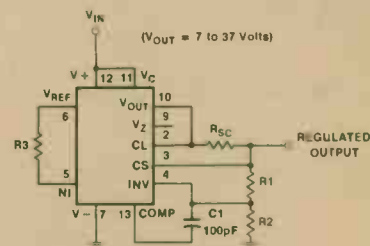


TYPICAL APPLICATIONS



TYPICAL PERFORMANCE
 Regulated Output Voltage 5V
 Line Regulation ($\Delta V_{IN} = 3V$) 0.5mV
 Load Regulation ($\Delta I_L = 50mA$) 1.5mV
 Note: $R_3 = \frac{R_1 R_2}{R_1 + R_2}$ for minimum temperature drift

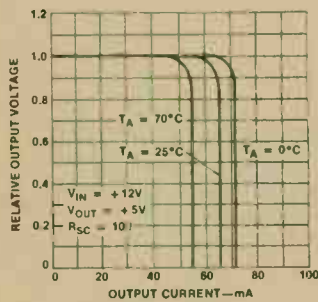
Basic Low Voltage Regulator



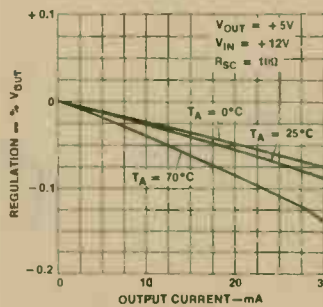
TYPICAL PERFORMANCE
 Regulated Output Voltage 15V
 Line Regulation ($\Delta V_{IN} = 3V$) 1.5mV
 Load Regulation ($\Delta I_L = 50mA$) 4.5mV
 Note: $R_3 = \frac{R_1 R_2}{R_1 + R_2}$ for minimum temperature drift

Basic High Voltage Regulator

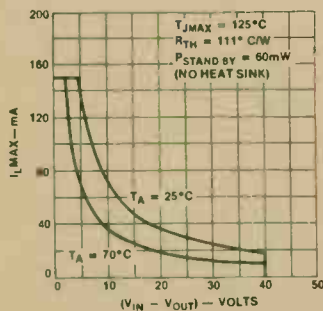
TYPICAL CHARACTERISTICS



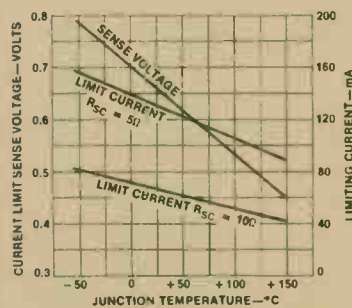
Relative Output Voltage vs Output Current



Load Regulation vs Output Current



Maximum Load Current vs Input-Output Voltage Differential



Current Limit Sense Voltage vs Junction Temperature

LINEAR (VOLT REG)

7805
276-1770

7812
276-1771

7815
276-1772

5V VOLTAGE REGULATOR

12V VOLTAGE REGULATOR

15V VOLTAGE REGULATOR

GENERAL DESCRIPTION

This series of three terminal regulators is available with several fixed output voltages making them useful in a wide range of applications. One of these is local on card regulation, eliminating the distribution problems associated with single point regulation. The voltages available allow these regulators to be used in logic systems, instrumentation, HiFi, and other solid state electronic equipment. Although designed primarily as fixed voltage regulators these devices can be used with external components to obtain adjustable voltages and currents.

This series will allow over 1.5A load current if adequate heat sinking is provided. Current limiting is included to limit the peak output current to a safe value. Safe area protection for the output transistor is provided to limit internal power dissipation. If internal power dissipation becomes too high for the heat sinking provided, the thermal shutdown circuit takes over preventing the IC from overheating.

FEATURES

- Internal thermal overload protection
- No external components required
- Output transistor safe area protection
- Internal short circuit current limit

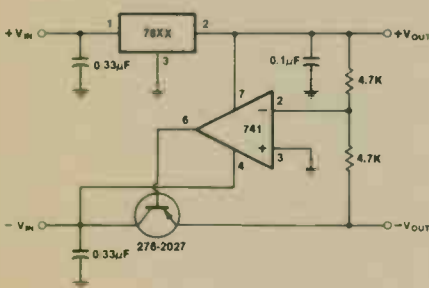
VOLTAGE RANGE

7805	5V
7812	12V
7815	15V

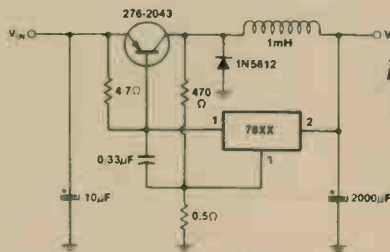
ABSOLUTE MAXIMUM RATINGS

Input Voltage	
(Output Voltage Options 5V through 18V)	35V
(Output Voltage Option 24V)	40V
Internal Power Dissipation	Internally Limited
Maximum Junction Temperature	150°C
Operating Temperature Range	0 to +70°C
Storage Temperature Range	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

TYPICAL APPLICATIONS

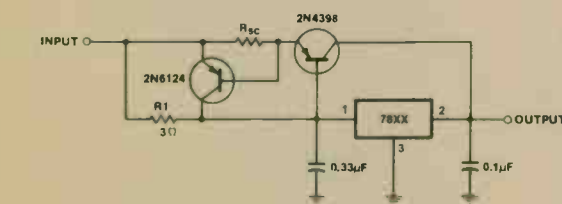


±Tracking Voltage Regulator

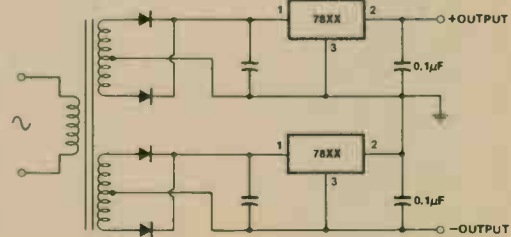


Switching Regulator

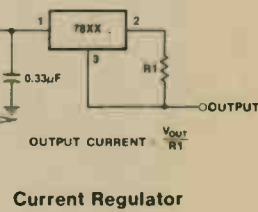
PIN CONNECTION



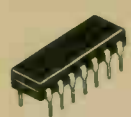
High Output Current, Short Circuit Protected



Positive and Negative Regulator



Current Regulator



QUAD COMPARATOR

339
276-1712

GENERAL DESCRIPTION

The 339 series consists of four independent voltage comparators which were designed specifically to operate from a single power supply over a wide range of voltages. Operation from split power supplies is also possible and the low power supply current drain is independent of the magnitude of the power supply voltage. These comparators also have a unique characteristic in that the input common-mode voltage range includes ground, even though operated from a single power supply voltage.

FEATURES

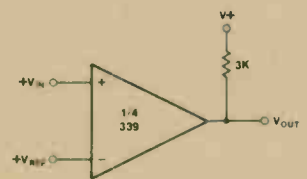
- Wide single supply: Voltage range $2 V_{DC}$ to $32 V_{DC}$ or dual supplies $\pm 16 V_{DC}$ to $\pm 16 V_{DC}$.
- Very low supply current drain (0.8 mA)—independent of supply voltage (1 mW/comparator at $+5 V_{DC}$)
- Input common-mode voltage range includes ground
- Differential input voltage range equal to the power supply voltage
- Low output 1 mV at $5 \mu A$; saturation voltage 70 mV at 1 mA
- Output voltage compatible with TTL (fanout of 2), DTL, ECL, MOS and CMOS logic systems

ABSOLUTE MAXIMUM RATINGS

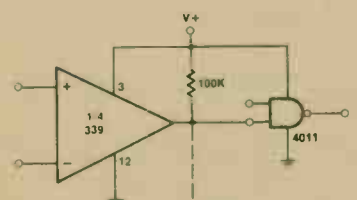
Supply Voltage, $V+$	$32 V_{DC}$ or $\pm 16 V_{DC}$
Differential Input Voltage	$36 V_{DC}$
Input Voltage	$-0.3 V_{DC}$ to $-36 V_{DC}$
Power Dissipation	
Molded DIP	570 mW
Cavity DIP	900 mW
Output Short-Circuit to GND	Continuous
Input Current ($V_{IN} = -0.3 V_{DC}$)	50 mA
Operating Temperature Range	0 to $+70^\circ C$
Storage Temperature Range	-65 to $+150^\circ C$
Lead Temperature (Soldering, 10 seconds)	$300^\circ C$

TYPICAL APPLICATIONS

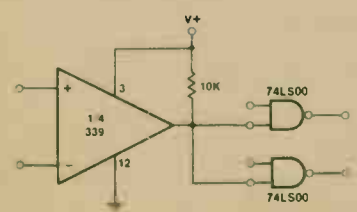
5 VOLT GROUP



Basic Comparator

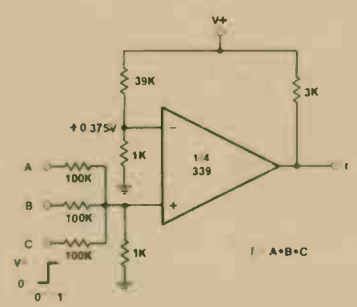


Driving CMOS

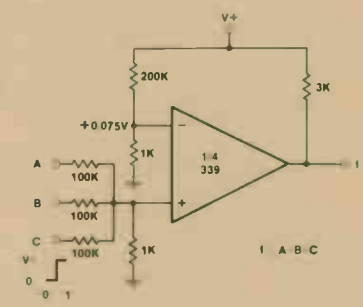


Driving TTL

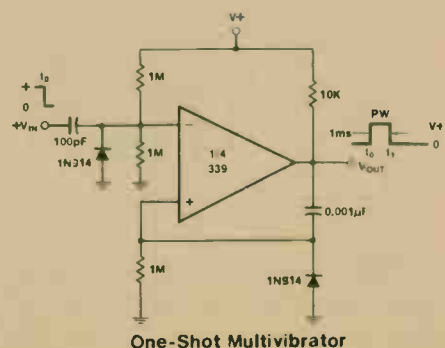
15V GROUP



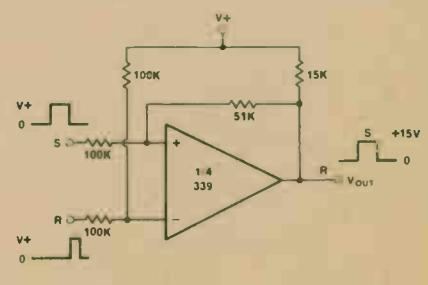
AND Gate



OR Gate

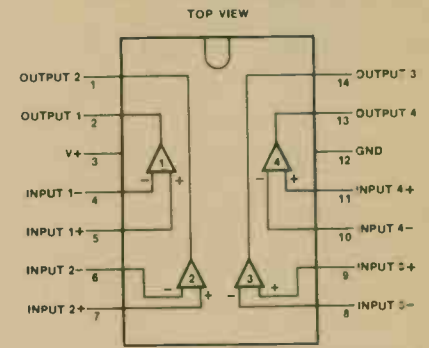


One-Shot Multivibrator

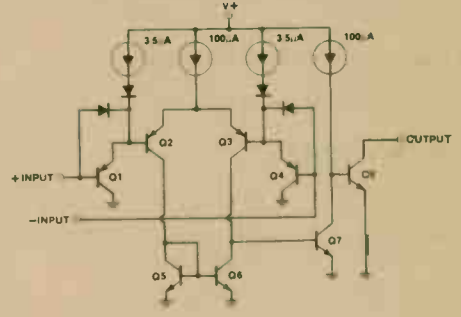


Bi-Stable Multivibrator

PIN CONNECTION

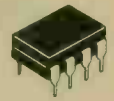


INTERNAL CIRCUIT



3909
276-1705

LED FLASHER/OSCILLATOR



GENERAL DESCRIPTION

The 3909 is a monolithic oscillator specifically designed to flash light emitting diodes. By using the timing capacitor for voltage boost, it delivers pulses of 2 or more volts to the LED while operating on a supply of 1.5V or less. The circuit is inherently self-starting, and requires addition of only a battery and capacitor to function as a LED flasher.

It has been optimized for low power drain and operation from weak batteries so that continuous operation life exceeds that expected from battery rating.

Application is made simple by inclusion of internal timing resistors and an internal LED current limit resistor.

Timing capacitors will generally be of the electrolytic type, and a small 3V rated part will be suitable for any LED flasher using a supply up to 6V. However, when picking flash rates, it should be remembered that some electrolytics have very broad capacitance tolerances, for example -20% to +100%.

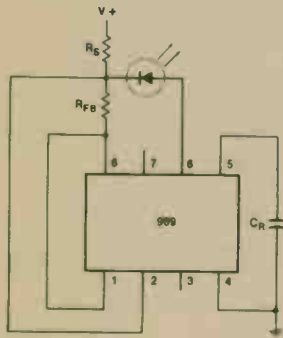
FEATURES

- Operation over one year from one C size flashlight cell
- Bright, high current LED pulse
- Minimum external parts
- Low voltage operation, from just over 1V to 5V
- Low current drain, averages under 0.5 mA during battery life
- Powerful: as an oscillator directly drives an 8Ω speaker

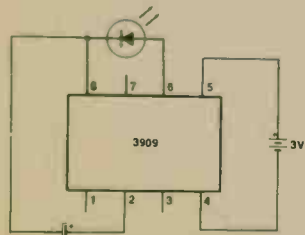
ABSOLUTE MAXIMUM RATINGS

Power Dissipation	500 mW
V+ Voltage	6.4V
Pulse Width	6 ms
Peak LED Current	45 mA
Operating Current	75 mA
Flash Frequency	1.3 Hz
High Flash Frequency	1.1 kHz
Operating Temperature Range	-25 to +70°C

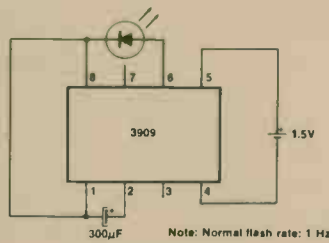
TYPICAL APPLICATIONS



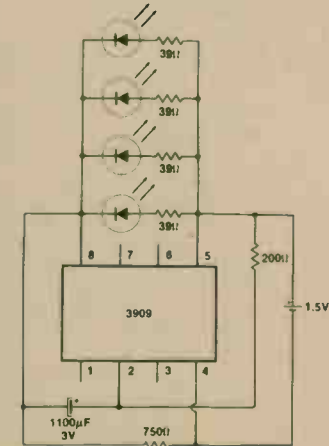
Warning Flasher High Voltage Powered



3V Flasher

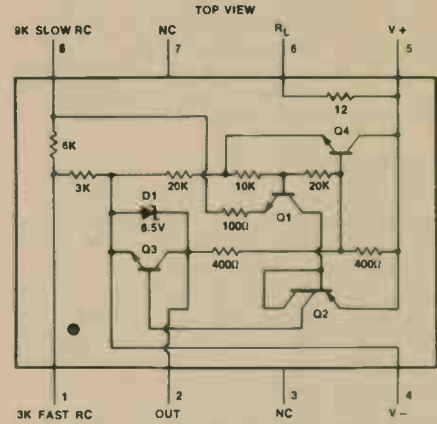


1.5V Flasher

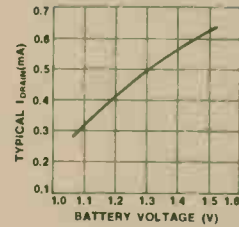


Parallel LED's

PIN CONNECTION



TYPICAL CHARACTERISTICS



Drain Current vs Battery Voltage

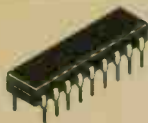
ESTIMATED BATTERY LIFE (CONTINUOUS 1.5V FLASHER OPERATION)

SIZE CELL	TYPE	
	STANDARD	ALKALINE
AA	3 MONTHS	6 MONTHS
C	7 MONTHS	15 MONTHS
D	1.3 YEARS	2.6 YEARS

Note: Estimates are made from our tests and manufacturers data. Conditions are fresh batteries and room temperature. Clad or "leak-proof" batteries are recommended for any application of five months or more. Nickel Cadmium cells are not recommended.

TYPICAL OPERATING CONDITIONS

V+	NORMAL FLASH Hz	C _T	R _S 1W	R _{FB}	V+ RANGE
6V	2	400µF	1K	1.5K	5-25V
15V	2	180µF	3.9K	1K	13-50V
100V	1.7	180µF	43K	1K	85-200V



5V LOW-POWER DTMF RECEIVER

SSI202
276-1303

GENERAL DESCRIPTION

The SSI 202 is a complete Dual Tone Multiple Frequency (DTMF) receiver detecting a selectable group of 12 or 16 standard digits. No front-end pre-filtering is needed. The only externally required components are an inexpensive 3.58-MHz television "colorburst" crystal (for frequency reference) and a bias resistor. Extremely high system density is made possible by using the clock output of a crystal connected SSI 202 receiver to drive the time bases of additional receivers. The SSI 202 uses a monolithic integrated circuit fabricated with low-power, complementary symmetry MOS (CMOS) processing. It requires only a single low tolerance voltage supply.

The SSI 202 employs state-of-the-art circuit technology to combine digital and analog functions on the same CMOS chip using a standard digital semiconductor process. The analog input is pre-processed by 60-Hz reject and band splitting filters and then hard-limited to provide AGC. Eight bandpass filters detect the individual tones. The digital post-processor times the tone durations and provides the correctly coded digital outputs. Outputs interface directly to standard CMOS circuitry, and are three-state enabled to facilitate bus-oriented architectures.

FEATURES

- NO front-end band-splitting filters required
- Single, low-tolerance, 5-volt supply
- Detects either 12 or 16 standard DTMF digits
- Uses inexpensive 3.579545-MHz crystal for reference
- Excellent speech immunity
- Output in either 4-bit hexadecimal code or binary coded 2 of 8
- Synchronous or handshake interface
- Three-state outputs

ABSOLUTE MAXIMUM RATINGS*

Supply Voltage (DC)	7V
Input Voltage (All Inputs Except Analog In)	-.5V to +.5V
Analog In Voltage	-10V to +.5V
DC Current Into Any Input	±1.0 MA
Power Dissipation (Note 1)	65 MW
Operating Temperature	0°C to 70°C
Storage Temperature	-65°C to 150°C

* All unused inputs must be connected to V_p or GND as appropriate.
Note 1: Operate above 25°C @ 6.25 mw/°C

ANALOG IN

This pin accepts the analog input. It is internally biased so that the input signal may be AC coupled. The input may be DC coupled as long as it does not exceed the positive supply. Proper input coupling is illustrated in Fig. 1.

The SSI 202 is designed to accept sinusoidal input wave forms but will operate satisfactorily with any input that has the correct fundamental frequency with harmonics greater than 20 dB below the fundamental.

CRYSTAL OSCILLATOR

The SSI 202 contains an onboard inverter with sufficient gain to provide oscillation when connected to a low-cost television "color-burst" crystal. The crystal oscillator is enabled by tying XEN high. The crystal is connected between XIN and XOUT. A 1 MΩ 10% resistor is also connected between these pins. In this mode, ATB is a clock frequency output. Other SSI 202's may use the same frequency reference by tying their ATB pins to the ATB of a crystal-connected device. XIN and XEN of the auxiliary devices must then be tied high and low respectively. Ten devices may run off a single crystal-connected SSI 202.

PIN CONNECTION

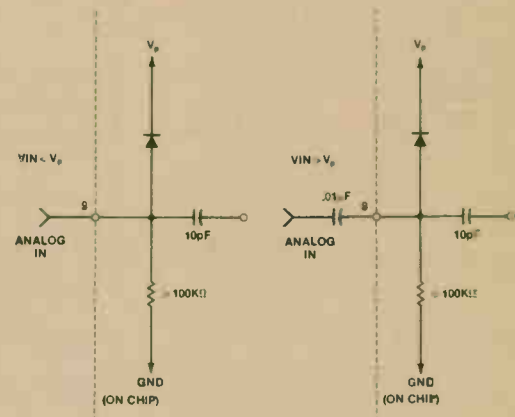
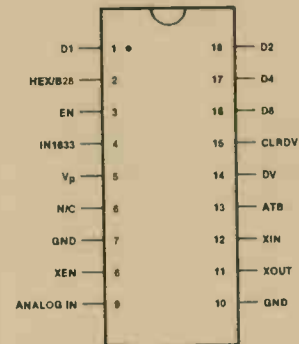
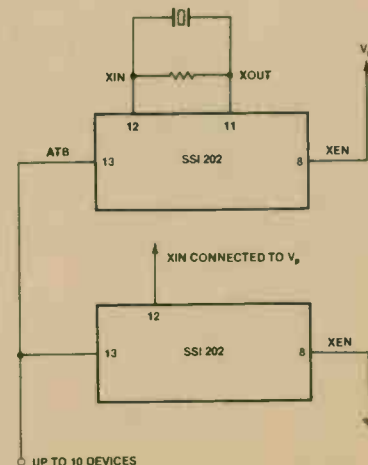
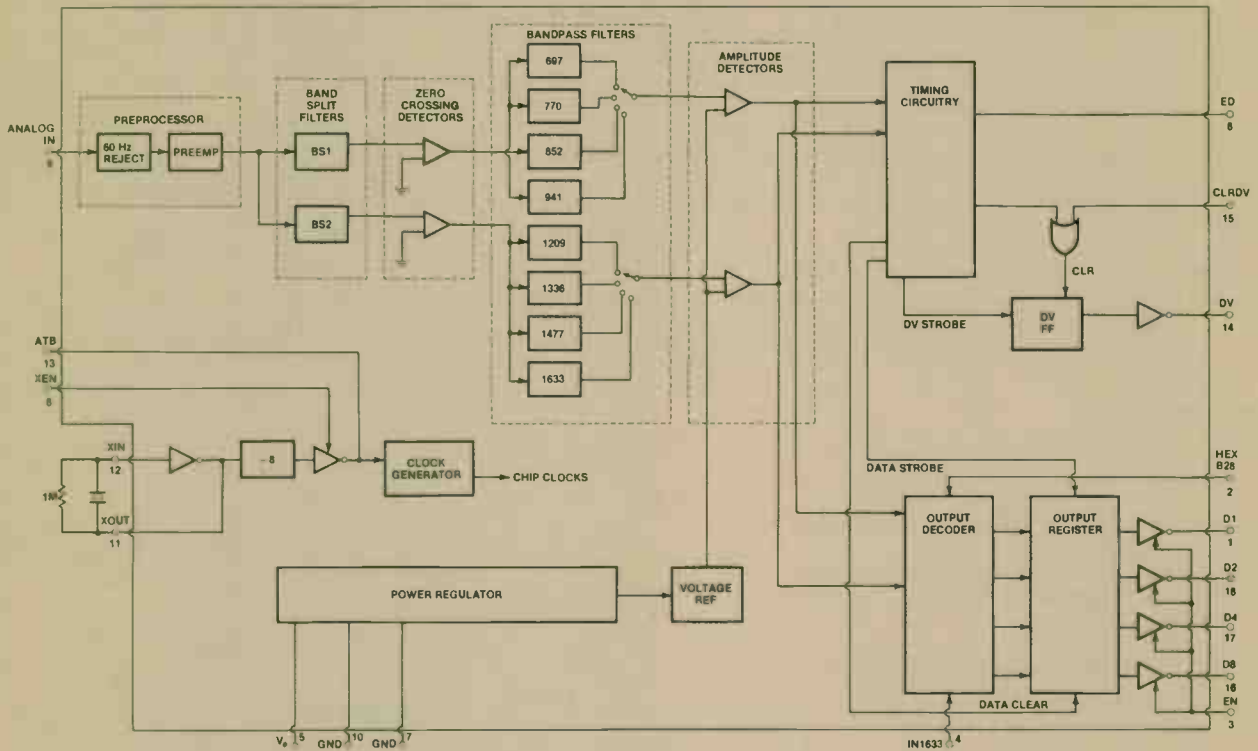


Fig. 1



SSI202 276-1303

Block Diagram



HEX/B28

This pin selects the format of the digital output code. When HEX/B28 is tied high, the output is hexadecimal. When tied low, the output is binary coded 2 of 8. The table below describes the two output codes.

Digit	Hexadecimal				Binary Coded 2 of 8			
	D8	D4	D2	D1	D8	D4	D2	D1
1	0	0	0	1	0	0	0	0
2	0	0	1	0	0	0	0	1
3	0	0	1	1	0	0	1	0
4	0	1	0	0	0	1	0	0
5	0	1	0	1	0	1	0	1
6	0	1	1	0	0	1	1	0
7	0	1	1	1	1	0	0	0
8	1	0	0	0	1	0	0	1
9	1	0	0	1	1	0	1	0
0	1	0	1	0	1	1	0	1
*	1	0	1	1	1	1	0	0
#	1	1	0	0	1	1	1	0
A	1	1	0	1	0	0	1	1
B	1	1	1	0	0	1	1	1
C	1	1	1	1	1	0	1	1
D	0	0	0	0	1	1	1	1

IN1633

When tied high, this pin inhibits detection of tone pairs containing the 1633-Hz component. For detection of all 16 standard digits, IN1633 must be tied low.

OUTPUTS D1, D2, D4, D8 and EN

Outputs D1, D2, D4, D8 are CMOS push-pull when enabled (EN high) and open circuited (high impedance) when disabled by pulling EN low. These digital outputs provide the code corresponding to the detected digit in the format programmed by the HEX/B28 pin. The digital outputs become valid after a tone pair has been detected and they are then cleared when a valid pause is timed.

DV and CLRDV

DV signals a detection by going high after a valid tone pair is sensed and decoded at the output pins D1, D2, D4, D8. DV remains high until a valid pause occurs or the CLRDV is raised high, whichever is earlier.

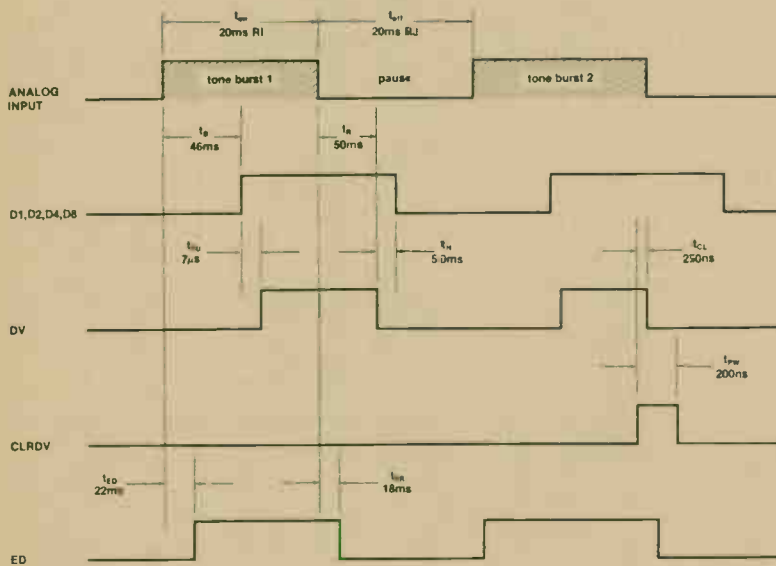
N/C PINS

These pins have no internal connection and may be left floating.

DETECTION FREQUENCY

Low Group f_0	High Group f_0
Row 0 = 697 Hz	Column 0 = 1209 Hz
Row 1 = 770 Hz	Column 1 = 1336 Hz
Row 2 = 852 Hz	Column 2 = 1477 Hz
Row 3 = 941 Hz	Column 3 = 1633 Hz

SSI 202 TIMING



TDA7000
276-1304

FM RECEIVER



GENERAL DESCRIPTION

The TDA7000 is a monolithic integrated circuit for mono FM portable radios, where a minimum of peripheral components is important (small dimensions and low costs).

The IC has an FLL (Frequency-Locked-Loop) system with an intermediate frequency of 70 kHz. The i.f. selectivity is obtained by active RC filters. The only function which needs alignment is the resonant circuit for the oscillator, thus selecting the reception frequency. Spurious reception is avoided by means of a mute circuit, which also eliminates too noisy input signals. Special precautions are taken to meet the radiation requirements.

The TDA7000 includes the R.F. input stage, mixer, local oscillator, I.F. amplifier/limiter, phase demodulator, mute detector and mute switch.

ABSOLUTE MAXIMUM RATINGS

Supply voltage range (pin 5) (V_p)	12 V
Supply current at $V_p = 4.5$ V (IP)	8 mA
Power	(See power derating curve)
R.F. input frequency range (f_{rf})	1.5 to 110 MHz

PIN CONNECTION



PIN	FUNCTION
1	Muting Capacitor
2	Audio frequency output
3	Noise source
4	Loop filter capacitor
5	Supply voltage
6	VCO
7	1st integrator capacitor*
8	2nd integrator capacitor
9	1st integrator capacitor*
10	IF filter capacitor (to pin 11)
11	IF filter capacitor
12	IF limiter capacitor
13	RF input
14	Mixer
15	Current source capacitor
16	Ground
17	Demodulator capacitor
18	Correlator capacitor

*Connects between Pins 7 and 9.

TYPICAL APPLICATIONS

AUDIO AMPLIFIER AND DETUNING INDICATOR

CIRCUITS

Audio output stages suitable for use with the TDA7000 are shown in Fig. E and F. Figure G shows how the muting signal can be used to operate a LED to give an indication of detuning.

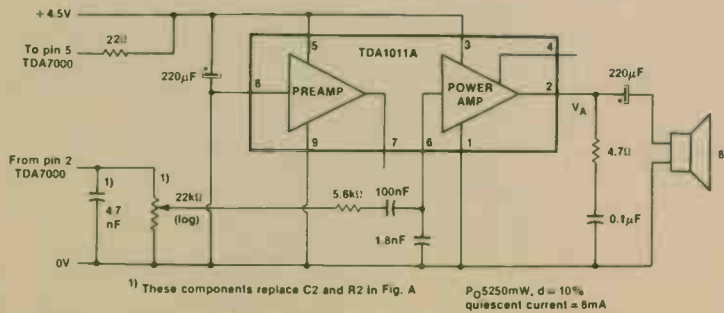


Fig. F An integrated 250mW audio output stage

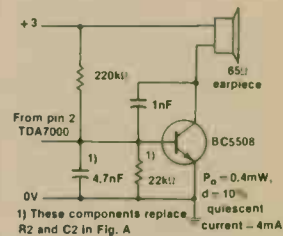


Fig. E A 0.4mW transistor audio output stage without volume control for driving an earpiece.

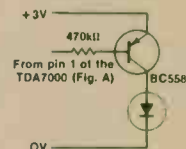


Fig. G A detuning indicator driven by the mute signal from the TDA7000.

TYPICAL APPLICATION

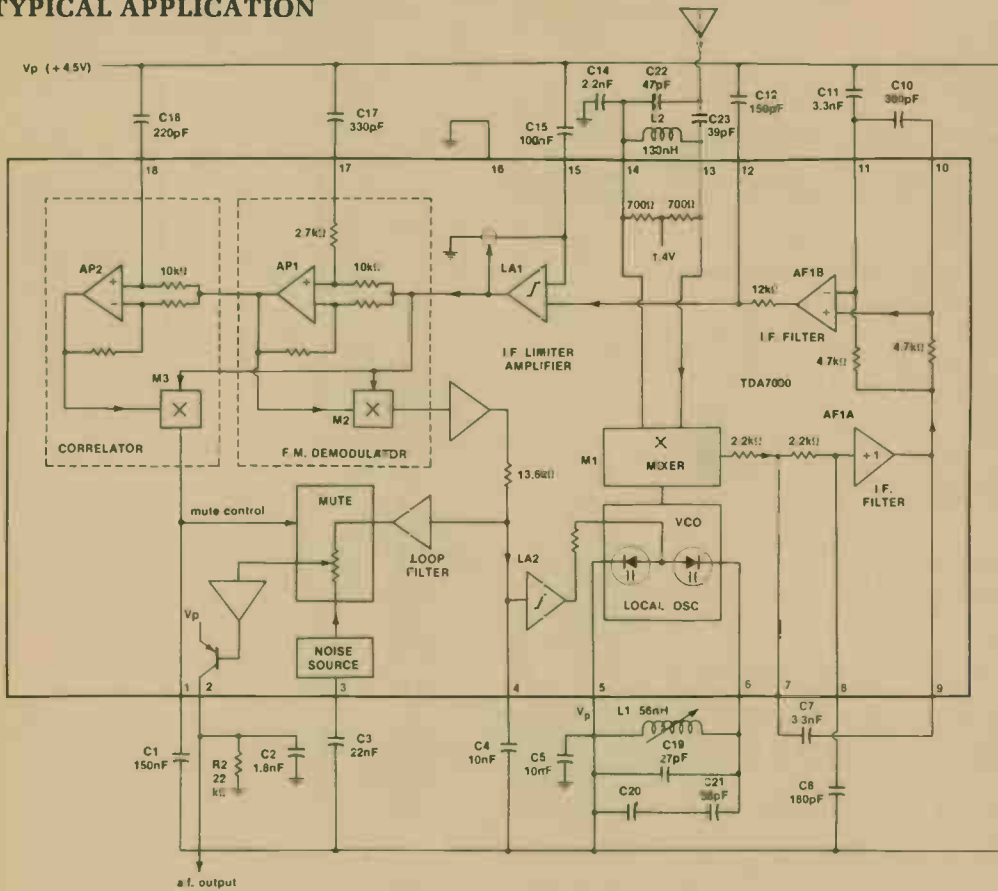


Fig A The TDA7000 as a variable capacitor tuned f.m. broadcast monitor

C₁₂, C₁₇ and C₁₈:
 Filter and demodulator capacitors. The values shown are for an i.f. of 70 kHz. For other intermediate frequencies, the values of these capacitors must be changed in inverse proportion to the i.f. change.

C₁₄:
 Decouples the reverse r.f. input. It must be connected to the common return via a good quality short connection to ensure a low-impedance path. Inductive or capacitive coupling between C₁₄ and the local-oscillator circuit or i.f. output components must be avoided.

C₁₅:
 Decouples the d.c. feedback for i.f. limiter/amplifier LA1.

C₁₉ and C₂₁:
 Local-oscillator tuning capacitors. Their values depend on the required tuning range and on the value of tuning capacitor C₂₀.

C₂₃, C₂₃, L₁, L₂:
 The values given are for an r.f. bandpass filter with Q = 4 for the European and U.S.A. domestic f.m. broadcast band (87.5 MHz to 108 MHz). For reception of the Japanese f.m. broadcast band (76 MHz to 91 MHz), L₁ must be increased to 78 nH and L₂ must be increased to 150 nH. If stopband attenuation for high level a.m. or tv signals is not required, L₂ and C₂₂ can be omitted and C₂₃ changed to 220 pF.

R₂:
 The load for the audio output current source. It determines the audio output level, but its value must not exceed 22 kΩ for V_p = 4.5 V, or 47 kΩ for V_p = 9 V.

TDA7000 276-1304

TYPICAL APPLICATIONS

Circuit with variable-capacitance diode tuning

Since it is only necessary to tune the local-oscillator coil, it is very simple to modify the circuit of Fig. A for variable-capacitance diode tuning. The modifications are shown in Fig. B.

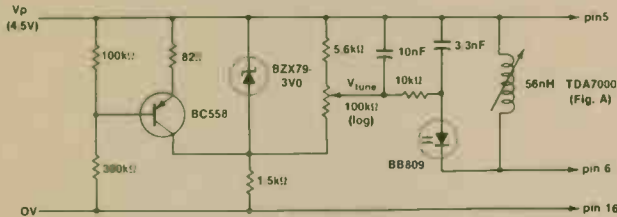


Fig. B Variable-capacitance diode tuning for the local-oscillator. Additional measures must be taken to ensure temperature stability.

Narrow-band f.m. receiver

The TDA7000 can also be used for reception of narrow-band f.m. signals. In this case, the local-oscillator is crystal-controlled as shown in Fig. C and there is therefore hardly any compression of the i.f. swing by the FLL. The deviation of the transmitted carrier frequency due to modulation must therefore be limited to prevent severe distortion of the demodulated audio signal.

The component values in Fig. C result in an i.f. of 4.5 kHz and an i.f. bandwidth of 5 kHz (Fig. D). If the i.f. is multiplied by N, the values of capacitors C₁₇ and C₁₈ in the all-pass filters and the values of filter capacitors C₇, C₈, C₁₀, C₁₀, C₁₁, and C₁₂ must be multiplied by 1/N. For improved i.f. selectivity to achieve greater adjacent channel attenuation, second-order networks can be used in place of C₁₀ and C₁₁.

In this circuit the detuning noise generator is not used. Since the circuit is mainly for reception of audio signals, the audio output must be passed through a low-pass Chebyshev filter to suppress i.f. harmonics.

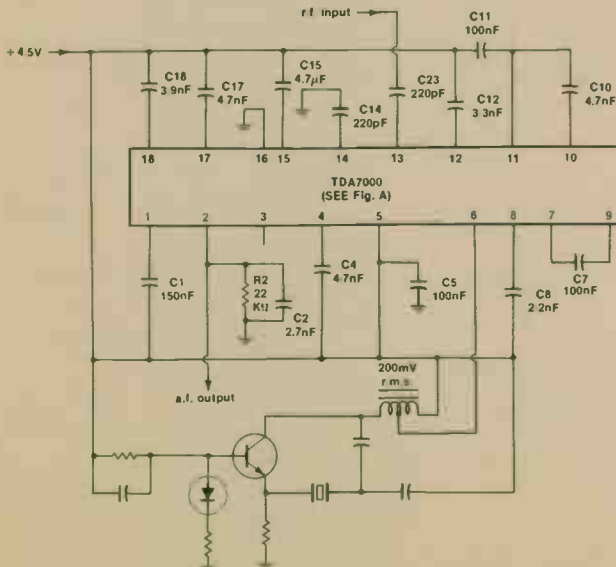


Fig. C A narrow-band f.m. receiver with a crystal-controlled local oscillator.

TYPICAL CHARACTERISTICS

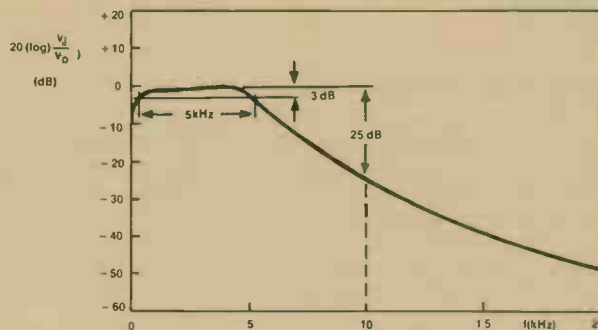
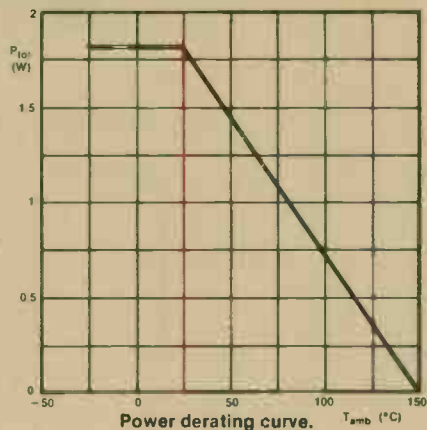


Fig. D IF selectivity for the narrow band f.m. receiver.

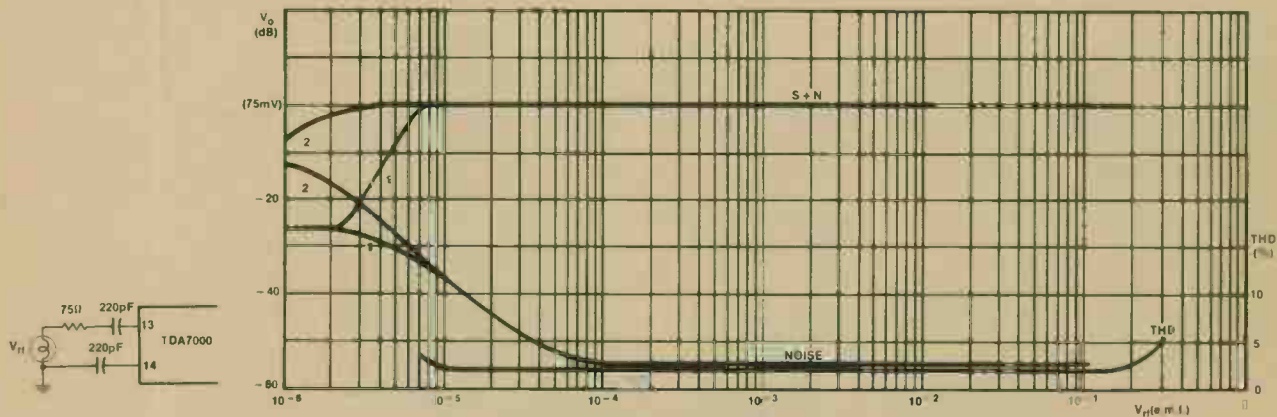
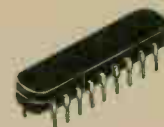


Fig. H Audio output as a function of input e.m.f. The curves numbered 1 were measured with the muting system active. The curves numbered 2 were measured with the muting system disabled by injecting about 20 μ A into pin 1 of the TDA7000. The input frequency was 96 MHz modulated with 1 kHz with a deviation of ± 22.5 kHz for the output level curves, and ± 75 kHz for the distortion curve.

WORD RECOGNIZER

VCP200
276-1308

SPEAKER-INDEPENDENT WORD RECOGNIZER



GENERAL DESCRIPTION

The VCP200 is a speech recognizer IC that recognizes a limited number of spoken commands, regardless of the person speaking. It identifies commands by breaking the words into broad phoneme classes, and then recognizing pre-determined strings of these classes. The VCP200 performs a spectral analysis of the incoming speech signal over the range of 300 Hz to 5500 Hz, determines the membership of phoneme classes based on spectral shape, forms strings of these classes, and compares the strings to the stored strings of selected commands. The VCP200 recognizes the selected commands, regardless of who spoke them, in real time.

The VCP200 has two speech recognition modes. In the Command Mode, it recognizes five motion commands: *go*, *stop*, *left turn*, *turn right*, and *reverse*. In the Yes-No/On-Off Mode, it recognizes two commands: either *yes* and *no* or *on* and *off*. When the given command is recognized, the associated output for that command provides a latched logic low, capable of sinking up to 10 mA. In the Yes-No/On-Off Mode, a third output indicates no recognition.

The VCP200 is designed for use in a relatively quiet environment. Constant background noise such as fans, air conditioning, or motors can usually be accommodated by adjusting the input amplifier's gain so that the output signal at the second amplifier does not exceed 1 volt peak-to-peak with no speech input. Intermittent noises such as slamming doors, loud music, or construction sounds are harder to deal with. A close-talking, noise-canceling microphone helps, although occasional misrecognition might still occur. In general, the lower the level of outside noises, the better the VCP200 performs.

The location of the microphone relative to the person speaking also affects performance and is dependent on the background noise. The quieter the noise level, the greater the microphone's usable distance. Good performance at up to 2 feet is common for quiet areas. It might help to experiment with several microphones to optimize performance. It might also help to change the frequency/gain characteristics of the input amplifiers to compensate for the high-frequency loss (greater than 4 kHz) as distance increases.

While the VCP200 ignores some words not in its vocabulary, it was designed with the assumption that it need only discriminate among the programmed commands. As a result, words that are not in the VCP200's vocabulary are sometimes identified as being commands, but commands are rarely confused with each other. If the VCP200 must function in the presence of other spoken words, it should be disabled until a command is expected by either bringing Pin 20 low or by using a push-to-talk switch on the microphone.

FEATURES

- Recognizes five motion commands: *go*, *stop*, *reverse*, *turn right*, and *left turn* or two commands: *yes* and *no* or *on* and *off*.
- Active low outputs can sink up to 10 mA.
- Powered from a single 5V supply.
- Uses clipped analog input so you do not need an analog-to-digital conversion circuit.
- Requires minimal support hardware.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage (V _{CC})	.....	- 0.3 to + 7.0V
Input Voltage (V _{IN})	.....	- 0.3 to + 7.0V
Operating Temperature Range (T _A)	.....	0 to 70°C
Storage Temperature Range (T _{stg})	.....	- 55 to 150°C

PIN CONNECTION

Ground	1	20	RESET
No Op (Vcc)	2	19	Command/ Yes-No, On-Off Mode
Vcc	3	18	No Op (Ground)
XTAL	4	17	No Op (Vcc)
EXTAL	5	16	No Op (Vcc)
No Op (Ground)	6	15	No Op (Float)
Audio In	7	14	LEFT TURN
GO/NO-ON	8	13	No Op (Float)
TURN RIGHT/YES-OFF	9	12	STOP
REVERSE/NOT SURE	10	11	No Op (Float)

Application Information

The schematics on the following page provide complete information for implementing the VCP200 in a user application. In addition, a complete printed circuit board layout is provided for construction of a sample circuit.

Note that the values selected for the audio input amplifier cause the amplifier to deliver an extremely clipped square-wave representation of the microphone input. The gain and frequency characteristics of the amplifier can be adjusted to provide better rejection of background noise by selecting the appropriate components.

Once you have constructed a working circuit, there are some things you can do to make the VCP200 work more consistently. It is important that you use the microphone properly. Hold the microphone close to (about 1 inch) and directly in front of your mouth. Point the microphone directly into your mouth so that you are speaking into, rather than across the top of, the microphone. Remember, the final signal into the VCP200 is extremely clipped. It is not a signal that you would input to an amplifier, because the distortion would make the signal nearly unintelligible. You will find that if the VCP200 is having trouble understanding a command, talking louder usually helps, because this causes the signal to clip even more, and provides a sharper transition between phoneme classes. Take the time to experiment with your microphone technique. Once you get this right, you will find that the system operates very well.

As noted earlier, the VCP200 has two different recognition modes. The Command Mode is enabled by bringing Pin 19 low. In this mode, the VCP200 recognizes the commands *go*, *stop*, *reverse*, *left turn*, and *turn right*. The Yes-No/On-Off Mode is enabled by bringing Pin 19 high. In this mode, three outputs indicate the recognition of *yes* or *off*, *no* or *on*, or unrecognized.

Here are a few pointers on how to help the VCP200 understand you better.

GO—Remember that this is a short word. This is the most easily recognized of the five words in the command mode.

LEFT TURN—Note that this command consists of two words. Speak them with a normal separation between the words, and pronounce both t's.

TURN RIGHT—This command also consists of two words. For this command, however, try running the words together. Also, emphasize the beginning and ending t's. If the VCP200 confuses this command with LEFT TURN, try speaking a little louder.

REVERSE—This is the most difficult word for the VCP200 to properly recognize. Be sure to pronounce the first e and slightly emphasize the final s.

STOP—Emphasize each of the four sounds that make up this word; especially the initial s and the final p.

In the Yes-No/On-Off Mode, the VCP200 has virtually no trouble distinguishing between the two words. This mode works with either word pair because of the similarity between yes and off, and between on and no. Be sure to pronounce the final sound ("sss" or "fff") in yes and off, and you should have no problem.

The first few times you use the VCP200 you might have a little trouble. Just as it is difficult to understand someone that pronounces words a little differently, your VCP200 might not be able to understand you at first. The difference here is that the VCP200 cannot learn new pronunciations or new words. It is up to you to learn to pronounce the words in a way that the VCP200 can understand. The good thing is that the VCP200 definitely does understand you, once you learn to pronounce the commands correctly.

THEORY OF OPERATION

Your VCP200 uses a technique called *speaker-independent speech recognition*. Speaker-independent means that the VCP200 is designed so that there is a very high probability that it can understand anyone who can properly pronounce the words in its vocabulary. This differs significantly from the more common form of speech recognition which is called *speaker-dependent speech recognition*. In speaker-dependent speech recognition, a user must go through a long training process to teach the machine to recognize the words. After training, the machine can recognize that person with a high degree of accuracy, but it does not do nearly as well when a person other than the one that trained it tries to use it, or even when the person that trained it is hoarse. Also, with speaker-dependent recognition, the training must be repeated if, for some reason, electrical power is removed from the microprocessor. You never have to train your VCP200. It never forgets the words it is programmed to understand.

Note: The following are suggested values for the amplifier section covered on the next page. Some component values are not available at Radio Shack stores.

C ₁.....	.22 μf
C ₂	47 pf (Maximum Value)
C ₃.....	.22 μf
C ₄	01 μf (Optional)
C ₅	47 pf (Maximum Value)
C ₆	1 mf
C ₇	1 mf
C ₁₂ ..	.01 mf (Not for close talking microphone)
R ₁	1K
R ₂	2.2K
R ₃	10K (Not for close talking microphone)
R ₄	470K
R ₅	1K
R ₆	10K
R ₇	470k (Adjust up or down to adjust gain)
R ₈	10 Meg
CR1	Cat. No. 276-1122
IC1.....	LM324 (Cat. No. 276-1711)
LEDs	Cat. No. 276-041 or equiv.
Electret Microphone.....	Cat. No. 270-092

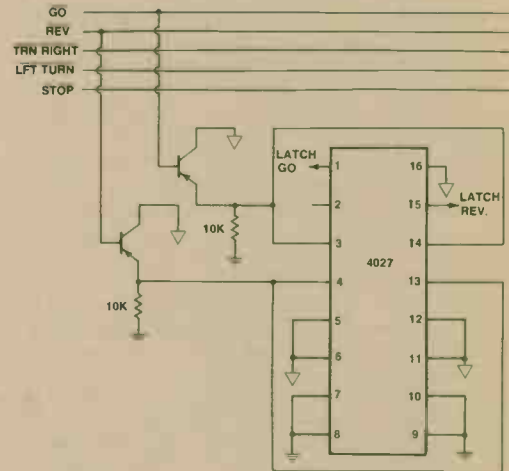
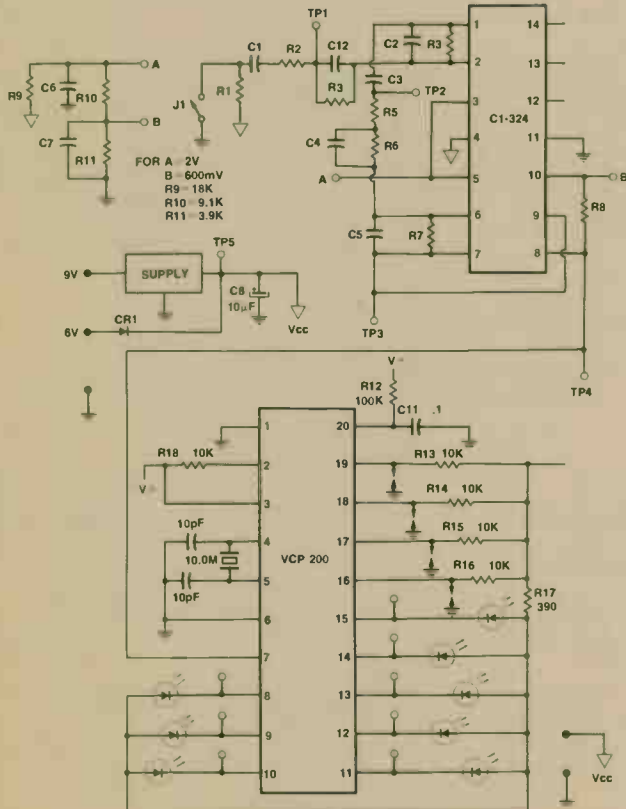
VCP200 276-1308

THEORY OF OPERATION CONT'D.

Basically, the success of speaker-independent speech recognition depends on two factors. The first factor is that a properly pronounced word, after analysis, gives a very similar pattern regardless of who says the word. The second factor is that the words your device is trying to recognize must sound as different as possible, while still being consistent with the purposes of the device. This is the reason you must say "left turn" and "turn right." If "turn" had come first for both commands, it would have been much more difficult to tell the two commands apart.

Any device designed to perform speaker-independent speech recognition is programmed with only a few words. When it hears a word, it searches through its set to see if the word is one it recognizes. If there is any question, it either rejects the word or picks the command that sounds closest to what it received. This is why it is important in the design to pick words that sound different. This means that when you try to fool the VCP200 you will succeed, because it was not designed to recognize all words. It was designed to recognize specific words.

TYPICAL APPLICATION



Notes:

1. Always jumper Pin 18 to ground.
2. Do not connect jumper for Pins 16 and 17.
3. An SPST switch on Pin 19 to ground allows you to easily change the mode.
4. If you use a 9-volt supply, you only need the 7805. If you use a 6-volt supply, you only need CR1. You do not need to connect both.
5. If the ambient noise level is low, $R_4 = 30K$, $R_{10} = 10K$, $R_{11} = 10K$ lessens the need to speak loudly.
6. R_4 sets the audio gain and might need to be adjusted, depending on the sensitivity of the microphone you select.

This circuit provides latched outputs for GO and REVERSE. This lets you combine GO or REVERSE with LEFT TURN or TURN RIGHT. Be sure to STOP before switching between GO and REVERSE.

IMPORTANT SUGGESTIONS ON THE USE AND REPLACEMENT OF TRANSISTORS

You can use various styles and sizes of transistors in any given circuit application, as long as the electrical characteristics of the device are within the required range of operation. Thus, a tab-type device can be used to replace a TO-3 or TO-66 case device; or a small epoxy-type device can be used in place of TO-5 or other size transistor.

Generally speaking, you must observe the following maximum characteristics of a transistor when contemplating substitution or selection:

- Power dissipation
- Maximum collector current
- Maximum collector-to-emitter voltage
- Maximum collector-to-base voltage
- Maximum emitter-to-base voltage

Also, it is useful to consider the following characteristics for actual circuit operation:

- Gain
- Frequency limitations

Caution: It may be necessary in some cases to adjust bias values to achieve required operation. With tuned circuits, it is a good practice to check alignment after replacing any transistor.

When replacing power transistors, always check driver devices to be sure they are OK. Also, check other circuit components to be sure they were not shorted (or otherwise defective) when the original device failed. If you fail to correct such problems before applying power to the circuit once again, the replacement transistor could easily be permanently damaged. Be sure to use proper heat-sink precautions and use silicon grease to reduce the thermal resistance between the case of the transistor and the heat-sink.

Always observe temperature limitations as specified with transistor ratings.

It almost goes without saying, but let us remind you anyway—

Always observe voltage polarity with all semiconductor devices.

CROSS-REFERENCE/SUBSTITUTION LISTING

Most users of semiconductors realize that it is almost impossible to guarantee absolute equivalents (as in the case of tubes). Thus, the only way to create replacement or cross-reference listings is by carefully evaluating each characteristic of both devices (original transistor and the possible alternate). This is how the Technical Staff of Radio Shack went about preparing the following cross-reference/replacement lists.

IMPORTANT NOTE

We caution you that in many cases the listed cross reference ARCHER device may be different in appearance, size or mounting style. Thus, before beginning replacement or installation procedures, check to be sure you have enough room for proper mounting.

Also, when making substitutions or replacements in radio or high frequency circuitry, it may be necessary to realign tunable circuit elements. This is true even

when making exact replacements (junction capacitances normally vary between devices even from the same production run).

Information contained in this guide is based on the latest available data and is believed to be accurate. Every care has been taken to assure technical accuracy. However, Radio Shack does not assume responsibility for any contingencies of the use of this information. Nor does Radio Shack assume any responsibility for any infringements of patents or other rights of third parties which may result from its use.

When you are looking for a specific number and it does not show up in the following listing—refer to the technical data provided for our line of ARCHER devices. With this information you probably will be able to make a suitable substitution.

ARCHER SEMICONDUCTOR REPLACEMENT GUIDE

DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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0000-0300	2023	0002SC644SR,Q	2016	001-02405-2	1104	002-011500	2016	0020-0351	2009	01-030372	2009	01-572791	2020
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00002S535	2016	0002SC1032C	2016	001-021080	2009	002SC735OY	2009	0051-0130	1104	01-030734	2009	02-004558	038
00002S536	2009	0002SC1061	2020	001-021090	2009	002SC1061	2017	0051-0160	1104	01-030735	2009	02-25C458LGC	2009
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ARCHER SEMICONDUCTOR REPLACEMENT GUIDE

DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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019-002935	1104	022-2823-006	1123	051-0107B	2023	0103-0060(B)	2009	0131-001464	1617	030011-2	2030	0517133	1122
019-002964	1122	022-2823-007	1123	051-0155	1617	0103-0060-6438	2016	0131-001597	2041	030387	1067	0517550	1104
019-003349	2030	022-2823-008	1123	055	1617	0103-0060A	2009	0131-001864	1617	030512-1	2009	0517550-3	1104
019-003420	1104	022-2823-009	1104	056	2023	0103-0060B	2016	0131-002049	2027	030512-2	2009	0517750	1104
019-003870-013	1104	022-2823-010	1122	057	1617	0103-0088	2016	0131-002068	2041	030515	2009	0517750H	1104
019-003870-020	1104	022-2823-011	1104	057B474H	2016	0103-0088/4460	2016	0131-005807	2030	030515-4	2009	0517826	1123
019-003929	2016	022-2876-001	2035	058	1104	0103-0088H	1617	0131-026	1104	030527	2009	0517828	1123
019-003932	1617	022-2876-003	2009	062	1617	0103-0088R	1617	0131-053	1104	030536	2009	0517829	1123
019-003934	1617	022-2876-004	2023	065-001	2035	0103-0088S	1617	0131-5352	2020	030536-1	2009	0518926	1122
019-005006	1617	022-2876-005	2035	065-002	2035	0103-00608	2009	0132	2041	030537	2009	0525002	1123
019-005010	202												

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1-801-304-15	2016	1AC15	564	1DZ61-C	1104	1G86	1123	1LE11B	1114	1N48	1123	1N71	1123
1-801-305-13	2016	1AC15A	564	1DZ61-D	1104	1GD2	1123	1LE11C	1114	1N48A	1123	1N72	1123
1-801-306	2016	1AC15B	564	1DZ61-K	1104	1GD4	1123	1LE11D	1114	1N48N	1123	1N72G	1123
1-801-306-13	2016	1AS027	1114	1DZ61-L	1104	1GD5X	1123	1LE11K	1114	1N49	1123	1N73	1123
1-801-306-14	2016	1AS029	1114	1DZ61-OR	1104	1GD6	1123	1LE11L	1114	1N50	1123	1N74	1123
1-801-306-15	2016	1AZ9.1	562	1DZ61-Y	1104	1GD10	1123	1LE11R	1114	1N51	1123	1N75	1123
1-801-314	1617	1AZ12	563	1E02	1104	1GH62	1104	1LE11Y	1114	1N52	1123	1N75A	1123
1-801-314-15	1617	1AZ15	564	1E05	1104	1GZ61	1104	1LF11	1114	1N52A	1123	1N76	1123
1-801-314-16	1617	1B05	1171	1E-1	2030	1GZ61-A	1104	1LH62	1114	1N54	1123	1N76A	1123
1-6732	2020	1B05J05	1171	1E1	1104	1GZ61-B	1104	1LM340T12	1771	1N54A	1123	1N76C	1123
1-8259	1104	1B05J20	1104	1E2	1104	1GZ61-C	1104	1LZ61	1114	1N54G	1123	1N76G	1123
1-12689	1123	1B05J40	1104	1E3	1104	1GZ61-D	1104	1LZ61-A	1114	1N54GA	1123	1N81	1123
1-16549	1122	1B06	2041	1E4	1104	1GZ61-K	1104	1LZ61-B	1114	1N56	1123	1N81A	1123
1-20363	562	1B08T05	1171	1E5	1104	1GZ61-L	1104	1LZ61-C	1114	1N56A	1123	1N84	1123
1-79990A	2030	1B08T10	1171	1E6	1104	1GZ61-OR	1104	1LZ61-D	1114	1N57	1123	1N86	1123
1-52223720	1617	1B1	1171	1E7	1114	1GZ61-Y	1104	1LZ61-K	1114	1N57A	1123	1N86AG	1123
1-6147191229	1617	1B1.1	1173	1E8	1114	1GZZ1	1104	1LZ61-L	1114	1N58	1123	1N87	1123
1-6171191368	2009	1B2Z1	1104	1E9.1D	562	1HC-10F	1104	1LZ61-OR	1114	1N58A	1123	1N87A	1123
1-6501190016	1104	1B2Z1AY	1104	1E9.1D5	562	1HC-10R	1104	1LZ61-Y	1114	1N60	1123	1N87G	1123
1+12/1	1104	1B4	1173	1E9.1D10	562	1HC-15F	1104	1M4.7AZ10	565	1N60(GA)	1123	1N87GA	1123
1A0021	2009	1B4B1	1173	1E9.1Z	562	1HC-15R	1104	1M4.7Z55	565	1N60(GB)	1123	1N87G5	1123
1A0022	2009	1B4B41	1171	1E9.1Z5	562	1HC-20F	1104	1M4.7Z510	565	1N60/7825B	1123	1N87T	1123
1A0024	2016	1B4.1	1173	1E9.1Z10	562	1HC-20R	1104	1M5.1AZ3	565	1N60-1	1123	1N88	1123
1A0025	2009	1B10J20	1104	1E10	1114	1HC-25F	1104	1M5.1AZ10	565	1N60-5	1123	1N89	1123
1A0029	2009	1B759	563	1E11Z	563	1HC-25R	1104	1M5.1Z510	565	1N60-FA1	1123	1N90	1123
1A0032	2009	1BH62	1104	1E11Z10	563	1HC-30F	1104	1M6.2AZ3	561	1N60-FD1	1123	1N90G	1123
1A0033	2009	1BZ61	1104	1E12Z	563	1HC-30R	1104	1M6.2AZ10	561	1N60-FM	1123	1N90GA	1123
1A0034	1617	1BZ61-A	1104	1E12Z5	563	1HC-40F	1104	1M6.2Z510	561	1N60-M3	1123	1N91	1123
1A0035	1617	1BZ61-B	1104	1E12Z10	563	1HC-40R	1104	1M9.1Z	562	1N60-5	1123	1N92	1104
1A0037	2009	1BZ61-C	1104	1E15Z	564	1HC-50F	1104	1M9.1Z5	562	1N60-T	1123	1N93	1104
1A0043	1617	1BZ61-D	1104	1E15Z5	564	1HC-50R	1104	1M9.1Z10	562	1N60-TF1	1123	1N93A	1104
1A0044	2016	1BZ61-K	1104	1E15Z10	564	1HC-60F	1104	1M9.1Z55	562	1N60-Z	1123	1N95	1123
1A0045	2009	1BZ61-L	1104	1E535A	2058	1HC-60R	1104	1M9.1Z510	562	1N60A	1123	1N96	1123
1A0046	2020	1BZ61-OR	1104	1E535B	2016	1HC-80F	1114	1M12Z	563	1N60AM	1123	1N96A	1123
1A0051	2009	1BZ61-Y	1104	1EA100A	1114	1HC-80R	1114	1M12Z3	563	1N60B	1123	1N97	1123
1A0058	2020	1C0009	1104	1ET02	1104	1HC-100F	1114	1M12Z5	563	1N60C	1123	1N97A	1123
1A0059	2020	1C0017	1122	1ET05	1104	1HC-100R	1114	1M12Z10	563	1N60D	1123	1N98	1123
1A0063	1617	1C0025	1104	1ET1	1104	1HY40	1104	1M12Z55	563	1N60F	1123	1N98A	1123
1A0066	2030	1C0026	1104	1ET2	1104	1HY50	1104	1M12Z510	563	1N60FA1	1123	1N99	1123
1A0067	2009	1C0029	1123	1ET3	1104	1HY80	1114	1M15Z	564	1N60FD1	1123	1N99A	1123
1A0070	2009	1C0031	1104	1ET4	1104	1HY100	1114	1M15Z3	564	1N60FM	1123	1N100	1123
1A0076	2009	1C0038	561	1ET5	1104	1J1	1617	1M15Z5	564	1N60FM-1	1123	1N100A	1123
1A0077	2009	1C03	2020	1ET6	1104	1J2C1	1114	1M15Z10	564	1N60FM1	1123	1N103	1123
1A0078	2009	1C05	1104	1ET7	1114	1J2J1	1114	1M15Z55	564	1N60FMX	1123	1N104	1123
1A0079	1617	1C09	2020	1ET8	1114	1JH11F	1104	1M15Z510	564	1N60G	1123	1N105	1123
1A0080	1617	1C2	1104	1ET10	1114	1JH62	1104	1M383T	703	1N60GA	1123	1N107	1123
1A0081	1617	1C4	1104	1EZ4.7D	565	1JL50	1104	1M2086	1104	1N60GB	1123	1N108	1123
1A0083	2009	1C9.1Z	562	1EZ4.7D5	565	1JL51	1104	1M8513A	1104	1N60M	1123	1N109	1123
1A0084	2009	1C9.1ZA	562	1EZ4.7D10	565	1JL52	1104	1MA4	1104	1N60M3	1123	1N111	1123
1A01	2030	1C10	1114	1EZ4.7T10	565	1JL53	1104	1MJJ6.2	561	1N60MP	1123	1N112	1123
1A03	2030	1C12Z	563	1EZ5.1	565	1JL56	1104	1MJJ6.2A	561	1N60N	1123	1N113	1123
1A06	2030	1C12ZA	563	1EZ5.1D	565	1JL57	1104	1MJJ12	563	1N60P	1123	1N114	1123
1A07	2030	1C14	2020	1EZ5.1D5	565	1JL58	1114	1MJJ12A	563	1N60R	1123	1N115	1123
1A9.1MA	562	1C15A	564	1EZ5.1D10	565	1JL59	1114	1MZ9.1T5	562	1N60S	1123	1N116	1123
1A9.1MA	562	1C15Z	564	1EZ5.1T10	565	1JL63	1114	1MZ9.1T10	562	1N60SD60	1123	1N116A	1123
1A9.1MB	562	1C15ZA	564	1EZ6.2D	561	1JL64	1114	1MZ9.1T20	562	1N60T	1123	1N117	1123
1A12M	563	1C73045	2020	1EZ6.2D5	561	1JZ61	1114	1N-22	1123	1N60TPGL	1123	1N117A	1123
1A12MA	563	1C744005	2016	1EZ6.2D10	561	1JZ61-A	1104	1N25	565	1N60TV	1123	1N118	1123
1A12MB	563	1D08	564	1EZ6.2T10	561	1JZ61-B	1104	1N25A	1122	1N60TVGL	1123	1N118A	1123
1A15M	564	1D2	1104	1EZ9.1	562	1JZ61-C	1104	1N31A	1123	1N60TV-TOGL	1123	1N119	1123
1A15MA	564	1D2C1	1114	1EZ9.1D	562	1JZ61-D	1104	1N34	1123	1N60TVTP	1123	1N119A	1123
1A15MB	564	1D2C1LC2	1114	1EZ9.1D5	562	1JZ61-K	1104	1N34A	1123	1N60TV-TPGL	1123	1N120	1123
1A17	2030	1D2Z1	1104	1EZ9.1D10	562	1JZ61-L	1104	1N34A(AU)	1123	1N60TVTPGL	1123	1N120A	1123
1A18	2030	1D4B1	1173	1EZ9.1T10	562	1JZ61-OR	1104	1N34AM	1123	1N60Z	1123	1N125	1123
1A59	565	1D4.7	565	1EZ12	563	1JZ61-Y	1104	1N34A5	1123	1N61A	1123	1N126	1123
1A60	565	1D4.7A	565	1EZ12D	563	1K2	1143	1N34A-T	1123	1N62	1123	1N126A	1123
1A62	561	1D4.7B	565	1EZ12D5	563	1K34A	1123	1N34A-Z	1123	1N63	1123	1N127	1123
1A10425	1104	1D5.1A	565	1EZ12D10	563	1K60	1123	1N34G	1123	1N63A	1123	1N128	1123
1A11184	1104	1D6.2A	561	1EZ12T10	563	1K60A	1123	1N34GA	1123	1N64	1123	1N128A	1123
1A11306	1123	1D6.2B	561	1EZ15	564	1K60R	1123	1N34M	1123	1N64A	1123	1N132	1123
1A11671	1104	1D6.25A	561	1EZ15D	564	1K90	1123	1N34N	1123	1N64B	1123	1N133	1123
1A12214	1104	1D6.25B	561	1EZ15D5	564	1K110	1123	1N34Z	1123	1N64G	1123	1N134	1123
1A12407	1104	1D8	1114	1EZ15D10	564	1K188	1123	1N35	1123	1N64GA	1123	1N135	1122
1A12688	562	1D10	1114	1EZ15T10	564	1K188FM	1123	1N36	1123	1N64P	1123	1N136	1123
1A12689	1123	1D100	1067	1F05	1104	1K188FM-1	1123	1N38	1123	1N65	1123	1N137	1123
1A12690	1104	1D101	1067	1F2	1104	1K261	1123	1N38A	1123	1N65A	1123	1N137A	1122
1A13219	1104	1D102	1067	1F8	1114	1KF20-04	1123	1N38B	1123	1N66	1123	1N137B	1122
1A13719	1104	1D103	1067	1F10	1114	1LE11	1114	1N39A	1102	1N66A	1123	1N138	1122
1A13720	1104	1D104	1067	1F14A	1104	1LE11-A	1114	1N40	1123	1N67	1123	1N138A	1122
1A14384	1123	1D261	1104	1FM2	1104	1LE11-B	1114	1N41	1123	1N67A	1123	1N138B	1122
1A15790	1104	1DC1	1104	1G01	1123	1LE11-C	1114	1N42	1123	1N67D	1123	1N139	1123
1A16549	1122	1DG2	1123	1G2Z	1104	1LE11-D	1114	1N43	1123	1N68	1123	1N140	1123
1A16550	1104	1DH62	1102	1G2Z1	1104	1LE11-K	1114	1N44	1123	1N68A	1123	1N141	1123
1A16551	1122	1DZ12	563	1G4B1	1173	1LE11-L	1114	1N45	1123	1N69	1123	1N142	1123
1AC12A	563	1DZ61	1104	1G4B41	1173	1LE11-OR	1114	1N46	1123	1N69A	1123	1N143	1123
1AC12A	563	1DZ61-A	1104	1G8	1114	1LE11-Y	1114	1N46A	1123	1N70	1123	1N144	1123
1AC12B	563	1DZ61-B	1104	1G25	1123	1LE11A	1114	1N47	1123	1N70A			

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1N148	1123	1N303	1122	1N4008	1104	1N4838M	1122	1N602	1104	1N695A	1123	1N811M	1122
1N151	1104	1N303A	1122	1N417	1123	1N483C	1122	1N602A	1104	1N696	1122	1N812	1122
1N152	1104	1N303B	1122	1N418	1123	1N483M	1104	1N603	1104	1N697	1122	1N812M	1122
1N153	1104	1N304	1123	1N419	1123	1N483TH	1104	1N603A	1104	1N698	1123	1N813	1122
1N158	1104	1N305	1123	1N429	561	1N484	1122	1N604	1104	1N699	1123	1N813M	1122
1N169	1104	1N306	1123	1N431	1122	1N484A	1122	1N604A	1104	1N705	565	1N814	1122
1N191	1123	1N307	1123	1N432	1122	1N484B	1122	1N605	1104	1N705A	565	1N814M	1122
1N192	1123	1N308	1123	1N432A	1122	1N484C	1122	1N605A	1104	1N709	561	1N815	1122
1N194	1122	1N309	1123	1N432B	1122	1N484TH	1104	1N606	1104	1N709A	561	1N815M	1122
1N194A	1122	1N310	1123	1N433	1122	1N485	1122	1N606A	1104	1N709B	561	1N816	1122
1N194B	1122	1N312	1123	1N433A	1122	1N485A	1122	1N616	1123	1N713	562	1N817	1122
1N195	1122	1N313	1123	1N433B	1122	1N485B	1122	1N617	1123	1N713A	562	1N818	1122
1N196	1122	1N314	1123	1N434	1122	1N485C	1122	1N618	1123	1N713B	562	1N818M	1122
1N198	1123	1N315	1104	1N434A	1122	1N485TH	1104	1N619	1122	1N716	563	1N819	1104
1N198A	1123	1N315A	1104	1N434B	1122	1N486	1122	1N622	1122	1N716A	563	1N821	561
1N198B	1123	1N316	1104	1N435	1123	1N486A	1122	1N625	1122	1N716B	563	1N821A	561
1N198N	1123	1N316A	1104	1N440	1104	1N486B	1122	1N625A	1122	1N718	564	1N822	561
1N200	1122	1N317	1104	1N440B	1104	1N486TH	1104	1N625M	1122	1N718A	564	1N822A	561
1N200AR	1122	1N317A	1104	1N441	1104	1N487TH	1104	1N626	1122	1N718B	564	1N822AG	561
1N201	1122	1N318	1104	1N441B	1104	1N488TH	1104	1N626A	1122	1N750	565	1N823	561
1N202	1122	1N318A	1104	1N442	1104	1N490	1123	1N626M	1122	1N750A	565	1N823A	561
1N203	1122	1N319	1104	1N442B	1104	1N492	563	1N627	1122	1N751	565	1N824	561
1N204	1122	1N319A	1104	1N443	1104	1N493	563	1N627A	1122	1N751A	565	1N824A	561
1N205	1122	1N320	1104	1N443B	1104	1N497	1123	1N628	1122	1N753	561	1N825	561
1N206	1122	1N320A	1104	1N444	1104	1N498	1123	1N628A	1122	1N753A	561	1N825A	561
1N207	1122	1N321	1114	1N444B	1104	1N499	1123	1N629	1122	1N757	562	1N827	561
1N208	1122	1N321A	1114	1N445	1104	1N500	1123	1N629A	1122	1N757A	562	1N827A	561
1N209	1122	1N322	1114	1N445B	1104	1N501	1123	1N631	1123	1N759	563	1N829	561
1N210	1122	1N322A	1114	1N446	1123	1N503	1104	1N632	1123	1N759A	563	1N829A	561
1N211	1122	1N323	1104	1N447	1123	1N504	1104	1N633	1122	1N760	1122	1N835	1123
1N212	1122	1N323A	1104	1N448	1123	1N505	1104	1N636	1123	1N761	565	1N837	1122
1N213	1122	1N324	1104	1N449	1123	1N506	1104	1N636A	1123	1N761-1	565	1N837A	1122
1N214	1122	1N324A	1104	1N450	1123	1N507	1104	1N643	1122	1N761-2	565	1N838	1122
1N215	1122	1N325	1104	1N451	1123	1N508	1104	1N643A	1122	1N761A	565	1N839	1122
1N216	1122	1N325A	1104	1N452	1123	1N509	1114	1N645	1104	1N764	562	1N840	1122
1N217	1122	1N326	1104	1N453	1123	1N510	1114	1N645-1	1104	1N764-2	562	1N840M	1122
1N218	1122	1N326A	1104	1N454	1123	1N511	1104	1N645A	1103	1N764-3	562	1N841	1122
1N219	1103	1N327	1104	1N455	1123	1N512	1104	1N645B	1103	1N764-4	562	1N842	1122
1N220	1103	1N327A	1104	1N456	1122	1N513	1104	1N645J	1103	1N764A	562	1N843	1122
1N221	1103	1N328	1114	1N456A	1122	1N514	1104	1N645TH	1104	1N766-1	563	1N844	1122
1N222	1103	1N328A	1114	1N457	1122	1N515	1104	1N646	1104	1N767-1	564	1N845	1122
1N225	562	1N329	1114	1N457A	1122	1N516	1104	1N646TH	1104	1N770	1123	1N846	1104
1N225A	562	1N329A	1114	1N457AM	1104	1N517	1114	1N647	1104	1N771	1123	1N847	1104
1N251	1122	1N330	1122	1N457M	1122	1N518	1114	1N647-1	1104	1N771A	1123	1N848	1104
1N251A	1122	1N331	1122	1N458	1122	1N519	1104	1N647TH	1104	1N771B	1123	1N849	1104
1N252	1122	1N350	1122	1N458A	1122	1N520	1104	1N648	1104	1N772	1122	1N850	1104
1N252A	1122	1N351	1122	1N458AM	1122	1N521	1104	1N648TH	1104	1N772A	1123	1N851	1104
1N265	1123	1N352	1122	1N458M	1122	1N522	1104	1N649	1104	1N773	1123	1N852	1104
1N266	1123	1N353	1122	1N459	1122	1N523	1104	1N649-1	1104	1N773A	1123	1N853	1114
1N267	1123	1N354	1103	1N459A	1122	1N524	1104	1N649TH	1104	1N774	1123	1N854	1114
1N268	1123	1N355	1123	1N459M	1122	1N525	1114	1N658	1122	1N774A	1123	1N855	1114
1N270	1123	1N359	1104	1N460	1122	1N526	1114	1N658A	1122	1N775	1123	1N856	1114
1N273	1123	1N359A	1104	1N460A	1122	1N527	1123	1N658M	1122	1N776	1123	1N857	1104
1N276	1123	1N360	1104	1N460B	1122	1N530	1104	1N659	1122	1N777	1123	1N858	1104
1N277	1123	1N360A	1104	1N461	1122	1N531	1104	1N659A	1122	1N778	1122	1N859	1104
1N278	1123	1N361	1104	1N461A	1122	1N532	1104	1N659A	1122	1N779	1122	1N860	1104
1N279	1123	1N361A	1104	1N462	1122	1N533	1104	1N660	1122	1N781	1123	1N861	1104
1N281	1123	1N362	1104	1N462A	1104	1N534	1104	1N660A	1122	1N781A	1123	1N862	1104
1N282	1123	1N362A	1104	1N462AM	1104	1N535	1104	1N661	1122	1N788	1122	1N863	1104
1N283	1123	1N363	1104	1N462M	1122	1N536	1104	1N661A	1122	1N789	1122	1N864	1114
1N285	1123	1N363A	1104	1N463	1122	1N537	1104	1N662	1122	1N789M	1122	1N865	1114
1N287	1123	1N364	1114	1N463A	1122	1N538	1104	1N662A	1122	1N790	1122	1N866	1114
1N288	1123	1N364A	1114	1N464	1122	1N539	1104	1N663	1104	1N790M	1122	1N867	1114
1N289	1123	1N365	1114	1N464A	1122	1N540	1104	1N663A	1122	1N791	1122	1N868	1104
1N290	1123	1N365A	1114	1N468	565	1N541	1123	1N663M	1122	1N791M	1122	1N869	1104
1N291	1123	1N367	1123	1N468A	565	1N542	1123	1N665	563	1N792	1122	1N870	1104
1N292	1123	1N367B	1123	1N473	565	1N542A	1123	1N666	564	1N792M	1122	1N871	1104
1N294	1123	1N368	1104	1N473A	565	1N542MP	1123	1N673	1104	1N793	1122	1N872	1104
1N294A	1123	1N376	565	1N473B	565	1N547	1104	1N674	565	1N793M	1122	1N873	1104
1N295	1123	1N377	561	1N476	1123	1N548	1114	1N675	561	1N794	1122	1N874	1104
1N295A	1123	1N379	1122	1N477	1123	1N560	1114	1N676	1104	1N795	1122	1N875	1114
1N2955	1123	1N380	1122	1N478	1123	1N561	1114	1N677	1104	1N796	1122	1N876	1114
1N295X	1123	1N381	1122	1N479	1123	1N564	1123	1N678	1104	1N797	1122	1N877	1114
1N296	1123	1N302	1122	1N480	1123	1N568	1123	1N679	1104	1N798	1122	1N878	1114
1N297	1123	1N383	1122	1N480B	1104	1N569	1123	1N681	1104	1N799	1122	1N879	1104
1N297A	1123	1N384	1122	1N482	1122	1N571	1123	1N682	1104	1N800	1122	1N880	1104
1N298	1123	1N385	1122	1N482A	1122	1N596	1104	1N683	1104	1N801	1122	1N881	1104
1N298A	1123	1N386	1122	1N482AM	1122	1N597	1114	1N684	1104	1N802	1122	1N881B	1104
1N300	1122	1N387	1122	1N482B	1122	1N598	1114	1N685	1104	1N803	1122	1N882	1104
1N300A	1122	1N388	1122	1N482BM	1122	1N599	1104	1N686	1104	1N804	1122	1N883	1104
1N300B	1122	1N389	1122	1N482C	1122	1N599A	1104	1N687	1104	1N805	1123	1N884	1104
1N301	1122	1N390	1122	1N482M	1122	1N600	1104	1N689	1104	1N806	1122	1N885	1104
1N301A	1122	1N391	1122	1N482TH	1104	1N600A	1104	1N690	1122	1N807	1122	1N886	1114
1N301B	1122	1N392	1122	1N483	1122	1N600KB	1122	1N691	1122	1N808	1122	1N887	1114
1N302	1122	1N393	1122	1N483A	1122	1N601	1104	1N692	1122	1N809	1122	1N888	1114
1N302A	1122	1N394	1122	1N483AM	1122	1N601A	1104	1N693	1122	1N810	1122	1N889	1114
1N302B	1122	1N400	1104	1N483B	1122	1N601S34	1123	1N695	1123	1N811	1122	1N890	1122

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1N890M	1122	1N941	563	1N1221B	1144	1N1646	1143	1N1988B	564	1N2399	1141	1N3066	1122
1N891	1122	1N941A	563	1N1222	1144	1N1647	1143	1N2013	1141	1N2400	1143	1N3067	1122
1N892	1122	1N941B	563	1N1222A	1144	1N1648	1144	1N2014	1143	1N2401	1143	1N3068	1122
1N897	1122	1N942	563	1N1222B	1144	1N1649	1144	1N2015	1143	1N2402	1144	1N3069	1122
1N898	1122	1N942A	563	1N1225	1114	1N1650	1144	1N2016	1143	1N2403	1144	1N3069M	1122
1N899	1122	1N942B	563	1N1225A	1114	1N1651	1144	1N2017	1144	1N2408	1141	1N3070	1122
1N900	1122	1N943	563	1N1225B	1114	1N1692	1104	1N2018	1144	1N2409	1143	1N3071	1122
1N901	1122	1N943A	563	1N1226	1114	1N1693	1104	1N2019	1144	1N2410	1143	1N3072	1141
1N902	1122	1N943B	563	1N1226A	1114	1N1694	1104	1N2020	1144	1N2411	1144	1N3073	1143
1N903	1122	1N944	563	1N1226B	1114	1N1695	1104	1N2026	1141	1N2412	1144	1N3074	1143
1N903A	1122	1N944A	563	1N1251	1104	1N1696	1104	1N2032	565	1N2417	1114	1N3075	1143
1N903A	1122	1N944B	563	1N1252	1104	1N1697	1104	1N2032-1	565	1N2418	1114	1N3076	1144
1N903AM	1122	1N945	563	1N1253	1104	1N1701	1104	1N2032-2	565	1N2419	1114	1N3077	1144
1N903M	1122	1N945A	563	1N1254	1104	1N1702	1104	1N2032A	565	1N2420	1114	1N3078	1144
1N904	1122	1N945B	563	1N1255	1104	1N1703	1104	1N2033	561	1N2421	1114	1N3079	1144
1N904/A	1122	1N946	563	1N1255A	1104	1N1704	1104	1N2033-2	561	1N2422	1114	1N3082	1143
1N904A	1122	1N946A	563	1N1256	1104	1N1705	1104	1N2035	562	1N2423	1114	1N3083	1144
1N904AM	1122	1N946B	563	1N1257	1104	1N1706	1104	1N2035-2	562	1N2424	1114	1N3094	1104
1N904M	1122	1N947	1104	1N1258	1114	1N1707	1104	1N2035-3	562	1N2425	1114	1N3108	562
1N905	1122	1N948	1122	1N1259	1114	1N1708	1104	1N2035-4	562	1N2482	1104	1N3110	1123
1N905/A	1122	1N949	1123	1N1260	1114	1N1709	1104	1N2037-1	563	1N2483	1104	1N3112	2030
1N905A	1122	1N960	562	1N1261	1114	1N1710	1104	1N2037A	563	1N2484	1104	1N3121	1123
1N905AM	1122	1N960A	562	1N1313	562	1N1711	1104	1N2038-1	564	1N2485	1104	1N3122	1123
1N905M	1122	1N960B	562	1N1313A	562	1N1712	1104	1N2069	1104	1N2486	1104	1N3123	1122
1N906	1122	1N963	563	1N1337-5	1104	1N1713	563	1N2069A	1104	1N2487	1104	1N3124	1122
1N906/A	1122	1N963A	563	1N1391	1123	1N1730	1114	1N2070	1104	1N2488	1104	1N3125	1123
1N906A	1122	1N963B	563	1N1406	1104	1N1730A	1114	1N2070A	1104	1N2489	1104	1N3146	1123
1N906AM	1122	1N965	564	1N1407	1114	1N1735	561	1N2071	1104	1N2609	1104	1N3147	1122
1N906M	1122	1N965A	564	1N1408	1114	1N1736	563	1N2071A	1104	1N2610	1104	1N3148	562
1N907	1122	1N965B	564	1N1415	1104	1N1736A	563	1N2072	1104	1N2611	1104	1N3160	1104
1N907A	1122	1N993	1122	1N1426	563	1N1763	1104	1N2073	1104	1N2612	1104	1N3179	1102
1N907A	1122	1N994	1123	1N1427	564	1N1763A	1144	1N2074	1104	1N2613	1144	1N3180	1102
1N907AM	1122	1N995	1123	1N1439	1104	1N1764	1104	1N2075	1104	1N2614	1104	1N3183	1104
1N907M	1122	1N995M	1123	1N1440	1104	1N1766	561	1N2076	1104	1N2615	1104	1N3184	1104
1N908	1122	1N996	1123	1N1441	1104	1N1766A	561	1N2077	1104	1N2616	1114	1N3185	1114
1N908/A	1122	1N997	1122	1N1442	1104	1N1770	562	1N2078	1104	1N2617	1114	1N3186	1114
1N908A	1122	1N998	1104	1N1443	1114	1N1770A	562	1N2079	1104	1N2620	562	1N3189	1104
1N908AM	1122	1N999	1122	1N1443A	1114	1N1773	563	1N2080	1104	1N2620A	562	1N3190	1104
1N908M	1122	1N1008	1104	1N1443B	1114	1N1773A	563	1N2081	1104	1N2620B	562	1N3191	1104
1N909	1123	1N1028	1104	1N1484	565	1N1775	564	1N2082	1104	1N2621	562	1N3193	1104
1N910	1123	1N1029	1104	1N1485	561	1N1775A	564	1N2083	1104	1N2621A	562	1N3194	1104
1N911	1125	1N1030	1104	1N1486	1104	1N1779	561	1N2084	1104	1N2621B	562	1N3195	1104
1N914	1122	1N1031	1104	1N1487	1104	1N1839	1122	1N2085	1104	1N2622	562	1N3196	1114
1N914/A/B	1122	1N1032	1104	1N1488	1104	1N1840	1122	1N2086	1104	1N2622A	562	1N3197	1122
1N914A	1122	1N1033	1104	1N1489	1104	1N1841	1122	1N2088	1104	1N2622B	562	1N3203	1104
1N914B	1122	1N1052	1104	1N1490	1104	1N1842	1122	1N2089	1104	1N2623	562	1N3204	1123
1N914F	1122	1N1053	1104	1N1491	1104	1N1843	1122	1N2090	1104	1N2623A	562	1N3206	1122
1N914M	1122	1N1054	1114	1N1492	1104	1N1844	1122	1N2091	1104	1N2623B	562	1N3207	1122
1N915	1122	1N1055	1143	1N1508	565	1N1845	1122	1N2092	1104	1N2624	562	1N3221	1114
1N916	1122	1N1056	1114	1N1508A	565	1N1846	1122	1N2093	1104	1N2624A	562	1N3223	1122
1N916A	1122	1N1057	1114	1N1513	563	1N1847	1122	1N2094	1104	1N2624B	562	1N3227	1143
1N916B	1122	1N1081	1104	1N1513A	563	1N1848	1122	1N2095	1104	1N2638	1104	1N3228	1143
1N917	1122	1N1081A	1104	1N1514	564	1N1849	1103	1N2096	1104	1N2650	1104	1N3237	1141
1N919	1122	1N1082	1104	1N1514A	564	1N1850	1103	1N2103	1104	1N2653	1114	1N3238	1143
1N920	1122	1N1082A	1104	1N1519	565	1N1877	563	1N2104	1104	1N2790	562	1N3239	1143
1N921	1122	1N1083	1104	1N1519A	565	1N1877A	563	1N2105	1104	1N2801	1123	1N3240	1144
1N922	1122	1N1083A	1104	1N1524	563	1N1878	564	1N2106	1104	1N2858	1104	1N3246	1141
1N923	1122	1N1084	1104	1N1524A	563	1N1878A	564	1N2107	1104	1N2858A	1141	1N3247	1143
1N924	1122	1N1084A	1104	1N1525	564	1N1907	1104	1N2108	1104	1N2859	1143	1N3248	1143
1N925	1122	1N1093	1123	1N1525A	564	1N1908	1104	1N2115	1104	1N2859A	1143	1N3249	1144
1N926	1122	1N1095	1104	1N1530	562	1N1909	1104	1N2116	1104	1N2860	1104	1N3253	1104
1N927	1122	1N1096	1104	1N1530A	562	1N1910	1144	1N2117	1104	1N2860A	1143	1N3254	1104
1N928	1122	1N1100	1104	1N1556	1143	1N1911	1104	1N2163	562	1N2861	1104	1N3255	1104
1N929	1122	1N1101	1104	1N1557	1143	1N1912	1104	1N2163A	562	1N2861A	1144	1N3256	1114
1N930	1122	1N1102	1104	1N1558	1144	1N1913	1104	1N2164	562	1N2862	1104	1N3257	1122
1N931	1122	1N1103	1104	1N1559	1144	1N1914	1114	1N2164A	562	1N2862A	1144	1N3258	1122
1N932	1122	1N1104	1104	1N1561	1123	1N1915	1114	1N2165	562	1N2863	1104	1N3277	1104
1N933	1122	1N1104R	1104	1N1562	1123	1N1916	1114	1N2165A	562	1N2864	1104	1N3278	1104
1N934	1122	1N1105	1104	1N1563	1143	1N1928	565	1N2166	562	1N2878	1114	1N3279	1104
1N935	562	1N1108	1114	1N1563A	1104	1N1928A	565	1N2166A	562	1N2879	1114	1N3280	1114
1N935A	562	1N1122A	1104	1N1564	1143	1N1933	563	1N2167	562	1N2880	1114	1N3281	1114
1N935B	562	1N1169	1104	1N1564A	1104	1N1933A	563	1N2167A	562	1N2881	1114	1N3282	1114
1N936	562	1N1169A	1104	1N1565	1144	1N1934	564	1N2168	562	1N2882	1114	1N3287	1123
1N936A	562	1N1217	1114	1N1565A	1104	1N1934A	564	1N2168A	562	1N2883	1114	1N3287N	1123
1N936B	562	1N1217A	1114	1N1566	1144	1N1934B	564	1N2169	562	1N3019	562	1N3287W	1123
1N937	562	1N1217B	1114	1N1566A	1104	1N1955	565	1N2169A	562	1N3019A	562	1N3298	1104
1N937A	562	1N1218	1114	1N1567A	1104	1N1955A	565	1N2170	562	1N3019B	562	1N3381	1101
1N937B	562	1N1218A	1114	1N1568A	1104	1N1960	563	1N2170A	562	1N3022	563	1N3382	1122
1N938	562	1N1218B	1114	1N1617	1143	1N1960A	563	1N2171	562	1N3022A	563	1N3383	1101
1N938A	562	1N1219	1114	1N1617AR	1143	1N1960B	563	1N2171A	562	1N3022B	563	1N3384	1104
1N938B	562	1N1219A	1114	1N1618	1104	1N1982	565	1N2181	1104	1N3024	564	1N3385	1104
1N939	562	1N1219B	1114	1N1619	1104	1N1982A	565	1N2323	1104	1N3024A	564	1N3386	1102
1N939A	562	1N1220	1143	1N1620	1104	1N1987	563	1N2390	1141	1N3024B	564	1N3387	1102
1N939B	562	1N1220A	1143	1N1630	1122	1N1987A	563	1N2391	1143	1N3062	1122	1N3388	1103
1N940	562	1N1220B	1143	1N1638	1122	1N1987B	563	1N2					

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1N3404	564	1N3626	1122	1N4001GP	1101	1N4297A	562	1N4567	561	1N4744A	564	1N4951	1122
1N3411	561	1N3629	1104	1N4002	1104	1N4298	562	1N4567A	561	1N4765	562	1N4952	1122
1N3416	563	1N3630	1104	1N4002A	1104	1N4298A	562	1N4568	561	1N4765A	562	1N4997	1141
1N3417	564	1N3631	1104	1N4002G	1104	1N4299B	563	1N4568A	561	1N4765B	562	1N4997R	1114
1N3465	1123	1N3632	1104	1N4002GP	1104	1N4300B	563	1N4569	561	1N4766	562	1N4998	1143
1N3466	1123	1N3633	1104	1N4002L	1104	1N4302	562	1N4569A	561	1N4766A	562	1N4998R	1114
1N3467	1123	1N3634	1104	1N4002TA	1104	1N4302A	562	1N4570	561	1N4766B	562	1N4999	1143
1N3468	1123	1N3635	1114	1N4003	1102	1N4303B	563	1N4570A	561	1N4767	562	1N4999R	1114
1N3469	1123	1N3636	1114	1N4003A	1102	1N4304B	563	1N4571	561	1N4767A	562	1N5000	1144
1N3470	1123	1N3637	1114	1N4003G	1102	1N4305	1122	1N4571A	561	1N4767B	562	1N5000R	1114
1N3471	1122	1N3638	1114	1N4003GP	1102	1N4305F	1122	1N4572	561	1N4768	562	1N5001R	1114
1N3473	1104	1N3639	1104	1N4003PX	1102	1N4306	1122	1N4572A	561	1N4768A	562	1N5002R	1114
1N3474	1104	1N3640	1104	1N4003RL	1102	1N4307	1122	1N4573	561	1N4768B	562	1N5003R	1114
1N3475	1104	1N3641	1104	1N4003TA	1102	1N4308	1122	1N4573A	561	1N4769	562	1N5004	1143
1N3476	1114	1N3642	1114	1N4004	1103	1N4309	1122	1N4574	561	1N4769A	562	1N5005	1143
1N3482	1123	1N3643	1114	1N4004A	1103	1N4311	1122	1N4574A	561	1N4769B	562	1N5006	1144
1N3483	1123	1N3653	1122	1N4004G	1103	1N4315	1122	1N4575	561	1N4770	562	1N5054	1114
1N3484	1123	1N3654	1122	1N4004GP	1103	1N4318	1122	1N4575A	561	1N4770A	562	1N5055	1143
1N3486	1143	1N3656	1143	1N4004TA	1103	1N4322	1122	1N4576	561	1N4770B	562	1N5056	1143
1N3496	561	1N3657	1144	1N4005	1104	1N4326	562	1N4576A	561	1N4771	562	1N5057	1144
1N3497	561	1N3666	1122	1N4005GP	1104	1N4326A	562	1N4577	561	1N4771A	562	1N5058	1144
1N3498	561	1N3668	1122	1N4006	1114	1N4326B	562	1N4577A	561	1N4771B	562	1N5059GP	1102
1N3499	561	1N3669	1104	1N4006GP	1114	1N4329	563	1N4578	561	1N4772	562	1N5060GP	1103
1N3500	561	1N3678	562	1N4007	1114	1N4329A	563	1N4578A	561	1N4772A	562	1N5061GP	1104
1N3510	565	1N3678A	562	1N4007GP	1114	1N4329B	563	1N4579	561	1N4772B	562	1N5062GP	1114
1N3511	565	1N3678B	562	1N4009	1122	1N4331	564	1N4579A	561	1N4773	562	1N5170	1114
1N3513	561	1N3681	563	1N4010	561	1N4331A	564	1N4580	561	1N4773A	562	1N5171	1141
1N3517	562	1N3681A	563	1N4011	1114	1N4331B	564	1N4580A	561	1N4773B	562	1N5172	1114
1N3520	563	1N3681B	563	1N4043	1122	1N4361	1114	1N4581	561	1N4774	562	1N5173	1144
1N3522	564	1N3683	564	1N4087	1122	1N4363	1122	1N4581A	561	1N4774A	562	1N5174	1144
1N3537	563	1N3683A	564	1N4088	1123	1N4364	1104	1N4582	561	1N4774B	562	1N5177	1114
1N3544	1104	1N3683B	564	1N4089	1144	1N4365	1171	1N4582A	561	1N4775	562	1N5178	1114
1N3545	1104	1N3722	1122	1N4092	1122	1N4366	1171	1N4583	563	1N4775A	562	1N5179	1122
1N3546	1104	1N3728	1103	1N4093	1122	1N4367	1104	1N4583A	563	1N4776	562	1N5190GP	1114
1N3547	1104	1N3731	1104	1N4095	565	1N4368	1104	1N4583B	561	1N4776A	562	1N5194	1122
1N3548	1104	1N3732	565	1N4102	562	1N4369	1104	1N4584	561	1N4777	562	1N5195	1122
1N3549	1104	1N3736A	561	1N4103	562	1N4375	1122	1N4584A	561	1N4777A	562	1N5196	1122
1N3550	1122	1N3748	1143	1N4103A	562	1N4376	1122	1N4585GP	1114	1N4778	562	1N5197	1141
1N3553	561	1N3749	1144	1N4106	563	1N4382	1122	1N4586GP	1114	1N4778A	562	1N5199	1143
1N3559	1123	1N3753	1123	1N4106A	563	1N4383	1104	1N4606	1122	1N4779	562	1N5200	1144
1N3564	1123	1N3754	1104	1N4109	564	1N4383GP	1102	1N4606R	1122	1N4779A	562	1N5208	1122
1N3575	1122	1N3755	1143	1N4139	1141	1N4384	1104	1N4607	1122	1N4780	562	1N5209	1122
1N3576	1122	1N3756	1144	1N4140	1143	1N4384GP	1103	1N4608	1122	1N4780A	562	1N5210	1122
1N3577	1122	1N3757	1143	1N4141	1143	1N4385	1104	1N4610	1122	1N4781	562	1N5211	1104
1N3578	1103	1N3758	1144	1N4142	1144	1N4385GP	1104	1N4624	565	1N4781A	562	1N5212	1104
1N3579	1103	1N3769	1123	1N4147	1122	1N4389	1122	1N4625	565	1N4782	562	1N5213	1104
1N3580	563	1N3773	1123	1N4148	1122	1N4392	1122	1N4627	561	1N4782A	562	1N5214	1114
1N3580A	563	1N3782	563	1N4148(AU)	1122	1N4395	1122	1N4631	562	1N4783	562	1N5215	1104
1N3580B	563	1N3782A	563	1N4148F	1122	1N4395A	1122	1N4634	563	1N4783A	562	1N5216	1104
1N3581	563	1N3782B	563	1N4148T	1122	1N4403	562	1N4636	564	1N4784	562	1N5217	1104
1N3581A	563	1N3784	563	1N4148TD	1122	1N4403A	562	1N4653	565	1N4784A	562	1N5218	1114
1N3581B	563	1N3784A	563	1N4148TE	1122	1N4403B	562	1N4654	565	1N4816	1141	1N5219	1122
1N3582	563	1N3784B	563	1N4148V	1122	1N4406	563	1N4656	561	1N4817	1114	1N5220	1122
1N3582A	563	1N3825	565	1N4149	1122	1N4406A	563	1N4660	562	1N4818	1114	1N5230	565
1N3582B	563	1N3825A	565	1N4150	1122	1N4406B	563	1N4663	563	1N4819	1144	1N5230A	565
1N3583	563	1N3826	565	1N4150V	1122	1N4408	564	1N4665	564	1N4820	1144	1N5230B	565
1N3583A	563	1N3826A	565	1N4151	1122	1N4408A	564	1N4668	565	1N4823	1104	1N5231	565
1N3583B	563	1N3828	561	1N4152	1122	1N4408B	564	1N4689	565	1N4824	1104	1N5231A	565
1N3584	563	1N3828A	561	1N4153	1122	1N4444	1122	1N4691	561	1N4825	1104	1N5231B	565
1N3584A	563	1N3855A	562	1N4154	1122	1N4446	1122	1N4695	562	1N4827	1122	1N5234	561
1N3584B	563	1N3864	1122	1N4156	1122	1N4447	1122	1N4696	562	1N4828	1122	1N5234A	561
1N3592	1123	1N3865	1101	1N4157	1122	1N4448	1122	1N4699	563	1N4829	1122	1N5234B	561
1N3593	1122	1N3866	1143	1N4161	562	1N4449	1122	1N4702	564	1N4830	1122	1N5238	562
1N3594	1122	1N3867	1144	1N4161A	562	1N4450	1122	1N4718	1101	1N4861	1122	1N5238-BRL	562
1N3595	1122	1N3872	1122	1N4161B	562	1N4451	1122	1N4719	1141	1N4862	1122	1N5238A	562
1N3596	1122	1N3873	1122	1N4164	563	1N4453	1122	1N4719R	1114	1N4863	1122	1N5238B	562
1N3598	1122	1N3874	1101	1N4164A	563	1N4454	1122	1N4720	1143	1N4864	1122	1N5239	562
1N3599	1122	1N3875	1104	1N4164B	563	1N4455	1122	1N4720R	1114	1N4933	1104	1N5239A	562
1N3600	1122	1N3894	1103	1N4166	564	1N4499	561	1N4721	1143	1N4933GP	1104	1N5239B	562
1N3601	1122	1N3895	1103	1N4166A	564	1N4502	1123	1N4721R	1143	1N4934	1104	1N5242	563
1N3602	1122	1N3914	1101	1N4166B	564	1N4512	1101	1N4722	1144	1N4934GP	1104	1N5242A	563
1N3603	1122	1N3929	1114	1N4242	1122	1N4517	1143	1N4722R	1114	1N4935	1104	1N5242B	563
1N3604	1122	1N3938	1143	1N4243	1122	1N4523	1123	1N4723R	1114	1N4935GP	1104	1N5245	564
1N3605	1122	1N3939	1144	1N4244	1122	1N4531	1122	1N4724R	1114	1N4936	1104	1N5245A	564
1N3606	1122	1N3947	561	1N4245	1102	1N4532	1122	1N4725R	1114	1N4936GP	1104	1N5245B	564
1N3607	1122	1N3952	1143	1N4245GP	1102	1N4533	1122	1N4726	1122	1N4937	1104	1N5282	1122
1N3608	1122	1N3953	1122	1N4246	1104	1N4534	1122	1N4727	1122	1N4937GP	1104	1N5315	1122
1N3609	1122	1N3954	1122	1N4246GP	1103	1N4536	1122	1N4732	565	1N4938	1122	1N5316	1122
1N3611	1102	1N3956	1122	1N4247	1104	1N4541	1103	1N4732A	565	1N4942	1104	1N5317	1122
1N3611GP	1102	1N3957	1114	1N4247GP	1104	1N4542	1103	1N4733	565	1N4942GP	1104	1N5318	1122
1N3612	1103	1N3957GP	1114	1N4248	1114	1N4545	1114	1N4735	561	1N4943	1114	1N5319	1122
1N3612GP	1103	1N3981	1143	1N4248GP	1114	1N4547	1122	1N4735A	561	1N4944	1104	1N5320	1122
1N3613	1104	1N3982	1144	1N4249	1114	1N4548	1122	1N4739	562	1N4944GP	1104	1N5324	561
1N3613GP	1104	1N3991	1123	1N4249GP	1114	1N4565	561	1N4739A	562	1N4946	1104	1N5324A	561
1N3614	1114	1N4001											

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1N5392G2	1143	1N5736B	563	1NE11-B	1114	1R5BZ61	1114	1S023	1144	1S98	1114	1S187	1123
1N5392GP	1114	1N5738	563	1NE11-C	1114	1R5BZ61-A	1114	1S030	1141	1S98R	1114	1S187S	1123
1N5393	1143	1N5738B	563	1NE11-D	1114	1R5BZ61-B	1114	1S031	1143	1S99	1114	1S-188	1123
1N5393GP	1114	1N5740	564	1NE11-K	1114	1R5BZ61-C	1114	1S032	1143	1S99A	1104	1S188	1123
1N5394	1144	1N5740B	564	1NE11-L	1114	1R5BZ61-D	1114	1S034	1144	1S99R	1104	1S188(AM)	1123
1N5394GP	1114	1N5767	1122	1NE11-Y	1114	1R5BZ61-K	1114	1S054	1104	1S100	1104	1S188-FM	1123
1N5395	1144	1N5802	1122	1NE11A	1114	1R5BZ61-L	1114	1S058	1114	1S100R	1104	1S188A	1123
1N5395GP	1114	1N5803	1122	1NE11B	1114	1R5BZ61-OR	1114	1S1Z09	1104	1S101	1104	1S188AM	1123
1N5396GP	1114	1N5804	1122	1NE11C	1114	1R5BZ61-Y	1114	1S11	1123	1S101R	1104	1S188AR	1123
1N5397GP	1114	1N5805	1122	1NE11D	1114	1R5DZ61	1143	1S12	1123	1S102	1104	1S188F	1123
1N5398GP	1114	1N5806	1122	1NE11K	1114	1R5DZ61-A	1114	1S13	1123	1S102R	1104	1S188FM	1123
1N5399GP	1114	1N5807	1122	1NE11L	1114	1R5DZ61-B	1114	1S14	1123	1S103	1104	1S188FM-1	1123
1N5400	1141	1N5808	1122	1NE11R	1114	1R5DZ61-C	1114	1S15	1123	1S103R	1104	1S188FM1	1123
1N5401	1143	1N5809	1122	1NE11Y	1114	1R5DZ61-D	1114	1S16	1123	1S104	1104	1S188FM1A	1123
1N5402	1143	1N5810	1122	1NF11	1114	1R5DZ61-L	1114	1S17	1123	1S104R	1104	1S188FM-2	1123
1N5403	1144	1N5811	1122	1NH61	1114	1R5DZ61-OR	1114	1S17D1	1123	1S105	1104	1S188FM2	1123
1N5404	1144	1N5817	1101	1NJ27	1114	1R5DZ61-Y	1114	1S18	1123	1S105R	1104	1S188FMA	1123
1N5413	1122	1N5818	1101	1NJ33233	1123	1R5G	1114	1S19	1123	1S106	1104	1S188FMI	1123
1N5414	1122	1N5819	1101	1NJ60284	1123	1R5GZ61	1114	1S20	1123	1S106A	1104	1S188MPX	1123
1N5415	1101	1N5820	1114	1NJ61224	1123	1R5GZ61-A	1114	1S32	1123	1S106R	1104	1S188P	1123
1N5420	1114	1N5822	1114	1NJ61433	1122	1R5GZ61-B	1114	1S33	1123	1S107	1114	1S188S	1123
1N5426	1122	1N5846	565	1NJ61675	1123	1R5GZ61-C	1114	1S34	1123	1S107R	1114	1S188TV	1123
1N5522	565	1N5846A	565	1NJ61676	1104	1R5GZ61-D	1114	1S34(TV)	1123	1S108	1114	1S188TV(MP)	1123
1N5522A	565	1N5846B	565	1NJ61677	1122	1R5GZ61-K	1114	1S34S	1123	1S108R	1114	1S189	1123
1N5522B	565	1N5847	565	1NJ61725	1122	1R5GZ61-L	1114	1S35	1123	1S109	1114	1S189FM	1123
1N5523	565	1N5847A	565	1NJ70973	1123	1R5GZ61-OR	1114	1S36	1104	1S109R	1114	1S189FM(MP)	1123
1N5523A	565	1N5847B	565	1NJ70980	1122	1R5GZ61-Y	1114	1S37	561	1S110	1104	1S190	565
1N5523B	565	1N5850	561	1NJ70989	1123	1R5GZ61FA-1	1114	1S38	1122	1S110A	1104	1S194	562
1N5525	561	1N5850A	561	1NJ71126	1101	1R5GZ61FA	1114	1S39	1114	1S111	1104	1S197	563
1N5525A	561	1N5850B	561	1NJ71185	1123	1R5H	1104	1S40	1143	1S112	1104	1S200	1123
1N5525B	561	1N5854	562	1NJ71186	1101	1R5JZ61-A	1114	1S42	1144	1S113	1104	1S204	1104
1N5529	562	1N5854A	562	1NJ71224	1122	1R5JZ61-B	1114	1S43	1144	1S113A	1104	1S205	1104
1N5529A	562	1N5854B	562	1NZ61	1114	1R5JZ61-C	1114	1S44	1104	1S114	1104	1S206	1104
1N5529B	562	1N5855	562	1NZ61-A	1114	1R5JZ61-D	1114	1S47	1104	1S115	1104	1S207	1104
1N5532	563	1N5855A	562	1NZ61-B	1114	1R5JZ61-K	1114	1S50	1123	1S116	1104	1S208	1104
1N5532A	563	1N5855B	562	1NZ61-C	1114	1R5JZ61-L	1114	1S51	565	1S117	1114	1S209	1104
1N5532B	563	1N5858	563	1NZ61-D	1114	1R5JZ61-OR	1114	1S55	562	1S118	1104	1S210	1114
1N5532C	563	1N5858A	563	1NZ61-K	1114	1R5JZ61-V	1114	1S56	562	1S119	1104	1S210/2S16A	1114
1N5535	564	1N5858B	563	1NZ61-L	1114	1R5.1	565	1S58	1123	1S120	1104	1S211	1114
1N5535A	564	1N5861	564	1NZ61-OR	1114	1R9	1104	1S60	1123	1S121	1104	1S211/2S18A	1114
1N5535B	564	1N5861A	564	1NZ61-Y	1114	1R9D	1104	1S60(RECT)	1104	1S121(RECT)	1104	1S211A	1114
1N5550	1114	1N5861B	564	1P20-0906	2030	1R9H	1104	1S60P	1123	1S122	1104	1S212	562
1N5551	1114	1N5898	1141	1P20-0029	2016	1R9I	1104	1S61	1104	1S123	1104	1S213	562
1N5552	1114	1N5899	1143	1P20-0032	2009	1R9J	1104	1S62	1104	1S124	1104	1S214	562
1N5562	562	1N5900	1143	1P20-0034	2016	1R9L	1104	1S63	1104	1S125	1104	1S217	562
1N5562A	562	1N5901	1144	1P20-0036	2020	1R9P	1104	1S64	1104	1S126	1104	1S218	1122
1N5563B	562	1N5992	565	1P20-0037	2016	1R9U	1104	1S65	1104	1S127	1123	1S224	562
1N5565	563	1N5992A	565	1P20-0041	2009	1R9.1A	562	1S66	1104	1S128	1123	1S227	563
1N5565A	563	1N5992B	565	1P20-0046	2023	1R9.1B	562	1S71	1104	1S128FM	1123	1S230	564
1N5565B	563	1N5993	565	1P20-0060	1123	1R10D3K	1122	1S72	1123	1S129	1123	1S268AA,T	1104
1N5567	564	1N5993A	565	1P20-0061	1122	1R12	563	1S73	1123	1S130	1122	1S268T	1104
1N5567A	564	1N5993B	565	1P20-0083	2020	1R12A	563	1S73A	1123	1S131	1122	1S301.5	564
1N5567B	564	1N5995	561	1P20-0086	565	1R12B	563	1S74	1123	1S132	1122	1S304	562
1N5605	1122	1N5995A	561	1P20-0110	2016	1R15	564	1S75	1123	1S133	562	1S306	1122
1N5606	1122	1N5995B	561	1P20-0120	1104	1R15A	564	1S77	1123	1S134	565	1S306M	1122
1N5607	1122	1N5999	562	1P20-0122	2009	1R15B	564	1S77H	1123	1S136(RECT)	1104	1S307	1122
1N5608	1122	1N5999A	562	1P20-0159	2023	1R81	1104	1S78	1123	1S136Q	1103	1S309	1104
1N5609	1122	1N5999B	562	1P20-0213	2023	1R90	1104	1S78H	1123	1S138	562	1S310	1104
1N5610	1122	1N6002	563	1P20-0214	1617	1R96	1114	1S79	1123	1S138(RECT)	1114	1S310H	1104
1N5614	1104	1N6002A	563	1P60F	1123	1R106B1	1067	1S79H	1123	1S138(ZENER)	562	1S311H	1104
1N5614GP	1104	1N6002B	563	1P100	1067	1R106B1-C	1067	1S80	1123	1S139	562	1S311N	1104
1N5615	1104	1N6004	564	1P101	1067	1R106B2	1067	1S81	1104	1S141	563	1S312	1104
1N5615GP	1104	1N6004A	564	1P102	1067	1R106B3	1067	1S82	1123	1S142	564	1S312A	1104
1N5616	1104	1N6004B	564	1P103	1067	1R106B4	1067	1S83	1104	1S144	1122	1S312H	1104
1N5616GP	1104	1N6083	565	1P541	1123	1R106B41	1067	1S84	1122	1S147	1104	1S313	1104
1N5617	1104	1N6083A	565	1P542	1123	1R106D1	1020	1S84H	1104	1S148	1104	1S313H	1104
1N5617GP	1104	1N6083B	565	1P643	1141	1R106D2	1020	1S85V	1104	1S149	1104	1S314	1104
1N5624	1143	1N6084	565	1P644	1143	1R106D3	1020	1S87	1123	1S150	1104	1S314H	1104
1N5624GP	1143	1N6084A	565	1P645	1144	1R106D4	1020	1S88	1123	1S155	1122	1S314N	1104
1N5625	1144	1N6084B	565	1P646	1144	1R106D41	1020	1S89	1122	1S155-1	1122	1S315	1104
1N5625GP	1144	1N6086	561	1P647	1144	1R914	1122	1S90	1104	1S180	1122	1S315FR1MD	1114
1N5679	1104	1N6086A	561	1R0	1122	1RC5	1067	1S90R	1122	1S180/5GB	1104	1S315H	1104
1N5680	1104	1N6086B	561	1R01	1104	1RC10	1067	1S91	1104	1S180-M	1104	1S316	1114
1N5711	1122	1N6090	562	1ROE	1114	1RC20	1067	1S91R	1104	1S180B	1122	1S317	1114
1N5713	1122	1N6090A	562	1ROF	1114	1RC30	1020	1S92	1104	1S181	1122	1S318	1123
1N5719	1122	1N6090B	562	1ROH	1104	1RC40	1020	1S92R	1104	1S181-M	1104	1S319	1123
1N5720	1122	1N33974	562	1R1D	1104	1RE10	1104	1S93	1104	1S181FA	1122	1S320	565
1N5721	1122	1N36001	1122	1R1K	1104	1ROE	1122	1S93/SGJ	1104	1S182	1122	1S322	1122
1N5726	1122	1N70980	1122	1R2	1122	1ROF	1104	1S93R	1104	1S182-M	1104	1S323	1123
1N5727	1122	1N601000-17	1123	1R2A	1104	1ROH	1104	1S94	1104	1S183	1104	1S324	1122
1N5728	565	1NA4	1123	1R2D	1104	1R-TR24	2016	1S94R	1104	1S183-M	1104	1S325	1122
1N5728B	565	1NA4G	1123	1R2E	1104	1R-TR25	2016	1S95	1122	1S184	1122	1S326	1122
1N5729	565	1MAG1	1123	1R3A	1122	1RTR51	2016	1S95R	1104	1S185	1123	1S327	1104
1N5729B	565	1NC61684	1104	1R3D	1104	1S005	1104	1S96	1114	1S186	1123	1S328	1104
1N5731	561	1NE11	1114	1R3G	1104	1S016	1104	1S96R	1114	1S186(FM)	1123	1S329	1114
1N5731B	561	1NE11-OR	1114	1R3J	1104	1S020							

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1S331	561	1S548	1125	1S871C	1114	1S1063	1104	1S1360	1104	1S1608	1114	1S1796	1122
1S332	561	1S552	1122	1S872	1104	1S1064	1104	1S1360A	1104	1S1621	1122	1S1801-02	1122
1S334	562	1S557	1114	1S872A	1104	1S1065	1114	1S1361	1104	1S1621-O	1122	1S1821	1114
1S334M	562	1S557M	1114	1S872B	1114	1S1066	1114	1S1361A	1104	1S1621-R	1122	1S1821R	1114
1S334H	562	1S558	1104	1S872C	1114	1S1071	1114	1S1362	1114	1S1621-Y	1122	1S1829	1114
1S337	563	1S559	1104	1S881	1104	1S1072	1143	1S1362A	1114	1S1622	1104	1S1829A	1114
1S337-Y	563	1S560	1122	1S881A	1104	1S1073	1144	1S1363	1114	1S1623	1104	1S1829B	1114
1S337A	563	1S560H	1122	1S881B	1114	1S1076	1114	1S1363A	1114	1S1624	1104	1S1829C	1114
1S337E	563	1S568	1122	1S881C	1114	1S1076TF1	1122	1S1365	1104	1S1625	1104	1S1829D	1114
1S337Y	563	1S588	1104	1S882	1104	1S1095	1104	1S1365A	562	1S1664	1104	1S1829K	1114
1S347	561	1S589	1123	1S882A	1104	1S1096	1104	1S1366	1104	1S1666	1104	1S1829L	1114
1S354	1123	1S593	1104	1S882B	1114	1S1121	1171	1S1366A	1104	1S1667	1104	1S1829Y	1114
1S355	1123	1S597	564	1S882C	1114	1S1123	1173	1S1367	1104	1S1668	1104	1S1830	1114
1S356	1123	1S633	565	1S885	1104	1S1124	1173	1S1367A	1104	1S1668F	1104	1S1830A	1114
1S357	1123	1S634	565	1S887	1104	1S1146	1104	1S1368	1114	1S1669	1114	1S1830B	1114
1S358	1104	1S635	561	1S920	1122	1S1147	1122	1S1368A	1114	1S1670	1171	1S1830C	1114
1S358A	1104	1S661	1104	1S921	1122	1S1148	1122	1S1369	1114	1S1672	1173	1S1830D	1114
1S358S	1104	1S662	1114	1S921(RECT)	1143	1S1149	1122	1S1369A	1114	1S1678	1104	1S1830K	1114
1S359	1104	1S663	1114	1S922	1144	1S1161	565	1S1375	561	1S1679	1104	1S1830L	1114
1S367	1104	1S685	1104	1S922(DIODE)	1122	1S1172	565	1S1375A	561	1S1680	1104	1S1830Y	1114
1S369	1104	1S686	1114	1S922(RECT)	1144	1S1173	561	1S1377	562	1S1681	1104	1S1834	1104
1S369	1104	1S687	1114	1S923	1122	1S1175	562	1S1377A	562	1S1682	1114	1S1835	1104
1S370	1104	1S691	565	1S941	1122	1S1177	564	1S1390	561	1S1683	1114	1S1845	1104
1S371	1104	1S693	1122	1S942	1122	1S1201	561	1S1390A	561	1S1684	1104	1S1845A	1104
1S372	1104	1S696	563	1S943	1104	1S1201(H)	561	1S1392	562	1S1685	1104	1S1845B	1104
1S373	1104	1S697	564	1S946	1104	1S1207	1122	1S1392A	562	1S1686	1104	1S1845C	1114
1S374	1104	1S731	1122	1S947	1104	1S1208	1122	1S1404	565	1S1687	1104	1S1845D	1114
1S375	1104	1S744	1123	1S948	1104	1S1213	1122	1S1404R	565	1S1688	1114	1S1846	1104
1S376	1104	1S745	1123	1S949	1114	1S1214	1122	1S1406	561	1S1689	1114	1S1846A	1104
1S377	1104	1S746	1123	1S950	1114	1S1215	1122	1S1406R	561	1S1690	1123	1S1846B	1104
1S370	1104	1S747	1123	1S951	1122	1S1216	1122	1S1408	562	1S1690A	1104	1S1846C	1114
1S379	1104	1S748	1123	1S952	1122	1S1217	1122	1S1408R	562	1S1691	1104	1S1846D	1114
1S380	1104	1S755	565	1S953	1122	1S1218	1122	1S1420H	1122	1S1691A	1104	1S1848	1104
1S381	1104	1S755(H)	565	1S954	1122	1S1219	1122	1S1471	1114	1S1692A	1104	1S1849	1104
1S382	1104	1S755H	565	1S954(2)	1122	1S1219M	1122	1S1473	1122	1S1693	1104	1S1849R	1104
1S390	1104	1S757A	562	1S955	1122	1S1220	1122	1S1474	1143	1S1693A	1104	1S1850	1104
1S393	1104	1S758	562	1S956	1143	1S1221	1104	1S1475	1144	1S1694A	1104	1S1850R	1104
1S394	1104	1S758(H)	562	1S957	1144	1S1222	1104	1S1486	1104	1S1695	1114	1S1851	1104
1S395	1104	1S758GS	562	1S961	1122	1S1223	1104	1S1487	1104	1S1695A	1104	1S1851R	1104
1S396	1104	1S758H	562	1S977	1122	1S1224	1104	1S1488	1143	1S1696	1104	1S1855	1122
1S397	1114	1S773	1122	1S978	1122	1S1225	1114	1S1489	1144	1S1696A	1104	1S1881AM	1104
1S398	1114	1S773A	1122	1S981	1122	1S1225A	1114	1S1514	1122	1S1697	1104	1S1885	1104
1S399	1104	1S774	1122	1S982	1122	1S1230	1104	1S1515	1122	1S1698	1104	1S1885-S	1104
1S400	1104	1S774A	1122	1S983	1122	1S1230H	1104	1S1516	1122	1S1701	1122	1S1885A	1102
1S401	1114	1S775	1122	1S984	1122	1S1231	1104	1S1522	1122	1S1710	1122	1S1885FA	1102
1S402	1114	1S775FA-1	1104	1S985	1122	1S1231H	1104	1S1546	1104	1S1711	1122	1S1886	1102
1S404	1104	1S776	1122	1S986	1122	1S1232	1104	1S1547	1104	1S1712	1122	1S1886A	1102
1S405	1114	1S776A	1122	1S987	1122	1S1232H	1104	1S1548	1104	1S1712A	1122	1S1887	1103
1S406	1114	1S777	1104	1S988	1122	1S1232N	1104	1S1552	1104	1S1713	1122	1S1887(AU)	1103
1S426	1122	1S788	1123	1S990	1122	1S1233	1114	1S1553	1122	1S1714	1122	1S1887(FA)	1103
1S426G	1123	1S801	1122	1S990-AM	1122	1S1233H	1114	1S1553(TV)	1122	1S1715	561	1S1887A	1102
1S426GFM	1123	1S802	1122	1S990A	1122	1S1233N	1114	1S1553V(TV)	1122	1S1717	562	1S1887A(FA-1)	1102
1S426	1123	1S803	1122	1S990AM	1123	1S1254	1114	1S1554(TV)	1122	1S1718	562	1S1887AFA	1104
1S430	1141	1S804	1122	1S990S	564	1S1244H	1114	1S1554	1122	1S1718	562	1S1887AFA-1	1103
1S431	1143	1S805	1122	1S994A	1122	1S1244N	1114	1S1554(TV)	1122	1S1720	1114	1S1887ALC	1103
1S441	1123	1S806	1122	1S994S	565	1S1239	1123	1S1554V(TV)	1122	1S1720R	1114	1S1887ALC-7	1103
1S442	1123	1S807	1122	1S1001	1122	1S1244	1123	1S1555	1122	1S1723	1104	1S1887A-Z	1103
1S444	1122	1S808	1122	1S1004	1104	1S1245	1123	1S1555(TV)	1122	1S1724	1104	1S1887FA	1104
1S446	1123	1S811	1104	1S1005	1123	1S1246	1123	1S1555-1	1122	1S1724R	1104	1S1887FA-1	1104
1S446D	1123	1S812	1104	1S1006	1123	1S1255A	1114	1S1555-K	1122	1S1725	1104	1S1888	1104
1S447	1123	1S813	1114	1S1007	1123	1S1295	1122	1S1555-S	1122	1S1725R	1104	1S1888V	1104
1S448	1123	1S814	1114	1S1007S	1123	1S1296	1122	1S-1555-Z	1122	1S1726	1104	1S1891	1114
1S449	1123	1S816	1104	1S1008	1123	1S1297	1171	1S1555FA-1	1122	1S1726R	1104	1S1892	1114
1S451	1123	1S817	1104	1S1009	1123	1S1298	1104	1S1555FA1	1122	1S1727	1104	1S1906	1104
1S452	1123	1S818	1114	1S1010	1123	1S1299	1104	1S1555STP	1122	1S1727R	1104	1S1914	1143
1S453	1123	1S819	1114	1S1012	1104	1S1301	1122	1S1555STP3	1122	1S1728	562	1S1915	1143
1S454	1123	1S841	1104	1S1013	1104	1S1302	1122	1S-1555V	1122	1S1728R	1104	1S1916	1144
1S455	1123	1S842	1104	1S1014	1114	1S1303	1122	1S1555V	1122	1S1729	1104	1S1921A	1104
1S456	1122	1S843	1104	1S1015	1114	1S1304	1122	1S1555V(TV)	1122	1S1729R	1104	1S1921B	1104
1S457	1122	1S844	1104	1S1021	1104	1S1305	1122	1S1555Z	1122	1S1730	1104	1S1921C	1104
1S458	1104	1S844N	1104	1S1022	1104	1S1314	1101	1S1579	1122	1S1730R	1104	1S1921D	1104
1S459	1104	1S845	1104	1S1023	1114	1S1316	1122	1S1580	1122	1S1731	1114	1S1921E	1104
1S460	1122	1S846	1104	1S1024	1114	1S1317	1122	1S1585	1122	1S1731R	1114	1S1921F	1104
1S461	1122	1S846N	1104	1S1027	1104	1S1318	1104	1S1586	1122	1S1732	1114	1S1941	1104
1S462	1122	1S847	1114	1S1028	1104	1S1319	1104	1S1587	1122	1S1732R	1114	1S1941B	1122
1S463	1143	1S848	1114	1S1029	1114	1S1320	1122	1S1588	1122	1S1734	565	1S1941L	1101
1S464	1122	1S848N	1114	1S1030	1114	1S1333	1104	1S1588-FM	1123	1S1735	561	1S1942	1104
1S465	1122	1S849	1104	1S1039	1144	1S1341	1104	1S1588V	1122	1S1737	562	1S1943	1104
1S467R	1123	1S849,R	1104	1S1043	1104	1S1342	1104	1S1589	1122	1S1739	563	1S1944	1114
1S468	1122	1S849R	1104	1S1044	1104	1S1343	1104	1S1597	1104	1S1740	564	1S1948	1104
1S472	562	1S850	1114	1S1045	1114	1S1344	1104	1S1598	1104	1S1766	565	1S1949	1104
1S480	561	1S850M	1114	1S1046	1114	1S1345	1114	1S1599	1104	1S1767	561	1S1950	1104
1S482	562	1S851	1123	1S1052	1122	1S1346	1104	1S1600	1104	1S1769	562	1S1955	565
1S500	1122	1S854	1144	1S-1053	1144	1S1347	1122	1S1601	1104	1S1772	564	1S1956	561
1S501	1122	1S871	1104	1S1053	1								

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1S1972	1122	1S2229	1104	1S2454	561	1S3305	565	1SR17-200	1143	1S550	1122	1S5202	1122
1S1972-M	1122	1S2230	1104	1S2455	1143	1S3585	1123	1SR17-400	1144	1S551	1122	1S5203	1122
1S1973	1122	1S2231	1114	1S2456	1143	1S4266	1123	1SR30-200	1104	1S5-53	1122	1S5204	1122
1S1973-M	1122	1S2238	1114	1S2457	1144	1S4266FM	1123	1SR30-400	1114	1S553	1122	1S5205	1122
1S1991	1143	1S2239	1114	1S2460	1122	1S4735	565	1SR30-600	1104	1S554	1122	1S5206	1122
1S2019	1114	1S2240	1114	1S2461	1122	1S5277B	1104	1SR31-800	2023	1S554-T4	1122	1S5207	1122
1S2047	565	1S2241	1114	1S2461V-Y	1122	1S5295G	1104	1SR31-1000	1114	1S555	1122	1S5208	1122
1S2047A	565	1S2242	1114	1S2462	1122	1S5295J	1104	1SR34	1122	1S568	1122	1S5209	1122
1S2051	565	1S2243	1114	1S2463	1104	1S5454	1123	1SR35	1122	1S581	1122	1S5210	1122
1S2051A	565	1S2244	1104	1S2471	1122	1S7047	565	1SR35-50	1101	1S5-82	1104	1S5211	1122
1S2051B	565	1S2245	1104	1S2471A	1122	1S7047A	565	1SR35-50A	1101	1S582	1104	1S5212	1122
1S2062	561	1S2246	1104	1S2471TA	1122	1S7047B	565	1SR-35-100	1104	1S583	1122	1S5213	1122
1S2062A	561	1S2269	1104	1S-2472	1122	1S7051	565	1SR35-100	1104	1S584	1122	1S5214	1122
1S2063	1114	1S2271	1104	1S2472	1122	1S7051A	565	1SR35-100-Z	1104	1S592	1122	1S5215	1122
1S2067	562	1S2272	1104	1S2473	1122	1S7051B	565	1SR35-100A	1104	1S593	1122	1S5217	1122
1S2068	562	1S2273	1114	1S2473*7A	1122 N8	1S7062	561	1SR35-200	1102	1S594	1122	1S5218	1122
1S2069	562	1S2274	1114	1S2473*7K	1122 N8	1S7062A	561	1SR35-200A	1102	1S595	1122	1S5219	1122
1S2070	1122	1S2275FA-1	1104	1S2473-K	1122	1S7062B	561	1SR-35-400	1103	1S5102	1122	1S5220	1122
1S2071	1122	1S2276	1122	1S2473-T72	1122	1S7091	562	1SR35-400	1103	1S5104	1122	1S5221	1122
1S2071A	1122	1S2277	1104	1S2473H	1122	1S7091A	562	1SR35-400A	1103	1S5104(FA)	1122	1S5222	1122
1S2072	1122	1S2278	1104	1S2473HC	1122	1S7091B	562	1SR55-50	1114	1S5104FA	1122	1S5223	1122
1S2074	1122	1S2279	1104	1S2473H-Y	1122	1S7120	563	1SR55-100	1114	1S5109	1122	1S5226	1122
1S2074H	1122	1S2304	565	1S2473I	1122	1S7120A	563	1SR55-200	1104	1S5110	1122	1S5227	1122 N3
1S2075	1122	1S2310	1104	1S2473K	1122	1S7120B	563	1SR68	1114	1S5110FQ	1122	1S5229	1122 N2
1S2075K	1122	1S2311	1114	1S2473T	1122	1S7150	564	1SR69	1104	1S5110T	1122	1S5230	1122 N2
1S2076	1122	1S2312	1114	1S2473TA	1122	1S7150A	564	1SR70-100	1171	1S5110Y	1122	1S5231	1122 N1
1S2076-27	1122	1S2313	1104	1S2473VE	1122	1S7150B	564	1SR70-400	1173	1S5117	1122	1S5232	1122 N1
1S2076-TF1	1122	1S2314	1114	1S2479	1123	1S9413	1104	1SR77-200	1104	1S5118	1122	1S5233	1122 N2
1S2076-TF1	1122	1S2315	1114	1S2486	565	1S9908	1123	1SR77-400	1114	1S5119	1122	1S5234	1122 N2
1S2076A	1122	1S2316	1104	1S2486R	565	1S15188	1122	1SR77-600	1104	1S5119-041T	1122	1S5235	1122 N1
1S2076A/-07 27	1122	1S2317	1104	1S2487	565	1S19413	1104	1SR77-800	1114	1S5119-14	1122	1S5236	1122 N1
1S2076A-07	1122	1S2348	1122	1S2489	561	1S19413T	1104	1SR77-1000	1104	1S5119-14FQ	1122	1S5240	1122
1S2076A-07-27	1122	1S2350	1144	1S2493	562	1S21447	1122	1SR78-200	1104	1S5119TD	1122	1S5243	1122
1S2076F	1122	1S2351	1104	1S2496	563	1S801-02	1104	1SR78-400	1114	1S5119TG	1122	1S5250	1122
1S2076TF1	1122	1S2352	1104	1S2543	565	1SC683	2016	1SR79-800	2023	1S5120	1122	1S5251	1104
1S2080	1104	1S2353	1114	1S2543R	565	1SC929	2016	1SR79-1000	1114	1S5121	1122	1S5252	1122
1S2081	1104	1S2354	1114	1S2546	561	1SC2367	1122	1SR91-100	1114	1S5122	1104	1S5253	1122
1S2091	1122	1S2356	1104	1S2547	561	1SD-2	1104	1SR91-200	1114	1S5123	1122	1S5254	1122
1S2091-BK	1122	1S2357	1104	1S2550	562	1SD2	1104	1SR91-400	1114	1S5130	1122	1S5267	1104
1S2091-BL	1122	1S2358	1104	1S2553	563	1SD1212	1104	1SR96-200	1102	1S5131	1122	1S5270	1122
1S2091-W	1122	1S2359	1104	1S2588	1122	1SZ09	1104	1SR96-400	1103	1S5132	1122	1S5270A	1122
1S2091A	562	1S2361	1104	1S2589	1104	1SM1	1104	1SR96-600	1104	1S5133	1122	1S5272	1122
1S2091B	1122	1S2362	1104	1S2590	1104	1S-M2511-801050358	1122	1SR97-800	1114	1S5133-Y	1122	1S5273	1122
1S2091BL	1122	1S2363	1104	1S2591	1104			1SR97-1000	1114	1S5134	1122	1S5274	1122
1S2091W	1122	1S2364	1114	1S2596	1143	1SO30	1104	1SR99-100	1104	1S5135	1122	1S5275	1122
1S2092	1122	1S2365	1114	1S2597	1122	1SO31	1104	1SR99-200	1102	1S5136	1122	1S5276	561
1S2095	1122	1S2367	1104	1S2602	1104	1SO32	1104	1SR99-400	1103	1S5137	1122	1S5277	561
1S2095A	1122	1S2371	1171	1S2603	1104	1SO34	1104	1SR99A-100	1104	1S5138	1122	1S240-12	563
1S2097	1122	1S2371A	1171	1S2604	1104	1SO36	1104	1SR99A-200	1102	1S5139	1122	1S240-15	564
1S2098	1122	1S2372	1104	1S2605	1104	1SO38	1104	1SR99A-400	1103	1S5140	1122	1S250	561
1S2099	1122	1S2373	1104	1S2606	1104	1SO58	1114	1SR100-200	1102	1S5141	1122	1S251	561
1S2109	565	1S2373A	1173	1S2607	1114	1SR1FM4	1104	1SR100-400	1103	1S5142	1104	1S252	561
1S2109A	565	1S2374	1104	1S2608	1114	1SR1K	1104	1SR100-600	1104	1S5143	1104	1S253	561
1S2112AFA-1	561	1S2375	1104	1S2609	1114	1SR11-100	1114	1SR100-800	1114	1S5144	1104	1S255-C4V7	565
1S2116	562	1S2376	1104	1S2610	1114	1SR11-200	1104	1SR101-800	1114	1S5145	1104	1S255-C5V1	565
1S2116A	562	1S2376A	1173	1S2618	1114	1SR11-400	1114	1SR112-800	1114	1S5146	1104	1S255-C6V2	561
1S2119	563	1S2377	1114	1S2675	1104	1SR11-600	1104	1SR112-1000	1114	1S5147	1104	1S255-C9V1	562
1S2119A	563	1S2379	1144	1S2676	1104	1SR11-800	1114	1SR117-100	1114	1S5148	1122	1S255-C12	563
1S2120	563	1S2390	1104	1S2692AB	1122	1SR11-1000	1114	1SR117-200	1114	1S5149	1104	1S255-C15	564
1S2120A	563	1S2391	1104	1S2757	1104	1SR12-50	1104	1SR117-400	1114	1S5150	1122	1S261	561
1S2121	564	1S2392	1104	1S2760	1141	1SR12-100	1114	1SR117-600	1114	1S5150(A)	1122	1S263	563
1S2121A	564	1S2393	1104	1S2761	1143	1SR12-200	1104	1SR117-800	1114	1S5152	1122	1T2C1	1104
1S2124	1104	1S2394	1104	1S2762	1143	1SR12-400	1114	1SR119-100	1104	1S5152(A)	1122	1T2Z1	1104
1S2126	562	1S2395	1104	1S2763	1144	1SR12-600	1104	1SR119-200	1102	1S5163	1122	1T6.2	561
1S2127	563	1S2396	1104	1S2764	1144	1SR12-800	2023	1SR119-400	1103	1S5164	1122	1T6.2A	561
1S2128	561	1S2397	1114	1S2768A	1114	1SR12-1000	1114	1SR124-50	1101	1S5168(A)	1122	1T6.2B	561
1S2129	562	1S2398	1114	1S2769	561	1SR13-50	1114	1SR124-50A	1101	1S5169	1122	1T9.1	562
1S2130	563	1S2399	1114	1S2770	561	1SR13-100	1114	1SR124-100	1104	1S5170	1122	1T9.1A	562
1S2134	1122	1S2400	1114	1S2771	561	1SR13-200	1104	1SR124-100A	1104	1S5171	1122	1T9.1B	562
1S2135	1122	1S2401	1104	1S2774	561	1SR13-400	1114	1SR124-200	1104	1S5172	1104	1T11.5A	563
1S2137	562	1S2402	1104	1S2775FA1	1104	1SR13-600	1104	1SR124-200A	1104	1S5173A	1122	1T12	563
1S2138	563	1S2403	1114	1S2776	1114	1SR13-800	2023	1SR124-400-Z	1104	1S5175	1122	1T12A	563
1S2140	1104	1S2404	1104	1S2777	1104	1SR13-1000	1114	1SR124-400-Z	1104	1S5175A	1122	1T12B	563
1S2144	1122	1S2405	1114	1S2779	1144	1SR14-50	1114	1SR124-400A	1104	1S5176	1122	1T15	564
1S2144A	1122	1S2406	1114	1S2787	1122	1SR14-100	1114	1SR124-400V-Z	1104	1S5176(FA)	1122	1T15B	564
1S-2144Z	1122	1S2408	1141	1S2788	1122	1SR14-200	1104	1SR138	1122	1S5176FA	1122	1T19.15B	564
1S2144Z	1122	1S2409	1114	1S2788B	1122	1SR14-400	1114	1S519	1122	1S5177	1122	1T22	1123
1S2145	1122	1S2410	1143	1S2827A	1143	1SR15-50	1141	1S524	1122	1S5178	1122	1T22(A)	1123
1S2150	564	1S2411	1144	1S2828A	1144	1SR15-100	1143	1S525	1122	1S5178(FA)	1122	1T22A	1123
1S2150A	564	1S2412	1144	1S2832	1104	1SR15-200	1143	1S526	1122	1S5178-Y	1122	1T22AJ	1123
1S2195	562	1S2415	1141	1S2833	2023	1SR15-400	1144	1S527	1122	1S5178FA	1122	1T22AM	1123
1S2196	563	1S2416	1143	1S3009	562	1SR16-50	1141	1S528	1122	1S5187	1122	1T22B	1123
1S2204</													

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1T23J	1123	1W52	1114	1ZM5.1T20	565	2C8DM	1114 N2	2KBP04	1172	2N552	1617	2N755	2030
1T23M	1123	1W54	1144	1ZM6.1T5	561	2C8M	1114 N2	2M214	562	2N560	2030	2N756	1617
1T23S	1123	1W58	1114	1ZM6.2T10	561	2C10	1114	2M6219	2016	2N619	1617	2N756A	1617
1T26	1123	1W510	1114	1ZM6.2T20	561	2C10DM	1114 N2	2MN6374	2016	2N620	1617	2N757	1617
1T28-2	1123	1X9179	1122	1ZM9.1T5	562	2C10M	1114 N2	2MW665	1123	2N621	1617	2N757A	1617
1T40	1122	1X9805	1122	1ZM9.1T10	562	2C12DM	1114 N2	2N2J324	2030	2N622	1617	2N757B	2009
1T188	1123	1X9809	1122	1ZM9.1T20	562	2C12M	1114 N2	2N117	2009	2N655A	2030	2N758	1617
1T213	1123	1Z4.7	565	1ZM12T5	563	2C16DM	1114 N2	2N118	2009	2N656	2030	2N758A	1617
1T220	2035	1Z4.7A	565	1ZM12T10	563	2C16M	1114 N2	2N118A	2009	2N656A	2030	2N758B	1617
1T229-2	1104	1Z4.7B	565	1ZM12T20	563	2C20DM	1114 N2	2N119	2009	2N656S	2030	2N759	1617
1T231	1123	1Z5.1	565	1ZM15T5	564	2C20M	1114 N2	2N120	2009	2N657	2030	2N759A	1617
1T236	1123	1Z5.1A	565	1ZM15T10	564	2CS537C	2016	2N160	2009	2M657S	2030	2N759B	1617
1T240	1123	1Z5.1B	565	1ZM15T20	564	2CY38	2023	2N160A	2009	2N696	1617	2N760	1617
1T240A	1123	1Z5.1T5	565	1ZT12	563	2CY39	2023	2N161	2009	2M696A	2030	2N760A	1617
1T243	1122	1Z6.2	561	1ZT12B	563	2D002	2009	2N161A	2009	2N696S	2030	2N760B	1617
1T243M	562	1Z6.2A	561	1ZT15	564	2D002-41	2009	2N162	2009	2N697	2030	2N761	1617
1T261	1123	1Z6.2B	561	1ZT15B	564	2D002-168	1617	2N162A	2016	2N697A	2030	2N762	1617
1T262	1123	1Z6.2T5	561	1.000.111-00	2023	2D002-169	1617	2N163	2009	2N699	2030	2N770	1617
1T378	1104	1Z6.2T20	561	1.5B05	1114	2D002-170	2009	2N163A	2009	2N699A	2030	2N771	1617
1T501	1104	1Z9.1	562	1.5C05	1114	2D002-175	2009	2N263	2009	2N699A,B	2030	2N772	1617
1T502	1104	1Z9.1A	562	1.5E05	1141	2D010	2041	2N264	2009	2N699B	2030	2N773	1617
1T503	1104	1Z9.1B	562	1.5E1	1143	2D017-165	2023	2N332	1617	2N701	1617	2N774	1617
1T504	1104	1Z9.1C	562	1.5E2	1143	2D017-166	2023	2N332A	1617	2N702	1617	2N775	1617
1T505	1104	1Z9.1D	562	1.5E3	1114	2D017-167	2023	2N333	1617	2N703	1617	2N776	1617
1T506	1104	1Z9.1D5	562	1.5E4	1144	2D017-169	2023	2N333A	1617	2N706	1617	2N777	1617
1T507	1114	1Z9.1D10	562	1.5E7	1114	2D026	2009	2N334	1617	2N706/46	1617	2N778	1617
1T508	1114	1Z9.1D15	562	1.5E8	1114	2D026-274	2009	2N334A	1617	2N706/51	1617	2N780	1617
1T509	1114	1Z9.1T5	562	1.5E10	1114	2D027	2023	2N334B	1617	2N706/TNT	1617	2N783	1617
1T510	1114	1Z9.1T10	562	1.5J05	1141	2D031	2062	2N335	1617	2N706A	1617	2N784	1617
1T929	2009	1Z9.1T20	562	1.5J1	1143	2D033	2009	2N335A	1617	2N706A/46	1617	2N784A/51	1617
1T930	2009	1Z12	563	1.5J2	1143	2D41	1067	2N335B	1617	2N706A/51	1617	2N784A	1617
1T1331	1123	1Z12A	563	1.5J3	1144	2D84A	1173	2N336	1617	2N706A/TNT	1617	2N784A/46	1617
1T2011	1104	1Z12E	563	1.5J4	1144	2D2	1123	2N336A	1617	2N706B	1617	2N784A/51	1617
1T2012	1104	1Z12C	563	1.5J7	1114	2DG2C41	1114 N2	2N337	1617	2N706B/46	1617	2N784A/B	2009
1T2013	1104	1Z12D	563	1.5J8	1114	2DG2Z41	1114 N1	2N337A	1617	2N706B/51	1617	2N784	1617
1T2014	1104	1Z12D5	563	1.5J10	1114	2D033	2009	2N338	1617	2N706C	1617	2N790	1617
1T2015	1104	1Z12D10	563	2(3395	2009	2E05	1104	2N338A	1617	2N706M-JAN	1617	2N791	1617
1T2016	1104	1Z12T5	563	2-00045-345	2009	2E1	1104	2N339	2030	2N707A	1617	2N792	1617
1T20105	1104	1Z12T10	563	2-00045-424	2009	2E2	1114	2N339A	2030	2N708	1617	2N793	1617
1TA6.2	561	1Z12T20	563	2-0A90	1123	2E2DM	1114 N1	2N339O-U29	2009	2N708/46	1617	2N834	1617
1TA6.2A	561	1Z15	564	2-55R3	2009	2E4	1104	2N340	2030	2N708/51	1617	2N834A	1617
1TA6.2B	561	1Z15A	564	2-02K	1104	2E4DM	1114 N1	2N340A	2030	2N708/TNT	1617	2N834B	1617
1TA9.1	562	1Z15B	564	2-02L	1104	2E6	1114	2N342	2030	2N708A	1617	2N834A	1617
1TA9.1A	562	1Z15C	564	2-02R	1104	2E6DM	1114 N1	2N342A	2030	2N709	2016	2N835	1617
1TA12	563	1Z15D	564	2-0A90	1123	2E8	1114	2N342B	2030	2N709/52	2016	2N835A/B	1617
1TA12A	563	1Z15D5	564	2A21	565	2E8DM	1114 N1	2N343	2030	2N709A	2016	2N835/51	1617
1TA15	564	1Z15D10	564	2A21(ZENER)	565	2E10	1114	2N343A	2030	2N711/46	2016	2N839	1617
1TA15A	564	1Z15D20	564	2A22	565	2E10DM	1114 N1	2N385/46	2009	2N715	1617	2N840	1617
1TB06	1104	1Z15T5	564	2A22(ZENER)	565	2E12DM	1114 N1	2N422/A	2035	2N716	2009	2N841	1617
1T505	1104	1Z15T10	564	2A30	1114	2E16DM	1114 N1	2N431	1617	2N717	1617	2N841/46	1617
1TV24237	1104	1Z15T20	564	2A50	1122	2E20DM	1114 N1	2N432	1617	2N717A	2016	2N841/KVT	1617
1TWC8H	562	1Z91.D10	562	2A100	1114	2EM03	1114	2N433	1617	2N718	1617	2N842	1617
1TWC8L	562	1Z91.D10	562	2A119	1123	2EM05	1114	2N470	1617	2N718A	1617	2N843	1617
1TWC8M	562	1ZB12	563	2A200	1114	2EM015	1114	2N471	1617	2N721	2023	2N844	1617
1U55F	1617	1ZB12B	563	2A400	1114	2EM6	1114	2N471A	1617	2N721A	2023	2N845	2030
1V3074A20	1104	1ZB15	564	2A500	1114	2EM8	1114	2N472	1617	2N721AB	2023	2N849	2016
1V3074A21	1104	1ZB15B	564	2A600	1114	2EM10	1114	2N472A	1617	2N722	2023	2N850	2016
1V9002	1123	1ZC5.1	565	2A800	1114	2F05	1141	2N473	1617	2N722A	2023	2N851	2016
1V68611A47	2023	1ZC6.2	561	2A1000	1114	2F2CN1	1114	2N474	1617	2N722AB	2023	2N852	2016
1V68611A47A	2023	1ZC9.1	562	2AA112	1123	2F2CN5	1114	2N474A	1617	2N728	1617	2N858	2023
1W10	1104	1ZC9.1T5	562	2AA113	1123	2F4	1104	2N475	1617	2N729	1617	2N858C	2023
1W1706	2035	1ZC9.1T10	562	2AA116	1123	2F5CN1	1114	2N475A	1617	2N730	2030	2N859	2023
1W9640	2035	1ZC12	563	2AA119	1123	2F6	1114	2N476	1617	2N731	2030	2N859D	2023
1W9940A	2023	1ZC12T5	563	2AA119(MP)	1123	2F8	1114	2N476A	2016	2N734	2030	2N860	2023
1W9728	2023	1ZC12T10	563	2AG	2016	2F10	1114	2N477	1617	2N734A	2030	2N860A	2023
1W9728A	2023	1ZC12T20	563	2AH	2016	2FB050	1171	2N478	1617	2N735	2030	2N861	2023
1W9782	2023	1ZC15	564	2AM-1	1067	2FB100	1171	2N479	1617	2N735A	2030	2N861A	2023
1W9782A	2023	1ZC15T5	564	2B2DM	1171	2G8	1104	2N479A	1617	2N736	2030	2N862	2023
1W9787	1617	1ZC15T10	564	2B2M	1171	2G13	1104	2N480	1617	2N736A	2030	2N862A	2023
1W9810	2023	1ZD12	563	2B2MS	1171	2G805	1104	2N480A	1617	2N736B	2030	2N863	2023
1W9810A	2023	1ZF5.1T5	565	2B6DM	1173	2GA	1104	2N480B	2030	2N739	2030	2N863A	2023
1W9810S	2023	1ZF5.1T10	565	2B6M	1173	2GG2C41	1114 N2	2N497	2030	2N739A	2030	2N864	2023
1W9810SA	2023	1ZF5.1T20	565	2B6MS	1173	2GG2Z41	1114 N1	2N497A	2030	2N740	2030	2N866	1617
1W11700	2023	1ZF9.1T5	562	2B8DM	1173	2H1254	2023	2N498	2030	2N740A	2030	2N867	1617
1W11700A	2023	1ZF9.1T10	562	2B8M	1173	2H1255	2023	2N541	1617	2N742	1617	2N870	2030
1W11702	2023	1ZF9.1T20	562	2B8MS	1173	2H1258	2023	2N541A	2016	2N742A	1617	2N871	2030
1W11702A	2023	1ZF12T5	563	2BG2C41	1114 N2	2H1259	2023	2N542	2030	2N743	1617	2N876	1067
1W11706	2035	1ZF12T10	563	2BG2Z41	1114 N1	2HR3J	1114	2N542A	1617	2N744	1617	2N877	1067
1W11708-1	1617	1ZF12T20	563	2C05	1114	2HR3M	1114	2N543	1617	2N745	1617	2N878	1067
1W11708-2	1617	1ZF15T5	564	2C20M	1114 N2	2ISD235-R	2020	2N543A	1617	2N746	1617	2N879	1067
1W11711	2023	1ZF15T10	564	2C2M	1114 N2	2J8138	1104	2N545	2030	2N747	1617	2N880	1067
1W11711A	2023	1ZF15T20	564	2C4DM	1114 N2	2JG2C41	1114 N2	2N546	1617	2N748	1617	2N881	1067
1WB-5A	565	1ZM4.7T5	565	2C4M	1114 N2	2JG2Z41	1114 N1	2N547	2030	2N749	1617	2N885	1067
1WB-9D	562	1ZM4.7T10	565	2C6	1114	2K02	1114	2N548	1617	2N752	2030	2N885A	1067
1WB-15D	564	1ZM4.7T20	565	2C6DM	1114 N2	2K19H	2035	2N549	2030	2N753	1617	2N888A	1067
1WM6	1104	1ZM5.1T5	565	2C6M	1114 N2	2KBP005							

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2N904	2016	2N1025M	2023	2N1257	2023	2N16135	2030	2N1989	2030	2N22305	1617	2N2378	2023
2N905	2016	2N1026	2023	2N1267	1617	2N1615	2030	2N1990	2030	2N2234	1617	2N2380	2030
2N906	2009	2N1026A	2023	2N1269	1617	2N1643	2023	2N1991	2023	2N2235	1617	2N2380A	2030
2N908	2030	2N1026AC	2023	2N1270	1617	2N1644	2030	2N1992	1617	2N2236	1617	2N2381	2030
2N909	1617	2N1027	2023	2N1271	1617	2N1644A	2030	2N2002	2023	2N2237	1617	2N2383	2041
2N910	2030	2N1027A	2023	2N1272	1617	2N1663	1617	2N2003	2023	2N2240	1617	2N2384	2041
2N911	2030	2N1028	2023	2N1276	1617	2N1674	1617	2N2004	2023	2N2241	1617	2N2387	2009
2N912	2030	2N1028A	2023	2N1277	1617	2N1676	2023	2N2005	2023	2N2242	1617	2N2388	2009
2N913	1617	2N1047	2020	2N1278	1617	2N1677	2023	2N2006	2023	2N2243	2030	2N2389	1617
2N914	1617	2N1048	2020	2N1279	1617	2N1682	1617	2N2007	2023	2N2243A	2030	2N2390	1617
2N914/46	1617	2N1049	2030	2N1279	1617	2N1700	2030	2N2017	2030	2N2244	1617	2N2393	2023
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2S373	2023	2SA480N	2023	2SA494C	2023	2SA502L	2023	2SA530U	2023	2SA561RED	2023	2SA564APQ	2023
2S324	2023	2SA480R	2023	2SA494D	2023	2SA502M	2023	2SA535	2023	2SA561Y	2023	2SA564AQ	2023
2S326	2023	2SA480X	2023	2SA494E	2023	2SA502OR	2023	2SA539(K)	2023	2SA561YEL	2023	2SA564AQ	2023
2S327	2023	2SA480Y	2023	2SA494F	2023	2SA502R	2023	2SA539(L)	2023	2SA561YL	2023	2SA564AQ-(HD)	2023
2S363	2009	2SA482	2023	2SA494G	2023	2SA502X	2023	2SA539(M)	2023	2SA562	2023	2SA564AQ	2023
2S501	1617	2SA482A	2023	2SA494GN	2023	2SA502Y	2023	2SA539A	2023	2SA562(O)	2023	2SA564AQ-R	2023
2S502	1617	2SA482B	2023	2SA494GR	2023	2SA509	2023	2SA539B	2023	2SA562(Y)	2023	2SA564A-R	2023
2S503	1617	2SA482C	2023	2SA494H	2023	2SA509(A)	2023	2SA539C	2023	2SA562-0	2023	2SA564AR	2023
2S517	1617	2SA482D	2023	2SA494I	2023	2SA509(O)	2023	2SA539D	2023	2SA562-GR	2023	2SA564B	2023
2S644(S)	2030	2SA482E	2023	2SA494J	2023	2SA509(O)	2023	2SA539E	2023	2SA562-GRN	2023	2SA564B	2023
2S645	2009	2SA482F	2023	2SA494K	2023	2SA509-O	2023	2SA539F	2023	2SA562-GRN	2023	2SA564B	2023
2S701	1617	2SA482G	2023	2SA494M	2023	2SA509-OR	2023	2SA539G	2023	2SA562-O	2023	2SA564C	2023
2S702	1617	2SA482GN	2023	2SA494O	2023	2SA509-R	2023	2SA539GN	2023	2SA562-ORG	2023	2SA564D	2023
2S703	1617	2SA482H	2023	2SA494OR	2023	2SA509-RD	2023	2SA539H	2023	2SA562-R	2023	2SA564E	2023
2S711	1617	2SA482J	2023	2SA494R	2023	2SA509-Y	2023	2SA539I	2023	2SA562-RD	2023	2SA564F	2023
2S712	1617	2SA482K	2023	2SA494X	2023	2SA509-YE	2023	2SA539J	2023	2SA562-RED	2023	2SA564FQ	2023
2S721	1617	2SA482L	2023	2SA494Y	2023	2SA509A	2023	2SA539K	2023	2SA562-TMO	2023	2SA564FQ-1	2023
2S732	1617	2SA482M	2023	2SA495	2023	2SA509B	2023	2SA539M	2023	2SA562-Y	2023	2SA564FR-1	2023
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2S745	2030	2SA489-R	2027	2SA495-O	2023	2SA509GN	2023	2SA542C	2023	2SA562O	2023	2SA564OR	2023
2S745A	2030	2SA489-Y	2027	2SA495-OF	2023	2SA509G-O	2023	2SA542D	2023	2SA562Q	2023	2SA564P	2023
2S1182D	2009	2SA490	2027	2SA495-ORG	2023	2SA509GR	2023	2SA542E	2023	2SA562Q	2023	2SA564PQR	2023
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2S3021	2023	2SA490-O	2027	2SA495-Q	2023	2SA509G-Y	2023	2SA542G	2023	2SA562RED	2023	2SA564Q	2023
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2S4402	2023	2SA490F	2027	2SA495A	2023	2SA509R	2023	2SA542O	2023	2SA562TM-O	2023	2SA564Y	2023
2S4447	2023	2SA490G	2027	2SA495B	2023	2SA509S	20						

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2SA565AB	2023	2SA570M	2023	2SA609K	2023	2SA642D	2023	2SA673AKD	2023	2SA704	2023	2SA725	2023
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2SA565BA	2023	2SA570R	2023	2SA609M	2023	2SA642F	2023	2SA673AS(C)	2023	2SA704B	2023	2SA726	2023
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2SA565F	2023	2SA572Y	2023	2SA610	2023	2SA642J	2023	2SA673D	2023	2SA704F	2023	2SA733	2023
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2SA565K	2023	2SA603	2023	2SA628(EF)	2023	2SA642OR	2023	2SA673H	2023	2SA704K	2023	2SA733(Q)	2023
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2SA565OR	2023	2SA603C	2023	2SA628-O	2023	2SA642W	2023	2SA673L	2023	2SA704OR	2023	2SA733A	2023
2SA565R	2023	2SA603D	2023	2SA628-OR	2023	2SA642X	2023	2SA673M	2023	2SA704R	2023	2SA733AK	2023
2SA565X	2023	2SA603E	2023	2SA628A	2023	2SA642Y	2023	2SA673N	2023	2SA704S	2023	2SA733AP	2023
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2SA568OR	2023	2SA608H	2023	2SA629J	2023	2SA666H	2023	2SA678(D)	2023	2SA719-W	2023	2SA768I	2027
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2SA570G	2023	2SA609D	2023	2SA641R	2023	2SA672OR	2023	2SA700B	2027	2SA720O	2023	2SA770J	2023
2SA570GN	2023	2SA609E	2023	2SA641Y	2023	2SA673A(C)	2023	2SA700Y	2027	2SA720P	2023	2SA770K	2023
2SA570H</													

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25A828A	2023	25A937M	2023	25A1016G	2023	25A1305	2027	25B611A	2043	25B7265	2023	25C16R	1617
25A836	2023	25A937M(Q)	2023	25A1016K	2023	25A1305Y	2027	25B611A	2043	25B7267	2023	25C16K	1617
25A836(D)	2023	25A937M(R)	2023	25A1021	2023	25A1318	2023	25B640	2023	25B744	2023	25C16Y	1617
25A836(E)	2023	25A937M(S)	2023	25A1023P	2023	25A1318S	2023	25B641	2023	25B744A	2023	25C17	1617
25A836C	2023	25A937MORS	2023	25A1023Q	2023	25A4950	2023	25B641(P)	2023	25B744Q	2023	25C17A	1617
25A836D	2023	25A937MR	2023	25A1025D	2023	25A4950R	2023	25B641(Q)	2023	25B744R	2023	25C17B	1617
25A836E	2023	25A937MRS	2023	25A1025E	2023	25A5610	2023	25B641(R)	2023	25B744S	2023	25C17C	1617
25A836F	2023	25A937MS	2023	25A1026	2023	25A-NJ-101	2023	25B641(S)	2023	25B745	2023	25C17D	1617
25A838	2023	25A937Q	2023	25A1027	2023	25ANJ101	2023	25B641(T)	2023	25B745A	2023	25C17E	1617
25A838B	2023	25A937R	2023	25A1027(R)	2023	25B434	2027	25B641-Q	2023	25B745AS	2023	25C17F	1617
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25A841	2023	25A941	2023	25A1028	2043	25B434-O	2027	25B641-R	2023	25B745T	2023	25C17H	1617
25A841-BL	2023	25A942	2023	25A1029	2023	25B434-ORG	2027	25B641-S	2023	25B774	2023	25C17H	1617
25A841-GR	2023	25A950	2023	25A1029B	2023	25B434-R	2027	25B641P	2023	25B774(Q)	2023	25C17J	1617
25A842	2023	25A950(O)	2023	25A1029C	2023	25B434-RED	2027	25B641Q	2023	25B774(R)	2023	25C17K	1617
25A842-BL	2023	25A950(Y)	2023	25A1029D	2023	25B434-Y	2023	25B641QR	2023	25B774(S)	2023	25C17L	1617
25A842-GR	2023	25A950-O	2023	25A1030B	2023	25B434-YEL	2027	25B641QRS	2023	25B774Q	2023	25C17M	1617
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25A844(D)	2023	25A950-Y	2023	25A1031D	2023	25B434G-R	2027	25B641RS	2023	25B774S	2023	25C17R	1617
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25A850	2023	25A952LK	2023	25A1048GR	2023	25B435-RED	2027	25B642-O	2023	25B894(R)	2023	25C18E	1617
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25A854G	2023	25A953(K)	2023	25A1081D	2023	25B435G-Y	2027	25B642-R	2023	25B-S851	1171	25C18J	1617
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25A933SR	2023	25A1015D	2023	25A1246(T)	2023	25B							

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
25C21M	2041	25C27M	1617	25C32J	2030	25C40GN	2016	25C51E	2030	25C56F	2016	25C64F	2030
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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25C137K	1617	25C150B	2030	25C156K	2016	25C166J	1617	25C174GN	1617	25C190A	2030	25C195A	1617
25C137L	1617	25C150C	2030	25C156L	2016	25C166K	1617	25C174H	1617	25C190B	2030	25C195B	1617
25C137M	1617	25C150D	2030	25C156M	2016	25C166L	1617	25C174J	1617	25C190C	2030	25C195C	1617
25C137OR	1617	25C150E	2030	25C156OR	2016	25C166M	1617	25C174K	1617	25C190D	2030	25C195D	1617
25C137R	1617	25C150F	2030	25C156OR	2016	25C166OR	1617	25C174L	1617	25C190E	2030	25C195E	1617
25C137X	1617	25C150G	2030	25C156X	2016	25C166R	1617	25C174M	1617	25C190F	2030	25C195F	1617
25C137Y	1617	25C150GN	2030	25C156Y	2016	25C166X	1617	25C174OR	1617	25C190GN	2030	25C195G	1617
25C138	1617	25C150H	2030	25C157	1617	25C166Y	1617	25C174Q	1617	25C190H	2030	25C195GN	1617
25C138A	1617	25C150J	2030	25C157A	1617	25C167	1617	25C174R	1617	25C190J	2030	25C195H	1617
25C138B	1617	25C150K	2030	25C157B	1617	25C167A	1617	25C174S	1617	25C190K	2030	25C195J	1617
25C138C	1617	25C150L	2030	25C157C	1617	25C167B	1617	25C174X	1617	25C190L	2030	25C195K	1617
25C138D	1617	25C150M	2030	25C157D	1617	25C167C	1617	25C174Y	1617	25C190M	2030	25C195L	1617
25C138E	1617	25C150OR	2030	25C157E	1617	25C167D	1617	25C186	2016	25C190OR	2030	25C195M	1617
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25C138G	1617	25C150T	2030	25C157G	1617	25C167F	1617	25C186B	2016	25C190X	2030	25C195R	1617
25C138GN	1617	25C150X	2030	25C157GN	1617	25C167G	1617	25C186C	2016	25C190Y	2030	25C195X	1617
25C138H	1617	25C150Y	2030	25C157J	1617	25C167GN	1617	25C186D	2016	25C191	1617	25C195Y	1617
25C138J	1617	25C151	1617	25C157K	1617	25C167H	1617	25C186E	2016	25C191A	1617	25C196	1617
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25C138R	1617	25C151D	1617	25C157R	1617	25C167OR	1617	25C186H	2016	25C191E	1617	25C196D	1617
25C138S	1617	25C151E	1617	25C157Y	1617	25C167X	1617	25C186J	2016	25C191F	1617	25C196E	1617
25C138X	1617	25C151G	1617	25C158	1617	25C167Y	1617	25C186K	2016	25C191G	1617	25C196F	1617
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25C139H	1617	25C151OR	1617	25C158J	1617	25C170G	1617	25C187A	2016	25C191Y	1617	25C196X	1617
25C139J	1617	25C151R	1617	25C158K	1617	25C170GN	1617	25C187B	2016	25C192	1617	25C196Y	1617
25C139K	1617	25C151X	1617										

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25C197G	1617	25C204B	1617	25C210K	2030	25C218R	2030	25C226OR	2030	25C237K	1617	25C242H	2041
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25C197H	1617	25C204D	1617	25C211	2030	25C218Y	2030	25C226K	2030	25C237M	1617	25C242K	2041
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25C197K	1617	25C204F	1617	25C211B	2030	25C220	2030	25C227	2030	25C237R	1617	25C242M	2041
25C197L	1617	25C204G	1617	25C211C	2030	25C220A	2030	25C227A	2030	25C237X	1617	25C242OR	2041
25C197M	1617	25C204GN	1617	25C211D	2030	25C220B	2030	25C227B	2030	25C237Y	1617	25C242R	2041
25C197OR	1617	25C204H	1617	25C211F	2030	25C220C	2030	25C227C	2030	25C238	1617	25C242X	2041
25C197R	1617	25C204J	1617	25C211G	2030	25C220D	2030	25C227D	2030	25C238A	1617	25C242Y	2041
25C197X	1617	25C204K	1617	25C211GN	2030	25C220E	2030	25C227E	2030	25C238B	1617	25C243	2041
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25C198A	2041	25C204OR	1617	25C211K	2030	25C220GN	2030	25C227GN	2030	25C238E	1617	25C247B	2030
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25C199A	1617	25C204Y	1617	25C211OR	2030	25C220L	2030	25C227K	2030	25C238GN	1617	25C247E	2030
25C199B	1617	25C205	1617	25C211R	2030	25C220M	2030	25C227L	2030	25C238H	1617	25C247F	2030
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25C199GN	1617	25C205G	1617	25C212C	2030	25C221A	2030	25C228	2030	25C238R	1617	25C247M	2030
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25C199K	1617	25C205J	1617	25C212F	2030	25C221D	2030	25C228C	2030	25C239	1617	25C247X	2030
25C199L	1617	25C205K	1617	25C212G	2030	25C221E	2030	25C228D	2030	25C239A	1617	25C247Y	2030
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25C200B	1617	25C206-OR	2016	25C212R	2030	25C221M	2030	25C228L	2030	25C239H	1617	25C248G	1617
25C200C	1617	25C206A	2016	25C212X	2030	25C221OR	2030	25C228M	2030	25C239J	1617	25C248J	1617
25C200D	1617	25C206B	2016	25C212Y	2030	25C221R	2030	25C228OR	2030	25C239K	1617	25C248K	1617
25C200E	1617	25C206C	2016	25C216	2030	25C221X	2030	25C228R	2030	25C239L	1617	25C248L	1617
25C200F	1617	25C206D	2016	25C216A	2030	25C221Y	2030	25C228X	2030	25C239M	1617	25C248M	1617
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25C200H	1617	25C206GN	2016	25C216D	2030	25C222B	2030	25C234A	2030	25C239X	1617	25C248X	1617
25C200J	1617	25C206H	2016	25C216E	2030	25C222C	2030	25C234B	2030	25C239Y	1617	25C248Y	1617
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25C200M	1617	25C206L	2016	25C216GN	2030	25C222F	2030	25C234E	2030	25C240B	2041	25C249B	2030
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25C200Y	1617	25C206RED	2016	25C216L	2030	25C222J	2030	25C234H	2030	25C240F	2041	25C249F	2030
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25C201C	1617	25C208	2016	25C216X	2030	25C222R	2030	25C234M	2030	25C240J	2041	25C249J	2030
25C201D	1617	25C208A	2016	25C216Y	2030	25C222X	2030	25C234OR	2030	25C240K	2041	25C249K	2030
25C201E	1617	25C208B	2016	25C217	2030	25C222Y	2030	25C234R	2030	25C240L	2041	25C249L	2030
25C201F	1617	25C208C	2016	25C217A	2030	25C225	2030	25C234X	2030	25C240M	2041	25C249M	2030
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25C201H	1617	25C208F	2016	25C217D	2030	25C225C	2030	25C236A	2030	25C240X	2041	25C249X	2030
25C201J	1617	25C208G	2016	25C217E	2030	25C225D	2030	25C236B	2030	25C240Y	2041	25C249Y	2030
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25C201R	1617	25C208K	2016	25C217H	2030	25C225GN	2030	25C236F	2030	25C241C	2041	25C250C	1617
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25C201Y	1617	25C208M	2016	25C217K	2030	25C225J	2030	25C236GN	2030	25C241E	2041	25C250E	1617
25C202	1617	25C208OR	2016	25C217L	2030	25C225L	2030	25C236H	2030	25C241F	2041	25C250F	1617
25C202A	1617	25C208R	2016	25C217M	2030	25C225M	2030	25C236J	2030	25C241G	2041	25C250G	1617
25C202B	1617	25C208X	2016	25C217OR	2030	25C225OR	2030	25C236K	2030	25C241GN	2041	25C250GN	1617
25C202C	1617	25C208Y	2016	25C217R	2030	25C225R	2030	25C236L	2030	25C241H	2041	25C250H	1617
25C202D	1617	25C210	2030	25C217X	2030	25C225X	2030	25C236M	2030	25C241K	2041	25C250J	1617
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25C202GN	1617	25C210D	2030	25C218B	2030	25C226B	2030	25C236Y	2030	25C241R	2041	25C250OR	1617
25C202H	1617	25C210E	2030	25C218C	2030	25C226C	2030	25C237	1617	25C241X	2041	25C250R	1617
25C202J	1617	25C210F	2030	25C218D	2030	25C226D	2030	25C237A	1617	25C241Y	2041	25C250X	1617
25C202K	1617	25C210G	2030	25C218E	2030	25C226E	2030	25C237B	1617	25C242	2041	25C250Y	1617
25C202L	1617	25C210GN	2030	25C218F	2030	25C226F	2030	25C237C	1617	25C242A	2041	25C254	2030
25C202M	1617	25C210H	2030										

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25C263E	2016	25C271Y	2016	25C286G	2016	25C302B	1617	25C309X	2030	25C317K	1617	25C333	1617
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25C263H	2016	25C272C	2016	25C286K	2016	25C302F	1617	25C310B	2030	25C317R	1617	25C337	1617
25C263J	2016	25C272D	2016	25C286L	2016	25C302G	1617	25C310C	2030	25C317X	1617	25C338	1617
25C263K	2016	25C272E	2016	25C286M	2016	25C302GN	1617	25C310D	2030	25C317Y	1617	25C339	2009
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25C263M	2016	25C272G	2016	25C286R	2016	25C302J	1617	25C310F	2030	25C318A	1617	25C343	1617
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25C264	2009	25C272L	2016	25C289B	2016	25C302R	1617	25C310K	2030	25C318E	1617	25C347	1617
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25C267G	1617	25C281(B)	2009	25C289K	2016	25C306F	2030	25C313-OR	2016	25C318OR	1617	25C348GN	1617
25C267GN	1617	25C281-OR	2009	25C289L	2016	25C306G	2030	25C313A	2016	25C318R	1617	25C348H	1617
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25C267J	1617	25C281B	2009	25C289OR	2016	25C306H	2030	25C313C	2016	25C318Y	1617	25C348K	1617
25C267K	1617	25C281BL	2009	25C289R	2016	25C306J	2030	25C313D	2016	25C321	1617	25C348L	1617
25C267L	1617	25C281C	2009	25C289X	2016	25C306K	2030	25C313E	2016	25C321A	1617	25C348M	1617
25C267M	1617	25C281C-EP	2009	25C289Y	2016	25C306L	2030	25C313F	2016	25C321B	1617	25C348OR	1617
25C267OR	1617	25C281D	2009	25C291	2030	25C306M	2030	25C313G	2016	25C321C	1617	25C348X	1617
25C267R	1617	25C281E	2009	25C291A	2030	25C306OR	2030	25C313GN	2016	25C321D	1617	25C348Y	1617
25C267X	1617	25C281EP	2009	25C291B	2030	25C306R	2030	25C313H	2016	25C321E	1617	25C349	2016
25C267Y	1617	25C281F	2009	25C291C	2030	25C306X	2030	25C313J	2016	25C321F	1617	25C349R	2016
25C268	2030	25C281G	2009	25C291D	2030	25C306Y	2030	25C313K	2016	25C321G	1617	25C350	1617
25C268-OR	2030	25C281GN	2009	25C291E	2030	25C307	2030	25C313L	2016	25C321GN	1617	25C350A	1617
25C268A	2030	25C281H	2009	25C291F	2030	25C307-OR	2030	25C313M	2016	25C321H	1617	25C350B	1617
25C268B	2030	25C281J	2009	25C291G	2030	25C307A	2030	25C313OR	2016	25C321HA	1617	25C350C	1617
25C268C	2030	25C281K	2009	25C291GN	2030	25C307B	2030	25C313R	2016	25C321HB	1617	25C350D	1617
25C268D	2030	25C281L	2009	25C291H	2030	25C307C	2030	25C313X	2016	25C321HC	1617	25C350E	1617
25C268E	2030	25C281M	2009	25C291J	2030	25C307D	2030	25C313Y	2016	25C321J	1617	25C350F	1617
25C268F	2030	25C281OR	2009	25C291K	2030	25C307E	2030	25C315	1617	25C321K	1617	25C350G	1617
25C268G	2030	25C281R	2009	25C291M	2030	25C307F	2030	25C315A	1617	25C321L	1617	25C350GN	1617
25C268GN	2030	25C281X	2009	25C291OR	2030	25C307G	2030	25C315B	1617	25C321M	1617	25C350H	1617
25C268H	2030	25C281Y	2009	25C291R	2030	25C307GN	2030	25C315C	1617	25C321OR	1617	25C350J	1617
25C268J	2030	25C282	1617	25C291X	2030	25C307H	2030	25C315D	1617	25C321R	1617	25C350K	1617
25C268K	2030	25C282A	1617	25C291Y	2030	25C307J	2030	25C315E	1617	25C321X	1617	25C350L	1617
25C268L	2030	25C282B	1617	25C295	2009	25C307K	2030	25C315F	1617	25C321Y	1617	25C350M	1617
25C268M	2030	25C282C	1617	25C296	2020	25C307L	2030	25C315G	1617	25C322	2009	25C350OR	1617
25C268OR	2030	25C282D	1617	25C297	2017	25C307M	2030	25C315GN	1617	25C323	1617	25C350R	1617
25C268R	2030	25C282E	1617	25C300	1617	25C307OR	2030	25C315H	1617	25C323A	1617	25C350X	1617
25C268X	2030	25C282F	1617	25C300A	1617	25C307R	2030	25C315J	1617	25C323B	1617	25C350Y	1617
25C268Y	2030	25C282G	1617	25C300B	1617	25C307X	2030	25C315K	1617	25C323C	1617	25C351	2016
25C269	2016	25C282GN	1617	25C300C	1617	25C307Y	2030	25C315L	1617	25C323D	1617	25C351(FA)	2016
25C269A	2016	25C282H	1617	25C300D	1617	25C308	2030	25C315M	1617	25C323E	1617	25C351A	2016
25C269B	2016	25C282J	1617	25C300E	1617	25C308A	2030	25C315OR	1617	25C323F	1617	25C351B	2016
25C269C	2016	25C282K	1617	25C300F	1617	25C308B	2030	25C315R	1617	25C323G	1617	25C351C	2016
25C269D	2016	25C282L	1617	25C300G	1617	25C308C	2030	25C315X	1617	25C323GN	1617	25C351D	2016
25C269E	2016	25C282M	1617	25C300GN	1617	25C308D	2030	25C315Y	1617	25C323H	1617	25C351E	2016
25C269F	2016	25C282OR	1617	25C300H	1617	25C308E	2030	25C316	1617	25C323J	1617	25C351F	2016
25C269G	2016	25C282R	1617	25C300J	1617	25C308F	2030	25C316A	1617	25C323K	1617	25C351FA1	2016
25C269GN	2016	25C282X	1617	25C300K	1617	25C308G	2030	25C316B	1617	25C323L	1617	25C351G	2016
25C269H	2016	25C282Y	1617	25C300L	1617	25C308GN	2030	25C316C	1617	25C323M	1617	25C351GN	2016
25C269J	2016	25C284	1617	25C300M	1617	25C308H	2030	25C316D	1617	25C323OR	1617	25C351H	2016
25C269K	2016	25C284A	1617	25C300OR	1617	25C308J	2030	25C316E	1617	25C323R	1617	25C351J	2016
25C269L	2016	25C284B	1617	25C300R	1617	25C308K	2030	25C316F	1617	25C323X	1617	25C351K	2016
25C269M	2016	25C284C	1617	25C300X	1617	25C308L	2030	25C316G	1617	25C323Y	1617	25C351L	2016
25C269OR	2016	25C284D	1617	25C300Y	1617	25C308M	2030	25C316GN	1617	25C324	1617	25C351M	2016
25C269R	2016	25C284E	1617	25C301	1617	25C308OR	2030	25C316H	1617	25C324(H)	1617	25C351OR	2016
25C269X	2016	25C284F	1617	25C301A	1617	25C308R	2030	25C316J	1617	25C324A	1617	25C351R	2016
25C269Y	2016	25C284G	1617	25C301B	1617	25C308X	2030	25C316K	1617	25C324B	1617	25C351X	2016
25C271	2016	25C284GN	1617	25C301C	1617	25C308Y	2030	25C316L	1617	25C324C	1617	25C351Y	2016
25C271A	2016	25C284H	1617	25C301D	1617	25C309	2030	25C316M	1617	25C324D	1617	25C352	2009
25C271B	2016	25C284J	1617	25C301E	1617	25C309A	2030	25C316OR	1617	25C324E	1617	25C352-OR	2009
25C271C	2016	25C284K	1617	25C301F	1617	25C309B	2030	25C316R	1617	25C324F	1617	25C352A	2009
25C271D	2016	25C284L	1617	25C301G	1617	25C309C	2030	25C316X	1617	25C324G	1617	25C352AC	2009
25C271E	2016	25C284M	1617	25C301GN	1617	25C309D	2030	25C316Y	1617	25C324GN	1617	25C352B	2009
25C271F	2016	25C284OR	1617	25C301H	1617	25C309E	2030	25C317	1617	25C324H	1617	25C352C	2009
25C271G	2016	25C284R	1617	25C301J	1617	25C309F	2030	25C317A	1617	25C324HA	1617	25C352D	2009
25C271GN	2016	25C284X	1617	25C301K	1617	25C309G	2030	25C317B	1617	25C324J	1617	25C352E	2009
25C271H	2016	25C284Y	1617	25C301L	1617	25C309GN	2030	25C317C	1617	25C324K	1617	25C352F	2009
25C271J	2016	25C286	2016	2									

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25C352OR	2009	25C362H	2009	25C368GN	2016	25C371H	2009	25C374C	2016	25C378-R	2009	25C380GN	2009
25C352R	2009	25C362J	2009	25C368H	2016	25C371J	2009	25C374D	2016	25C378-RED	2009	25C380H	2009
25C352X	2009	25C362K	2009	25C368J	2016	25C371K	2009	25C374E	2016	25C378-Y	2009	25C380J	2009
25C352Y	2009	25C362L	2009	25C368K	2016	25C371L	2009	25C374F	2016	25C378-YEL	2009	25C380K	2009
25C353	2030	25C362M	2009	25C368L	2016	25C371M	2009	25C374G	2016	25C378A	2009	25C380L	2009
25C353A	2030	25C362OR	2009	25C368M	2016	25C371O	2009	25C374GN	2016	25C378B	2009	25C380M	2009
25C353AC	2030	25C362R	2009	25C368OR	2016	25C371OR	2009	25C374H	2016	25C378C	2009	25C380O	2009
25C353B	2030	25C362X	2009	25C368R	2016	25C371R	2009	25C374J	2016	25C378D	2009	25C380OR	2009
25C353C	2030	25C362Y	2009	25C368V	2016	25C371R-1	2009	25C374K	2016	25C378E	2009	25C380R	2009
25C353D	2030	25C363	1617	25C368X	2016	25C371RED-G	2009	25C374L	2016	25C378F	2009	25C380RED	2009
25C353E	2030	25C363-OR	1617	25C368Y	2016	25C371T	2009	25C374M	2016	25C378G	2009	25C380T	2009
25C353F	2030	25C363A	1617	25C369	2016	25C371X	2009	25C374OR	2016	25C378GN	2009	25C380V	2009
25C353G	2030	25C363B	1617	25C369-BL	2016	25C371Y	2009	25C374R	2016	25C378H	2009	25C380X	2009
25C353GN	2030	25C363C	1617	25C369-BLU-G	2016	25C372	2009	25C374V	2016	25C378J	2009	25C380Y	2009
25C353H	2030	25C363D	1617	25C369-GR	2016	25C372(H)	2009	25C374X	2016	25C378K	2009	25C380YEL	2009
25C353J	2030	25C363E	1617	25C369-GRN-G	2016	25C372(O)	2009	25C374Y	2016	25C378L	2009	25C381	2016
25C353K	2030	25C363F	1617	25C369-V	2016	25C372(Y)	2009	25C375	2016	25C378M	2009	25C381(BN)	2016
25C353L	2030	25C363G	1617	25C369A	2016	25C372-0	2009	25C375-0	2016	25C378O	2009	25C381-0	2016
25C353M	2030	25C363GN	1617	25C369B	2016	25C372-1	2009	25C375-0	2016	25C378OR	2009	25C381-BN	2016
25C353OR	2030	25C363H	1617	25C369BL	2016	25C372-2	2009	25C375-Y	2016	25C378R	2009	25C381-BRN	2016
25C353R	2030	25C363J	1617	25C369C	2016	25C372-0	2009	25C375A	2016	25C378X	2009	25C381-O	2016
25C353X	2030	25C363K	1617	25C369D	2016	25C372-OR	2009	25C375B	2016	25C378Y	2009	25C381-OR	2016
25C353Y	2030	25C363L	1617	25C369E	2016	25C372-ORG	2009	25C375C	2016	25C379	2009	25C381-ORG	2016
25C356	2009	25C363M	1617	25C369F	2016	25C372-ORG-G	2009	25C375D	2016	25C379A	2009	25C381-R	2016
25C356A	2009	25C363OR	1617	25C369G	2016	25C372-Y	2009	25C375E	2016	25C379B	2009	25C381-RED	2016
25C356B	2009	25C363R	1617	25C369G/BL	2016	25C372-YEL-G	2009	25C375F	2016	25C379C	2009	25C381A	2016
25C356C	2009	25C363X	1617	25C369G/GR	2016	25C372A	2009	25C375G	2016	25C379D	2009	25C381B	2016
25C356D	2009	25C363Y	1617	25C369G-BL	2016	25C372AR	2009	25C375GN	2016	25C379E	2009	25C381BN	2016
25C356E	2009	25C366	2009	25C369GBL	2016	25C372B	2009	25C375H	2016	25C379F	2009	25C381BN-1	2016
25C356F	2009	25C366-0	2009	25C369G-GR	2016	25C372C	2009	25C375J	2016	25C379G	2009	25C381C	2016
25C356G	2009	25C366-ORG-G	2009	25C369GGR	2016	25C372D	2009	25C375K	2016	25C379GN	2009	25C381D	2016
25C356GN	2009	25C366-RED-G	2009	25C369GN	2016	25C372E	2009	25C375L	2016	25C379H	2009	25C381E	2016
25C356H	2009	25C366A	2009	25C369GR	2016	25C372F	2009	25C375M	2016	25C379J	2009	25C381F	2016
25C356J	2009	25C366B	2009	25C369G-V	2016	25C372G	2009	25C375OR	2016	25C379K	2009	25C381G	2016
25C356K	2009	25C366C	2009	25C369H	2016	25C372GN	2009	25C375R	2016	25C379L	2009	25C381GN	2016
25C356L	2009	25C366D	2009	25C369J	2016	25C372G-O	2009	25C375X	2016	25C379M	2009	25C381H	2016
25C356M	2009	25C366E	2009	25C369K	2016	25C372G-Y	2009	25C376	2009	25C379OR	2009	25C381J	2016
25C356OR	2009	25C366F	2009	25C369L	2016	25C372J	2009	25C376A	2009	25C379R	2009	25C381K	2016
25C356R	2009	25C366G	2009	25C369M	2016	25C372K	2009	25C376B	2009	25C379X	2009	25C381L	2016
25C356X	2009	25C366GN	2009	25C369OR	2016	25C372L	2009	25C376C	2009	25C379Y	2009	25C381M	2016
25C356Y	2009	25C366G-O	2009	25C369R	2016	25C372M	2009	25C376D	2009	25C380	2009	25C381O	2016
25C360	1617	25C366G-R	2009	25C369V	2016	25C372O	2009	25C376E	2009	25C380(O)	2009	25C381OR	2016
25C360-OR	1617	25C366G-Y	2009	25C369X	2016	25C372OR	2009	25C376F	2009	25C380(R)	2009	25C381R	2016
25C360A	1617	25C366H	2009	25C369Y	2016	25C372R	2009	25C376G	2009	25C380(Y)	2009	25C381RED	2016
25C360B	1617	25C366J	2009	25C370	2009	25C372X	2009	25C376GN	2009	25C380-0	2009	25C381RL	2016
25C360C	1617	25C366K	2009	25C370-0	2009	25C372Y	2009	25C376H	2009	25C380-0/4454C	2009	25C381X	2016
25C360D	1617	25C366L	2009	25C370-G	2009	25C372Y1	2009	25C376J	2009	25C380-BRN	2009	25C381Y	2016
25C360E	1617	25C366M	2009	25C370-O	2009	25C372YEL	2009	25C376K	2009	25C380-0	2009	25C382	2009
25C360F	1617	25C366OR	2009	25C370-T	2009	25C372YEL-G	2009	25C376L	2009	25C380-0/4454C	2009	25C382(BL)	2009
25C360G	1617	25C366X	2009	25C370A	2009	25C372Z	2009	25C376M	2009	25C380-OR	2009	25C382(BN)	2009
25C360GN	1617	25C367	2009	25C370B	2009	25C372Z	2009	25C376OR	2009	25C380-ORG	2009	25C382(R)	2009
25C360H	1617	25C367-0	2009	25C370C	2009	25C373	2009	25C376R	2009	25C380-R	2009	25C382-BK(1)	2009
25C360J	1617	25C367-ORG-G	2009	25C370D	2009	25C373-0	2009	25C376X	2009	25C380-RED	2009	25C382-BK(2)	2009
25C360K	1617	25C367-R	2009	25C370E	2009	25C373-14	2009	25C376Y	2009	25C380-Y	2009	25C382-G	2009
25C360L	1617	25C367-RED-G	2009	25C370F	2009	25C373-G	2009	25C377	2009	25C380-YEL	2009	25C382-GR	2009
25C360M	1617	25C367-Y	2009	25C370G	2009	25C373-O	2009	25C377-0	2009	25C380A	2009	25C382-GY	2009
25C360OR	1617	25C367-YEL-G	2009	25C370GN	2009	25C373-OR	2009	25C377-BN	2009	25C380A(D)	2009	25C382-OR	2009
25C360R	1617	25C367A	2009	25C370H	2009	25C373A	2009	25C377-BRN	2009	25C380A(O)	2009	25C382-R	2009
25C360X	1617	25C367B	2009	25C370I	2009	25C373AL	2009	25C377-0	2009	25C380A(R)	2009	25C382-V	2009
25C360Y	1617	25C367C	2009	25C370J	2009	25C373J	2009	25C377-OR	2009	25C380A(Y)	2009	25C382A	2009
25C361	2009	25C367D	2009	25C370K	2009	25C373K	2009	25C377-ORG	2009	25C380A+O	2009	25C382B	2009
25C361A	2009	25C367E	2009	25C370L	2009	25C373D	2009	25C377-R	2009	25C380A-0	2009	25C382BK	2009
25C361B	2009	25C367F	2009	25C370M	2009	25C373E	2009	25C377-RED	2009	25C380A-0	2009	25C382BK1	2009
25C361C	2009	25C367G	2009	25C370OR	2009	25C373F	2009	25C377A	2009	25C380A-O	2009	25C382BK2	2009
25C361D	2009	25C367GN	2009	25C370R	2009	25C373G	2009	25C377B	2009	25C380A-O	2009	25C382BL	2009
25C361E	2009	25C367G-O	2009	25C370X	2009	25C373GN	2009	25C377BN	2009	25C380A-O(TV)	2009	25C382BN	2009
25C361F	2009	25C367G-R	2009	25C370Y	2009	25C373GR	2009	25C377BRN	2009	25C380A-R	2009	25C382BR	2009
25C361G	2009	25C367G-Y	2009	25C371	2009	25C373H	2009	25C377C	2009	25C380AR	2009	25C382C	2009
25C361GN	2009	25C367H	2009	25C371(O)	2009	25C373J	2009	25C377D	2009	25C380ATV	2009	25C382D	2009
25C361H	2009	25C367J	2009	25C371(O)	2009	25C373K	2009	25C377E	2009	25C380A-Y	2009	25C382E	2009
25C361J	2009	25C367K	2009	25C371-0	2009	25C373L	2009	25C377F	2009	25C380AY	2009	25C382F	2009
25C361K	2009	25C367L	2009	25C371-O	2009	25C373M	2009	25C377G	2009	25C380B	2009	25C382G	2009
25C361L	2009	25C367M	2009	25C371-OR	2009	25C373OR	2009	25C377GN	2009	25C380B-Y	2009	25C382GN	2009
25C361M	2009	25C367OR	2009	25C371-ORG-G	2009	25C373R	2009	25C377H	2009	25C380BY	2009	25C382GR	2009
25C361OR	2009	25C367R	2009	25C371-R	2009	25C373W	2009	25C377J	2009	25C380C	2009	25C382GY	2009
25C361R	2009	25C367X	2009	25C371-RED-G	2009	25C373X	2009	25C377K	2009	25C380C-Y	2009	25C382H	2009
25C361X	2009	25C367Y	2009	25C371-T	2009	25C373Y	2009	25C377L	2009	25C380CY	2009	25C382J	2009
25C361Y	2009	25C368	2016	25C371A	2009	25C374	2016	25C377M	2009	25C380D	2009	25C382K	2009
25C362	2009	25C368-BL	2016	25C371B	2009	25C374(BL)	2016	25C377O	2009	25C380D-Y	2009	25C382L	2009
25C362A	2009	25C368-GR											

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25C382	2009	25C387A(FA-2)	2016	25C391Y	2009	25C398H	2009	25C402M	2009	25C423D	1617	25C455D	2009
25C383(T)	2009	25C387AG	2016	25C391Y	2009	25C398H	2009	25C402OR	2009	25C423E	1617	25C455E	2009
25C383-OH	2009	25C387B	2016	25C394	2009	25C398H	2009	25C402R	2009	25C423F	1617	25C455F	2009
25C383A	2009	25C387C	2016	25C394(O)	2009	25C398H	2009	25C402X	2009	25C423G	1617	25C455G	2009
25C383B	2009	25C387D	2016	25C394(O)	2009	25C398H	2009	25C402Y	2009	25C423H	1617	25C455H	2009
25C383C	2009	25C387E	2016	25C394-O	2009	25C398H	2009	25C403	2009	25C423H	1617	25C455H	2009
25C383D	2009	25C387F	2016	25C394-GR	2009	25C398J	2009	25C403(C)	2009	25C423J	1617	25C455J	2009
25C383E	2009	25C387FA3	2016	25C394-GRN	2009	25C398K	2009	25C403(SONY)	2009	25C423K	1617	25C455K	2009
25C383F	2009	25C387G	2016	25C394-O	2009	25C398L	2009	25C403-OR	2009	25C423L	1617	25C455L	2009
25C383G	2009	25C387GN	2016	25C394-OR	2009	25C398M	2009	25C403A	2009	25C423M	1617	25C455M	2009
25C383GN	2009	25C387H	2016	25C394-ORG	2009	25C398OR	2009	25C403A1	2009	25C423O	1617	25C455O	2009
25C383H	2009	25C387I	2016	25C394-L	2009	25C398OR	2009	25C403B	2009	25C423P	1617	25C455P	2009
25C383J	2009	25C387K	2016	25C394-RED	2009	25C398OR	2009	25C403C	2009	25C423Q	1617	25C455Q	2009
25C383K	2009	25C387L	2016	25C394-Y	2009	25C398OR	2009	25C403CG	2009	25C423R	1617	25C455R	2009
25C383L	2009	25C387M	2016	25C394-YEL	2009	25C398OR	2009	25C403D	2009	25C423S	1617	25C455S	2009
25C383M	2009	25C387OR	2016	25C394A	2009	25C398OR	2009	25C403E	2009	25C423T	1617	25C455T	2009
25C383OR	2009	25C387R	2016	25C394AP	2009	25C398OR	2009	25C403F	2009	25C423U	1617	25C455U	2009
25C383R	2009	25C387X	2016	25C394B	2009	25C398OR	2009	25C403G	2009	25C423V	1617	25C455V	2009
25C383T	2009	25C387Y	2016	25C394C	2009	25C398OR	2009	25C403GN	2009	25C423W	1617	25C455W	2009
25C383TM	2009	25C388	2009	25C394D	2009	25C398OR	2009	25C403H	2009	25C423X	1617	25C455X	2009
25C383W	2009	25C388-A	2009	25C394E	2009	25C398OR	2009	25C403J	2009	25C423Y	1617	25C455Y	2009
25C383X	2009	25C388-O	2009	25C394F	2009	25C398OR	2009	25C403K	2009	25C423Z	1617	25C455Z	2009
25C383Y	2009	25C388-OR	2009	25C394G	2009	25C398OR	2009	25C403L	2009	25C423AA	1617	25C455AA	2009
25C383Z	2016	25C388A	2009	25C394H	2009	25C398OR	2009	25C403M	2009	25C423AB	1617	25C455AB	2009
25C384(O)	2016	25C388A-TM	2009	25C394HGN	2009	25C398OR	2009	25C403N	2009	25C423AC	1617	25C455AC	2009
25C384(Y)	2016	25C388A-TM	2009	25C394HGRN	2009	25C398OR	2009	25C403OR	2009	25C423AD	1617	25C455AD	2009
25C384-O	2016	25C388A-TMFA	2009	25C394H	2009	25C398OR	2009	25C403R	2009	25C423AE	1617	25C455AE	2009
25C384A	2016	25C388B	2009	25C394I	2009	25C398OR	2009	25C403S	2009	25C423AF	1617	25C455AF	2009
25C384B	2016	25C388C	2009	25C394J	2009	25C398OR	2009	25C403T	2009	25C423AG	1617	25C455AG	2009
25C384C	2016	25C388D	2009	25C394K	2009	25C398OR	2009	25C403U	2009	25C423AH	1617	25C455AH	2009
25C384D	2016	25C388E	2009	25C394L	2009	25C398OR	2009	25C403V	2009	25C423AI	1617	25C455AI	2009
25C384E	2016	25C388F	2009	25C394M	2009	25C398OR	2009	25C403W	2009	25C423AJ	1617	25C455AJ	2009
25C384F	2016	25C388FA	2009	25C394N	2009	25C398OR	2009	25C403X	2009	25C423AK	1617	25C455AK	2009
25C384G	2016	25C388G	2009	25C394O	2009	25C398OR	2009	25C403Y	2009	25C423AL	1617	25C455AL	2009
25C384GN	2016	25C388H	2009	25C394RED	2009	25C398OR	2009	25C403Z	2009	25C423AM	1617	25C455AM	2009
25C384H	2016	25C388H	2009	25C394V	2009	25C398OR	2009	25C400-GR	1617	25C423AN	1617	25C455AN	2009
25C384J	2016	25C388J	2009	25C394X	2009	25C398OR	2009	25C400-O	1617	25C423AO	1617	25C455AO	2009
25C384K	2016	25C388K	2009	25C394Y	2009	25C398OR	2009	25C400-R	1617	25C423AP	1617	25C455AP	2009
25C384L	2016	25C388L	2009	25C394YEL	2009	25C398OR	2009	25C400-R	1617	25C423AQ	1617	25C455AQ	2009
25C384M	2016	25C388M	2009	25C395	1617	25C398OR	2009	25C400A	1617	25C423AR	1617	25C455AR	2009
25C384OM	2016	25C388OR	2009	25C395A	1617	25C398OR	2009	25C400A	1617	25C423AS	1617	25C455AS	2009
25C384R	2016	25C388R	2009	25C395A-O	1617	25C398OR	2009	25C400B	1617	25C423AT	1617	25C455AT	2009
25C384S	2016	25C388S	2009	25C395A-ORG	1617	25C398OR	2009	25C400C	1617	25C423AU	1617	25C455AU	2009
25C384T	2016	25C388T	2009	25C395A-RED	1617	25C398OR	2009	25C400D	1617	25C423AV	1617	25C455AV	2009
25C384U	2016	25C388U	2009	25C395A-Y	1617	25C398OR	2009	25C400E	1617	25C423AW	1617	25C455AW	2009
25C385	2016	25C389	2016	25C395A-YEL	1617	25C398OR	2009	25C400F	1617	25C423AX	1617	25C455AX	2009
25C385B	2016	25C389-O	2016	25C395A-YEL	1617	25C398OR	2009	25C400G	1617	25C423AY	1617	25C455AY	2009
25C385C	2016	25C389-OR	2016	25C395B	1617	25C398OR	2009	25C400GN	1617	25C423AZ	1617	25C455AZ	2009
25C385D	2016	25C389A	2016	25C395C	1617	25C398OR	2009	25C400H	1617	25C423BA	1617	25C455BA	2009
25C385E	2016	25C389AFP	2016	25C395D	1617	25C398OR	2009	25C400J	1617	25C423BB	1617	25C455BB	2009
25C385F	2016	25C389B	2016	25C395E	1617	25C398OR	2009	25C400K	1617	25C423BC	1617	25C455BC	2009
25C385G	2016	25C389BLB-O	2016	25C395F	1617	25C398OR	2009	25C400L	1617	25C423BD	1617	25C455BD	2009
25C385H	2016	25C389C	2016	25C395G	1617	25C398OR	2009	25C400M	1617	25C423BE	1617	25C455BE	2009
25C385I	2016	25C389D	2016	25C395H	1617	25C398OR	2009	25C400N	1617	25C423BF	1617	25C455BF	2009
25C385J	2016	25C389E	2016	25C395I	1617	25C398OR	2009	25C400O	1617	25C423BG	1617	25C455BG	2009
25C385K	2016	25C389F	2016	25C395J	1617	25C398OR	2009	25C400P	1617	25C423BH	1617	25C455BH	2009
25C385L	2016	25C389G	2016	25C395K	1617	25C398OR	2009	25C400Q	1617	25C423BI	1617	25C455BI	2009
25C385M	2016	25C389GN	2016	25C395L	1617	25C398OR	2009	25C400R	1617	25C423BJ	1617	25C455BJ	2009
25C385OR	2016	25C389H	2016	25C395M	1617	25C398OR	2009	25C400S	1617	25C423BK	1617	25C455BK	2009
25C385R	2016	25C389I	2016	25C395OR	1617	25C398OR	2009	25C400T	1617	25C423BL	1617	25C455BL	2009
25C385S	2016	25C389K	2016	25C395OR	1617	25C398OR	2009	25C400U	1617	25C423BM	1617	25C455BM	2009
25C385T	2016	25C389L	2016	25C395P	1617	25C398OR	2009	25C400V	1617	25C423BN	1617	25C455BN	2009
25C385U	2016	25C389LP	2016	25C395Y	1617	25C398OR	2009	25C400W	1617	25C423BO	1617	25C455BO	2009
25C385V	2016	25C389M	2016	25C395Y	1617	25C398OR	2009	25C400X	1617	25C423BP	1617	25C455BP	2009
25C385W	2016	25C389N	2016	25C395Z	1617	25C398OR	2009	25C400Y	1617	25C423BQ	1617	25C455BQ	2009
25C385X	2016	25C389OR	2016	25C397A	2009	25C398OR	2009	25C400Z	1617	25C423BR	1617	25C455BR	2009
25C385Y	2016	25C389P	2016	25C397B	2009	25C398OR	2009	25C400A	1617	25C423BS	1617	25C455BS	2009
25C385Z	2016	25C389Q	2016	25C397C	2009	25C398OR	2009	25C400B	1617	25C423BT	1617	25C455BT	2009
25C386	2016	25C389R	2016	25C397D	2009	25C398OR	2009	25C400C	1617	25C423BU	1617	25C455BU	2009
25C386A	2016	25C389R	2016	25C397E	2009	25C398OR	2009	25C400D	1617	25C423BV	1617	25C455BV	2009
25C386B	2016	25C389R	2016	25C397F	2009	25C398OR	2009	25C400E	1617	25C423BW	1617	25C455BW	2009
25C386C	2016	25C389X	2016	25C397G	2009	25C398OR	2009	25C400F	1617	25C423BX	1617	25C455BX	2009
25C386D	2016	25C389Y	2016	25C397H	2009	25C398OR	2009	25C400G	1617	25C423BY	1617	25C455BY	2009
25C386E	2016	25C391	2009	25C397I	2009	25C398OR	2009	25C400H	1617	25C423BZ	1617	25C455BZ	2009
25C386F	2016	25C391A	2009	25C397J	2009	25C398OR	2009	25C400I	1617	25C423CA	1617	25C455CA	2009
25C386G	2016	25C391B	2009	25C397K	2009	25C398OR	2009	25C400J	1617	25C423CB	1617	25C455CB	2009
25C386GN	2016	25C391C	2009	25C397L	2009	25C398OR	2009	25C400K	1617	25C423CC	1617	25C455CC	2009
25C386M	2016	25C391D	2009	25C397M	2009	25C398OR	2009	25C400L	1617	25C423CD	1617	25C455CD	2009
25C386J	2016	25C391E	2009	25C397N	2009	25C398OR	2009	25C400M	1617	25C423CE	1617	25C455CE	2009
25C386K	2016	25C391F	2009	25C397O	2009	25C398OR	2009	25C400N	1617	25C423CF			

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25C459GN	2009	25C472GN	2058	25C494L	2041	25C499-R	2009	25C516A	2030	25C536EJ	2009	25C537G2	2009
25C459H	2009	25C472H	2058	25C494M	2041	25C499R	2009	25C516B	2030	25C536EN	2009	25C537GFL	2009
25C459J	2009	25C472J	2058	25C494OR	2041	25C499RED	2009	25C516C	2030	25C536EP	2009	25C537G1	2009
25C459K	2009	25C472K	2058	25C494R	2041	25C499R2	2009	25C516D	2030	25C536EW	2009	25C537H	2009
25C459L	2009	25C472L	2058	25C494X	2041	25C499X	2009	25C516E	2030	25C536ET	2009	25C537HT	2009
25C459M	2009	25C472M	2058	25C494Y	2041	25C499Y	2009	25C516F	2030	25C536EZ	2009	25C537WF	2009
25C459OR	2009	25C472OR	2058	25C497	2030	25C499YEL	2009	25C516G	2030	25C536F	2009	25C538	1617
25C459R	2009	25C472R	2058	25C497-0	2030	25C501	2030	25C516GN	2030	25C536F1	2009	25C538(A)	1617
25C459X	2009	25C472X	2058	25C497-O	2030	25C501-O	2030	25C516H	2030	25C536F2	2009	25C538(P)	1617
25C459Y	2009	25C472Y	2058	25C497-OR	2030	25C501-ORG	2030	25C516J	2030	25C536FC	2009	25C538(R)	1617
25C460	2009	25C473	1617	25C497-ORG	2030	25C501-R	2030	25C516K	2030	25C536FF	2009	25C538-Q	1617
25C460(A)	2009	25C473AC	1617	25C497-R	2030	25C501-RED	2030	25C516L	2030	25C536F5	2009	25C538A	1617
25C460(B)	2009	25C473B	2009	25C497-RED	2030	25C501-Y	2030	25C516M	2030	25C536FS6	2009	25C538A(Q)	1617
25C460(C)	2009	25C473C	2018	25C497-Y	2030	25C501-YEL	2030	25C516OR	2030	25C536F7	2009	25C538A-P	1617
25C460-5	2009	25C473A	2018	25C497-YEL	2030	25C501A	2030	25C516R	2030	25C536G	2009	25C538A-Q	1617
25C460-B	2009	25C473B	2016	25C497A	2030	25C501B	2030	25C516X	2030	25C536G-1	2009	25C538A-R	1617
25C460-C	2009	25C473C	2016	25C497B	2030	25C501C	2030	25C516Y	2030	25C536G1	2009	25C538AR	1617
25C460-OR	2009	25C473D	2016	25C497C	2030	25C501D	2030	25C527	2016	25C536G2	2009	25C538AS	1617
25C460A	2009	25C473E	2016	25C497D	2030	25C501E	2030	25C528	2016	25C536GF	2009	25C538BK	1617
25C460A2302-17	2009	25C473F	2016	25C497E	2030	25C501F	2030	25C529	2009	25C536GJ	2009	25C538P	1617
25C460B	2009	25C473G	2016	25C497F	2030	25C501G	2030	25C529A	2009	25C536GK	2009	25C538Q	1617
25C460BL	2009	25C473GN	2016	25C497G	2030	25C501GN	2030	25C529B	2009	25C536GL	2009	25C538R	1617
25C460C	2009	25C473H	2016	25C497GN	2030	25C501H	2030	25C529C	2009	25C536GM	2009	25C538S	1617
25C460D	2009	25C473J	2016	25C497H	2030	25C501J	2030	25C529D	2009	25C536GN	2009	25C538T	1617
25C460E	2009	25C473K	2016	25C497J	2030	25C501K	2030	25C529E	2009	25C536GP	2009	25C539	1617
25C460F	2009	25C473L	2016	25C497K	2030	25C501L	2030	25C529F	2009	25C536GT	2009	25C539(L)(K)	1617
25C460G	2009	25C473M	2016	25C497L	2030	25C501M	2030	25C529G	2009	25C536GV	2009	25C539(R)	1617
25C460GB	2009	25C473OR	2016	25C497M	2030	25C501O	2030	25C529GN	2009	25C536GY	2009	25C539R	1617
25C460GN	2009	25C473R	2016	25C497OR	2030	25C501OR	2030	25C529H	2009	25C536GZ	2009	25C539S	1617
25C460H	2009	25C473X	2016	25C497R	2030	25C501R	2030	25C529J	2009	25C536H	2009	25C539T	1617
25C460J	2009	25C473Y	2016	25C497RED	2030	25C501X	2030	25C529K	2009	25C536J	2009	25C541	2017
25C460K	2009	25C478	1617	25C497X	2030	25C501Y	2030	25C529L	2009	25C536K	2009	25C542	2017
25C460L	2009	25C478(D)	1617	25C497Y	2030	25C503	2030	25C529M	2009	25C536K(G)	2009	25C543	2017
25C460M	2009	25C478-4	1617	25C498	2030	25C503-GR	2030	25C529OR	2009	25C536KE	2009	25C543A	2017
25C460NR	2009	25C478-O	1617	25C498-B	2030	25C503-O	2030	25C529R	2009	25C536KF	2009	25C543B	2017
25C460R	2009	25C478A	1617	25C498-0	2030	25C503-Y	2030	25C529X	2009	25C536KNP	2009	25C543C	2020
25C460X	2009	25C478B	1617	25C498-OR	2030	25C503A	2030	25C529Y	2009	25C536KNPFT	2009	25C543D	2020
25C460Y	2009	25C478C	1617	25C498-ORG	2030	25C503B	2030	25C530	2009	25C536KNP-T	2009	25C543E	2020
25C461	2009	25C478D	1617	25C498-R	2030	25C503C	2030	25C531	2009	25C536L	2009	25C543F	2020
25C461(BF)	2009	25C478E	1617	25C498-RED	2030	25C503D	2030	25C532	2009	25C536M	2009	25C543G	2020
25C461-BF	2009	25C478F	1617	25C498-Y	2030	25C503E	2030	25C532O	2009	25C536NP	2009	25C543G(H)	2020
25C461-A	2009	25C478G	1617	25C498-YEL	2030	25C503F	2030	25C533	2009	25C536NP(E)	2009	25C543H	2020
25C461-B	2009	25C478GN	1617	25C498A	2030	25C503G	2030	25C534	2009	25C536NP(F)	2009	25C543J	2020
25C461A	2009	25C478H	1617	25C498B	2030	25C503GN	2030	25C535	2016	25C536NP(G)	2009	25C543K	2020
25C461AL	2009	25C478J	1617	25C498C	2030	25C503GR	2030	25C535(B)	2016	25C536NPE	2009	25C543L	2020
25C461B	2009	25C478K	1617	25C498D	2030	25C503H	2030	25C535(C)	2016	25C536NPF	2009	25C543M	2020
25C461BF	2009	25C478L	1617	25C498E	2030	25C503J	2030	25C535-OR	2016	25C536NPG	2009	25C543OR	2020
25C461BK	2009	25C478M	1617	25C498F	2030	25C503K	2030	25C535A	2016	25C536NP-T	2009	25C543R	2020
25C461BL	2009	25C478OR	1617	25C498G	2030	25C503L	2030	25C535ABC	2016	25C536OR	2009	25C543X	2020
25C461C	2009	25C478R	1617	25C498GN	2030	25C503M	2030	25C535AL	2016	25C536R	2009	25C543Y	2020
25C461E	2009	25C478A	1617	25C498H	2030	25C503OR	2030	25C535B	2016	25C536S	2009	25C544	2016
25C461FBP	2009	25C478Y	1617	25C498J	2030	25C503R	2030	25C535C	2016	25C536SP(F)	2009	25C544A	2016
25C461F	2009	25C479	2030	25C498K	2030	25C503X	2030	25C535D	2016	25C536SP(G)	2009	25C544B	2016
25C461L	2009	25C479A	2030	25C498L	2030	25C504	2030	25C535E	2016	25C536W	2009	25C544C	2016
25C461	2009	25C479B	2030	25C498M	2030	25C504-GR	2030	25C535F	2016	25C536X	2009	25C544D	2016
25C463	2016	25C479C	2030	25C498OR	2030	25C504-O	2030	25C535G	2016	25C536XL	2009	25C544E	2016
25C463A	2016	25C479D	2030	25C498R	2030	25C504-Y	2030	25C535GN	2016	25C536Y	2009	25C544D(VHF)	2016
25C463B	2016	25C479E	2030	25C498RED	2030	25C504A	2030	25C535H	2016	25C536YF	2009	25C544E	2016
25C463C	2016	25C479F	2030	25C498X	2030	25C504B	2030	25C535J	2016	25C537	2009	25C544F	2016
25C463D	2016	25C479G	2030	25C498Y	2030	25C504C	2030	25C535K	2016	25C537(F)	2009	25C544G	2016
25C463E	2016	25C479GN	2030	25C498YEL	2030	25C504D	2030	25C535L	2016	25C537(G)	2009	25C544H	2016
25C463F	2016	25C479H	2030	25C499	2009	25C504E	2030	25C535M	2016	25C537-C7	2009	25C544I	2016
25C463G	2016	25C479J	2030	25C499(A)	2009	25C504F	2030	25C535OR	2016	25C537-EV	2009	25C544J	2016
25C463GN	2016	25C479K	2030	25C499(R)	2009	25C504G	2030	25C535R	2016	25C537ALC	2009	25C544K	2016
25C463H	2016	25C479L	2030	25C499(Y)	2009	25C504GN	2030	25C535X	2016	25C537B	2009	25C544L	2016
25C463J	2016	25C479M	2030	25C499-OR	2009	25C504GR	2030	25C535Y	2016	25C537BK	2009	25C544M	2016
25C463K	2016	25C479OR	2030	25C499-R	2009	25C504H	2030	25C536	2009	25C537C	2009	25C544OR	2016
25C463L	2016	25C479R	2030	25C499-R(FA-1)	2009	25C504J	2030	25C536(C)	2009	25C537C7	2009	25C544R	2016
25C463M	2016	25C479X	2030	25C499-RED	2009	25C504K	2030	25C536(D)	2009	25C537D	2009	25C544X	2016
25C463OR	2016	25C479Y	2030	25C499-RY	2009	25C504L	2030	25C536(E)	2009	25C537D1	2009	25C544Y	2016
25C463R	2016	25C479Z	2041	25C499-Y	2009	25C504M	2030	25C536(F)	2009	25C537D2	2009	25C545	2016
25C463S	2016	25C49A	2041	25C499-Y(FA-1)	2009	25C504OR	2030	25C536(G)	2009	25C537E	2009	25C545A	2016
25C463T	2016	25C49B	2041	25C499-YEL	2009	25C504R	2030	25C536-D	2009	25C537EF	2009	25C545B	2016
25C467	2016	25C49-R	2041	25C499A	2009	25C504X	2030	25C536-E	2009	25C537EH	2009	25C545C	2016
25C468	1617	25C49L-7	2041	25C499B	2009	25C509	2009	25C536-F	2009	25C537EJ	2009	25C545D	2016
25C468A	1617	25C494A	2041	25C499C	2009	25C509(O)	2009	25C536-G	2009	25C537EV	2009	25C545E	2016
25C468B	1617	25C494B	2041	25C499D	2009	25C509(O)	2009	25C536-OR	2009	25C537F	2009	25C546	2016
25C468H	1617	25C494BL	2041	25C499E	2009	25C509(Y)	2009	25C536A	2009	25C537F1	2009	25C546K	2016
25C468LGR	1617	25C494C	2041	25C499F	2009	25C509-O	2009	25C536AF	2009	25C537F2	2009	25C548	2017
25C472	2058	25C494D	2041	25C499FA1	2009	25C509-O	2009	25C536AG	2009	25C5			

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25C658Y	2016	25C668CD	2016	25C683P	2016	25C693A	2016	25C708GN	2030	25C711J	2009	25C715D	2009
25C659	2016	25C668D	2016	25C683Q	2016	25C693B	2016	25C708H	2030	25C711L	2009	25C715E	2009
25C659A	2016	25C668DO	2016	25C683R	2016	25C693C	2016	25C708HA	2030	25C711M	2009	25C715F	2009
25C659B	2016	25C668DI	2016	25C683S	2016	25C693D	2016	25C708HB	2030	25C711OR	2009	25C715G	2009
25C659C	2016	25C668DE	2016	25C683V	2016	25C693E	2016	25C708L	2030	25C711R	2009	25C715H	2009
25C659D	2016	25C668DO	2016	25C683X	2016	25C693EB	2016	25C708M	2030	25C711X	2009	25C715I	2009
25C659E	2016	25C668DV	2016	25C683Y	2016	25C693ET	2016	25C708OR	2030	25C711Y	2009	25C715J	2009
25C659F	2016	25C668DX	2016	25C684	2016	25C693F	2016	25C708R	2030	25C712	2009	25C715K	2009
25C659G	2016	25C668DZ	2016	25C684-OR	2016	25C693FC	2016	25C708X	2030	25C712			

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25C716H	2009	25C733-ORG	2016	25C735B	2009	25C748J	2016	25C763F	2016	25C773D	2009	25C785V	2058
25C716J	2009	25C733-Y	2016	25C735C	2009	25C748K	2016	25C763G	2016	25C773E	2009	25C785X	2058
25C716K	2009	25C733-YEL	2016	25C735D	2009	25C748L	2016	25C763GN	2016	25C773F	2009	25C785Y	2058
25C716L	2009	25C733A	2016	25C735E	2009	25C748M	2016	25C763H	2016	25C773G	2009	25C785YEL	2058
25C716M	2009	25C733B	2016	25C735F	2009	25C748OR	2016	25C763J	2016	25C773GN	2009	25C786	2016
25C716OR	2009	25C733BL	2016	25C735FA3	2009	25C748R	2016	25C763K	2016	25C773H	2009	25C786A	2016
25C716R	2009	25C733BLK	2016	25C735G	2009	25C748X	2016	25C763L	2016	25C773J	2009	25C786B	2016
25C716X	2009	25C733BLU	2016	25C735GN	2009	25C748Y	2016	25C763M	2016	25C773K	2009	25C786C	2016
25C716Y	2009	25C733C	2016	25C735GR	2009	25C751	2016	25C763OR	2016	25C773L	2009	25C786D	2016
25C717	2016	25C733D	2016	25C735GRN	2009	25C752	2009	25C763R	2016	25C773M	2009	25C786E	2016
25C717-TM	2016	25C733E	2016	25C735H	2009	25C752-ORG-G	2009	25C763S	2016	25C773OR	2009	25C786F	2016
25C717B	2016	25C733ER	2016	25C735J	2009	25C752-RED-G	2009	25C763T	2016	25C773R	2009	25C786G	2016
25C717BK	2016	25C733F	2016	25C735K	2009	25C752-YEL-G	2009	25C763X	2016	25C773X	2009	25C786GN	2016
25C717BLK	2016	25C733G	2016	25C735L	2009	25C752A	2009	25C763Y	2016	25C773Y	2009	25C786H	2016
25C717F	2016	25C733GN	2016	25C735M	2009	25C752B	2009	25C764	2009	25C784	2058	25C786J	2016
25C717G	2016	25C733GR	2016	25C735O	2009	25C752C	2009	25C766	2041	25C784(BN)	2058	25C786K	2016
25C717GN	2016	25C733GRN	2016	25C735OR	2009	25C752D	2009	25C767	2041	25C784(R)	2058	25C786L	2016
25C717H	2016	25C733H	2016	25C735RED	2009	25C752E	2009	25C771	2058	25C784-O	2058	25C786M	2016
25C717K	2016	25C733J	2016	25C735X	2009	25C752F	2009	25C771A	2058	25C784-6	2058	25C786OR	2016
25C717L	2016	25C733K	2016	25C735Y	2009	25C752G	2009	25C771B	2058	25C784-B	2058	25C786R	2016
25C717M	2016	25C733L	2016	25C735YEL	2009	25C752GA	2009	25C771BX	2058	25C784-BN	2058	25C786X	2016
25C717TM	2016	25C733M	2016	25C735YFA-5	2009	25C752GN	2009	25C771C	2058	25C784-BRN	2058	25C786Y	2016
25C717X	2016	25C733O	2016	25C737	2009	25C752G-O	2009	25C771D	2058	25C784-O	2058	25C787	2016
25C718	2009	25C733OR	2016	25C737Y	2009	25C752G-R	2009	25C771E	2058	25C784-OR	2058	25C787A	2016
25C719	2009	25C733Q	2016	25C738	2016	25C752GM-Y	2009	25C771F	2058	25C784-ORG	2058	25C787B	2016
25C719Q	2009	25C733R	2016	25C738A	2016	25C752GTM-Y	2009	25C771G	2058	25C784-R	2058	25C787C	2016
25C720	2016	25C733S	2016	25C738B	2016	25C752G-Y	2009	25C771GN	2058	25C784-RED	2058	25C787D	2016
25C721	2009	25C733S-BL	2016	25C738C	2016	25C752H	2009	25C771H	2058	25C784-Y	2058	25C787E	2016
25C722	2016	25C733V	2016	25C738D	2016	25C752J	2009	25C771J	2058	25C784A	2058	25C787F	2016
25C723	2016	25C733X	2016	25C738E	2016	25C752K	2009	25C771K	2058	25C784B	2058	25C787G	2016
25C723BL	2016	25C733Y	2016	25C738F	2016	25C752L	2009	25C771L	2058	25C784BN	2058	25C787GN	2016
25C724	2009	25C733YEL	2016	25C738G	2016	25C752M	2009	25C771M	2058	25C784BN-1	2058	25C787H	2016
25C725	2009	25C734	2009	25C738GN	2016	25C752OR	2009	25C771OR	2058	25C784BRN	2058	25C787K	2016
25C725-06	2009	25C734(O)	2009	25C738H	2016	25C752R	2009	25C771R	2058	25C784C	2058	25C787L	2016
25C726	2009	25C734(R)	2009	25C738J	2016	25C752TM-YFA	2009	25C771X	2058	25C784D	2058	25C787M	2016
25C732	2016	25C734(Y)	2009	25C738K	2016	25C752X	2009	25C771Y	2058	25C784E	2058	25C787OR	2016
25C732(BL)	2016	25C734-O	2009	25C738L	2016	25C752Y	2009	25C772	2058	25C784F	2058	25C787R	2016
25C732-B	2016	25C734-G	2009	25C738M	2016	25C754	2009	25C772-OR	2058	25C784G	2058	25C787X	2016
25C732-BL	2016	25C734-GR	2009	25C738OR	2016	25C755	1617	25C772A	2058	25C784GN	2058	25C787Y	2016
25C732-BLU	2016	25C734-GRN	2009	25C738R	2016	25C758OR	2058	25C772B	2058	25C784H	2058	25C789	2020
25C732-G	2016	25C734-O	2009	25C738X	2016	25C760	2041	25C772BG	2058	25C784J	2058	25C789-O	2020
25C732-GR	2016	25C734-OR	2009	25C738Y	2016	25C761	2016	25C772BH	2058	25C784K	2058	25C789-O	2020
25C732-GRN	2016	25C734-ORG	2009	25C739	2016	25C761(Y)	2016	25C772BV	2058	25C784L	2058	25C789-R	2020
25C732-OR	2016	25C734-OY	2009	25C739A	2016	25C761A	2016	25C772BX	2058	25C784M	2058	25C789-Y	2020
25C732-V	2016	25C734-R	2009	25C739B	2016	25C761B	2016	25C772BY	2058	25C784OR	2058	25C789A	2020
25C732-V10	2016	25C734-RED	2009	25C739C	2016	25C761C	2016	25C772C	2058	25C784P	2058	25C789B	2020
25C732-VIO	2016	25C734-Y	2009	25C739D	2016	25C761D	2016	25C772C1	2058	25C784Q	2058	25C789C	2020
25C732A	2016	25C734-YEL	2009	25C739E	2016	25C761E	2016	25C772C2	2058	25C784R	2058	25C789D	2020
25C732B	2016	25C734A	2009	25C739F	2016	25C761F	2016	25C772CA	2058	25C784RA	2058	25C789E	2020
25C732BL	2016	25C734B	2009	25C739G	2016	25C761G	2016	25C772CC	2058	25C784RED	2058	25C789F	2020
25C732BL-1	2016	25C734C	2009	25C739GN	2016	25C761GN	2016	25C772CL	2058	25C784X	2058	25C789G	2020
25C732BLU	2016	25C734D	2009	25C739H	2016	25C761H	2016	25C772CS	2058	25C785	2058	25C789GN	2020
25C732C	2016	25C734E	2009	25C739K	2016	25C761J	2016	25C772CU	2058	25C785(E)(D)	2058	25C789H	2020
25C732D	2016	25C734F	2009	25C739L	2016	25C761K	2016	25C772CV	2058	25C785(R)	2058	25C789J	2020
25C732E	2016	25C734G	2009	25C739M	2016	25C761L	2016	25C772CX	2058	25C785-O	2058	25C789K	2020
25C732F	2016	25C734GN	2009	25C739OR	2016	25C761M	2016	25C772D	2058	25C785-B	2058	25C789L	2020
25C732G	2016	25C734GR	2009	25C739R	2016	25C761OR	2016	25C772DJ	2058	25C785-BN	2058	25C789M	2020
25C732GN	2016	25C734GRN	2009	25C739Y	2016	25C761P	2016	25C772DU	2058	25C785-BRN	2058	25C789OR	2020
25C732GR	2016	25C734H	2009	25C740	2016	25C761R	2016	25C772DV	2058	25C785-O	2058	25C789R	2020
25C732GR/4454C	2016	25C734J	2009	25C740A	2016	25C761X	2016	25C772DX	2058	25C785-ORG	2058	25C789X	2020
25C732GRB	2016	25C734K	2009	25C740B	2016	25C761Y	2016	25C772DY	2058	25C785-O JA	2058	25C789Y	2020
25C732GRN	2016	25C734K/GR	2009	25C740C	2016	25C761Z	2016	25C772E	2058	25C785-R	2058	25C790	2020
25C732H	2016	25C734L	2009	25C740D	2016	25C762	2016	25C772F	2058	25C785-RED	2058	25C790(O)	2020
25C732J	2016	25C734M	2009	25C740E	2016	25C762B	2016	25C772G	2058	25C785-Y	2058	25C790-O	2020
25C732L	2016	25C734OR	2009	25C740F	2016	25C762C	2016	25C772GN	2058	25C785-YEL	2058	25C790-R	2020
25C732M	2016	25C734R	2009	25C740G	2016	25C762D	2016	25C772H	2058	25C785A	2058	25C790-Y	2020
25C732OR	2016	25C734RED	2009	25C740GN	2016	25C762E	2016	25C772J	2058	25C785B	2058	25C790Y	2020
25C732R	2016	25C734X	2009	25C740H	2016	25C762F	2016	25C772K	2058	25C785BL	2058	25C793	2041
25C732S	2016	25C734Y	2009	25C740J	2016	25C762G	2016	25C772KB	2058	25C785BN	2058	25C793-BL	2041
25C732V	2016	25C734YEL	2009	25C740K	2016	25C762GN	2016	25C772KC	2058	25C785BR	2058	25C793-BLU	2041
25C732V10	2016	25C735	2009	25C740L	2016	25C762H	2016	25C772KD	2058	25C785BRM	2058	25C793-R	2041
25C732VIO	2016	25C735(O)	2009	25C740M	2016	25C762J	2016	25C772KD1	2058	25C785C	2058	25C793-RED	2041
25C732X	2016	25C735(O)	2009	25C740OR	2016	25C762K	2016	25C772KD2	2058	25C785D	2058	25C793-Y	2041
25C732Y	2016	25C735(Y)	2009	25C740R	2016	25C762L	2016	25C772L	2058	25C785E	2058	25C793-YEL	2041
25C733	2016	25C735-O	2009	25C740X	2016	25C762M	2016	25C772M	2058	25C785F	2058	25C793A	2041
25C733(BL)	2016	25C735-GR	2009	25C740Y	2016	25C762R	2016	25C772OR	2058	25C785G	2058	25C793B	2041
25C733(GR)	2016	25C735-GRN	2009	25C744	2030	25C762X	2016	25C772R	2058	25C785GN	2058	25C793BL	2041
25C733(Y)	2016	25C735-O	2009	25C744A	2030	25C762Y	2016	25C772RB-D	2058	25C785GR	2058	25C793C	2041
25C733-O	2016	25C735-OR	2009	25C748	2030	25C763	2016	25C772RD	2058	25C785H	2058	25C793E	2041
25C733-B	2016	25C735-ORG	2009	25C748A	2016	25C763(C)	2016	25C77					

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25C944	1617	25C907Y	1617	25C921L	2016	25C927L	2016	25C930T	2016	25C934X	1617	25C943(TK, P)	2009
25C944M	1617	25C909	2017	25C927M	2016	25C927E.Z	2016	25C930T.2	2016	25C934Y	1617	25C945(TP)	2009
25C944M	1617	25C911	2017	25C927OM	2016	25C927T	2016	25C930T.X	2016	25C934Z	2055	25C945(TQ)	2009
25C944X	1617	25C911A	2017	25C927L	2016	25C927G	2016	25C930T.Z	2016	25C934A(BK)	2055	25C945(TQ, Q)	2009
25C944X	1617	25C912	2016	25C927M	2016	25C927GM	2016	25C930T	2016	25C934B	2055	25C945-O	2009
25C946Y	1617	25C912M	1617	25C927X	2016	25C927H	2016	25C930EP	2016	25C934E	2055	25C945-K	2009
25C947	2041	25C914	1617	25C927Y	2016	25C927J	2016	25C930EV	2016	25C934G	2055	25C945-O	2009
25C897A	2041	25C914A	1617	25C922	2009	25C927K	2016	25C930ET	2016	25C934H	2055	25C945-OR	2009
25C897B	2041	25C915	1617	25C922A	2009	25C927L	2016	25C930EX	2016	25C934I	2055	25C945-P	2009
25C898	2041	25C915A	1617	25C922B	2009	25C927M	2016	25C930F	2016	25C934J	2055	25C945-Q	2009
25C898A	2041	25C916	2020	25C922C	2009	25C927OM	2016	25C930G	2016	25C934K	2055	25C945-T	2009
25C898B	2041	25C917	2016	25C922K	2009	25C927P	2016	25C930GN	2016	25C934L	2055	25C945-TQ	2009
25C898	1617	25C917(K)	2016	25C922L	2009	25C927R	2016	25C930H	2016	25C934M	2055	25C945-YX	2009
25C898A	1617	25C917A	2016	25C922M	2009	25C927TL	2016	25C930I	2016	25C934N	2055	25C945A	2009
25C898B	1617	25C917B	2016	25C922	2016	25C927Y	2016	25C930K	2016	25C934P	2055	25C945A	2009
25C899C	1617	25C917C	2016	25C923	2016	25C927Z	2016	25C930L	2016	25C934Q	2055	25C945A(C)	2009
25C899D	1617	25C917D	2016	25C923(E)	2016	25C928	2016	25C930M	2016	25C934R	2055	25C945A(C)T	2009
25C899E	1617	25C917E	2016	25C923(E)(F)	2016	25C928A	2016	25C930MP	2016	25C934S	2055	25C945A(K)	2009
25C899F	1617	25C917F	2016	25C923(F)	2016	25C928B	2016	25C930OR	2016	25C934T	2055	25C945A(P)	2009
25C899G	1617	25C917G	2016	25C923A	2016	25C928C	2016	25C930R	2016	25C934U	2055	25C945A(Q)	2009
25C899GN	1617	25C917GM	2016	25C923B	2016	25C928D	2016	25C930S	2016	25C934V	2055	25C945A(Q, R)	2009
25C899H	1617	25C917H	2016	25C923C	2016	25C928E	2016	25C930T	2016	25C934W	2055	25C945A(S)	2009
25C899J	1617	25C917J	2016	25C923D	2016	25C928F	2016	25C930V	2016	25C934X	2009	25C945A(T)	2009
25C899K	1617	25C917K	2016	25C923E	2016	25C928G	2016	25C930W	2016	25C934Y	2009	25C945A(U)	2009
25C899L	1617	25C917L	2016	25C923F	2016	25C928H	2016	25C930X	2016	25C934Z	2009	25C945A(V)	2009
25C899M	1617	25C917M	2016	25C923G	2016	25C928I	2016	25C930Y	2016	25C934A	2009	25C945A(W)	2009
25C899OR	1617	25C917OR	2016	25C923GN	2016	25C928J	2016	25C930Z	2016	25C934B	2009	25C945A(X)	2009
25C899R	1617	25C917R	2016	25C923H	2016	25C928K	2016	25C930A	2016	25C934C	2009	25C945A(Y)	2009
25C899X	1617	25C917X	2016	25C923K	2016	25C928L	2016	25C930B	2016	25C934D	2009	25C945A(Z)	2009
25C899Y	1617	25C917Y	2016	25C923L	2016	25C928M	2016	25C930C	2016	25C934E	2009	25C945A	2009
25C900	2016	25C918	2058	25C923M	2016	25C928OM	2016	25C930D	2016	25C934F	2009	25C945B	2009
25C900A	2016	25C918A	2058	25C923OR	2016	25C928P	2016	25C930E	2016	25C934G	2009	25C945C	2009
25C900B(L)	2016	25C918AL	2058	25C923P	2016	25C928Q	2016	25C930F	2016	25C934H	2009	25C945D	2009
25C900C(L)	2016	25C918CL	2058	25C923R	2016	25C928R	2016	25C930G	2016	25C934I	2009	25C945E	2009
25C900D	2016	25C918D	2058	25C923Y	2016	25C928S	2016	25C930H	2016	25C934J	2009	25C945F	2009
25C900E	2016	25C918E	2058	25C924	2016	25C928T	2016	25C930I	2016	25C934K	2009	25C945G	2009
25C900F	2016	25C918F	2058	25C924A	2016	25C928U	2016	25C930J	2016	25C934L	2009	25C945GN	2009
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25C900H	2016	25C918H	2058	25C924C	2016	25C928W	2016	25C930L	2016	25C934N	2009	25C945I	2009
25C900I	2016	25C918I	2058	25C924D	2016	25C928X	2016	25C930M	2016	25C934O	2009	25C945K	2009
25C900J	2016	25C918J	2058	25C924E	2016	25C928Y	2016	25C930N	2016	25C934P	2009	25C945L	2009
25C900K	2016	25C918K	2058	25C924F	2016	25C928Z	2016	25C930O	2016	25C934Q	2009	25C945M	2009
25C900L	2016	25C918L	2058	25C924G	2016	25C928A	2016	25C930P	2016	25C934R	2009	25C945N	2009
25C900M	2016	25C918M	2058	25C924GN	2016	25C928B	2016	25C930Q	2016	25C934S	2009	25C945O	2009
25C900N	2016	25C918N	2058	25C924H	2016	25C928C	2016	25C930R	2016	25C934T	2009	25C945P	2009
25C900OR	2016	25C918OR	2058	25C924J	2016	25C928D	2016	25C930S	2016	25C934U	2009	25C945Q	2009
25C900R	2016	25C918R	2058	25C924K	2016	25C928E	2016	25C930T	2016	25C934V	2009	25C945R	2009
25C900S	2016	25C918S	2058	25C924L	2016	25C928F	2016	25C930U	2016	25C934W	2009	25C945S	2009
25C900T	2016	25C918T	2058	25C924M	2016	25C928G	2016	25C930V	2016	25C934X	2009	25C945T	2009
25C900U	2016	25C918U	2058	25C924OM	2016	25C928H	2016	25C930W	2016	25C934Y	2009	25C945U	2009
25C900V	2016	25C918V	2058	25C924P	2016	25C928I	2016	25C930X	2016	25C934Z	2009	25C945V	2009
25C900W	2016	25C918W	2058	25C924Q	2016	25C928J	2016	25C930Y	2016	25C934A	2009	25C945W	2009
25C900X	2016	25C918X	2058	25C924R	2016	25C928K	2016	25C930Z	2016	25C934B	2009	25C945X	2009
25C900Y	2016	25C918Y	2058	25C924S	2016	25C928L	2016	25C930A	2016	25C934C	2009	25C945Y	2009
25C900Z	2016	25C918Z	2058	25C924T	2016	25C928M	2016	25C930B	2016	25C934D	2009	25C945Z	2009
25C901	2016	25C919	2058	25C924U	2016	25C928N	2016	25C930C	2016	25C934E	2009	25C945A	2009
25C901A	2016	25C919A	2058	25C924V	2016	25C928OM	2016	25C930D	2016	25C934F	2009	25C945B	2009
25C901B	2016	25C919B	2058	25C924W	2016	25C928P	2016	25C930E	2016	25C934G	2009	25C945C	2009
25C901C	2016	25C919C	2058	25C924X	2016	25C928Q	2016	25C930F	2016	25C934H	2009	25C945D	2009
25C901D	2016	25C919D	2058	25C924Y	2016	25C928R	2016	25C930G	2016	25C934I	2009	25C945E	2009
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25C901J	2016	25C919J	2058	25C925D	2009	25C928X	2016	25C930M	2016	25C934O	2009	25C945K	2009
25C901K	2016	25C919K	2058	25C925E	2009	25C928Y	2016	25C930N	2016	25C934P	2009	25C945L	2009
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25C901N	2016	25C919N	2058	25C925GN	2009	25C928B	2016	25C930Q	2016	25C934S	2009	25C945O	2009
25C901P	2016	25C919P	2058	25C925H	2009	25C928C	2016	25C930R	2016	25C934T	2009	25C945P	2009
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25C901T	2016	25C919T	2058	25C925L	2009	25C928G	2016	25C930V	2016	25C934X	2009	25C945T	2009
25C901U	2016	25C919U	2058	25C925M	2009	25C928H	2016	25C930W	2016	25C934Y	2009	25C945U	2009
25C901V	2016	25C919V	2058	25C925N	2009	25C928I	2016	25C930X	2016	25C934Z	2009	25C945V	2009
25C901W	2016	25C919W	2058	25C925OM	2009	25C928J	2016	25C930Y	2016	25C934A	2009	25C945W	2009
25C901X	2016	25C919X	2058	25C925P	2009	25C928K	2016	25C930Z	2016	25C934B	2009	25C945X	2009
25C901Y	2016	25C919Y	2058	25C925Q	2009	25C928L	2016	25C930A	2016	25C934C	2009	25C945Y	

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25C948K	2016	25C967H	1617	25C987A	2016	25C1004OR	2055	25C1030-OR	2041	25C1045OR	2055	25C1061SC	2020
25C948L	2016	25C967GN	1617	25C988	2016	25C1004R	2055	25C1030A	2041	25C1045R	2055	25C1061T	2020
25C948M	2016	25C967J	1617	25C988A	2016	25C1004X	2055	25C1030B	2041	25C1045X	2055	25C1061TB	2020
25C948OR	2016	25C967K	1617	25C988B	2016	25C1004Y	2055	25C1030B2C	2041	25C1045Y	2055	25C1067	2016
25C948R	2016	25C967L	1617	25C990	2020	25C1005	2055	25C1030C	2041	25C1046	2055	25C1070	2016
25C948X	2016	25C967M	1617	25C993	1617	25C1005A	2055	25C1030D	2041	25C1046-OR	2055	25C1070-1	2016
25C948Y	2016	25C967OR	1617	25C993D	1617	25C1005B	2055	25C1030E	2041	25C1046A	2055	25C1070-2	2016
25C949	2016	25C967R	1617	25C993E	1617	25C1005C	2055	25C1030F	2041	25C1046B	2055	25C1070-B	2016
25C950	1617	25C967X	1617	25C994	2009	25C1005D	2055	25C1030G	2041	25C1046C	2055	25C1071	1617
25C951	2009	25C967Y	1617	25C997	2058	25C1005E	2055	25C1030H	2041	25C1046D	2055	25C1072	2030
25C952	2009	25C968	2009	25C997A	2058	25C1005F	2055	25C1030J	2041	25C1046E	2055	25C1072A	2030
25C953	1617	25C968A	2009	25C997B	2058	25C1005G	2055	25C1030K	2041	25C1046F	2055	25C1079	2041
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25C955	1617	25C968C	2009	25C997D	2058	25C1005H	2055	25C1030M	2041	25C1046GN	2055	25C1079-Y	2041
25C956	1617	25C968D	2009	25C997E	2058	25C1005J	2055	25C1030OR	2041	25C1046H	2055	25C1080	2041
25C957	2016	25C968E	2009	25C997F	2058	25C1005K	2055	25C1030R	2041	25C1046J	2055	25C1080-R	2041
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25C957D	2016	25C968J	2009	25C997K	2058	25C1005S	2055	25C1032A	2016	25C1046OR	2055	25C1091A	2017
25C957E	2016	25C968K	2009	25C997L	2058	25C1005Y	2055	25C1032B	2016	25C1046R	2055	25C1098	2017
25C957F	2016	25C968L	2009	25C997M	2058	25C1006	2016	25C1032BL	2016	25C1046X	2055	25C1098(4)K	2017
25C957G	2016	25C968M	2009	25C997OR	2058	25C1006A	2016	25C1032C	2016	25C1046Y	2055	25C1098(4)L	2017
25C957GN	2016	25C968OR	2009	25C997R	2058	25C1006B	2016	25C1032D	2016	25C1047	2016	25C1098(L)	2017
25C957H	2016	25C968P	2009	25C997X	2058	25C1006C	2016	25C1032E	2016	25C1047(B)	2016	25C1098(M)	2017
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25C957L	2016	25C968Y	2009	25C999A	2055	25C1008A	2030	25C1032GN	2016	25C1047A	2016	25C1098-42M	2017
25C957M	2016	25C969	1617	25C999B	2055	25C1009	2058	25C1032H	2016	25C1047B	2016	25C1098A	2017
25C957OR	2016	25C970	2016	25C999C	2055	25C1009A	2058	25C1032J	2016	25C1047BC	2016	25C1098B	2017
25C957R	2016	25C972	2030	25C999D	2055	25C1009F1	2058	25C1032K	2016	25C1047BCD	2016	25C1098C	2017
25C957X	2016	25C972A	2030	25C999E	2055	25C1009F2	2058	25C1032L	2016	25C1047C	2016	25C1098D	2017
25C957XL	2016	25C972B	2030	25C999F	2055	25C1009F3	2058	25C1032M	2016	25C1047D	2016	25C1098E	2017
25C957Y	2016	25C972C	2030	25C999G	2055	25C1009F4	2058	25C1032OR	2016	25C1047E	2016	25C1098M	2017
25C959	2030	25C972D	2030	25C999GN	2055	25C1009F5	2058	25C1032R	2016	25C1047F	2016	25C1099	2055
25C959A	2030	25C972E	2030	25C999H	2055	25C1010	2016	25C1032X	2016	25C1047G	2016	25C1099(K)	2055
25C959B	2030	25C972F	2030	25C999J	2055	25C1010A	2016	25C1032Y	2016	25C1047GN	2016	25C1099K	2055
25C959C	2030	25C972G	2030	25C999K	2055	25C1010B	2016	25C1035	2016	25C1047GR	2016	25C1100	2055
25C959D	2030	25C972GN	2030	25C999L	2055	25C1010C	2016	25C1035A	2016	25C1047H	2016	25C1100A	2055
25C959E	2030	25C972H	2030	25C999M	2055	25C1010C	2020	25C1035B	2016	25C1047J	2016	25C1100B	2055
25C959F	2030	25C972J	2030	25C999OR	2055	25C1023	2016	25C1035C	2016	25C1047K	2016	25C1100C	2055
25C959G	2030	25C972K	2030	25C999R	2055	25C1023(0)	2016	25C1035D	2016	25C1047L	2016	25C1100D	2055
25C959GN	2030	25C972L	2030	25C999X	2055	25C1023(O)	2016	25C1035E	2016	25C1047M	2016	25C1100E	2055
25C959H	2030	25C972M	2030	25C999Y	2055	25C1023-O	2016	25C1035F	2016	25C1047R	2016	25C1100F	2055
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25C959K	2030	25C972R	2030	25C1000(BL)	2016	25C1023A	2016	25C1035H	2016	25C1047Y	2016	25C1100GN	2055
25C959L	2030	25C972X	2030	25C1000(GR)	2016	25C1023B	2016	25C1035J	2016	25C1051	2041	25C1100H	2055
25C959M	2030	25C972Y	2030	25C1000-BL	2016	25C1023C	2016	25C1035L	2016	25C1051L	2041	25C1100J	2055
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25C959S	2030	25C979	1617	25C1000A	2016	25C1023F	2016	25C1035R	2009	25C1054	2016	25C1100M	2055
25C959SA	2030	25C979-O	1617	25C1000B	2016	25C1023G	2016	25C1035X	2009	25C1060	2020	25C1100OR	2055
25C959SB	2030	25C979-R	1617	25C1000BL	2016	25C1023GN	2016	25C1035Y	2016	25C1060(C,D)	2020	25C1100R	2055
25C959SC	2030	25C979-Y	1617	25C1000C	2016	25C1023H	2016	25C1036	2016	25C1060A	2020	25C1100X	2055
25C959SD	2030	25C979A	1617	25C1000D	2016	25C1023J	2016	25C1036A	2016	25C1060B	2020	25C1100Y	2055
25C959X	2030	25C979A-O	1617	25C1000E	2016	25C1023K	2016	25C1036B	2016	25C1060BL	2020	25C1101	2055
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25C964	1617	25C980A@	2009	25C1000GBL	2016	25C1023R	2016	25C1036F	2016	25C1060D	2020	25C1101D	2055
25C966	1617	25C980AG-S	2009	25C1000G-GR	2016	25C1023X	2016	25C1036G	2016	25C1060E	2020	25C1101E	2055
25C966A	1617	25C980AG-R	2009	25C1000GN	2016	25C1023Y	2016	25C1036GN	2016	25C1060F	2020	25C1101F	2055
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25C966C	1617	25C980G-O	2009	25C1000H	2016	25C1026(G)	2016	25C1036J	2016	25C1060GN	2020	25C1101GN	2055
25C966D	1617	25C980G-R	2009	25C1000J	2016	25C1026-O	2016	25C1036K	2016	25C1060H	2020	25C1101H	2055
25C966E	1617	25C980G-Y	2009	25C1000K	2016	25C1026-R	2016	25C1036L	2016	25C1060J	2020	25C1101J	2055
25C966F	1617	25C1000L	2009	25C1000L	2016	25C1026A	2016	25C1036M	2016	25C1060K	2020	25C1101K	2055
25C966G	1617	25C984A	2009	25C1000M	2016	25C1026B	2016	25C1036OR	2016	25C1060L	2020	25C1101L	2055
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25C966H	1617	25C984C	2009	25C1000R	2016	25C1026C	2016	25C1036X	2016	25C1060OR	2020	25C1101OR	2055
25C966J	1617	25C984D	2009	25C1000S	2016	25C1026D	2016	25C1036Y	2016	25C1060R	2020	25C1101R	2055
25C966K	1617	25C984E	2009	25C1000T	2016	25C1026E	2016	25C1044	2016	25C1060X	2020	25C1101X	2055
25C966L	1617	25C984F	2009	25C1004	2055	25C1026F	2016	25C1045	2055	25C1060Y	2020	25C1101Y	2055
25C966M	1617	25C984G	2009	25C1004A	2055	25C1026G	2016	25C1045(B)	2055	25C1061	2020	25C1107	2020
25C966OR	1617	25C984GN	2009	25C1004B	2055	25C1026GN	2016	25C1045B	2055	25C1061(B)	2020	25C1107Q</	

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25C1395	2016	25C1423A	2016	25C1681GM	2016	25C1729	1617	25C1815G	2009	25C1959Y	2009	25C2110	2009
25C1396	2016	25C1423D6	2016	25C1681GR	2016	25C1740	2009	25C1815GR	2009	25C1960	2009	25C2111	1617
25C1398	2020	25C1422D7	2016	25C1681H	2016	25C1740(Q)	2009	25C1815NEW-BL	2009	25C1976	2009	25C2120	2009
25C1399(Q)	2020	25C1422D8	2016	25C1681J	2016	25C1740(Q)L	2009	25C1815NEW-GR	2009	25C1984	2009	25C2120(Y)	2009
25C1399Q	2020	25C1622O	2016	25C1681K	2016	25C1740(Q)Y	2009	25C1815NEW-O	2009	25C1985	2009	25C2120-O	2009
25C1398Q	2020	25C1622Y	2016	25C1681L	2016	25C1740(R)	2009	25C1815NEW-Y	2009	25C1986	2009	25C2120-O	2009
25C1402	2041	25C1623	2016	25C1681M	2016	25C1740(R)-L	2009	25C1815O	2009	25C1989	2016	25C2120-Y	2009
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25C1413	2055	25C1623L4	2016	25C1681OR	2016	25C1740(S)	2009	25C1815Y	2009	25C1990B	2016	25C2120Y	2009
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25C1413F	2055	25C1624-Y	2020	25C1681Y	2016	25C1740Q	2009	25C1826D	2020	25C1998	1617	25C2121	2055
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25C1413Q	2055	25C1626	2020	25C1681G	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1413R	2055	25C1626-Q	2020	25C1681H	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1413S	2055	25C1626-Y	2020	25C1681I	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1413T	2055	25C1626-Y	2020	25C1681J	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
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25C1413Y	2055	25C1626-Y	2020	25C1681O	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1414	1617	25C1626-Y	2020	25C1681P	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1414A	1617	25C1626-Y	2020	25C1681Q	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1417	2016	25C1626Y	2020	25C1681R	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1417(G)	2016	25C1627	2009	25C1681S	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1417(V)	2016	25C1627(Y)	2009	25C1681T	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1417(V,G)	2016	25C1627-O	2009	25C1681U	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1417(W)	2016	25C1627-Y	2009	25C1681V	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1417(W,Y)	2016	25C1627-YFA	2009	25C1681W	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1417(V)	2016	25C1627A	2009	25C1681X	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1417V	2016	25C1627AO	2009	25C1681Y	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1417V	2016	25C1627AY	2009	25C1681Z	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1417W	2016	25C1627Y	2009	25C1681A	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1417W	2016	25C1627Y	2009	25C1681B	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1417W	2016	25C1627Y	2009	25C1681C	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1417W	2016	25C1627Y	2009	25C1681D	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1418	2020	25C1633	2016	25C1681E	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419	2020	25C1634	2016	25C1681F	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419-C	2020	25C1635	2030	25C1681G	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681H	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681I	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681J	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681K	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681L	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681M	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681N	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681O	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681P	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681Q	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681R	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681S	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681T	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681U	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681V	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681W	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681X	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681Y	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681Z	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
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25C1419C	2020	25C1636	2016	25C1681B	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681C	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681D	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681E	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681F	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681G	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	25C1636	2016	25C1681H	2016	25C1740R	2009	25C1826R	2020	25C2001-T	2009	25C2121	2055
25C1419C	2020	2											

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
25C254E	2014	25C2839F	2009	25C4033C	2058	25CF5G	2009	25CS429J	2016	25D19OR	2020	25D110-YEL	2041
25C254F	2014	25C2840	2016	25C4033D	2058	25CF5GN	2009	25CS429K	2016	25D29R	2020	25D111	2041
25C254F	2038	25C2840D	2016	25C4033E	2058	25CF5H	2009	25CS429L	2016	25D29X	2020	25D111-O	2041
25C2550	1617	25C2844	2016	25C4033F	2058	25CF5J	2009	25CS429M	2016	25D29Y	2020	25D111-ORG	2041
25C2561	2016	25C2901	2009	25C4033G	2058	25CF5K	2009	25CS429N	2016	25D33	2016	25D111-R	2041
25C2570	2016	25C2926	2016	25C4033GN	2058	25CF5L	2009	25CS429R	2016	25D33A	2016	25D111-RED	2041
25C2570A	2016	25C2928	2055	25C4033H	2058	25CF5M	2009	25CS429X	2016	25D33B	2016	25D111-Y	2041
25C2570AE	2016	25C2928-01	2055	25C4033J	2058	25CF5OR	2009	25CS429Y	2016	25D33C	2016	25D111-YEL	2041
25C2575	2009	25C2960	2009	25C4033K	2058	25CF5R	2009	25CS430	2016	25D33D	2016	25D111R	2041
25C2575L	2009	25C2960E	2009	25C4033L	2058	25CF5X	2009	25CS430A	2016	25D33E	2016	25D116	2041
25C2602	2016	25C2960F	2009	25C4033M	2058	25CF5Y	2009	25CS430B	2016	25D33F	2016	25D118	2041
25C2603	2009	25C2960G	2009	25C4033OR	2058	25CF-6	2009	25CS430C	2016	25D33G	2016	25D118BL	2041
25C2603(B)	2009	25C2999(E)	2016	25C4033R	2058	25CF6A	2030	25CS430D	2016	25D33GN	2016	25D118R	2041
25C2603(F)	2009	25C3000	2009	25C4033X	2058	25CF6B	2030	25CS430E	2016	25D33M	2016	25D118Y	2041
25C2603(F)	2009	25C3000-AA	2009	25C4033Y	2058	25CF6C	2030	25CS430F	2016	25D33N	2016	25D119	2041
25C2603(G)	2009	25C3000E	2009	25C4116	2020	25CF6D	2030	25CS430GN	2016	25D33K	2016	25D119-BL	2041
25C2603-D	2009	25C3112(A)	2016	25C4116A	2020	25CF6E	2030	25CS430H	2016	25D33L	2016	25D119-BLU	2041
25C2603-E	2009	25C3112(B)	2016	25C4116B	2020	25CF6F	2030	25CS430J	2016	25D33OR	2016	25D119-R	2041
25C2603-F	2009	25C3112AB	2016	25C4116C	2020	25CF6G	2030	25CS430K	2016	25D33X	2016	25D119-RED	2041
25C2603-G	2009	25C3114(S)	2009	25C4116D	2020	25CF6GN	2030	25CS430L	2016	25D33Y	2016	25D119-Y	2041
25C2603H	2009	25C3114(T)	2009	25C4116E	2020	25CF6H	2030	25CS430M	2016	25D40	2020	25D119-YEL	2041
25C2603I	2009	25C3156	2055	25C4116F	2020	25CF6J	2030	25CS430N	2016	25D49	2020	25D119A	2041
25C2603G	2009	25C3179	2020	25C4116G	2020	25CF6K	2030	25CS430X	2016	25D49A	2020	25D119B	2041
25C2603R	2009	25C3179(G)	2020	25C4116GM	2020	25CF6L	2030	25CS430Y	2016	25D49B	2020	25D119BL	2041
25C2603S	2009	25C3179(Y)	2020	25C4116H	2020	25CF6M	2030	25CS4461	2016	25D49C	2020	25D119C	2041
25C2634	2016	25C3179G	2020	25C4116J	2020	25CF6OR	2030	25CS461A	2016	25D49D	2020	25D119D	2041
25C2634-R	2016	25C3179Y	2020	25C4116K	2020	25CF6R	2030	25CS461B	2016	25D49E	2020	25D119R	2041
25C2634-RS	2016	25C3214	2055	25C4116L	2020	25CF6X	2030	25CS461C	2016	25D49F	2020	25D119Y	2041
25C2634-S	2016	25C3299	2020	25C4116M	2020	25CF6Y	2030	25CS461D	2016	25D49G	2020	25D122	2020
25C2634NC	2016	25C3299(Y)	2020	25C4116OR	2020	25CF-F11	2058	25CS461E	2016	25D49GN	2020	25D123	2020
25C2634R	2016	25C3299Y	2020	25C4116R	2020	25CF-F11A	2058	25CS461F	2016	25D49J	2020	25D124	2020
25C2634S	2016	25C3720	2058	25C4116X	2020	25CF-F11D	2058	25CS461G	2016	25D49K	2020	25D141A	2020
25C2634S	2016	25C3720A	2058	25C4116Y	2020	25CF-F11C	2058	25CS461GN	2016	25D49L	2020	25D141B	2020
25C2634	2016	25C3720B	2058	25C5120	2017	25CF-F11D	2058	25CS461H	2016	25D49M	2020	25D141C	2020
25C2636(R)	2016	25C3720C	2058	25C5180	2017	25CF-F11E	2058	25CS461I	2016	25D49N	2020	25D141E	2020
25C2646	2016	25C3720D	2058	25C5430OR	2058	25CF-F11F	2058	25CS461K	2016	25D49R	2020	25D141F	2020
25C2647	2058	25C3720F	2058	25C8290	2009	25CF-F11G	2058	25CS461L	2016	25D49X	2020	25D141G	2020
25C2647C	2058	25C3720G	2058	25C9011E	2009	25CF-F11GN	2058	25CS461M	2016	25D49Y	2020	25D141GN	2020
25C2649	2009	25C3720GN	2058	25C9011F	2009	25CF-F11H	2058	25CS461OR	2016	25D52	2041	25D141H	2020
25C2649-O	2009	25C3720H	2058	25C9011H	2009	25CF-F11J	2058	25CS461R	2016	25D67	2041	25D141H01	2020
25C2649-Y	2009	25C3720J	2058	25C1014H	2017	25CF-F11K	2058	25CS461S	2016	25D67B	2041	25D141J	2020
25C2670	2009	25C3720K	2058	25C11070	2017	25CF-F11L	2058	25CS461T	2016	25D67C	2041	25D141K	2020
25C2675	2009	25C3720L	2058	25C14505	2020	25CF-F11M	2058	25CS467	2016	25D67D	2041	25D141L	2020
25C2710	2009	25C3720OR	2058	25C17401	1617	25CF-F11N	2058	25CS469A	2016	25D67E	2041	25D141M	2020
25C2710-O	2009	25C3720R	2058	25C17405	1617	25CF-F11R	2058	25CS469B	2016	25D67F	2041	25D141N	2020
25C2710-Y	2009	25C3720X	2058	25CD78	2020	25CF-F11X	2058	25CS469C	2016	25D74	2009	25D141OR	2020
25C2717	2058	25C3720Y	2058	25CF1	2016	25CF-F11Y	2058	25CS469D	2016	25D90	2020	25D141X	2020
25C2717FA	2058	25C3800	2058	25CF1A	2058	25CF-F14	2058	25CS469E	2016	25D90A	2020	25D141Y	2020
25C2719	2009	25C3800A	2058	25CF1B	2058	25CF-F14A	2058	25CS469F	2016	25D90B	2020	25D146	2020
25C2720	2009	25C3800B	2058	25CF1C	2058	25CF-F14B	2058	25CS469G	2016	25D90C	2020	25D146A	2020
25C2724	2009	25C3800C	2058	25CF1D	2058	25CF-F14C	2058	25CS469GN	2016	25D90D	2020	25D146B	2020
25C2724(D)	2009	25C3800D	2058	25CF1E	2058	25CF-F14D	2058	25CS469H	2016	25D90E	2020	25D146C	2020
25C2724(F)	2009	25C3800E	2058	25CF1F	2058	25CF-F14E	2058	25CS469J	2016	25D90F	2020	25D146D	2020
25C2724-C	2009	25C3800F	2058	25CF1G	2058	25CF-F14F	2058	25CS469K	2016	25D90G	2020	25D146E	2020
25C2724-CD	2009	25C3800G	2058	25CF1GN	2058	25CF-F14G	2058	25CS469L	2016	25D90GN	2020	25D146F	2020
25C2724-D	2009	25C3800GN	2058	25CF1H	2058	25CF-F14GN	2058	25CS469M	2016	25D90H	2020	25D146G	2020
25C2724-E	2009	25C3800H	2058	25CF1J	2058	25CF-F14H	2058	25CS469R	2016	25D90J	2020	25D146GN	2020
25C2724C	2009	25C3800J	2058	25CF1K	2058	25CF-F14J	2058	25CS469S	2016	25D90K	2020	25D146H	2020
25C2724D	2009	25C3800K	2058	25CF1L	2058	25CF-F14K	2058	25CS469T	2016	25D90L	2020	25D146J	2020
25C2724E	2009	25C3800L	2058	25CF1M	2058	25CF-F14L	2058	25D28	2020	25D90M	2020	25D146K	2020
25C2724F	2009	25C3800M	2058	25CF1N	2058	25CF-F14M	2058	25D20A	2020	25D90N	2020	25D146L	2020
25C2783	2009	25C3800OR	2058	25CF1R	2058	25CF-F14OR	2058	25D20B	2020	25D90P	2020	25D146M	2020
25C2785(F)	2009	25C3800R	2058	25CF1X	2058	25CF-F14R	2058	25D20C	2020	25D90Y	2020	25D146R	2020
25C2785(F)	2009	25C3800X	2058	25CF1Y	2058	25CF-F14X	2058	25D20D	2020	25D91	2020	25D146U	2020
25C2785(M)	2009	25C3800Y	2058	25CF-2	1617	25CF-F14Y	2058	25D20E	2020	25D91A	2020	25D146V	2020
25C2785-E	2009	25C3854	2016	25CF2A	2058	25CF2	2058	25D20F	2020	25D91B	2020	25D146X	2020
25C2785-F	2009	25C3940	2058	25CF2B	2058	25CF2A	2058	25D20G	2020	25D91E	2020	25D146Y	2020
25C2785-K	2009	25C3940A	2058	25CF2C	2058	25CF2B	2058	25D20GN	2020	25D91F	2020	25D147	2020
25C2785E	2009	25C3940B	2058	25CF2D	2058	25CF2C	2058	25D20H	2020	25D91G	2020	25D147A	2020
25C2785EE	2009	25C3940C	2058	25CF2E	2058	25CF2D	2058	25D20I	2020	25D91GN	2020	25D147B	2020
25C2785FF	2009	25C3940D	2058	25CF2G	2058	25CF2E	2058	25D20K	2020	25D91H	2020	25D147C	2020
25C2785F	2009	25C3940E	2058	25CF2GN	2058	25CF2F	2058	25D20L	2020	25D91J	2020	25D147D	2020
25C2785F(H)	2009	25C3940F	2058	25CF2H	2058	25CF2G	2058	25D20M	2020	25D91L	2020	25D147E	2020
25C2785FF	2009	25C3940G	2058	25CF2J	2058	25CF2H	2058	25D20OR	2020	25D91M	2020	25D147F	2020
25C2785H	2009	25C3940GN	2058	25CF2K	2058	25CF2J	2058	25D20P	2020	25D91N	2020	25D147G	2020
25C2785J	2009	25C3940H	2058	25CF2L	2058	25CF2K	2058	25D20Q	2020	25D91O	2020	25D147H	2020
25C2785K	2009	25C3940J	2058	25CF2M	2058	25CF2L	2058	25D20R	2020	25D91R	2020	25D147I	2020
25C2785TP	2009	25C3940K	2058	25CF2R	2058	25CF2M	2058	25D20S	2020	25D91X	2020	25D147J	2020
25C2786	2009	25C3940L	2058	25CF2X	2058	25CF2R	2058	25D20T	2020	25D91Y	2020	25D147K	2020
25C2786L	2009	25C3940M	2058	25CF2Y	2058	25CF2X	2058	25D20A	2020	25D107	2041	25D147L	2020
25C2787	2016	25C3940OR	2058	25CF5	1617	25CF2Y	2058	25D20B	2020	25D108</			

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2SD154L	2020	2SD182Y	2041	2SD204GN	2030	2SD2207	2030	2SD2427IC	2020	2SD214GN	2030	2SD343	2020
2SD154M	2020	2SD182Z	2030	2SD204H	2030	2SD221	2020	2SD243	2020	2SD214H	2020	2SD343A	2020
2SD154R	2020	2SD182A	2030	2SD204K	2030	2SD221F	2020	2SD244	2020	2SD214H	2020	2SD343B	2020
2SD154C	2020	2SD182B	2030	2SD204L	2030	2SD228	2009	2SD245	2020	2SD214M	2020	2SD343C	2020
2SD154E	2020	2SD182C	2030	2SD204M	2030	2SD228F	2009	2SD247	2020	2SD214M	2020	2SD343D	2020
2SD154F	2020	2SD182D	2030	2SD204R	2030	2SD228G	2009	2SD248	2020	2SD214R	2020	2SD343H	2020
2SD154G	2020	2SD182E	2030	2SD204Y	2030	2SD228GN	2009	2SD249	2020	2SD214Y	2020	2SD343J	2020
2SD154GN	2020	2SD182F	2030	2SD205	2030	2SD228H	2009	2SD288	2020	2SD215	2020	2SD343K	2020
2SD154H	2020	2SD182G	2030	2SD205(L)	2030	2SD228J	2009	2SD288(O)	2020	2SD215C	2020	2SD344	2020
2SD154J	2020	2SD182GN	2030	2SD205(M)	2030	2SD228K	2009	2SD288A	2020	2SD215D	2020	2SD345	2020
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2SD154R	2020	2SD182L	2030	2SD206D	2030	2SD228R	2009	2SD288E	2020	2SD216-2	2041	2SD350	2020
2SD154C	2020	2SD182OR	2030	2SD206E	2030	2SD228X	2009	2SD289	2020	2SD217	2020	2SD350A	2020
2SD154Y	2020	2SD182R	2030	2SD205F	2030	2SD228Y	2009	2SD289A	2020	2SD217A	2020	2SD350Q	2020
2SD163	2041	2SD182X	2030	2SD205G	2030	2SD234	2020	2SD289B	2020	2SD217A(F)	2020	2SD350T	2020
2SD164	2041	2SD182Y	2030	2SD205GN	2030	2SD234(O)	2020	2SD289C	2020	2SD217A(F)(P)	2020	2SD356	2020
2SD172	2041	2SD183	2030	2SD205H	2030	2SD234-O	2020	2SD292	2020	2SD217A(P)	2020	2SD356E	2020
2SD172A	2041	2SD183B	2030	2SD205J	2030	2SD234-O	2020	2SD292-0	2020	2SD217AF	2020	2SD357	2020
2SD172B	2041	2SD183C	2030	2SD205K	2030	2SD234-ORG	2020	2SD292A	2020	2SD217AP	2020	2SD357I	2020
2SD172C	2041	2SD183GN	2030	2SD205M	2030	2SD234-R	2020	2SD292B	2020	2SD217F	2020	2SD358	2020
2SD172D	2041	2SD183H	2030	2SD205OR	2030	2SD234-RED	2020	2SD292BL	2020	2SD217P	2020	2SD358I	2020
2SD172E	2041	2SD183L	2030	2SD206R	2030	2SD234-Y	2020	2SD292C	2020	2SD218	2020	2SD359	2020
2SD172F	2041	2SD183OR	2030	2SD205X	2030	2SD234-YEL	2020	2SD292D	2020	2SD218-O	2020	2SD359C	2020
2SD172G	2041	2SD183R	2030	2SD205Y	2030	2SD234A	2020	2SD292E	2020	2SD218A	2020	2SD359C2	2020
2SD172GN	2041	2SD184	2020	2SD207	2041	2SD234B	2020	2SD292F	2020	2SD218B	2020	2SD359D	2020
2SD172H	2041	2SD184A	2020	2SD207A	2041	2SD234C	2020	2SD292G	2020	2SD218P	2020	2SD359D2	2020
2SD172J	2041	2SD184B	2020	2SD211	2041	2SD234D	2020	2SD292GA	2020	2SD218Q	2020	2SD360	2020
2SD172K	2041	2SD184C	2020	2SD211-OR	2041	2SD234E	2020	2SD292GN	2020	2SD218Q	2041	2SD360	2020
2SD172L	2041	2SD184D	2020	2SD217A	2041	2SD234F	2020	2SD292H	2020	2SD218Q	2041	2SD360	2020
2SD172M	2041	2SD184E	2020	2SD217B	2041	2SD234G	2020	2SD292I	2020	2SD218Q	2041	2SD360	2020
2SD172OR	2041	2SD184F	2020	2SD217C	2041	2SD234G-A	2020	2SD292J	2020	2SD218Q	2041	2SD360	2020
2SD172R	2041	2SD184H	2020	2SD217D	2041	2SD234GH	2020	2SD292K	2020	2SD218Q	2041	2SD360	2020
2SD172X	2041	2SD184J	2020	2SD217E	2041	2SD234G-O	2020	2SD292M	2020	2SD218Q	2041	2SD360	2020
2SD172Y	2041	2SD184K	2020	2SD217F	2041	2SD234G-R	2020	2SD292OR	2020	2SD218Q	2041	2SD360	2020
2SD174	2041	2SD184L	2020	2SD217G	2041	2SD234GR	2020	2SD292R	2020	2SD218Q	2041	2SD360	2020
2SD174A	2041	2SD184M	2020	2SD217GN	2041	2SD234G-Y	2020	2SD292X	2020	2SD218Q	2041	2SD360	2020
2SD174B	2041	2SD184OR	2020	2SD217H	2041	2SD234H	2020	2SD292Y	2020	2SD218Q	2041	2SD360	2020
2SD174C	2041	2SD184R	2020	2SD217J	2041	2SD234J	2020	2SD312	2055	2SD218Q	2041	2SD360	2020
2SD174D	2041	2SD184T	2020	2SD217K	2041	2SD234K	2020	2SD312A	2055	2SD218Q	2041	2SD360	2020
2SD174E	2041	2SD184U	2020	2SD217L	2041	2SD234L	2020	2SD312B	2055	2SD218Q	2041	2SD360	2020
2SD174F	2041	2SD184V	2020	2SD217M	2041	2SD234M	2020	2SD312C	2055	2SD218Q	2041	2SD360	2020
2SD174G	2041	2SD184W	2020	2SD217N	2041	2SD234N	2020	2SD312D	2055	2SD218Q	2041	2SD360	2020
2SD174H	2041	2SD184X	2020	2SD217O	2041	2SD234O	2020	2SD312E	2055	2SD218Q	2041	2SD360	2020
2SD174J	2041	2SD184Y	2020	2SD217P	2041	2SD234P	2020	2SD312F	2055	2SD218Q	2041	2SD360	2020
2SD174K	2041	2SD184Z	2020	2SD217Q	2041	2SD234Q	2020	2SD312G	2055	2SD218Q	2041	2SD360	2020
2SD174L	2041	2SD188F	2041	2SD212	2041	2SD234X	2020	2SD312GN	2055	2SD218Q	2041	2SD360	2020
2SD174M	2041	2SD188G	2041	2SD213	2041	2SD234Y	2020	2SD312H	2055	2SD218Q	2041	2SD360	2020
2SD174N	2041	2SD188GN	2041	2SD214	2041	2SD235	2020	2SD312J	2055	2SD218Q	2041	2SD360	2020
2SD174R	2041	2SD188H	2041	2SD215	2041	2SD235(O)	2020	2SD312K	2055	2SD218Q	2041	2SD360	2020
2SD174S	2041	2SD188I	2041	2SD216	2041	2SD235(R)	2020	2SD312L	2055	2SD218Q	2041	2SD360	2020
2SD174T	2041	2SD188L	2041	2SD217	2041	2SD235(Y)	2020	2SD312M	2055	2SD218Q	2041	2SD360	2020
2SD174U	2041	2SD188M	2041	2SD218	2041	2SD235-O	2020	2SD312N	2055	2SD218Q	2041	2SD360	2020
2SD174V	2041	2SD188OR	2041	2SD219C	2030	2SD235-O	2020	2SD312P	2055	2SD218Q	2041	2SD360	2020
2SD174W	2041	2SD188R	2041	2SD219E	2030	2SD235-OR	2020	2SD312Q	2055	2SD218Q	2041	2SD360	2020
2SD174X	2041	2SD188S	2041	2SD219D	2030	2SD235-ORG	2020	2SD313(D)	2020	2SD218Q	2041	2SD360	2020
2SD174Y	2041	2SD188T	2041	2SD219F	2030	2SD235-R	2020	2SD313(D,E)	2020	2SD218Q	2041	2SD360	2020
2SD175	2041	2SD188Y	2041	2SD219E	2030	2SD235-RED	2020	2SD313(D,E)	2020	2SD218Q	2041	2SD360	2020
2SD175A	2041	2SD189	2041	2SD219F	2030	2SD235-YEL	2020	2SD313(E)	2020	2SD218Q	2041	2SD360	2020
2SD175B	2041	2SD189A	2041	2SD219G	2030	2SD235-YEL	2020	2SD313(F)	2020	2SD218Q	2041	2SD360	2020
2SD175C	2041	2SD189B	2041	2SD219GN	2030	2SD235-Y JA	2020	2SD313A	2020	2SD218Q	2041	2SD360	2020
2SD175D	2041	2SD189C	2041	2SD219H	2030	2SD235A	2020	2SD313B	2020	2SD218Q	2041	2SD360	2020
2SD175E	2041	2SD189D	2041	2SD219I	2030	2SD235B	2020	2SD313C	2020	2SD218Q	2041	2SD360	2020
2SD175F	2041	2SD189E	2041	2SD219J	2030	2SD235C	2020	2SD313D	2020	2SD218Q	2041	2SD360	2020
2SD175G	2041	2SD189F	2041	2SD219K	2030	2SD235D	2020	2SD313E	2020	2SD218Q	2041	2SD360	2020
2SD175H	2041	2SD189G	2041	2SD219L	2030	2SD235E	2020	2SD313F	2020	2SD218Q	2041	2SD360	2020
2SD175I	2041	2SD189GN	2041	2SD219M	2030	2SD235F	2020	2SD313G	2020	2SD218Q	2041	2SD360	2020
2SD175J	2041	2SD189H	2041	2SD219N	2030	2SD235G	2020	2SD313H	2020	2SD218Q	2041	2SD360	2020
2SD175K	2041	2SD189I	2041	2SD219OR	2030	2SD235GN	2020	2SD313I	2020	2SD218Q	2041	2SD360	2020
2SD175L	2041	2SD189J	2041	2SD219R	2030	2SD235O	2020	2SD313J	2020	2SD218Q	2041	2SD360	2020
2SD175M	2041	2SD189K	2041	2SD219S	2030	2SD235R	2020	2SD313K	2020	2SD218Q	2041	2SD360	2020
2SD175OR	2041	2SD189L	2041	2SD219T	2030	2SD235S	2020	2SD313L	2020	2SD218Q	2041	2SD360	2020
2SD175R	2041	2SD189M	2041	2SD219U	2030	2SD235T	2020	2SD313M	2020	2SD218Q	2041	2SD360	2020
2SD175X	2041	2SD189N	2041	2SD219V	2030	2SD235U	2020	2SD313N	2020	2SD218Q	2041	2SD360	2020
2SD175Y	2041	2SD189O	2041	2SD219W	2030	2SD235V	2020	2SD313O	2020	2SD218Q	2041	2SD360	2020
2SD175Z	2041	2SD189P	2041	2SD219X	2030	2SD235W	2020	2SD313P	2020	2SD218Q	2041	2SD360	2020
2SD180	2041	2SD199	2055	2SD220E	2030	2SD235X	2020	2SD313Q	2020	2SD218Q	2041	2SD360	2020
2SD180F	2041	2SD204	2030	2SD220F	2030	2SD235Y	2020	2SD313R	2020	2SD218Q	2041	2SD360	2020
2SD180G	2041	2SD204(L)	2030	2SD220G	2030	2SD235Z	2020	2SD313S	2020	2SD218Q	2041	2SD360	2020
2SD180GN	2041	2SD204A	2030	2SD220GN	2030	2SD235A	2020	2SD313T	2020	2SD218Q	2041	2SD360	2020
2SD180H	2041	2SD204B	2030	2SD220H	2030	2SD235B	2020	2SD313U	2020	2SD218Q	2041	2SD360	2020
2SD180I	2041	2SD204C	2030	2SD220I	2030	2SD235C	2020	2SD313V	2020	2SD218Q	2041	2SD360	2020
2SD180J	2041	2SD204D	2030	2SD220J	2030	2SD235D	2020	2SD313W	2020	2SD218Q	2041	2SD360	2020
2SD180K	2041	2SD204E	2030	2SD220K	2030	2SD235E	2020</						

ARCHER SEMICONDUCTOR REPLACEMENT GUIDE

DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SD409	2068	2SD636-Q.R	2009	2SD704E	2020	2SD864K	2068	2SD1274B	2068	2SK178	2038	2SK43C	2035
2SD414	2035	2SD636-R	2009	2SD721	2068	2SD866	2020	2SD1276LB	2068	2SK177	2035	2SK43D	2035
2SD418	2033	2SD636-R.S.T	2009	2SD723	2020	2SD866(P)	2020	2SD1276P	2068	2SK179	2035	2SK43E	2035
2SD419	2068	2SD636-S	2009	2SD725	2055	2SD866(Q)	2020	2SD1276PLB	2068	2SK179(BL)	2035	2SK43F	2035
2SD425	2041	2SD636P	2009	2SD725-06	2055	2SD866A	2020	2SD1277	2068	2SK179(GM)	2035	2SK43H	2035
2SD425-O	2041	2SD636Q	2009	2SD726	2020	2SD866B	2020	2SD1277B	2068	2SK179(GR)	2035	2SK43J	2035
2SD425-R	2041	2SD636QR	2009	2SD734	2009	2SD866D	2020	2SD1277BP	2068	2SK19-14	2035	2SK43K	2035
2SD426	2041	2SD636QRS	2009	2SD734(F)	2009	2SD866P	2020	2SD1279	2055	2SK19-BL	2035	2SK43L	2035
2SD426-O	2041	2SD636R	2009	2SD734(G)	2009	2SD866Q	2020	2SD1279FA	2055	2SK19-GR	2035	2SK43M	2035
2SD426-R	2041	2SD636RS	2009	2SD734-NP	2009	2SD866R	2020	2SD1318	2030	2SK19-Y	2035	2SK43OR	2035
2SD427	2041	2SD636S	2009	2SD734E	2009	2SD867	2041	2SD1345	2070	2SK19A	2035	2SK43R	2035
2SD427-O	2041	2SD636T	2009	2SD734F	2009	2SD878	2041	2SD1363-Y	2020	2SK19B	2035	2SK43S	2035
2SD427-R	2041	2SD637	2016	2SD734G	2009	2SD880	2020	2SD1406	2020	2SK19BB	2036	2SK43X	2035
2SD430	2068	2SD637(C)	2016	2SD743	2020	2SD880-O	2020	2SD1406-Y	2020	2SK19BL	2036	2SK43Y	2035
2SD447	2009	2SD637(CR)	2016	2SD743A	2020	2SD880-OLBGL2	2020	2SD1406GR	2020	2SK19FB	2036	2SK44	2035
2SD467-C	2009	2SD637(Q)	2016	2SD743R	2020	2SD880-Y	2020	2SD1406Y	2020	2SK19GB	2035	2SK44C	2035
2SD467B	2009	2SD637(R)	2016	2SD762	2020	2SD880GR	2020	2SD1510	2068	2SK19GE	2035	2SK44D	2035
2SD467BC	2009	2SD637(S)	2016	2SD762-O	2020	2SD880Y	2020	2SD1558	2068	2SK19GR	2035	2SK47	2062
2SD467C	2009	2SD637(T)	2016	2SD762-OP	2020	2SD880YLBGL2	2020	2SD1894	2055	2SK19H	2035	2SK49	2035
2SD469	2041	2SD637-O	2016	2SD762-P	2020	2SD886	2020	2SD2340	2020	2SK19K	2035	2SK49E2	2035
2SD474K	2016	2SD637-P	2016	2SD762OP	2020	2SD886A	2020	2SD2350	2020	2SK19V	2035	2SK49F	2035
2SD473	2020	2SD637-PQR	2016	2SD762OPLB	2020	2SD886F	2020	2SDU84GM	2030	2SK19Y	2035	2SK49H	2035
2SD475A	2020	2SD637-Q	2016	2SD762P	2020	2SD886P	2020	2SE629	2016	2SK22Y	2035	2SK49H1	2035
2SD474	2020	2SD637-QR	2016	2SD762Q	2020	2SD886Q	2020	2SF4002	2016	2SK23	2035	2SK49H2	2035
2SD474A	2020	2SD637-QRS	2016	2SD767(R)	2009	2SD889	2016	2SF41F	2035	2SK23A	2035	2SK49I	2035
2SD476AMB	2020	2SD637-R	2016	2SD767(S)	2009	2SD889Q	2016	2SF101	1067	2SK23A(812)	2035	2SK49M	2035
2SD476ANC	2020	2SD637-RS	2016	2SD767R	2009	2SD889R	2016	2SF101B	1067	2SK24	2035	2SK49N	2035
2SD476B	2020	2SD637-S	2016	2SD767S	2009	2SD889T	2016	2SF102	1067	2SK24C	2035	2SK49P	2035
2SD476C	2020	2SD637C	2016	2SD778	2009	2SD918	2009	2SF102A	1067	2SK24D	2035	2SK49Q	2035
2SD476D	2020	2SD637CR	2016	2SD778Q	2009	2SD919	2009	2SF102B	1067	2SK24DR	2035	2SK49R	2035
2SD476G	2020	2SD637O	2016	2SD778R	2009	2SD959LB	2020	2SF103	1067	2SK24E	2035	2SK49S	2035
2SD476KB	2020	2SD637P	2016	2SD783	2055	2SD959Q	2020	2SF104	1067	2SK24F	2035	2SK49T	2035
2SD476KC	2020	2SD637PQ	2016	2SD792	2055	2SD960	2020	2SF104A	1067	2SK24G	2035	2SK49U	2035
2SD476O	2020	2SD637PQR	2016	2SD792S	2055	2SD969	2020	2SF104B	1067	2SK25	2035	2SK49V	2035
2SD476YL	2020	2SD637PR	2016	2SD792T	2055	2SD1010	2016	2SF105	1020	2SK25C	2035	2SK49W	2035
2SD477	2020	2SD637Q	2016	2SD804	2020	2SD1010S	2016	2SF106	1020	2SK25D	2035	2SK49X	2035
2SD492	2041	2SD637QR	2016	2SD804H	2020	2SD1012	2009	2SF106A	1020	2SK25E	2035	2SK49Y	2035
2SD517	2055	2SD637QRS	2016	2SD804HLB	2020	2SD1012F	2009	2SF106B	1020	2SK25ET	2035	2SK49Z	2035
2SD522	2041	2SD637R	2016	2SD804HP	2020	2SD1012G1	2009	2SF108	1020	2SK25F	2035	2SK49AA	2035
2SD525	2020	2SD637RS	2016	2SD807	2055	2SD1022	2068	2SD108A	1020	2SK25G	2035	2SK49AB	2035
2SD525-O	2020	2SD637RST	2016	2SD807M	2055	2SD1024	2068	2SF108B	1020	2SK31(C)	2035	2SK49AC	2035
2SD525-Y	2020	2SD637S	2016	2SD820	2055	2SD1044A	2068	2SF229	1067	2SK31C	2035	2SK49AD	2035
2SD525Z	2020	2SD637ST	2016	2SD820FA-1	2055	2SD1060K	2041	2SF248T	2020	2SK32	2035	2SK49AE	2035
2SD527Y	2020	2SD637T	2016	2SD821	2055	2SD1061	2020	2SF357	1067	2SK32B	2035	2SK49AF	2035
2SD528	2020	2SD638	2030	2SD822	2055	2SD1098-42M	2017	2SF591	1067	2SK33	2035	2SK49AG	2035
2SD526(O)	2020	2SD638(Q)	2030	2SD822P	2055	2SD1131B	2020	2SF522	1067	2SK33D	2035	2SK49AH	2035
2SD526-O	2020	2SD638(R)	2030	2SD822Q	2055	2SD1131C	2020	2SF523	1067	2SK33E	2035	2SK49AI	2035
2SD531	2020	2SD638(S)	2030	2SD836	2068	2SD1131D	2020	2SF524	1020	2SK33F	2035	2SK49AJ	2035
2SD544	2020	2SD638-R	2030	2SD836A	2068	2SD1132B	2020	2SF525	1020	2SK33H	2035	2SK49AK	2035
2SD560	2068	2SD638-RS	2030	2SD836Q	2068	2SD1132C	2020	2SF656	1067	2SK35	2035	2SK49AL	2035
2SD568(K)	2020	2SD638-S	2009	2SD836R	2068	2SD1132D	2020	2SF656ZS	1067	2SK35-0	2035	2SK49AM	2035
2SD570	2020	2SD638P	2030	2SD837	2068	2SD1133B	2020	2SF657	1067	2SK35-1	2035	2SK49AN	2035
2SD575	2055	2SD638Q	2030	2SD837A	2068	2SD1133C	2020	2SF658	1067	2SK35-2	2035	2SK49AO	2035
2SD575L	2055	2SD638QR	2030	2SD837AB	2068	2SD1133D	2020	2SF664	1067	2SK35A	2035	2SK49AP	2035
2SD577	2055	2SD638QRS	2030	2SD837AD	2068	2SD1134	2020	2SF664S	1067	2SK35BL	2035	2SK49AQ	2035
2SD581	2041	2SD638R	2030	2SD837AQ	2068	2SD1134-C	2020	2SF674S	1067	2SK35C	2035	2SK49AR	2035
2SD581A	2041	2SD638RS	2030	2SD837AR	2068	2SD1134C	2020	2SF676S	1067	2SK35GN	2035	2SK49AS	2035
2SD582	2041	2SD638S	2030	2SD837B	2068	2SD1135	2020	2SF941	1067	2SK35R	2035	2SK49AT	2035
2SD582A	2041	2SD639	2030	2SD837LB	2068	2SD1186	2055	2SF942	1067	2SK35Y	2035	2SK49AU	2035
2SD589	2055	2SD639(Q)	2030	2SD837O	2068	2SD1199-R	2016	2SF1110	1067	2SK37	2035	2SK49AV	2035
2SD590	2030	2SD639(R)	2030	2SD837P	2068	2SD1206(Q)	2016	2SF1111	1067	2SK37(K)	2035	2SK49AW	2035
2SD591	2016	2SD639(S)	2030	2SD837Q	2068	2SD1206(R)	2016	2SF1112	1067	2SK37H	2035	2SK49AX	2035
2SD591R	2016	2SD639P	2030	2SD837R	2068	2SD1206(S)	2016	2SF1113	1020	2SK40	2035	2SK49AY	2062
2SD592	2009	2SD639Q	2030	2SD843	2020	2SD1206Q	2016	2SF1114	1020	2SK40(C)	2035	2SK49AZ	2035
2SD592ANC	2009	2SD639QR	2030	2SD843(Y)	2020	2SD1206R	2016	2SFD111	1123	2SK40-3	2035	2SK49BA	2035
2SD592NC	2009	2SD639R	2030	2SD849	2055	2SD1228M	2009	2SG536GN	1617	2SK40A	2035	2SK49BB	2035
2SD592R	2009	2SD639S	2030	2SD856	2020	2SD1265-0	2016	2SJ2A	1104	2SK40B	2035	2SK49BC	2035
2SD599	2016	2SD639T	2030	2SD856(P)	2020	2SD1266	2020	2SJ4A	1104	2SK40C	2035	2SK49BD	2035
2SD603	2009	2SD649	2055	2SD856(Q)	2020	2SD1266(P)	2020	2SJ8A	1114	2SK40D	2035	2SK49BE	2035
2SD613	2020	2SD649Q	2055	2SD856(R)	2020	2SD1266(Q)	2020	2SJ11	2035	2SK41	2035	2SK49BF	2035
2SD613(D)	2020	2SD654	2030	2SD856A	2020	2SD1266(R)	2020	2SJ12	2035	2SK41C	2035	2SK49BG	2035
2SD613(E)	2020	2SD661	2016	2SD856B	2020	2SD1266-PQ	2020	2SJ60A	1104	2SK41D	2035	2SK49BH	2035
2SD613E	2020	2SD661(R)	2016	2SD856L	2020	2SD1266LB(P)	2020	2SK25ET	2035	2SK41E	2035	2SK49BI	2035
2SD613P	2020	2SD661(S)	2016	2SD856LB	2020	2SD1266LB(Q)	2020	2SK11	2035	2SK41E1	2035	2SK49BJ	2035
2SD633	2068	2SD661(T)	2016	2SD856M	2020	2SD1266LBPQ	2020	2SK12	2035	2SK41F	2035	2SK49BK	2062
2SD634	2068	2SD661-R	2016	2SD856M(LB)	2020	2SD1266P	2020	2SK13	2035	2SK42	2035	2SK49BL	2035
2SD635	2068	2SD661RS	2016	2SD856MLB	2020	2SD1266PQ	2020	2SK15	2035	2SK42-CM1	2035	2SK49BM	2035
2SD636	2009	2SD661S	2016	2SD856O	2020	2SD1266PQR	2020	2SK16HA	2035	2SK42-CM1	2035	2SK49BN	2035
2SD636(Q)	2009	2SD661ST	2016	2SD856P	2020	2SD1266Q	2020	2SK17	2035	2SK43	2035	2SK49BO	2035
2SD636(R)	2009	2SD661T	2016	2SD856PQR	2020	2SD1276	2068	2SK17(O)	2035	2SK43(03)	2035	2SK49BP	2035
2SD636(R.S.T)	2009	2SD664	2068	2SD856Q	2020	2SD1276(LB)	2068	2SK17-O	2035	2SK43(12)	2035	2SK49BQ	2062
2SD636(S)	2009	2SD671	2009	2SD856Q(LB)	2020	2SD1276-AP	2068	2SK17-OR	2035	2SK43(3A)	2035	2SK49BR	2062
2SD636(T)	2009	2SD686	2068	2SD856R	2020	2SD1276-LB	2068	2SK17A	2035	2SK43-3A	2035	2SK49BS	2062
2SD636-O	2009	2SD687	2068	2SD856S	2020	2SD1276A	2068	2SK17B	2035	2SK43-4	2035	2SK49BT	2062
2SD636-O	2009	2SD691	2068	2SD857	2020	2SD1276A(LB)P	2068	2SK17BL	2035	2SK43-O	2035	2SK49BU	2035
2SD636													

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
25M610B	2023	3A700	1114	3L4-3003-4	1123	3N118	2023	4-443	2016	4-686149-3	1104	4H1304-1025	2058
25N733	2009	3A700FS	1114	3L4-3003-7	1123	3N119	2023	4-880	2016	4-686169-3	2016	4H1304-4104	2023
25N841	2013	3A890	1114	3L4-3001-1	1122	3N120	2016	4-851	1617	4-686171-3	2016	4H1304-1121	2009
25O12	2020	3A800FS	1114	3L4-3001-5	1104	3N121	2016	4-852	1123	4-686172-3	2016	4H1304-4154	2058
25O14	2016	3A900	1114	3L4-3001-7	1122	3N123	2023	4-853	1123	4-686173-3	1617	4H1304-4196	2058
25O33	2041	3A900FS	1114	3L4-3001-8	1104	3N127	2016	4-854	1123	4-686179-3	1114	4H1304-4358	2023
25O34	2041	3A1000	1114	3L4-3002-7	1122	3N129	2023	4-855	1123	4-686182-3	2030	4H13030621	1122
25O35	2041	3A1000FS	1114	3L4-3002-10	1122	3N130	2023	4-857	1123	4-686183-3	1617	4H13030847	1122
25O36	2041	3A1510	1114	3L4-3002-13	1103	3N131	2023	4-882	1123	4-686184-3	1114	4H13030862	562
25O95A	2009	3A2510	1114	3L4-3002-20	1122	3N132	2023	4-1544	2016	4-686186-3	1114	4H13030983	1122
25P405	2030	3AF2	1114	3L4-3002-25	1122	3N133	2023	4-1545	1617	4-686189-3	1114	4H13030984	1121
25Q371	2016	3AF4	1144	3L4-3002-30	1104	3N134	2023	4-1724	1122	4-686199-3	1114	4H13031168	1114
25R05K	1104	3AS1	1104	3L4-3002-31	1122	3N135	2023	4-1726	1122	4-686201-3	1114	4H13031173	1114
25R1K	1104	3AS2	1104	3L4-3002-32	1122	3N136	2023	4-1790	1617	4-686207-3	2016	4H13031174	1102
25R24	2025	3BB-20B01	1171	3L4-3002-33	1122	3N246	1171	4-1791	2016	4-686208-3	2016	4H13034167	381
25R54	2030	3BB-20B01	1104	3L4-3506-29	564	3N247	1171	4-1807	1104	4-686209-3	2016	4H13040938	2009
25R68AM	2035	3BH61	1114	3L4-3506-31	565	3N249	1173	4-2020	1123	4-686212-3	1114	4H13040938(,BC548B)	
25R173	2030	3BS1	1104	3L4-5007-3	2016	3N253	1171	4-2020-03173	1104	4-686224-3	2016		2009
2T15X3	2016	3BS2	1104	3L4-6001-01	2041	3N256	1173	4-2020-03200	1104	4-686228-3	2016	4H13040941	2023
2T40	2009	3BZ-61	1114	3L4-6007-2	1617	3N261	1114	4-2020-03500	1123	4-686231-3	1617	4H13040995	2027
2T1	2009	3BZ61	1114	3L4-6007-3	2016	3P1MH	1067	4-2020-03571	1123	4-686234-3	2020	4H13044196	2059
2T42	2009	3C6030	1067	3L4-6007-10	2016	3P2MH	1020	4-2020-03900	1114	4-686244-3	2016	4H13044197	2023
2T43	2009	3C4100	1067	3L4-6007-11	2016	3P4MH	1020	4-2020-05200	1104	4-686251-3	2016	4H13044358	2022
2T44	2009	3CS1	1104	3L4-6007-12	2016	3RC25	1020	4-2020-05600	1123	4-686257-3	1617	4H13044503	2009
2T172	2009	3C32	1104	3L4-6007-13	2016	3RC30	1020	4-2020-05800	1122	4-3022861	2016	4I29200602	1123
2T202	2009	3DD10	1114	3L4-6007-14	2016	3RC30A	1020	4-2020-06100	1122	4-3023212	1617	4J24X539	563
2T402	1617	3DH61	1114	3L4-6007-15	2016	3RL30A	1020	4-2020-06200	1122	4-3023221	1617	4JA2FX355	1104
2T403	2009	3DL2	1104	3L4-6007-20	2016	3S004	1617	4-2020-06400	1122	4-3023223	2030	4JA2X355	1104
2T404	2009	3DL4C	1104	3L4-6007-21	2016	3S05E	1141	4-2020-06800	1104	4-3023843	2041	4JA4DR700	1104
2T501	1104	3DS1	1104	3L4-6007-22	2016	3S1E	1143	4-2020-07300	1104	4-3023844	2030	4JA4DX520	1104
2T502	1104	3DS2	1104	3L4-6007-23	2016	3S2E	1143	4-2020-07500	561	4-3025763	2016	4JA6MR700	1104
2T503	1104	3DS3	1114	3L4-6007-34	2023	3S3E	1144	4-2020-07600	1104	4-3025764	2016	4JA10DX3	1104
2T504	1104	3DZ61	1114	3L4-6007-35	2016	3S4E	1144	4-2020-07601	1104	4-3025765	2016	4JA10DX32	1104
2T505	1104	3E05	1141	3L4-6007-41	2016	3S4M	1020	4-2020-07700	1104	4-3025766	1617	4JA10EX3	1104
2T506	1104	3E-1	1617	3L4-6007-51	2058	3S4M/LB	1020	4-2020-08001	1122	4-3025767	2016	4JA16MR700M	1114
2T507	1114	3E-2	1617	3L4-6010-1	2020	3S4M/LB1E	1020	4-2020-08200	1122	4-3540012	1104	4JA211A	1104
2T508	1114	3E2	1143	3L4-6010-3	2009	3S4M/LB1E	1020	4-2020-08500	1104	4-202003571	1123	4JX1E596	1617
2T509	1114	3E-3	1617	3L4-6010-6	2030	3S30B	2035	4-2020-08600	1123	4-202104170	1104	4JX7A972	1617
2T510	1114	3E-4	1123	3L4-6011-1	2020	3S105	1114	4-2020-08900	1104	4-202104970	1122	4JX11C2848	2030
2T918	2009	3E-64	1104	3L4-6011-9	2027	3SB629	1104	4-2020-10100	1122	4-2020035000	1123	4JX16A567	1617
2T919	2016	3E-65	1104	3L4-6011-11	2027	3SK23	2035	4-2020-10500	1104	4-AAZ10	1123	4JX16A667	1617
2T2708	2009	3E11	1104	3L4-6011-12	2027	3SK30	2035	4-2020-12400	563	4AJ4DX52D	1104	4JX16A667G	2009
2T2785	2009	3E52	1104	3L4-6011-14	2027	3SK30A	2035	4-2020-14500	1104	4AJ4DX52D	1104	4JX16A667H	2009
2T2857	2009	3F10(SCR)	1067	3L4-6012-2	2020	3SK30B	2035	4-2020-15600	1122	4C20	2030	4JX16A667I	2009
2U4	1104	3F40(SCR)	1067	3L4-6012-3	2020	3SK30C	2035	4-2021-04170	1171	4C29	2030	4JX16A667Y	2009
2U8	1104	3F100(SCR)	1067	3L4-6012-5	2020	3SK34C	2035	4-2021-04470	1114	4C30	2030	4JX16A667G	1617
2U12	1104	3F150	1067	3L4-6012-6	2020	3SM4	1020	4-2021-04770	1114	4C31	2030	4JX16A667O	1617
2W005	1173	3F150(SCR)	1067	3L4-6012-8	2020	3SS4M	1020	4-2021-04970	1104	4C43	2009	4JX16A667R	1617
2W01	1173	3F200	1067	3L4-6012-55	2017	3T501	1104	4-2021-05000	1122	4D4	1104	4JX16A667Y	1617
2W02	1173	3F200(SCR)	1067	3L4-6012-56	2020	3T502	1104	4-2021-05870	1123	4D6	1104	4JX16A668	1617
2W04	1173	3FM850R	1067	3L4-6012-58	2020	3T503	1104	4-2021-07470	1122	4D8	1104	4JX16A668/G	2009
2W2A	1104	3P51	1104	3L4-6013-6	2027	3T504	1104	4-2021-07670	1122	4D20	1617	4JX16A668/O	2009
2W4A	1104	3P52	1104	3L4-6013-15	2027	3T505	1104	4-2021-08270	1104	4D21	1617	4JX16A668/Y	2009
2W5A	1104	3G2	2062	3L4-9020-1	703	3T506	1104	4-2021-09370	1114	4D22	1617	4JX16A668O	1617
2W6A	1114	3G6	1104	3L1030	1067	3T507	1104	4-2021-10270	1104	4D24	1617	4JX16A668O	2009
2W7A	1114	3G152	1104	3L2015	1067	3T508	1114	4-2021-10470	1104	4D25	1617	4JX16A668Y	2009
2W9A	1114	3G154	1104	3L46007-1	2009	3T509	1114	4-2029-70860	1122	4D26	1617	4JX16A669	1617
2X9A116	1104	3G156	1104	3L46007-2	2009	3T510	1114	4-2029-71590	1122	4G8	1114	4JX16A669G	1617
2XAA111	1123	3G158	1114	3LH61	1114	3TCRF	1020	4-2039-70380	2016	4GA	1104	4JX16A669Y	1617
2XAA112	1123	3G252	1104	3MS5	1104	3TCRG	1020	4-2039-70431	2009	4H-130-30302	1122	4JX-6A670	1617
2XAA113	1123	3G254	1104	3MS10	1104	3TE120	2041	4-2040-08000	1122	4H-130-30312	1123	4JX-6A670G	1617
2XAA119	1123	3G256	1104	3MS20	1104	3TE140	2041	4-3033	1104	4H-130-30702	1122	4JX16A667O	2009
3-1477	1144	3G258	1114	3MS30	1104	3TE220	2055	4-3034	1122	4H-130-30862	562	4JX16A668O	1617
3A1	1114	3G1510	1114	3MS40	1104	3TE230	2041	4-5145	1617	4H-130-30869	1123	4JX16B670E	2009
3A15	1141	3G2510	1114	3MS50	1104	3TE240	2041	4-68682-3	1617	4H-130-31012	1123	4JX16B670Y	2009
3A30	1141	3GA	1104	3N35	1617	3TH62	1114	4-68689-3	1114	4H-130-31438	1101	4JX16B670/Y	2009
3A50	1114	3GH61	1114	3N71	2016	3TX002	2055	4-68695-3	2016	4H-130-40936	2009	4JX16B670B	1617
3A50FS	1114	3GS1	1104	3N72	2016	3TX003	2041	4-68697-3	1114	4H-130-40937	2009	4JX16B670G	1617
3A100	1114	3GS2	1104	3N73	2016	3TX004	2041	4-684120-3	2016	4H-130-40937(,1402C)	2016	4JX16B670R	1617
3A100FS	1114	3GZ61	1114	3N74	2016	3X11/1	1104	4-685285-3	2016	2009	4JX16B670Y	1617	
3A152	1104	3HS1	1104	3N75	2016	3.3B1	1101	4-686105-3	1114	4H-130-40937(,BC548B)	4JX16E3860	1617	
3A154	1104	3HS2	1104	3N76	2016	4-12-1A7-1	1617	4-686106-3	1114	2009	4JX16E3890	1617	
3A156	1104	3J15	1067	3N77	2016	4-46	2016	4-686107-3	2016	4H-130-41356	2016	4JX16E3960	1617
3A158	1114	3J30	1067	3N78	2016	4-47	2009	4-686108-3	2016	4H-130-41395	2023	4JX24X539	563
3A-200	1114	3J60	1067	3N79	2016	4.47(SEARS)	1617	4-686112-3	2016	4H-130-41461	2016	4JX29A826	2023
3A200	1104	3J100	1067	3N87	2016	4-50	1104	4-686114-3	2016	4H-130-44121	2009	4JX29A829	2023
3A200FS	1114	3JH-61	1104	3N88	2016	4-202A16	1123	4-686118-3	2016	4H-130-44196	2009	4JZ4X539	563
3A252	1104	3JH61	1104	3N90	2023	4-202R101	2016	4-686119-3	2016	4H-130-44196(,BC548C)	4JZ4XL12	563	
3A254	1104	3K15	1067	3N91	2023	4-203-5100-69372	2016	4-686120-3	2016	2009	4K30	1067	
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	
41502	1104	SJ-F1	1104	6M404-7	1104	7-5853A	1000	8-719-102-73	561	8-724-034-00	2009	8-729-902-11	2016	
41503	1104	5M10	1114	6R551GX12	1101	7-5853B	1000	8-719-102-74	561	8-724-375-01	2009	8-729-965-22	2009	
41504	1104	5MA2	1104	6RW62HY	1104	7-6006-00	1143	8-719-102-88	562	8-725-800-00	2058	8-729-965-22	25C1652	
41505	1104	5MA4	1104	6X97047A01	1617	7-2585301-01	1000	8-719-103-09	564	8-725-923-00	2058	Q	2009	
41506	1104	5MA4D	1104	6X97174A01	1122	7-2585301-02	1000	8-719-103-11	564	8-726-357-10	2009	8-729-978-62	2023	
41507	1114	5MA5	1104	6X97174XA08	1122	7-2585303	1000	8-719-109-85	565	8-726-368-10	2009	8-729-993-72	2023	
41508	1114	5MA6	1104	6.28	561	7A30	2016	8-719-110-31	563	8-726-388-00	2009	8-729-37501	2009	
41509	1114	5MA8	1114	6.281	561	7A30(GE)	2030	8-719-112-01	563	8-727-786-00	2023	8-759-112-38	703	
41510	1114	5MA10	1114	6.281(1WATT)	561	7A30(SHERWOOD)	1617	8-719-112-07	563	8-727-786-01	2023	8-759-132-40	1711	
4W01-13	563	5MF1	1104	6.282	561	7A31	2016	8-719-112-24	563	8-729-104-33	2020	8-759-140-01	2401	
4.7B1	565	5MS5	1104	6.283	561	7A31(GE)	2030	8-719-112-25	563	8-729-108-53	2009	8-759-140-11	2411	
4.7B2	565	5MS10	1104	6.2E83	561	7A31(SHERWOOD)	1617	8-719-151-07	565	8-729-117-54	2023	8-759-145-58	030	
4.7X	565	5MS20	1104	6.2N1	561	7A32	2016	8-719-151-77	565	8-729-117-54(,25A1175)	2023	8-759-240-01	2401	
4.7Z	561	5MS30	1104	6.2N2	561	7A32(GE)	2030	8-719-160-24	565	8-729-167-42(,25C1674-	2023	8-759-240-11	2411	
5.0	1617	5MS40	1104	6.2Y	561	7A32(SHERWOOD)	2030	8-719-160-44	562	8-729-117-63	2009	8-759-240-13	2413	
5-30082.3	1114	5MS50	1104	6.2Z	561	7A35(GE)	2030	8-719-162-07	561	8-729-118-76	2055	8-759-240-49	2449	
5-30082.4	1114	5N1	1104	7.0002	1104	7A995	2030	8-719-200-01	1104	8-729-167-42	2016	8-759-272-15	1114	
5-30086.1	1104	5O	1123	7.0003	1171	7A995(GE)	2030	8-719-200-02	1104	8-729-167-42(,25C1674-	2016	8-759-903-86	1731	
5-30088.1	1104	5P-01	1104	7.0004	1104	7A995(SHERWOOD)	2030	8-719-200-10	1104	M	2016	8-761-622-00	2016	
5-30088.3	1114	5.1	565	7.0005	1123	2030	2030	8-719-205-10	1104	8-729-173-37	2023	8-765-401-00	2016	
5-30094.1	1104	5.1B	565	7.0006	1123	7A1011	2030	8-719-210-10	1114	8-729-178-54	2009	8-765-422-06	2035	
5-30094.3	1104	5.1B1	565	7.0008	1104	7A1011(GE)	2030	8-719-300-38	1104	8-729-178-54(,25C2785)	2009	8-765-423-00	2035	
5-30094.5	1104	5.1B2	565	7.0013	1122	7A1011(SHERWOOD)	2030	8-719-300-38(,GU-3A)	2009	8-729-178-56	2009	8-765-424-00	2035	
5-30094.7	1104	5.1B2.1	565	7.0014	2017	2030	2030	8-719-300-45	1104	8-729-191-81	2020	8-769-194-00	2025	
5-30099.3	1104	5.1B2.2	565	7.0015	2013	7D	1104	8-719-300-76	1104	8-729-194-58	2009	8-769-200-10	2035	
5-30099.4	1104	5.1B3	565	7.1(SARKES)	1617	7D210	1114	8-719-300-76(,RH-1A)	1104	8-729-200-02	1104	8-769-200-40	2035	
5-30106.1	1104	5.1N1	565	7.2(SARKES)	1617	7D210A	1114	7L6-0495-14	1104	8-729-200-33	2020	8-795-145-58	038	
5-30109.1	1104	5.1N2	565	7.3(SARKES)	1617	7MA60	1104	8-719-300-91	1102	8-729-201-78	2023	8-902-0706-071	1617	
5-30113.1	1104	5.1N3	565	7.4	2016	8-0001300	1114	8-719-301-18	1114	8-729-201-78(,25D1406-	2020	8-905-013-752	1104	
5-30120.1	1104	5.1X	565	7.4(SARKES)	2016	8-0001400	1114	8-719-302-00	1104	Y	2020	8-905-013-759	1104	
5-70004382	1617	6-04	2009	7.6	2016	8-0024-1	2016	8-719-331-10	1104	8-729-204-82	2023	8-905-013-760	1104	
5-70005483	1617	6-04	1617	7.6(SARKES)	2009	8-0024-2	2016	8-719-422-21	1123	8-729-204-83	2023	8-905-014-017	1617	
5-70005503	1617	6-04GRM	1617	7.7	2016	8-0024-3	1617	8-719-500-34	1114	N2	8-729-204-83	8-905-198-001	1104	
5-7000911304	1617	6-04ORN	1617	7.7(SARKES)	2016	8-00243	1617	8-719-501-34	1114	N1	{,25A1048GR}	2023	8-905-198-004	1104
5A1	1104	6-04S1	1617	7.8	2016	8-005202	1617	8-719-503-40	1114	8-729-245-83	2009	8-905-198-005	1104	
5A2	1104	6-04S2	1617	7.8(SARKES)	1617	8-0051000	1173	8-719-511-10	1171	8-729-245-83(,25C2458)	2009	8-905-198-007	1104	
5A3	1104	6-05	1617	7.8(STANDEL)	1103	8-0051500	1617	8-719-511-40	1173	2009	8-905-198-008	1104		
5A4	1104	6-05F	1617	7.9	2016	8-0052102	1617	8-719-800-34	1114	N2	8-729-245-84	2009	8-905-198-010	1104
5A4D	1104	6-05YEL	1617	7.9(SARKES)	2016	8-0052302	2009	8-719-815-55	1122	8-729-266-93	2009	8-905-198-034	1104	
5A4D-C	1104	6-04S1	1617	7.10	2016	8-0052402	2041	8-719-815-80	1122	8-729-266-93(,25D2669-	2020	8-905-305-004	1123	
5A3	1104	6-04S2	1617	7.10(SARKES)	2016	8-0052600	1617	8-719-815-85	1122	Y	2009	8-905-305-007	1123	
5A5D	1104	6-11	1617	7.11(SARKES)	2016	8-0053001	1617	8-719-900-02	1104	8-729-271-02	2009	8-905-305-020	1123	
5A6	1104	6-11	1617	7.12	2041	8-0053300	2030	8-719-900-63	1102	8-729-288-02	2020	8-905-305-023	1123	
5A6D	1104	6-30	1617	7.12(STANDEL)	2041	8-0053400	2017	8-719-900-95	1104	8-729-288-02(,25D880-	2020	8-905-305-055	1123	
5A6D-C	1104	6-21	2023	7.13	2041	8-0053600	2016	8-719-900-95	1104	Y	2020	8-905-305-318	1123	
5A8	1114	6-31A	2023	7.13(STANDEL)	2041	8-0318250	1617	8-719-900-95(,V19E)	1104	8-729-304-00	2035	8-905-305-327	1123	
5A8D	1114	6-38	2023	7.15(SARKES)	1617	8-0337390	1617	8-719-901-02	1102	8-729-305-42	2035	8-905-305-330	1123	
5A8DC	1114	6-38A	2023	7.15(STANDEL)	1114	8-0338030	2016	8-719-901-02	1102	8-729-307-62	2020	8-905-305-336	1123	
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5A10C	1114	6-90	2016	7.16(SARKES)	1617	8-0339430	2016	8-719-901-09	1104	8-729-313-42(,25D1134-	2020	8-905-305-339	1123	
5A10D	1114	6-93	2009	7.17	1617	8-0339440	2016	8-719-901-13	1104	C	2020	8-905-305-342	1123	
5A10D-C	1114	6-2708	2016	7.17(SARKES)	1617	8-0338380	2016	8-719-901-19	1104	8-729-316-12	2020	8-905-305-348	1123	
5A15	1067	6-59010	1104	7.18(SARKES)	1617	8-0383930	2016	8-719-901-24	1020	8-729-316-16	2020	8-905-305-400	1104	
5A D	1104	6-6490304	2041	7.19(SARKES)	1617	8-0383940	1617	8-719-901-83	1122	8-729-316-16(,25C1061)	2020	8-905-305-405	1123	
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5AD8DC	1114	6A10228	2030	7.20(SARKES)	1617	8-0389930	1617	8-719-901-93	1104	8-729-331-53	2020	8-905-305-561	1123	
5AD10	1114	6A10422	1617	7.21(SARKES)	2016	8-0414120	2041	8-719-901-93(,V19C)	1104	8-729-341-34	2055	8-905-305-580	1123	
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5B-2	1104	6A10855	1617	7.23(SARKES)	2016	8-2	1104	8-719-903-09	1104	8-729-375-01	2009	8-905-313-010	1123	
5B2	1114	6A11180	1617	7.24(SARKES)	2016	8-25	1104	8-719-903-29	1104	8-729-600-27	2009	8-905-313-011	1123	
5B-2-15W	1104	6A11223	2016	7.25(SARKES)	2016	8-26	1104	8-719-907-40	1104	8-729-600-27(,25C634-	2009	8-905-313-018	1123	
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5E3	1104	6A16399	2009	7-59-0013477	1123	8-719-000-24	1067	8-719-924-73	1122	8-729-665-47	2009	8-905-405-105	1114	
5E4	1104	6B1	561	7-59-0053477	1171	8-719-026-11	1123	8-719-930-12	563	8-729-671-13	2009	8-905-405-134	1104	
5E5	1104	6B2	561	7-59-019/3477	2009	8-719-100-30	565	8-719-931-05	565	8-729-671-14	2009	8-905-405-146	1104	
5E6	1104	6C												

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
8-905-421-300	1122	8C449	2023	9-9109-1	1617	10AG6	1104	10D-7K	1114	10R6B	1104	12-085006	1123
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8-905-421-715	564	8C450	2023	9-511511500	1114	10AG10	1114	10D-10	1114	10R8B	1114	12-085029	1123
8-905-405-644	2016	8C460	2023	9ACW	2035	10AL2	1104	10D10	1114	10R9B	1114	12-085031	1104
8-905-706-112	1617	8C460K	2023	9C3	562	10AL6	1104	10DB	1104	10R10B	1114	12-085034	1123
8-905-705-403	1617	8C463	2023	9D11	1122	10A5	1104	10DB1	1171	10V-50	1104	12-085035	1123
8-905-705-405	1617	8C463K	2023	9D12	1123	10AT2	1104	10DB2P	1173	10V-100	1102	12-085038	1123
8-905-705-410	2030	8C465	2023	9D13	1104	10AT4	1104	10DB4	1173	10V-200	1103	12-085040	1104
8-905-706-044	2016	8C465K	2023	9D15	562	10AT6	1104	10DB4A	1173	10Z6	1104	12-085041	1123
8-905-706-055	2016	8C466	2023	9D16	1123	10AT8	1114	10DB6A	1173	11/1	1122	12-087003	1123
8-905-706-060	2016	8C466K	2023	9D141003-12	562	10AT10	1114	10DB6A-C	1173	11/1 + 12/1	1104	12-087904	1122
8-905-706-070	2016	8C467	2023	9D1	1122	10B1	1104	10DC	1104	11/1&12/1	1104	12-1-70	1617
8-905-706-071	2016	8C467K	2023	9D11	1122	10B-2	1104	10DCOB	1104	11/15	1104	12-1-70-12	1617
8-905-705-075	2016	8C468	2023	9D12	1123	10B2	1104	10DCOH	1104	11/1592	1104	12-1-70-12-7	1617
8-905-706-080	2016	8C468K	2023	9D13	1104	10B-2-B1W	1104	10DCO.5	1104	11-0422	2009	12-1-276	1617
8-905-706-101	2016	8C469	2023	9D15	562	10B2-B1W	1171	10DC-1	1104 N1	11-0429	1104	12-1-277	1617
8-905-706-104	1617	8C469K	2023	9DT1100310	1123	10B-2-N1W	1104	10DC1	1104	11-0430	1122	12-1-278	1617
8-905-706-110	2016	8C470	2023	9GR2	1617	10B3	1104	10DC1BLACK	1104	11-0769	1104	12-1-279	1617
8-905-706-112	2016	8C470K	2023	9LR2-2	1101	10B-4	1101	10DC-1R	1104	11-0771	1104	12-1A	1617
8-905-706-201	1617	8C700	2023	9LR2-4	1101	10B4	1104	10DC1R	1114	11-0774	2009	12-1A0	1617
8-905-706-202	1617	8C700A	2023	9N00	1801	10B-4-C4	1101	10DC-2	1114	11-0778	2009	12-1A0R	1617
8-905-706-203	1617	8C700B	2023	9N00DC	1801	10B5	1104	10DC2	1104	11-0781	1122	12-1A1	1617
8-905-706-206	1617	8C702	2023	9N00PC	1801	10B6	1104	10DC-2B	1104	11-085001	1123	12-1A2	1617
8-905-706-208	1617	8C702A	2023	9N01DC	1801	10B8	1114	10DC-2C	1104	11-085003	1104	12-1A3	1617
8-905-706-211	1617	8C702B	2023	9N01PC	1801	10B10	1114	10DC-2F	1104	11-085004	1123	12-1A3P	1617
8-905-706-215	1617	8C704	2023	9N04	1802	10B551	2016	10DC2F	1104	11-085005	1123	12-1A4	1617
8-905-706-235	1617	8C740	2023	9N04DC	1802	10B551-2	2016	10DC-2J	1104	11-085007	1123	12-1A4-7	1617
8-905-706-236	1617	8C740G	2023	9N04PC	1802	10B551-3	2016	10DC-4	1104	11-085008	1123	12-1A4-7B	1617
8-905-706-238	1617	8C740M	2023	9N08	1822	10B553	2016	10DC4	1104	11-085010	1617	12-1A5	1617
8-905-706-239	1617	8C742	2023	9N08DC	1822	10B553-2	2016	10DC-4R	1104	11-085012	1122	12-1A5L	1617
8-905-706-240	1617	8C742G	2023	9N08PC	1822	10B553-3	2016	10DC4R	1104	11-085013	1104	12-1A6	1617
8-905-706-242	1617	8C742M	2023	9OC69-1	1104	10B555	2016	10DC-4R-202	1104	11-085014	1123	12-1A6A	1617
8-905-706-244	1617	8C740C	2023	9RE1	1104	10B555-2	2016	10DC5	1104	11-085015	1123	12-1A7	1617
8-905-706-245	1617	8C7420	2023	9S037	1617	10B555-3	2016	10DC8	1114	11-085022	1123	12-1A7-1	1617
8-905-706-246	1617	8CG15	1104	9RR1	2016	10B556	2016	10DC8R	1114	11-085024	1104	12-1A8	1617
8-905-706-247	2023	8CG15RE	1104	9TR2	2009	10B556-2	2016	10DCIN	1104	11-102-001	1171	12-1A9	1617
8-905-706-250	1617	8D4	1104	9TR3	2009	10B556-3	2016	10DCIR	1104	11-1592	1104	12-1A9G	1617
8-905-706-251	2023	8D6	1104	9TR7	2009	10B1051	2016	10DCOB	1104	11-102001	1104	12-1A19	1617
8-905-706-253	2023	8D8	1114	9TR8	2020	10B1055	2016	10DCOH	1104	11-102003	1171	12-1A21	1617
8-905-706-254	2023	8D10	1114	9TR10	1617	10B-Y	1104	10DCO.5	1104	11-108002	1171	12-1A82	1617
8-905-706-255	2023	8G7	1114	9TR11001-01	2016	10C	1104	10DF1	1102	11-120607	1104	12-4	1617
8-905-706-256	2023	8GA	1114	9TR21001-02	1617	10C05	1104	10DF2	1103	11B551	2016	12-10	1617
8-905-706-257	1617	8P70BLU	2020	9TR31001-03	1617	10C11	1104	10DF4	1104	11B551-2	2016	12-11	1617
8-905-706-260	1617	8P73BLU	2020	9TR61001-07	2030	10C2	1104	10DF6	1114	11B551-3	2016	12-12	1617
8-905-706-263	1617	8P111	2035	9TR91001-09	2041	10C3	1104	10DF8	1114	11B552	2016	12-13	1617
8-905-706-280	2023	8P345	2020	9TRZ1001-02	1617	10C4	1104	10DI	1114	11B552-2	2016	12-14	1617
8-905-706-286	2023	8Q-3-01	2016	9.1B	562	10C4D	1104	10D-V	1104	11B552-3	2016	12-15	1617
8-905-706-287	2023	8Q-3-10	2016	9.1B2	562 N6	10C5	1104	10DX2	1104	11B554	2016	12-16	1617
8-905-706-288	2023	8Q-3-11	2023	9.1B3	562	10C6	1104	10DZ	1104	11B554-2	2016	12-17	1617
8-905-706-289	2023	8Q-3-12	2009	9.1N3	562	10C8	1114	10E-1	1104	11B554-3	2016	12-18	1617
8-905-706-290	2023	8Q-3-13	2030	9.1Z	562	10C10	1114	10E1	1104	11B555	2016	12-19	1617
8-905-706-336	1617	8Q-3-14	2023	9.S037	2009	10C573	2016	10E1LF	1104	11B555-2	2016	12-23163-3	2016
8-905-706-555	2041	8Q-7-01	1104	10-002	2009	10C573-2	2016	10E-2	1104	11B555-3	2016	12-109001	1104
8-905-706-556	2041	8Q-7-02	1104	10-003	2009	10C573-3	2016	10E2	1104	11B1052	2016	12-109003	1104
8-905-706-557	2041	8Q-7-03	1104	10-004	2035	10C574	2016	10E4	1104	11B1055	2016	12-102001	1104
8-905-706-606	1617	8S191A04	1104	10-008	2009	10C574-2	2016	10E4A	1104	11C551	2016	12-SZ-EQB01-12A	563
8-905-706-730	2016	8T04A	1000	10-010	1122	10C574-3	2016	10E4B	1104	11C551-2	2016	12A1	563
8-905-706-901	2035	8T04HA	1000	10-012	1104	10D	1104	10E6	1104	11C551-3	2016	12B	563
8-905-707-254	1617	8T14A	1000	10-013	562	10D-02	1104	10E-7L	1104	11C553	2016	12B(1WATT)	563
8-905-707-265	1617	8T14HA	1000	10-080009	2016	10D-05	1104	10E10	1114	11C553-2	2016	12B,,	563
8-905-707-313	1617	8T24A	1000	10-080010	1617	10D05	1104	10E10(FA-8)	1114	11C553-3	2016	12B1(1-WATT)	563
8-905-713-058	2023	8T24NA	1000	10-085001	1123	10D-06	1104	10E-10P	1104	11C557	2016	12B1(1WATT)	563
8-905-713-101	2041	8T34A	1000	10-085004	1123	10D06	1144	10E11F	1104	11C557-2	2016	12B-2	1104
8-905-713-556	2041	8T34NA	1000	10-085005	1122	10D0.5	1104	10F1	1104	11C557-3	2016	12B2	563
8-2409501	1617	8T44A	1000	10-085006	1104	10D-1	1104	10G	1114	11C1051	2016	12B2(.5W)	563
8-81250108	2016	8T44HA	1000	10-085009	1104	10D1	1104	10G1051	2016	11C1053	2016	12B-2-BIP-M	1114
8-81250109	1617	8U4	1103	10-085010	1104	10D-2	1104	10G1052	2016	11C1057	2016	12B-2B1P-M	1104
8A01	1123	8U8	1104	10-085014	1123	10D2	1104	10GA	1114	11C1536	2030	12B3	563
8A11667	1104	8U12	1114	10-085018	1123	10D-2B	1104	10H	1104	11DF1	1104	12C2	1104
8A12789	1617	8.75VZENER	562	10-085025	1122	10D-2B(-4)	1104	10H51	1104	11DF2	1104	12C2(ZENER)	563
8C91	562	9-5125	2016	10-085026	1104	10D-2B(4)	1104	10H53	2016	11DF3	1103	12C2P-114	1171
8C260	2023	9-5126	2016	10-085027	565	10D3	1104	10H1051	2016	11DF4	1103	12C3	563
8C201	2023	9-5127	2016	10-085030	1104	10D3G	1104	10H1053	2016	11DQ03	1101	12C5Y	563
8C202	2023	9-5128	2016	10-0800010	1617	10D-4	1114	10I10	1113	11DQ04	1101	12CLN	1617
8C203	2023	9-5129	2016	10-1	2016	10D4	1114	10J2	1104	11DQ05	1101	12J2	1104
8C204	2023	9-5130	2016	10-2	2016	10D4A	1104	10J2F	1104	11E1	1104	12J2F	1104
8C205	2023	9-5131	2016	10-25C80	2016	10D4B	1104	10K	1104	11E1TA1-T	1104	12P2	1122
8C206	2023	9-5216	1617	10-25C94	2016	10D4E	1104	10M	1104	11G1052	2016	12SZ-EQB01-12A	563
8C207	2023	9-5220	2030	10-25C380	2016	10D5	1104	10N1	1104	11G1053	2016	12V	563
8C430	2023	9-5221	2009	10-7	1104	10D5B	1104	10O-202	1123	11J2	1104	12V1W	563
8C430K	2023	9-5223	2016	10-12	1104	10D5E	1104	10P1	2023	11J2F	1104	12X	563
8C440	2023	9-5225	16										

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13-0001	2023	13-10321-21	2016	13-14094-42	1104	13-18950-1	2016	13-21394-2	2030	13-34003-1(METAL)	2030	13-55061-1(AGC)	2030
13-0001A	2021	13-10321-26	2014	13-14094-54	7184	13-19774-1	2023	13-21394-3	2020	13-34045-1	2016	13-55061-1(MOP-MUL)	2009
13-0005	2009	13-10321-29	2016	13-14097-7	1123	13-22017-0	1122	13-22649-2	2030	13-34045-2	2016		
13-0010	2009	13-10321-30	2016	13-14261-1	1104	13-22452-0	1104	13-21471-1	2030	13-34046-1	2017	13-55061-1(SOUND)	
13-0015	1104	13-10321-31	2016	13-14261-3	1104	13-22463-0	1104	13-22471-1(METAL)	2030	13-34046-2	2017		2009
13-0020	2016	13-10321-32	2016	13-14605-1	2030	13-22463-1	1101	13-28584	2016	13-34046-3	2017	13-55061-2	1617
13-0021	1617	13-10321-35	2058	13-14606-1	1617	13-22581	1617	13-28584-1	2016	13-34046-4	2017	13-55061-2(SYL)	2009
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21-7	2016	21A7	1104	21A112-091	1617	21M248	1104	23-5021	2009	24MW603	1123	24MW665	1123
21-810	1104	21A101-001(RECT)	1104	21A112-092	1617	21M283	1104	23-5022	2009	24MW605	1114	24MW667	1617
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26J2	1122		1104	32-0063	1122	34-6002-55	2009	34-6016-33	2030	34-8057-11	1104	40NJ	1104
26J2C	1122	30S05	1141	32-13843-2	1617	34-6002-56	2020	34-6016-45	2020	34-8057-12	564	40SG2	1102
26OD15901	2016	30S1	1143	32-18537	1123	34-6002-57	2027	34-6016-46	2027	34-8057-13	1122	40SG3	1122
26ST-25C383TM	2009	30S3	1144	32-18539	1123	34-6002-63	2055	34-6016-47	2023	34-8057-14	563	40SG4	1103
27-ST-25A673C	2023	30S4	1144	32-20738	1617	34-6002-64	2055	34-6016-49	1617	34-8057-18	1104	40SG5	1103
27-ST-LM2682	2009	30S2-HZ5C1	565	32-20739	2023	34-6006-1	2020	34-6016-49A	1617	34-8057-23	1122	40SG6	1104
27J2	1122	31-0007	1617	32-ST-JE9018H	2016	34-6007-1	1617	34-6016-60	2023	34-8057-25	1122	40SG7	1114
27P1	1123	31-0009	1617	32ST-JE9018H	2016	34-6007-2	1617	34-6016-63	1617	34-8057-26	1123	40SG8	1114
27ST-25A673C	2023	31-002-0	2009	33-0002	1104	34-6007-3	1617	34-6016-64	2023	34-8057-28	1104	40Y3P	1104
27ST-LM2682	2009	31-0012	2016	33-0006	1104	34-6007-5	2009	34-6018-2	2035	34-8057-29	1123	41-001	1101
27T409	1617	31-0013	2016	33-0023	1104	34-6007-6	2009	34-6075-46	2009	34-8057-30	1123	41-0318	2041
27T411	1617	31-0048	2016	33-0024	1104	34-6007-7	2009	34-8002-1	1123	34-8057-33	563	41-0318A	2041
28-1-01	1104	31-0049	2016	33-0026	1104	34-6007-9	2009	34-8002-2	1123	34-8057-34	1122	41-04F9	1617
28-1-02	1104	31-0050	2016	33-0029	1104	34-6007-10	2016	34-8002-3	1123	34-8057-37	565	41-0905	563
28-4-01	1104	31-0051	2016	33-0090	1104	34-6007-11	2016	34-8002-4	1123	34-8057-53	563	41-12	1124
28-7-01	1104	31-0052	2016	33-0031	1104	34-6007-12	2016	34-8002-5	1123	34-8058	1101	41R581014	2020
28-12-01	1104	31-0054	2016	33-0036	1114	34-6007-13	2016	34-8002-6	1123	34-8058-1	1101	41E3-1	1123
28-14-01	1104	31-0066	2017	33-070	1617	34-6007-14	2016	34-8002-7	1123	34-8058-1#(2)	1101	41J2	1104
28-15-01	1104	31-0068	1617	33-071	1617	34-6015-1	1617	34-8003	1104	34-8058-2	1101	41N	2016
28-15-02	1104	31-0069	1617	33-2N3906	1604	34-6015-2	1617	34-8022	1123	34-8058-7	1101	41N1	2016
28-18-01	1104	31-0080	1617	33-ST-25C710D	2009	34-6015-3	1617	34-8022-1	1123	34-8059-1	1104	41N2	2016
28-19-01	1104	31-0081	1617	33G59024	1104	34-6015-4	1617	34-8022-2	1123	34-8059-2	1104	41N2A	2016
28-20-01	1104	31-0082	1617	33G59121	1104	34-6015-5	1617	34-8022-3	1123	34-8059-6	1020	41N2AA	2016
28-20-02	1104	31-0083	2030	33G59122	1104	34-6015-6	1617	34-8022-4	1123	34-8059-7	1020	41N2B	2016
28-21-01	1104	31-0084	1617	33H50	2016	34-6015-7	1617	34-8022-5	1123	34-9037-2	1122	41N3	2016
28-22-01	1104	31-0085	1617	33K59	2035	34-6015-8	2016	34-8022-6	1123	34-60001-63	2009	42-051	1114
28-22-02	1104	31-0097	2016	33ST-25C710D	2009	34-6015-9	1617	34-8022-6(PHILCO)	1123	34-SZ-UZ12B	563	42-7	1104
28-22-03	1104	31-0098	2016	34	1104	34-6015-10	1617	34-8022-7	1123	34E3L	2016	42-14027	1104
28-22-04	1104	31-0099	2016	34-028-0	1123	34-6015-11	1617	34-8022-77	1123	34E31	2		

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42-19865	1104	42-28206	2016	46-8619	1104	46-86144-3	1617	46-86309-3(,151555V)	1122	46-86412-3(,25C945-YX)	2009	46-86513-3(,25C536E)	2009
42-20738	1617	42-28207	1617	46-8619-3	1123	46-86145-3	1617			46-86415-3	2055	46-86513-3(,25C536F)	2009
42-20961	2041	42-28208	2023	46-8621-3	1171	46-86146-3	1114	46-86309-3(,152076)	1122	46-86416-3	1104	46-86513-3(,25C536G)	2009
42-20961A	2041	42-28210	1617	46-8623	1123	46-86147-3	1114			46-86419-3	1617	46-86513-3(,25C536H)	2009
42-21233	2030	42-28211	2023	46-8623-3	1123	46-86148	1114	46-86309-3(,152076A)	1122	46-86420-3	1104	46-86513-3(,25C945AP)	2009
42-21234	1617	42-30092	2016	46-8624-3	2009	46-86148-3	1104			46-86421-3	562	46-86513-3(,25C945AR)	2009
42-21362	1123	42-ST-25C930E	2016	46-8629	2016	46-86149-3	1104	46-86309-3(,152471)	1122	46-86422-3	1122	46-86513-3(,25C945AS)	2009
42-21400	1104	42A11	1104	46-8630	1123	46-86152-3	1617			46-86423-3	2023	46-86513-3(,25C945AT)	2009
42-21401	2016	42A14	1123	46-8638	2035	46-86168-3	1122	46-86309-3(,152472)	1122	46-86426-3	2030	46-86513-3(,25C945AU)	2009
42-21402	2016	42A23	1104	46-8638P-3	2030	46-86169-3	1617			46-86427-3	2030	46-86513-3(,25C945AV)	2009
42-21407	1617	42B2	1104	46-8644-3	1123	46-86170-3	2023	46-86309-3(,152473)	1122	46-86428-3	1122	46-86513-3(,25C945AW)	2009
42-21408	1104	42B16	1104	46-8646-3	1123	46-86171-3	1617			46-86429-3	2023	46-86513-3(,25C945AX)	2009
42-21866	1104	42J2	1104	46-8647	2016	46-86172-3	2016	46-86309-3(,15553)	1122	46-86430-3	1104	46-86513-3(,25C945AY)	2009
42-22008	2023	42P83	1617	46-8647-3	1104	46-86177-3	1104	46-86309-3(,155104)	1122	46-86431-3	1122	46-86513-3(,25C945AZ)	2009
42-22008A	2023	42X25	1104	46-8648	2035	46-86178-3	1122	(FA))	1122	46-86432-3	2023	46-86513-3(,25C945BA)	2009
42-22158	1617	42X32	1104	46-8649	2035	46-86184	1122	46-86309-3(,155104)	1122	46-86433-3	1104	46-86513-3(,25C945BB)	2009
42-22532	2016	42X244	1104	46-8650	2016	46-86184-3	1122			46-86434-3	2016	46-86513-3(,25C945BC)	2009
42-22533	1617	42X244B	1104	46-8651	2009	46-86185-3	1101	46-86309-3(,155133)	1122	46-86435-3	2016	46-86513-3(,25C945BD)	2009
42-22537	1123	42X245	1104	46-8652	2016	46-86186-3	1122			46-86436-3	1122	46-86513-3(,25C945BE)	2009
42-22538	1122	42X245B	1104	46-8653	2016	46-86187-3	1122	46-86309-3(,155176)	1122	46-86437-3	1104	46-86513-3(,25C945BF)	2009
42-22539	1123	42Z6	562	46-8654	2016	46-86192-3	2009	(FA))	1122	46-86438-3	1104	46-86513-3(,25C945BG)	2009
42-22755	1123	42Z6A	562	46-8656	2009	46-86194-3	562	46-86309-3(,155176)	1122	46-86439-3	2023	46-86513-3(,25C945BH)	2009
42-22785	2016	43-022861	2016	46-8661	1104	46-86199-3	1104			46-86440-3	2023	46-86513-3(,25C945BI)	2009
42-22786	1617	43-023212	2009	46-8661-3	1104	46-86200-3	1123	46-86309-3(,D5442)	1122	46-86441-3	1122	46-86513-3(,25C945BJ)	2009
42-22787	1617	43-023221	1617	46-8672-3	2016	46-86201-3	1104			46-86442-3	1104	46-86513-3(,25C945BK)	2009
42-22809	1617	43-023223	2030	46-8676-3	1122	46-86201-3(CENTERING)	1104	46-86309-3(,EM01Z)	1104	46-86443-3	2016	46-86513-3(,25C945BL)	2009
42-22810	2023	43-023843	2041	46-8677-2	2016		1101			46-86444-3	1020	46-86513-3(,25C945BM)	2009
42-22810A	2023	43-023844	2030	46-8682-2	1617	46-86207-3	2016	46-86309-3(,KD51555)	1122	46-86445-3	1122	46-86513-3(,25C945BN)	2009
42-22811	1617	43-025763	2016	46-8682-3	2016	46-86208-3	2016			46-86446-3	1104	46-86513-3(,25C945BO)	2009
42-22812	1617	43-025764	2016	46-8687-3	1104	46-86209-3	2016	46-86309-3(,MA150)	1122	46-86447-3	1104	46-86513-3(,25C945BP)	2009
42-22835	1104	43-025765	2016	46-8689-3	1104	46-86212-3	1104			46-86448-3	1020	46-86513-3(,25C945BQ)	2009
42-22847	1617	43-025766	1617	46-8694-3	1101	46-86214-3	1123	46-86309-3(ZENER)	563	46-86449-3	561	46-86513-3(,25C945BR)	2009
42-23348	1617	43-025767	2016	46-8695-3	1617	46-86224-3	2016	46-86310-3	1617	46-86450-3	2055	46-86513-3(,25C945BS)	2009
42-23349	1617	43-540012	1104	46-8697-3	1104	46-86228-3	1617	46-86311-3	2016	46-86451-3	2055	46-86513-3(,25C945BT)	2009
42-23350	1104	43-ST-25C535B	2016	46-13178-3	007	46-86229-3	2023	46-86314-3	2016	46-86452-3	2055	46-86513-3(,25C945BU)	2009
42-23350A	1104	43-SZ-RD6.2E	561	46-13258-3	2411	46-86229-3A	2023	46-86314-3A	2016	46-86453-3	1104	46-86513-3(,25C945BV)	2009
42-23459	2020	43-SZ-Y2063	561	46-13272-3	2401	46-86230-3	2023	46-86315-3	2030	46-86454-3	564	46-86513-3(,25C945BW)	2009
42-23541	2023	43A223007	1801	46-13272-3(,TC4001BP)	2401	46-86231-3	1617	46-86316-3	2035	46-86455-3	564	46-86513-3(,25C945BX)	2009
42-23541A	2023	43N3	1617		2401	46-86233-3	2030	46-86317-3	2020	46-86456-3	2055	46-86513-3(,25C945BY)	2009
42-23542	1617	43N6	1617	46-13310-3	038	46-86238-3	2023	46-86321-3	1104	46-86457-3	1122	46-86513-3(,25C945BZ)	2009
42-23960	2016	43ST-25C535B	2016	46-13311-3	1772	46-86238-3A	2023	46-86322-3	1104	46-86458-3	1123	46-86513-3(,25C945CA)	2009
42-23960P	2016	43SZ-RD6.2E	561	46-13313-3	2413	46-86239-3	2016	46-86323-3	1104	46-86459-3	2009	46-86513-3(,25C945CB)	2009
42-23961	2016	43SZ-YZ063	561	46-13313-3(,HD14013B)	2413	46-86240-3	2016	46-86335-3	2020	46-86460-3	2055	46-86513-3(,25C945CC)	2009
42-23961P	2016	43SZ-YZ-063	561	46-13313-3(,LC4013B)	2413	46-86244-3	2016	46-86337-3	1104	46-86461-3	1114	46-86513-3(,25C945CD)	2009
42-23962	2016	43X16A567	1617		2413	46-86247-2	1617	46-86338-3	1122	46-86462-3	1104	46-86513-3(,25C945CE)	2009
42-23962P	2016	44-530	1104	46-13313-3(,TC4013BP)	2413	46-86247-3	2009	46-86339-3	1104	46-86463-3	1104	46-86513-3(,25C945CF)	2009
42-23963	2016	44-44886G01	2009		2413	46-86250-3	1122	46-86343-3	1122	46-86464-3	1114	46-86513-3(,25C945CG)	2009
42-23963P	2016	44-5D-CDG00	1122	46-13313-3	2413	46-86251-3	2016	46-86347-3	2020	46-86465-3	1104	46-86513-3(,25C945CH)	2009
42-23964	1617	44-5Z-WZ-063	561	46-13313-3	2413	46-86252-3	2009	46-86348-3	2020	46-86466-3	561	46-86513-3(,25C945CI)	2009
42-23964P	1617	44A417779-001	007	(,UPD40138C)	2413	46-86253-3	1123	46-86351-3	1104	46-86467-3	1104	46-86513-3(,25C945CJ)	2009
42-23966	1617	44SD-CDG00	1122	46-13315-3	2413	46-86254-3	1122	46-86352-3	2016	46-86468-3	1104	46-86513-3(,25C945CK)	2009
42-23966P	1617	44SZ-WZ-063	561	46-13317-3	2401	46-86257-3	1617	46-86353-3	2016	46-86469-3	2023	46-86513-3(,25C945CL)	2009
42-23969	1123	44T-100-120	705	46-13345-3	038	46-86261-3	1104	46-86354-3	2016	46-86470-3	1104	46-86513-3(,25C945CM)	2009
42-23972	1123	44T-300-92	565	46-13404-3	038	46-86262-3	2016	46-86355-2	1104	46-86471-3	1104	46-86513-3(,25C945CN)	2009
42-23975	1104	44T-300-95	1104	46-16261	1104	46-86264-3	1104	46-86355-3	1104	46-86472-3	1104	46-86513-3(,25C945CO)	2009
42-24387	1122	44T-300-96	1122	46-16261-3	1104	46-86265-3	2016	46-86357-3	2016	46-86473-3	1104	46-86513-3(,25C945CP)	2009
42-27202	1104	44T-300-97	1123	46-61249-3	1104	46-86266-3	1123	46-86358-3	1104	46-86474-3	1104	46-86513-3(,25C945CQ)	2009
42-27277	2016	44T-300-102	705	46-61267-3	1122	46-86267-3	1104	46-86360-3	2017	46-86475-3	1104	46-86513-3(,25C945CR)	2009
42-27278	1104	44T-300-103	2009	46-61307-3	1122	46-86268-3	1617	46-86364-3	1104	46-86476-3	1104	46-86513-3(,25C945CS)	2009
42-27372	2016	44T-300-104	2009	46-67120A13	1104	46-86269-3	2016	46-86365-3	1104	46-86477-3	1104	46-86513-3(,25C945CT)	2009
42-27373	2016	44T-300-105	2035	46-80309-3	1122	46-86270-3	1104	46-86371-3	2030	46-86478-3	1104	46-86513-3(,25C945CU)	2009
42-27374	2009	44T-300-106	2009	46-84120-3	2016	46-86271-3	1104	46-86374-3	2020	46-86479-3	1104	46-86513-3(,25C945CV)	2009
42-27375	2009	44T-300-110	2016	46-85285-3	2016	46-86272-3	1104	46-86375-3	1617	46-86480-3	1104	46-86513-3(,25C945CW)	2009
42-27378	1123	44T-300-111	2016	46-86101-3	2016	46-86274-3							

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46-86682-3(2SC315E)	2017	46-86682-3(2SC334NPG)	2009	46-86805-3(2SA5621M-O)	2023	46-861148-3(2SA1246(R))	2023	46AX17	1114	48-6712A02	1122	48-63078A71	1617
46-86679-3	2025	46-86682-3(2SC945)	2009	46-86805-3(2SA5621M-Y)	2023	46-861148-3(2SA1246(S))	2023	46AX16	1104	48-8375D02	1067	48-63079A97	1617
46-86677-3	563	46-86682-3(2SC945A)	2009	46-86823-3	1104	46-861148-3(2SA1246(T))	2023	46AX17	1104	48-8619-3	1123	48-62082A25	1617
46-86677-3(EQA02-12M1)	563	46-86682-3(2SC945A)	2009	46-86831-3	2016	46-861148-3(2SA1246(U))	2023	46AX19	1104	48-10001-A01	1104	48-63082A26	1617
46-86679-3	2023	46-86682-3(2SC945A)	2009	46-86831-3(2SC930(E))	2016	46-861148-3(2SA1246(V))	2023	46AX21	1104	48-10001-A03	1104	48-63082A27	1617
46-86679-3(2SA564(Q))	2023	46-86682-3(2SC945A)	2009	46-86831-3(2SC930(F))	2016	46-861148-3(2SA1246(W))	2023	46AX30	1104	48-10001-A030-1	1104	48-63082A45	1617
46-86679-3(2SA564(R))	2023	46-86682-3(2SC945A)	2009	46-86831-3(2SC930E)	2016	46-861148-3(2SA1246(X))	2023	46AX34	1104	48-10062A01	1104	48-63082A71	1617
46-86679-3(2SA564)	2023	46-86682-3(2SC945A)	2009	46-86862-3	2016	46-861148-3(2SA1246(Y))	2023	46AX34	1104	48-10062A01A	1104	48-63084A06	1123
46-86679-3(2SA564A)	2023	46-86682-3(2SC945A)	2009	46-86862-3	2016	46-861148-3(2SA1246(Z))	2023	46AX52	1104	48-10062A02	1104	48-63086A16	1104
46-86679-3(2SA564A)	2023	46-86682-3(2SC945A)	2009	46-86862-3(2SC945A)	2009	46-861148-3(2SA1246R)	2023	46AX54	1104	48-10062A04	1104	48-63090A01	1123
46-86679-3(2SA564A)	2023	46-86682-3(2SC945A)	2009	46-86862-3(2SC945A)	2009	46-861148-3(2SA1246S)	2023	46AX55	1114	48-10062A05	1104	48-63590A01	1123
46-86679-3(2SA564A)	2023	46-86682-3(2SC945A)	2009	46-86862-3(2SC945A)	2009	46-861148-3(2SA1246S)	2023	46AX56	1114	48-10062A05A	1104	48-64169	1104
46-86679-3(2SA564A)	2023	46-86682-3(2SC945A)	2009	46-86862-3(2SC945A)	2009	46-861148-3(2SA1246S)	2023	46AX59	1114	48-10346A01	1101	48-64978A40	2023
46-86679-3(2SA564A)	2023	46-86682-3(2SC945A)	2009	46-86862-3(2SC945A)	2009	46-861148-3(2SA1246S)	2023	46AX70	1114	48-10346A02	1101	48-64978A41	2023
46-86679-3(2SA564A)	2023	46-86682-3(2SC945A)	2009	46-86862-3(2SC945A)	2009	46-861148-3(2SA1246S)	2023	46AX82	1114	48-10577A01	1122	48-64978A41	2023
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48-97046A30	2020	48-97239A01	1123	48-134789	2016	48-134908	1617	48-137014	1617	48-137174	1617	48-137483	2016
48-97046A38	2020	48-97270A01	1104	48-134790	1104	48-134908	2016	48-137015	2016	48-137175	2041	48-137491	2016
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48-97046A42	1617	48-97305A03	1171	48-134800	2016	48-134909A	2023	48-137020	2023	48-137176	2023	48-137502	2023
48-97046A43	1617	48-97305A05	2016	48-134									

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DEVICE	276	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
48-155035	2059	48A44835A01	2009	48K647829	1104	48S00155077	1122	48S9023A0A	1123	48S134926	2009	48S137314	2023
48-155039	1123	48A434816	1122	48K747732	1101	48S0155093	2009	48S9023A0B	563	48S134927	2009	48S137315	1617
48-155041	1102	48A43508A01	1104	48K74249E	1101	48S0155093(,25C168S)		48S9023A0B	1123	48S134932	2016	48S137321	2023
48-155042	2072	48A43508A02	1104	48K74482E	1104	(C)	2009	48S9023A0C	1144	48S134933	1617	48S137323	2023
48-155044	2009	48A62672A01	1123	48K751724	1101	48S00155092(,25C168S)		48S9023A0C	1104	48S134935	2023	48S137330	564
48-155047	1122	48B41768G01	1123	48K752297	1104	(R)	2009	48S9023A03	1101	48S134936	2020	48S137343	2035
48-155058	2055	48B43265G01	1104	48K752497	1104	48S00155093		48S907048A04	1144	48S134937	2009	48S137344	2041
48-155060	1122	48B62334A01	1123	48K754153	1101	(,25C168S)	2009	48S97127A01	1173	48S134939	1104	48S137347	1104
48-155061	1123	48B66629A01	1123	48K865539	1123	48S00155114	1123	48S97168A01	1123	48S134941	2009	48S137348	1104
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48-155071	2016	48B6702A11	1123	48M355009	1122	48S00155184	1122	48S97305A03	1144	48S134945(A3C)	2009	48S137381	561
48-155073	2009	48B6702A12	1144	48M355014	1122	48S00155204	2023	48S134946	1123	48S134946	2016	48S137473	2017
48-155077	1122	48C40235G01	1104	48M355016	1104	48S00155204(,25A564)		48S134966	2009	48S134948	2016	48S137493	1123
48-155083	1114	48C40235G01	1104	48M355021	1114	(R)	2023	48S134718	2009	48S134949	2016	48S137498	1617
48-155087	2058	48C40235G01	1104	48M355023	1104	48S00155284(,25A564)		48S134719	2009	48S134950	2016	48S137512	2009
48-155088	2058	48C40524A02	1122	48M355025	1104	(S)	2023	48S134720	2009	48S134952	2009	48S137530	1617
48-155095	2023	48C42428A01	1123	48M355029	1067	48S00155334	1122	48S134721	2009	48S134953	2030	48S137539	2055
48-155099	1104	48C61074B01	1123	48M355035	1122	48S00155343	2023	48S134732	2009	48S134954	1123	48S137543	1617
48-155108	1114	48C61787B01	1123	48M355039	2017	48S00155343(,25B643S)		48S134733	2009	48S134957	561	48S137555	2009
48-155113	1067	48C65831A02	1101	48M355040	2020	(Q)	2023	48S134734	2009	48S134958	1104	48S137558	1122
48-155116	1122	48C65831A03	1101	48M355041	2041	48S00155343(,25B643S)		48S134734	1617	48S134959	1104	48S137560	1104
48-155119	2009	48C65831A02	1122	48M355043	2045	(R)	2023	48S134734A	2009	48S134960	2016	48S150013	2020
48-155128	1104	48C65837A01	1122	48M355045	1104	48S00155343(,25B643S)		48S134736	1104	48S134961	2009	48S150036	1104
48-155136	1104	48C65837A02	1123	48M355048	1104	(S)	2023	48S134756	2016	48S134962	2009	48S150035	2023
48-155145	565	48C66037A03	1104	48M355049	1104	48S00155343(,25B643Q)		48S134765	2009	48S134963	2009	48S150037	1104
48-155146	561	48C66037A04	1104	48M355052	2009		2023	48S134768	2009	48S134964	2009	48S150039	1123
48-155154	2009	48C66037A05	1104	48M355053	2009	48S00155343(,25B643S)		48S134773	2009	48S134970	2016	48S150040	1104
48-155156	2023	48C66037A10	1104	48M355059	2020		2023	48S134774	2009	48S134979	2016	48S150041	1102
48-155159	1122	48C66037A12	1104	48P60021A97	1123	48S00155345	2009	48S134775	2009	48S134981	2016	48S150043	2023
48-155170	1104	48C66037A02	1104	48P60077A96	1123	48S00155345	1123	48S134776	2009	48S134988	1617	48S150044	2009
48-155194	561	48C66633A001	1101	48P60077A97	2009	(,25C168S)	2009	48S134783	2009	48S134989	2023	48S150047	1122
48-155198	2055	48C66633A02	1104	48P60077A98	1122	48S00155345	2016	48S134784	2009	48S134990	1104	48S150050	1067
48-155199	1124	48C67120A01	1123	48P63076A81	2009	48S00155345(,25B643Q)		48S134785	2009	48S134991	2009	48S150058	2055
48-155199	1114	48C67120A02	1122	48P63076A82	2009		2016	48S134789	2009	48S134997	1617	48S150060	1122
48-155210	563	48C67120A05	1104	48P63077A11	1123	48S191A02	1104	48S134790	1104	48S137000	563	48S150061	1123
48-155224	2055	48C67926A01	1104	48P63077A31	2009	48S191A04	1104	48S134804	2016	48S137003	2009	48S150062	2020
48-155225	561	48C134587	1123	48P63077A32	1123	48S191A04(A)	1104	48S134805	2009	48S137006	1617	48S150063	1104
48-155235	1104	48C134816	1122	48P63077A52	1123	48S191A06	1104	48S134807	1617	48S137006(A3S)	2009	48S150066	2027
48-155238	1104	48C134840	2016	48P63077A59	2009	48S191A07	1104	48S134809	2009	48S137014	2030	48S150067	2041
48-155308	1122	48C66633A03	1101	48P63077A81	2016	48S10682A03	1104	48S134810	2009	48S137015	2016	48S150068	1900
48-155329	1067	48C66633A04	1101	48P63077A87	2009	48S10682A05	1104	48S134811	2009	48S137017	564	48S150073	2009
48-155348	1104	48C66633A05	1067	48P63077A91	1617	48S10682A05	1104	48S134814	2023	48S137021	2009	48S150078	2055
48-155350	2058	48C66633A01	1122	48P63077A97	2009	48S10682A05A	1104	48S134815	2023	48S137029	1104	48S150077	1122
48-355053	2009	48D63390A01	1123	48P63082A24	2009	48S10346A02	1123	48S134816	1122	48S137032	2023	48S150078	1123
48-355059	2020	48D66037A03	1104	48P63082A25	2009	48S10577A01	1122	48S134820	2016	48S137033	2009	48S150079	1104
48-644587	1123	48D66037A04	1104	48P63082A26	2009	48S10577A02	1122	48S134823	2009	48S137040	1104	48S150080	561
48-644681	1123	48D66037A05	1104	48P63082A27	2030	48S10577A11	1122	48S134825	2016	48S137041	1617	48S150083	1114
48-644694	1104	48D66037A08	1104	48P63082A45	2016	48S10577A13	1122	48S134826	2009	48S137044	2009	48S150085	1114
48-647311	1123	48D66633A02	1101	48P63082A71	2016	48S10443A02	561	48S134827	2009	48S137045	2023	48S150087	2016
48-647313	1123	48D66633A07(ROU)	1101	48P63082A78	2009	48S12000	563	48S134830	2023	48S137047	2030	48S150087(A3S)	1067
48-647323	1123	48D66633A02	1104	48P65112A85	2009	48S10443A01	2016	48S134831	2023	48S137055	2016	48S150089	2016
48-647325	1104	48D67120A01	1123	48P65112A86	2009	48S10170G01	2009	48S134832	2023	48S137056	1617	48S150089	2009
48-647379A03	1104	48D67120A02	1104	48P65112A84	2009	48S10171G01	2030	48S134837	2009	48S137057	1617	48S150093	1067
48-711052	1123	48D67120A05	1104	48P65123A67	2016	48S40235G02	1104	48S134840	2009	48S137070	2035	48S150093	2009
48-733746	1104	48D67120A06	1104	48P65123A95	2016	48S40241A01	2016	48S134841	2009	48S137074	1104	48S150099	1104
48-739300	1123	48D67120A07	1104	48P65144A72	2016	48S40246G01	2016	48S134842	2009	48S137101	1123	48S151100	1104
48-741255	1122	48D67120A09	1123	48P65146A61	2016	48S40247G01	2016	48S134844	2009	48S137106	2030	48S151103	563
48-741280	1123	48D67120A011	2009	48P65146A62	2016	48S40247G02	2009	48S134845	2016	48S137107	1617	48S151104	564
48-741854	1122	48D67120A11	1122	48P65146A63	2016	48S40283A01	2017	48S134848	2009	48S137108	1417	48S151108	1104
48-741774	1122	48D67120A11(DIC)	1123	48P65173A77	1104	48S40283A01	2009	48S134850	563	48S137109	2009	48S151107	1104
48-741792	1101	48D67120A11(3STR)	2009	48P65173A78	2016	48S40283A02	2016	48S134851	562	48S137110	1617	48S151114	1123
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48-744831	1104	48D67120A13	1122	48P65193A36	2014	48S40283A03	2014	48S134854	1417	48S137115	1617	48S151128	1104
48-751724	1101	48D67120A13(C)	1122	48P65193A92	2016	48S40607J01	2016	48S134855	2016	48S137127	2023	48S151127	565
48-752497	1104	48R10001-A01	1104	48R10001-A01	1104	48S40662G02	2020	48S134857	2009	48S137133	1122	48S151177	1104
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48-861738	2030	48D83875D06	1067	48R10062A04	1104	48S43221G01	2020						

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
33C001-1	1123	54	2016	56-8093	1123	57A21-12	2016	57A185-11	2055	57B5-8	2016	57B151-6	2016
33C003-1	1104	54-1	1617	56-8095	1123	57A21-13	2016	57A185-12	2023	57B6-4	2009	57B152-1	1617
33C005-3	1104	54-ST-25C1815Y	2009	56-8097	1104	57A21-14	2016	57A186-11	2055	57B6-9	2009	57B152-2	1617
33C006-1	1123	54-ST-25C1815Y(AU)F		56-8098	2023	57A21-15	2016	57A187-12	2020	57B6-11	2009	57B152-3	1617
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33C009-1	1104	54BLK	2016	56-8196	2016	57A21-21	2016	57A194-12	1067	57B21-2	2016	57B152-7	1617
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33C012-1	1104	54BRN	2016	56-8198	1104	57A21-45	2016	57A197-12	2023	57B21-5	2016	57B152-9	1617
33C014-1	1104	54C	1617	56-8199	1104	57A24-1	1617	57A198-11	2055	57B21-6	2016	57B152-10	1617
33C016-1	1104	54D	1617	56-861041-3	1104	57A24-2	1617	57A199-4	1617	57B21-7	2016	57B152-11	1617
33C020-1	1123	54F	1617	56-ST-LM2152	2009	57A24-3	1617	57A200-12	1617	57B21-9	2016	57B152-12	2016
33C022-1	1104	54GRN	1617	56-SZ-WZ120(AU)	563	57A31-1	2035	57A201-14	2023	57B21-12	2016	57B153-1	1617
33C001-1	1123	54ORN	2016	56A15-1	1808	57A31-2	2035	57A202-13	1617	57B21-13	2016	57B153-2	2009
33D002-1	1123	54RED	2016	56A22-1	1617	57A31-3	2035	57A203-14	1617	57B21-14	2016	57B153-3	1617
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33D003-1	1104	54YEL	1617	56A402-L	2016	57A33-1	2009&23	57A206-14	2027	57B21-16	2016	57B153-5	1617
33D003-2	1104	55-1	1123	56ST-LM2152	2009	57A63-11	2055	57A213-11	2055	57B21-17	2016	57B153-6	1617
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33E003-1	1123	55-1026	1617	56Z4	563	57A102-4	2016	57A216-12	2023	57B27-2	2009	57B153-8	1617
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33E006-1	1123	55-1083	2023	57-0004503	1617	57A104-8-e	2030	57A220-14	2023	57B101-4	2016	57B156-9	1617
33E010-1	1104	55-1083A	2023	57-0005452	1617	57A105-12	1617	57A235-12	2023	57B-102-4	2009	57B157-9	2023
33E011-1	1171	55-1084	2030	57-000901504	1617	57A106-12	2023	57A240-14	2023	57B102-4	2016	57B157-9A	2023
53E011-2	561	55-1085	2023	57-000901504	2009	57A107-1	2016	57A241-14	2009	57B103-4	2016	57B159-12	2023
53F001-1	1104	55-1085A	2023	57-2	1104	57A107-2	2016	57A243-10	1067	57B105-12	1617	57B159-12A	2023
53F002-1	1104	55-SD-1N60S	1123	57-6	1104	57A107-3	2016	57A244-14	2020	57B106-12	2023	57B160-1	2016
53H001-1	1104	55-SI-MC14011BCP	2411	57-12	1104	57A107-4	2016	57A249-4	2016	57B107-8	1617	57B160-2	2016
53H001-2	1123	55-SZ-RD12EB	563	57-13	1104	57A107-5	2016	57A250-14	2020	57B108-6	2023	57B160-3	2016
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33J003-1	1104	55SZ-RD12EB	563	57-20	1104	57A126-1	2016	57A256-10	2041	57B113-9	2030	57B160-6	2016
33J003-2	1122	56-1	1123	57-21	1104	57A126-12	2016	57A258-8	2023	57B117-9	1617	57B160-7	2016
33J004-1	561	56-2	1123	57-22	1104	57A128-9	2030	57A259-10	1067	57B118-12	1617	57B160-8	2016
53K001-2	1123	56-3	1123	57-23	1104	57A129-9	2030	57A263-11	2055	57B119-2	2016	57B166-12	2016
53K001-4	561	56-4	1123	57-24	1104	57A131-10	2030	57A265-4	1617	57B119-12	1617	57B167-9	2030
53K001-5	1123	56-5	1122	57-27	1104	57A133-12	2023	57A268-9	1617	57B120-12	1617	57B169-2	2035
53K001-6	1104	56-8	1123	57-28	1104	57A134-12	2016	57A279-14	2020	57B121-9	1617	57B169-12	2035
53K001-6(5,7)	1104	56-10	1123	57-31	1104	57A135-12	1617	57A280-14	2009	57B122-9	2023	57B170-9	2030
33K001-7	1104	56-11	1123	57-33	1104	57A136-12	1617	57A281-14	2023	57B122-9A	2023	57B175-9	2041
33K001-7(6,8)	1104	56-16	565	57-38	1104	57A137-12	2023	57A282-12	1617	57B125-9	1617	57B175-9A	2041
33K001-11	1104	56-19	562	57-42	1114	57A137-12A	2023	57A286-10	2020	57B126-12	1617	57B175-12	2023
33K001-14	562	56-20	1123	57-42A	1114	57A138-4	2009	57A290-12	2035	57B128-9	2030	57B179-4	2016
33M001-18	562	56-24	1122	57-46	1104	57A138-4-e	2009	57A294-12	2009	57B129-9	1617	57B181-12	2009
53L001-1	1123	56-25	564	57-55	1067	57A139-1	2016	57A305-12	2023	57B130-9	2023	57B182-12	2009
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53L001-10	1123	56-27	1122	57-59	1104	57A139-3	2016	57A312	2055	57B131-10	2020	57B185-12	2023
53L001-15	1122	56-28	1122	57-60	1104	57A139-4	2009	57A313-11	2055	57B132-10	2027	57B186-11	2055
53N001-1	1123	56-33	1104	57-64	1114	57A139-4-6	2016	57A402-4	2016	57B133-12	2023	57B187-12	2020
33N001-2	1104	56-35	1617	57-65	1104	57A140-12	1617	57A403-12	2023	57B134-12	2016	57B191-12	1617
33N001-3	1104	56-44	565	57-120	563	57A141-4	2016	57A419-GR	2009	57B135-12	1617	57B194-11	1617
33N001-5	1122	56-46	562	57-629	561	57A142-4	2009	57A419-GY	2009	57B136-12	1617	57B198-11	2055
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33N002-2	1104	56-52	1104	57-RECT-SI-154(AU)	1104	57A143-12	2016	57A420-GR	2023	57B137-12A	2023	57B243-10	1067
53N003-1	1123	56-53	563	57-RECT-SI-1021(AU)		57A144-12	2016	57A420-Q	2023	57B138-4	2009	57B258-8	2023
53N003-2	1123	56-56	1122		1104	57A145-12	2023	57A458-O	2023	57B139-4	2009	57B263-11	2055
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53N004-6	1123	56-59	565	57A3-2	2009&23	57A147-12	2023	57B2-38	2030	57B142-2	2016	57B282-12	1617
33N004-7	1104	56-62	562	57A3-13	2009&23	57A148-12	2023	57B2-57	2030	57B141-3	2016	57B286-10	2020
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33N004-9	1104	56-89	1123	57A5-7	2016	57A150-12	2035	57B2-62	1617	57B142-1	2016	57B402-4	2016
33N004-10	1123	56-93	1122	57A5-8	2016	57A151-6	2016	57B2-63	1617	57B142-2	2016	57B402-4(C535B)	
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53N004-12	1122	56-4827	2016	57A6-7	1617	57A153-6	1617	57B2-70	2023	57B142-4	2009	57B402-L	2016
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53P158	1617	56-4837	563	57A6-18	2009&23	57A156-9	1617	57B2-71A	2023	57B143-3	2016	57B419-Q	2009
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33P161	2009	56-4886	1123	57A7-1	2016	57A157-9	2023	57B2-79	2009	57B143-5	2016	57B420-Q	2023
33P162	2009	56-8086	2016	57A10-1	2016	57A159	2023	57B2-85	2009	57B143-6	2016	57C5-6	2016
33P163	1617	56-8086A	2016	57A10A-8-6	2016	57A159-12	2023	57B2-87	1617	57B143-7	2016	57C5-7	2016
33P165	1617	56-8086B	2016	57A14-2	2030	57A164-4	2016	57B2-97	1617	57B143-8	2016	57C5-8	2016
33P166	2023	56-8086C	2016	57A15-2	1617	57A166-12	1617	57B2-101	1617	57B143-9	2016	57C6-4	1617
53P169	2030	56-8087	2016	57A15-3	1617	57A169-12	2035	57B2-102	1617	57B143-10	2016	57C6-7	1617
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57C7-2	2016	57M1-26	1617	62-18135	1104	63-9829	1617	63-12940	1617	65P284	1104	66X14-C	1104
57C7-3	2016	57M1-27	1617	62-18425	1617	63-9830	1617	63-12941	1617	65P297	1104	66X14C	1104
57C7-4	2016	57M1-28	1617	62-18431	1104	63-9831	1617	63-12942	1617	65ST-25C454B	2009	66X16	1104
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57C7-6	2016	57M1-30	1617	62-18435	1104	63-9833	1617	63-12944	2009	66-6030-00	1104	66X19	1104
57C7-7	2016	57M1-31	1617	62-18436	1104	63-9847	1617	63-12946	1617	66-6031-00	1104	66X20	1123
57C7-8	2030	57M1-32	1617	62-18438	1104	63-9942	563	63-12948	1617	66-8504	1114	66X23	1104
57C7-9	1617	57M1-33	2030	62-18641	1617	63-10064	1104	63-12949	1617	66-11502-02	2009	66X24	1104
57C7-10	1617	57M1-34	2030	62-18642	1617	63-10188	1617	63-12950	1617	66-11502-03	2009	66X26	1104
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57C7-17	1617	57M2-11	2030	62-18782	1122	63-10706	1617	63-12952	1617	66-19013-07J	2009	66X41-1	1101
57C7-18	1617	57M2-14	2030	62-18828	1617	63-10709	1104	63-12953	1617	66-19014-03J	2009	67-1000-00	1104
57C7-20	1617	57M2-18	2030	62-19115	1104	63-10725	1617	63-12958	2030	66-19014-03S	2009	67-1003-00	1104
57C10-1	2016	57M3-1	2041	62-19280	1617	63-10732	1617	63-12990	2030	66-20438-00	2027	67-31212-04	563
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57C11-1	1617	57M3-2	2041	62-19516	1617	63-10734	1617	63-13214	2030	66-29015-03S	2023	67-34003-06	1102
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57C14-1	2030	57M3-4	2041	62-19581	2016	63-10736	1617	63-13322	2023	66-P11120	2023	67-35402-06	1143
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57C15-3	1617		1104	62-19846	1123	63-11074	1123	63-13441	1617	66F001-1	1104	67J2	1114
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57C20-1	2016	58ST-25A1029C	2023	62-20242	1617	63-11471	1617	63-14032	1617	66F022-1	2016	68A9025	1801
57C24-1	1617	58SZ-RD6.2EB3	561	62-20243	1617	63-11472	1617	63-14051	1617	66F023-1	2023	68A9028	1802
57C24-2	1617	59-5D-1N34A(AU)	1123	62-20244	2023	63-11660	1617	63-14052	1617	66F024-1	2023	68ST-MPS9700E	2009
57C24-3	1617	59E001-1	1122	62-20244A	2023	63-11757	1617	63-14057	1617	66F025-1	2030	68SZ-RD12FB3	563
57C24-4	1617	59SD-1N34A(AU)	1123	62-20319	1122	63-11758	1617	63-14195	1104	66F026-1	2016	69-1810	2009
57C27-1	1617	59SD-1N34A(AU)		62-20360	1617	63-11759	1617	63-15483	1104	66F027-1	1617	69-1811	2009
57C27-2	2016	{,1N34A(AU)	1123	62-20437	1122	63-11762	1114	63-18643	1617	66F028-1	1617	69-1812	2009
57C104-8	2016	60-3	1104	62-20597	1122	63-11825	2009	63-19280	1617	66F029-1	1617	69-1813	2009
57C105-12	2009	60-SZ-RD9.1EB2	562	62-20643	564	63-11831	1617	63-19282	1617	66F041-1	2023	69-1814	2030
57C109-9	2030	60C	1104	62-21369	1104	63-11832	1617	63-22724	1123	66F042-1	2016	69-1816	2016
57C121-9	1617	60D	1104	62-21496	1617	63-11833	1617	63-25342	1123	66F057-1	1617	69-1820	1123
57C142-4	2016	60DE10	1114	62-21552	1122	63-11879	1123	63-25933	1123	66F057-2	1617	69-1822	1122
57C156-9	1617	60H	1104	62-22038	1617	63-11881	1104	63-26382	1123	66F084-1	2035	69-1823	1104
57C157-9	2023	60J2	1104	62-22039	1617	63-11934	1617	63-26597	1104	66J2	1104	69-2246	1104
57C157-90	2023	60LA	1114	62-22250	1617	63-11935	1617	63-27622	1104	66X002-001	1122	69-2922	1123
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57C182-12	2009	61-259	1123	62-112524	1123	63-11957	1104	63-29461	1617	66X0023-001	1104	69V097H62	2009
57C279-14	2020	61-746	1617	62-113998	1104	63-11989	2030	63J2	1104	66X0023-002	1114	70-ST-25C945Q	2009
57D1-1	1123	61-747	2030	62-114267	2016	63-11991	2041	63RECT-SI-1021	1104	66X0023-004	1104	70F40	1104
57D1-2	1123	61-751	1617	62-118825	1114	63-11991A	2041	64-1	1123	66X0023-005	1104	70N1	1617
57D1-51	1617	61-754	1617	62-125528	1122	63-12003	1617	64-8054-6	1104	66X0023-006	1104	70N1M	2016
57D1-54	1123	61-755	1617	62-126321	1122	63-12004	1617	64-J2	1104	66X0023-007	1104	70N2	1617
57D1-55	2009&23	61-813	2030	62-126856	1104	63-12062	1617	64-RECT-SI-1001(AU)	1103	66X0023-008	1104	70N3	2016
57D1-62	1123	61-814	1617	62-129604	2016	63-12154	2023		1103	66X0023-009	1114	70N4	1617
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57D1-76	2023	61-1320	1104	62-130047	562	63-12156A	2023		1103	66X0028-008	1114	70T40	1104
57D1-123	1617	61-1400	1617	62-130761	564	63-12157	2023	64T4	1067	66X0033-000	1104	70.01.704	1617
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57D19-3	2023	61-59395	1123	62ST-25C458C	2009	63-12641	1617	65-11502-03	2009	66X0044-001	1122	72-15	1104
57D19-10	2023	61B007-1	2016	63-7421	1617	63-12642	1617	65-744238	1101	66X0044-100	1122	72-18	1122
57D19-20	2023	61B007-2	2016	63-7433	1104	63-12645	1123	65-ST-25C454B	2009	66X0046-001	1122	72-ST-MPS9750F	2023
57D19-30	2023	61C001-1	1617	63-7567	1617	63-12696	1617	65A	2023	66X0047-001	1123	72-ST-MPS9750G	2023
57D24-1	2016	61C004-1	2030	63-7670	1617	63-12697	1617	65B	2023	66X0047-901	1123	72N1	2016
57D24-2	2016	61J2	1104	63-8381	1123	63-12706	1617	65C	2023	66X0048-001	1104	72N1B	2030
57D24-3	2016	61T4	1067	63-8555	1617	63-12707	1617	65C1	2023	66X0049-001(DIODE)	1104	72N2	2016
57D107-8	2016	62-7567	1617	63-8685	1104	63-12750	1617	65D	2023		1123	72N2B	1617
57D136-12	1617	62-8555	2009	63-8701	1617	63-12751	1617	65D1	2023	66X0049-002	1123	72ST-MPS9750F	2023
57D166-12	2016	62-10234	1123	63-8702	1617	63-12752	1617	65E	2023	66X0049-100	1123	72ST-MPS9750G	2023
57L2-1	2030	62-10655	1123	63-8707	2041	63-12753	1617	65E1	2023	66X0051-001	1123	72T2	2020
57L2-2	1617	62-12034	1123	63-8707A	2041	63-12754	1123	65F	2				

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74-ST-25C763D	2016	76N1(RBMOTE)	2009	80-013400	2016	83P3AA	2023	86-57-3	1104	86-139-2	1617	86-374-2	1617	
74-ST-25C785-O	2058	76N1(VID)	2016	80-40-1	1123	83P3AA1	2023	86-58-1	562	86-139-3	1104	86-327-2	1617	
74-ST-25C1906(AP)	2016	76N1B	2030	80-308-2	1617	83P3B	2023	86-58-2	1617	86-143-2	1617	86-328-2	1617	
74N1	1617	76N1W	1617	80-318250	1617	83P3B1	2023	86-58-3	1104	86-144-2	1617	86-330-2	2023	
74P1	2023	76N2	1617	80-337390	1617	83P3M	2023	86-59-1	1104	86-146-1	1173	86-316-2	2023	
74ST-25C763D	2016	76N2B	2030	80-338030	2016	83P3M1	2023	86-59-3	1104	86-146-3	1104	86-339-2	1617	
74ST-25C785-O	2058	76N3B	2030	80-338040	2016	83P4	2023	86-60-1	1123	86-147-1	1104	86-339-9	1617	
74T2	2020	76SD-1N4148(AU)	1122	80-339430	2016	84-SZ-RD12EB3	563	86-60-3	1104	86-147-3	1104	86-340-2	2023	
75	1104	76SD-1N4148(AU)	1122	80-339440	2016	84A20	1122	86-61-1	563	86-155-2	1617	86-340-20	2023	
75-100-001	1122	(1N4148)	1122	80-383840	2016	85	1102	86-62-1	1122	86-157-2	2009	86-342-2	1617	
75-ST-25D487C(AU)E	2009	76SI-HD14011BP	2411	80-383930	2016	85-5	1104	86-62-3	1104	86-158-2	1617	86-359-2	1617	
	2055	76Z4	363	80-383940	1617	85-ST-25A733Q	2023	86-63-3	1106	86-161-2	2030	86-362-2	1617	
75A198-11	1067	77(DIO)	1103	80-389910	1617	85-ST-25C458C(AU)E	2009	86-64-1	1123	86-166-2	1617	86-365-2	1617	
75D1	1067	77-271031-1	1123	80-389930	1617			86-65-1	562	86-170-2	2030	86-379-2	1617	
75D2	1067	77-271032-1	1123	80-414100	2041	85ST-25A733Q	2023	86-65-1	EQB01-12	562	86-171-2	1617	86-381-2	2009
75D04	1067	77-271334-1	1104	80-414130	2041	86	1102	86-65-3	1104	86-175-2	1617	86-386-2	2016	
75D05	1067	77-271374-1	1104	80-421980	1617	86-0002	1123	86-65-4	1122	86-178-2	2023	86-389-2	1617	
75D06	1067	77-271453-1	1617	80A5	1114	86-0005	562	86-65-9	1104	86-178-20	2023	86-390-2	1617	
75D1	1104	77-271490	2030	80A5	1114	86-0006	1104	86-67-0	1104	86-182-2	1617	86-391-2	1617	
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75DB	1114	77-271967-1	1617	81-27123100-3	1104	86-0007-004	1617	86-67-2	1104	86-183-20	2023	86-399-2	1617	
75D10	1114	77-272913-1	2020	81-27123150-8	1123	86-0008	1123	86-67-3(1N4004GP)	1104	86-185-2	2016	86-399-9	1617	
75E1	1104	77-272914-1	2027	81-27123300-3	1104	86-0016-01	1104	86-67-3(1N4005GP)	1103	86-186-2	2016	86-406-2	2016	
75E2	1104	77-272999-1	2030	81-27123307-3	1104	86-0022-001	1617	86-67-3(1N4005GP)	1104	86-188-2	1617	86-403-2	1617	
75E3	1104	77-273001-2	1617	81-27125140-7	1617	86-0029-001	1617		1104	86-189-2	1617	86-404-2	2023	
75E4	1104	77-273715-1	2020	81-27125140-7A	1617	86-0031-001	1617	86-67-3(151885)	1102	86-191-2	1617	86-407-2	2023	
75E5	1104	77-273716-1	2027	81-27125140-7B	1617	86-0036-001	2023	86-67-3(151887A)	1103	86-192-2	1617	86-416-2	2016	
75E6	1104	77-273738-1	2020	81-27125160-5	1617	86-0511	1104	86-67-3(151887A)	1103	86-194-2	1617	86-417-2	2016	
75E7	1114	77-273739-1	2027	81-27125160-5A	1617	86-0513	1123	86-67-3(151887AFA)	1104	86-195-2	1617	86-420-2	1617	
75E8	1114	77-55-2N5062	1067	81-27125160-5B	1617	86-0516	1102		1104	86-196-2	1617	86-423-2	2023	
75E9	1114	77A01	1122	81-27125270-2	1617	86-0521	563	86-67-3(151887AFA-1)	1104	86-196-2	1617	86-428-2	2030	
75E9-11	2043	77A02	1122	81-27125270-2A	1617	86-0522	1122		1103	86-199-2	1617	86-428-9	2009	
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75N5.1	565	77N2	1617	81-46123004-5	1104	86-4-1	1104		1102	86-205-2	2016	86-444-2	2016	
75N6.2	561	77N2B	2030	81-46123004-7	1104	86-7-1	1104	86-67-3(D5135C)	1104	86-207-2	2030	86-445-2	1617	
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75R2B	1104	77N5	1617	81-46123013-8	1123	86-10-1	1123	86-67-3(EM1Z)	1102	86-211-2	2030	86-458-2	1617	
75R3B	1104	77N6	1617	81-46123014-6	1104	86-10-1(15188)	1123	86-67-3(ERB12-01RK)	1102	86-217-2	2023	86-458-2	2023	
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75R5B	1104	78-908-002	1604	81-46123018-7	1104	86-14-1	1123	86-67-3(S5277B)	1104	86-218-1	2023	86-461-2	1617	
75R6B	1104	78-908-004	2068	81-46123029-4	1123	86-15-1	1123	86-67-3(S5277D)	1102	86-218-20	2023	86-462-2	1617	
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75R9B	1114	78-271031-1	1123	81-46125012-8	2016	86-22-1	1123	86-67-3(TVR2D)	1104	86-234-2	2030	86-465-2	2009	
75R10B	1114	78-271032-2	1123	81-46125013-6	2016	86-22-3	1104	86-67-3(V06C)	1102	86-237-2	1617	86-467-2	2016	
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75Z12	563	78-273085	1104	81-ST-25A1050(AU)B	86-34-3	1104	86-76-1	1122	86-255-2	1617	86-486-2	1617		
75Z12A	563	78-SZ-UZF-12B	563		86-35-1	2023	86-77-1	1122	86-256-2	1617	86-488-2	2016		
75Z12B	563	78A200010P4	1801	81T2	2630	86-35-3	1104	86-78-1	1122	86-262-2	2016	86-490-2	2016	
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75Z15	564	78C02	2016	82-40*501	1617	86-37-1	562	86-80-1	1104	86-263-2	2016	86-493-2	1617	
75Z15A	564	78HV05CU	1770	82-RECT-SI-154(AU)	1104	86-37-3	1101	86-80-3	1104	86-264-2	1617	86-494-2	1617	
75Z15B	564	78M05	1770	82N1	2016	86-38-1	1104	86-84-1	1104	86-265-2	1617	86-495-2	1617	
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76-1	2030	78M12	1771	83-1	2023	86-41-1	1122	86-88-3	1123	86-267-2	2030	86-500-2	2035	
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76-13866-19(VHF)	2016	79F114-3	2030	83P1A	2023	86-48-1	1123	86-109-3	1008	86-289-2	2016	86-520-2	1617	
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76-13866-62	2016	80-001400	1114	83P1M	2023	86-50-3	1104	86-111-3	1104	86-291-				

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
86-552-2	2023	86-5044-2	1617	86X0047-001	2023	88-1250108	2016	93A4-4	1104	93B1-10	1104	93C2-6	1123
86-554-2	1617	86-5045-2	1617	86X0048-001	1617	88-1250109	1617	93A6-1	1104	93B1-11	1104	93C5-1	1101
86-555-2	2023	86-5046-2	1617	86X0050-001	1617	88-ST-25A1015Y	2023	93A6-2	1104	93B1-12	1104	93C5-2	1101
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86-607-2	2009	86-100002	2058	86X8-1	1617	90-457	2009	93A45-2	1104	93B39-2	565	93C26-4	1104
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		86-100006	2058	86X34-1	1617	90-601	2009	93A51-3	1104	93B41	1123	93C27-1	1123
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86-5010-3	1122		2023	87-67-3	1114	92A11-1	1104	93A110-1	1123	93B60-8	1122	93C60-9-55	1104
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86-5012-3	1104	86X0038-001	2016	87-423-2	2023	92L102-2	1104	93A120	1104	93B64-2	1122	93C60-21-55	1104
86-5015-3	1122	86X0040-00	1617	87-593-2	2058	92N1	2016	93A664-2	1122	93B65-1	1114	93C60-26	1104

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93C97-1	1104	96-5107-02	2030	96XZ6053/35N	1617	100-215	1123	103-29	1104	103-284A	1104	106-351	2016
93C12-1	1114	96-5109-01	1104	96XZ6053/36N	1617	100-216	1122	103-31	1122	103-290	565	106A	1067
93C18-1	1114	96-5109-02	1104	96XZ6053/38N	2030	100-217	1102	103-34	1123	103-295	1104	106B	1067
93C18-2	1114	96-5110-02	564	96XZ6053-11N	2009	100-435	1122	103-42	1122	103-295-01	1122	106B6	1104
93C218	1123	96-5110-03	564	98-301	1104	100-436	1123	103-44	1123	103-295-01(,295-01)	1122	106C	1020
93C267	1101	96-5112-01	1114	98A12518	1104	100-438	1102	103-51	1122	103-295-01(,295-1)	1122	106F4	1067
93D39-43	563	96-5113-01	1104	98B5-4	1101	100-439	1123	103-59	1104	103-295-01A	1122	106M	2035
93D39-51	561	96-5115-01	1617	98T2	2009	100-520	1104	103-73	1123	103-295-01A	1122	106RED	2023
93D60-21-55	1104	96-5115-02	1617	99-109-1	1617	100-522	562	103-74	1123	103-295-02	1122	107-8	1617
93ERH-DX0155//	1104	96-5115-03	1617	99-109-2	1617	100-523	562	103-76	1104	103-295-02A	1122	107-3088	2009
93ERH-DX0156//	1104	96-5115-04	1617	99L6(SHARP)	2030	100-527	1102	103-79	1123	103-295A	1122	107A(SCR)	1067
93EVDH1N4148//	1122	96-5115-05	1617	99P1	2023	100-10121-05	1104	103-82	1104	103-298-05	1104	107B(SCR)	1067
93L5-1	1104	96-5117-01	2041	99P1M	2023	100-10132-00	1104	103-87	1123	103-298-05A	1104	107B6	1104
93L5-3	1114	96-5117-91	2041	99P6	2023	100A	1104	103-90	1123	103-301-13	562	107BRN	1617
93L5-4	1104	96-5118-01	1122	99P10	2023	100C	1114	103-96	1104	103-301-19A	564	107C	1020
93L5-5	1114	96-5131-01	2016	99S012	1617	100C-4R	1104	103-101	1122	103-308	563	107D	1020
93L5-6	1104	96-5133-01-02	563	99S012A	1617	100D10	1114	103-102	1123	103-308A	563	107N1	2030
93L5-7	1104	96-5133-02	563	99S012E	1617	100K10	1114	103-111	1114	103-315-03#	1104	107N2	1617
93L5-8	1114	96-5149-01	1143	99S016	2016	100N1	2016	103-114	1123	103-315-03A	1104	108	1104
93L101-2	1104	96-5152-01	1617	99S016-1	2016	100NTAS	2016	103-131	1122	103-315-06	1104	108(FARFISA)	1123
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93L103-4	1104	96-5153-01	1617	99S018	2016	100NIP(SOUND)	2009	103-142	1122	103-315-06A	1104	108-0068-12	2035
93L104-5	1114	96-5153-03	1617	99S018A	2016	100NIP(VID)	2016	103-142-01	1122	103-315-06A	1104	108-6	2023
93L107-2	1104	96-5162-03	2041	99S019	2016	100N3	2009	103-142-01(,ITT142)	1122	103-326	1104	108-60	2023
93P1AA	2023	96-5162-04	2041	99S019A	2016	100N3P	2016	103-326A	1104	103-326A	1104	108-74	1123
93SC165	2041	96-5163-01	2016	99S019B	2016	100R1B	1104	103-330	1103	103-330	1103	108A	1067
93SC165133	2041	96-5164-02	2041	99S020	1617	100R2B	1104	103-330(,ITT330419)	1122	103-330(,ITT330419)	1122	108A4	1104
93SC165133A	2041	96-5164-03	2041	99S025	2009	100R3B	1104	103-142-01(,R142)	1122	103-330A	1103	108B	1067
93T6	2016	96-5166-01	1104	99S025A	1617	100R4B	1104	103-145	1122	103-330A	1103	108B4	1104
93T4100203100	2009	96-5170-01	2030	99S031	2016	100R5B	1104	103-145-01	1104	103-409	563	108B6	1104
93T4105002132	2020	96-5174-01	2016	99S032	2016	100R6B	1104	103-158	563	103-765-01	2023	108C	1020
93T4120265210	562	96-5175-01	2016	99S032(3RD-LF)	2009	100R7B	1114	103-159	1122	103-29001	1123	108D	1020
93T4120280156	1123	96-5177-01	1617	99S033	2016	100R8B	1114	103-178	1122	103-29003	563	108E-2	1104
93T4120290136	1123	96-5178-01	1114	99S033-40	2009E23	100R9B	1114	103-185	1104	103-29006	565	108F	1067
93T4130060052	1104	96-5180-01	2030	99S035	1617	100R10B	1114	103-191	1104	103-29008	561	108GRN	2023
93.24.401	1123	96-5180-02	2030	99S036	1617	100T2	2041	103-192	1122	103-29011	563	108Q	1067
93.24.601	1123	96-5184-01	1143	99S036(TELEDYNE)	2030	100T2A	2041	103-193-01#	1104	103-29013	564	108Y	1067
93.24.604	1123	96-5187-01	1617	99S037	2016	100W1	2016	103-196##	1104	103B6	1101	109	1617
94.2-9	1123	96-5193-01	1114	99S038	1617	100X6	2041	103-202	1123	103G3125	1104	109-036500	1123
94-1066-1	1104	96-5194-01	1114	99S039	2023	100X6A	2041	103-203	1104	103G3125A	1104	109-1	2009
94A80-1	563	96-5196-01	1104	99S044	2016	101-0373-00	2009	103-212-76	1104	103P(AIRLINE)	2023	109-1(RCA)	1617
94N1	1617	96-5198-01	2016	99S055	2058	101-2(ADMIRAL)	2016	103-216	1104	104-17(RCA)	2023	109-192	1123
94N1B	1617	96-5199-01	2016	99S056	2058	101-3(ADMIRAL)	2016	103-222	1122	104B6	1104	109B6	1104
94N1R	1617	96-5201-01	2041	99S074	2030	101-4(ADMIRAL)	2016	103-228	1104	104H01	2030	110	2023
94N1V	2030	96-5203-01	2030	99S075	2020	101B6	1104	103-240	1122	104T2	2041	110-629	1104
94N2	1617	96-5204-01	2030	99S079	2055	101P1	2023	103-244#	1104	105	1123	110-635	1104
95	1122	96-5207-01	2041	99S079-1	2055	101P10	2023	103-245	1104	105(ADMIRAL)	1617	110-636	1114
95-125	2016	96-5208-01	2030	99S083-1	2020	102-02	1123	103-247#	1104	105-001-04	2009	110-672	1104
95-126	2016	96-5213-01	1617	99S084-1	2023	102-0373-00	2009	103-254	1104	105-001-05	2009	110-684	1104
95-127	2016	96-5214-01	1067	99S085	1617	102-0394-25	2009	103-254##	1104	105-001-07	2009	110-763	1123
95-128	2016	96-5215-01	2023	99S090-1	2016	102-0454-02	2009	103-254-01	1104	105-001-08	2016	110B6	1114
95-129	2016	96-5228-01	1617	99S099-1	2027	102-0460-02	2009	103-254-01(,254G1)	1104	105-005-04/2228-3	2016	110P1	2023
95-130	2016	96-5229-01	1617	99S100-1	2020	102-0461-02	2009	103-254-01(,H254E4)	1104	105-005-12	2016	110P1AA	2023
95-151	2016	96-5231-01	2030	100-003-40/228-3	1123	102-0535-02	2016	105-008-04/2228-3	2016	105-006-08	1617	110P1M	2023
95-216	1617	96-5235-01	2016	100-003-40/2228-3	1123	102-0732-28	2016	105-008-04/2228-3	2016	111-4-2020-0860	1123	111-4-2020-0860	1123
95-220	2030	96-5236-01	2016	100-007-10/228/3	1122	102-0735-02	2009	103-254-01(,H284D4)	1104	105-009-21/2228-3	2016	111-4-2020-05600	1123
95-221	1617	96-5237-01	1617	100-007-13/228-3	1123	102-0735-25	2009	105-00106-00	1104	105-00107-09	2016	111-4-2020-06100	1123
95-223	2016	96-5244-01	2030	100-007-13/2228-3	1123	102-0828-17	2009	103-254-01(,TZ4C254)	1104	105-00107-09	2016	111-4-2020-08000	1104
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95-226-004	2030	96-5252-01	2030	100-00310-09	1122	102-0945-17	2009	103-254-01(,TZ4E254)	1104	105-060-09	1617	111-4-2020-14500	1104
95-226-2	1617	96-5254-01	1122	100-00340-00	1123	102-0945-38	2009	105-085-33	1104	105-085-33	1617	111-4-2020-14600	1104
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95-227	1617	96-5256-01	2030	100-00914-10	1123	102-4	2016	103-261###	1104	105-02005-07	2016	111N1	2043
95-296	1617	96-5257-01	1617	100-011-20	1122	102-207	1123	103-261-02###	1104	105-02006-05	2016	111N2	2041
95-11511500	1114	96-5258-01	2023	100-011-50/2228-3	1122	102-339	1122	103-261-02A	1104	105-02008-01	2016	111N4	2041
95G	1104	96-5259-01	2016	100-0124	1123	102-412	1122	103-261-03##	1104	105-06004-00	2016	111N4A	2041
96-0008	1123	96-5260-01	2016	100-0125	1123	102-1047-03	2016	103-261-04	1104	105-06007-05	1617	111N4B	2041
96-138-2	2016	96E15953	1122	100-0495-15	2023	102-1061-01	2020	103-261-04A	1104	105-08243-05	2009	111P1	2043
96-5007-01	1123	96E152076A	1122	100-0673-04	2023	102-1166-25	2009	103-271	1123	105-904-85	2009	111P7	2043
96-5007-02	1123	96E25A733	2023	100-01110-01	1122	102-1317-18	2009	103-272	562	105-904-86	2009	112-000172	2023
96-5022-01	1104	96E25C945	2009	100-01120-09	1122	102-1335-04	2016	103-279-01	563	105-904-87	2009	112-000185	2023
96-5022-1	1104	96E25C1213	2009	100-11	1122	102-1342-02	2016	103-279-09	565	105-931-91/2228-3	1617	112-000187	2023
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96-5046-01	1104	96N(AIRLINE)	2016	100-13	1104	102-1675-02	2058	103-279-10	565	105-24191-04	2016	112-1A82	1617
96-5059-01	1123	96N927	2016	100-14	562	102-1675-11	2009	103-279-10A	565	105-28196-07	1		

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112-203055	2041	120-2	1617	121-500	2030	121-679	2023	121-831#	2055	121-973	2023	121-Z9044	2055
112-203391	2016	120-3	1617	121-501	2009	121-679GREEN	2023	121-834	2016	121-973(,ITT973)	2023	121-Z9047	2020
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115	2023	121-31	1123	121-521	2058	121-699-02	2023	121-853	2020	121-978-03C	2023	122-6	1617
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116-082	2016	121-345	2016	121-580	2016	121-731	2035	121-876	2016	121-992-01	2020	123-022	1122
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				229-0182	2009	250-0137	2016	260P08819	2009	260P17724	2016	264P01319	1104
				229-0183	2009	250-0138	2016	260P08820	2009	260P17725	2016	264P01320	1104
				229-0184	2009	250-0139	2016	260P08821	2009	260P17726	2016	264P01321	1104
				229-0185	2009	250-0140	2016	260P08822	2009	260P17727	2016	264P01322	1104
				229-0186	2009	250-0141	2016	260P08823	2009	260P17728	2016	264P01323	1104
				229-0187	2009	250-0142	2016	260P08824	2009	260P17729	2016	264P01324	1104
				229-0188	2009	250-0143	2016	260P08825	2009	260P17730	2016	264P01325	1104
				229-0189	2009	250-0144	2016	260P08826	2009	260P17731	2016	264P01326	1104
				229-0190	2009	250-0145	2016	260P08827	2009	260P17732	2016	264P01327	1104
				229-0191	2009	250-0146	2016	260P08828	2009	260P17733	2016	264P01328	1104
				229-0192	2009	250-0147	2016	260P08829	2009	260P17734	2016	264P01329	1104
				229-0193	2009	250-0148	2016	260P08830	2009	260P17735	2016	264P01330	1104
				229-0194	2009	250-0149	2016	260P08831	2009	260P17736	2016	264P01331	1104
				229-0195	2009	250-0150	2016	260P08832	2009	260P17737	2016	264P01332	1104
				229-0196	2009	250-0151	2016	260P08833	2009	260P17738	2016	264P01333	1104
				229-0197	2009	250-0152	2016	260P08834	2009	260P17739	2016	264P01334	1104
				229-0198	2009	250-0153	2016	260P08835	2009	260P17740	2016	264P01335	1104
				229-0199	2009	250-0154	2016	260P08836	2009	260P17741	2016	264P01336	1104
				229-0200	2009	250-0155	2016	260P08837	2009	260P17742	2016	264P01337	1104
				229-0201	2009	250-0156	2016	260P08838	2009	260P17743	2016	264P01338	1104
				229-0202	2009	250-0157	2016	260P08839	2009	260P17744	2016	264P01339	1104
				229-0203	2009	250-0158	2016	260P08840	2009	260P17745	2016	264P01340	1104
				229-0204	2009	250-0159	2016	260P08841	2009	260P17746	2016	264P01341	1104
				229-0205	2009	250-0160	2016	260P08842	2009	260P17747	2016	264P01342	1104
				229-0206	2009	250-0161	2016	260P08843	2009	260P17748	2016	264P01343	1104
				229-0207	2009	250-0162	2016	260P08844	2009	260P17749	2016	264P01344	1104
				229-0208	2009	250-0163	2016	260P08845	2009	260P17750	2016	264P01345	1104
				229-0209	2009	250-0164	2016	260P08846	2009	260P17751	2016	264P01346	1104
				229-0210	2009	250-0165	2016	260P08847	2009	260P17752	2016	264P01347	1104

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264P19306(,EQA02-11CDB)	563	276-1171	1171	276-2401	2401	296V015H01	1123	301-1	1101	325-0031-310	1617	350D7217(,25C945-TO)	2009
264P22103	563	276-1173	1173	276-2411	2411	296V017H01	563	301-576-4	1801	325-0033-335	1123	350E9201(,25A733A)	2023
264P22103(,HZ312A)	563	276-1180	1180	276-2413	2413	296V018B01	563	301-576-6	2030	325-0031-338	1104	350K3516(,25A733A)	2023
264P23101	1104	276-1181	1181	276-2417	2417	296V019B01	568	303-1	2023	325-0036-562	1123	350K3517(,25A733A)	2023
264P23101(,TVR-1G)	1104	276-1185	1185	276-2449	2449	296V019B04	563	306-1	1617	325-0042-311	1171	350K3517(,25A733P)	2023
264P28501	1104	276-1303	1303	276-2520	2520	296V020B01	1122	306-8	2009	325-0042-351	1617	350K3517(,25A733Q)	2023
264P28501(,55500-D)	1104	276-1307	1307	276-2521	2521	296V020B02	1104	307-095-9-002	2411	325-0047-517	1104	350K3517(,25A733R)	2023
264P29004	563	276-1308	1308	281	1617	296V024B01	1123	307-107-9-003	705	325-0054-312	1104	350K3517(,25A733S)	2023
264P39802	1173	276-1603	2009	288(SEARS)	1104	296V024B02	1122	307-113-9-001	2411	325-0076-306	1617	350K3517(,25A733T)	2023
264Z00201	1104	276-1604	1604	290-1003	1122	297L006H01	1617	307-143-9-004	2035	325-0076-307	1617	350K3517(,25A733U)	2023
264Z00701	1123	276-1617	1617	290V02H69	2016	297L006H02	1617	307-152-9-012	2411	325-0076-308	1617	350K3517(,25A733V)	2023
265-1	1617	276-1705	1705	290V034C01	1114	297L007C02	1617	307A	1104	325-0076-315	1104	350K3517(,25A733W)	2023
265D00702	1122	276-1711	1711	291-04	1104	297L007H01	1617	307B	1104	325-0081-100	1617	350K3517(,25A733X)	2023
265Z00101	1122	276-1712	1712	291-20	1104	297L007H02	1617	307C	1104	325-0081-101	1617	350K3517(,25A733Y)	2023
266-1	1122	276-1715	1715	292-10	1104	297L007H03	1617	307D	1104	325-0081-110	1104	350K3517(,25A733Z)	2023
266-1F	1122	276-1718	1718	294	2023	297L007H03/C03	2009	307F	1104	325-0135-B	1104	351-3031	1122
266P00101(XSTR)	2009	276-1723	1723	294-42-9	1123	297L008C02	2030	307H	1104	325-0141-23	1104	352-0197-000	1617
266P62103	007	276-1728	1728	294-92-2	2009	297L008H01	2030	307K	1104	325-0500-12	2016	352-0677-040	2041
266P62103(,LM741CN)	007	276-1731	1731	295-01	1122	297L010C01	2023	307M	1104	325-0500-13	2016	352-0677-051	2041
266P62103(,UA741CP)	007	276-1740	1740	295-03	1104	297L012C01	2023	309-324-616	1123	325-0574-30	1617	353-9318-001	1617
266P62103(,UPC741C)	007	276-1770	1770	295-1	1122	297L013B01	1617	309-327-803	1114	325-0574-31	1617	353-9318-001	1617
269M01201	1122	276-1771	1771	295-95-1	1712	297L013B02	2023	309-327-910	1104	325-0670-16	1104	353-9318-001	1617
276-007	007	276-1772	1772	295L001H01	1104	297V019B04	563	309-327-916	1123	325-1370-19	1617	353-9318-001	1617
276-018	018	276-1778	1778	295L001M01	1104	297V027C01	1104	309-327-926	1617	325-1370-20	1617	353-9318-002	1617
276-021	021	276-1801	1801	295L001M02	1104	297V049H01	1617	309-327-927	1104	325-1376-60	1123	353-9318-002	1617
276-022	022	276-1802	1802	295L002H01	1104	297V049H02	1617	309-327-932	1104	325-1378-18	2016	353-9318-003	1617
276-025	025	276-1805	1805	295L003M01	1104	297V049H04	1617	310-4	1104	325-1378-19	1104	353-9318-001	1617
276-026	026	276-1808	1808	295V002H01	1104	297V049H05	1617	310-4	1104	325-1441-10	2016	353-9318-001	1617
276-030	030	276-1822	1822	295V005H02	1104	297V049H06	2030	310-187	1617	325-1441-11	1104	353-9318-001	1617
276-033	033	276-2009	2009	295V005H03	1123	297V050H01	1101	31124	563	325-1446-26	2030	353-9318-001	2016
276-036	036	276-2009/RS2009	2009	295V006H01	1104	297V050H02	1101	314-6007-1	1617	325-1446-27	2030	353-9318-002	2016
276-037	037	276-2010	2010	295V006H02	1104	297V059H01	1617	314-6007-2	1617	325-1446-29	1104	353-9318-002	1617
276-038	038	276-2010/RS2010	2009	295V006H03	1104	297V059H02	1617	314-6007-3	1617	325-1513-29	1617	353-9318-002	1617
276-041	041	276-2011	2011	295V006H05	1104	297V059H03	1617	314-6010-3	2009	325-1513-30	1617	353-9318-002	2016
276-045	045	276-2011/RS2011	2016	295V006H07	1104	297V061C01	2041	315	1104	325-1513-46	2030	353-9318-001	1123
276-066	066A	276-2013	1617	295V006H09	1104	297V061C01A	2041	315-6CGI	1104	325-1771-15	1617	354-9101-002	1123
276-066A	066A	276-2013/RS2013	1617	295V007H02	1104	297V061C02	2041	317T	1778	325-1771-15	1617	354-9101-006	1104
276-068	068	276-2014	2009	295V008H01	1104	297V061C02A	2041	320A	1104	325-1771-16	2016	354-9101-001	1104
276-069	069	276-2014/RS2014	2009	295V012H01	1104	297V061C03	1617	320B	1104	325-4610-100	1114	354-9110-001	1104
276-075	075	276-2015	2016	295V012H02	1104	297V061C04	1617	320C	1104	330GI	1122	355D6	2016
276-081	081	276-2015/RS2015	2016	295V012H03	1104	297V061C05	2030	320D	1104	331-1	2020	355D8	2016
276-116	116	276-2016	2016	295V012H04	1104	297V061C06	1617	320E	1104	335-1	2020	355D9	1617
276-124	124	276-2016/RS2016	2009	295V014H01	1104	297V061C07	1617	320H	1104	339	1712	355D9	1617
276-134	134	276-2017	2017	295V014H04	1104	297V061H01	1617	320K	1104	339 529-001	1123	359A	1104
276-142	142	276-2017/RS2017	2020	295V014H07	1104	297V061H02	1617	320M	1104	342-1	2030	359B	1104
276-143	143	276-2019	2020	295V015H02	1104	297V061H03	1617	320P	1114	344-1	2030	359C	1104
276-145	145	276-2019/RS2019	2020	295V016H01	1104	297V062C06	2030	320S	1114	344-6000-2	1617	359D	1104
276-151	561	276-2020	2020	295V017H01	1104	297V070H49	2016	320Z	1114	344-6000-3	2016	359E	1104
276-152	562	276-2022	2023	295V020B01	1104	297V072C01	2016	322-0147	1104	344-6000-3A	2016	359K	1104
276-156	563	276-2022/RS2022	2023	295V020H01	1104	297V072C03	2016	324(IC)	1711	344-6000-4	1617	359M	1104
276-1562	562	276-2023	2023	295V022H01	1104	297V072C04	2016	324-0014	1123	344-6000-5	1617	359P	1114
276-1563	563	276-2023/RS2023	2023	295V027C01	1104	297V072C05	2030	324-0015	1101	344-6000-5A	1617	359S	1114
276-1564	564	276-2024	2023	295V027C01-1	1104	297V072C06	1617	324-0035	1104	344-6001-1	2030	359V	1114
276-1565	565	276-2024/RS2024	2023	295V028C01	1104	297V073C03	2023	324-0037	1123	344-6001-2	2030	359Z	1114
276-1566	566	276-2025	2027	295V028C02	1104	297V073C04	2023	324-0049	1123	344-6002-3	1617	360-1	2030
276-1567	567	276-2025/RS2025	2027	295V028C03	1104	297V074C01	2016	324-0057	1123	344-6005-1	1617	360-32	1122
276-1568	568	276-2027	2027	295V028C04	1114	297V074C02	1617	324-0093(PHILCO)	1123	344-6005-2	2009	360K1010	1122
276-1570	570	276-2028	2035	295V029C01	1104	297V074C03	1617	324-019	2030	344-6005-5	1617	360K1015	1122
276-15702	702	276-2030	2030	295V029C02	1104	297V074C04	1617	324-0105	1123	344-6005-6	1122	360K1027	1122
276-15703	703	276-2030/RS2030	2009	295V031B02	1101	297V074C06	1617	324-0107	1123	344-6006-6	1123	360K3039	563
276-15704	704	276-2031	2009	295V031C02	1101	297V074C07	1617	324-0107-01	1123	344-6011-1	2030	360K3098	563
276-15705	705	276-2031/RS2031	2009	295V035C01	1104	297V074C08	1617	324-0108	1123	344-6011-2	2030	360K3100	563
276-15706	706	276-2032	2023	296-42-9	1123	297V074C09	2016	324-0117	1104	344-6013-1B	1104	360K3106	561
276-15707	707	276-2032/RS2032	2023	296-50-9	1617	297V074C10	2030	324-0119	1104	344-6013-4	2030	361-1	2017
276-15708	708	276-2033	2009	296-51-9	1617	297V074C12	2030	324-0120	1104	344-6015-7	2016	361K7086	1103
276-15709	709	276-2033/RS2033	2009	296-55-9	2009	297V078C01	2016	324-0135	1104	344-6015-7A	2016	361K7090	1104
276-15710	710	276-2034	2023	296-56									

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366-2(SYLVANIA)	2016	399B	1143	417-231	2035	430-25765	2016	500B10	1114	530-088-1003	1114	561-2556-250	1122
369-2	1104	399C	1143	417-233	1617	430-25766	1617	500S10	1114	530-088-1004	1114	561-2556-270	1122
369-3	1104	399D	1143	417-235	2023	430-25767	2016	501-363-2	1143	530-094-1	1104	561-2556-290	1122
369HHD	065	400A	1123	417-237	2030	430CL	1617	501E5001M	2016	530-095-1	1104	561-2556-360	1123
370-1	2055	400C-11958	1104	417-237-13163	2030	432-1	2030	502	2009	530-098-1	1104	561-2556-450	1104
374-1	2035	400D	1123	417-241	2035	433	2009	503-T10192	1114	530-099-1	1104	561-2556-590	1122
378-1	2035	403-009/07	2041	417-243	2016	433(ZENITH)	1617	503-T21271	1123	530-099-3	1104	561-2556-620	1122
378-44	2041	403-1	1123	417-244	1617	433-1(SYLVANIA)	2009	503-T21472	1123	530-099-4	1104	561-2556-950	1123
378-44A	2041	404-1(SYL)	2009	417-246	2035	433CL	1617	509	2009	530-106-1	1104	561-2557-050	565
380-2	2055	404-2	2016	417-247	2030	434	2016	509-1	2055	530-106-1001	1114	561-2557-092	561
380H61	1104	404-2(SYLVANIA)	1617	417-250	2030	434-1	2023	510A-90	1123	530-109-1	1104	561-2557-161	563
383(IC)	703	405-2	2058	417-252	2035	434-1,,	2023	510A90	1123	530-111-1	1104	561-2560-501	565
384A	1104	411-237	2030	417-253	2035	434-4	2023	510ED46	1123	530-111-1001	1114	561-2560-530	561
384B	1104	412-1A5	1617	417-257	2030	435-1	2009	510IN60	1123	530-113-1	1104	561-2560-531	561
384C	1104	414	2009	417-258	2016	435-1,,	2009	510IS34	1123	530-120-1	1104	561-2560-757	562
384D	1104	417-7	1617	417-262	2016	435-2	2009	510LN60	1123	530-136-T	1114	561-2560-816	561
384F	1104	417-19	2016	417-283	2009	435-2,,	2009	510LS34	1123	532-341	1104	561-2560-820	561
384H	1104	417-49	2030	417-286	2041	435-21026-0A	1801	511-515	1617	532-341A	1104	561-2560-823	561
384K	1114	417-59	2030	417-298	2020	435-21028-0A	1802	511-519	1617	536-1	2016	561-2560-825	561
384M	1114	417-67	2009	417-801	2009	435-21029-0A	1822	511-898	1104	536-2	2016	561-2560-914	1122
384P	1114	417-69	1617	417-821	2009	435-40012	1104	5115345	1123	536DP	2058	561-2560-915	1122
384S	1114	417-77	2009	417-822	2023	442-1	2009	512RED	1617	536FS	1617	561-2560-935	562
384V	1114	417-84	2016	417-852	2017	442-22	007	513-891	1101	536FU	1617	561-2560-963	563
384Z	1114	417-85	2016	417-865	2023	442-54	1770	515	1617	536GT	2016	561-2561-313	562
385A	1104	417-87	2030	417-874	1604	442-63	1772	515-299	1104	536J2F	1104	561-2561-766	561
385B	1104	417-88	2030	417-875	2009	442-602	1711	515-521	2016	537FS	2016	561-2583-606	1122
385C	1104	417-89	2030	417-923	2055	442-612	1731	516	1617	537J2F	1104	561-2583-608	1122
385D	1104	417-91	2016	417-937	2009	442-663	1771	517-0021	1104	538J2F	1104	561-2590-090	1122
385F	1104	417-92	1617	419-2	2058	442-674	1771	517-0025	1104	539J2F	1104	561-2591-480	1122
385H	1104	417-93	1617	420-1	2023	442-704	1778	517-0031	1104	540-008	1144	561-2591-540	1122
385K	1104	417-94	2009	420-2003-173	1114	442-713	703	517-0033	1104	540-010	1104	561-2594-480	1122
385KW	1104	417-101	2041	420-2104-570	1114	443-1	1801	517-518	1617	540-014	1104	561-2597-321	565
385M	1104	417-105	2016	421-1	2020	443-7	1808	518-499	1104	540-015	1143	561-2597-350	561
385P	1114	417-106	2016	421-2	2027	443-7-16088	1808	519-1	2009	540J2F	1104	561-2597-351	561
385S	1114	417-107	2058	421-3	2020	443-18	1802	519E5067M	2009	544-2003-005	1772	561-2597-383	562
385Z	1114	417-108	1617	421-4	2027	443-36	1805	519E5068M	2009	544-2006-011	703	561-2597-420	563
386	1731	417-109	1617	421-5	2020	443-45	1822	521-081	1123	544-2009-555	1723	561-2597-421	563
386-1	2023	417-110	1617	421-4027	1104	443-603	2411	521-094	1104	544-2020-002	1711	561-2597-440	564
386-1(SYLVANIA)	2023	417-114	1617	421-7443	1104	443-607	2413	521-145	1123	544-3001-103	2401	561-2597-441	564
386-1AY	1104	417-116	2023	421-7443A	1104	443-629	1808	521-9189	026	544-3001-117	2417	561-2598-250	565
386-1CY	1104	417-118	2009	421-7444	1617	443-703	2401	521-9246	041	544-3001-140	2449	561-2600-230	562
386-1FY	1104	417-124	2016	421-8111	1617	443-794	2520	521-9249	041	546	2016	561-2602-300	565
386-7118P1	2016	417-125	2016	421-9644	1617	443-795	2521	521-9256	041	547J2F	1114	561-2602-310	562
386-7178P1	1617	417-126	1617	421-9670	1617	443-929	2417	522	2009	549-2	2023	561-2707-770	1122
386-7183P1	2041	417-127	1617	421-9683	2016	445-0303-001	1000	522(ZENITH)	2016	551	2016	561-4800-440	1000
386-7183P1A	2041	417-128	2030	421-9840	1617	445-0303-002	1000	522-726	1104	551M	2058	561-4800-442	1000
386-7185P1	1617	417-129	1617	421-9865	1104	447	2009	523-0001-002	1104	555	1723	561-4800-443	1000
386-7188P1	2016	417-132	2023	422-0738	1617	447(ZENITH)	1617	523-0001-003	1104	555-3	2030	561-4800-448	1000
386-7243-P001	2016	417-133	2016	422-0961	2041	447-1	2009	523-0006-002	1122	555D	1723	561-5004-412	1104
386AK	1104	417-134	2009	422-1233	2030	448A662	2030	523-0007-001	1122	556	1728	561-5005-360	1104
386AW	1104	417-135	2009	422-1234	1617	450-1	2009	523-006-002	1122	556D	1728	561-5005-380	1104
386AX	1104	417-137	2030	422-1362	1104	450-2	2016	523-0013-002	1104	559-1	2023	561-5005-390	1104
386AY	1104	417-139A	2041	422-1401	2016	451-3	2023	523-0013-201	1114	560-2	1617	561-5005-400	1104
386BW	1104	417-140	2035	422-1402	2016	454-A2534-1	1104	523-0017-001	1114	561-0884-043	007	561-5005-470	1104
386BY	1104	417-153	2023	422-1404	2030	454-A2534-10	1104	523-0501-002	1102	561-2511-106	1123	561-5005-890	1122
386CW	1104	417-153-13431	2023	422-1407	1617	454A104	2030	521-1000-001	1104	561-2511-120	1123	561-5006-460	1104
386CX	1104	417-154	1617	422-1408	1114	456-2	2009	523-1000-067	1123	561-2511-190	1123	561-5006-470	1104
386CY	1104	417-155	2030	422-1866	1104	460-1	2023	523-1000-295	1123	561-2511-210	1123	561-5008-810	1104
386DW	1104	417-167	2035	422-2158	2030	462-3	2020	523-1000-881	1104	561-2511-240	1123	561-5010-820	1104
386DY	1104	417-168	2023	422-2532	2016	464-1	2023	523-1000-882	1104	561-2511-290	1123	561-5010-840	1104
386FW	1104	417-169	2035	422-2533	1617	464-100-19	1123	523-1000-883	1104	561-2511-400	1123	561-5010-950	1104
386FX	1104	417-171	2009	422-2534	1617	464-103-19	1123	523-1500-067	1123	561-2511-503	1123	561-5010-960	1104
386FY	1104	417-172	1617	422-2540	1104	464-106-19	1123	523-1500-803	1122	561-2511-510	1123	561-5012-180	1104
386K	1104	417-175	2020	429-0092-56	1123	464-110-19	1123	523-1500-881	1104	561-2511-530	1123	561-5012-210	1104
386KX	1104	417-176	2023	429-0093-71	1114	464-111-19	1123	523-1500-883	1122	561-2511-535	1104	561-5012-220	1104
386KY	1104	417-182	2023	429-0910-53	1123	464-113-19	1123	523-2003-001	1123	561-2511-538	1123	561-5015-660	1144
386MW	1104	417-184	2023	429-0910-54	1123	464-119-19	1123	523-2003-150	564	561-2511-540	1123	561-5015-662	1104
386MY	1104	417-185	1617	429-0958-41	1171	464-285-15	1104	523-2003-519	565	561-2511-544	1123	561-5016-920	1104
388A	1101	417-190	2016	429-0958-42	1617	464.062.15	561	523-2503-150	564	561-2511-555	1123	561-5016-930	1104
390-1,,	2023	417-192	1617	429-0958-43	561	465-106-19	1617	523-2503-519	565	561-2511-558	1123	561-5016-940	1104
392-1	2055	417-194	2035	429-0981-12	2016	465-181-19	2016	523-4001-001	1114	561-2511-570	1123	561-5016-950	1104
392-1(SYLVANIA)	2030	417-196	2023	429-0985-12	2016	465-199-19	562	524-457	1123	561-2511-575	1123	561-5016-960	1104
392-2	2055	417-197	1617	429-0986-12	2016	471-010	1104	524WHT	1617	561-2511-580	1122	561-5017-640	1104
394-3127-1	2030	417-200	2023	429-0989-68	1104	471-1(METAL)	2030	525-24	1104	561-2554-560	1122	561-5020-690	1104
394-3127-2	2030	417-201	2023	430	2009	474-004	1104	525-212	1114	561-2554-570	1122	561-5020-700	1104
394-3127-3	2030	417-205	2016	430-31	1104	474-025	1104	525-498	1104	561-2554-571	1122	561-5020-701	1104
394-3135	565	417-211	2035	430-86	1617	474-1	2009	525-877					

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561-5040-010	1104	561-6803-644	2023	573-474A	2016	600X0099-066	1104	610C	1104	642-126	1122	686-0012	2030
561-5040-020	1104	561-6803-646	2009	573-475	2016	600X0100-066	1122	612	1104	642-132	1123	686-0112	2030
561-5040-030	1104	561-6803-702	2023	573-477	1617	600X0101-066	563	612-1	2017	642-174	1617	686-0130	2030
561-5040-040	1104	561-6803-703	2023	573-480	1617	600X0141-000	2016	612-16	2009	642-199	1123	686-0243	2041
561-5040-050	1104	561-6803-711	2016	573-481	1617	600X0143-000	2016	612-16(ZENITH)	2016	642-216	1171	686-143	2041
561-5040-060	1114	561-6803-715	2041	573-491	2016	600X0175-000	2016	612-16A	2016	642-219	1104	686-143A	2041
561-5040-070	1114	561-6803-721	2016	573-494	2016	600X0195-000	2016	612C	1122	642-221	1123	688-1	1067
561-5040-600	1104	561-6803-789	2043	573-495	2016	601	1104	613	2009	642-229	2016	690C092H88	1104
561-5040-821	1144	561-6803-819	2035	573-507	2016	601-1	1617	613(ZENITH)	2016	642-230	2016	690V028H69	2016
561-5040-830	1104	561-6803-858	2016	573-509	2016	601-2	1617	613-72	2016	642-242	1617	690V083H6	2009
561-5040-850	1104	561-6803-903	2009	573-532	2030	601C	1122	614	1104	642-246	1617	690V010H40	2016
561-5047-210	1143	561-6803-904	2009	574	2023	601X0048-066	1114	614(ZENITH)	2016	642-254	2016	690V010M41	2016
561-5150-600	1067	561-6803-905	2023	575-020	1104	601X0049-066	1104	614-1	2030	642-255	564	690V028H28	2016
561-5150-610	1067	561-6803-906	2023	575-042	1104	601X0149-086	1617	614-2	2009	642-260	2016	690V028H48	2016
561-5150-620	1067	561-6804-122	2009	575-048	1104	601X0150-066	1123	614-3	1617	642-268	2016	690V028H69	2016
561-6160-550	1171	561-6804-124	2009	575-050	1104	601X0151-066	1123	614-12	2016	642-269	2016	690V028H89	2016
561-6160-680	1067	561-6804-125	2023	576-0001-002	2023	601X0152-066	1104	614-118	1122	642-270	2016	690V031H33	1104
561-6161-090	1143	561-6804-126	2023	576-0001-004	1617	601X0224-066	1122	614C	1122	642-274	2016	690V034H32	1123
561-6162-247	1114	561-6804-237	2030	576-0001-005	1617	601X0225-066	1122	615-1	2016	642-275	1122	690V034H74	1123
561-6162-248	1067	561-6804-249	2023	576-0001-006	2016	601X0226-0666	563	616	1104	642-279	1123	690V037H91	1123
561-6162-252	1104	561-6804-275	2016	576-0001-008	1617	601X0227-066	1104	616C	1122	642-281	1122	690V037H92	1181
561-6163-025	1104	561-6804-348	2041	576-0001-012	1617	601X0417-086	2023	617-10	1617	642-306	2030	690V038H22	1114
561-6164-003	1104	561-6804-356	2023	576-0001-013	2023	602-56	2023	617-15	1123	642-319	2016	690V039H22	1114
561-6164-025	1104	561-6804-387	2027	576-0001-014	2009	602-60	2023	617-17	1123	642A54076-101	2016	690V039H52	1104
561-6164-275	1104	561-6804-389	2027	576-0002-001	2020	602-61	2016	617-46	1104	644-405E	2009	690V039H54	1191
561-6164-280	1104	561-6804-400	2009	576-0002-003	2041	602-113	2016	617-53	1104	647-1	2055	690V040H63	1123
561-6166-010	1104	561-6804-401	2009	576-0002-006	1617	602X0008-002	2016	617-62	1104	649-1	2055	690V041H08	1104
561-6561-860	1104	561-6804-402	2023	576-0002-008	2023	602X0018-000	1617	617-63	1617	650	1123	690V047H61	1123
561-6800-335	1617	561-6804-403	2023	576-0002-026	2020	602X0018-002	2016	617-64	1617	650-110	1104	690V047H97	1617
561-6800-336	1617	561-6804-424	2009	576-0002-029	2020	602X0019-000	1104	617-65	2016	651	565	690V049H81	2016
561-6800-337	2016	561-6804-905	2043	576-0003-001	2016	603	2009	617-66	1104	651-001C	1123	690V052H50	1123
561-6800-472	2030	561-6804-946	2030	576-0003-002	2016	603-113	2016	617-67	1617	651-022A	1123	690V052H68	1123
561-6800-482	1617	561-6805-247	2035	576-0003-003	2016	603G(25C2603G)	2009	617-68	1617	651-023A	1123	690V053H57	1104
561-6800-484	1617	561-6805-294	2020	576-0003-004	2016	604	1617	617-71	1617	651C0	565	690V059H63	1123
561-6800-495	1617	561-6805-296	2020	576-0003-005	2016	604-113	2016	617-87	1617	651C1	565	690V060H58	2016
561-6800-497	2030	561-6805-320	2030	576-0003-006	2016	604B	1104	617-117	2020	651C2	565	690V060H59	2016
561-6800-541	1617	561-6805-354	2023	576-0003-007	2016	604C	1122	617-156	1123	651C3	565	690V066H48	1123
561-6800-656	2030	561-6805-485	2062	576-0003-011	2009	605	1617	617-161	1617	651C4	565	690V067H09	1123
561-6800-657	2030	561-6805-486	2035	576-0003-017	2023	605-113	2016	617-162	1104	651C5	565	690V068H32	1123
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561-6800-697	2030	561-6901-440	2055	576-0003-019	2023	607-030	1617	618	1104	651C7	565	690V070H47	2016
561-6800-706	2016	561-6936-220	2041	576-0003-020	2016	607-113	1104	618C	1122	651C8	565	690V070H48	2016
561-6800-718	2016	561-6940-347	2030	576-0003-021	2016	608	1104	619	1000	652-003A	1104	690V073H60	1123
561-6800-914	2016	561-6952-923	1617	576-0003-022	2016	608-030	1104	619-2	1000	652-005A	1101	690V075H62	2020
561-6800-916	2016	561-6953/020	1617	576-0003-023	2016	608-2	2030	619-3	1000	652-005B	1103	690V075H68	2016
561-6800-929	1617	561-6953-020	1617	576-0003-026	2016	608-3	2030	619-3(RCA)	1000	652-013A	1173	690V080H36	2016
561-6800-930	1617	561-6953-024	2030	576-0003-027	2016	608-101	1104	620	1104	652-015B	1122	690V080H41	1617
561-6801-420	2030	561-6953-041	2020	576-0003-028	2016	608-113	1104	620-1	2023	652C7	561	690V080H47	1104
561-6801-592	2016	561-6954-099	2016	576-0003-029	2016	609-030	1104	620-2	2023	652C8	561	690V080H52	1104
561-6801-613	2030	561-6955-935	2035	576-0003-12	2009&23	609-112	1617	620C	1122	654-1	2035	690V080H54	1114
561-6801-711	2030	561-6956-515	2009	576-0004-004	2035	609-113	1104	622	1104	654-1(SYLVANIA)	2035	690V080H91	1164
561-6801-990	2030	561-6956-531	2016	576-0004-010	1617	610	1104	622-1	2030	654-202B	561	690V081H07	2016
561-6802-218	1617	561-6956-534	2023	576-0905-004	2030	610-001-103	1104	622-1(RCA)	2030	654-215A	561	690V081H40	1171
561-6802-221	1617	561-6956-555	2023	576-0006-003	2035	610-017-706	1122	622C	1122	654C9	562	690V081H92	564
561-6802-223	1617	561-6956-942	2017	576-0006-011	2016	610-041	2016	623(RCA)	2020	656-141	1104	690V082H40	1104
561-6802-270	2030	562-1	1123	576-002-001	2017	610-041-1	2016	623-1	2017	656-142	1123	690V083H89	1104
561-6802-369	1617	565-072	2009	576-0036-847	1617	610-041-2	2016	624	1104	660-126	1617	690V084H62	1617
561-6802-484	1617	565-074	1617	576-0036-916	1617	610-041-3	2016	624(RCA)	2027	660-127	2016	690V084H94	2016
561-6802-501	1617	565-1	2030	576-0036-917	1617	610-042	2016	624-0009	1104	660-128	2030	690V084H95	2016
561-6802-714	2016	569-0320-831	1740	576-0036-918	2016	610-042-1	2016	624-0010	1104	660-131	1617	690V084H96	2016
561-6802-907	2023	569-0540-355	1723	576-0036-919	2016	610-045	2016	624-0011	1123	660-134	1617	690V086H51	1617
561-6802-908	2023	569-0540-358	038	576-0036-920	1617	610-045-1	2016	624C	1122	660-145	2030	690V086H52	2016
561-6802-923	2016	569-0540-623	1740	576-0036-921	1617	610-045-2	2016	625-1	2009	660-220	1617	690V086H86	2016
561-6802-924	2016	569-0690-500	2401	576-0040-251	2041	610-045-3	1617	625-1(RCA)	2030	660-221	1617	690V086H87	2016
561-6802-925	2016	569-0690-501	2411	576-1	2009	610-045-4	1617	626	1617	660-222	1617	690V086H88	1617
561-6803-011	1617	569-0690-502	2413	577R819H01	2030	610-069	2016	626-1	1617	660-225	1617	690V086H90	2030
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561-6803-053	2030	569-0773-800	1801	588U	2035	610-070-1	1617	630-002	1123	662N007B	2009	690V086H94	2016
561-6803-055	2041	569-0882-600	1801	595-1	1617	610-070-2	1617	630-052	1104	664-015B	2020	690V086H95	2016
561-6803-115	1617	569-0882-601	1801	595-1(SYLVANIA)	1617	610-070-3	1617	630-076	1617	664-016B	2009	690V086H96	2016
561-6803-135	2023	569-0882-604	1802	595-2	1617	610-072	2016	630-079	1123	664-409B	2016	690V088H20	1127
561-6803-250	2023	569-0882-608	1822	595-2(SYLVANIA)	1617	610-072-1	2016	632-3	2020	664-410C	201		

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690V092H84	1617	700-154	2009	753-4000-101	1617	800-002-00	1123	800-546-00	2020	880-250108	2016	903-73	1104
690V092H85	1123	700-155	2016	753-4000-537	1617	800-003-00	1123	800-547-00	2023	881-250-102	1617	903-79B	1104
690V092H96	1617	700-156	2009	753-4000-668	2016	800-004-00	563	800-548-00	1617	881-250-108	1617	903-82	1122
690V092H97	1617	700-159	562	753-4000-929	2016	800-005-00	1123	800-557-00	2016	881-250-109	1617	903-82B	1122
690V094H17	2041	700-325	2009	753-4001-932	2020	800-006-00	1104	800-672	2009&23	881-250108	2016	903-83B	1123
690V094H21	1617	700A858-285	1104	753-4004-248	2023	800-008-00	1101	800-764	2055	895	2009	903-84B	1122
690V094H35	1104	700A858-286	1104	753-5751-359	2009	800-010-00	1114	800-771	2027	901F	2009	903-91	1104
690V097H62	1617	700A858-318	2009	753-5851-359	2009	800-013-00	1104	800-50100	1617	902-000-2-04	2016	903-92B	1123
690V098H48	1617	700A858-319	2009	753-6000-002	2009	800-014-00	1104	800-51500	1617	902-000-8-04	2009	903-95B	1122
690V098H49	1617	700A858-322	1122	753-6000-019	2035	800-014-01	1104	800-52102	1617	902-001-7-18	2058	903-97B	563
690V098H50	1617	700A858-328	2016	753-8400-230	2016	800-016-00	1122	800-52202	1617	902-002-3-06	2009	903-100B	1122
690V098H52	1123	703-056-(4)	2009	753-8500-380	2009	800-017-00	1104	800-52302	1617	902-003-0-012	2009	903-102	1104
690V098H53	1104	703-1	2030	753-8510-470	2030	800-018-00	1114	800-52402	2041	902-003-0-12	2009	903-103B	1123
690V099H79	1617	703-2	2030	753-9000-019	2035	800-018-02	1114	800-52600	1617	902-003-3-17	2009	903-104B	1104
690V103H27	1617	703B	2030	753-9000-839	2009	800-020-00	1123	800-53001	1617	902-003-6-006	2016	903-105B	1104
690V68H32	1123	705-600007	1000	753-9000-922	2009	800-021-00	1122	800-53300	2030	902-003-6-06	2016	903-108	1123
690V73H60	1123	707	2020	753-9001-674	2016	800-022-00	1123	800-53400	1617	903	2016	903-108B	1123
690V102H40	1122	710	1104	753-9001-675	2009	800-023-00	563	800-53600	2016	903-00390	1123	903-109	1104
690V102H71	1617	715EN	1617	753-9010-235	2020	800-024-00	1104	801B	1617	903-00393	1122	903-112B	1122
690V103H23	2016	715FB	2016	753-9020-784	2058	800-032-00	1104	803-18250	1617	903-00394	1104	903-113B	1123
690V103H24	2016	723	1740	753-9050-785	2058	800-035-00	563	803-37390	1617	903-3	1617	903-114B	1123
690V103H25	2016	723C	1740	754-1003-030	1123	800-036-00	1123	803-38030	2016	903-3G	1617	903-116B	1122
690V103H26	2016	723CJ	1740	754-2000-001	1122	800-037-00	1114	803-38040	2016	903-8B	1123	903-117	1104
690V103H27	2016	729-3	2030	754-2000-002	1104	800-038-00	1104	803-39430	2016	903-9B	1123	903-117B	1104
690V103H28	2016	733W00039	1808	754-2000-005	1104	800-039-00	1123	803-39440	2016	903-10B	1123	903-118	1122
690V103H29	2009	733W00042	1801	754-2000-009	1123	800-040-00	1122	803-83840	2016	903-12B	1123	903-118B	1122
690V103H30	2030	733W00064	1802	754-2000-011	1122	800-041-00	1104	803-83930	2016	903-14B	1104	903-119	562
690V103H31	1617	733W00211	2411	754-2009-150	1122	800-042-00	1122	803-83940	1617	903-15B	1104	903-119B	562
690V103H32	2009	734EU	2035	754-2509-150	1122	800-043-00	1114	803-89910	1617	903-16B	1123	903-121	1122
690V103H33	1617	737	2009	754-2720-021	1122	800-045-00	1067	803-89930	1617	903-17	1114	903-121B	1122
690V103H53	563	737(ZENITH)	1617	754-4000-088	1123	800-046-00	1104	804	1617	903-17A	1114	903-125	1104
690V103H54	1123	739H01	1617	754-4000-188	1123	800-050-00	1114	804-14120	2041	903-17B	1114	903-129	1104
690V105H19	2009	740-9007-205	705	754-4000-410	1123	800-051-00	1114	804-14130	2041	903-17C	1114	903-133	1122
690V105H-22	2009	740-9607-205	705	754-5000-021	1104	800-01300-504	1104	804-21980	1617	903-18	1123	903-136B	1122
690V105H-25	2009	741	007	754-5750-283	1122	800-01400	1104	805-1060	1123	903-18B	1123	903-146	1104
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690V105H27	2009	742	1123	754-5900-090	1123	800-362	2020&27	807-1	2030	903-23	1123	903-154	1104
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690V109H44	1104	750A858-285	1104	756	1104	800-501-03	1617	822-1	1104	903-23E	1123	903-164B	1104
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690V110H32	2016	750C838-123	1617	770-045	2020	800-508-00	1617	822-4	1104	903-28B	1104	903-177B	1122
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690V110H88	1123	750D858-212	1617	772BJ	2016	800-512-00	2030	822B	1617	903-34	1123	903-198	1104
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690V114H29	2016	750M63-119	1617	772BM	2016	800-514-00	1617	823WHT	1617	903-34B	1123	903-208	1173
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690V116H23	2023	753-1303-801	2009	772E	2016	800-522-04	1617	829A	2023	903-36D	1114	903-341	1123
690V116H24	2030	753-1372-100	2009	772EH	2016	800-523-01	2023	829B	2023	903-36F	1114	903-347	1101
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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2076	1122	2093A41-125	564	2137-301-7208	2009	2169-101-0602		2263	1617	2475	2016	2855-1	2017
2077-07	1123	2093A41-126	1104 N1	2137-401-5304	2023	(,1N60PM-1)	1123	2269	2023	2475(RCA)	1617	2855-2	2017
2079-93	562	2093A41-129	1122	2138-17	2016	2169-101-1306	1123	2270	1617	2476	2009	2855-3	2017
2081-6	2027	2093A41-131	1104	2139-101-4005	2023	2169-102-2605	1122	2271	2016	2476(RCA)	2016	2856-1	2017
2082-6	2020	2093A41-139	1104	2139-101-4102	2023	2169-103-0608	1122	2272	2023	2477	2009	2856-2	2017
2084-17	1104	2093A41-141	1123	2139-101-4209	2023	2169-103-1807	1122	2275-17	1617	2477(RCA)	2016	2856-3	2017
2087-46	562	2093A41-155	1122	2139-101-5301	2023	2169-201-0708	1102	2280-13	1123	2484	1617	2900-007	2016
2090A53-2	1101	2093A41-156	1122	2139-103-2807	2023	2169-201-0805	1103	2281-13	1123	2495	2030	2904-003	2009
2091-51	2009	2093A41-159	562	2139-103-3307	2023	2169-201-0902	1104	2282-13	1123	2495(RCA)	1617	2904-032	2030
2093A2-289	2016	2093A41-163	562	2139-103-3802	2023	2169-202-1900	1123	2282-17(RAT.DET)	1123	2495-166-1	2016	2904-033	2009
2093A5-2	1161	2093A41-164	1122	2139-103-3802	1122	2169-202-2002	1122	2283-13	1123	2495-166-2	1617	2904-034	1617
2093A8-1	1123	2093A41-165	1122	(,KSA733-O)	2023	2169-202-2109	1122	2284-13	1123	2495-166-4	2016	2904-035	1617
2093A12-1	1104	2093A41-167	1122	2139-103-3802		2169-202-2206	1103	2284-17	2016	2495-166-8	2016	2904-038	2023
2093A25-3	1123	2093A41-169	1122	(,KSA733-Y)	2023	2169-202-2400	1104	2289-13	1122	2495-166-9	2016	2904-045	2009
2093A33-1	1123	2093A41-171	1122	2139-103-4801	2023	2169-205-0700	1122	2290-13	1123	2495-489	1114	2904-053	2009
2093A38-1	1123	2093A41-172	1122	2139-103-4001		2169-205-0807	1122	2290-17	1617	2495-520	2016	2904-054	2009
2093A38-4	1104	2093A41-173	1104	(,KSA733-O)	2023	2169-205-1006	562	2291-17	2016	2495-521	2016	2907	2023
2093A38-5	1123	2093A41-180	1104	2139-103-4001		2169-205-1103	563	2302	1104	2495-522-1	2016	2925(E.F.-JOHNSON)	1617
2093A38-10	1123	2093A41-181	1122	(,KSA733-Y)	2023	2169-206-1106	1104	2302-17	2009	2495-522-4	1617		
2093A38-11	1122	2093A41-182	1104	2139-103-4302	2023	2169-206-1106(JU-1)		2304	1122	2495-523-1	2016		2009
2093A38-13	1104	2093A41-185	1104	2139-103-7006	2023		1104	2309	562	2495-529	1617	3001	2016
2093A38-14	1123	2093A41-186	562	2139-103-7006		2169-206-1106		2315-046	1104	2498-163	2030	3001A	1104
2093A38-15	1123	2093A41-187	1122	(,KSA708-O)	2023	(,S5293G)	1104	2320-17	2009	2498-507-2	2016	3002	2016
2093A38-16	562	2093A41-189	1104	2139-103-8807	2009	2169-206-1203	1104	2321-17	2009	2498-507-3	2016	3003	2016
2093A38-21	1123	2093A41-194	563	2139-103-9006	2009	2169-207-1109	1114	2322	20				

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
3018(E.F.-JOHNSON)	2016	3520(WARDS)	563	3571	2030	3688	1067	4080	2035	4686-143-3	1617	4822-130-40182	1122
3018(E.F. JOHNSON)	2016	3521	2030	3571(RCA)	2009	3688-1	1067	4080-187-0507	2030	4686-144-3	1617	4822-130-40184	1617
	2016	3521(SEARS)	2009	3571-1	2016	3693(ARVINE)	2016	4080-866-0006	2020	4686-149-3	1104	4822-130-40214	2016
	2016	3521-1	2016	3571R	2009	3697-1	2023	4080-879-0001	2020	4686-169-3	2016	4822-130-40215	2016
3019	2023	3522(SEARS)	2023	3572	2016	3700-153	1104	4085	1617	4686-171-3	2016	4822-130-40216	2016
3020	2016	3523(SEARS)	2009	3572(RCA)	1617	3703	561	4086	2023	4686-172-3	2016	4822-130-40229	1123
3021	2016	3524(RCA)	2016	3572-3	2016	3714H1	2041	4087	2023	4686-173-3	1617	4822-130-40304	2016
3022	2030	3524(SEARS)	2023	3574	2023	3714H1A	2041	4101-685	1104	4686-179-3	1114	4822-130-40311	2016
3023	2016	3524-1	2016	3574(RCA)	2023	3819	2035	4148(DIO)	1122	4686-182-3	2030	4822-130-40312	2016
3026	2009	3524-2	2016	3574-1(RCA)	2023	3819(RCA)	2035	4167	2009	4686-183-3	1617	4822-130-40313	2016
3027	2016	3525(RCA)	1617	3576	2009	3867	1617	4167(AIRLINE)	2016	4686-184-3	1114	4822-130-40315	2023
3028	2016	3526	2017	3576(RCA)	2016	3881	2016	4167(PENNCREST)	2016	4686-186-3	1114	4822-130-40317	2016
3029	2016	3526(RCA)	1617	3577	2009	3909	1705	4167(SEARS)	2016	4686-189-3	1114	4822-130-40318	2016
3034	2030	3527	2009	3577(RCA)	2009	3999	1617	4168	2009	4686-199-3	1114	4822-130-40333	2009
3034(RCA)	2030	3527(RCA)	2016	3577-1	2009	4001(IC)	2401	4168(PENNCREST)	2016	4686-201-3	1114	4822-130-40354	1617
3068	2009	3527-1	2016	3579	2016	4001-151	1114	4168(SEARS)	2016	4686-207-3	2016	4822-130-40356	2030
3069	1104	3529	1104	3579(RCA)	2016	4001-230	1123	4168(WARDS)	2016	4686-208-3	2016	4822-130-40361	1617
3069(ARVIN)	1104	3529A	1114	3581(RCA)	2023	4001BDC	2401	4169	2009	4686-209-3	2016	4822-130-40454	1617
3074A21	1104	3529B	1114	3583	1144	4001BDM	2401	4169(PENNCREST)	2016	4686-212-3	1114	4822-130-50221	1104
3107-204-9000	1617	3529C	1114	3586(RCA)	1617	4001BFC	2401	4169(SEARS)	2016	4686-224-3	2016	4822-130-50228	1173
3107-204-90010	1617	3530	2016	3586-2	2016	4001BFM	2401	4169(WARDS)	2016	4686-228-3	2016	4825	2058
3107-204-90020	1617	3530(RCA)	2016	3588	1617	4001BPC	2401	4309(AIRLINE)	1617	4686-231-3	1617	4826	2016
3107-204-90080	2016	3530-1	2016	3589	1617	4003(SEARS)	1123	4310(AIRLINE)	2023	4686-234-3	2020	4828-4	1123
3107-204-90100	2016	3530-2	2016	3591	2030	4003E	2009	4310(AIRLINE)	2023	4686-244-3	2016	4837	2016
3107-204-90150	2016	3532(RCA)	2009	3597	2023	4004(SEARS)	1123	4351.0012	1123	4686-251-3	2016	4839	1617
3111	1617	3532-1	2030	3597-1	2023	4005(SEARS)	1123	4351.0013	1123	4686-257-3	1617	4840	1617
3113	1617	3535	2009	3597-2	2023	4006(E.F. JOHNSON)	1123	4351.0031	1123	4689	2030	4841	1617
3137-103-4308	2023	3535(RCA)	2016	3598(RCA)	2016		2030	4354	1123	4701	2041	4842	1617
3146-977	2041	3536	2009	3601	2030	4006(SEARS)	1123	4354.0012	1104	4705	1617	4844	2023
3152-170	2041	3536-1	2009	3601(RCA)	2009	4007(SEARS)	1123	4360D	2020	4706	2016	4845	2016
3202-5H01	2030	3536-2	2009	3601-1	2009	4008(SEARS)	1123	4403	1104	4709	2016	4851	2016
3202-51-01	2030	3537	2009	3603-1	2009	4009(SEARS)	1123	4442	2023	4714	1617	4852	1617
3227-E	2016	3537(RCA)	2016	3604(RCA)	2016	4010	1617	4442-366	2020	4715	2041	4854	1617
3301(SEARS)	2016	3538	2009	3604-3	2009	4010(PENNCREST)	1123	4464	1617	4715A	2041	4855	2016
3302	2023	3538(RCA)	1617	3608(RCA)	2030	4010(SEARS)	1123	4465	1617	4732	1617	4857	2058
3322-6	1123	3539	2030	3608-1	2030	4011	2023	4470	1617	4733	1617	4882	2041
3370	2016	3539(RCA)	2016	3608-2	2030	4011(IC)	2411	4470-31	1617	4734	1617	4904	2016
3377	1104	3539-307-001	2016	3608-2(J.C.-PENNEY)		4011(SEARS)	1123	4470-32	1617	4737	1617	4927	2009
3391	2016	3539-307-002	2016	3608-2(J.C.-PENNEY)	2030	4011-PC	2411	4470-33	1617	4745	2020	4937	2016
3391(SEARS)	2016	3540(RCA)	2023	3608-2(J.C.-PENNEY)		4011A	2411	4470M-32	1617	4746	2016	4943	2023
3391A	2016	3540-1	2023		2030	4011BDC	2411	4473-1	2016	4756	2016	4989	2023
3391A(SEARS)	2016	3541	2030	3608-2(RCA)	2030	4011BDM	2411	4473-2	2016	4765	1617	5001-002	2009
3403(RCA)	2009	3541(RCA)	1617	3610	2016	4011BFC	2411	4473-3	2016	4768	1617	5001-014	2009
3461	2009	3543	2009	3610(RCA)	2016	4011BFM	2411	4473-4	1617	4778-8(RCA)	1114	5001-020	2009
3476(RCA)	2016	3543(RCA)	1617	3611	2017	4011BPC	2411	4473-5	1617	4789	2016	5001-021	2009
3492	2009	3544(RCA)	2030	3612	2017	4011PC	2411	4473-5X	1617	4800-224	1101	5001-032	2009
3501	2030	3544-1	2009	3612(RCA)	2020	4012	2030	4473-6	2016	4801-0000-001	2023	5001-037	2009
3505	1123	3546	2009	3614-1	2009	4013(IC)	2413	4473-7	2016	4801-0000-003	2016	5001-038	2009
3505(AIRLINE)	1122	3546(RCA)	1617	3614-3	2009	4013(RECTIFIER)	1104	4473-8	2016	4801-0000-010	2009	5001-043	2009
3505(RCA)	1617	3546-1(RCA)	1617	3615	2030	4013BDC	2413	4473-9	1617	4801-0000-016	2009	5001-070	2009
3506(RCA)	1617	3546-2(RCA)	1617	3615(RCA)	2030	4013BDM	2413	4473-11	2016	4801-0000-035	2016	5001-074	2009
3507	2030	3548	2009	3615-1	2030	4013BFC	2413	4473-12	1617	4801-0000-060	2023	5001-080	1122
3507(SEARS)	2016	3548(RCA)	1617	3616-1	2023	4013BFM	2413	4473-M-3	2009	4801-00154	1122	5001-083	1123
3507(WARDS)	2009	3549(RCA)	2023	3618(RCA)	2016	4013BPC	2413	4473-M3	2030	4801-00628	1123	5001-089	1102
3508	2030	3549-1(RCA)	2023	3619-1	1090	4014	1104	4473-M-12	2030	4801-00629	1123	5001-107	1122
3508(RCA)	2009	3551(RCA)	1617	3619-2	1000	4014-200-30110	1122	4473-N	2030	4801-00801	562	5001-117	1104
3508(SEARS)	2016	3554	2030	3619-3	1000	4017	2417	4483	2030	4801-1100-0011	2009	5001-125	562
3508(WARDS)	2016	3554(RCA)	1617	3620(RCA)	2023	4017(IC)	2417	4558C	038	4802-00002	2016	5001-128	1122
3509	2016	3555	2030	3620-1	2023	4017BDC	2417	4558D	038	4802-00003	1617	5001-135	1104
3509(SEARS)	2009	3555-3	2030	3621(RCA)	2020	4017BDM	2417	4558DD	038	4802-00004	2023	5001-141	1123
3509(WARDS)	2009	3556	2030	3622-1	2030	4017BFC	2417	4558DV	038	4802-00005	2041	5001-144	1122
3510	2009	3558	2009	3622-2	2030	4017BFM	2417	4587	2016	4802-00005A	2041	5001-152	562
3510(RCA)	2009	3558(RCA)	1617	3625	2009	4017BPC	2417	4594	1617	4802-00006	1617	5001-156	1122
3510(SEARS)	2016	3559(RCA)	2023	3625(RCA)	1617	4021	1617	4624	1617	4802-00009	1617	5001-161	1123
3510(WARDS)	2016	3559-1	2023	3626	1617	4022	2009	4630	1617	4802-00010	2035	5001-162	1122
3511	2016	3560	2009	3627	2023	4034L	2017	4653	562	4802-00012	1617	5001-163	1104
3511(SEARS)	2035	3560-1	2030	3627(RCA)	2023	4034S	2017	4684-120-3	2016	4802-00014	2009	5001-164	1122
3511(WARDS)	2035	3560-1(RCA)	2016	3631	2023	4041-000-1018	1123	4685-285-3	2016	4802-00015	1617	5001-197	565
3512(RCA)	2035	3560-2	2030	3631-1	1617	4041-000-10150	1104	4686-82-3	1617	4805-1241-200	1122	5001-508	2041
3512(SEARS)	2035	3561	2009	3631-1(RCA)	2020	4041-000-40270	2016	4686-89-3	1114	4806-0000-004	1104	5001-509	2023
3512(WARDS)	2035	3561-1	2030	3632-1	2020	4041-000-40300	2016	4686-95-3	2016	4806-0000-005	1114	5001-510	2016
3513	2023	3562(RCA)	2023	3632-2(RCA)	2017	4041-000-60170	2016	4686-97-3	1114	4811-0000-025	2035	5001-511	2016
3513(RCA)	2009	3563(RCA)	2023	3637-1	2041	4041-000-60200	2016	4686-105-3	1114	4815	2023	5001-539	2009
3513(SEARS)													

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
5120A92	1123	5613-1327T	2016	6872	038	7376-4	2009	7623	2023	8000-00006-003	2009	8000-00013-029	2009
5123	563	5613-1335	2009	6873	1114	7377-1	2009	7627	1817	8000-00006-004	2023	8000-00028-237	2009
5124	564	5613-1335(T)	2016	6874	1114	7378-1	2013	7641	1817	8000-00006-005	2016	8000-00028-033	2009
5200MT	1122	5613-1335C	2009	6875	4851	7379-3	2030	7642	2016	8000-00006-006	2016	8000-00028-039	2023
5203RNI	1101	5613-1342	2050	6876	2053	7384-2	2001	7678	1837	8000-00006-007	1123	8000-00028-040	2027
5203RNL	1101	5613-1342C	2016	7001	2009	7349-5	2009	7701	1114	8000-00006-008	1122	8000-00028-041	2020
5205NI	1104	5613-1359(B)	2009	7001(E.F.-JOHNSON)	2009	7363-1	2023	7702-1A	1114	8000-00006-009	561	8000-00028-042	1802
5205NL	1104	5613-1359(C)	2009	7001	2009	7364-1	2020	7704-1	1114	8000-00006-146	561	8000-00028-048	1123
5210DC-1	1143	5613-1359B	2009	7002	2009	7366-1	2055	7706-1	1114	8000-00006-147	1104	8000-00028-048	1102
5217	1122	5613-1684(Q)	2009	7005G(Lowrey)	1617	7398-6117P1	1617	7708-1	1114	8000-00006-201	1102	8000-00028-206	2009
5222	283	5613-1684(R)	2009	7006	2009	7399-6118P1	1617	7716-1	1114	8000-00006-291	1104	8000-00028-204	2009
5224	564	5613-1684(T)	2009	7014	2009	7399-6119P1	2017	7717-1	1114	8000-00006-333	562	8000-00028-200	2004
5225-1	2023	5613-1684M(R)	2009	7011	2009	7400	2009	7718-1	1114	8000-00006-380	2009	8000-00028-202	2009
5225-2	1617	5613-1684T	2009	7108	1617	7400/9160	1801	7719-1	1114	8000-00006-381	1123	8000-00028-210	1104
5300-42-3	1134	5613-1780(R)	2009	7109	2058	7400-4A	1801	7720DMP	2041	8000-00009-089	2009	8000-00028-212	2009
5300-42-4	1114	5613-1780R	2009	7112	1122	7400-9A	1801	7805	1770	8000-00009-174	2009	8000-00028-016	2016
5300-86-1	1104	5613-1815(GR)	2009	7113	2009	7400A	1801	7805A	1770	8000-00009-177	2016	8000-00028-010	1124
5300-88-1	1104	5613-1923(Y)	2058	7115	2016	7400DC	1801	7805C	1770	8000-00009-178	2016	8000-00028-001	1123
5300-88-3	1114	5613-4581	2016	7116	2058	7400PC	1801	7810	2016	8000-00009-280	2016	8000-00028-002	1104
5300-88-1002	1114	5613-4581C	2009	7117	2009	7401-6A	1801	7811	2016	8000-00004-094	2016	8000-00028-003	2016
5300-88-1003	1114	5613-4581E	2020	7118	2016	7401-9A	1801	7812	2016	8000-00004-098	1123	8000-00028-004	1801
5300-88-1004	1114	5613-4581F	2020	7122	2016	7401DC	1801	7812(C)	1771	8000-00004-091	1104	8000-00028-008	1123
5300-94-1	1104	5613-4600	2020	7122-5	2009	7401PC	1801	7812A	1771	8000-00004-092	1123	8000-00028-009	1123
5300-96-1	1104	5613-4690	1122	7123	2016	7402	1802	7812CT	1771	8000-00004-093	1123	8000-00028-010	1123
5300-98-1	1104	5613-4690A	1123	7124	2016	7402-6A	1802	7812CU	1771	8000-00004-094	1123	8000-00028-011	1123
5300-99-1	1104	5631-1N34A	1123	7125	2016	7404-9A	1802	7812P	1771	8000-00004-P064	1123	8000-00028-018	562
5300-99-3	1104	5631-1N60	1123	7126	2016	7404A	1802	7813	2016	8000-00004-P065	562	8000-00028-019	1122
5300-99-4	1104	5631-1N60P	1123	7127	2016	7404DC	1802	7814	2016	8000-00004-P066	1123	8000-00028-020	2016
5301-06-1	1104	5631-1S2076	1122	7128	2016	7404N	1802	7815	1772	8000-00004-P067	1104	8000-00028-021	2009
5301-06-1001	1114	5631-1S2473	1122	7129	2009	7404PC	1802	7815(C)	1772	8000-00004-P068	1104	8000-00028-022	2009
5301-06-1	1104	5631-20A9E	1123	7131	2016	7405	1802	7815CU	1772	8000-00004-P069	2009	8000-00028-024	2009
5301-11-1801	1114	5631-20A9H	1123	7132	2016	7405-4A	1822	7816	1617	8000-00004-P070	2016	8000-00028-027	1123
5301-15-1	1104	5631-20A9M(H)	1123	7133	2016	7405-9A	1822	7817	1617	8000-00004-P071	2016	8000-00028-028	1801
5301-25-1	1104	5631-MA115	1123	7134	2016	7406A	1822	7818	1617	8000-00004-P072	2009	8000-00028-030	1801
5301-36-1	1114	5631-1S2226	1104	7137	2009	7406DC	1822	7921	1104	8000-00004-P075	2009	8000-00028-038	2016
5303-1	1000	5632-1S2227	1104	7172	2009	7408N	1822	7962	1104	8000-00004-P086	2009	8000-00028-021	342
5303-2	1000	5632-DFA1A4	1104	7173	2016	7408PC	1822	7991	2016	8000-00004-P089	2023	8000-00028-027	563
5361-1N60P	1123	5632-ERB24-04	1104	7174	2016	7414	2020	7992	2009	8000-00004-P090	1123	8000-00028-048	342
5380-21	1104	5632-ERB24-06	1104	7175	2016	7420	2020	8000-00003-004	2023	8000-00004-P061	1122	8000-00028-010	1104
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5380-72	1617	5632-S1801-02	1104	7177	2016	7425	2016	8000-00003-034	2009	8000-00004-P063	1123	8000-00028-030	2009
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40485	1000	42942	2020	51441-03	1617	59844-3	1104	68645-03	1104	72128A	1123	87756	1122
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40501	2030	43021-198	2030	51442-01	1617	59991-1	563	69213-78	1104	72129A	1123	87758	2023
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40518	1617	43055	2016	51547	1617	60133	2020	70023-1-00	1617	72146	1122	88060-55	1122
40519	1617	43060	2041	53004-1716	1122	60182	1000	70064-7	1104	72147	1122	88060-141	2035
40525	1000	43062	1122	53007-2	1114	60215-1	1123	70066-3	1104	72151	1617	88060-142	2058
40526	1000	43095	2041	53016	1122	60259	1000	70066-4	1104	72151 (RECTIFIER)	1114	88060-143	2009
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40531	1000	43959	1123	53099-3	1104	60327	2009	70260-12	2016	72168-3	561	88510-53	1123
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40533	1000	44002	1122	53200-23	1617	60407	2017	70260-14	1617	72172-1	1114	88510-171	2035
40534	1000	44003	1114	53200-51	1617	60408	2020	70260-15	1617	72174-1	1171	88510-172	2016
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40627	2020	45810-166	2009	55810-163	2016	61009-6-1	2016	71226-6	2009	75700-04	1617	93022	1104
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9404	1617	100520	1104	115599	1104	121655	1617	125856	1104	129029(DIO)	1104	131543	2016
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94065	2041	100844	1123	115910	2016	121661(RCA)	1617	125993	1104	129051	2030	131648	2016
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95015(EICO)	1122	105517	1123	116080	2016	122788	1104	126331	2009	129394	2016	132499	2020
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95133	2062	110697	1617	116273	1123	123703	2030	126701	1617	129571	2016	132915	1123
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95225	1617	112329(AMPHENOL)		118873	1104	124623	2016	126719	2023	130013PK8TRANSISTOR)		133690	2009
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95233	2030	112361	2030	119596	1122	125105	1104	127102	1104	130328	563	134263	2016
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99201-211	561	112530	562	119728	2030	125263	2016	127474	1122	130536	2023	135286	2023
99201-212	561	112531	1104	119730	2023	125264	2016	127529	2009	130537	1617	135297	2016
99201-219	563	112826	1104	119822	2030	125329	2016	127693	2016	130607	1104	135362	2023
99201-221	564	113039	1104	119823	2016	125389	2016	127695	1104	130762	564	135571	1122
99202-22	564	113182	2023	119824	2016	125389-14	1617	127784	1123	130793	2016	135735	2020
99203-005	1104	113321	1104	119825	2016	125390	2016	127792	2016	131050	1104	135739	2020
99203-006	1104	113348	1617	119919	1123	125392	2016	127793	2016	131075	2020	135872	1123
99203-4	1104	113392	1114	119956	1122	125394	2016	127794	2016	131140	2009	136162	1122
99203-5	1104	113398	1617	119982	1617	125397	1122	127798	2020	131161	2020	136163	1122
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99207-2	1617	115524	1114	120617									

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137647	565	143802	2023	146570(,25D639R)	2030	148733	2449	153325	2023	160696	2009	168660	2030
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139706(,F046)	1122	144072-2	1771	147213	1122	148997	2009	154782	1770	163434	1711	170370	1123
140290	2023	144076	2027	147214	1123	148999	2020	154807	2009	163807	565	17038E	2016
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140971	1104	144581(,1N4148)	1122	147234	2411	149018	1711	154988	2023	164594	565	170750	1104
140972	1104	144581(,MA165)	1122	147242	2016	149038	1772	154988(,25B642Q)	2023	164602	1778	170753-1	2016
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140976	2055	144585	1123	147243	2023	149041	2023	155565	565	164874	1122	170794	2016
140977	2055	144691	1122	147245	2009	149042	562	155568	2016	164984	2411	170856	1104
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141344	2023	145173	2009	147389	2023	150322	2009	156584	2009	165827	1617	170970-1	1104
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141367	2055	145398	2009	147477-8-2	1114	150363	563	156736	2016	165932	2016	171009	2016
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141421	2023	145513	1067	147477-8-7	1114	150418	1712	156897	2023	166040	1104	171009(TOSHIBA)	2009
141429	563	145586	2413	147477-8-8	1114	150513	2009	156910	1102	166272	2016	171019	1104
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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171044	2009	171555	2023	183018	2016	198063-1	2027	216014	1104	233597	1104	256319	2023
171044(SEARS)	2030	171557	2009	183019	2016	198067-1	1617	216020	1104	233735	2030	256417	2009
171044(TOSHIBA)	2009	171558	2009	183030	2009	198072-1	2030	216445-2	1617	233944	2030	256517	2058
171045	2009	171559	2009	183031	2009	198077-1	2030	216449	1104	234024	2030	256617	2016
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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984687	1617	992171	1102	1444875-1	563	1473543-1	2016	1473631-1	2009	1815036	2016	2003073-9	1617
984699	1171	994634	2016	1444778-9	1161	1473544-1	2016	1473632-1	2016	1815037	2016	2003073-10	1617
984713	1104	995018	1617	1473545-1	1122	1473545-1	2030	1473632-2	2020	1815039	2016	2003073-11	1194
984743	2016	995019	1617	1473546-1	1101	1473546-1	1617	1473634-1	2055	1815041	1617	2003073-44	1104
984744	2016	995020	1104	1473546-2	1101	1473546-2	1617	1473634-2	2020	1815042	1617	2003073-91	2023
984745	1617	1043176-1	1104	1473547-1	1122	1473547-1	2030	1473642-1	2055	1815043	1617	2003073-31A	2041
984795	1114	1043176-2	1104	1471112-7	2023	1473549-1	2023	1473644-1	2055	1815045	2016	2003161-13	1617
984796	1114	1043176-3	1104	1471112-8	2023	1473549-2	2023	1473645-1	2016	1815047	2016	2003161-13A	1617
984851	2016	1043176-5	1104	1471112-10	2023	1473551-1	2017	1473657-1	2058	1815054	1617	2003215-25	1617
984852	2016	1045013	1104	1471113-2	1617	1473553-1	1630	1473657-2	2058	1815067	2016	2003233-65	1617
984853	2016	1045154-1	1104	1471114-1	2023	1473554-1	1617	1473665-2	2041	1815068	2016	2003242-109	2016
984854	1617	1045154-2	1104	1471115-1	2009	1473555-1	1617	1473669-1	2058	1815159	2030	2003243-244	2016
984873	2016	1045154-3	1104	1471115-2	2016	1473555-2	1617	1473669-2	2058	1815159	1617	2003243-244	2016
984874	2016	1045154-4	1114	1471120-1	2009	1473556-1	2030	1473674-1	2009	1815159	2030	2003243-244	2016
984877	2016	1045154-5	1114	1471120-2	2009	1473556-2	2030	1473674-2	2009	1815159	2030	2003243-244	2016
984878	2016	1045154-6	1114	1471120-3	2009	1473556-3	2030	1473674-3	2009	1815159	2030	2003243-244	2016
984879	1617	1045494-1	1101	1471120-14	2030	1473557-1	1617	1473680-1	2016	1815157-9	2030	2003243-244	562
984880	1122	1107832-6	1101	1471120-15	2009	1473558-1	2016	1473681-1	2020	1815159	2030	2004367-106	1123
984881	1123	1142415-2	1123	1471122-6	2016	1473559-1	2023	1473681-1	2020	1817004	2016	2004368-142	1104
984882	1104	1195397	1122	1471122-7	2016	1473559-2	2023	1473683-1	2041	1817005	1617	2004368-142	1104
985087	2009	1221962	1617	1471123-3	2030	1473560	2030	1473688-1	1067	1817005-3	2016	2004746-114	2016
985096	2016	1222123	1617	1471123-4	2030	1473560-002	2009	1473777-2	164	1817006	2030	2004746-115	2016
985097	2016	1222133	1617	1471123-002	2030	1473560-1	2030	1473778-10	1104	1817006-3	2016	2004746-115	2016
985098	1617	1222124	1617	1471123-3	2030	1473560-2	2030	1474777-2	164	1817007	1617	2004746-115	2016
985099	1617	1222125	2016	1471123-4	2030	1473560-3	2009	1474777-001	164	1817008	2016	2004746-115	2016
985100	2009	1223770	1123	1471123-5	2030	1473561-1	2030	1474777-1	164	1817009	2016	2004746-115	1104
985101	2009	1223771	1122	1471123-001	2041	1473561-Y	2009	1474777-2	164	1817108	1617	2006431-44	2016
985102	1617	1223772	1104	1471135-1	2041	1473562-1	2023	1474777-8	1104	1819045	2016	2006431-45	1617
985104	1104	1223781	2016	1471405-1	1114	1473563-1	2023	1474778	1104	1846282-1	1617	2006431-46	1617
985105	1104	1223782	2009	1471822-11	1123	1473565-001	2030	1474778-013	1114	1887048	1101	2006431-49	1617
985106	1122	1223783	2020	1471858	1104	1473565-1	2030	1474778-2	1104	1956486	1104	2006431-50	1123
985175	2035	1223911	2009	1471858-1	1104	1473566-1	2030	1474778-2	1104	1961842	1104	2006431-51	2017
985215	2016	1223912	2009	1471858-2	1104	1473566-2	2030	1474778-4	1104	1961842	1104	2006431-52	2017
985218	1104	1223913	2009	1471858-001	1104	1473566-3	2016	1474778-7	1104	1961842	1104	2006431-53	1104
985442	2016	1223914	2023	1471858-008	1104	1473566-4	1617	1474778-6	1104	1961842	1104	2006431-54	2030
985442A	2016	1223915	2009	1471858-008	1104	1473567-1	2023	1474778-9	1104	1961842	1104	2006431-55	1104
985443A	2016	1223916	2058	1471872-1	1122	1473571-1	2016	1474778-10	1104	1967799-1	2030	2006441-91	1104
985444	2016	1223919	2018	1471872-2	1122	1473572-1	2009	1474778-11	1104	1967801	2030	2006441-122	1122
985444A	2016	1223920	2009	1471872-4	1122	1473572-3	2030	1474778-13	1114	1967813	1104	2006441-132	1122
985472	1104	1223921	1123	1471872-5	1122	1473574-1	2023	1474778-16	1122	1969497	1104	2006441-132	1104
985543	1617	1223926	565	1471872-6	1104	1473576	2016	1474778-18	1104	2000433-150	1123	20064512-40	1104
985519	2016	1223927	1617	1471872-7	1122	1473576-1	2009	1474778-19	1104	2000433-150	1123	20064512-40	1104
985621	1122	1223928	1102	1471872-8	1122	1473577-1	2016	1474778-20	1104	2000433-150	1123	20064512-40	1104
985715	2035	1223929	1102	1471872-10	1122	1473577-1	2016	1474778-21	1104	2000433-150	1123	20064512-40	1104
986014	1104	1223930	1123	1471872-11	1122	1473578-1	2023	1474778-22	1104	2000433-150	1123	20064512-40	1104
986015	1617	1223931	1123	1471872-12	1122	1473578-2	1617	1474778-23	1104	2000433-150	1123	20064512-40	1104
986576	2016	1224031	2023	1471872-13									

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-		
2006623-148	2030	2092609-0025	2023	2320596(,25C458(D))	2009	2321511	2058	2330553(,RH1)	1104	2485078-2(SEARS)	2009	3596062	1123
2006627-54	1122	2092609-0026	2009	2320596(,25C458(D))	2009	2321541	2009	2330561	1104	2485078-3	1617	3596063	2023
2006681-93	2016	2092609-0027	2009	2320596(,25C458(D))	2009	2321621	2009	2330562	1104	2485079-1	1617	3596067	2016
2006681-94	2016	2092609-0028	2009	2320596(,25C459(C))	2009	2321621(,25C458(B))	2009	2330564	1104	2485079-2	1617	3596068	2016
2006681-95	2016	2092609-0705	1617	2320596(,25C459(D))	2009	2321621(,25C458(C))	2009	2330612	1104	2485079-3	1617	3596069	2016
2006681-96	1617	2092609-0706	1617	2320598	2009	2321621(,25C1740)	2009	2330741	562	2485080	1122	3596070	2016
2008292-56	2016	2092609-0707	1617	2320598(,25C458(B))	2009	2321621(,25C1740R)	2009	2330743	562	2485080(DIODE)	1123	3596071	2016
2008292-88	1122	2092609-0713	1617	2320598(,25C458(B))	2009	2321621(,25C1740R)	2009	2330771	1114	2486836	1104	3596072	2016
2008292-89	1104	2092609-0715	1617	2320598(,25C458(C))	2009	2321647	2009	2330773	1114	2487340	2023	3596091	2020
2008299-1	2016	2092609-0718	1617	2320598(,25C458(C))	2009	2321647(,25C1213D)	2009	2331141	1104	2487341	2023	3596092	2020
2008299-2	1123	2092609-0720	2009	2320598(,25C458(D))	2009	2321647(,25C1213D)	2009	2331142	1104	2495083	1123	3596116	2030
2008299-3	1104	2092609-0721	2009	2320598(,25C458(D))	2009	2321652	2041	2331152	563	2495083-2	1123	3596117	2009
2008302-41	1104	2092609-1	1617	2320598(,25C458(D))	2009	2321652(,25C1343-05)	2041	2331154	563	2495084	1123	3596118	2023
2010088-49	2009	2092609-2	1617	2320602	2020	2321751	2023	2331154(,HZ12(A))	563	2495166-1	2016	3596128	2023
2010494-3	2016	2092609-3	1617	2320602	2020	2321751(,25A844D)	2023	2331154(,HZ12(B))	563	2495166-2	1617	3596260	2016
2010494-4	2009	2092609-5	1617	2320631	2023	2322191	2009	2331154(,HZ12(C))	563	2495166-4	1617	3596261	2016
2010499-52	2009	2092693-0724	2016	2320631(,25A673C)	2023	2322191(,25C1740Q)	2009	2331154(,HZ12A)	563	2495166-9	1617	3596338	2009
2010957-49	1104	2092693-0725	2016	2320631(,25A673C)	2023	2322191(,25C1740R)	2009	2331154(,HZ12A)	563	2495166-9	1617	3596339	2009
2010967-83	1122	2093308-070	2016	2320631(,25A673C)	2023	2322191(,25C1740R)	2009	2331154(,HZ12B)	563	2495380	1123	3596440	2016
2013019-117	1104	2093308-0700	2016	2320631(,25A673C)	2023	2322191(,25C1740Q)	2009	2331154(,HZ12C)	563	2495383	1123	3596444	2020
2057013-0004	2023	2093308-0701	1617	2320631(,25A673C)	2023	2322191(,25C1740R)	2009	2331155	563	2495520	2016	3596447	2020
2057013-0007	2023	2093308-0702	1617	2320631(,25A673C)	2023	2322191(,25C1740R)	2009	2331155(,HZ-12C)	563	2495521-1	1617	3596449	2020
2057013-0008	2023	2093308-0703	1617	2320631(,25A673C)	2023	2322191(,25C1740R)	2009	2331201	1102	2495521-2	2016	3596451	2027
2057013-0012	2023	2093308-0704	2016	2320631(,25A673C)	2023	2322191(,25C1740R)	2009	2331201(,W06-B)	1104	2495522-4	1617	3596452	2027
2057013-0701	2023	2093308-0704A	2016	2320631(,25A673C)	2023	2322191(,25C1740R)	2009	2331201(,W06B)	1102	2495523-1	2016	3596453	2027
2057013-0702	2023	2093308-0705	2016	2320631(,25A673C)	2023	2322191(,25C1740R)	2009	2331201(,WO-6B)	1102	2495529	1123	3596454	2027
2057013-0703	2023	2093308-0706	2016	2320631(,25A673C)	2023	2322191(,25C1740R)	2009	2331351	1122	2495529(ARVIN)	2030	3596570	1617
2057062-0702	1104	2093308-0706A	2016	2320631(,25A673C)	2023	2322191(,25C1740R)	2009	2331351(,152076)	1122	2495529(DIODE)	1123	3597103	2016
2057199-0708A	2041	2093308-0708	1617	2320631(,25A673D)	2023	2322191(,25C1740R)	2009	2331351(,152473H)	1122	2496125-2	1617	3597104	2016
2057199-0700	2041	2093308-0725	2016	2320643	2023	2322191(,25C1740R)	2009	2331441	1122	2496436	1123	3597114	2016
2057199-0701	2041	2093308-1	2016	2320643	2023	2322191(,25C1740R)	2009	2331441	1123	2497094-1	2016	3597260	2016
2057323-0500	2041	2093308-2	2016	2320644	2023	2322191(,25C1740R)	2009	2331481	1104	2497094-2	2016	3597261	2016
2057323-0501	2041	2093308-3	2016	2320644(,25C1213C)	2009	2322191(,25C1740R)	2009	2331481(,S1B01-02)	1104	2498163	2030	3650238A	2023
2060041	1104	2093308-8708	2009	2320644(,25C1213C)	2009	2322191(,25C1740R)	2009	2331481(,S1B01-02)	1104	2498163	2030	3650238A	2023
2091858-0715	2009	2095083	1123	2320644(,25C1213D)	2009	2322191(,25C1740R)	2009	2331481(,S1B01-02)	1104	2498456-2	2016	3670724H	2009
2091859-0711	2016	2095083	1123	2320644(,25C1213D)	2009	2322191(,25C1740R)	2009	2331481(,V06CS)	1104	2498457-2	1617	3673351K	2009
2092055-0001	1123	2097013-0702	2030	2320646	2009	2322191(,25C1740R)	2009	2331491	565	2498482-2	2016	3673354G	2009
2092055-0004	565	2231154	563	2320646	2009	2322191(,25C1740R)	2009	2331491(,RD4.7EB)	565	2498482-2	2016	3673354G	2009
2092055-0007	1123	2231154(,HZ-12A)	563	2320646(,25C1213B)	2009	2322191(,25C1740R)	2009	2331493	565	2498507-2	2016	3939307-002	2016
2092055-001	1123	2316177	2016	2320646(,25C1213B)	2009	2322191(,25C1740R)	2009	2331493	565	2498507-2	2016	4036887-P8	1617
2092055-0010	1123	2320022	1617	2320646(,25C1313B)	2009	2322191(,25C1740R)	2009	2331497	561	2498507-3	2016	4036924-P1	1617
2092055-0711	1123	2320031	2016	2320646(,25C1313B)	2009	2322191(,25C1740R)	2009	2331502	1114	2498508-2	2016	4036924-P2	1617
2092055-0713	1123	2320041	2009	2320646-1	2009	2322191(,25C1740R)	2009	2331843	563	2498508-3	2016	4036924-P2	1617
2092055-0714	1617	2320041H	2016	2320647	2009	2322191(,25C1740R)	2009	2331843(,HZ-12B2)	563	2498508-3	2016	4037325-P1	1104
2092055-0714(DIODE)	1122	2320042	2016	2320647(,25C1213C)	2009	2322191(,25C1740R)	2009	2331912	1104	2498512	2023	4037413-P1	561
2092055-1	1123	2320052	2030	2320647(,25C1213C)	2009	2322191(,25C1740R)	2009	2331991	1114	2498530	1123	4037586-P1	1617
2092055-4	565	2320062	2016	2320647(,25C1213D)	2009	2322191(,25C1740R)	2009	2332112	1617	2498530	1123	4037586-P2	1617
2092055-7	1123	2320063	2016	2320647(,25C1213D)	2009	2322191(,25C1740R)	2009	2332112	1617	2498902-1	2016	4037647-P1	2017
2092117-0018	2016	2320073	2016	2320647(,25C1213C)	2009	2322191(,25C1740R)	2009	2332142	2035	2498902-2	2016	4037647-P2	2017
2092405-7	1123	2320083	2020	2320647(,25C1213C)	2009	2322191(,25C1740R)	2009	2332142	2035	2498903-1	2016	4037800-P1	1617
2092417-0017	2016	2320111	1617	2320647(,25C1213D)	2009	2322191(,25C1740R)	2009	2332251	1104	2498903-2	2058	4037800-P2	1617
2092417-0018	2016	2320123	1617	2320647(,25C1213D)	2009	2322191(,25C1740R)	2009	2332251(,RH15)	1104	2498903-3	2016	4037800-P2	1617
2092417-0019	2016	2320141	2016	2320647(,25C1213D)	2009	2322191(,25C1740R)	2009	23322791	1173	2498904-3	1617	4041200-30110	1122
2092417-0711	2016	2320141H	2016	2320647(,25C1213D)	2009	2322191(,25C1740R)	2009	23322791	1173	2498904-4	1617	4041200-40100	1123
2092417-0712	2016	2320143	2016	2320647(,25C1213D)	2009	2322191(,25C1740R)	2009	23322851	1104	2498904-4	1617	4080187-0502	2020
2092417-0713	2016	2320143(,25C717TM)	2016	2320647(,25C1213D)	2009	2322191(,25C1740R)	2009	23322851(,EH1Z)	1104	2498904-6	1617	4080187-0504	2041
2092417-0714	2016	2320162	2023	2320647(,25C1213D)	2009	2322191(,25C1740R)	2009	2333003	1104	2499950	2016	4080187-0506	2020
2092417-0715	2016	2320162	2023	2320647(,25C1213D)	2009	2322191(,25C1740R)	2009	2333011	1104	2520063	1617	4080187-0507	2020
2092417-0716	2016	2320233	2030	2320647(,25C1213D)	2009	2322191(,25C1740R)	2009	2333101	1122	2552007	1114	4080320-0508	2041
2092417-0719	1617	2320281	2055	2320647(,25C1213D)	2009	2322191(,25C1740R)	2009	2333173	1123	2610786	1801	4080320-0501	2041
2092417-0720	1617	2320291	2055	2320647(,25C1213D)	2009	2322191(,25C1740R)	2009	2333201	1104	2712080	1617	4080320-0504	2041
2092417-0721	1617	2320299	2055	2320647(,25C1213D)	2009	2322191(,25C1740R)	2009	2333231	1114	2811925-002	1114	4080320-0504</	

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4890210A20	1127	4890488A19(.25D638R)	2030	5330104H	1104	7026020	2009	7851650-01	2014	8033688	1617	11115017	1123
4890210A21	545			5330131	1122	7026024	2020	7851651-01	2018	8033688	1617	11115020	1124
4890210A25	1123	4890488A32	1104	5330132	1122	7027002	1104	7851652-01	2023	8033720	2009	11115024	1123
4890210A26	1122	4890488A67	1114	5330133	1122	7027005	1104	7851654-01	1123	8033730	1617	11115025	1122
4890210A31	2020	4890549A22	1104	5330212H	1122	7027023	1104	7851655-01	1123	8033802	2016	11115026	1123
4890210A32	561	4890562A02	1104	5330261	1122	7027038	1104	7851657-01	1104	8033804	2016	11115027	1122
4890210A53	2023	4890562A04	1123	5330261H	1122	7027039	1104	7851947-01	1123	8033943	2016	11115029	1123
4890210A55	1104	4890562A29	1114	5330322	562	7043216	1104	7851949-01	1617	8033944	1617	11115030	563
4890210A57	1165	5076054	1122	5330328	562	7043261	1104	7851950-01	1617	8034903	2020	11115040	1067
4890210A62	2030	5175460	1822	5330331	1123	7070692	1104	7851952-01	1617	8036683	2016	11115042	1104
4890210A67	2030	5190458A07	1712	5330332	1123	7071021	2009	7851953-01	2023	8037230	1617	11115048	1104
4890210A78	561	5190528A29	1771	5330334	1122	7071031	2009	7851954-01	2023	8037232	1617	11115049	1104
4890223A61	2068	5190530A22	1771	5330335	1123	7100460	1123	7851956-01	2020	8037233	1617	11115053	1123
4890223A62(.25D127-AP)	2068	5190538A22	1771	5330336	1104	7100628	1104	7852273-01	1123	8037245	2020	11115054	1104
4890223A62(.25D127-LB)	2068	519078M12LE	1771	5330341	1104	7100630	1104	7852273-01A	1123	8037248	1617	11115064	561
4890223A62(.25D127LB)	2068	5300073-15	564	5330371	1104	7116060	1123	7852264-01	1104	8037722	2058	11115065	1104
4890223A64	1104	5300113-1	1104	5330372	1104	7129386-P2	1123	7852438-0	1123	8037723	2058	11115066	1114
4890223A65	1104	5320004	2009	5330381	1104	7200953	1122	7852438-01	1123	8050339	1712	11115071	563
4890223A66	1104	5320022	2009	5330431	1104	7279497	1104	7852439-01	1123	8050386	1731	11115075	1101
4890223A67	1104	5320023	2009	5330532	563	7279797(G.M.)	1617	7852452-01	2009	8051060	1123	11115089	561
4890223A68	1104	5320023H	2009	5330541	564	7279893	1123	7852454	1617	8052444	1123	11115095	1114
4890223A69	1104	5320024	2009	5330571	1122	7282358	1123	7852454-01	2016	8100904	1664	11115097	561
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4890223A75	2023	5320026H	2023	5330721	1123	7286858	1617	7852457-01	2009	8110904	2009	11115131	1104
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4890232A78	1104	5320067	2009	5331001	1122	7295197	1617	7852907-01	565	8120126	1122	13030256	1114
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4890235A14	1104	5320326H	2016	5340001(TRANSISTOR)	2009	7297980	2016	7853093-01	2009	8521687-01	1743	13030313	1104
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A3TE230	2041	A5F2	1104	A5T5227	2023	A7F5	1114	A10M	1104	A48-134837	2016	A121-794	2023
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A4U	1617	A3T3904	1617	A6T	2016	A8T4058	2023	A22D1	1114	A108	1617	A211	2017
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A4V-2	1617	A3T4029	2023	A6V-5	2016	A8T4062	2023	A24MW595	2016	A112-000155	2023	A245(AMC)	2016
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A345	1617	A482(2S)	2023	A494F	2023	A502R	2023	A530GR	2023	A561-RED	2023	A564H	2023
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A400	1104	A482B	2023	A494GN	2023	A502Y	2023	A530H1	2023	A561-YEL	2023	A564K	2023
A402(2S)	2023	A482C	2023	A494GR	2023	A509(2S)	2023	A530HA	2023	A561-YL	2023	A564L	2023
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A417-19	2016	A482F	2023	A494K	2023	A509-OR	2023	A530J	2023	A561RD	2023	A564P(2S)	2023
A417-116	2023	A482G	2023	A494L	2023	A509-R	2023	A530K	2023	A561RED	2023	A564P A	2023
A417-132	2023	A482GN	2023	A494M	2023	A509-RD	2023	A530L	2023	A561Y	2023	A564Q(2S)	2023
A417-153	2023	A482H	2023	A494O	2023	A509-Y(2S)	2023	A530M	2023	A561YEL	2023	A564OP	2023
A417-154	2016	A482J	2023	A494OR	2023	A509-YE	2023	A530OR	2023	A561YL	2023	A564QR(2S)	2023
A417-176	2023	A482K	2023	A494R	2023	A509A	2023	A530R	2023	A562	2023	A564QRS	2023
A417-182	2023	A482L	2023	A494X	2023	A509B	2023	A530X	2023	A562-0	2023	A564R	2023
A417-184	2023	A482M	2023	A494Y	2023	A509BL	2023	A530Y	2023	A562-GR	2023	A564S(2S)	2023
A417-190	2016	A482OR	2023	A495	2016	A509C	2023	A535	2023	A562-GRN	2023	A564T(2S)	2023
A417-196	2023	A482R	2023	A495(2S)	2023	A509D	2023	A539(2S)	2023	A562-O(2S)	2023	A564X	2023
A417-200	2023	A482X	2023	A495-0	2023	A509E	2023	A539A	2023	A562-O(JAPAN)	2023	A564XL	2023
A417-201	2023	A482Y	2023	A495-1	2023	A509F	2023	A539B	2023	A562-O(KOREA)	2023	A564Y	2023
A417-205	2016	A484	2016	A495-GN	2023	A509G	2023	A539C	2023	A562-OR	2023	A565(2S)	2023
A417-235	2023	A484(ADMIRAL)	2016	A495-O(2S)	2023	A509GN	2023	A539D	2023	A562-ORG	2023	A565A(2S)	2023
A418	2016	A486	2016	A495-OF	2023	A509G-O	2023	A539E	2023	A562-R(2S)	2023	A565AB	2023
A419	2016	A488-A0060	1122	A495-OR	2023	A509GR(2S)	2023	A539F	2023	A562-RD	2023	A565B(2S)	2023
A420	2016	A489	2016	A495-ORG	2023	A509GR-1	2023	A539G	2023	A562-RED	2023	A565BA	2023
A422-A	1104	A489(2S)	2027	A495-ORG-G	2023	A509G-Y	2023	A539GN	2023	A562-Y(2S)	2023	A565C(2S)	2023
A427	2016	A489-O(2S)	2027	A495-Q	2023	A509H	2023	A539H	2023	A562-YE	2023	A565D(2S)	2023
A429-0981-12	2016	A489-R(2S)	2027	A495-R(2S)	2023	A509J	2023	A539J	2023	A562-YEL	2023	A565E	2023
A454	1617	A489-Y(2S)	2027	A495-RD	2023	A509K	2023	A539K	2023	A562	2023	A565F	2023
A465-181-19	2016	A490	2016	A495-RED	2023	A509L	2023	A539L(2S)	2023	A562E	2023	A565G	2023
A466	2030	A490(2S)	2027	A495-RED-G	2023	A509M	2023	A539M	2023	A562G(2S)	2023	A565GN	2023
A467	2023	A490-O	2027	A495-Y(2S)	2023	A509OR	2023	A539OR	2023	A562GR(2S)	2023	A565H	2023
A467(2S)	2023	A490-R	2027	A495-YEL	2023	A509Q	2023	A539R	2023	A562GRN	2023	A565J	2023
A467A	2023	A490-Y	2027	A495-YEL-G	2023	A509R(2S)	2023	A539X	2023	A562O	2023	A565K(2S)	2023
A467B	2023	A490A	2027	A495-YL	2023	A509RD	2023	A539Y	2023	A562Q	2023	A565L	2023
A467C	2023	A490B	2027	A495A	2023	A509T	2023	A542(2S)	2023	A562R(2S)	2023	A565M	2023
A467D	2023	A490C	2027	A495B	2023	A509V	2023	A542A	2023	A562RD	2023	A565OR	2023
A467E	2023	A490D	2027	A495C	2023	A509X	2023	A542B	2023	A562RED	2023	A565R	2023
A467F	2023	A490E	2027	A495D(2S)	2023	A509Y(2S)	2023	A542C	2023	A562T	2023	A565S	2023
A467G(2S)	2023	A490F	2027	A495E	2023	A509YE	2023	A542D	2023	A562TM	2023	A565Y	2023
A467GN	2023	A490G	2027	A495F	2023	A514-022057	1123	A542E	2023	A562TM-0	2023	A567	2023
A467G-O(2S)	2023	A490GN	2027	A495G	2023	A514-023626	1104	A542F	2023	A562TM-O	2023	A567A	2023
A467G-R(2S)	2023	A490H	2027	A495G-GR(2S)	2023	A514-025607	1104	A542G	2023	A562TMO	2023	A567B	2023
A467G-Y(2S)	2023	A490J	2027	A495GN	2023	A514-027757	1104	A542GN	2023	A562TM-0FA	2023	A567C	2023
A467H	2023	A490K	2027	A495G-O(2S)	2023	A514-028072	1104	A542H	2023	A562TM-Y	2023	A567D	2023
A467J	2023	A490L	2027	A495G-R(2S)	2023	A514-028073	1104	A542J	2023	A562TM-YFA	2023	A567E	2023
A467K	2023	A490M	2027	A495G-Y(2S)	2023	A514-033338	2009	A542K	2023	A562TQ	2023	A567F	2023
A467L	2023	A490OR	2027	A495H	2023	A514-033903	1104	A542L	2023	A562TO	2023	A567G	2023
A467M	2023	A490R	2027	A495J	2023	A514-035596	1104	A542M	2023	A562V	2023	A567GN	2023
A467OR	2023	A490X	2027	A495K	2023	A514-038984	1114	A542OR	2023	A562VO	2023	A567GR	2023
A467R	2023	A490Y(2S)	2027	A495L	2023	A514-040296	2035	A542R	2023	A562Y(2S)	2023	A567H	2023
A467X	2023	A490YA	2027	A495M	2023	A514-042791	1122	A542X	2023	A562Y(JAPAN)	2023	A567J	2023
A467Y	2023	A492	2016	A495O	2023	A514-044910	2023	A542Y	2023	A562Y(KOREA)	2023	A567K	2023
A472	2009	A493(2S)	2023	A495OF	2023	A514-047830	2020	A543(2S)	2023	A562YE	2023	A567L	2023
A-473	2058	A493-GR	2023	A495OR	2023	A514-0339903	1104	A550(2S)	2023	A562YEL	2023	A567M	2023
A473	2016	A493-O(2S)	2023	A495R	2023	A515	2041	A550A(2S)	2023	A562Y-TM	2023	A567OR	2023
A473(2S)	2027	A493-Y	2023	A495RD	2023	A522	2041	A550AB	2023	A564	2023	A567R	2023
A473-GR(2S)	2027	A493A	2023	A495RED	2023	A522(2S)	2023	A550AQ(2S)	2023	A564-0(2S)	2023	A567X	2023
A473-O(2S)	2027	A493B	2023	A495RED-G	2023	A522-3	2041	A550AR	2023	A564-1	2023	A567Y	2023
A473-O(KOREA)	2027	A493C	2023	A495RO	2023	A522A(2S)	2023	A550AS	2023	A564-O(2S)	2023	A568(2S)	2023
A473-R(2S)	2027	A493D	2023	A495W(2S)	2023	A522AL	2023	A550B	2023	A564-OGD	2023	A568-OR	2023
A473-Y(2S)	2027	A493E	2023	A495W1	2023	A522B	2023	A550BC	2023	A564-OR	2023	A568A	2023
A473B	2027	A493F	2023	A495W1	2023	A522C	2023	A550BL	2023	A564-P	2023	A568B	2023
A473D	2027	A493G	2023	A495X	2023	A522D	2023	A550C	2023	A564-Q	2023	A568C	2023
A473GR	2027	A493G-GR	2023	A495Y(2S)	2023	A522E	2023	A550D	2023	A564-R	2023	A568D	2023
A473R	2027	A493GN	2023	A495YEL	2023	A522F	2023	A550P	2023	A564A(2S)	2023	A568E	2023
A473Y(2S)	2027	A493G-Y	2023	A495YEL-G	2023	A522G	2023	A550Q(2S)	2023	A564A(JAPAN)	2023	A568F	2023
A480	2016	A493H	2023	A495YL	2023	A522GN	2023	A550R(2S)	2023	A564ABQ-1	2023	A568G	2023
A480(2S)	2023	A493J	2023	A496	2023	A522H	2023	A550S(2S)	2023	A564AG	2023	A568GN	2023
A480-OR	2023	A493K	2023	A497	2016	A522J	2023	A550Y	2023	A564AK	2023	A568H	2023
A480A	2023	A493L	2023	A502(2S)	2023	A522K	2023	A553	2023	A564AL	2023	A568J	2023
A480B	2023	A493M	2023	A502-0	2023	A522L	2023	A554	2023	A564AP(2S)	2023	A568K	2023
A480C	2023	A493OR	2023	A502-OR	2023	A522M	2023	A554A	2023	A564A-Q	2023	A568L	2023
A480D	2023	A493R	2023	A502-R	2023	A522OR	2023	A555	2023	A564AQ(2S)	2023	A568M	2023
A480E	2023	A493X	2023	A502-Y	2023	A522R	2023	A556	2023	A564A-R	2023	A568OR	2023
A480F	2023	A493Y(2S)	2023	A502A	2023	A522X	2023	A556-142	1123	A564AR	2023	A568R	2023
A480G	2023	A-494	2009	A502B	2023	A522Y	2023	A558	2023	A564AR(JAPAN)	2023	A568X	2023
A480GN	2023	A494	2023	A502C	2023	A523	2041	A559	2023	A564A-S	2023	A568Y	2023
A480H	2023	A494(2S)	2023	A502D	2023	A524	2023	A559A	2023	A564AS(2S)	2023	A569	2023
A480J	2023	A494-GR(2S)	2023	A502E	2023	A526	2023	A561	2023	A564B	2023	A569(2S)	2023
A480K	2023	A494-GR-1	2023	A502F	2023	A530(2S)	2023	A561(2S)	2023	A564C	2023	A569A	2023
A480L	2023	A494-O(2S)	2023	A502G	2023	A530A	2023	A561-0	2023	A564D	2023	A569B	2023
A480M	2023	A494-OR	2023	A502GM	2023	A530B	2023	A561-GR	2023	A564E	2023	A569C	2023
A480OR	2023	A494-Y(2S)	2023	A502H	2023	A530C	2023	A561-GRN	2023	A564F(2S)	2023	A569D	2023

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
A569E	2023	A601KE	2023	A640M(2S)	2023	A666H(2S)	2023	A677L	2023	A705M	2023	A749C	2016
A569F	2023	A601KF	2023	A640S	2023	A666HR(2S)	2023	A677M	2023	A705OR	2023	A75C	2023
A569G	2023	A601KF(JAPAN)	2023	A641	2023	A666I	2023	A677OR	2023	A705R	2023	A75C(2S)	2043
A569GN	2023	A601L	2023	A641(2S)	2023	A666QRS(2S)	2023	A677R	2023	A705X	2023	A752-4004-248	2023
A569H	2023	A601M	2023	A641(PBP)	2023	A666QRS	2023	A677X	2023	A705Y	2023	A75C(2S)	2027
A569J(2S)	2023	A608NP	2023	A641A(2S)	2023	A666R(2S)	2023	A677Y	2023	A709	2023	A755(2S)	2027
A569K	2023	A608OR	2023	A641B(2S)	2023	A666S(2S)	2023	A678(2S)	2023	A714	2043	A755B(2S)	2027
A569L	2023	A608P	2023	A641BL	2023	A666Y	2023	A678-O	2023	A714-L	2023	A755C(2S)	2027
A569M	2023	A608R	2023	A641C(2S)	2023	A667-G	2009	A678-OR	2023	A714L	2043	A75B	2043
A569OR	2023	A608SP	2023	A641D(2S)	2023	A667-GRN	2016	A678A	2023	A718(2S)	2023	A75B(2S)	2043
A569R	2023	A608X	2023	A641G	2023	A667-O	2030	A678B	2023	A719(2S)	2023	A758A	2043
A569X	2023	A608Y	2023	A641GR	2023	A667-ORG	2016	A678C	2023	A719-Q	2023	A758B	2043
A569Y	2023	A609(2S)	2023	A641K	2023	A667-RED	2016	A678D	2023	A719K	2023	A759(2S)	2023
A570(2S)	2023	A609A(2S)	2023	A641L	2023	A667-Y	2009	A678E	2023	A719NC	2023	A759A	2023
A570A(TRANS)	2023	A609B(2S)	2023	A641L(2S)	2023	A667-YEL	2016	A678F	2023	A719O	2023	A759B	2023
A570B(TRANS)	2023	A609C(2S)	2023	A641M(2S)	2023	A667RED	2016	A678G	2023	A719PQR	2023	A760	2023
A570C(TRANS)	2023	A609D(2S)	2023	A641O	2023	A668-G	2009	A678GN	2023	A719Q(2S)	2023	A763	2023
A570D(TRANS)	2023	A609E(2S)	2023	A641OR	2023	A668-GRN	2016	A678H	2023	A719R(2S)	2023	A767	2023
A570E(TRANS)	2023	A609F(2S)	2023	A641R	2023	A668-O	2030	A678J	2023	A719S(2S)	2023	A768	2027
A570F	2023	A609G(2S)	2023	A641S	2023	A668-ORG	2016	A678K	2023	A720(2S)	2023	A768G	2027
A570G	2023	A609GN	2023	A641Y	2023	A668-Y	2009	A678L	2023	A720-G	2023	A768O	2027
A570GN	2023	A609J	2023	A642	2023	A668-YEL	2016	A678M	2023	A720-O	2023	A768Y	2027
A570M	2023	A609K	2023	A642(2S)	2023	A669-G	2009	A678OR	2023	A720-Q	2023	A772B1	2016
A570N	2023	A609L	2023	A642-254	2016	A669-GRN	2016	A678R	2023	A720-R	2023	A772EM	2016
A570K	2023	A609M	2023	A642-260	2016	A669-Y	2009	A678X	2023	A720A	2023	A772FE	2016
A570L	2023	A609OR	2023	A642-268	2016	A669-YEL	2016	A678Y	2023	A720B	2023	A774	2023
A570M(TRANS)	2023	A609R	2023	A642A(2S)	2023	A670(2S)	2027	A679(2S)	2043	A720C	2023	A774A	2023
A570OR	2023	A609Y	2023	A642B(2S)	2023	A670A(2S)	2027	A679-R	2043	A720D	2023	A782	2023
A570R	2023	A610	2023	A642C(2S)	2023	A670B(2S)	2027	A679-Y	2043	A720L	2023	A786	2023
A570X	2023	A610(2S)	2023	A642D(2S)	2023	A670C(2S)	2027	A680(2S)	2043	A720NC	2023	A786-Q	2023
A570Y	2023	A611	2023	A642E(2S)	2023	A672	2023	A680-R	2043	A720Q(2S)	2023	A786-Q	2023
A572	2041	A611(2S)	2023	A642F(2S)	2023	A672A(2S)	2023	A680-Y	2043	A720QR	2023	A786QL	2023
A572(2S)	2023	A613-1012	1123	A642G	2023	A672B(2S)	2023	A685	2023	A720R(2S)	2023	A786R	2023
A572-1	2041	A620	2023	A642GN	2023	A672C(2S)	2023	A691M4	1122	A720S(2S)	2023	A787	2023
A572T	2023	A621	2023	A642H	2023	A673(2S)	2023	A691M5	1122	A720Y	2023	A788	2023
A573	2023	A628(2S)	2023	A642J	2023	A673-C	2023	A691M5-2	1122	A721(2S)	2023	A798	2023
A575	2023	A628-O	2023	A642K	2023	A673-D	2023	A692T5	1104	A721Q	2023	A800	1114
A576-0001-002	2023	A628-OR	2023	A642L	2023	A673-O	2023	A692T5-O	1104	A721R	2023	A800-523-01	2023
A576-0001-013	2023	A628A(2S)	2023	A642L(2S)	2023	A673-OR	2023	A692X13-4	1123	A721S(2S)	2023	A800-523-02	2023
A578(2S)	2023	A628A(JAPAN)	2023	A642M	2023	A673A(2S)	2023	A692X16-0	1104	A721T(2S)	2023	A800-527-00	2023
A579(2S)	2023	A628AA	2023	A642OR	2023	A673A(JAPAN)	2023	A693	2023	A721U(2S)	2023	A811	2023
A593	1617	A628AD	2023	A642P	2023	A673AB(2S)	2023	A693C	2023	A722(2S)	2023	A811A	2023
A600	1104	A628AE	2023	A642S	2023	A673AC(2S)	2023	A696(2S)	2023	A722S(2S)	2023	A811C5	2023
A600(RECTIFIER)	1104	A628AF	2023	A642S(2S)	2023	A673AC(JAPAN)	2023	A696D(2S)	2023	A723(2S)	2023	A811C6	2023
A603	2023	A628A-F	2023	A642V	2023	A673AD(2S)	2023	A697(2S)	2023	A723R	2023	A811C7	2023
A603(2S)	2023	A628B	2023	A642W(2S)	2023	A673AK	2023	A697C(2S)	2023	A725(2S)	2023	A811C8	2023
A603A	2023	A628C	2023	A642X	2023	A673AKA	2023	A700(2S)	2027	A725EH2AB1	1114	A812	2023
A603B	2023	A628D(2S)	2023	A642Y	2023	A673AKB	2023	A700B(2S)	2027	A725Y	2023	A812M3	2023
A603C	2023	A628E(2S)	2023	A644L	2016	A673AKC	2023	A700Y(2S)	2027	A726(2S)	2023	A812M4	2023
A603D	2023	A628EF	2023	A644S	2016	A673AKD	2023	A701	2023	A726Y	2023	A812M5	2023
A603E	2023	A628F(2S)	2023	A643L	2016	A673AS(2S)	2023	A701F(2S)	2023	A728	2023	A812M6	2023
A603F	2023	A628G	2023	A643S	2016	A673B(2S)	2023	A701FO	2023	A728A	2023	A812M7	2023
A603G	2023	A628IGH	2023	A648(2S)	2043	A673C(2S)	2023	A701FJ(2S)	2023	A733	2023	A825(2S)	2023
A603GN	2023	A628H	2023	A649	2043	A673C(JAPAN)	2023	A701FO(2S)	2023	A733(2S)	2023	A825Q	2023
A603H	2023	A628I	2023	A649A	2043	A673C2(2S)	2023	A702(2S)	2023	A733-P	2023	A825S	2023
A603J	2023	A628K	2023	A649L	1617	A673D(2S)	2023	A704	2023	A733-Q	2023	A825S	2023
A603K	2023	A628L	2023	A649S	1617	A673D(JAPAN)	2023	A704A	2023	A733A(2S)	2023	A826	2023
A603L	2023	A628M	2023	A650	2043	A673E	2023	A704B	2023	A733AK	2023	A826P	2023
A603M	2023	A628OR	2023	A651	2043	A673F	2023	A704C	2023	A733AP	2023	A826Q	2023
A603OR	2023	A628R	2023	A659(2S)	2023	A673G	2023	A704D	2023	A733AP(JAPAN)	2023	A826R	2023
A603R	2023	A628Y	2023	A659A	2023	A673GN	2023	A704E	2023	A733AQ	2023	A826S	2023
A603X	2023	A628Y	2023	A659B	2023	A673H	2023	A704F	2023	A733AQ(JAPAN)	2023	A826A	2023
A603Y	2023	A629(2S)	2023	A659D(2S)	2023	A673J	2023	A704G	2023	A733H(2S)	2023	A829	2023
A608	2023	A629A	2023	A659E(2S)	2023	A673K	2023	A704GN	2023	A733I	2023	A829A	2023
A608(2S)	2023	A629B	2023	A659F(2S)	2023	A673L	2023	A704H	2023	A733IQ(2S)	2023	A829B	2023
A608-D	2023	A629C	2023	A659G	2023	A673M	2023	A704J	2023	A733P(2S)	2023	A829C	2023
A608-C(2S)	2023	A629D	2023	A659L	2023	A673OR	2023	A704K	2023	A733PQ	2023	A829D	2023
A608-E(2S)	2023	A629E	2023	A659P	2023	A673R	2023	A704L	2023	A733Q(2S)	2023	A829E	2023
A608-F(2S)	2023	A629F	2023	A659R	2023	A673X	2023	A704M	2023	A733Q1P(2S)	2023	A829F	2023
A608-O	2023	A629G	2023	A659Y	2023	A673Y	2023	A704OR	2023	A733QP	2023	A833	2023
A608-OR	2023	A629GN	2023	A661(2S)	2023	A675(2S)	2023	A704R	2023	A733R(2S)	2023	A836(2S)	2023
A608A(2S)	2023	A629H	2023	A661-GR	2023	A677(2S)	2023	A704X	2023	A733Y(KOREA)	2023	A836C	2023
A608AE	2023	A629J	2023	A661-O(2S)	2023	A677-O	2023	A704Y	2023	A735	2023	A836D(2S)	2023
A608AF	2023	A629K	2023	A661-R	2023	A677-O	2023	A705	2023	A744(2S)	2023	A836E(2S)	2023
A608B(2S)	2023	A629L	2023	A661-Y	2023	A677-OR	2023	A705(2S)	2023	A745	2043	A836F	2023
A608BL	2023	A629M	2023	A661Y(2S)	2023	A677A	2023	A705A	2023	A745A	2043	A838	2023
A608C(2S)	2023	A629OR	2023	A663(2S)	2043	A677B	2023	A705B	2023	A746(2S)	2043	A838B	2023
A608D(2S)	2023	A629R	2023	A663-BL	2043	A677C	2023	A705C	2023	A747	2043	A838C	2023
A608E(2S)	2023	A629X	2023	A663-R	2043	A677D	2023	A705D	2023	A747(2S)	2043	A841	2023
A608E(JAPAN)	2023	A629Y	2023	A663-Y	2043	A677E	2023	A705E	2023	A747A	2043	A841(2S)	2023
A608F(2S)	2023	A630	2023	A666(2S)	2023	A677F	2023	A705F	2023	A747A(2S)	2043	A841-BL	2023
A608F(JAPAN)	2023	A640(2S)	2023	A666A(2S)	2023	A677G	2023	A705G	2023	A747B	2016	A841-GR	2023
A608G(2S)	2023	A640A(2S)	2023	A666B	2023	A677GN	2023	A705GN	2023	A748	2027	A842	2023
A608H	2023	A640B(2S)	2023	A666BL	2023	A677H	2023	A705H	2023	A748B	2023	A842(2S)	2023
A608H	2023	A640C(2S)	2023	A666C	2023	A677HL	2023	A705J	2023	A748C	2016	A842-BL	2023
A608J	2023	A640E(2S)	2023	A666D	2023	A677J	2023	A705K	2023	A749	1617	A842-GR	2023
A608K	2023	A640L	2023	A666E	2023	A677K	2023	A705L	2023	A749B	1617	A844	2023

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A84M(2S)	2023	A952M(JAPAN)	2023	A1083D	2023	A2470	1617	A118284	2023	A1473597-1	2023	A6707298	2009
A84M	2023	A953	2023	A1083E	2023	A2471	2030	A119730	2023	A2006681-95	2016	A6708303	2009
A844C(JAPAN)	2023	A954	2023	A1086	2009	A2473	1123	A-120018	2030	A2057013-0004	2023	A6708850	2009
A844D(2S)	2023	A970	2023	A1087	2009	A2474	563	A-120077	563	A2057013-0701	2023	A6708861	2009
A844D(JAPAN)	2023	A973	2023	A1090	2023	A2476	1123	A-120125(PWR. RECT.)	1114	A2057013-0702	2023	A6708871	2009
A844E(2S)	2023	A978	2023	A1092	2023	A2479	2016			A2057013-0703	2023	A6708871(,25C388ATM)	2009
A844F	2023	A980	2043	A1100	2023	A2480	2016	A-120278	1617	A2092693-0724	2016		2009
A850	2023	A981	2043	A1100D	2023	A2481	1104	A-120327	2041	A2092693-0725	2016	A6708871	2009
A854	2023	A982	2043	A1100F	2023	A2485	1104	A-120417	2023	A2498512	2023	(,25C388ATMFA)	2009
A854-Q	2023	A984	2023	A1100L	2023	A2498	2016	A121467	2023	A3011112	2030	A6733280	2016
A854G	2023	A984(JAPAN)	2023	A1109	2016	A2499	1617	A1215659	2023	A3115621	1102	A6733340	2009
A854Q	2023	A984E	2023	A1115	2023	A2652-919	2035	A124047	2023	A3115690	1104	A6733560	2009
A854Q(JAPAN)	2023	A984K	2023	A1115-E	2023	A2746	2016	A124623	2016	A5010005	1122	A6734590	2009
A854QE	2023	A984KF(JAPAN)	2023	A1115-F	2023	A2798	2023	A124624	2016	A5320111	2023	A6734592	2009
A854R	2023	A987	2023	A1115E	2023	A3513	2023	A124755	2023	A5768475	1104	A6754194H	2016
A855	2023	A990	2023	A1128	2023	A3540	2023	A-125278	561	A6314340	2020	A6771373	2055
A856	2023	A991	2023	A1150	2023	A3549	2023	A125329	2016	A6314440	2009	A6823565	2020
A856A	2023	A991-01-0098	2023	A1150Y	2023	A3559	2023	A-125332	1617	A6314446	2009	A6841420	2020
A859	2023	A991-01-1225	2023	A1152	2023	A3562	2023	A126524	2023	A6314446(,25C1627-YFA)	2009	A6841440	2020
A866	2023	A991-01-1316	2016	A1153	2023	A3563	2023	A126700	2023			A6846801	2055
A866Y	2023	A991-01-1319	2023	A1164	2023	A3574	2023	A126707	2023	A6317420	2009	A6846806	2055
A866YV	2023	A991-01-3058	2023	A1170	2016	A3581	2023	A126715	2023	A6317440	2009	A6846860	2055
A868	2023	A993	2023	A1174	2023	A4086	2023	A126718	2023	A6317460	2009	A6848520	2020
A868	2023	A999	2023	A1175	2023	A4087	2023	A126719	2023	A6317460(,25C1815-GR)	2009	A6865553	2055
A875	2023	A999L	2023	A1175(JAPAN)	2023	A4126	2023	A129509	2016		2009	A7000900	1123
A876HA	2023	A1000	1114	A1175-F	2023	A4212-A	1104	A129510	2016	A6317480	2009	A7001800	1123
A876HB	2023	A1001	2043	A1175E	2023	A4212A	1114	A129511	2016	A6317480(,25C1815BL)	2009	A7001957	1123
A876HC	2023	A1002	2043	A1175F	2023	A4310	2023	A129512	2016		2009	A7109473	565
A880	2023	A1004	2023	A1175F(JAPAN)	2023	A4442	2023	A129513	2016	A6317520	2009	A7109890	561
A882	2043	A1005	2023	A1175FH	2023	A4745	2023	A129571	2016	A6317526	2009	A7110023	565
A882	2023	A1012	2027	A1175H	2023	A4789	2016	A129572	2016	A6317526(,25C1815-OFA)	2009	A7110041	565
A889	2023	A1012-Y	2027	A1175H(JAPAN)	2023	A4802-00004	2023	A129573	2016		2009	A7110055	561
A889	2023	A1012Y(JAPAN)	2027	A1175J	2023	A4815	2023	A129574	2016	A6317540	2009	A7110076	561
A891	2023	A1013	2023	A1214	2023	A4822-130-40348	2023	A129697	2023	A6317547(,25C1815-Y)	2009	A7110077	561
A901	2023	A1015-0	2023	A1238	2016	A4844	2023	A129699	2023		2009	A7110263	562
A902	2023	A1015-O	2023	A1246	2023	A4851	2016	A130139	2023		2009	A7110410	563
A903	2023	A1015-O(JAPAN)	2023	A1246R	2023	A5226-1	2023	A-132591	1143	A6317547(,25C1815-YFA)	2009	A7110411	563
A906	2023	A1015-O(KOREA)	2023	A1246S	2023	A5640R	2023	A-134166-2	563		2009	A7110412	563
A906(2S)	2023	A1015-OFA	2023	A1246S(JAPAN)	2023	A8405	2023	A190429	2023	A6317560	2009	A7110412	563
A909-1015	1123	A1015-Y	2023	A1246T	2023	A8540	2023	A489751-028	2023	A6317562	2009	A7110508	564
A909-1016	1123	A1015-YFA	2023	A1246U	2023	A8667	2023	A489751-031	2023	A6317567	2009	A7110509	564
A909-1017	1123	A1015FA	2023	A1264T	2023	A9218	1122	A610074-1	2023	A6317567(,25C1815-GRFA)	2009	A7150258	1122
A909-1018	1104	A1015G	2023	A1314	2030	A9228-3	1122	A610083-1	2023	A6317567(,25C1815GR)	2009	A7150351	1122
A909-1019	1104	A1015GK	2023	A1341	2030	A10105	1104	A610083-2	2023		2009	A7246602(,1S1553(TV))	1122
A909-27125-160	2016	A1015G(JAPAN)	2023	A1379	1617	A10113	1104	A610083-3	2023	A6317581(,25C1815-BL)	2023	A7246653(,1S1554)	1122
A916-31025-58	2016	A1015O	2023	A1380	1617	A10118	1104	A610110-1	2023		2009	A7246653(,1S1554)	1122
A921-59B	2016	A1015Y	2023	A1412-1	1617	A10164	1104	A610120-1	2023	A6317900	2055		1122
A921-62B	2016	A1015Y(JAPAN)	2023	A1418	2016	A10165	1104	A610120-2	2023	A6317901	2055	A7246700	1122
A921-63B	2016	A1015Y(KOREA)	2023	A1460	2016	A10169	1104	A631790L	2055	A6317901	2055	A7246703	1122
A921-64B	2016	A1016	2023	A1462	2016	A11744	2035	A650232E	2023	A6319300	2009	A7246711(,1S1555(TV))	1122
A921-70B	2023	A1016K	2023	A1472-19	1617	A11745	2035	A650235G	2023	A6319302	2009	A7246711(,1S1555(TV))	1122
A927	2023	A1023	2023	A1518	2016	A12594	2023	A650238A	2023	A6319302(,25C1959-Y)	2009		1122
A929	2023	A1023P	2023	A1519	2016	A-12791	2020	A650372D	2023		2023		1122
A929G	2023	A1023Q	2023	A1520	2016	A12888	2023	A650923F	2023	A6321241	2009		1122
A929H	2023	A1025D	2023	A1521	2016	A20371	1123	A650925H	2023	A6333751	2058	A7246727	1122
A930	2023	A1025E	2023	A1558-17	2023	A20372	1617	A670720K	2009	A6502380	2023	A7249601	1122
A933	2023	A1026	2023	A-1567	1617	A22008	2023	A670722D	2009	A6509120	2023	A7254000	1122
A933AQ	2023	A1026(2S)	2023	A1567	1617	A24015	1122	A6707298	2009	A6509121	2023	A7283550	1122
A933AR	2023	A1027(2S)	2023	A1567-1	1617	A24100	1617	A673351K	2009	A6509121(,25A562TM-O)	2023	A7286107	561
A933Q	2023	A1027R	2023	A1844-17	2023	A30270	2023	A673354K	2009	A6509140	2023	A7286120	561
A933Q(JAPAN)	2023	A1028	2045	A-1854-0492-1	1617	A30290	2023	A673355H	2009	A6509141(,25A562TM-YFA)	2023	A7287500	563
A933QY	2023	A1029	2023	A1867-17	2023	A36508	1123	A673355K	2009		2023	A7287513	563
A933R	2023	A1029B	2023	A1946	1104	A36539	563	A675419H	2016		2023	A7509201	1104
A933R(JAPAN)	2023	A1029C	2023	A2057A2-198	2023	A41440	2023	A701584-00	2023	A6532300	2023	A7547053	1104
A933S	2023	A1029D	2023	A2057B2-115	2016	A59625-1	2023	A701589-00	2023	A6532921	2023	A7568160	1104
A933S(JAPAN)	2023	A1030	2023	A2057B106-12	2023	A59625-2	2023	A711002	565	A6532941	2023	A7568250	1104
A937	2023	A1030B	2023	A2057B106-6	2023	A59625-3	2023	A758011	1114	A6532941(,25A950-Y)	2023	A7568300	1104
A937-1	1617	A1030C	2023	A2332	2016	A59625-4	2023	A759500	1114		2023	A7568460	1104
A937-3	1617	A1040	2023	A2410	1617	A59625-5	2023	A772738	2016		2023	A7568475	1104
A937-Q	2023	A1042	2043	A2411	1617	A59625-6	2023	A772739	2016		2023	A7568500	1102
A937R	2023	A1045	2043	A2412	1617	A59625-7	2023	A815199	2023	A6534021(,25A1015-O)	2023	A7568510	1102
A937R(JAPAN)	2023	A1046	2043	A2413	1617	A59625-8	2023	A815199-6	2023		2023	A7568700	1103
A941	2023	A1048	2023	A2418	2041	A59625-9	2023	A815211	2023	A6534020	2023	A7568719	1103
A942	2023	A1048(JAPAN)	2023	A2419	1123	A59625-10	2023	A815213	2023	A6534021	2023	A7568754	1103
A950	2023	A1048-GK	2023	A2420	1123	A59625-11	2023	A815229	2023	A6534040(,25A1015-Y)	2023	A7568754	1103
A950-0	2023	A1048-O	2023	A2422	1104	A59625-12	2023	A815247	2023		2023	A7570013-01	2023
A950-O	2023	A1048-O(JAPAN)	2023	A2423	1104	A71687-1	2023	A970246	2023	A6534045(,25A1015-Y)	2023	A7572100	1104
A950-Y	2023	A1048GR	2023	A2428	2023	A75680	1104	A970248	2023		2023	A7572200	1104
A950FA	2023	A1048GR(JAPAN)	2023	A2434	1617	A78331	2023	A970251	2023	A6534045(,25A1015-Y)	2023	A7572200	1104
A950Y	2023	A1048O	2023	A2448	2023	A94037	2023	A984193	2023		2023	A7572200	1104
A950Y(JAPAN)	2023	A1048Y	2023	A2460	1104	A95227	2023	A1471114-1	2023	A6534045(,25A1015-YFA)	2023	A7580111	1114
A950Y(KOREA)	2023	A1049	2023	A2461	1104	A95232	2023	A1473563-1	2023		2023	A7580310	1114
A952	2023	A1050	2023	A2464	2016	A112363	2041	A1473570-1	2023	A6534063	2023	A7580660	1104
A952(JAPAN)	2023	A1049TD	2023	A2465	2016	A-1133110	1122	A1473570-1	2023	A6610160	2027	A7682052	1104
A952K	2023	A1049E	2										

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A7978855	1104	AB800	1114	AH810	1114	AM161039H	2009	AP9.1A	562	AR213VIOLET	2016	AT338	2016
A7986480	1103	AB1000	1114	AH814	1114	AM161043H	2027	AP9.1B	562	AR218	2058	AT339	2030
A11159761	1122	AC038GML	1000	AH815	1114	AM161050H	2023	AP12.0A	563	AR218(RO)	2016	AT340	2016
A-11790169	1122	AC038GMR	1000	AH1005	1114	AM162005A	1104	AP12.0B	563	AR218RO	2016	AT341	2016
A20030703-0702	2023	AC03DGML	1000	AH1010	1114	AMF104	2041	AP15.0A	564	AR219	2016	AT342	2016
A23114050	2023	AC03DGMR	1000	AH1015	1114	AMF105	2041	AP15.0B	564	AR219(Y)	2016	AT343	2016
A23114051	2023	AC088GML	1000	AIE	2016	AMF115	2041	APD4.7A	565	AR219YY	2016	AT344	2016
A23114550	2023	AC108GML	1000	AJ5	1104	AMF116	2041	APD4.7B	565	AR220	2016	AT345	2016
A43023843	2041	AC108GMR	1000	AJ10	1104	AMF117	2041	APD5.1A	565	AR220(GY)	2016	AT346	2016
A43023845	2023	AC30	1114	AJ15	1104	AMF117A	2041	APD5.1B	565	AR220GREEN	2016	AT347	1617
A75779500	1114	AC50	1114	AJ20	1104	AMF118	2041	APD6.2A	561	AR220GY	2016	AT348	1617
A80052402	2041	AC50(DIODE)	1122	AJ25	1104	AMF118A	2041	APD6.2B	562	AR220YELLOW	2016	AT349	1617
A80414120	2041	AC50(RECTIFIER)	1141	AJ30	1104	AMF119	2041	APD9.1A	562	AR221	2016	AT353	1617
A80414130	2041	AC100	1114	AJ35	1104	AMF119A	2041	-APD9.1B	562	AR222	2016	AT354	1617
AA-07089	1617	AC200	1114	AJ40	1104	AMF120	2041	APD12.0A	563	AR222(BY)	2016	AT355	2016
AA50	1104	AC300	1144	AJ50	1104	AMF120A	2041	APD12.0B	563	AR222BLUE	2016	AT356	2016
AA100	1104	AC400	1144	AJ60	1104	AMF-121	2041	APD15.0A	564	AR222BY	2016	AT370	1617
AA101	1067	AC9082	2023	AK261	1123	AMF201	2041	APD15.0B	564	AR222YELLOW	2016	AT380	2030
AA102	1067	AC9083	2023	ALS-8922	1617	AMF210	2041	APD3595	1102	AR224	2016	AT381	2030
AA107	1067	AC9084	2023	AM	2030	AMF210A	2041	AQ2	2030	AR224WHITE	2016	AT382	2030
AA108	1067	AC9085	2023	AM005	1104	AM-G-5	1104	AQ2(PHILCO)	1104	AR224YELLOW	2016	AT383	2030
AA109	1067	ACDC9000-1	2023	AM010	1104	AM-G-5A	1114	AQ3	2030	AR244	2027	AT384	2030
AA111	1123	ACR83-1007	1123	AM020	1104	AM-G-5C	1114	AQ3(PHILCO)	1104	AR244	2027	AT385	2030
AA112	1123	ACR83-1008	1123	AM025	1104	AM-G-22	1104	AQ4	1617	AR306	1617	AT386	2030
AA112P	1123	ACR810-107	1123	AM030	1104	AMX3548	1740	AQ5	2030	AR306BLUE	2030	AT387	2030
AA113	1123	ACR810-108	1123	AM035	1104	AMX3582	2020	AQ6	1617	AR306ORANGE	2030	AT388	2030
AA113P	1123	AD10	1104	AM040	1104	AMX3583	2016	AR7C	1104	AR313	2016	AT400	1617
AA114	1123	AD29	1114	AM050	1104	AMX3584	1604	AR15	2041	AR343	2009	AT401	1617
AA115	1067	AD30	1122	AM060	1104	AMX3655	1802	AR16	1104	AR882	1104	AT402	1617
AA116	1123	AD50	1104	AM06200013	1122	AMX3799	2043	AR-17	2020	AS-2	1104	AT403	1617
AA116(SRC)	1067	AD100	1104	AM06200014	1104	AMX3867	2520	AR17GREY	2020	AS2	1104	AT404	1617
AA117	1123	AD100(DIODE)	1122	AM06200017	1123	AMX3868	2521	AR19	1104	AS-3	1104	AT405	1617
AA118	1123	AD110A	1122	AM06200065	1114	AMX4178	2009	AR20	1104	AS3	1104	AT406	1617
AA118P	1123	AD150(DIODE)	1122	AM3	1104	AMX4200	1712	AR21	1104	AS3A	1141	AT407	1617
AA119	1123	AD200	1104	AM13	1104	AMX4200(LM339)	1712	AR22	1104	AS3B	1143	AT408	2023
AA119P	1123	AD200(DIODE)	1122	AM23	1104	AMX4258	007	AR-22(DIO)	1104	AS3C	1143	AT409-1	2023
AA120	1123	AD411	1122	AM-33	1104	AMX4258(.741C)	007	AR22(RECTIFIER)	1104	AS3D	1144	AT410	2023
AA121	1123	AD4001	1104	AM33	1104	AMX4263	1617	AR-22(X5TR)	2020	AS4	1104	AT411-1	2023
AA123	1123	AD4002	1114	AM43	1104	AMX4330	2023	AR23	1114	AS4	1104	AT412	2023
AA130	1123	AD4003	1114	AM53	1104	AMX4331	2068	AR-23(DIO)	1114	AS-5	1104	AT413-1	2023
AA131	1123	AD4004	1114	AM62	1104	AMX4577	1771	AR-23(X5TR)	2027	AS5	1104	AT414	2023
AA132	1123	AD4005	1114	AM63	1104	AMX4661	038	AR-24	1114	AS6	1104	AT414-1	2023
AA134	1123	AD4006	1114	AM65	1104	AN-1	1104	AR24	1114	AS11	1104	AT415	2023
AA135	1123	AD4007	1114	AM66	1104	AN78M05	1770	AR24(PHILCO)	2017	AS-14	1104	AT415-1	2023
AA136	1123	ADX0214	561	AM300	1122	AN78M05LB	1770	AR24(X5TR)	2020	AS-15	1104	AT416	2023
AA137	1123	ADX1148	1104	AM300A	1122	AN78M12	1771	AR24RED	2020	AS15	1104	AT416-1	2023
AA138	1123	ADX1152	1122	AM301	1122	AN78M12(LB)	1771	AR-25	2027	ASY70-V	1617	AT417	2023
AA139	1123	ADX1364	1122	AM301A	1122	AN78M12-LB	1771	AR25(G)	2027	ASZ12	563	AT417-1	2023
AA140	1123	ADX1474	1143	AM302	1122	AN78M12LB	1771	AR27GREEN	2027	ASZ15	564	AT418	2023
AA142	1123	AE1A	1114	AM302A	1122	AN78M15	1772	AR28	2020	AT0017	2009	AT418-1	2023
AA143	1123	AE1B	1114	AM303	1122	AN78M15(LB)	1772	AR28RED	2020	AT0025	2009	AT419	2023
AA143S	1123	AE1C	1114	AM303A	1122	AN78M15LB	1772	AR-30	2020	AT0025A	2009	AT419-1	2023
AA144	1123	AE1D	1114	AM304	1122	AN1458	038	AR30	2020	AT0045	2009	AT420	1617
AA200	1104	AE1E	1114	AM304A	1122	AN1741	007	AR35	2020	AT-7	2030	AT421	1617
AA210	1123	AE1F	1114	AM305	1122	AN6352	038	AR37GREEN	2027	AT-10	2041	AT422	1617
AA218	1123	AE1G	1114	AM305A	1122	AN6552	038	AR38	2020	AT-11	2023	AT423	1617
AA300	1104	AE3A	1141	AM306	1122	AN6553	038	AR38RED	2020	AT-12	2030	AT424	1617
AA400	1104	AE3B	1143	AM306A	1122	AN6558	038	AR44	2027	AT12	2030	AT425	1617
AA500	1104	AE3C	1143	AM307	1122	AN6570	007	AR107	1617	AT-12(PHILCO)	2030	AT426	1617
AA600	1104	AE3D	1144	AM307A	1122	AN6572	038	AR108	1617	AT310	2016	AT427	1617
AA779	1123	AE10	1122	AM308	1122	AN6912	1712	AR-200	1617	AT311	2016	AT430	2023
AA800	1114	AE30	1122	AM308A	1122	AN6912N	1712	AR200	2016	AT312	2016	AT430-1	2023
AA1000	1114	AE50	1122	AM324D	1711	AN7805	1711	AR200(W)	2009	AT313	2016	AT431	2023
AA112	1123	AE100	1122	AM324N	1711	AN7812	1711	AR200W	2016	AT314	2016	AT431-1	2023
AA114	1123	AE150	1122	AM405	1104	AND104R	033	AR200WHITE	2009	AT315	2016	AT432	2023
AA115	1123	AE200	1122	AM410	1104	AND123R	026	AR-201	1617	AT316	2016	AT432-1	2023
AA118	1123	AE920	703	AM415	1104	AO4092	1104	AR201	2016	AT318	2016	AT433	2023
AA122	1123	AF699	2023	AM420	1104	AO4092A	1104	AR201(Y)	2009	AT319	2016	AT433-1	2023
AA127	1123	AF3570	2023	AM425	1104	AO4092B	1104	AR201Y	2016	AT321	2016	AT434	2023
AA130	1123	AF3590	2023	AM430	1104	AO4093	1104	AR201YELLOW	2009	AT322	2016	AT434-1	2023
AA133	1123	AF21490	2023	AM435	1104	AO4093-A	1104	AR-202	1617	AT323	2016	AT435	2023
AA146	1123	AFC3527	2009	AM440	1104	AO4093A	1104	AR202	2016	AT324	2016	AT435-1	2023
AA153	1123	AFC51170F	2023	AM445	1104	AO4166-2	564	AR202G	2016	AT325	2016	AT436	2023
AA154	1123	AFS-160-1017	1123	AM450	1104	AO4210A	1104	AR202GREEN	2009	AT326	2016	AT436-1	2023
AA159	1123	AFS-160-1020	1123	AM460	1104	AO4212-A	1104	AR203	2030	AT327	2016	AT437	2023
AA170	1123	AFS-160-1021	1104	AM620	1122	AO4212-B	1104	AR203R	2030	AT328	2016	AT437-1	2023
AA178	1123	AFS-760-1017	1123	AM620A	1122	AO4233	1104	AR204	1617	AT329	1617	AT438	2023
AA178D	1104	AFS24226	2023	AM626	1122	AO4234-2	562	AR205	1617	AT330	2016	AT438-1	2023
AB1-9	562	AFT0019M	2023	AM626A	1122	AO4716	1104	AR206	1617	AT331	2023	AT440	2030
AB50	1114	AFT052	2023	AM632	1122	AO4727	1101	AR208	1617	AT331A	2023	AT441	2030
AB100	1114	AFT1341	2023	AM632A	1122	AO4901A	1104	AR209	2016	AT332	2023	AT442	2030
AB200	1114	AFT1746	2023	AM3235	2041	AP4.7A	565	AR210	2016	AT332A	2023	AT443	2030
AB300	1114	AG30	1122	AM161011H	2009	AP4.7B	565	AR211	2016	AT333	2023	AT444	2030
AB400	1114	AG100D	1104	AM161011J	2009	AP6.0A	561	AR212	2016	AT335	1617	AT445	2030
AB500	1114	AG100G	1104	AM161015H	2023	AP6.0B	561	AR213	2016	AT335A	2023	AT446	2030
AB600	1114	AG100J	1104	AM161016H	2009	AP6.2A	561	AR213(V)	2016	AT336	1617	AT451	2023
AB760	1114	AM805	1114	AM161038H	2009	AP6.2B	561	AR213V	2016	AT337	1617	AT451-1	2023

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
AT452	2023	B1A3	1104	B3C5	1104	B5M1	1114	B-31	1104	B441-40	1173	B643S	2023
AT452-1	2023	B1A9	1104	B3C9	1104	B5M5	1114	B21	1104	B507(2S)	2027	B644	2023
AT453	2023	B1B	1104	B3D1	1104	B5M9	1114	B35C600	1104	B507E	2027	B644-Q	2023
AT453-1	2023	B1B1	1104	B3D5	1104	B6A1	1114	B41-04	1104	B508(2S)	2027	B644-R	2023
AT454	2023	B1B2	1104	B3D9	1104	B6A5	1114	B42-04	1104	B509(2S)	2027	B644-R(JAPAN)	2023
AT454-1	2023	B1B9	1104	B3D753A	561	B6A9	1114	B43-04	1104	B511(2S)	2027	B644Q	2023
AT455	2023	B1C1	1104	B3D757A	562	B6B1	1114	B-46-110	1122	B511-1(2S)	2027	B644QR	2023
AT455-1	2023	B1C5	1104	B3D759A	563	B6B5	1114	B51	1104	B511C(2S)	2027	B644R	2023
AT470	2030	B1C9	1104	B3E1	1104	B6B9	1114	B56-15	1143	B511D(2S)	2027	B644S	2023
AT471	2030	B1D	2020	B3E5	1104	B6C1	1114	B56-33	1143	B511E	2027	B654-5	1173
AT472	2030	B1D1	1104	B3E9	1104	B6C5	1114	B60C300	1104	B512(2S)	2027	B654-10	1173
AT473	2030	B1D5	1104	B3F1	1104	B6C9	1114	B-6A	2009	B512-0	2027	B654-20	1173
AT474	2030	B1D9	1104	B3F5	1104	B6D1	1114	B66X0033-00	1104	B512-O	2027	B654-30	1173
AT475	2030	B1E1	1104	B3F9	1104	B6D5	1114	B66X0041-001	1101	B512A(2S)	2027	B654-40	1173
AT476	2030	B1E5	1104	B3G1	1104	B6D9	1114	B81-004	1104	B512P	2027	B692X13	1123
AT477	2030	B1E9	1104	B3G5	1104	B6E1	1114	B172-5	1114	B513(2S)	2027	B696	2043
AT478	2030	B1F1	1104	B3G9	1104	B6E5	1114	B172-10	1114	B513A(2S)	2027	B698	2023
AT479	2030	B1F5	1104	B3H1	1114	B6E9	1114	B172-20	1114	B513P	2027	B698F	2023
AT490	1617	B1F9	1104	B3H5	1114	B6F1	1114	B172-30	1114	B513Q	2027	B699	2027
AT491	1617	B1G1	1104	B3H9	1114	B6F5	1114	B172-40	1114	B513R	2027	B699Q	2027
AT492	1617	B1G5	1104	B3M1	1114	B6F9	1114	B172-50	1114	B514(2S)	2027	B709	2023
AT493	1617	B1G9	1104	B3M5	1114	B6G1	1114	B172-60	1114	B515(2S)	2027	B709A	2023
AT494	1617	B1H	2016	B3M9	1114	B6G5	1114	B172-70	1114	B520	2043	B721	2023
AT495	1417	B1H(DIODE)	1104	B3M1	1114	B6G9	1114	B172-80	1114	B520-1	2043	B726	2023
AT520	2016	B1H(XSTR)	2016	B3M5	1114	B6M1	1114	B172-90	1114	B520-2	2043	B726R	2023
AT-1856	2041	B1M1	1114	B3M9	1114	B6H5	1114	B172-100	1114	B523	2027	B726S	2023
AT1856	2041	B1H5	1114	B-3P	1123	B6H9	1114	B200C40	1104	B524	2027	B726T	2023
AT3260	2041	B1H9	1114	B4	2016	B6K1	1114	B223-10	1114	B529	2027	B744	2023
ATC-SR-3	1114	B1J	2023	B4A1	1104	B6K5	1114	B223-30	1114	B530	2043	B744A	2023
ATC-TR-4	2030	B1K	1617	B4A5	1104	B6K9	1114	B223-40	1114	B531	2043	B744Q	2023
ATC-TR-7	2030	B1K1	1114	B4A9	1104	B6M1	1114	B223-50	1114	B531-O	2043	B744R	2023
ATC-TR-13	2030	B1K5	1114	B4B1	1104	B6M5	1114	B223-60	1114	B531-R	2043	B744S	2023
ATC-TR-15	2041	B1K9	1114	B4B5	1104	B6M9	1114	B223C18	2009	B531-Y	2043	B745	2023
ATC-TR-19	2020	B1M1	1114	B4B9	1104	B6F	2009	B250C7K45	1104	B532(2S)	2043	B745A	2023
AU2012	563	B1M5	1114	B4C1	1104	B7A1	1114	B250C75	1104	B532S	2043	B745AS	2023
AV0000105-0	1122	B1M9	1114	B4C5	1104	B7A5	1114	B250C75K4	1104	B542	2023	B745S	2023
AV5	563	B1N	1617	B4C9	1104	B7A9	1114	B250C75K5	1104	B542D	2023	B745T	2023
AV2012	563	B1U	2020	B4D1	1104	B7B1	1114	B250C75K41	1104	B555(2S)	2043	B774	2023
AV2015	564	B1W	1617	B4D5	1104	B7B5	1114	B250C75K45	1104	B555-O	2043	B774Q	2023
AW01	563	B2	2016	B4D9	1104	B7B9	1114	B250C100	1104	B555-R	2043	B774R	2023
AW01-0	561	B2A	2023	B4E1	1104	B7C1	1114	B250C100TD	1104	B555R	2043	B774S	2023
AW01-06	561	B2A1	1104	B4E5	1104	B7C5	1114	B250C125	1104	B556	2043	B774S(JAPAN)	2023
AW-01-09	562	B2A5	1104	B4E9	1104	B7C9	1114	B250C125K4	1104	B556-O	2043	B774T	2023
AW01-09	562	B2A9	1104	B4F1	1104	B7D1	1114	B250C125M2	1104	B556-R	2043	B808	2023
AW01-9	562	B2B1	1104	B4F5	1104	B7D5	1114	B250C125K4	1104	B557	2043	B808F	2023
AW01-9/CP3112030	562	B2B5	1104	B4F9	1104	B7D9	1114	B250C150	1104	B557-O	2043	B808G1	2023
AW01-9V	562	B2B9	1104	B4G1	1104	B7E1	1114	B250C150K4	1104	B557-R	2043	B856B	2027
AW01-12	563	B2C1	1104	B4G5	1104	B7E5	1114	B274(SYLVANIA)	2030	B558	2043	B856C	2027
AW01-12C	563	B2C5	1104	B4G9	1104	B7E9	1114	B285-5	1171	B558-O	2043	B1001R	081
AW01-12C	563	B2C9	1104	B4H1	1114	B7F1	1114	B285-10	1171	B558-R	2043	B1201	1104
AW01-12C	563	B2D	1617	B4H5	1114	B7F5	1114	B285-30	1173	B587-10	1122	B1202	1102
AW01-12V	563	B2D1	1104	B4H9	1114	B7F9	1114	B285-40	1173	B598	2023	B1202V	1102
AW01-15	564	B2D5	1104	B4K1	1114	B7G1	1114	B294	1104	B598E	2023	B1204	1114
AW03-05	565	B2D9	1104	B4K5	1114	B7G5	1114	B376-5	1173	B598F	2023	B-1338	1617
AW08-12	563	B2D753A	561	B4K9	1114	B7G9	1114	B376-10	1173	B601-1011	1123	B-1421	1617
AW09	562	B2D757A	562	B4M1	1114	B7H1	1114	B376-20	1173	B601-1012	1104	B-1426	2023
AW0113	563	B2D759A	563	B4M5	1114	B7H5	1114	B376-30	1173	B611	2043	B-1433	1617
AX12	563	B2E	2023	B4M9	1114	B7H9	1114	B376-40	1173	B611A	2043	B-1501U	1104
AX91770	2016	B2E1	1104	B5-31S	1067	B7K1	1114	B434(2S)	2027	B640	2023	B-1599	1122
AZ4.7	565	B2E5	1104	B5A1	1104	B7K5	1114	B434-O	2027	B641	2023	B-1666	1617
AZ5.1	565	B2E9	1104	B5A5	1104	B7K9	1114	B434-ORG	2027	B641-Q(JAPAN)	2023	B-1702	1122
AZ6.2	561	B2F1	1104	B5A9	1104	B7M1	1114	B434-R(2S)	2027	B641-QR	2023	B-1823	2020
AZ9.1	562	B2F5	1104	B5B1	1104	B7M5	1114	B434-RED	2027	B641-R	2023	B-1842	1617
AZ12	563	B2F9	1104	B5B5	1104	B7M9	1114	B434-Y(2S)	2027	B641P	2023	B-1872	1617
AZ15	564	B2G	2023	B5B9	1104	B8A5	1114	B434-YEL	2027	B641Q	2023	B-1881U	1104
AZ759	563	B2G1	1104	B5C1	1104	B9TUI	1104	B434G-O	2035	B641R	2023	B-1882U	1104
AZ759A	563	B2G5	1104	B5C5	1104	B12(DIO)	1102	B434G-R	2027	B641S	2023	B-1910	2016
AZ963	563	B2G9	1104	B5C9	1104	B12(RECT)	1102	B434G-Y	2027	B642	2023	B2090	562
AZ963A	563	B2H1	1114	B5D1	1104	B12(RECT),,	1104	B434R	2027	B642-O	2023	B2404C	1104
AZ963B	563	B2H5	1114	B5D5	1104	B12-02	1104	B435(2S)	2027	B642-Q	2023	B2404D	1104
AZ965	564	B2H9	1114	B5D9	1104	B12-02P	1102	B435-O(2S)	2027	B642-Q(JAPAN)	2023	B2406C	1104
AZ965A	564	B2K	2017	B5E	2020	B12-02R	1102	B435-O	2027	B642-R	2023	B2406D	1104
AZ965B	564	B2K1	1114	B5E1	1104	B12-1A21	1617	B435-ORG	2027	B642-R(JAPAN)	2023	B2804D	1104
AZG	2016	B2K5	1114	B5E5	1104	B24-06B	1114	B435-R(2S)	2027	B642P	2023	B3045	2020
AZY	2016	B2K9	1114	B5E9	1104	B24-06D	1114	B435-RED	2027	B642Q	2023	B3046	2020
B004B	1171	B2M1	1114	B5F1	1104	B-2B	1123	B435-Y(2S)	2027	B642R	2023	B3466	2020
B004E	1173	B2M5	1114	B5F5	1104	B-30	1123	B435-YEL	2027	B642S	2023	B3531	2017
B01-02	1104	B2M9	1114	B5F9	1104	B30	1123	B435G-O	2027	B643	2023	B3533	2017
B01-2	1122	B2Z	2016	B5G1	1104	B30B250KP	1173	B435G-R	2027	B643-O	2023	B3537	2017
B090	562	B3	2016	B5G5	1104	B30C250	1104	B435G-Y	2027	B643-Q	2023	B3538	2017
B0102	1102	B3A1	1104	B5G9	1104	B30C250-1	1104	B435O	2027	B643-Q(JAPAN)	2023	B3539	2020
B0102V	1102	B3A5	1104	B5H1	1114	B39C350-1	1104	B435R	2027	B643-R	2023	B3540	2017
B0319200	705	B3A9	1104	B5H5	1114	B30C500	1104	B435RY	2027	B643-R(JAPAN)	2023	B3541	2017
B0350500	038	B3B1	1104	B5H9	1114	B30C600	1104	B435Y	2027	B643P	2023	B3542	2017
B0350602	038	B3B5	1104	B5K1	1114	B30C600CB	1104	B442-5	1171	B643Q	2023	B3543	2020
B0470130	2413	B3B9	1104	B5K5	1114	B30C1000	1171	B442-10	1171	B643QRS	2023	B3544	2020
B1A1	1104	B3C1	1104	B5K9	1114	B-30P	1123	B442-30	1173	B643R	2023	B3547	2020

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B3549	2020	B170001-Y	2041	BA132TA	1114	BAW76	1104	BC110	1617	BC154	2023	BC182P	2009
B3550	2020	B170001BLK	2041	BA132VA	1114	BAW99	1114	BC111	2016	BC155	2016	BC183	2009
B3551	2020	B170001BRN	2041	BA133F	1114	BAX12	1104	BC112	2016	BC155A	2016	BC183A	2009
B3570	2017	B170002	2041	BA136	1122	BAX-13	1122	BC113	1617	BC155B	2009	BC183AP	2009
B3576	2017	B170002-BLK	2041	BA136A	1141	BAX13	1141	BC114	1617	BC155C	2016	BC183B	2009
B3577	2020	B170002-BRN	2041	BA-142-01	1104	BAX-16	1122	BC114TR	1617	BC156	2016	BC183BP	2009
B3578	2020	B170002-O	2041	BA142-01	1104	BAX16	1122	BC115	1617	BC156A	2016	BC183K	2016
B3580	2020	B170002-ORG	2041	BA147	1122	BAX18	1104	BC116	2023	BC156B	2009	BC183KA	2016
B3584	2020	B170002-R	2041	BA153	1104	BAX18A	1104	BC116A	2023	BC156C	2016	BC183KB	1617
B3585	2020	B170002-RED	2041	BA154	1122	BAX28	1122	BC117	2030	BC157	2023	BC183KC	1617
B3586	2020	B170002-Y	2041	BA164	1101	BAX30	1122	BC118	1617	BC157A	2023	BC183L	2016
B3568	2020	B170003	2041	BA166	1122	BAX74	1122	BC-119	2030	BC157B	2023	BC183LA	2009
B3589	2020	B170003-B	2055	BA167	1122	BAX87	1122	BC119	2030	BC158	2023	BC183LB	2009
B3606	2017	B170003-O	2041	BA168	1122	BAX88TF11	1122	BC120	2030	BC158-1	2023	BC183P	2009
B3607	2017	B170003-R	2041	BA170	1122	BAX89A	1122	BC121	2016	BC158A	2023	BC184	2009
B3608	2017	B170003-Y	2041	BA172	1101	BAX91C/TF102	1122	BC122	2016	BC158A-1	2023	BC184B	2009
B3609	2017	B170004	2041	BA174	1122	BAX95TF600	1122	BC123	2016	BC158B	2023	BC184BP	2009
B3610	2017	B170004-B	2041	BA177	1122	BAY15	1114	BC125	1617	BC158C	2023	BC184C	2009
B3611	2017	B170004-R	2041	BA178	1141	BAY16	1114	BC125A	1617	BC159	2023	BC184CP	2009
B3612	2017	B170004-Y	2041	BA180	1101	BAY17	1122	BC125B	1617	BC159A	2023	BC184K	1617
B3613	2017	B170005	2041	BA181	1122	BAY18	1122	BC126	2023	BC159B	2023	BC184KB	1617
B3614	2017	B170005-B	2041	BA187	1122	BAY19	1122	BC127	2016	BC159C	2023	BC184KC	1617
B3746	2030	B170005-O	2041	BA200	1122	BAY20	1122	BC128	2016	BC167	2009	BC184L	2016
B3747	2017	B170005-R	2041	BA201	1122	BAY21	1103	BC129	1617	BC-167-B	2009	BC184P	2009
B3748	2017	B170005-Y	2041	BA202	1122	BAY23	1114	BC129A	2009	BC167A	2009	BC185	1617
B3750	2017	B170006	2041	BA203	1122	BAY31	1122	BC129B	2009	BC167B	2009	BC186	2023
B4302	1104	B170006-B	2055	BA208	2055	BAY36	1122	BC130	1617	BC168	2009	BC187	2023
B4304	1104	B170007	2041	BA216	1122	BAY41	1122	BC130A	2009	BC168A	2009	BC188	2016
B4304V	1104	B170009	2041	BA217	1101	BAY44	1101	BC130B	2009	BC168B	2009	BC189	2016
B4402	1104	B170010	2041	BA218	1101	BAY45	1102	BC131	1617	BC168C	2009	BC190	2009
B4404	1104	B170011	2041	BA219	1122	BAY46	1103	BC131B	2009	BC169	2009	BC190B	1617
B4406	1104	B170012	2041	BA243A	1122	BAY52	1122	BC132	1617	BC-169-C	2009	BC192	2023
B5000	2020	B170013	2041	BA243S	1122	BAY64	1104	BC132A	2009	BC169A	2009	BC194	2016
B5000-GRN	2020	B170014	2041	BA283	1122	BAY67	1122	BC134	1617	BC-169B	2009	BC194B	2016
B5000-RED	2020	B170015	2041	BA316	1122	BAY68	1122	BC135	1617	BC169B	2009	BC195	2016
B5000-YEL	2020	B170016	2041	BA317	1122	BAY72	1122	BC135A	2016	BC-169C	2009	BC195CD	2016
B5001	2017	B170018	2041	BA517	1122	BAY73	1122	BC136	1617	BC169C	2009	BC196	2023
B5001-GRN	2020	B170019	2041	BA751AA	1104	BAY86	1104	BC137	2023	BC170	2016	BC196A	2023
B5001-ORG	2020	B170020	2041	BA751BA	1104	BAY87	1104	BC-138	2030	BC170A	2016	BC196B	2023
B5001-RED	2020	B170021	2041	BA751CA	1104	BAY90	1114	BC138	2030	BC170B	2016	BC196V1	2023
B5001-YEL	2020	B170022	2041	BA751DA	1104	BB1A	1104	BC-140	2030	BC170C	2016	BC197	1617
B5002	2020	B170024	2041	BA751EA	1104	BB-2	1104	BC140	2030	BC171	2009	BC197A	1617
B5020	2041	B170025	2041	BA751FA	1104	BB2A184	1104	BC140-6	2030	BC171A	2009	BC197B	1617
B502	2020	B1045494P1	1101	BA751GA	1104	BB31	1104	BC140-10	2030	BC171B	2009	BC198	1617
B5022	2020	B7978850	1104	BA751HA	1104	BB3K	1104	BC140-16	2030	BC172	2009	BC198A	2009
B5031	2020	BA-07001	1123	BA751KA	1104	BB-4	1104	BC140-25	2030	BC172A	2009	BC198B	2016
B5032	2020	BA-07007	1104	BA751MA	1104	BB4	1104	BC-140A	2030	BC172B	2009	BC198C	2009
B-6001	2035	BA5A5	1101	BA751PA	1114	BB4-FC	1104	BC-140B	2030	BC172C	2009	BC199	1617
B-6002	564	BA67	1617	BA751RA	1114	BB4T	1104	BC-140C	2030	BC173	2016	BC199B	2016
B9426	2016	BA71	1617	BA751TA	1114	BB-6	1104	BC-140C	2030	BC173B	2030	BC199C	2009
B17307	2041	BA100	1104	BA751VA	1114	BB6	1104	BC-140D	2030	BC173A	2016	BC200	2023
B3654	1104	BA102AA	1104	BA4558	038	BB-8	1104	BC140D	2030	BC173B	2016	BC200G	2023
B-75583-02	1617	BA102BA	1104	BA4558DX	038	BB10	1104	BC-141	2030	BC173C	2016	BC200R	2023
B8104	1141	BA102CA	1104	BAC-SHIMI	1122	BB71	1617	BC141	2030	BC174	2030	BC200Y	2023
B143000	2017	BA102DA	1104	BACSHIMI	1122	BB100	1101	BC141-06	2030	BC174A	2030	BC201	2023
B143001	2017	BA102EA	1104	BACSIM1	1122	BB107	1104	BC141-6	2030	BC174B	2030	BC202	2023
B143003	2017	BA102FA	1104	BAN62	1122	BB-109	1104	BC141-10	2030	BC175	2009	BC203	2023
B143004	2020	BA102GA	1104	BA511	1104	BB117	1104	BC141-16	2030	BC177	2023	BC204	2023
B143009	2017	BA102HA	1104	BAV17	1122	BB127	1104	BC141-25	2030	BC177A	2023	BC204-6	2023
B143010	2017	BA102KA	1104	BAV18	1122	BB1A	1104	BC-142	2030	BC177B	2023	BC204A	2023
B143011	2020	BA102MA	1104	BAV19	1122	BBY31	1122	BC142	2030	BC177V	2023	BC204B	2023
B143012	2020	BA102PA	1114	BAV20	1122	BBY40	1122	BC142-10	2030	BC177V1	2023	BC204V	2023
B143015	2017	BA102RA	1114	BAV21	1122	BC17LB-1	2023	BC142-16	2030	BC178	2023	BC204V1	2023
B143016	2017	BA102TA	1114	BAV70	1104	BC45B	2009	BC144	2030	BC178A	2023	BC205	2023
B143018	2020	BA102VA	1114	BAV74	1101	BC-71	1617	BC146	2016	BC178B	2023	BC205A	2023
B143019	2020	BA104	1104	BAW10TF20	1122	BC71	1617	BC146G	2009	BC178C	2023	BC205B	2023
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B143027	2020	BA119	1104	BAW16	1122	BC107A	1617	BC147A	1617	BC178V1	2023	BC205V1	2023
B170000	2041	BA122	1122	BAW17	1122	BC107AP	2009	BC147B	1617	BC179	2023	BC206	2023
B170000-B	2055	BA127	1104	BAW18	1122	BC107B	1617	BC148	1617	BC179A	2023	BC206A	2023
B170000-ORG	2041	BA128	1104	BAW24	1122	BC107BP	2009	BC-148A	1617	BC179B	2023	BC206B	2023
B170000-ORN	2041	BA129	1102	BAW25	1122	BC108	1617	BC148A	1617	BC179C	2023	BC206C	2023
B170000-R	2041	BA130	1101	BAW28	1104	BC108A	1617	BC-148B	1617	BC180	1617	BC-207	1104
B170000-RED	2041	BA132AA	1114	BAW32A	1122	BC108AP	2009	BC148B	1617	BC180B	1617	BC207	2009
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B170001-BLK	2041	BA132GA	1114	BAW53	1122	BC109	1617	BC149C	1617	BC182BP	2009	BC208C	2009
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B170001-R	2041	BA132PA	1114	BAW63B	1122	BC109C	1617	BC152	2009	BC182L	2009	BC210	2009
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BC211A	2030	BC239A	2016	BC295	2016	BC337BP	2009	BC432	2023	BC490B18	2023	BC583	2009
BC212	2023	BC239B	2016	BC297	2023	BC337CP	2009	BC442	2016	BC490L	2023	BC583A	2009
BC212A	2023	BC239B5	2009	BC297-7	2023	BC338	2009	BC445	2023	BC490L5	2023	BC583B	2009
BC212AP	2023	BC239B18	2009	BC298	2023	BC338-5	2009	BC445-5	2023	BC490L18	2023	BC639	2030
BC212B	2023	BC239C	2009	BC301	2030	BC338-16	2009	BC445-18	2023	BC507A	1617	BC682	2030
BC212BP	2023	BC250	2023	BC301-4	2030	BC338-25	2009	BC446	2023	BC507B	1617	BC737	2016
BC212K	2023	BC250A	2023	BC301-5	2030	BC338-40	2009	BC446-5	2023	BC508A	1617	BC738	2016
BC212KA	2023	BC250B	2023	BC301-6	2030	BC340-6	2030	BC446-18	2023	BC508B	1617	BC-1072	1617
BC212KB	2023	BC250C	2023	BC302-4	2030	BC340-10	2030	BC447	2023	BC508C	1617	BC-1082	1617
BC212L	2023	BC251	2023	BC302-5	2030	BC340-16	2030	BC447-5	2023	BC509B	1617	BC-1086	1617
BC212LA	2023	BC251A	2023	BC302-6	2030	BC341-06	2030	BC447-18	2023	BC509C	1617	BC-1096	1617
BC212LB	2023	BC251B	2023	BC-307	1104	BC341-6	2030	BC448-5	2023	BC510B	1617	BC1096	1617
BC212P	2023	BC251C	2023	BC307	2023	BC341-10	2030	BC449-5	2023	BC510C	2016	BC1478	1617
BC212V1	2023	BC252	2023	BC307(ALGG)	2023	BC350	2023	BC450-18	2023	BC512	2023	BC-1690	1617
BC212VI	2023	BC252A	2023	BC307(PHIN)	2023	BC350A	2023	BC452	2009	BC512A	2023	BC6500	2016
BC213	2023	BC252B	2023	BC307-5	2023	BC350B	2023	BC455	2009	BC513	2023	BCM1002-2	2016
BC213A	2023	BC252C	2023	BC307-18	2023	BC350L	2023	BC456	2058	BC513A	2023	BCW31	2016
BC213AP	2023	BC253	2023	BC307A	2023	BC351	2023	BC478	2023	BC514A	2023	BCW31R	2016
BC213B	2023	BC253A	2023	BC307B	2023	BC351A	2023	BC478A	2023	BC535	2030	BCW32	2016
BC213BP	2023	BC253B	2023	BC307C	2023	BC351B	2023	BC478B	2023	BC537	2030	BCW32R	2016
BC213K	2023	BC253C	2023	BC307V1	2023	BC351L	2023	BC479	2023	BC538	2030	BCW34	1617
BC213KA	2023	BC254	2030	BC307VI	2023	BC352	2023	BC479B	2023	BC546	2016	BCW35	2023
BC213KB	2023	BC255	2030	BC307V15	2023	BC352A	2023	BC485	2023	BC546A	2016	BCW36	1617
BC213KC	2023	BC256	2023	BC307VII8	2023	BC352B	2023	BC485-5	2023	BC546AP	2009	BCW37	2023
BC213L	2023	BC256A	2023	BC308	2023	BC352L	2023	BC485-18	2023	BC546B	2016	BCW44	2030
BC213LA	2023	BC256B	2023	BC308(ALGG)	2023	BC377	1617	BC485A	2023	BC546BP	2009	BCW45	2023
BC213LB	2023	BC257	2023	BC308-5	2023	BC378	1617	BC485A5	2023	BC546VIP	2009	BCW46	2030
BC213LC	2023	BC257VI	2023	BC308-18	2023	BC381	2023	BC485A18	2023	BC547	2009	BCW46A	2009
BC213P	2023	BC258	2023	BC308A	2023	BC382	1617	BC485B	2023	BC547A	2009	BCW46B	2009
BC214	2023	BC258C	2023	BC308B	2023	BC382B	2009	BC485B5	2023	BC547AP	2009	BCW47	2030
BC214A	2023	BC258VI	2023	BC308C	2023	BC382C	2009	BC485B18	2023	BC547B	2009	BCW47A	2009
BC214B	2023	BC259	2023	BC308V1	2023	BC383	1617	BC485L	2023	BC547BP	2009	BCW47B	2009
BC214BP	2023	BC260	2023	BC308VI5	2023	BC383B	2009	BC485L5	2023	BC547C	2009	BCW48	2030
BC214CP	2023	BC260A	2023	BC308VII8	2023	BC383C	1617	BC485L18	2023	BC547VI	2009	BCW48A	2009
BC214K	2023	BC260B	2023	BC309	2023	BC384	1617	BC486	2023	BC547VIP	2009	BCW48B	2009
BC214KA	2023	BC260C	2023	BC309(ALGG)	2023	BC384B	2009	BC486-5	2023	BC548	2009	BCW48C	2009
BC214KB	2023	BC-261	2023	BC309(SIEG)	2023	BC384C	2016	BC486-18	2023	BC548A	2016	BCW49	2030
BC214KC	2023	BC261	2023	BC309-5	2023	BC385A	2016	BC486A	2023	BC548AP	2009	BCW49B	2009
BC214L	2023	BC261A	2023	BC309-18	2023	BC385B	2016	BC486A5	2023	BC548B	2009	BCW49C	2009
BC214LA	2023	BC261B	2023	BC309A	2023	BC386A	2016	BC486A18	2023	BC548BC	2009	BCW56	2023
BC214LB	2023	BC261C	2023	BC309B	2023	BC386B	2016	BC486B	2023	BC548BP	2009	BCW56A	2023
BC214LC	2023	BC262	2023	BC309C	2023	BC400	2023	BC486B5	2023	BC548C	2009	BCW57	2023
BC214P	2023	BC262A	2023	BC310	2030	BC404	2023	BC486L	2023	BC548CP	2016	BCW57A	2023
BC216	2030	BC262B	2023	BC312	2030	BC404VI	2023	BC486L5	2023	BC548VI	2009	BCW58	2023
BC216A	2030	BC262C	2023	BC315	2023	BC405	2023	BC487	2023	BC548VIP	2009	BCW58A	2023
BC216B	2030	BC263	2023	BC317	2009	BC405A	2023	BC487-5	2023	BC549	2009	BCW58B	2023
BC220	1617	BC263A	2023	BC317A	2009	BC405B	2023	BC487-18	2023	BC549B	2009	BCW59	2023
BC221	2023	BC263B	2023	BC317B	2009	BC406B	2023	BC487A	2023	BC549BP	2009	BCW59A	2023
BC222	1617	BC263C	2023	BC318	2009	BC407	1617	BC487A5	2023	BC549C	2016	BCW59B	2023
BC223	2009	BC264A	2023	BC318A	2009	BC407A	1617	BC487A18	2023	BC549CP	2016	BCW60A	1617
BC223A	2009	BC264C	2035	BC318B	2009	BC407B	1617	BC487B	2023	BC550	2009	BCW60AA	1617
BC223B	2009	BC266	2023	BC318C	2009	BC408	1617	BC487B5	2023	BC550B	2009	BCW60AB	2009
BC224	2023	BC266A	2023	BC319	2009	BC408A	2016	BC487B18	2023	BC550BP	2009	BCW60AC	2009
BC225	2023	BC266B	2023	BC319B	2009	BC408B	2016	BC487L	2023	BC550C	2016	BCW60B	2009
BC231A	2023	BC267	1617	BC319C	2009	BC408C	2016	BC487L5	2023	BC550CP	2016	BCW60C	2009
BC231B	2023	BC268	1617	BC320	2023	BC409	1617	BC487L18	2023	BC556	2023	BCW61	2023
BC232A	2009	BC269	1617	BC320A	2023	BC409B	2009	BC488	2023	BC556A	2023	BCW61BC	2023
BC232B	2009	BC270	1617	BC321	2023	BC409C	2009	BC488-5	2023	BC556B	2023	BCW61BD	2023
BC232M	2030	BC271	2016	BC321A	2023	BC413	2009	BC488-18	2023	BC556VI	2023	BCW61C	2023
BC233A	1617	BC280	1617	BC321B	2023	BC413B	2009	BC488A	2023	BC557	2023	BCW61D	2023
BC237	2009	BC280A	1617	BC322	2023	BC413BP	2009	BC488A5	2023	BC557A	2023	BCW62	2023
BC237(PHIN)	2016	BC280B	1617	BC322B	2023	BC413C	2009	BC488A18	2023	BC557B	2023	BCW62A	2023
BC237-18	2009	BC280C	1617	BC322C	2023	BC414	1617	BC488B	2023	BC557VI	2023	BCW63	2023
BC237A	2009	BC281	2023	BC324	2030	BC414B	2009	BC488B5	2023	BC558	2023	BCW63A	2023
BC237A5	2009	BC281A	2023	BC325	2023	BC414BP	2009	BC488B18	2023	BC558A	2023	BCW64A	2023
BC237A18	2009	BC281B	2023	BC325A	2023	BC414C	2009	BC488L	2023	BC558B	2023	BCW65EA	2009
BC237B	2009	BC281C	2023	BC326	2023	BC415-6	2023	BC488L5	2023	BC558VI	2023	BCW65EB	2009
BC237B5	2009	BC282	2009	BC326A	2023	BC415A	2023	BC488L18	2023	BC559	2023	BCW69	2023
BC237B18	2009	BC283	2023	BC327	2023	BC415AP	2023	BC489	2023	BC559A	2023	BCW71	2016
BC238	2009	BC284	2009	BC327(25)	2023	BC415B	2023	BC489-5	2023	BC559B	2023	BCW71R	2016
BC238(PHIN)	2016	BC284A	2009	BC327-5	2023	BC415BP	2023	BC489-18	2023	BC560	2023	BCW72	2016
BC238-5	2009	BC284B	2009	BC327-18	2023	BC415C	2023	BC489A	2023	BC560A	2023	BCW72R	2016
BC238-16	2023	BC285	1617	BC327AP	2023	BC416-6	2023	BC489A5	2023	BC560C	2023	BCW73	1617
BC238-18	2009	BC286	2030	BC327CP	2023	BC416A	2023	BC489A18	2023	BC560PA	2023	BCW73-25	1617
BC238A	2009	BC288	2030	BC328	2023	BC416AP	2023	BC489B	2023	BC560PAK	2023	BCW74	1617
BC238A5	2009	BC289	1617	BC328-5	2023	BC416B	2023	BC489B5	2023	BC560PAL	2023	BCW74-25	1617
BC238A18	2009	BC289A	1617	BC328-18	2023	BC416BP	2023	BC489B18	2023	BC560PAM	2023	BCW75-25	2023
BC238B	2009	BC289B	1617	BC328AP	2023	BC416C	2023	BC489L	2023	BC560PB	2023	BCW77-25	2030
BC238B5	2009	BC290	1617	BC328BP	2023	BC416CP	2023	BC489L5	2023	BC560PBK	2023	BCW78	2030
BC238B18	2009	BC290B	1617	BC328C	2023	BC417	2023	BC489L18	2023	BC560PBL	2023	BCW78-25	2030
BC238C	2016	BC290C	1617	BC328CP	2023	BC418	2023	BC490	2023	BC560PBM	2023	BCW79-10	2023
BC238C5	2009	BC291	2023	BC337-5	2009	BC418A	2023	BC490-5	2023	BC560PC	2023	BCW79-16	2023
BC238C18	2009	BC291A	2023	BC337-16	2009	BC419	2023	BC490-18	2023	BC560PCM	2023	BCW80-10	2023
BC239	2009	BC291D	2023	BC337-18	2009	BC419A	2023	BC490A	2023	BC560PCM	2023	BCW80-16	2023
BC239(PHIN)	2016	BC292	2023	BC337-25	2009	BC429	2030	BC490A5	2023	BC582	2009	BCW83	1617
BC239-5	2009	BC292A	2023	BC337-40	2016	BC431	2030	BC490A18	2023	BC582A	2009	BCW84B	2009
BC239-18	2009	BC292D	2023	BC337AP	2009	BC431B	2009	BC490B5	2023	BC582B	2009	BCW86	2023

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BCW87	2016	BCY58VII	1617	BD130	2041	BDS85	2020	BDY82	2027	BF233-4	2016	BF333C	2016
BCW88	2023	BCY58VIII	1617	BD-131	2020	BD587	2020	BDY83	2027	BF233-5	2016	BF333D	2016
BCW92KA	2023	BCY59	1617	BD135G	2017	BD589	2020	BDY93	2020	BF233-6	2058	BF334	2016
BCW92KB	2023	BCY59-7	1617	BD137G	2017	BD591	2020	BDY93/01	2020	BF234	2058	BF335	2016
BCW93A	2023	BCY59-8	1617	BD139G	2017	BD596	2020	BE-66	2027	BF235	2016	BF340	2023
BCW93B	2023	BCY59-9	1617	BD141	2041	BD633	2020	BE71	2030	BF236	2016	BF342	2023
BCW93KA	2023	BCY59A	1617	BD142	2041	BD635	2020	BE107	2020	BF237	2016	BF343	2023
BCW93KB	2023	BCY59B	1617	BD142	2020	BD643	2020	BE117	2068	BF238	2009	BF344	2016
BCW94	2009	BCY59C	1617	BD163	2020	BD645	2020	BE127	2068	BF240	2058	BF345	2016
BCW94A	2009	BCY59D	1617	BD181	2041	BD705	2020	BE173	2020	BF240B	2058	BF348	2035
BCW94B	2009	BCY59IX	1617	BD182	2041	BD707	2020	BF71	2020	BF241	2058	BF357	2016
BCW94C	2009	BCY59VII	1617	BD201	2020	BD709	2020	BF115	2020	BF241C	2058	BF362	2016
BCW94KA	2009	BCY59VIII	1617	BD203	2020	BD711	2020	BF121	2020	BF241D	2058	BF363	2016
BCW94KB	2009	BCY65	2030	BD220	2020	BD733	2020	BF123	2020	BF243	2023	BF364	2058
BCW94KC	2009	BCY65IX	1617	BD221	2020	BD735	2020	BF125	2020	BF244	2035	BF365	2058
BCW95	2030	BCY65VII	1617	BD222	2020	BD737	2020	BF127	2020	BF244A	2035	BF366	2030
BCW95A	2009	BCY65VIII	1617	BD223	2027	BD801	2020	BF155	2020	BF244B	2035	BF367	2058
BCW95B	2009	BCY66	2030	BD224	2027	BD833	2017	BF161	2016	BF244C	2035	BF368	2009
BCW95KA	2009	BCY69	1617	BD225	2027	BD835	2017	BF162	2016	BF245	2035	BF369	2009
BCW95KB	2009	BCY70	2023	BD233G	2020	BD837	2017	BF163	2016	BF245A	2035	BF379	2023
BCW96	2023	BCY71	2023	BD235G	2020	BD905	2020	BF164	2016	BF245B	2035	BF384	2016
BCW96A	2023	BCY71A	2023	BD237G	2020	BD907	2020	BF165	2016	BF245C	2035	BF385	2016
BCW96B	2023	BCY72	2023	BD238	2055	BD909	2020	BF166	2020	BF246	2035	BF387	2016
BCW96KA	2023	BCY72A	2023	BD239	2020	BD911	2020	BF167	2016	BF247	2035	BF414	2023
BCW96KB	2023	BCY76	1617	BD239A	2020	BD3595F	1102	BF168	2016	BF248	2016	BF440	2023
BCW97	2023	BCY77A	2023	BD240	2027	BD3595T	1102	BF169	2016	BF249	2016	BF441	2023
BCW97A	2023	BCY77B	2023	BD240A	2027	BD0A	1171	BF173	2016	BF250	2016	BF450	2023
BCW97B	2023	BCY77C	2023	BD241	2020	BDT61	2020	BF173A	2016	BF251	2016	BF451	2023
BCW97KA	2023	BCY77VII	2023	BD241A	2020	BDT61A	2020	BF175	2068	BF252	2016	BF494	2058
BCW97KB	2023	BCY77VIII	2023	BD241B	2020	BDT61B	2020	BF176	2068	BF253	2016	BF495	2058
BCW98A	2016	BCY78	2023	BD241C	2020	BDT91	2020	BF177	2020	BF254	2030	BF497	2016
BCW98B	2016	BCY79	2023	BD242	2027	BDT93	2020	BF-180	2009	BF254(ALGG)	2009	BF505	2058
BCW98C	2016	BCY79VII	2023	BD242A	2020	BDT95	2020	BF180	2020	BF254(PHIN)	2009	BF506	2023
BCW98D	2016	BCY84A	1617	BD242B	2027	BDW23	2068	BF181	2068	BF254(SIEG)	2058	BF507	2058
BCX17	2023	BCY85	2030	BD243	2020	BDW23A	2068	BF182	2016	BF254B	2016	BF516	2016
BCX17R	2023	BCY86	2030	BD243B	2020	BDW23B	2068	BF183	2016	BF-255	2009	BF540	2023
BCX19	2009	BCY87	2016	BD244	2027	BDX10	2041	BF183A	1617	BF255	2058	BF541	2023
BCX19R	2009	BCY88	2016	BD244A	2027	BDX11	2041	BF184	2016	BF255(ALGG)	2009	BF542	2023
BCX20	2009	BCY89	2016	BD244B	2027	BDX18	2043	BF185	2016	BF255(PHIN)	2009	BF594	2058
BCX20R	2009	BCY90	2023	BD271	2020	BDX18N	2043	BF187	2016	BF255(SIEG)	2058	BF595	2058
BCX26	2023	BCY90B	2023	BD272	2027	BDX24	2041	BF188	2016	BF255C	2016	BF596	2009
BCX31	2030	BCY91	2023	BD273	2020	BDX25	2020	BF189	2016	BF255D	2016	BF597	2016
BCX35	2023	BCY91B	2023	BD275	2020	BDX27	2027	BF194	2058	BF256	2035	BF609	2016
BCX36	2023	BCY92	2023	BD278	2020	BDX27-6	2027	BF194A	2016	BF256A	2035	BF704	2023
BCX45	2023	BCY92B	2023	BD278A	2020	BDX27-10	2027	BF194B	2016	BF256B	2035	BF712	2023
BCX46	2023	BCY93	2023	BD278AE	2020	BDX28	2027	BF195	2058	BF256C	2035	BF713	2023
BCX50	2023	BCY93B	2023	BD278E	2020	BDX28-6	2027	BF195C	2016	BF260	2016	BF719	2030
BCX58	2009	BCY94	2023	BD291	2020	BDX28-10	2027	BF195D	2016	BF261	2016	BF721	2030
BCX58VII	2009	BCY94B	2023	BD293	2020	BDX29	2020	BF196	2058	BF262	2016	BF718	2030
BCX58VIII	2009	BCY95	2023	BD311	2041	BDX29-6	2020	BF197	2016	BF263	2016	BF717	2030
BCX59	2009	BCY95B	2023	BD312	2043	BDX29-10	2020	BF-198	2058	BF264	2016	BF719	2030
BCX70AG	2009	BCY98	2023	BD313	2041	BDX30	2020	BF198	2058	BF270	2016	BF730	2030
BCX70AH	2009	BCY98B	2023	BD-433	2020	BDX30-6	2020	BF199	2058	BF271	2016	BF721	2030
BCX70AJ	2009	BCY443	2030	BD433	2020	BDX30-10	2020	BF200	2016	BF272	2023	BF725	2016
BCX71BJ	2023	BCY501	1617	BD433A	2020	BDX70	2020	BF-200(PENNCREST)	2020	BF273	2023	BF726	1617
BCX71BK	2023	BCY511	1617	BD434	2027	BDX71	2020		2016	BF273C	2016	BF728	2016
BCY10	2023	BCY771X	2023	BD434A	2027	BDX72	2020	BF200(ZENITH)	2016	BF273D	2016	BF735A	1617
BCY11	2023	BCZ10	2023	BD435	2020	BDX73	2020	BF206	2016	BF274	2016	BF736	2030
BCY12	2023	BCZ11	2023	BD435A	2020	BDX74	2020	BF207	2016	BF274B	2016	BF740T05	2030
BCY13	1617	BCZ12	2023	BD436	2020	BDX75	2020	BF208	2016	BF274C	2016	BF740T05	2030
BCY15	1617	BCZ13	2023	BD436A	2027	BDX77	2020	BF209	2016	BF279	2016	BF741T05	2030
BCY16	1617	BCZ14	2023	BD437	2020	BDX91	2041	BF212	2016	BF287	2016	BF741T05	2030
BCY35	2023	BD0A	1104	BD438	2027	BDX92	2043	BF213	2016	BF288	2016	BF741T05	2030
BCY36	1617	BD1	1123	BD439	2020	BDX93	2041	BF-214	1617	BF290	2016	BF741T05	2030
BCY37	2023	BD-1A	1104	BD440	2027	BDX94	2043	BF214	2016	BF291	1617	BF741T05	2030
BCY38	2023	BD2	1123	BD441	2020	BDX95	2041	BF-215	1617	BF291A	1617	BF741T05	2030
BCY39	2023	BD3	1123	BD457	1104	BDY10	2041	BF215	2016	BF291B	1617	BF511	2016
BCY40	2023	BD3A-1B4	1171	BD457F	1104	BDY11	2041	BF216	2016	BF293	1617	BF513E	2016
BCY42	1617	BD-3A1B4	1171	BD457T	1104	BDY12	2020	BF217	2016	BF293A	1617	BF513F	2016
BCY43	1617	BD4	1123	BD458F	1102	BDY13	2020	BF218	2016	BF293D	1617	BF513G	2016
BCY46	2030	BD5	1123	BD458T	1102	BDY17	2041	BF219	2016	BF302	2016	BF514E	2016
BCY47	2030	BD6	1123	BD483B	1104	BDY20	2041	BF220	2016	BF304	2016	BF514F	2016
BCY48	2030	BD7	1123	BD483BF	1104	BDY23	2041	BF222	2016	BF306	2016	BF514G	2016
BCY49	2030	BD71	2016	BD483BT	1104	BDY23A	2041	BF223	2016	BF308	2058	BF515E	2016
BCY50	1617	BD106	2020	BD533	2020	BDY23C	2041	BF224	2058	BF310	2058	BF515F	2016
BCY51	1617	BD106A	2020	BD534	2027	BDY23C	2041	BF224J	1617	BF311	2058	BF515G	2016
BCY511	1617	BD106B	2020	BD534L	2027	BDY34	2020	BF225	2058	BF314	2058	BF516E	2016
BCY54	2023	BD-107	1104	BD535	2020	BDY38	2020	BF225J	1617	BF321A	1617	BF516F	2016
BCY55	2016	BD107	2017	BD536	2027	BDY39	2020	BF-226	1617	BF321B	1617	BF516G	2016
BCY56	1617	BD107A	2020	BD537	2020	BDY53	2041	BF226	2016	BF321C	1617	BF517R	2016
BCY57	1617	BD107B	2020	BD544	2020	BDY54	2041	BF227	2016	BF321D	1617	BF518	2016
BCY58	2023	BD109	2020	BD544A	2020	BDY56	2041	BF229	2016	BF321E	1617	BF518A	2016
BCY58A	1617	BD109-6	2020	BD544B	2020	BDY63	2041	BF230	2016	BF321F	1617	BF518B	2016
BCY58B	1617	BD111	2041	BD544C	2020	BDY69	2043	BF232	2016	BF322	2030	BF518C	2016
BCY58C	1617	BD113	2058	BD5575	2020	BDY73	2020	BF233	2058	BF329	2016	BF519	2016
BCY58D	1617	BD124	2020	BD577	2020	BDY80	2020	BF233-2	2058	BF332	2016	BF519C	2009
BCY58IX	1617	BD-127	1104	BD579	2020	BDY81	2020	BF233-3	2058	BF333	2016	BF519R	2016

ARCHER SEMICONDUCTOR REPLACEMENT GUIDE

DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
BFS20	2016	BFV60	2016	BFX69	2030	BFY79	2016	BRR102	1173	BSW11	1617	BSX52A	1617
BFS20R	2016	BFV61	2016	BFX69A	2030	BFY80	2030	BRR103	1173	BSW12	1617	BSX53	1617
BFS21	2035	BFV62	2016	BFX73	2016	BFY85	1617	BRR104	1173	BSW13	2016	BSX54	1617
BFS21A	2035	BFV80	2016	BFX74	2030	BFY86	1617	BRR151	1173	BSW19	1617	BSX59	2030
BFS23A	2041	BFV81	2023	BFX77	2016	BFY87	2016	BRR152	1173	BSW20	2023	BSX60	2030
BFS26E	2023	BFV81A	2023	BFX84	2030	BFY87A	2016	BRR153	1173	BSW21	2023	BSX61	2030
BFS26F	2023	BFV81B	2023	BFX85	2030	BFY88	2016	BRR154	1173	BSW21A	2023	BSX62	2030
BFS26G	2023	BFV82	2023	BFX86	2030	BFY90(SIEG)	1617	BRX44	1067	BSW22	2023	BSX62B	2030
BFS27E	2016	BFV82A	2023	BFX89	2016	BFY90B	2016	BRX45	1067	BSW22A	2023	BSX62C	2030
BFS27F	2016	BFV82B	2023	BFX92	1617	BFY94	1617	BRX46	1067	BSW24	2023	BSX62D	2030
BFS27G	2016	BFV82C	2023	BFX92A	1617	BFY99	2030	BRX47	1067	BSW26	2030	BSX63B	2030
BFS29	2030	BFV83	2016	BFX93	1617	BFY167	2016	BRX48	1020	BSW27	2030	BSX63C	2030
BFS31	2023	BFV83A	2016	BFX93A	2016	BFY371	1617	BRX49	1020	BSW28	2030	BSX66	1617
BFS31P	1617	BFV83B	1617	BFX94	1617	BFY391	1617	BRX60	1067	BSW29	2030	BSX67	1617
BFS32	2023	BFV83C	1617	BFX95	1617	BG-07077	562	BRX61	1067	BSW32	2009	BSX68	1617
BFS32P	2023	BFV85	1617	BFX95A	1617	BG-66	1617	BRX62	1067	BSW33	1617	BSX69	1617
BFS33	2023	BFV85A	1617	BFX96	1617	BG71	1617	BRX64	1020	BSW34	1617	BSX70	2030
BFS33P	2023	BFV85B	1617	BFX96A	2030	BG-94	1617	BRY54-100	1067	BSW35	2030	BSX71	2030
BFS34P	2023	BFV85C	1617	BFX97	2030	BH4R1	1104	BRY54-300	1020	BSW39	1617	BSX72	2030
BFS36	2030	BFV85D	2016	BFX97A	2030	BH4R6	1114	BRY55-30	1067	BSW39-6	2030	BSX75	1617
BFS36A	1617	BFV85E	2016	BFX99	2030	BH71	1617	BRY55-60	1067	BSW39-10	2030	BSX76	1617
BFS37	2023	BFV85F	2016	BFY10	1617	BH-DX0038CEZZ	1104	BRY55-100	1067	BSW39-16	2030	BSX77	1617
BFS37A	2023	BFV85G	2016	BFY11	1617	BI71	1617	BRY55-200	1067	BSW41	1617	BSX78	1617
BFS38	1617	BFV86	2023	BFY12	1617	BIP7201	1617	BRY55-300	1020	BSW42	1617	BSX79	1617
BFS38A	1617	BFV86A	2023	BFY13	2030	BIW	1617	BS08H	1000	BSW42A	1617	BSX79A	2009
BFS39	2009	BFV86B	2023	BFY14	2030	BLY10	2041	BS1	1104	BSW43	1617	BSX79B	2009
BFS40	2023	BFV86C	2023	BFY15	2030	BLY11	2041	BS2	1104	BSW43A	1617	BSX80	1617
BFS40A	2023	BFV87	1617	BFY17	2030	BLY20	2017	BS-66	1617	BSW44	2023	BSX81	1617
BFS41	2023	BFV88	1617	BFY18	1617	BLY21	2020	BS67	1617	BSW44A	2023	BSX81A	2009
BFS42	1617	BFV88A	1617	BFY19	1617	BLY27	2009	BS68	2023	BSW45	2023	BSX81B	2009
BFS43	1617	BFV88B	1617	BFY22	1617	BLY36	2020	BS-94	1617	BSW45A	2023	BSX87	1617
BFS51	2017	BFV88C	1617	BFY23	1617	BLY37	2017	BS475	1617	BSW49	2030	BSX88	1617
BFS55A	2016	BFV89	2016	BFY23A	1617	BLY38	2017	BS9011G	2009	BSW51	1617	BSX89	1617
BFS58	2016	BFV89A	2016	BFY24	1617	BLY47	2041	BSA01	1122	BSW52	1617	BSX90	1617
BFS62	2016	BFW10	2035	BFY25	1617	BLY48	2041	BSA02	1122	BSW53	1617	BSX91	1617
BFS68	2035	BFW11	2035	BFY26	1617	BLY53	2017	BSA11	1122	BSW58	2009	BSX92	2016
BFS68P	2035	BFW12	2035	BFY27	2030	BLY61	2030	BS-B1	1171	BSW59	2009	BSX93	2016
BFS69	2023	BFW13	2035	BFY28	1617	BLY62	2017	BS-B4	1173	BSW65	2030	BSX94A	1617
BFS96	2023	BFW20	2023	BFY29	1617	BLY63	2020	BS510	1617	BSW66	2030	BSX95	2030
BFS97	2023	BFW21	2023	BFY30	1617	BLY68	2020	BS521	1617	BSW72	2023	BSX96	2030
BFS98	2023	BFW22	2023	BFY33	1617	BLY78	2017	BS522	1617	BSW73	2023	BSX97	1617
BFT20	2023	BFW23	2023	BFY34	2030	BLY79	2020	BS526	1617	BSW74	2023	BSY10	1617
BFT21	2023	BFW29	1617	BFY37	1617	BLY88	2020	BS528	2030	BSW75	2023	BSY11	1617
BFT22	2023	BFW31	2023	BFY37I	1617	BLY89	2020	BS529	2030	BSW81	2023	BSY17	1617
BFT29	2030	BFW32	1617	BFY39	1617	BLY91	2017	BS540	2030	BSW82	1617	BSY18	1617
BFT30	2030	BFW41	2016	BFY39/I	1617	BLY92	2020	BS541	2030	BSW83	1617	BSY19	2009
BFT31	2030	BFW46	1617	BFY39/2	1617	BN-66	1617	BSV21	2023	BSW84	1617	BSY20	1617
BFT39	2030	BFW50	1171	BFY39/3	1617	BN7133	2041	BSV35	2016	BSW85	1617	BSY21	1617
BFT40	2030	BFW54	2035	BFY39/I	1617	BN7214	2041	BSV35A	1617	BSW88	1617	BSY22	2016
BFT41	2030	BFW55	2035	BFY39/II	1617	BN7517	1617	BSV40	1617	BSW88A	2009	BSY23	2016
BFT54	2030	BFW56	2035	BFY39/III	1617	BN7518	1617	BSV41	1617	BSW88B	2009	BSY24	1617
BFT55	1617	BFW59	1617	BFY39-1	2016	BN7551	563	BSV42	2023	BSW89	1617	BSY25	1617
BFT70	2023	BFW60	1617	BFY39-2	2016	BO-71	2016	BSV43A	2023	BSW89A	2009	BSY26	1114
BFT71	2023	BFW61	2035	BFY39-3	2016	BO319200	705	BSV44A	2023	BSW89B	2009	BSY27	1617
BFV10	2009	BFW63	2016	BFY39I	1617	BO470016	1617	BSV45A	2023	BSW92	1617	BSY28	1617
BFV11	2009	BFW64	2016	BFY40	2030	BO470116	2411	BSV46	2023	BSX12	2016	BSY29	1617
BFV12	2009	BFW68	1617	BFY44	2030	BP67	2030	BSV47A	2023	BSX12A	2030	BSY34	1617
BFV20	2023	BFW87	2023	BFY46	2030	BQ67	1617	BSV48A	2023	BSX19	1617	BSY38	1617
BFV21	2023	BFW89	2023	BFY47	2016	BQ-94	1617	BSV49A	2023	BSX23	2030	BSY39	1617
BFV22	2023	BFW90	2023	BFY48	2016	BR-1	1171	BSV51	2030	BSX24	1617	BSY40	2023
BFV25	2023	BFX17	2030	BFY49	2016	BR42	1104	BSV52	2016	BSX25	1617	BSY41	2023
BFV26	2023	BFX18	2016	BFY50	2030	BR44	1104	BSV52R	2016	BSX26	2016	BSY44	2030
BFV27	2016	BFX19	2016	BFY51	2030	BR46	1104	BSV53	1617	BSX27	2016	BSY45	2030
BFV28	2016	BFX20	2016	BFY51I	2030	BR47	1104	BSV53P	2016	BSX30	1617	BSY46	2030
BFV29	2023	BFX21	2016	BFY52	2030	BR48	1104	BSV54	1617	BSX33	2030	BSY48	1617
BFV30	2023	BFX29	2023	BFY53	2030	BR52	1104	BSV54P	2016	BSX35	2016	BSY49	1617
BFV31	2023	BFX30	2023	BFY55	2030	BR-66	1617	BSV55	1617	BSX36	2023	BSY51	2030
BFV32	2023	BFX31	2016	BFY56	2030	BR67	1617	BSV55A	2023	BSX38	1617	BSY52	2030
BFV33	2023	BFX32	2016	BFY56A	2030	BR81D	1171	BSV55AP	2023	BSX38A	1617	BSY53	2030
BFV34	2023	BFX35	2023	BFY56B	2030	BR-82	2023	BSV55P	2023	BSX38B	1617	BSY54	2030
BFV37	2016	BFX37	2023	BFY66	2030	BR84D	1173	BSV59	1617	BSX44	1617	BSY55	2030
BFV38	2016	BFX43	1617	BFY67	2030	BR-100B	2017	BSV65FA	2009	BSX45	2030	BSY56	2030
BFV40	2009	BFX44	1617	BFY67A	2030	BR100B	2017	BSV65FB	2009	BSX45-6	2030	BSY58	1617
BFV41	2009	BFX45	2016	BFY67C	2030	BR-101B	2020	BSV69	2030	BSX45-10	2030	BSY59	1617
BFV42	2009	BFX47	2016	BFY68	2030	BR101B	2020	BSV77	2016	BSX45-16	2030	BSY61	1617
BFV43	2009	BFX50	2030	BFY68A	2030	BR103	1067	BSV84	2030	BSX46	2030	BSY62	1617
BFV44	2009	BFX51	2030	BFY69	2016	BR805D	1171	BSV86	2009	BSX46-6	2030	BSY62A	1617
BFV45	2009	BFX52	2030	BFY69A	2016	BR-832	2023	BSV87	2009	BSX46-10	2030	BSY63	1617
BFV46	2009	BFX59	2009	BFY69B	2016	BR51400-1	1104	BSV88	1617	BSX46-16	2030	BSY70	1617
BFV47	2009	BFX59F	1617	BFY70	2030	BR51401-2	1104	BSV89	1617	BSX47	2030	BSY71	2030
BFV49	2009	BFX60	2016	BFY72	1617	BRF151	1171	BSV90	1617	BSX47-6	2030	BSY72	1617
BFV50	2009	BFX61	2030	BFY73	1617	BRF152	1171	BSV91	1617	BSX47-10	2030	BSY73	1617
BFV51	2009	BFX62	2016	BFY74	1617	BRF154	1173	BSV92	2058	BSX48	1617	BSY74	1617
BFV53	2009	BFX65	2023	BFY75	1617	BRF201	1171	BSV96	2023	BSX49	1617	BSY75	1617
BFV54	2009	BFX66	1617	BFY76	1617	BRF202	1171	BSV97	2023	BSX51	1617	BSY76	1617
BFV55	2009	BFX68	2030	BFY77	1617	BRF204	1173	BSV98	2023	BSX51A	1617	BSY77	2030
BFV59	2016	BFX68A	2030	BFY78	2016	BRR101	1173	BSW10	2030	BSX52	1617	BSY78	2030

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
BSY80	1617	BY124	2020	BY1001	1114	BZ-120	563	BZX55-C4V7	565	BZX83C12	563	BZY83D13	563
BSY81	2030	BY144	2041	BY1002	1114	BZ-120	563	BZX55-C5V1	565	BZX83C15V	563	BZY83D15	564
BSY82	2030	BY25	1104	BY1101	1114	BZ-141	564	BZX55-C4V2	561	BZX83C15	564	BZY83D12	563
BSY83	2030	BY67	1617	BY1102	1114	BZ145	564	BZX55-C5V1	561	BZX83C15V	564	BZY85-C5V1	563
BSY84	2030	BY71	1617	BY1300	1114	BZ-180	564	BZX55-C12	563	BZX84C4V7	563	BZY85-C15	564
BSY85	2030	BW67	1617	BY1201	1114	BZ150	564	BZX55-C15	564	BZX84C5V1	565	BZY85/D15	564
BSY86	2030	BW71	1617	BY1202	1114	BZ821T	561	BZX55C4V7	565	BZX84C6V2	561	BZY85-C4V7	565
BSY87	2030	BX090	562	BY521	1104	BZ821TF	561	BZX55C5V1	565	BZX84C9V1	565	BZY85-C6V1	561
BSY88	2030	BX67	1617	BYV950	1104	BZ821TT	561	BZX55C6V2	561	BZX84C12	563	BZY85-C6V2	561
BSY89	1617	BX71	1617	BYW27-50	1101	BZ963	563	BZX55C9V1	562	BZX85C4V7	565	BZY85-C9V1	562
BSY90	2030	BX909	562	BYW71	1104	BZ963F	563	BZX55C12	563	BZX85C5V1	565	BZY85-C12	562
BSY91	1617	BX110	1114	BYX10	1114	BZ963T	563	BZX55C15V	564	BZX85C6V2	561	BZY85-C15	564
BSY92	2030	BX143	562	BYX12-400	1114	BZ965	564	BZX55C15V	564	BZX85C9V1	561	BZY85-D4V7	563
BSY93	1617	BY12-30	1114	BYX13-400	1114	BZ965F	564	BZX55C15V	564	BZY85C12	563	BZY85-D12	563
BSY95	1617	BY67	1617	BYX21-200	1104	BZ965T	564	BZX55C15V	564	BZY85C15	564	BZY85-D15	564
BSY95A	1617	BY71	1617	BYX22-400	1104	BZ1021V4	1122	BZX58C9V1	562	BZX88C4V7	565	BZY85B6V2	561
BSY165	1617	BY100	1114	BYX22-600	1104	BZ2090	562	BZX59-C15	564	BZX88C5V1	565	BZY85B15	564
BSY168	1617	BY100S	1114	BYX22-800	1114	BZV18C6V2	561	BZX59C12	563	BZX88C6V2	561	BZY85C4V7	565
BT67	1617	BY101	1104	BYX22-200	1104	BZV18C9V1	562	BZX59C15	564	BZX88C9V1	562	BZY85C5V1	565
BT71	1617	BY102	1104	BYX22-400	1103	BZV18C12	563	BZX63C9V1	562	BZX88C12	563	BZY85C6V2	561
BT82	2029	BY104	1114	BYX27-400	1104	BZV27	561	BZX64C12	563	BZX88C15	564	BZY85C9V1	562
BT-94	1617	BY105	1114	BYX27-600	1114	BZV27A	561	BZX64C15	564	BZX95-C6V2	561	BZY85C12	563
BT1004-300R	1020	BY106	1104	BYX34-40	1114	BZV28	561	BZX66-C9V2	562	BZX95-C9V1	562	BZY85C15	564
BT1044	1067	BY107	1104	BYX30-150	1143	BZV28A	561	BZX66-C12	562	BZX95-C12	563	BZY85D4V7	565
BT1048	1067	BY108	1114	BYX36-150	1114	BZV29	561	BZX68C12	563	BZX96-C4V7	565	BZY85D15	563
BT106C	1020	BY109	1114	BYX36-300	1104	BZV29A	561	BZX71-B5V1	565	BZX96-C5V1	565	BZY85D15	564
BT106D	1020	BY111	1104	BYX36-600	1104	BZV30	561	BZX71-B6V2	561	BZX96-C6V2	561	BZY88/C5V1	565
BT929	2016	BY112	1104	BYX38	1114	BZV30A	561	BZX71-B9V1	562	BZX96-C9V1	562	BZY88/C6V2	561
B-T-1000-139	2016	BY113	1104	BYX45-600R	1114	BZV31	561	BZX71-C12	563	BZX96-C12	563	BZY88/C9V1	562
BT8667	2035	BY114	1104	BYX45-800R	1114	BZV31A	561	BZX71-815	564	BZX96-C15	564	BZY88/C9V5	562
BT151300H	1020	BY115	1104	BTX45-1000R	1114	BZV32	562	BZX71-C1V1	562	BZY94C4V7	565	BZY88C9V7	565
BT61090	1114	BY116	1104	BTX46-50	1122	BZV32A	562	BZX71-C6V2	561	BZY94C5V1	561	BZY88-C4V7	565
BT00106	1000	BY117	1104	BTX55-100	1122	BZV32B	562	BZX71-C9V1	562	BZY94C6V2	561	BZY88-C5V1	565
BT00110	1000	BY118	1114	BTX58-300	1122	BZV33	562	BZX71-C12	563	BZY94C9V1	561	BZY88-C6V2	561
BT00120	1000	BY119	1114	BTX60-50	1104	BZV33A	562	BZX71-C15	564	BZY94C12	563	BZY88-C9V1	562
BT00140	1000	BY121	1104	BTX60-100	1104	BZV33B	562	BZ171B5V1	1114	BZY94C15	564	BZY88-C12	563
BT00120	1000	BY122	1171	BTX60-200	1104	BZV34	562	BZK71B6V2	561	BZY97-C4V7	565	BZY88-C15	564
BT00340	1000	BY124	1104	BTX60-300	1104	BZV34A	562	BZK71B9V1	562	BZY97-C5V1	565	BZY88C14V7	565
BTM-50	1141	BY125	1104	BTX60-400	1104	BZV34B	562	BZK71B12	563	BZY97-C6V2	561	BZY88C15V1	565
BTM50	1104	BY126	1104	BTX60-500	1104	BZV35	562	BZK71B15	564	BZY97-C9V1	562	BZY88C6V2	561
BTM1000	1114	BY126/30	1114	BTX60-600	1104	BZV35A	562	BZK71C12	563	BZY97-C12	563	BZY88C9V1	562
BT11005	1000	BY126/100	1114	BTX60-700	1114	BZV35B	562	BZK71C15	561	BZY97-C15	564	BZY88C12	563
BT11010	1000	BY126/200	1114	BTX60-800	1114	BZV36	562	BZK71C9V1	563	BZY97C4V7	565	BZY88C12V1	565
BT11020	1000	BY126/300	1114	BTX60-900	1114	BZV36A	562	BZK71C12	563	BZY97C5V1	565	BZY88C15	564
BT13100	1122	BY126/400	1114	BTX60-1000	1114	BTX60-50	1104	BZK71C15	564	BZY97C6V2	561	BZY88C15V1	564
BTX-064	1617	BY-127	1104	BTX60-100	1104	BTX60-100	1104	BZK72	562	BZY97C9V1	562	BZY92/C5V1	565
BTX-094	1617	BY127/500	1114	BTX60-200	1104	BTX60-200	1104	BZK72A	562	BZY97C12	563	BZY92/C15	564
BTX-095	1617	BY127/600	1114	BTX60-300	1104	BTX60-300	1104	BZK72B	562	BZY97C15	564	BZY92C4V7	565
BTX-096	1617	BY127/700	1114	BTX60-400	1104	BTX60-400	1104	BZK72C	562	BZY17C6V2	561	BZY92C5V1	565
BTX18-100	1067	BY128	1114	BTX60-500	1104	BTX60-500	1104	BZK74-C6V2	563	BZY17C9V1	562	BZY92C6V2	561
BTX18-200	1067	BY129	1114	BTX60-600	1104	BTX60-600	1104	BZK74-C9V1	563	BZY17C12	563	BZY92C9V1	562
BTX18-300	1020	BY130	1104	BTX60-700	1114	BTX60-700	1114	BZK74-C12	563	BZY17C15	564	BZY92C12	563
BTX18-400	1020	BY134	1104	BTX60-800	1114	BTX60-800	1114	BZK74C15	563	BZY17C18	564	BZY92C15	564
BTX30-100	1067	BY135	1104	BTX60-900	1114	BTX60-900	1114	BZK74C18	563	BZY17C21	564	BZY92C18	564
BTX30-200	1067	BY141	1104	BTX60-1000	1114	BTX60-1000	1114	BZK75C9V1	563	BZY17C24	564	BZY92C21	564
BTX30-300	1020	BY153	1104	BZ058	561	BZV85C6V2	561	BZK75C12	563	BZY17C27	564	BZY92C24	564
BTX30-400	1020	BY156	1114	BZ-061	561	BZV85C9V1	562	BZK75C15	564	BZY17C30	564	BZY92C27	564
BTX-2367B	1617	BY159-50	1173	BZ061	561	BZV85C12	563	BZK75C18	564	BZY17C33	564	BZY92C30	564
BTX2367B	1617	BY159-200	1173	BZ-063	561	BZV85C15	564	BZK75C21	564	BZY17C36	564	BZY92C33	564
BU67	1617	BY159-400	1173	BZ063	561	BZV85C18	564	BZK75C24	564	BZY17C39	564	BZY92C36	564
BU71	1617	BY164	1171	BZ-065	562	BZV85C21	564	BZK75C27	564	BZY17C42	564	BZY92C39	564
BU183	2055	BY172	1114	BZ-065	562	BZV85C24	564	BZK75C30	564	BZY17C45	564	BZY92C42	564
BU108-01	2035	BY173	1114	BZ-065	562	BZV85C27	564	BZK75C33	564	BZY17C48	564	BZY92C45	564
BU108	2035	BY179	1173	BZ065	562	BZV85C30	564	BZK75C36	564	BZY17C51	564	BZY92C48	564
BU115	2035	BY180	1114	BZ-070	562	BZV85C33	562	BZK75C39	564	BZY17C54	564	BZY92C51	564
BU204	2055	BY201	1144	BZ090	562	BZV85C36	564	BZK75C42	564	BZY17C57	564	BZY92C54	564
BU205	2055	BY201-200	1104	BZ090.1Z9	562	BZV85C39	564	BZK75C45	564	BZY17C60	564	BZY92C57	564
BU206	2055	BY201-300	1104	BZ-092	562	BZV85C42	564	BZK75C48	564	BZY17C63	564	BZY92C60	564
BU307	2055	BY201-400	1104	BZ092	562	BZV85C45	564	BZK75C51	564	BZY17C66	564	BZY92C63	564
BU208	2055	BY201-500	1104	BZ-094	562	BZV85C48	564	BZK75C54	564	BZY17C69	564	BZY92C66	564
BU208A	2055	BY201-600	1104	BZ094	562	BZV85C51	564	BZK75C57	564	BZY17C72	564	BZY92C69	564
BU208B	2055	BY206	1144	BZ-095	562	BZV85C54	564	BZK75C60	564	BZY17C75	564	BZY92C72	564
BU709	2055	BY210-400	1103	BZ1-90	562	BZV85C57	564	BZK75C63	564	BZY17C78	564	BZY92C75	564
BU225	2055	BY251	1114	BZ4-7	565	BZV85C60	564	BZK75C66	564	BZY17C81	564	BZY92C78	564
BU324	2055	BY252	1114	BZ5-1	565	BZV85C63	564	BZK75C69	564	BZY17C84	564	BZY92C81	564
BU326A	2055	BY253	1114	BZ6-2	561	BZV85C66	564	BZK75C72	564	BZY17C87	564	BZY92C84	564
BU326R	2055	BY254	1114	BZ9-1	562	BZV85C69	564	BZK75C75	564	BZY17C90	564	BZY92C87	564
BU326S	2055	BY255	1114	BZ12	563	BZV85C72	564	BZK75C78	564	BZY17C93	564	BZY92C90	564
BU500	2055	BY256	1171	BZ12	563	BZV85C75	564	BZK75C81	564	BZY17C96	564	BZY92C93	564
BU526	2055	BY318-100	1122	BZ67	1617	BZV85C78	564	BZK75C84	564	BZY17C99	564	BZY92C96	564
BU526	2055	BY401	1104	BZ71	1617	BZV85C81	564	BZK75C87	564	BZY18C02	564	BZY92C99	564
BU546	2055	BY402	1104	BZ106	563	BZV85C84	564	BZK75C90	564	BZY18C05	564	BZY92C102	564
BU4011B	2411	BY403	1104	BZ106A	563	BZV85C87	564	BZK75C93	564	BZY18C08	564	BZY92C105	564
BU-C-97704-2	2039	BY404	1104	BZ107	564	BZV85C90	564	BZK75C96	564	BZY18C11	564	BZY92C108	564
BU793	2073	BY405	1104	BZ107A	564	BZV85C93	564	BZK75C99	564	BZY18C14	564	BZY92C111	564
BUV10	2041	BY406	1104	BZ113	563	BZV85C96	564	BZK75C102	564	BZY18C17	564	BZY92C114	564
BUV11	2041	BY407	1104	BZ113	563								

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
C6A	1067	C17Y	1617	C22R	2030	C28L	1617	C33GN	2009	C46C(TRANS)	2030	C52C(TRANS)	1617
C6B	1067	C18(2S)	2009	C22X	2030	C28M	1617	C33H	2009	C46D	2030	C52D(TRANS)	1617
C6B3	1067	C18A	1617	C22Y	2030	C28OR	1617	C33J	2009	C46E(TRANS)	2030	C52E(TRANS)	1617
C6F	1067	C18B	1617	C23(2S)	2030	C28R	1617	C33K	2009	C46F(TRANS)	2030	C52F(TRANS)	1617
C6U	1067	C18C	1617	C23A	2030	C28X	1617	C33L	2009	C46G(TRANS)	2030	C52G(TRANS)	1617
C7	2023	C18D	1617	C23B	2030	C28Y	1617	C33M	2009	C46GN	2030	C52GN	1617
C7A4	1067	C18E	1617	C23D	2030	C29(2S)	1617	C33OR	2009	C46H(TRANS)	2030	C52H(TRANS)	1617
C8	2023	C18F	1617	C23E	2030	C29A	1617	C33R	2009	C46J	2030	C52J	1617
C-10-20A	1122	C18G	1617	C23F	2030	C29B	1617	C33X	2009	C46K	2030	C52K	1617
C10-20A	1122	C18GN	1617	C23G	2030	C29C	1617	C33Y	2009	C46L	2030	C52L	1617
C10-22C	1122	C18H	1617	C23GN	2030	C29D	1617	C37(2S)	1617	C46M(TRANS)	2030	C52M(TRANS)	1617
C1151C1E1C	1104	C18J	1617	C23H	2030	C29E	1617	C37A(TRANS)	1617	C46OR	2030	C52OR	1617
C12	2030	C18K	1617	C23H12B	1104	C29F	1617	C37B(TRANS)	1617	C46X	2030	C52X	1617
C12A(TRANS)	2030	C18L	1617	C23J	2030	C29G	1617	C37C(TRANS)	1617	C46Y	2030	C52Y	1617
C12B(TRANS)	2030	C18M	1617	C23K	2030	C29GN	1617	C37D(TRANS)	1617	C47(2S)	2030	C53	1617
C12C(TRANS)	2030	C18OR	1617	C23L	2030	C29H	1617	C37E(TRANS)	1617	C47A	2030	C53A	1617
C12D(TRANS)	2030	C18R	1617	C23M	2030	C29J	1617	C37F(TRANS)	1617	C47B	2030	C53B	1617
C12E	2030	C18X	1617	C23OR	2030	C29K	1617	C37G(TRANS)	1617	C47C	2030	C53C	1617
C12F(TRANS)	2030	C19(2S)	2030	C23R	2030	C29L	1617	C37GN	1617	C47D	2030	C53D	1617
C12G(TRANS)	2030	C19A	2030	C23X	2030	C29M	1617	C37H	1617	C47E	2030	C53E	1617
C12GN	2030	C19B	2030	C23Y	2030	C29OR	1617	C37J	1617	C47G	2030	C53F	1617
C12H(TRANS)	2030	C19C	2030	C24(2S)	2030	C29R	1617	C37K	1617	C47GN	2030	C53G	1617
C12J	2030	C19D	2030	C24A	2030	C29X	1617	C37L	1617	C47H	2030	C53GN	1617
C12M	2030	C19E	2030	C24B	2030	C29Y	1617	C37M(TRANS)	1617	C47J	2030	C53H	1617
C12L	2030	C19F	2030	C24C	2030	C30(2S)	2030	C37OR	1617	C47K	2030	C53J	1617
C12M	2030	C19G	2030	C24D	2030	C30-OR	2030	C37R	1617	C47L	2030	C53L	1617
C12OR	2030	C19GN	2030	C24E	2030	C30A(TRANS)	2030	C37X	1617	C47M	2030	C53OR	1617
C12R	2030	C19H	2030	C24F	2030	C30B(TRANS)	2030	C37Y	1617	C47OR	2030	C53R	1617
C12X	2030	C19J	2030	C24G	2030	C30C(TRANS)	2030	C38	2009	C47R	2030	C53X	1617
C12Y	2030	C19K	2030	C24GN	2030	C30D(TRANS)	2030	C38(2S)	1617	C47X	2030	C53Y	1617
C15	1617	C19L	2030	C24H	2030	C30E(TRANS)	2030	C38A(TRANS)	1617	C47Y	2030	C54(2S)	1617
C15-0	1617	C19M	2030	C24J	2030	C30F(TRANS)	2030	C38B(TRANS)	1617	C48(2S)	2030	C54A	1617
C15-1(2S)	1617	C19OR	2030	C24K	2030	C30G	2030	C38C(TRANS)	1617	C48A	2030	C54B	1617
C15-2(2S)	1617	C19R	2030	C24L	2030	C30GN	2030	C38D(TRANS)	1617	C48B	2030	C54C	1617
C15-3(2S)	1617	C19X	2030	C24M	2030	C30H	2030	C38E(TRANS)	1617	C48C(2S)	2030	C54D	1617
C15A(TRANS)	1617	C19Y	2030	C24OR	2030	C30J	2030	C38F(TRANS)	1617	C48D	2030	C54E	1617
C15B(TRANS)	1617	C20(2S)	2030	C24R	2030	C30L	2030	C38G(TRANS)	1617	C48E	2030	C54F	1617
C15C(TRANS)	1617	C20A(TRANS)	2030	C24X	2030	C30M(TRANS)	2030	C38H(TRANS)	1617	C48F	2030	C54G	1617
C15D(TRANS)	1617	C20B(TRANS)	2030	C24Y	2030	C30OR	2030	C38J	1617	C48G	2030	C54GN	1617
C15E(TRANS)	1617	C20C(TRANS)	2030	C25-06M	1104	C30R	2030	C38K	1617	C48GN	2030	C54H	1617
C15F(TRANS)	1617	C20D(TRANS)	2030	C26(2S)	1617	C30X	2030	C38L	1617	C48H	2030	C54J	1617
C15G(TRANS)	1617	C20E(TRANS)	2030	C26A	1617	C30Y	2030	C38M(TRANS)	1617	C48J	2030	C54K	1617
C15GN	1617	C20F(TRANS)	2030	C26B	1617	C31(2S)	2030	C38OR	1617	C48K	2030	C54L	1617
C15H(TRANS)	1617	C20G	2030	C26C	1617	C31A(TRANS)	2030	C38R	1617	C48L	2030	C54M	1617
C15J	1617	C20GN	2030	C26D	1617	C31B(TRANS)	2030	C38X	1617	C48M(TRANS)	2030	C54OR	1617
C15K	1617	C20H	2030	C26E	1617	C31C(TRANS)	2030	C38Y	1617	C48OR	2030	C54X	1617
C15L	1617	C20J	2030	C26F	1617	C31D(TRANS)	2030	C39	2016	C48R	2030	C54Y	1617
C15M(TRANS)	1617	C20K	2030	C26G	1617	C31E(TRANS)	2030	C39-207	1617	C48X	2030	C55(2S)	1617
C15OR	1617	C20L	2030	C26GN	1617	C31F(TRANS)	2030	C39A(2S)	2016	C48Y	2030	C55A(TRANS)	1617
C15R	1617	C20M(TRANS)	2030	C26H	1617	C31G	2030	C39B	2016	C49(2S)	2030	C55B(TRANS)	1617
C15X	1617	C20OR	2030	C26J	1617	C31GN	2030	C39C	2016	C49A(TRANS)	2030	C55C(TRANS)	1617
C15Y	1617	C20R	2030	C26K	1617	C31H	2030	C39D	2016	C49B(TRANS)	2030	C55D(TRANS)	1617
C16(2S)	1617	C20X	2030	C26L	1617	C31J	2030	C39E	2016	C49C(TRANS)	2030	C55E(TRANS)	1617
C16A(2S)	1617	C20Y	2030	C26M	1617	C31K	2030	C39F	2016	C49D(TRANS)	2030	C55F(TRANS)	1617
C16B	1617	C21	2041	C26OR	1617	C31L	2030	C39G	2016	C49E(TRANS)	2030	C55G(TRANS)	1617
C16C	1617	C21(2S)	2041	C26R	1617	C31M	2030	C39GN	2016	C49F	2030	C55GN	1617
C16D	1617	C21A	2041	C26X	1617	C31OR	2030	C39H	2016	C49G(TRANS)	2030	C55H(TRANS)	1617
C16E	1617	C21B	2041	C26Y	1617	C31R	2030	C39J	2016	C49GN	2030	C55J	1617
C16F	1617	C21C	2041	C27(2S)	1617	C31X	2030	C39K	2016	C49H	2030	C55K	1617
C16G	1617	C21D	2041	C27A	1617	C31Y	2030	C39L	2016	C49J	2030	C55L	1617
C16GN	1617	C21E	2041	C27B	1617	C32(2S)	2030	C39M	2016	C49K	2030	C55M(TRANS)	1617
C16H	1617	C21F	2041	C27D	1617	C32A	2030	C39OR	2016	C49L	2030	C55OR	1617
C16J	1617	C21G	2041	C27E	1617	C32A(2S)	2030	C39R	2016	C49M(TRANS)	2030	C55R	1617
C16K	1617	C21GN	2041	C27F	1617	C32B(TRANS)	2030	C39X	2016	C49OR	2030	C55X	1617
C16L	1617	C21H	2041	C27G	1617	C32C(TRANS)	2030	C39Y	2016	C49X	2030	C55Y	1617
C16M	1617	C21J	2041	C27GN	1617	C32D(TRANS)	2030	C40(2S)	2016	C49Y(2S)	2030	C56(2S)	2016
C16OR	1617	C21K	2041	C27H	1617	C32E(TRANS)	2030	C40A(TRANS)	2016	C51(2S)	2030	C56A(TRANS)	2016
C16R	1617	C21L	2041	C27J	1617	C32F(TRANS)	2030	C40B(TRANS)	2016	C51A	2030	C56B(TRANS)	2016
C16X	1617	C21M	2041	C27K	1617	C32G	2030	C40C(TRANS)	2016	C51B	2030	C56C(TRANS)	2016
C16Y	1617	C21OR	2041	C27L	1617	C32GN	2030	C40D(TRANS)	2016	C51C	2030	C56D(TRANS)	2016
C17(2S)	1617	C21R	2041	C27M	1617	C32H	2030	C40E(TRANS)	2016	C51D	2030	C56E(TRANS)	2016
C17A(2S)	1617	C21X	2041	C27OR	1617	C32J	2030	C40F(TRANS)	2016	C51E	2030	C56F(TRANS)	2016
C17B	1617	C21Y	2041	C27R	1617	C32K	2030	C40G(TRANS)	2016	C51F	2030	C56G(TRANS)	2016
C17C	1617	C22(2S)	2030	C27X	1617	C32L	2030	C40GN	2016	C51G	2030	C56GN	2016
C17D	1617	C22A(TRANS)	2030	C27Y	1617	C32M	2030	C40H(TRANS)	2016	C51GN	2030	C56H(TRANS)	2016
C17E	1617	C22B(TRANS)	2030	C28(2S)	1617	C32OR	2030	C40J	2016	C51H	2030	C56J	2016
C17F	1617	C22D(TRANS)	2030	C28A	1617	C32R	2030	C40K	2016	C51J	2030	C56K	2016
C17G	1617	C22E(TRANS)	2030	C28B	1617	C32X	2030	C40L	2016	C51K	2030	C56L	2016
C17GN	1617	C22F(TRANS)	2030	C28C	1617	C32Y	2030	C40OR	2016	C51L	2030	C56M(TRANS)	2016
C17H	1617	C22G	2030	C28D	1617	C33(2S)	2009	C40R	2016	C51M	2030	C56OR	2016
C17J	1617	C22GN	2030	C28E	1617	C33A(TRANS)	2009	C40X	2016	C51OR	2030	C56R	2016
C17K	1617	C22H	2030	C28F	1617	C33B(TRANS)	2009	C40Y	2016	C51R	2030	C56X	2016
C17L	1617	C22J	2030	C28G	1617	C33C(TRANS)	2009	C44-04	1104	C51X	2030	C56Y	2016
C17M	1617	C22K	2030	C28GN	1617	C33D(TRANS)	2009	C45(2S)	1617	C51Y	2030	C59(2S)	2030
C17OR	1617	C22L	2030	C28H	1617	C33E(TRANS)	2009	C46(2S)	2030	C52	1617	C59A	2030
C17R	1617	C22M	2030	C28J	1617	C33F(TRANS)	2009	C46A(TRANS)	2030	C52A(TRANS)	1617	C59B	2030
C17X	1617	C22OR	2030	C28K	1617	C33G	2009	C46B(TRANS)	2030	C52B(TRANS)	1617	C59C	2030

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C59D	2030	C67B	1617	C79R	2058	C95OR	2030	C103G	1617	C107D1	1020	C109K	2030
C59E	2030	C67C	1617	C79X	2058	C95R	2030	C103GN	1617	C107D2	1020	C109L	2030
C59F	2030	C67D	1617	C79Y	2058	C95X	2030	C103H	1617	C107D3	1020	C109OR	2030
C59G	2030	C67E	1617	C80	2016	C95Y	2030	C103J	1617	C107D4	1020	C109R	2030
C59GN	2030	C67F	1617	C80(2S)	2016	C96	2009	C103K	1617	C107F	1067	C109X	2030
C59H	2030	C67G	1617	C80A(TRANS)	2016	C97	2030	C103L	1617	C107F1	1067	C109Y	2030
C59J	2030	C67GN	1617	C80B(TRANS)	2016	C97(2S)	2030	C103M	1617	C107F2	1067	C110(2S)	1617
C59K	2030	C67H	1617	C80C(TRANS)	2016	C97A(2S)	2030	C103Q	1067	C107F3	1067	C110A	1617
C59L	2030	C67J	1617	C80D(TRANS)	2016	C97B	2030	C103X	1617	C107F4	1067	C110B	1617
C59M	2030	C67K	1617	C80E(TRANS)	2016	C97C	2030	C103Y	1067	C107G4	2020	C110C	1617
C59OR	2030	C67L	1617	C80F(TRANS)	2016	C97D	2030	C103Y(2S)	1617	C107G5	2020	C110D	1617
C59R	2030	C67M	1617	C80G	2016	C97E	2030	C103YY	1067	C107G6	2020	C110E	1617
C59X	2030	C67R	1617	C80G(TRANS)	2016	C97F	2030	C104	1617	C107Q	1067	C110F	1617
C59Y	2030	C67X	1617	C80GN	2016	C97G	2030	C104(2S)	1617	C107Q1	1067	C110G	1617
C61(2S)	2030	C67Y	1617	C80H(TRANS)	2016	C97GN	2030	C104A(2S)	1617	C107Q2	1067	C110GN	1617
C61A	2030	C68(2S)	1617	C80J	2016	C97H	2030	C104B	1617	C107Q3	1067	C110H	1617
C61B	2030	C68A	1617	C80K	2016	C97J	2030	C104C	1617	C107Q4	1067	C110J	1617
C61C	2030	C68B	1617	C80L	2016	C97K	2030	C104D	1617	C107Y	1067	C110K	1617
C61D	2030	C68C	1617	C80M(TRANS)	2016	C97L	2030	C104E	1617	C107Y1	1067	C110L	1617
C61E	2030	C68D	1617	C80OR	2016	C97M	2030	C104F	1617	C107Y2	1067	C110M	1617
C61F	2030	C68E	1617	C80R	2016	C97OR	2030	C104G	1617	C107Y3	1067	C110OR	1617
C61G	2030	C68F	1617	C80X	2016	C97R	2030	C104GN	1617	C107Y4	1067	C110R	1617
C61GN	2030	C68G	1617	C80Y	2016	C97X	2030	C104H	1617	C108(2S)	2030	C110X	1617
C61H	2030	C68GN	1617	C82	2016	C97Y	2030	C104J	1617	C108A	1067	C110Y	1617
C61J	2030	C68H	1617	C82BN	2016	C98(2S)	1617	C104K	1617	C108A(TRANS)	2030	C111(2S)	1617
C61K	2030	C68J	1617	C82R	2016	C98A	1617	C104L	1617	C108A1	1067	C111A	1617
C61L	2030	C68K	1617	C82S	2016	C98B	1617	C104M	1617	C108A2	1067	C111B	2016
C61M	2030	C68L	1617	C83	2016	C98C	1617	C104OR	1617	C108A3	1067	C111B(TRANS)	1617
C61OR	2030	C68M	1617	C83-829	1104	C98D	1617	C104R	1617	C108A4	1067	C111C	1617
C61R	2030	C68OR	1617	C83-880	1104	C98E(2S)	1617	C104X	1617	C108A-O	2030	C111D	1617
C61Y	2030	C68R	1617	C87(2S)	1617	C98F	1617	C104Y	1617	C108A-R	2030	C111E	1617
C62	1617	C68X	1617	C87A	1617	C98G	1617	C105(2S)	1617	C108B	1067	C111E(TRANS)	1617
C62A(TRANS)	1617	C68Y	1617	C87B	1617	C98GN	1617	C105B	1617	C108B(TRANS)	2030	C111F	1617
C62B(TRANS)	1617	C69(2S)	2030	C87C	1617	C98H	1617	C106A	1067	C108B1	1067	C111G	1617
C62C(TRANS)	1617	C69A	2030	C87D	1617	C98J	1617	C106A1	1067	C108B2	1067	C111GN	1617
C62D(TRANS)	1617	C69B	2030	C87E	1617	C98K	1617	C106A2	1067	C108B3	1067	C111H	1617
C62E(TRANS)	1617	C69C	2030	C87F	1617	C98L	1617	C106A3	1067	C108B4	1067	C111J	1617
C62F(TRANS)	1617	C69D	2030	C87G	1617	C98M	1617	C106A4	1067	C108C	1020	C111K	1617
C62G(TRANS)	1617	C69E	2030	C87GN	1617	C98OR	1617	C106B	1067	C108C(TRANS)	2030	C111L	1617
C62GN	1617	C69F	2030	C87H	1617	C98R	1617	C106B1	1067	C108C1	1020	C111M	1617
C62H(TRANS)	1617	C69G	2030	C87J	1617	C98X	1617	C106B2	1067	C108C2	1020	C111OR	1617
C62J	1617	C69GN	2030	C87K	1617	C98Y	1617	C106B3	1067	C108C3	1020	C111R	1617
C62L	1617	C69H	2030	C87L	1617	C99(2S)	1617	C106B4	1067	C108C4	1020	C111X	1617
C62M	1617	C69J	2030	C87M	1617	C99A	1617	C106C	1020	C108D	1020	C111Y	1617
C62OR	1617	C69K	2030	C87OR	1617	C99B	1617	C106C1	1020	C108D(TRANS)	2030	C112(2S)	2030
C62R	1617	C69L	2030	C87R	1617	C99C	1617	C106C2	1020	C108D1	1020	C112A	2030
C62X	1617	C69M	2030	C87X	1617	C99D	1617	C106C3	1020	C108D2	1020	C112B	2030
C62Y	1617	C69OR	2030	C87Y	1617	C99E	1617	C106C4	1020	C108D3	1020	C112C	2030
C63	1617	C69R	2030	C88(2S)	2030	C99F	1617	C106D	1020	C108D4	1020	C112D	2030
C63(2S)	2016	C69X	2030	C88A(2S)	2030	C99G	1617	C106D1	1020	C108E(TRANS)	2030	C112E	2030
C63A	2016	C69Y	2030	C88B	2030	C99GN	1617	C106D2	1020	C108F	1067	C112F	2030
C63B	2016	C74(2S)	1617	C88C	2030	C99H	1617	C106D3	1020	C108F(TRANS)	2030	C112G	2030
C63D	2016	C74-GR	1617	C88D	2030	C99J	1617	C106D4	1020	C108F1	1067	C112GN	2030
C63E	2016	C74-O	1617	C88E	2030	C99K	1617	C106F	1067	C108F2	1067	C112H	2030
C63F	2016	C74-R	1617	C88F	2030	C99L	1617	C106F1	1067	C108F3	1067	C112J	2030
C63G	2016	C74-Y	1617	C88G	2030	C99M	1617	C106F2	1067	C108F4	1067	C112K	2030
C63GN	2016	C74A	1617	C88GN	2030	C99OR	1617	C106F3	1067	C108G	2030	C112L	2030
C63H	2016	C74B	1617	C88H	2030	C99R	1617	C106F4	1067	C108GN	2030	C112M	2030
C63J	2016	C74C	1617	C88J	2030	C99X	1617	C106G1	1067	C108H	2030	C112OR	2030
C63K	2016	C74D	1617	C88K	2030	C99Y	1617	C106G2	1067	C108J	2030	C112R	2030
C63L	2016	C74E	1617	C88L	2030	C100(2S)	1617	C106G3	1067	C108K	2030	C112X	2030
C63M	2016	C74F	1617	C88M	2030	C100-OY(2S)	1617	C106Q	1067	C-J8L	2030	C112Y	2030
C63OR	2016	C74G	1617	C88OR	2030	C100A	1617	C106Q1	1067	C108M(TRANS)	2030	C113(2S)	2030
C63R	2016	C74GN	1617	C88R	2030	C100B	1617	C106Q2	1067	C108OR	2030	C113A	2030
C63X	2016	C74H	1617	C88X	2030	C100C	1617	C106Q3	1067	C108Q2	1067	C113B	2030
C63Y	2016	C74J	1617	C88Y	2030	C100D	1617	C106Q4	1067	C108Q3	1067	C113C	2030
C64	2030	C74K	1617	C92(2S)	2020	C100E	1617	C106Y	1067	C108Q4	1067	C113D	2030
C64(2S)	2030	C74L	1617	C93(2S)	2020	C100F	1617	C106Y1	1067	C108R	2030	C113E	2030
C64A	2030	C74M	1617	C94(2S)	2020	C100G	1617	C106Y2	1067	C108X	2030	C113F	2030
C64B	2030	C74R	1617	C94AP	2020	C100GN	1617	C106Y3	1067	C108Y(TRANS)	2030	C113G	2030
C64C	2030	C74X	1617	C94E	2062	C100J	1617	C106Y4	1067	C108Y2	1067	C113GN	2030
C64D	2030	C74Y	1617	C95	2030	C100L	1617	C107	2020	C108Y3	1067	C113H	2030
C64E	2030	C79(2S)	2058	C95(2S)	2030	C100M	1617	C107A	1067	C108Y4	1067	C113J	2030
C64F	2030	C79A	2058	C95A	2030	C100OR	1617	C107A1	1067	C109(2S)	2030	C113K	2030
C64G	2030	C79B	2058	C95A(2S)	2030	C100R	1617	C107A2	1067	C109A(2S)	2030	C113L	2030
C64GN	2030	C79C	2058	C95B	2030	C100X	1617	C107A3	1067	C109A-O	2030	C113M	2030
C64H	2030	C79D	2058	C95C	2030	C100Y	1617	C107B	1067	C109A-R	2030	C113OR	2030
C64K	2030	C79E	2058	C95D	2030	C103	1617	C107B1	1067	C109A-Y	2030	C113R	2030
C64L	2030	C79F	2058	C95E(2S)	2030	C103(2S)	1617	C107B2	1067	C109B	2030	C113X	2030
C64M	2030	C79G	2058	C95F	2030	C103A(2S)	1617	C107B3	1067	C109C	2030	C113Y	2030
C64OR	2030	C79GN	2058	C95G	2030	C103A(SCR)	1067	C107B4	1067	C109D	2030	C114(2S)	2030
C64R	2030	C79H	2058	C95GN	2030	C103B	1067	C107C	1020	C109E	2030	C114A	2030
C64X	2030	C79J	2058	C95H	2030	C103B(2S)	1617	C107C1	1020	C109F	2030	C114B	2030
C64Y	2030	C79K	2058	C95J	2030	C103C	1617	C107C2	1020	C109G	2030	C114C	2030
C64Y-RST	2030	C79L	2058	C95K	2030	C103D	1617	C107C3	1020	C109G1	2030	C114D	2030
C67(2S)	1617	C79M	2058	C95L	2030	C103E	1617	C107C4	1020	C109GN	2030	C114E	2030
C67A	1617	C79OR	2058	C95M	2030	C103F	1617	C107D	1020	C109J	2030	C114F	2030

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C114G	2030	C119(2S)	2030	C124(2S)	2030	C132X	1617	C138R	1617	C151B	1617	C157K	1617
C114GN	2030	C119A	2030	C124A(TRANS)	2030	C132Y	1617	C138S	1617	C151C	1617	C157L	1617
C114H	2030	C119B	2030	C124B(TRANS)	2030	C133(2S)	1617	C138X	1617	C151D	1617	C157M(TRANS)	1617
C114J	2030	C119C	2030	C124C(TRANS)	2030	C133A	1617	C139	1617	C151E(TRANS)	1617	C157OR	1617
C114K	2030	C119D	2030	C124D(TRANS)	2030	C133C	1617	C139A	1617	C151G	1617	C157R	1617
C114L	2030	C119E	2030	C124E(TRANS)	2030	C133D	1617	C139B	1617	C151GN	1617	C157Y	1617
C114M	2030	C119F	2030	C124F(TRANS)	2030	C133E	1617	C139C	1617	C151H	1617	C158(2S)	1617
C114OR	2030	C119G	2030	C124G	2030	C133F	1617	C139D	1617	C151HA	1617	C158A	1617
C114R	2030	C119GN	2030	C124GN	2030	C133G	1617	C139E	1617	C151HB	1617	C158B	1617
C114X	2030	C119H	2030	C124H	2030	C133GN	1617	C139F	1617	C151HC	1617	C158C	1617
C114Y	2030	C119J	2030	C124J	2030	C133H	1617	C139G	1617	C151J	1617	C158D	1617
C115(2S)	2030	C119K	2030	C124K	2030	C133J	1617	C139GN	1617	C151K	1617	C158E(TRANS)	1617
C115-1	2030	C119L	2030	C124L	2030	C133K	1617	C139H	1617	C151L	1617	C158F	1617
C115-2	2030	C119M	2030	C124M(TRANS)	2030	C133L	1617	C139J	1617	C151M(TRANS)	1617	C158G(TRANS)	1617
C115-3	2030	C119OR	2030	C124OR	2030	C133M	1617	C139K	1617	C151OR	1617	C158GN	1617
C115-43	2030	C119R	2030	C124R	2030	C133OR	1617	C139M	1617	C151R	1617	C158H	1617
C115A	2030	C119X	2030	C124X	2030	C133X	1617	C139OR	1617	C151X	1617	C158J	1617
C115B	2030	C119Y	2030	C124Y	2030	C133Y	1617	C139R	1617	C151Y	1617	C158K	1617
C115C	2030	C120(2S)	1617	C125(2S)	2030	C134(2S)	1617	C139X	1617	C152	1617	C158L	1617
C115D	2030	C120A	1617	C127(2S)	1617	C134A	1617	C139Y	1617	C152A	1617	C158M(TRANS)	1617
C115E	2030	C120B	1617	C127A(TRANS)	1617	C134B(2S)	1617	C140	2030	C152B	1617	C158OR	1617
C115F	2030	C120C	1617	C127B(TRANS)	1617	C134C	1617	C140A(TRANS)	2030	C152C	1617	C158R	1617
C115G	2030	C120D	1617	C127C(TRANS)	1617	C134D	1617	C140C(TRANS)	2030	C152D	1617	C158X	1617
C115GN	2030	C120E	1617	C127D(TRANS)	1617	C134E	1617	C140D(TRANS)	2030	C152E(TRANS)	1617	C158Y	1617
C115H	2030	C120F	1617	C127E(TRANS)	1617	C134F	1617	C140E	2030	C152F	1617	C159(2S)	1617
C115J	2030	C120G	1617	C127F(TRANS)	1617	C134G	1617	C140F(TRANS)	2030	C152G	1617	C159A	1617
C115K	2030	C120GN	1617	C127G	1617	C134GN	1617	C140G	2030	C152GN	1617	C159B	1617
C115L	2030	C120H	1617	C127GN	1617	C134H	1617	C140GN	2030	C152H	1617	C159C	1617
C115M	2030	C120J	1617	C127H	1617	C134J	1617	C140H	2030	C152HA	1617	C159D	1617
C115OR	2030	C120K	1617	C127J	1617	C134K	1617	C140J	2030	C152HB	1617	C159E(TRANS)	1617
C115R	2030	C120M	1617	C127K	1617	C134L	1617	C140K	2030	C152HC	1617	C159F	1617
C115X	2030	C120R	1617	C127L	1617	C134M	1617	C140L	2030	C152J	1617	C159GN	1617
C115Y	2030	C120Y	1617	C127M(TRANS)	1617	C134OR	1617	C140M	2030	C152K	1617	C159H	1617
C116(2S)	2009	C121(2S)	2030	C127OR	1617	C134R	1617	C140OR	2030	C152L	1617	C159J	1617
C116 OR	2009	C121A	2030	C127R	1617	C134X	1617	C140R	2030	C152M(TRANS)	1617	C159K	1617
C116A(TRANS)	2009	C121B	2030	C127X	1617	C134Y	1617	C140X	2030	C152OR	1617	C159L	1617
C116B(TRANS)	2009	C121C	2030	C127Y	1617	C135(2S)	1617	C140Y	2030	C152R	1617	C159M(TRANS)	1617
C116C(TRANS)	2009	C121D	2030	C130(2S)	2030	C135A(TRANS)	1617	C141	2009	C152X	1617	C159OR	1617
C116D(TRANS)	2009	C121E	2030	C130A	2030	C135B(TRANS)	1617	C142	2009	C152Y	1617	C159R	1617
C116E	2009	C121F	2030	C130B	2030	C135C(TRANS)	1617	C143	2009	C153	2009	C159X	1617
C116F(TRANS)	2009	C121G	2030	C130C	2030	C135D(TRANS)	1617	C144	2009	C154B	2020	C159Y	1617
C116G	2009	C121GN	2030	C130D	2030	C135E(TRANS)	1617	C144A	2009	C155	2016	C160(2S)	1617
C116GN	2009	C121H	2030	C130E	2030	C135F(TRANS)	1617	C145	2009	C155(2S)	2016	C160A	1617
C116H	2009	C121J	2030	C130F	2030	C135G	1617	C146	2009	C155A(TRANS)	2016	C160B	1617
C116J	2009	C121L	2030	C130GN	2030	C135GN	1617	C146A(2S)	2009	C155B(TRANS)	2016	C160C	1617
C116K	2009	C121M	2030	C130H	2030	C135H	1617	C146B	1617	C155C(TRANS)	2016	C160D	1617
C116L	2009	C121OR	2030	C130J	2030	C135J	1617	C148	2016	C155D(TRANS)	2016	C160E	1617
C116M(TRANS)	2009	C121R	2030	C130K	2030	C135L	1617	C148A	2016	C155E(TRANS)	2016	C160F	1617
C116OR	2009	C121X	2030	C130L	2030	C135M(TRANS)	1617	C148B	2016	C155F	2016	C160G	1617
C116R	2009	C121Y	2030	C130M	2030	C135OR	1617	C148D	2016	C155GN	2016	C160GN	1617
C116T(2S)	2009	C122	2009	C130OR	2030	C135R	1617	C148E	2016	C155H	2016	C160H	1617
C116X	2009	C122(2S)	2030	C130R	2030	C135X	1617	C148F	2016	C155J	2016	C160J	1617
C116Y	2009	C122A(TRANS)	2030	C130X	2030	C135Y	1617	C148G	2016	C155K	2016	C160K	1617
C117(2S)	2030	C122B(TRANS)	2030	C130Y	2030	C136(2S)	1617	C148GN	2016	C155L	2016	C160L	1617
C117A	2030	C122C(TRANS)	2030	C131(2S)	1617	C136D(2S)	1617	C148H	2016	C155M(TRANS)	2016	C160M	1617
C117B	2030	C122D(TRANS)	2030	C131A	1617	C137	1617	C148J	2016	C155OR	2016	C160OR	1617
C117C	2030	C122E(TRANS)	2030	C131B	1617	C137A	1617	C148K	2016	C155R	2016	C160R	1617
C117D	2030	C122F(TRANS)	2030	C131C	1617	C137B	1617	C148L	2016	C155X	2016	C160X	1617
C117E	2030	C122G	2030	C131D	1617	C137C	1617	C148M(TRANS)	2016	C155Y	2016	C160Y	1617
C117G	2030	C122GN	2030	C131E	1617	C137D	1617	C148OR	2016	C156(2S)	2016	C162	2009
C117GN	2030	C122H	2030	C131F	1617	C137E(TRANS)	1617	C148R	2016	C156A(TRANS)	2016	C166	1617
C117H	2030	C122J	2030	C131G	1617	C137F	1617	C148X	2016	C156B(TRANS)	2016	C166(2S)	1617
C117J	2030	C122K	2030	C131GN	1617	C137G	1617	C148Y	2016	C156C(TRANS)	2016	C166A	1617
C117K	2030	C122L	2030	C131H	1617	C137GN	1617	C149	2030	C156D(TRANS)	2016	C166B	1617
C117L	2030	C122M(TRANS)	2030	C131J	1617	C137H	1617	C150(2S)	2030	C156E(TRANS)	2016	C166C	1617
C117M	2030	C122OR	2030	C131L	1617	C137J	1617	C150-OR	2030	C156F	2016	C166D	1617
C117OR	2030	C122R	2030	C131M	1617	C137K	1617	C150A	2030	C156G(TRANS)	2016	C166E	1617
C117R	2030	C122X	2030	C131OR	1617	C137L	1617	C150B	2030	C156GN	2016	C166F	1617
C117X	2030	C122Y	2030	C131R	1617	C137M(TRANS)	1617	C150C	2030	C156H	2016	C166G	1617
C117Y	2030	C123	2030	C131T	1617	C137OR	1617	C150D	2030	C156J	2016	C166GN	1617
C118(2S)	2030	C123A	2030	C131Y	1617	C137R	1617	C150E(TRANS)	2030	C156K	2016	C166H	1617
C118A(TRANS)	2030	C123B	2030	C132(2S)	1617	C137X	1617	C150F	2030	C156L	2016	C166J	1617
C118B(TRANS)	2030	C123C	2030	C132A	1617	C137Y	1617	C150G	2030	C156M(TRANS)	2016	C166K	1617
C118C(TRANS)	2030	C123D	2030	C132B	1617	C138	1617	C150GN	2030	C156OR	2016	C166L	1617
C118D(TRANS)	2030	C123E	2030	C132C	1617	C138A(2S)	1617	C150H	2030	C156R	2016	C166M	1617
C118E(TRANS)	2030	C123F	2030	C132D	1617	C138B	1617	C150J	2030	C156X	2016	C166OR	1617
C118F(TRANS)	2030	C123G	2030	C132E	1617	C138C	1617	C150K	2030	C156Y	2016	C166R	1617
C118G	2030	C123GN	2030	C132F	1617	C138D	1617	C150L	2030	C157(2S)	1617	C166X	1617
C118GN	2030	C123H	2030	C132G	1617	C138E	1617	C150M(TRANS)	2030	C157A(TRANS)	1617	C166Y	1617
C118H	2030	C123J	2030	C132GN	1617	C138F	1617	C150OR	2030	C157B(TRANS)	1617	C167(2S)	1617
C118J	2030	C123K	2030	C132H	1617	C138G	1617	C150R	2030	C157C(TRANS)	1617	C167A	1617
C118L	2030	C123L	2030	C132J	1617	C138GN	1617	C150T	2030	C157D(TRANS)	1617	C167B	1617
C118M(TRANS)	2030	C123M	2030	C132K	1617	C138H	1617	C150T(2S)	2030	C157E(TRANS)	1617	C167C	1617
C118OR	2030	C123OR	2030	C132L	1617	C138J	1617	C150X	2030	C157F	1617	C167D	1617
C118R	2030	C123R	2030	C132M	1617	C138L	1617	C150Y	2030	C157G(TRANS)	1617	C167E	1617
C118X	2030	C123X	2030	C132OR	1617	C138M	1617	C151(2S)	1617	C157GN	1617	C167F	1617
C118Y	2030	C123Y	2030	C132R	1617	C138OR	1617	C151A	1617	C157J	1617	C167G	1617

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
C167GN	1617	C186D	2016	C191A	1617	C196(2S)	1617	C201L	1617	C208C	2016	C217(2S)	2030
C167H	1617	C186E	2016	C191B	1617	C196A	1617	C201M	1617	C208D	2016	C217A	2030
C167K	1617	C186F	2016	C191C	1617	C196B	1617	C201R	1617	C208E	2016	C217B	2030
C167L	1617	C186G	2016	C191D	1617	C196C	1617	C201X	1617	C208F	2016	C217C	2030
C167M	1617	C186GN	2016	C191E	1617	C196D	1617	C201Y	1617	C208G	2016	C217D	2030
C167OR	1617	C186H	2016	C191F	1617	C196E	1617	C202(2S)	1617	C208GN	2016	C217E	2030
C167X	1617	C186J	2016	C191G	1617	C196F	1617	C202A	1617	C208H	2016	C217F	2030
C167Y	1617	C186K	2016	C191GN	1617	C196G	1617	C202B	1617	C208J	2016	C217G	2030
C168	2009	C186L	2016	C191H	1617	C196GN	1617	C202C	1617	C208K	2016	C217GN	2030
C169(2S)	1617	C186M	2016	C191J	1617	C196H	1617	C202D	1617	C208L	2016	C217H	2030
C170(2S)	1617	C186OR	2016	C191K	1617	C196J	1617	C202E	1617	C208M	2016	C217J	2030
C170A	1617	C186R	2016	C191L	1617	C196K	1617	C202F	1617	C208OR	2016	C217K	2030
C170B	1617	C186X	2016	C191M	1617	C196L	1617	C202G	1617	C208R	2016	C217L	2030
C170C	1617	C186Y	2016	C191OR	1617	C196M	1617	C202GN	1617	C208X	2016	C217M	2030
C170D	1617	C187(2S)	2016	C191R	1617	C196OR	1617	C202H	1617	C208Y	2016	C217OR	2030
C170E	1617	C187-OR	2016	C191X	1617	C196R	1617	C202J	1617	C210	2030	C217R	2030
C170F	1617	C187A	2016	C191Y	1617	C196X	1617	C202K	1617	C210(2S)	2030	C217X	2030
C170G	1617	C187B	2016	C192(2S)	1617	C196Y	1617	C202L	1617	C210A	2030	C217Y	2030
C170GN	1617	C187C	2016	C192A	1617	C197(2S)	1617	C202M	1617	C210B	2030	C218(2S)	2030
C170H	1617	C187D	2016	C192B	1617	C197A	1617	C202OR	1617	C210C	2030	C218A(2S)	2030
C170J	1617	C187E	2016	C192C	1617	C197B	1617	C202R	1617	C210D	2030	C218B	2030
C170K	1617	C187F	2016	C192D	1617	C197C	1617	C202X	1617	C210E	2030	C218C	2030
C170L	1617	C187G	2016	C192E	1617	C197D	1617	C202Y	1617	C210F	2030	C218D	2030
C170M	1617	C187H	2016	C192F	1617	C197E	1617	C203A	1067	C210G	2030	C218E	2030
C170OR	1617	C187I	2016	C192G	1617	C197F	1617	C203B	1067	C210GN	2030	C218F	2030
C170R	1617	C187J	2016	C192GN	1617	C197G	1617	C203C	1020	C210H	2030	C218G	2030
C170X	1617	C187K	2016	C192H	1617	C197GN	1617	C203D	1020	C210J	2030	C218GN	2030
C170Y	1617	C187L	2016	C192J	1617	C197H	1617	C203Y	1067	C210K	2030	C218H	2030
C171(2S)	1617	C187M	2016	C192K	1617	C197J	1617	C203YY	1067	C210L	2030	C218J	2030
C171A	1617	C187OR	2016	C192L	1617	C197K	1617	C204(2S)	1617	C210M	2030	C218L	2030
C171B	1617	C187R	2016	C192M	1617	C197L	1617	C204A	1617	C210OR	2030	C218M	2030
C171C	1617	C187X	2016	C192OR	1617	C197M	1617	C204B	1617	C210R	2030	C218OR	2030
C171D	1617	C187Y	2016	C192R	1617	C197OR	1617	C204C	1617	C210X	2030	C218R	2030
C171E	1617	C188(2S)	2030	C192X	1617	C197R	1617	C204D	1617	C210Y	2030	C218X	2030
C171F	1617	C188A(2S)	2030	C192Y	1617	C197X	1617	C204E	1617	C211(2S)	2030	C218Y	2030
C171G	1617	C188AB(2S)	2030	C193(2S)	1617	C197Y	1617	C204F	1617	C211A	2030	C219	2016
C171GN	1617	C188B	2030	C193A	1617	C198(2S)	2041	C204G	1617	C211B	2030	C220(2S)	2030
C171H	1617	C188C	2030	C193B	1617	C198A	2041	C204GN	1617	C211C	2030	C220A(TRANS)	2030
C171J	1617	C188D	2030	C193C	1617	C198H	2041	C204H	1617	C211D	2030	C220B(TRANS)	2030
C171K	1617	C188E	2030	C193D	1617	C199(2S)	1617	C204J	1617	C211F	2030	C220C(TRANS)	2030
C171L	1617	C188F	2030	C193E	1617	C199A	1617	C204K	1617	C211G	2030	C220D(TRANS)	2030
C171M	1617	C188G	2030	C193F	1617	C199B	1617	C204L	1617	C211GN	2030	C220E(TRANS)	2030
C171OR	1617	C188GN	2030	C193G	1617	C199C	1617	C204M	1617	C211H	2030	C220F(TRANS)	2030
C171R	1617	C188J	2030	C193GN	1617	C199D	1617	C204OR	1617	C211J	2030	C220G	2030
C171X	1617	C188K	2030	C193H	1617	C199E	1617	C204R	1617	C211K	2030	C220GN	2030
C171Y	1617	C188L	2030	C193J	1617	C199F	1617	C204X	1617	C211L	2030	C220H	2030
C172(2S)	1617	C188M	2030	C193K	1617	C199G	1617	C204Y	1617	C211M	2030	C220K	2030
C172A(2S)	1617	C188OR	2030	C193L	1617	C199GN	1617	C205(2S)	1617	C211OR	2030	C220L	2030
C172B	1617	C188R	2030	C193M	1617	C199H	1617	C205A(TRANS)	1617	C211R	2030	C220M(TRANS)	2030
C172C	1617	C188X	2030	C193OR	1617	C199J	1617	C205B(TRANS)	1617	C211X	2030	C220OR	2030
C172D	1617	C188Y	2030	C193R	1617	C199K	1617	C205C(TRANS)	1617	C211Y	2030	C220R	2030
C172E	1617	C189(2S)	2030	C193X	1617	C199L	1617	C205D(TRANS)	1617	C212(2S)	2030	C220X	2030
C172F	1617	C189A	2030	C194(2S)	1617	C199M	1617	C205F	1617	C212A	2030	C220Y	2030
C172G	1617	C189B	2030	C194A	1617	C199OR	1617	C205G	1617	C212B	2030	C221(2S)	2030
C172GN	1617	C189C	2030	C194B	1617	C199R	1617	C205GN	1617	C212C	2030	C221A	2030
C172H	1617	C189D	2030	C194C	1617	C199X	1617	C205H	1617	C212D	2030	C221B	2030
C172J	1617	C189E	2030	C194D	1617	C199Y	1617	C205J	1617	C212E	2030	C221C	2030
C172K	1617	C189F	2030	C194E	1617	C200	1617	C205K	1617	C212F	2030	C221D	2030
C172L	1617	C189G	2030	C194F	1617	C200A	1617	C205L	1617	C212G	2030	C221E	2030
C172M	1617	C189GN	2030	C194G	1617	C200B	1617	C205M	1617	C212GN	2030	C221F	2030
C172OR	1617	C189H	2030	C194GN	1617	C200C	1617	C205OR	1617	C212H	2030	C221G	2030
C172R	1617	C189J	2030	C194H	1617	C200D	1617	C205	1617	C212J	2030	C221GN	2030
C172Y	1617	C189K	2030	C194J	1617	C200E	1617	C205X	1617	C212K	2030	C221H	2030
C174(2S)	1617	C189L	2030	C194K	1617	C200F	1617	C205Y(TRANS)	1617	C212L	2030	C221J	2030
C174A(2S)	1617	C189M	2030	C194L	1617	C200G	1617	C206(2S)	2016	C212M	2030	C221K	2030
C174B	1617	C189OR	2030	C194M	1617	C200GN	1617	C206-OR	2016	C212OR	2030	C221L	2030
C174C	1617	C189R	2030	C194OR	1617	C200H	1617	C206A	2016	C212R	2030	C221M	2030
C174D	1617	C189X	2030	C194X	1617	C200J	1617	C206B	2016	C212X	2030	C221OR	2030
C174E	1617	C189Y	2030	C194Y	1617	C200K	1617	C206C	2016	C212Y	2030	C221R	2030
C174F	1617	C190(2S)	2030	C195(2S)	1617	C200L	1617	C206D	2016	C216(2S)	2030	C221X	2030
C174G	1617	C190A	2030	C195A	1617	C200M	1617	C206E	2016	C216A	2030	C221Y	2030
C174GN	1617	C190B	2030	C195B	1617	C200OR	1617	C206G	2016	C216B	2030	C222(2S)	2030
C174H	1617	C190C	2030	C195C	1617	C200R	1617	C206GN	2016	C216C	2030	C222A(TRANS)	2030
C174J	1617	C190D	2030	C195D	1617	C200X	1617	C206H	2016	C216D	2030	C222B(TRANS)	2030
C174K	1617	C190E	2030	C195E	1617	C200Y	1617	C206J	2016	C216E	2030	C222C(TRANS)	2030
C174L	1617	C190F	2030	C195F	1617	C201(2S)	1617	C206K	2016	C216F	2030	C222D(TRANS)	2030
C174M	1617	C190GN	2030	C195G	1617	C201A	1617	C206L	2016	C216G	2030	C222E(TRANS)	2030
C174OR	1617	C190H	2030	C195GN	1617	C201B	1617	C206M	2016	C216GN	2030	C222F(TRANS)	2030
C174Q	1617	C190J	2030	C195H	1617	C201C	1617	C206OR	2016	C216H	2030	C222G	2030
C174R	1617	C190K	2030	C195J	1617	C201D	1617	C206R	2016	C216J	2030	C222GN	2030
C174S	1617	C190L	2030	C195K	1617	C201E	1617	C206RED	2016	C216K	2030	C222H	2030
C174X	1617	C190M	2030	C195L	1617	C201F	1617	C206WHITE	2016	C216L	2030	C222J	2030
C174Y	1617	C190OR	2030	C195M	1617	C201G	1617	C206X	2016	C216M	2030	C222L	2030
C186(2S)	2016	C190R	2030	C195OR	1617	C201GN	1617	C206Y	2016	C216OR	2030	C222M(TRANS)	2030
C186A	2016	C190X	2030	C195R	1617	C201H	1617	C208(2S)	2016	C216R	2030	C222OR	2030
C186B	2016	C190Y	2030	C195X	1617	C201J	1617	C208A	2016	C216X	2030	C222R	2030
C186C	2016	C191(2S)	1617	C195Y	1617	C201K	1617	C208B	2016	C216Y	2030	C222X	2030

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C222Y	2030	C234R	2030	C240L	2041	C249L	2030	C269C	2016	C282GN	1617	C295	2009
C225(2S)	2030	C234X	2030	C240M	2041	C249M	2030	C269D	2016	C282H(2S)	1617	C296(2S)	2020
C225A	2030	C234Y	2030	C240OR	2041	C249OR	2030	C269E	2016	C282J	1617	C297	2017
C225B	2030	C236(2S)	2030	C240R	2041	C249R	2030	C269F	2016	C282K	1617	C300(2S)	1617
C225C	2030	C236A	2030	C240X	2041	C249X	2030	C269G	2016	C282L	1617	C300A	1617
C225D	2030	C236B	2030	C240Y	2041	C249Y	2030	C269GN	2016	C282M(TRANS)	1617	C300B	1617
C225E	2030	C236C	2030	C241(2S)	2041	C250(2S)	1617	C269H	2016	C282OR	1617	C300C	1617
C225F	2030	C236D	2030	C241A	2041	C250A	1617	C269J	2016	C282R	1617	C300D	1617
C225G	2030	C236E	2030	C241B	2041	C250B	1617	C269K	2016	C282X	1617	C300E	1617
C225GN	2030	C236F	2030	C241C	2041	C250C	1617	C269L	2016	C282Y	1617	C300F	1617
C225H	2030	C236G	2030	C241D	2041	C250D	1617	C269M	2016	C283A	1617	C300G	1617
C225J	2030	C236GN	2030	C241E	2041	C250E	1617	C269OR	2016	C283B	1617	C300GN	1617
C225L	2030	C236H	2030	C241F	2041	C250F	1617	C269R	2016	C283C	1617	C300H	1617
C225M	2030	C236J	2030	C241G	2041	C250G	1617	C269X	2016	C284(2S)	1617	C300J	1617
C225OR	2030	C236K	2030	C241GN	2041	C250GN	1617	C269Y	2016	C284A	1617	C300K	1617
C225R	2030	C236L	2030	C241H	2041	C250H	1617	C271(2S)	2016	C284B	1617	C300L	1617
C225X	2030	C236M	2030	C241K	2041	C250J	1617	C271A	2016	C284C	1617	C300M	1617
C225Y	2030	C236OR	2030	C241L	2041	C250K	1617	C271B	2016	C284D	1617	C300OR	1617
C226(2S)	2030	C236R	2030	C241M	2041	C250L	1617	C271C	2016	C284E	1617	C300R	1617
C226A	2030	C236X	2030	C241OR	2041	C250M	1617	C271D	2016	C284F	1617	C300X	1617
C226B	2030	C236Y	2030	C241R	2041	C250OR	1617	C271E	2016	C284G	1617	C300Y	1617
C226C	2030	C237(2S)	1617	C241X	2041	C250R	1617	C271F	2016	C284GN	1617	C301	1617
C226D	2030	C237A	1617	C241Y	2041	C250X	1617	C271G	2016	C284M(2S)	1617	C301(2S)	1617
C226E	2030	C237B	1617	C242(2S)	2041	C250Y	1617	C271GN	2016	C284J	1617	C301A(2S)	1617
C226F	2030	C237C	1617	C242A	2041	C254(2S)	2030	C271H	2016	C284K	1617	C301B	1617
C226G	2030	C237D	1617	C242B	2041	C255	2030	C271J	2016	C284L	1617	C301C	1617
C226GN	2030	C237E	1617	C242C	2041	C256	2030	C271K	2016	C284M	1617	C301D	1617
C226H	2030	C237F	1617	C242D	2041	C263(2S)	2016	C271L	2016	C284OR	1617	C301E	1617
C226J	2030	C237G	1617	C242E	2041	C263A	2016	C271M	2016	C284R	1617	C301F	1617
C226K	2030	C237GN	1617	C242F	2041	C263B	2016	C271OR	2016	C284X	1617	C301G	1617
C226L	2030	C237H	1617	C242G	2041	C263C	2016	C271R	2016	C284Y	1617	C301GN	1617
C226M	2030	C237J	1617	C242GN	2041	C263D	2016	C271X	2016	C286	2016	C301H	1617
C226OR	2030	C237K	1617	C242H	2041	C263E	2016	C271Y	2016	C286A(TRANS)	2016	C301J	1617
C226R	2030	C237L	1617	C242J	2041	C263F	2016	C272(2S)	2016	C286B	2016	C301K	1617
C226X	2030	C237M	1617	C242K	2041	C263G	2016	C272A	2016	C286B(TRANS)	2016	C301L	1617
C226Y	2030	C237OR	1617	C242L	2041	C263GN	2016	C272B	2016	C286C(TRANS)	2016	C301M	1617
C227(2S)	2030	C237R	1617	C242M	2041	C263H	2016	C272C	2016	C286D(TRANS)	2016	C301OR	1617
C227A	2030	C237X	1617	C242OR	2041	C263J	2016	C272D	2016	C286E	2016	C301R	1617
C227B	2030	C237Y	1617	C242R	2041	C263K	2016	C272E	2016	C286E(TRANS)	2016	C301X	1617
C227C	2030	C238(2S)	1617	C242X	2041	C263L	2016	C272F	2016	C286F	2016	C301Y	1617
C227D	2030	C238A	1617	C242Y	2041	C263M	2016	C272G	2016	C286G	2016	C302(2S)	1617
C227E	2030	C238B	1617	C243(2S)	2041	C263OR	2016	C272GN	2016	C286GN	2016	C302A	1617
C227F	2030	C238C	1617	C247(2S)	2030	C263R	2016	C272H	2016	C286H	2016	C302B	1617
C227G	2030	C238D	1617	C247A	2030	C263X	2016	C272J	2016	C286J	2016	C302C	1617
C227GN	2030	C238E	1617	C247B	2030	C263Y	2016	C272K	2016	C286K	2016	C302D	1617
C227H	2030	C238F	1617	C247C	2030	C264	2009	C272L	2016	C286L	2016	C302E	1617
C227J	2030	C238G	1617	C247D	2030	C265	2009	C272M	2016	C286M(TRANS)	2016	C302F	1617
C227K	2030	C238GN	1617	C247E	2030	C267(2S)	1617	C272OR	2016	C286OR	2016	C302G	1617
C227L	2030	C238H	1617	C247F	2030	C267A(2S)	1617	C272R	2016	C286R	2016	C302GN	1617
C227M	2030	C238J	1617	C247G	2030	C267B	1617	C272X	2016	C286X	2016	C302H	1617
C227OR	2030	C238K	1617	C247GN	2030	C267C	1617	C272Y	2016	C286Y	2016	C302J	1617
C227R	2030	C238L	1617	C247H	2030	C267D	1617	C280	2016	C289(2S)	2016	C302K	1617
C227X	2030	C238M	1617	C247J	2030	C267E	1617	C280AO	2009	C289A	2016	C302L	1617
C227Y	2030	C238OR	1617	C247L	2030	C267F	1617	C281(2S)	2009	C289B	2016	C302M	1617
C228(2S)	2030	C238R	1617	C247M	2030	C267G	1617	C281-OR	2009	C289C	2016	C302OR	1617
C228A(TRANS)	2030	C238X	1617	C247OR	2030	C267GN	1617	C281A(2S)	2009	C289D	2016	C302R	1617
C228B(TRANS)	2030	C238Y	1617	C247R	2030	C267H	1617	C281B(2S)	2009	C289E	2016	C302X	1617
C228C(TRANS)	2030	C239(2S)	1617	C247X	2030	C267J	1617	C281BL	2009	C289F	2016	C302Y	1617
C228D(TRANS)	2030	C239A	1617	C247Y	2030	C267K	1617	C281C(2S)	2009	C289G	2016	C306(2S)	2030
C228E(TRANS)	2030	C239B	1617	C248(2S)	1617	C267L	1617	C281C-EP(2S)	2009	C289GN	2016	C306A	2030
C228F(TRANS)	2030	C239C	1617	C248A	1617	C267M	1617	C281D(2S)	2009	C289H	2016	C306B	2030
C228G	2030	C239D	1617	C248B	1617	C267OR	1617	C281E	2009	C289J	2016	C306C	2030
C228GN	2030	C239E	1617	C248C	1617	C267R	1617	C281EP(2S)	2009	C289K	2016	C306D	2030
C228H	2030	C239F	1617	C248D	1617	C267X	1617	C281F	2009	C289L	2016	C306E	2030
C228J	2030	C239G	1617	C248E	1617	C267Y	1617	C281G	2009	C289M	2016	C306F	2030
C228K	2030	C239GN	1617	C248F	1617	C268(2S)	2030	C281GN	2009	C289OR	2016	C306G	2030
C228L	2030	C239H	1617	C248G	1617	C268-OR	2030	C281H(2S)	2009	C289R	2016	C306GN	2030
C228M(TRANS)	2030	C239J	1617	C248J	1617	C268A(2S)	2030	C281HB	1617	C289X	2016	C306H	2030
C228OR	2030	C239K	1617	C248K	1617	C268B	2030	C281J	2009	C289Y	2016	C306J	2030
C228R	2030	C239L	1617	C248L	1617	C268C	2030	C281K	2009	C291	2030	C306K	2030
C228X	2030	C239M	1617	C248M	1617	C268D	2030	C281L	2009	C291A(TRANS)	2030	C306L	2030
C228Y	2030	C239OR	1617	C248OR	1617	C268E	2030	C281M	2009	C291B(TRANS)	2030	C306M	2030
C234(2S)	2030	C239R	1617	C248R	1617	C268F	2030	C281OR	2009	C291C(TRANS)	2030	C306OR	2030
C234A(TRANS)	2030	C239X	1617	C248X	1617	C268G	2030	C281R	2009	C291D	2030	C306R	2030
C234B(TRANS)	2030	C239Y	1617	C248Y	1617	C268GN	2030	C281X	2009	C291D(TRANS)	2030	C306X	2030
C234C(TRANS)	2030	C240(2S)	2041	C249(2S)	2030	C268H	2030	C281Y	2009	C291E(TRANS)	2030	C306Y	2030
C234D(TRANS)	2030	C240A	2041	C249A	2030	C268J	2030	C282(2S)	1617	C291F(TRANS)	2030	C307(2S)	2030
C234E(TRANS)	2030	C240B	2041	C249B	2030	C268K	2030	C282A	1617	C291G(TRANS)	2030	C307-OR	2030
C234F(TRANS)	2030	C240C	2041	C249C	2030	C268L	2030	C282A(TRANS)	1617	C291GN	2030	C307A	2030
C234G	2030	C240D	2041	C249D	2030	C268M	2030	C282B	1617	C291H(TRANS)	2030	C307B	2030
C234GN	2030	C240E	2041	C249E	2030	C268OR	2030	C282B(TRANS)	1617	C291J(TRANS)	2030	C307C	2030
C234H	2030	C240F	2041	C249F	2030	C268R	2030	C282C	1617	C291K	2030	C307D	2030
C234J	2030	C240G	2041	C249G	2030	C268X	2030	C282C(TRANS)	1617	C291M(TRANS)	2030	C307E	2030
C234K	2030	C240GN	2041	C249GN	2030	C268Y	2030	C282D(TRANS)	1617	C291OR	2030	C307F	2030
C234L	2030	C240H	2041	C249H	2030	C269(2S)	2016	C282E(TRANS)	1617	C291R	2030	C307G	2030
C234M(TRANS)	2030	C240J	2041	C249J	2030	C269A	2016	C282F	1617	C291X	2030	C307GN	2030
C234OR	2030	C240K	2041	C249K	2030	C269B	2016	C282G	1617	C291Y	2030	C307H	2030

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C107J	2030	C115F	1617	C121Y	1617	C350L	1617	C360D(2S)	1617	C3650R	2009	C370G(2S)	2009
C107K	2030	C115G	1617	C122	2009	C350W(TRANS)	1617	C360E	1617	C366X	2009	C370H	2009
C107L	2030	C115M	1617	C123(2S)	1617	C350OR	1617	C360F	1617	C367	2009	C370H(2S)	2009
C107M	2030	C115H	1617	C123A	1617	C350R	1617	C360G	1617	C367-O	2009	C37U	2009
C107OR	2030	C115J	1617	C123B	1617	C350K	1617	C360GN	1617	C367-R	2009	C37G(2S)	2009
C107R	2030	C115K	1617	C123C	1617	C350Y	1617	C360H	1617	C367-Y	2009	C37OK(2S)	2009
C107X	2030	C115L	1617	C123D	1617	C351(2S)	2016	C360J	1617	C367A	2009	C37OL	2009
C107Y	2030	C115M	1617	C123E	1617	C351A	2016	C360K	1617	C367B	2009	C37OM	2009
C108	2030	C115OR	1617	C123F	1617	C351B	2016	C360L	1617	C367C	2009	C37OOR	2009
C108A	2030	C115R	1617	C123G	1617	C351C	2016	C360M	1617	C367D	2009	C37OR	2009
C108B	2030	C115X	1617	C123GN	1617	C351D	2016	C360N	1617	C367E	2009	C37OX	2009
C108C	2030	C115Y	1617	C123H	1617	C351E	2016	C360R	1617	C367F	2009	C37OY	2009
C108D	2030	C116(2S)	1617	C123I	1617	C351F	2016	C360X	1617	C367G	2009	C371(2S)	2009
C108E	2030	C116A	1617	C123K	1617	C351FA1	2016	C360Y	1617	C367GN	2009	C371-0(2S)	2009
C108F	2030	C116B	1617	C123L	1617	C351G	2016	C361(2S)	2009	C367G-O	2009	C371-O(2S)	2009
C108G	2030	C116C	1617	C123M	1617	C351GN	2016	C361A	2009	C367G-R	2009	C371-OR	2009
C108GN	2030	C116D	1617	C123OR	1617	C351H	2016	C361B	2009	C367G-Y	2009	C371-R(2S)	2009
C108H	2030	C116E	1617	C123R	1617	C351J	2016	C361C	2009	C367H	2009	C371-T	2009
C108J	2030	C116F	1617	C123X	1617	C351K	2016	C361D	2009	C367J	2009	C371A	2009
C108K	2030	C116G	1617	C123Y	1617	C351L	2016	C361E	2009	C367K	2009	C371B(2S)	2009
C108L	2030	C116N	1617	C124(2S)	1617	C351M	2016	C361F	2009	C367L	2009	C371C	2009
C108M	2030	C116M	1617	C124A(2S)	1617	C351O	2016	C361G	2009	C367M	2009	C371D	2009
C108OR	2030	C116K	1617	C124B	1617	C351R	2016	C361GN	2009	C367OR	2009	C371E	2009
C108R	2030	C116J	1617	C124C	1617	C351X	2016	C361H	2009	C367R	2009	C371F	2009
C108S	2030	C116L	1617	C124D	1617	C351Y	2016	C361J	2009	C367T	2009	C371G(2S)	2009
C108Y	2030	C116M	1617	C124E	1617	C352	2009	C361K	2009	C367Y	2009	C371GN	2009
C109(2S)	2030	C116OR	1617	C124F	1617	C352-OR	2009	C361L	2009	C368(2S)	2016	C371G-O	2009
C109A	2030	C116R	1617	C124G	1617	C352A	2009	C361M	2009	C368-BL	2016	C371G-R	2009
C109B	2030	C116X	1617	C124GN	1617	C352AC	2009	C361OR	2009	C368-GR	2016	C371H	2009
C109C	2030	C116Y	1617	C124H(2S)	1617	C352B	2009	C361R	2009	C368A	2016	C371J	2009
C109D	2030	C117(2S)	1617	C124HA(2S)	1617	C352C	2009	C361T	2009	C368B	2016	C371K	2009
C109E	2030	C117A	1617	C124I	1617	C352D	2009	C361Y	2009	C368C	2016	C371L	2009
C109F	2030	C117B	1617	C124K	1617	C352E	2009	C362(2S)	2009	C368D	2016	C371M	2009
C109G	2030	C117C(2S)	1617	C124L	1617	C352F	2009	C362A	2009	C368E	2016	C371O	2009
C109GN	2030	C117D	1617	C124M	1617	C352G	2009	C362B	2009	C368F	2016	C371OR	2009
C109H	2030	C117E	1617	C124OR	1617	C352GN	2009	C362C	2009	C368G	2016	C371R(2S)	2009
C109J	2030	C117F	1617	C124R	1617	C352H	2009	C362D	2009	C368GN	2016	C371R-1	2009
C109K	2030	C117G	1617	C124X	1617	C352J	2009	C362E	2009	C368H	2016	C371RED-G	2009
C109L	2030	C117GN	1617	C124Y	1617	C352K	2009	C362F	2009	C368J	2016	C371T	2009
C109M	2030	C117H	1617	C127(EUROPE)	2023	C352L	2009	C362G	2009	C368K	2016	C371X	2009
C109OR	2030	C117J	1617	C128(EUROPE)	2023	C352M	2009	C362GN	2009	C368L	2016	C371Y	2009
C109R	2030	C117K	1617	C32	2009	C352O	2009	C362H	2009	C368M	2016	C372	2009
C109X	2030	C117M	1617	C323	1617	C352R	2009	C362J	2009	C368OR	2016	C372A	2009
C109Y	2030	C117N	1617	C324	1617	C352X	2009	C362K	2009	C368R	2016	C372-0(2S)	2009
C110(2S)	2030	C117OR	1617	C325(2S)	2009	C352Y	2009	C362L	2009	C368V(2S)	2016	C372-1(2S)	2009
C110A	2030	C117R	1617	C326	1617	C353(2S)	2030	C362M	2009	C368X	2016	C372-2(2S)	2009
C110B	2030	C117X	1617	C327	1617	C353A(2S)	2030	C362OR	2009	C368Y	2016	C372-O(2S)	2009
C110C	2030	C117Y	1617	C328	1617	C353AC	2030	C362R	2009	C369(2S)	2016	C372-OR	2009
C110D	2030	C118	1617	C328(EUROPE)	2009	C353B	2030	C362X	2009	C369-BL	2016	C372-ORG	2009
C110E	2030	C118A(2S)	1617	C329	2009	C353C	2030	C362Y	2009	C369-GR	2016	C372-Y(2S)	2009
C110F	2030	C118AB	1617	C32	2009	C353D	2030	C363(2S)	1617	C369-V	2016	C372A	2009
C110G	2030	C118B	1617	C323	1617	C353E	2030	C363-OR	1617	C369A	2016	C372A	2009
C110H	2030	C118C	1617	C324	2016	C353F	2030	C363A	1617	C369B	2016	C372B	2009
C110M	2030	C118D	1617	C324Y	2016	C353G	2030	C363B	1617	C369BL(2S)	2016	C372C	2009
C110R	2030	C118E	1617	C324	1617	C353H	2030	C363C	1617	C369C	2016	C372D	2009
C110S	2030	C118F	1617	C327	1617	C353H	2030	C363D	1617	C369D	2016	C372E	2009
C110T	2030	C118G	1617	C328(2S)	1617	C353J	2030	C363E	1617	C369E	2016	C372F	2009
C110M	2030	C118GN	1617	C328A	1617	C353K	2030	C363F	1617	C369F	2016	C372G	2009
C110OR	2030	C118H	1617	C328B	1617	C353L	2030	C363G	1617	C369G(2S)	2016	C372GN	2009
C110R	2030	C118J	1617	C328C	1617	C353M	2030	C363GN	1617	C369G-BL(2S)	2016	C372G-O	2009
C110S	2030	C118K	1617	C328D	1617	C353OR	2030	C363H	1617	C369GBL(2S)	2016	C372G-Y	2009
C110T	2030	C118L	1617	C328E	1617	C353R	2030	C363J	1617	C369G-GR(2S)	2016	C372I	2009
C110Y	2030	C118M	1617	C328F	1617	C353X	2030	C363K	1617	C369GG(2S)	2016	C372J	2009
C111-OR	2016	C118OR	1617	C328G	1617	C353Y	2030	C363L	1617	C369GN	2016	C372L	2009
C112A	2016	C118R	1617	C328GN	1617	C354(2S)	2009	C363M	1617	C369GR(2S)	2016	C372M	2009
C113B	2016	C118X	1617	C328H	1617	C356A	2009	C363OR	1617	C369G-V(2S)	2016	C372O	2009
C113C(2S)	2016	C118Y	1617	C328I	1617	C356B	2009	C363R	1617	C369H	2016	C372OR	2009
C113D	2016	C119	1617	C328J	1617	C356C	2009	C363X	1617	C369J	2016	C372R	2009
C113E	2016	C119A	1617	C328L	1617	C356D	2009	C363Y	1617	C369K	2016	C372X	2009
C113F	2016	C119B	1617	C328M	1617	C356E	2009	C366(2S)	2009	C369L	2016	C372Y(2S)	2009
C113G	2016	C119C	1617	C328OR	1617	C356F	2009	C366-O	2009	C369M	2016	C372Y1	2009
C113GN	2016	C119D	1617	C328X	1617	C356G	2009	C366A	2009	C369OR	2016	C372Y2	2009
C113H(2S)	2016	C119E	1617	C328Y	1617	C356GN	2009	C366B	2009	C369R	2016	C372YFL-G	2009
C113J	2016	C119F	1617	C329	2016	C356H	2009	C366C	2009	C369V(2S)	2016	C372Z	2009
C113K	2016	C119G	1617	C329R	2016	C356J	2009	C366D	2009	C369X	2016	C373(2S)	2009
C113L	2016	C119GN	1617	C350	1617	C356K	2009	C366E	2009	C369Y	2016	C373-O	2009
C113M	2016	C119HA(2S)	1617	C350A(TRANS)	1617	C356L	2009	C366F	2009	C370(2S)	2009	C373-1A	2009
C113CR	2016	C119HA(2S)	1617	C350B(TRANS)	1617	C356M	2009	C366G	2009	C370-G	2009	C373-G	2009
C113R	2016	C119HB(2S)	1617	C350C(TRANS)	1617	C356OR	2009	C366GN	2009	C370-G	2009	C373-O	2009
C113X	2016	C119HC(2S)	1617	C350D(TRANS)	1617	C356R	2009	C366G-O	2009	C370-O	2009	C373-OR	2009
C113Y	2016	C119I	1617	C350E(TRANS)	1617	C356X	2009	C366G-R	2009	C370-T	2009	C373A	2009
C114(2S)	1417	C119K	1617	C350F	1617	C356Y	2009	C366G-Y	2009	C370A	2009	C373AL	2009
C114A	1417	C119L	1617	C350G	1617	C360(2S)	1617	C366H	2009	C370B	2009	C373B	2009
C114B	1417	C119M	1617	C350GN	1617	C360-OR	1617	C366J	2009	C370C	2009	C373C	2009
C114C	1417	C119N	1617	C350H(2S)	1617	C360A	1617	C366K	2009	C370D	2009	C373D	2009
C114D	1417	C119R	1617	C350J	1617	C360B	1617	C366L	2009	C370E	2009	C373E	2009
C114E	1417	C119X	1617	C350K	1617	C360C	1617	C366M	2009	C370F(2S)	2009	C373F	2009

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C373G	2009	C377BRN	2009	C380D(TRANS)	2009	C382W	2009	C387AG	2016	C391Y	2009	C398G	2009
C373GN	2009	C377C	2009	C380D-Y	2009	C382X	2009	C387B	2016	C393	2009	C398GN	2009
C373GR(2S)	2009	C377D	2009	C380DY	2009	C382Y	2009	C387C	2016	C394(2S)	2009	C398H	2009
C373H	2009	C377E(TRANS)	2009	C380E(TRANS)	2009	C383(2S)	2009	C387D	2016	C394-O(2S)	2009	C398J	2009
C373J	2009	C377F	2009	C380E-Y	2009	C383-OR	2009	C387E(TRANS)	2016	C394-GR	2009	C398K	2009
C373K	2009	C377G	2009	C380EY	2009	C383A	2009	C387F	2016	C394-GRN	2009	C398L	2009
C373L	2009	C377GN	2009	C380F	2009	C383B	2009	C387FA3	2016	C394-O(2S)	2009	C398M(TRANS)	2009
C373M	2009	C377H	2009	C380F-Y	2009	C383C	2009	C387G(2S)	2016	C394-OR	2009	C398OR	2009
C373OR	2009	C377J	2009	C380FY	2009	C383D	2009	C387GN	2016	C394-ORG	2009	C398R	2009
C373R	2009	C377K	2009	C380G	2009	C383E	2009	C387H	2016	C394-R	2009	C398X	2009
C373W(2S)	2009	C377L	2009	C380GN	2009	C383F	2009	C387J	2016	C394-RED	2009	C398Y	2009
C373X	2009	C377M(TRANS)	2009	C380H	2009	C383G(2S)	2009	C387K	2016	C394-Y	2009	C399(2S)	2009
C373Y	2009	C377O	2009	C380J	2009	C383GN	2009	C387L	2016	C394-YEL	2009	C399A	2009
C374(2S)	2016	C377OR	2009	C380K	2009	C383H	2009	C387M(TRANS)	2016	C394A(TRANS)	2009	C399B	2009
C374-BL(2S)	2016	C377R	2009	C380L	2009	C383J	2009	C387OR	2016	C394AP	2009	C399C	2009
C374-OR	2016	C377RED	2009	C380M(TRANS)	2009	C383K	2009	C387R	2016	C394B(TRANS)	2009	C399D	2009
C374-V(2S)	2016	C377X	2009	C380O	2009	C383L	2009	C387X	2016	C394C(TRANS)	2009	C399E	2009
C374A	2016	C377Y	2009	C380OR	2009	C383M	2009	C387Y	2016	C394D(TRANS)	2009	C399F	2009
C374B	2016	C378(2S)	2009	C380R(2S)	2009	C383OR	2009	C388(2S)	2009	C394E(TRANS)	2009	C399FA1	2009
C374BL	2016	C378-O	2009	C380RED	2009	C383R	2009	C388-O	2009	C394F	2009	C399G	2009
C374BLK	2016	C378-ORG	2009	C380T(TRANS)	2009	C383T(2S)	2009	C388-OR	2009	C394G	2009	C399GN	2009
C374C	2016	C378-R	2009	C380V	2009	C383TM	2009	C388A(2S)	2009	C394GN	2009	C399H	2009
C374D	2016	C378-RED	2009	C380X	2009	C383W(2S)	2009	C388A(JAPAN)	2009	C394GR(2S)	2009	C399J	2009
C374E	2016	C378-Y	2009	C380Y(2S)	2009	C383X	2009	C388A(KOREA)	2009	C394GRN	2009	C399K	2009
C374F	2016	C378-YEL	2009	C380YEL	2009	C383Y(2S)	2009	C388A-TM	2009	C394H	2009	C399L	2009
C374G	2016	C378A	2009	C381(2S)	2016	C384(2S)	2016	C388ATM	2009	C394J	2009	C399M	2009
C374GN	2016	C378B	2009	C381-O(2S)	2016	C384(O)	2016	C388ATMFA	2009	C394K	2009	C399OR	2009
C374H	2016	C378C	2009	C381-BN	2016	C384-O	2016	C388B	2009	C394L	2009	C399R	2009
C374J	2016	C378D	2009	C381-BRN	2016	C384A(TRANS)	2016	C388C	2009	C394M(TRANS)	2009	C399Y	2009
C374K	2016	C378E(TRANS)	2009	C381-O(2S)	2016	C384B(TRANS)	2016	C388D	2009	C394O	2009	C399Y	2009
C374L	2016	C378F	2009	C381-OR	2016	C384C(TRANS)	2016	C388E(TRANS)	2009	C394OR	2009	C400	1617
C374M	2016	C378G	2009	C381-ORG	2016	C384D(TRANS)	2016	C388F	2009	C394R(2S)	2009	C400(2S)	1617
C374OR	2016	C378GN	2009	C381-R(2S)	2016	C384E(TRANS)	2016	C388FA	2009	C394RED	2009	C400-O(2S)	1617
C374R	2016	C378H	2009	C381-RED	2016	C384F	2016	C388G	2009	C394W(2S)	2009	C400-GR(2S)	1617
C374V	2016	C378J	2009	C381A	2016	C384G	2016	C388GN	2009	C394X	2009	C400-O	1617
C374X	2016	C378K	2009	C381B	2016	C384GN	2016	C388H	2009	C394Y(2S)	2009	C400-R(2S)	1617
C374Y	2016	C378L	2009	C381BN(2S)	2016	C384H	2016	C388J	2009	C394YEL	2009	C400-Y(2S)	1617
C375(2S)	2016	C378M(TRANS)	2009	C381BN-1	2016	C384J	2016	C388K	2009	C395(2S)	1617	C400A	1617
C375-O(2S)	2016	C378O	2009	C381C	2016	C384K	2016	C388L	2009	C395A(TRANS)	1617	C400B	1617
C375-O(2S)	2016	C378OR	2009	C381D	2016	C384L	2016	C388M(TRANS)	2009	C395A-O	1617	C400C	1617
C375-Y(2S)	2016	C378R	2009	C381E	2016	C384M(TRANS)	2016	C388OR	2009	C395A-ORG	1617	C400D	1617
C375A	2016	C378X	2009	C381F	2016	C384OR	2016	C388R	2009	C395A-R	1617	C400E	1617
C375B	2016	C378Y	2009	C381G	2016	C384R	2016	C388TM	2009	C395A-RED	1617	C400F	1617
C375C	2016	C379(2S)	2009	C381GN	2016	C384X	2016	C388X	2009	C395A-Y	1617	C400G	1617
C375D	2016	C379A	2009	C381H	2016	C384Y(2S)	2016	C388Y	2009	C395A-YEL	1617	C400GN	1617
C375E	2016	C379B	2009	C381J	2016	C385	2016	C389(2S)	2016	C395B(TRANS)	1617	C400H	1617
C375F	2016	C379C	2009	C381K	2016	C385A(TRANS)	2016	C389-O	2016	C395C(TRANS)	1617	C400J	1617
C375G	2016	C379D	2009	C381L	2016	C385B(TRANS)	2016	C389-OR	2016	C395D(TRANS)	1617	C400K	1617
C375GN	2016	C379E	2009	C381M	2016	C385C(TRANS)	2016	C389A	2016	C395E(TRANS)	1617	C400L	1617
C375H	2016	C379F	2009	C381O	2016	C385D(TRANS)	2016	C389AFP	2016	C395F	1617	C400M	1617
C375J	2016	C379G	2009	C381OR	2016	C385E(TRANS)	2016	C389B	2016	C395G	1617	C400OR	1617
C375K	2016	C379GN	2009	C381R(2S)	2016	C385F	2016	C389BLB-O	2016	C395GN	1617	C400R	1617
C375L	2016	C379H	2009	C381RED	2016	C385G	2016	C389C	2016	C395H	1617	C400X	1617
C375M	2016	C379J	2009	C381RL	2016	C385GN	2016	C389D	2016	C395J	1617	C400Y	1617
C375OR	2016	C379K	2009	C381X	2016	C385H	2016	C389E	2016	C395K	1617	C401	2009
C375R	2016	C379L	2009	C381Y	2016	C385J	2016	C389F	2016	C395L	1617	C401(2S)	2009
C375X	2016	C379M	2009	C382(2S)	2009	C385K	2016	C389G	2016	C395M(TRANS)	1617	C401A	2009
C376(2S)	2009	C379OR	2009	C382-G	2009	C385L	2016	C389GN	2016	C395OR	1617	C401B	2009
C376A	2009	C379R	2009	C382-GR(2S)	2009	C385M(TRANS)	2016	C389H	2016	C395R(2S)	1617	C401C	2009
C376B	2009	C379X	2009	C382-GY	2009	C385OR	2016	C389J	2016	C395X	1617	C401D	2009
C376C	2009	C379Y	2009	C382-OR	2009	C385R	2016	C389K	2016	C395Y	1617	C401E	2009
C376D	2009	C380	2009	C382-R	2009	C385X	2016	C389L	2016	C397	2016	C401F	2009
C376E(TRANS)	2009	C380-O(2S)	2009	C382-V	2009	C385Y	2016	C389LP	2016	C397A	2016	C401G	2009
C376F	2009	C380-BRN	2009	C382A	2009	C386	2016	C389M	2016	C397B	2016	C401GN	2009
C376G	2009	C380-O(2S)	2009	C382B	2009	C386-O	2016	C389O	2016	C397C	2016	C401H	2009
C376GN	2009	C380-OR	2009	C382BK(2S)	2009	C386A	2016	C389OR	2016	C397D	2016	C401J	2009
C376H	2009	C380-ORG	2009	C382BK1	2009	C386AO	2016	C389P	2016	C397E(TRANS)	2016	C401K	2009
C376J	2009	C380-R	2009	C382BK2	2009	C386B	2016	C389R(2S)	2016	C397F	2016	C401L	2009
C376K	2009	C380-RED	2009	C382BL(2S)	2009	C386C	2016	C389X	2016	C397G	2016	C401M	2009
C376L	2009	C380-Y	2009	C382BN(2S)	2009	C386D	2016	C389Y	2016	C397GN	2016	C401OR	2009
C376M(TRANS)	2009	C380-YEL	2009	C382BR(2S)	2009	C386E	2016	C391	2009	C397H	2016	C401R	2009
C376OR	2009	C380A(TRANS)	2009	C382C	2009	C386F	2016	C391A	2009	C397J	2016	C401X	2009
C376R	2009	C380A-O	2009	C382D	2009	C386G	2016	C391B	2009	C397K	2016	C401Y	2009
C376X	2009	C380AO	2009	C382E	2009	C386GN	2016	C391C	2009	C397L	2016	C402	2009
C376Y	2009	C380A-O	2009	C382F	2009	C386H	2016	C391D	2009	C397M(TRANS)	2016	C402(2S)	2009
C377(2S)	2009	C380AO(2S)	2009	C382G(2S)	2009	C386J	2016	C391E	2009	C397OR	2016	C402A(2S)	2009
C377-O	2009	C380AR	2009	C382GN	2009	C386K	2016	C391F	2009	C397R	2016	C402B	2009
C377-BN	2009	C380A-R(2S)	2009	C382GR	2009	C386L	2016	C391G	2009	C397X	2016	C402C	2009
C377-BRN	2009	C380ATV(2S)	2009	C382GY	2009	C386M	2016	C391GN	2009	C397Y	2016	C402D	2009
C377-O	2009	C380A-Y	2009	C382H	2009	C386OR	2016	C391H	2009	C398	2009	C402E	2009
C377-OR	2009	C380AY(2S)	2009	C382J	2009	C386R	2016	C391J	2009	C398A	2009	C402F	2009
C377-ORG	2009	C380B(TRANS)	2009	C382K	2009	C386X	2016	C391K	2009	C398B	2009	C402G	2009
C377-R	2009	C380B-Y	2009	C382L	2009	C386Y	2016	C391L	2009	C398C	2009	C402GN	2009
C377-RED	2009	C380BY	2009	C382M	2009	C387(2S)	2016	C391M	2009	C398D	2009	C402H	2009
C377A	2009	C380C(TRANS)	2009	C382OR	2009	C387-G	2016	C391OR	2009	C398E(TRANS)	2009	C402J	2009
C377B	2009	C380C-Y	2009	C382R(2S)	2009	C387-OR	2016	C391R	2009	C398F	2009	C402K	2009
C377BN	2009	C380CY	2009	C382V(2S)	2009	C387A(2S)	2016	C391X	2009	C398FA1	2009	C402L	2009

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C401M	2009	C423E(25)	1617	C435-OR	2009	C459L	2009	C472K	2058	C497-OR	2030	C501A(TRANS)	2030
C401OR	2009	C423F(25)	1617	C455A	2009	C459M	2009	C472Y(25)	2058	C497-ORG	2030	C501B(TRANS)	2030
C401R	2009	C423G	1617	C455B	2009	C459OR	2009	C473	1617	C497-R(25)	2030	C501C(TRANS)	2030
C401X	2009	C423GH	1617	C455C	2009	C459R	2009	C473AC	1617	C497-RED	2030	C501D(TRANS)	2030
C401Y	2009	C423H	1617	C455D	2009	C459X	2009	C474	2009	C497-Y(25)	2030	C501E(TRANS)	2030
C403(25)	2009	C423J	1617	C455E	2009	C459Y	2009	C477(25)	2016	C497-YEL	2030	C501F	2030
C403-OR	2009	C423K	1617	C455F	2009	C460	2009	C477A	2016	C497A	2030	C501G	2030
C403A(25)	2009	C423L	1617	C455G	2009	C460(JAPAN)	2009	C477B	2016	C497B	2030	C501GH	2030
C403AL	2009	C423M	1617	C455GN	2009	C460-5	2009	C477C	2016	C497C	2030	C501H	2030
C403B	2009	C423OR	1617	C455H	2009	C460-B	2009	C477D	2016	C497D	2030	C501J	2030
C403C(25)	2009	C423R	1617	C455J	2009	C460-C	2009	C477E(TRANS)	2016	C497E	2030	C501K	2030
C403CG	2009	C423X	1617	C455K	2009	C460-OR	2009	C477F	2016	C497F	2030	C501L(25)	2030
C403D	2009	C423Y	1617	C455L	2009	C460A(25)	2009	C477G	2016	C497G	2030	C501M(TRANS)	2030
C403E	2009	C424	1617	C455M	2009	C460B	2009	C477GN	2016	C497GH	2030	C501N	2030
C403F	2009	C424(25)	1617	C455OR	2009	C460BL	2009	C477H	2016	C497H	2030	C501O	2030
C403G	2009	C424D(25)	1617	C455R	2009	C460C	2009	C477J	2016	C497J	2030	C501R	2030
C403GN	2009	C425	2030	C455X	2009	C460D(25)	2009	C477K	2016	C497K	2030	C501X	2030
C403H	2009	C425(25)	1617	C455Y	2009	C460E	2009	C477L	2016	C497L	2030	C501Y	2030
C403J	2009	C425A	1617	C457	2009	C460F	2009	C477M(TRANS)	2016	C497M	2030	C503(25)	2030
C403K	2009	C425B(25)	1617	C458	2009	C460G(25)	2009	C477OR	2016	C497OR	2030	C503-GR	2030
C403L	2009	C425C(25)	1617	C458(JAPAN)	2009	C460GN(25)	2009	C477R	2016	C497R	2030	C503-G(25)	2030
C403M	2009	C425D(25)	1617	C458-4	2009	C460GN	2009	C477X	2016	C497RED	2030	C503-Y(25)	2030
C403OR	2009	C425E(25)	1617	C458-5	2009	C460H(25)	2009	C477Y	2016	C497X	2030	C503A	2030
C403R	2009	C425F(25)	1617	C458-B	2009	C460J	2009	C478(25)	1617	C497Y	2030	C503B	2030
C403X	2009	C425G	1617	C458-C	2009	C460K(25)	2009	C478-4(25)	1617	C498(25)	2030	C503C	2030
C403Y	2009	C425GN	1617	C458-D	2009	C460L(25)	2009	C478-O	1617	C498-0	2030	C503D	2030
C404(25)	2009	C425H	1617	C458-GR	2009	C460M	2009	C478A	1617	C498-O(25)	2030	C503E	2030
C404A	2009	C425K	1617	C458-O	2009	C460OR	2009	C478B	1617	C498-OR	2030	C503F	2030
C404B	2009	C425L	1617	C458-OR	2009	C460R	2009	C478C	1617	C498-ORG	2030	C503G	2030
C404C	2009	C425M	1617	C458-Y	2009	C460X	2009	C478D(25)	1617	C498-R(25)	2030	C503GN	2030
C404D	2009	C425OR	1617	C458A(25)	2009	C460Y	2009	C478E(TRANS)	1617	C498-RED	2030	C503H(25)	2030
C404E	2009	C425R	1617	C458AD(25)	2009	C461	2009	C478F	1617	C498-Y(25)	2030	C503I	2030
C404F	2009	C425X	1617	C458AK	2009	C461-8F	2009	C478G	1617	C498-YEL	2030	C503J	2030
C404G	2009	C425Y	1617	C458B	2009	C461-A	2009	C478GN	1617	C498A	2030	C503K	2030
C404GN	2009	C426	2030	C458B(JAPAN)	2009	C461-B	2009	C478H	1617	C498B	2030	C503L	2030
C404H	2009	C426(25)	2009	C458BC(25)	2009	C461A	2009	C478J	1617	C498C	2030	C503M	2030
C404J	2009	C427	2009	C458BD	2009	C461AL	2009	C478K	1617	C498D	2030	C503OR	2030
C404K	2009	C428(25)	2009	C458BL(25)	2009	C461B	2009	C478L	1617	C498E	2030	C503R	2030
C404L	2009	C433	2009	C458BM	2009	C461BF	2009	C478M(TRANS)	1617	C498F	2030	C503X	2030
C404M	2009	C434	2020	C458C	2009	C461BK	2009	C478OR	1617	C498G	2030	C504(25)	2030
C404OR	2009	C433(25)	2030	C458C(JAPAN)	2009	C461BL	2009	C478R	1617	C498GN	2030	C504-OR	2030
C404R	2009	C434A	2030	C458CL	2009	C461C	2009	C478X	1617	C498H	2030	C504-G(25)	2030
C404X	2009	C434B	2030	C458CLG(25)	2009	C461E(25)	2009	C478Y	1617	C498J	2030	C504-Y(25)	2030
C404Y	2009	C434C	2030	C458CM(25)	2009	C461EP	2009	C479(25)	2030	C498K	2030	C504A	2030
C405(25)	1617	C434D	2030	C458D(25)	2009	C461F	2009	C479A	2030	C498L	2030	C504B	2030
C405A	1617	C434E	2030	C458E(TRANS)	2009	C461L(25)	2009	C479B	2030	C498M	2030	C504C	2030
C405B	1617	C434F	2030	C458F	2009	C462	2009	C479C	2030	C498OR	2030	C504D	2030
C405C	1617	C434G	2030	C458G(25)	2009	C463(25)	2016	C479D	2030	C498R	2030	C504E	2030
C405D	1617	C434GN	2030	C458GN	2009	C463A	2016	C479E	2030	C498RED	2030	C504F	2030
C405E	1617	C434H	2030	C458H	2009	C463B	2016	C479F	2030	C498X	2030	C504G	2030
C405F	1617	C434J	2030	C458J	2009	C463C	2016	C479G	2030	C498Y	2030	C504GH	2030
C405G	1617	C434K	2030	C458K(25)	2009	C463D	2016	C479GN	2030	C498YEL	2030	C504G(25)	2030
C405GN	1617	C434L	2030	C458K(25)	2009	C463E	2016	C479H	2030	C499(25)	2030	C504H	2030
C405H	1617	C434M	2030	C458L(25)	2009	C463F	2016	C479J	2030	C499-OR	2030	C504I	2030
C405J	1617	C434OR	2030	C458L6	2009	C463G	2016	C479K	2030	C499-R	2030	C504K	2030
C405K	1617	C434R	2030	C458LB(25)	2009	C463GN	2016	C479L	2030	C499-RED	2009	C504L	2030
C405L	1617	C434X	2030	C458LC	2009	C463H(25)	2016	C479M	2030	C499-RY(25)	2009	C504M	2030
C405M	1617	C434Y	2030	C458LD	2009	C463J	2016	C479OR	2030	C499-Y	2009	C504OR	2030
C405OR	1617	C444	1617	C458LG	2009	C463K	2016	C479R	2030	C499-YEL	2009	C504R	2030
C405R	1617	C450	1617	C458LGA(25)	2009	C463L	2016	C479X	2030	C499A	2009	C504X	2030
C405X	1617	C454	2009	C458LGB	2009	C463M	2016	C479Y	2030	C499B	2009	C504Y	2030
C405Y	1617	C454-3	2009	C458LGBM(25)	2009	C463OR	2016	C492(25)	2041	C499C	2009	C504Z	2030
C406(25)	1617	C454-5	2009	C458LGC	2009	C463R	2016	C494(25)	2041	C499D	2009	C509-0	2009
C406A	1617	C454-C	2009	C458LGC-6	2009	C463X	2016	C494-BL(25)	2041	C499E	2009	C509-O	2009
C406B	1617	C454-OR	2009	C458LGD	2009	C463Y	2016	C494-R(25)	2041	C499F	2009	C509-Y	2009
C406C	1617	C454A(25)	2009	C458LGO(25)	2009	C467	2016	C494-Y(25)	2041	C499FA1	2009	C509G(25)	2009
C406D	1617	C454B	2009	C458LGR	2009	C468(25)	1617	C494A	2041	C499G	2009	C509G-O	2009
C406E	1617	C454B-6	2009	C458LGS(25)	2009	C468A(25)	1617	C494B	2041	C499GN	2009	C509G-Y	2009
C406F	1617	C454BL	2009	C458M(TRANS)	2009	C468B	1617	C494BL(25)	2041	C499H	2009	C509O	2009
C406G	1617	C454C	2009	C458OR	2009	C468H	1617	C494C	2041	C499J	2009	C509Y(25)	2009
C406GN	1617	C454C(JAPAN)	2009	C458P	2009	C468LGR	1617	C494D	2041	C499K	2009	C511A	1067
C406H	1617	C454D(25)	2009	C458R	2009	C472	2058	C494E	2041	C499L	2009	C511B	1067
C406J	1617	C454E	2009	C458RG(25)	2009	C472A	2058	C494F	2041	C499M	2009	C511C	1020
C406K	1617	C454F	2009	C458X	2009	C472B	2058	C494G	2041	C499OR	2009	C511F	1047
C406L	1617	C454G	2009	C458Y	2009	C472C	2058	C494GN	2041	C499R(25)	2009	C511G	1067
C406M	1617	C454GN	2009	C459(25)	2009	C472D	2058	C494H	2041	C499RED	2009	C511H	1020
C406OR	1617	C454H	2009	C459A	2009	C472E	2058	C494J	2041	C499RY	2009	C511U	1067
C406R	1617	C454J	2009	C459B(25)	2009	C472F	2058	C494K	2041	C499X	2009	C516(25)	2030
C406X	1617	C454K	2009	C459C	2009	C472G	2058	C494L	2041	C499Y(25)	2009	C516A	2030
C406Y	1617	C454L(25)	2009	C459D(25)	2009	C472GN	2058	C494M	2041	C499YEL	2009	C516B	2030
C470	2030	C454L(25)	2009	C459E	2009	C472H	2058	C494OR	2041	C501	2030	C516C	2030
C473(25)	1617	C454M	2009	C459F	2009	C472J	2058	C494R	2041	C501-O	2030	C516D	2030
C473-O	1617	C454OR	2009	C459G	2009	C472K	2058	C494X	2041	C501-ORG	2030	C516E	2030
C473A	1617	C454R	2009	C459GN	2009	C472L	2058	C494Y	2041	C501-R	2030	C516F	2030
C423B(25)	1617	C454X	2009	C459H	2009	C472M	2058	C497(25)	2030	C501-RED	2030	C516G	2030
C423C(25)	1617	C454Y	2009	C459J	2009	C472OR	2058	C497-0	2030	C501-Y	2030	C516H	2030
C423D(25)	1617	C455(25)	2009	C459K	2009	C472R	2058	C497-O(25)	2030	C501-YEL	2030	C516H	2030

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C516J	2030	C536FS(2S)	2009	C538T(2S)	1617	C560Y	2030	C565	1617	C594OR	1617	C613X	2016
C516K	2030	C536FS4(2S)	2009	C539(2S)	1617	C561(2S)	2016	C569	1617	C594R	1617	C613Y	2016
C516L	2030	C536FZ(2S)	2009	C539R(2S)	1617	C561-OR	2016	C570	1617	C594X	1617	C618	2016
C516M	2030	C536G(2S)	2009	C539S(2S)	1617	C561A	2016	C575	2030	C594Y	1617	C618A	2016
C516OR	2030	C536G(JAPAN)	2009	C539T	1617	C561B	2016	C576	1617	C595(2S)	1617	C619(2S)	2009
C516R	2030	C536G-1	2009	C541	2017	C561C	2016	C576E	2009	C595A	1617	C619A	2009
C516X	2030	C536G1	2009	C542	2017	C561D	2016	C576F	2009	C595B	1617	C619B(2S)	2009
C516Y	2030	C536G2	2009	C543	2020	C561E	2016	C576G	2009	C595C	1617	C619C(2S)	2009
C527	2016	C536GF(2S)	2009	C543A	2020	C561F	2016	C577	1617	C595D	1617	C619D(2S)	2009
C528	2016	C536GJ	2009	C543B	2020	C561G	2016	C580(2S)	2030	C595E	1617	C619E	2009
C529	2009	C536GK(2S)	2009	C543C	2020	C561GN	2016	C580A	2030	C595F	1617	C619F	2009
C529A	2009	C536GL	2009	C543D	2020	C561H	2016	C580B	2030	C595G	1617	C619G	2009
C529B	2009	C536GM	2009	C543E	2020	C561J	2016	C580C	2030	C595GN	1617	C619GN	2009
C529C	2009	C536GN	2009	C543F	2020	C561K	2016	C580D	2030	C595H	1617	C619H	2009
C529D	2009	C536GP	2009	C543G	2020	C561L	2016	C580E	2030	C595J	1617	C619J	2009
C529E	2009	C536GT(2S)	2009	C543GN	2020	C561M	2016	C580F	2030	C595K	1617	C619K	2009
C529F	2009	C536GV(2S)	2009	C543H	2020	C561OR	2016	C580G	2030	C595L	1617	C619L	2009
C529G	2009	C536GY(2S)	2009	C543J	2020	C561R	2016	C580GN	2030	C595M	1617	C619M	2009
C529GN	2009	C536GZ	2009	C543K	2020	C561X	2016	C580H	2030	C595OR	1617	C619OR	2009
C529H	2009	C536H(2S)	2009	C543L	2020	C561Y	2016	C580J	2030	C595X	1617	C619R	2009
C529J	2009	C536I	2009	C543M	2020	C562(2S)	2016	C580K	2030	C595Y	1617	C619X	2009
C529K	2009	C536K	2009	C543OR	2020	C562(O)	2016	C580L	2030	C596(2S)	1617	C619Y	2009
C529L	2009	C536K(JAPAN)	2009	C543R	2020	C562-OR	2016	C580M	2030	C596A	1617	C620	2009
C529M	2009	C536KE(JAPAN)	2009	C543X	2020	C562A	2016	C580OR	2030	C596B	1617	C620(2S)	2009
C529OR	2009	C536KF(JAPAN)	2009	C543Y	2020	C562B	2016	C580R	2030	C596C	1617	C620-D	2009
C529R	2009	C536KNP	2009	C544(2S)	2016	C562C	2016	C580T	2030	C596D	1617	C620-E	2009
C529X	2009	C536L	2009	C544A	2016	C562D	2016	C580X	2030	C596E	1617	C620-OR	2009
C529Y	2009	C536M	2009	C544AG	2016	C562E	2016	C580Y	2030	C596F	1617	C620A	2009
C530	2009	C536NP	2009	C544B	2016	C562F	2016	C581	2016	C596G	1617	C620B	2009
C531	2009	C536NPE	2009	C544C(2S)	2016	C562G	2016	C585	2020	C596GN	1617	C620C(2S)	2009
C532	2009	C536NPF	2009	C544D(2S)	2016	C562GN	2016	C586(2S)	2041	C596H	1617	C620CD(2S)	2009
C532O	2009	C536NPG	2009	C544E(2S)	2016	C562H	2016	C587(2S)	1617	C596J	1617	C620D(2S)	2009
C533	2009	C536OR	2009	C544F	2016	C562J	2016	C587A(2S)	1617	C596K	1617	C620DE(2S)	2009
C534	2009	C536R	2009	C544G	2016	C562K	2016	C587B	1617	C596L	1617	C620E(2S)	2009
C535	2016	C536SP	2009	C544GN	2016	C562L	2016	C587C	1617	C596M	1617	C620F	2009
C535-OR	2016	C536W(2S)	2009	C544H	2016	C562M	2016	C587D	1617	C596OR	1617	C620G	2009
C535A	2016	C536X	2009	C544J	2016	C562O	2016	C587E	1617	C596R	1617	C620GN	2009
C535ABC	2016	C536XL	2009	C544K	2016	C562OR	2016	C587F	1617	C596X	1617	C620H	2009
C535AL	2016	C536Y	2009	C544L	2016	C562R	2016	C587G	1617	C596Y	1617	C620J	2009
C535B	2016	C536YF	2009	C544M	2016	C562X	2016	C587GN	2016	C598	2017	C620K	2009
C535B(JAPAN)	2016	C537	2009	C544OR	2016	C562Y(2S)	2016	C587H	1617	C599	2020	C620L	2009
C535C	2016	C537-C7	2009	C544R	2016	C563	2016	C587I	1617	C600	2020	C620M	2009
C535D	2016	C537-EV	2009	C544X	2016	C563-F	2016	C587K	1617	C602	2016	C620OR	2009
C535E	2016	C537A	2016	C544Y	2016	C563-G	2016	C587L	1617	C604	2016	C620R	2009
C535F	2016	C537ALC	2009	C545(2S)	2016	C563-OR	2016	C587M	1617	C607	2030	C620X	2009
C535G(2S)	2016	C537B	2009	C545A(2S)	2016	C563A(2S)	2016	C587OR	1617	C610	2023	C620Y	2009
C535GN	2016	C537BK	2009	C545B(2S)	2016	C563B	2016	C587R	1617	C610(2S)	2030	C621	2009
C535H	2016	C537C	2009	C545C(2S)	2016	C563C	2016	C587X	1617	C610A	2030	C621(2S)	2009
C535J	2016	C537C7	2009	C545D(2S)	2016	C563D	2016	C587Y	1617	C610B	2030	C621A	2009
C535K	2016	C537D(2S)	2009	C545E(2S)	2016	C563E	2016	C588(2S)	1617	C610C	2030	C621B	2009
C535L	2016	C537D1	2009	C546	2016	C563F	2016	C588A	1617	C610D	2030	C621C	2009
C535M	2016	C537D2(2S)	2009	C546K	2016	C563G	2016	C588B	1617	C610E	2030	C621D	2009
C535OR	2016	C537E(2S)	2009	C547C(EUROPE)	2009	C563GN	2016	C588C	1617	C610F	2030	C621E	2009
C535R	2016	C537EF	2009	C548	2009	C563H	2016	C588D	1617	C610G	2030	C621F	2009
C535X	2016	C537EH(2S)	2009	C548(EUROPE)	2009	C563J	2016	C588E	1617	C610GN	2030	C621G	2009
C535Y	2016	C537EJ(2S)	2009	C548A(EUROPE)	2016	C563K	2016	C588F	1617	C610H	2030	C621GN	2009
C536	2009	C537EV	2009	C548C(EUROPE)	2009	C563L	2016	C588G	1617	C610J	2030	C621H	2009
C536(JAPAN)	2009	C537F	2009	C549C(EUROPE)	2016	C563M	2016	C588GN	1617	C610K	2030	C621J	2009
C536-D	2009	C537F1(2S)	2009	C550	2017	C563OR	2016	C588H	1617	C610L	2030	C621K	2009
C536-E	2009	C537F2(2S)	2009	C550A	2017	C563R	2016	C588J	1617	C610M	2030	C621L	2009
C536-F	2009	C537FC(2S)	2009	C551	2020	C563X	2016	C588K	1617	C610OR	2030	C621M	2009
C536-G	2009	C537F-C7	2009	C552	2020	C563Y	2016	C588L	1617	C610R	2030	C621OR	2009
C536-OR	2009	C537FC7	2009	C553	2020	C564(2S)	1617	C588M	1617	C610X	2030	C621R	2009
C536A(2S)	2009	C537FJ	2009	C554	2020	C564A(2S)	1617	C588OR	1617	C610Y	2030	C621X	2009
C536AF	2009	C537FK	2009	C556	2058	C564AP	1617	C588R	1617	C611A	1067	C621Y	2009
C536AG(2S)	2009	C537FV(2S)	2009	C557(EUROPE)	2023	C564B	1617	C588X	1617	C611B	1067	C622	1617
C536B(2S)	2009	C537G(2S)	2009	C558	2023	C564C	1617	C588Y	1617	C611F	1067	C622(2S)	1617
C536C(2S)	2009	C537G1(2S)	2009	C558(EUROPE)	2023	C564D	1617	C590Y(2S)	2009	C611G	1067	C622A	1617
C536D(2S)	2009	C537G2	2009	C558B(EUROPE)	2023	C564E	1617	C592	2017	C611U	1067	C622B	1617
C536DK(2S)	2009	C537GFL	2009	C559B(EUROPE)	2023	C564F	1617	C593(2S)	1617	C612B	2016	C622C	1617
C536E	2009	C537G(2S)	2009	C560(2S)	2030	C564G	1617	C594(2S)	1617	C613	2016	C622D	1617
C536E(JAPAN)	2009	C537H(2S)	2009	C560A	2030	C564GN	1617	C594-O	1617	C613(2S)	2016	C622E	1617
C536ED(2S)	2009	C537HT(2S)	2009	C560B	2030	C564H	1617	C594-R	1617	C613A	2016	C622F	1617
C536EH(2S)	2009	C537WF	2009	C560C	2030	C564J	1617	C594-Y	1617	C613B	2016	C622G	1617
C536E(2S)	2009	C538	1617	C560D	2030	C564K	1617	C594A	1617	C613C	2016	C622GN	1617
C536EN(2S)	2009	C538-Q	1617	C560E	2030	C564L	1617	C594B	1617	C613D	2016	C622H	1617
C536EP	2009	C538A(2S)	1617	C560F	2030	C564M	1617	C594C	1617	C613E	2016	C622J	1617
C536ER(2S)	2009	C538A-P	1617	C560G	2030	C564OR	1617	C594D	1617	C613F	2016	C622K	1617
C536ET(2S)	2009	C538AQ(2S)	1617	C560GN	2030	C564P(2S)	1617	C594E	1617	C613G	2016	C622L	1617
C536EZ(2S)	2009	C538A-R	1617	C560H	2030	C564PL	1617	C594F	1617	C613GN	2016	C622M	1617
C536F	2009	C538AR	1617	C560J	2030	C564Q(2S)	1617	C594G	1617	C613H	2016	C622OR	1617
C536F(JAPAN)	2009	C538AS	1617	C560K	2030	C564QC	1617	C594GN	1617	C613J	2016	C622R	1617
C536F1(2S)	2009	C538K	1617	C560L	2030	C564R(2S)	1617	C594H	1617	C613K	2016	C622X	1617
C536F2(2S)	2009	C538P(2S)	1617	C560M	2030	C564S(2S)	1617	C594J	1617	C613L(TRANS)	2016	C622Y	1617
C536FC	2009	C538Q(2S)	1617	C560OR	2030	C564T(2S)	1617	C594K	1617	C613M	2016	C623(2S)	1617
C536FC(2S)	2009	C538R	1617	C560R	2030	C564X	1617	C594L	1617	C613OR	2016	C624(2S)	1617
C536FP(2S)	2009	C538S(2S)	1617	C560X	2030	C564Y	1617	C594M	1617	C613R	2016	C626	1617

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C629(2S)	2058	C634AL	2009	C644PJ(2S)	2016	C650OR	2009	C662E	2016	C673C(JAPAN)	2016	C685R	2016
C629-31	2058	C634AXL	2009	C644Q(2S)	2016	C650R	2009	C662F	2016	C673C2(2S)	2016	C687(2S)	2041
C629-41	2058	C634B	2009	C644R	2016	C650X	2009	C662G	2016	C673D(2S)	2016	C687A	2041
C629A	2058	C634C	2009	C644S	2016	C650Y	2009	C662GN	2016	C674	2016	C687B	2041
C629B	2058	C634D	2009	C644S/494	2016	C653	2016	C662H	2016	C674(2S)	2016	C687C	2041
C629C	2058	C634E	2009	C644ST	2016	C655	2009	C662J	2016	C674(JAPAN)	2016	C687D	2041
C629D	2058	C634F	2009	C644T(2S)	2016	C655(2S)	1617	C662K	2016	C674-B	2016	C687E	2041
C629E	2058	C634G	2009	C644X	2016	C655A	1617	C662L	2016	C674-F	2016	C687F	2041
C629F	2058	C634GN	2009	C644Y	2016	C655B	1617	C662M	2016	C674B(2S)	2016	C687G	2041
C629G	2058	C634H	2009	C645(2S)	2016	C655C	1617	C662OR	2016	C674C(2S)	2016	C687GN	2041
C629GN	2058	C634J	2009	C645-OR	2016	C655D	1617	C662R	2016	C674CK	2016	C687H	2041
C629H	2058	C634K	2009	C645A(2S)	2016	C655E	1617	C662X	2016	C674CL	2016	C687J	2041
C629J	2058	C634L	2009	C645B(2S)	2016	C655F	1617	C662Y	2016	C674D(2S)	2016	C687K	2041
C629K	2058	C634M	2009	C645B-1	2016	C655G	1617	C663(2S)	2016	C674E(2S)	2016	C687L	2041
C629L	2058	C634OR	2009	C645C(2S)	2016	C655GN	1617	C663A	2009	C674F(2S)	2016	C687M	2041
C629M	2058	C634R	2009	C645D	2016	C655H	1617	C663B	2016	C674G(2S)	2016	C687OR	2041
C629OR	2058	C634SP	2009	C645E	2016	C655J	1617	C663C	2016	C678	2041	C687R	2041
C629R	2058	C634X	2009	C645F	2016	C655K	1617	C663D	2016	C682	2016	C687X	2041
C629X	2058	C634Y	2009	C645G(2S)	2016	C655L	1617	C663E	2016	C682(2S)	2016	C687Y	2041
C629Y	2058	C635	2009	C645GN	2016	C655M	1617	C663F	2016	C682-OR	2016	C688(2S)	2058
C631	2009	C635A(2S)	2009	C645GR	2016	C655OR	1617	C663G	2016	C682A	2016	C688-SF	2016
C631(2S)	2009	C636(2S)	2020	C645H	2016	C655R	1617	C663GN	2016	C682A(2S)	2016	C688A	2058
C631A(2S)	2009	C639	1617	C645J	2016	C655X	1617	C663H	2016	C682B(2S)	2016	C688B	2058
C631B	2009	C641	2009	C645K	2016	C655Y	1617	C663J	2016	C682C	2016	C688C	2058
C631C	2009	C641(2S)	2009	C645L	2016	C657(2S)	2016	C663K	2016	C682D	2016	C688D	2058
C631D	2009	C641A	2009	C645M	2016	C657A	2016	C663L	2016	C682E	2016	C688E	2058
C631E	2009	C641B(2S)	2009	C645N(2S)	2016	C657B	2016	C663M	2016	C682F	2016	C688F	2058
C631F	2009	C641C	2009	C645OR	2016	C657C	2016	C663OR	2016	C682G	2016	C688G	2058
C631G	2009	C641D	2009	C645R	2016	C657D	2016	C663R	2016	C682GN	2016	C688GN	2058
C631GN	2009	C641E	2009	C645S	2016	C657E	2016	C663X	2016	C682H	2016	C688H	2058
C631H	2009	C641F	2009	C645T	2016	C657F	2016	C663Y	2016	C682J	2016	C688J	2058
C631J	2009	C641G	2009	C645Y	2016	C657G	2016	C664	2041	C682K	2016	C688K	2058
C631K	2009	C641GN	2009	C647(2S)	2041	C657GN	2016	C664-OR	2041	C682L	2016	C688L	2058
C631L	2009	C641H	2009	C647Q(2S)	2041	C657H	2016	C664A	2041	C682M	2016	C688M	2058
C631M	2009	C641J	2009	C647R(2S)	2041	C657J	2016	C664B(2S)	2041	C682OR	2016	C688OR	2058
C631OR	2009	C641K	2009	C648(2S)	1617	C657K	2016	C664C(2S)	2041	C682R	2016	C688R	2058
C631R	2009	C641L	2009	C648A	1617	C657L	2016	C664D	2041	C682X	2016	C688X	2058
C631X	2009	C641M	2009	C648B	1617	C657M	2016	C664E	2041	C682Y	2016	C688Y	2058
C631Y	2009	C641OR	2009	C648C	1617	C657OR	2016	C664F	2041	C683	2016	C689(2S)	1617
C632	2009	C641R	2009	C648D	1617	C657R	2016	C664L	2041	C683(2S)	2016	C689A	1617
C632(1)	2009	C641X	2009	C648E(TRANS)	1617	C657X	2016	C664OR	2041	C683-O	2016	C689B	1617
C632(2S)	2009	C641Y	2009	C648F	1617	C657Y	2016	C664R	2041	C683-OR	2016	C689C	1617
C632-OR	2009	C642	2055	C648G	1617	C658(2S)	2016	C664Y	2041	C683A	2016	C689D	1617
C632A(2S)	2009	C642(2S)	2055	C648H(2S)	1617	C658A(2S)	2016	C666(2S)	2041	C683A(2S)	2016	C689E	1617
C632B	2009	C642A(2S)	2055	C648J	1617	C658B	2016	C666C	2041	C683B	2016	C689G	1617
C632C	2009	C643(2S)	2055	C648K	1617	C658C	2016	C667(2S)	2016	C683C	2016	C689GN	1617
C632D	2009	C643-OR	2055	C648L	1617	C658D	2016	C668(2S)	2016	C683D	2016	C689H(2S)	1617
C632E	2009	C643A(2S)	2055	C648M(TRANS)	1617	C658E	2016	C668-OR	2016	C683E	2016	C689J	1617
C632F	2009	C643B	2055	C648OR	1617	C658F	2016	C668-SP	2016	C683F	2016	C689K	1617
C632G	2009	C643C	2055	C648R	1617	C658G	2016	C668A(2S)	2016	C683G	2016	C689L	1617
C632GN	2009	C643D	2055	C648X	1617	C658GN	2016	C668B(2S)	2016	C683GN	2016	C689M	1617
C632H	2009	C643E	2055	C648Y	1617	C658H	2016	C668B1(2S)	2016	C683H	2016	C689OR	1617
C632J	2009	C643F	2055	C649(2S)	1617	C658J	2016	C668BC2(2S)	2016	C683J	2016	C689R	1617
C632K	2009	C643G	2055	C649A	1617	C658K	2016	C668C(2S)	2016	C683K	2016	C689X	1617
C632L	2009	C643GN	2055	C649B	1617	C658L	2016	C668C1(2S)	2016	C683L	2016	C689Y	1617
C632M	2009	C643H	2055	C649C	1617	C658M	2016	C668C2	2016	C683M	2016	C691	2017
C632OR	2009	C643J	2055	C649D	2016	C658OR	2016	C668CD(2S)	2016	C683OR	2016	C692	2017
C632R	2009	C643K	2055	C649E	1617	C658R	2016	C668D(2S)	2016	C683P	2016	C693	2016
C632X	2009	C643L	2055	C649F	1617	C658X	2016	C668D0(2S)	2016	C683Q	2016	C693-OR	2016
C632Y	2009	C643M	2055	C649G	1617	C658Y	2016	C668D1(2S)	2016	C683R	2016	C693A	2016
C633	2009	C643OR	2055	C649GN	1617	C659(2S)	2016	C668DE(2S)	2016	C683S	2016	C693B	2016
C633(2S)	2009	C643R	2055	C649H	1617	C659A	2016	C668DO(2S)	2016	C683V(2S)	2016	C693C	2016
C633-7(2S)	2009	C643X	2055	C649J	1617	C659B	2016	C668DV(2S)	2016	C683X	2016	C693D	2016
C633-OR	2009	C643Y	2055	C649K	1617	C659C	2016	C668DX(2S)	2016	C683Y	2016	C693E	2016
C633A(2S)	2009	C644	2016	C649L	1617	C659D	2016	C668DZ(2S)	2016	C684	2016	C693EB(2S)	2016
C633B	2009	C644(2S)	2016	C649M	1617	C659E	2016	C668E(2S)	2016	C684(2S)	2016	C693ET(2S)	2016
C633C	2009	C644-OR	2016	C649OR	1617	C659F	2016	C668E1(2S)	2016	C684-OR	2016	C693F(2S)	2016
C633D	2009	C644A	2016	C649R	1617	C659G	2016	C668E2(2S)	2016	C684A	2016	C693FC(2S)	2016
C633E	2009	C644B	2016	C649X	1617	C659GN	2016	C668EP(2S)	2016	C684A(2S)	2016	C693FL(2S)	2016
C633F	2009	C644C(2S)	2016	C649Y	1617	C659H	2016	C668EV(2S)	2016	C684B(2S)	2016	C693FP	2016
C633G(2S)	2009	C644D	2016	C650	1617	C659J	2016	C668EX(2S)	2016	C684BK(2S)	2016	C693FU(2S)	2016
C633GN	2009	C644E	2016	C650(2S)	2009	C659K	2016	C668F(2S)	2016	C684C	2016	C693G	2016
C633H(2S)	2009	C644F	2016	C650-OR	2009	C659L	2016	C668G	2016	C684D	2016	C693GL(2S)	2016
C633J	2009	C644F/494	2016	C650-Y	2009	C659M	2016	C668GN	2016	C684E	2016	C693GN	2016
C633K	2009	C644FH	2016	C650A	2009	C659OR	2016	C668H	2016	C684F(2S)	2016	C693GS(2S)	2016
C633L	2009	C644FHS	2016	C650B(2S)	2009	C659R	2016	C668K	2016	C684G	2016	C693GU(2S)	2016
C633M	2009	C644FR(2S)	2016	C650C	2009	C659X	2016	C668L	2016	C684GN	2016	C693GZ(2S)	2016
C633OR	2009	C644FS(2S)	2016	C650D	2009	C659Y	2016	C668M	2016	C684H	2016	C693H(2S)	2016
C633R	2009	C644G	2016	C650E	2009	C660	2016	C668OR	2016	C684J	2016	C693I	2016
C633X	2009	C644GN	2016	C650F	2009	C660(2S)	2016	C668R	2016	C684K	2016	C693K	2016
C633Y	2009	C644H(2S)	2016	C650G	2009	C661	2016	C668SP	2016	C684L	2016	C693L	2016
C634(2)	2009	C644I	2016	C650GN	2009	C661(2S)	2016	C668T	2016	C684M	2016	C693M	2016
C634(2S)	2009	C644K	2016	C650H	2009	C662(2S)	2016	C668V	2016	C684OR	2016	C693NP	2016
C634-O	2009	C644L	2016	C650J	2009	C662A	2016	C673	2023	C684R	2016	C693OR	2016
C634-OR	2009	C644M	2016	C650K	2009	C662B	2016	C673(2S)	2016	C684TM	2016	C693R	2016
C634A(2S)	2009	C644OR	2016	C650L	2009	C662C	2016	C673B	2016	C684X	2016	C693U	2016
C634AK	2009	C644P(2S)	2016	C650M	2009	C662D	2016	C673C	2016	C684Y	2016	C693X	2016

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C693Y	2016	C710-3	2009	C713H	2009	C719	2009	C7035-BL	2016	C738J	2016	C752M	2009
C694(2S)	2016	C710-5	2009	C713J	2009	C719Q	2009	C733V(2S)	2016	C738K	2016	C752OR	2009
C694A	2016	C710-13	2009	C713K	2009	C720	2016	C733X	2016	C738L	2016	C752R	2009
C694B	2016	C710-14	2009	C713L(TRANS)	2009	C720(2S)	2016	C733Y(2S)	2016	C738M	2016	C752X	2009
C694C	2016	C710-D	2009	C713M	2009	C721	2009	C733YEL	2016	C738OR	2016	C752Y	2009
C694D	2016	C710-E	2009	C713MC	2009	C722	2016	C734	2009	C738R	2016	C754	2009
C694E(2S)	2016	C710-OR	2009	C713MD	2009	C722(2S)	2016	C734-0(2S)	2009	C738X	2016	C755	1617
C694F(2S)	2016	C710AL	2009	C713ME	2009	C723	2016	C734-G	2009	C738Y	2016	C758OR	2058
C694G(2S)	2016	C710B(2S)	2009	C713OR	2009	C723BL	2016	C734-GR	2009	C739(2S)	2016	C760	2009
C694GN	2016	C710B2	2009	C713R	2009	C724	2009	C734-GRN	2009	C739A	2016	C760(2S)	2041
C694H	2016	C710BC(2S)	2009	C713W	2009	C725(2S)	2009	C734-O(2S)	2009	C739B	2016	C761(2S)	2016
C694J	2016	C710C(2S)	2009	C713X	2009	C725-06	2009	C734-OR	2009	C739C(2S)	2016	C761A	2016
C694K	2016	C710D(2S)	2009	C713Y	2009	C726	2009	C734-ORG	2009	C739D	2016	C761B	2016
C694L	2016	C710D(JAPAN)	2009	C714(2S)	2009	C732(2S)	2016	C734-OY	2009	C739E	2016	C761C	2016
C694M	2016	C710DB	2009	C714A	2009	C732-B	2016	C734-R(2S)	2009	C739F	2016	C761D	2016
C694OR	2016	C710DE	2009	C714B	2009	C732-BL	2016	C734-RED	2009	C739G	2016	C761E	2016
C694R	2016	C710E(2S)	2009	C714C	2009	C732-BLU	2016	C734-Y(2S)	2009	C739GN	2016	C761F	2016
C694X	2016	C710F	2009	C714D	2009	C732-G	2016	C734-YEL	2009	C739H	2016	C761G	2016
C694Y	2016	C710G	2009	C714E	2009	C732-GR	2016	C734A	2009	C739K	2016	C761GN	2016
C694Z(2S)	2016	C710GN	2009	C714F	2009	C732-GRN	2016	C734B	2009	C739L	2016	C761H	2016
C703	2020	C710H	2009	C714G	2009	C732-OR	2016	C734C	2009	C739M	2016	C761J	2016
C704	2020	C710K	2009	C714GN	2009	C732-V	2016	C734D	2009	C739OR	2016	C761K	2016
C705(2S)	2016	C710L	2009	C714H	2009	C732-V10	2016	C734E	2009	C739R	2016	C761L	2016
C705A	2016	C710M	2009	C714J	2009	C732-VIO	2016	C734F	2009	C739Y	2016	C761M	2016
C705B(2S)	2016	C710OR	2009	C714K	2009	C732A	2016	C734G	2009	C740	2016	C761OR	2016
C705C(2S)	2016	C710R	2009	C714L	2009	C732B	2016	C734GN	2009	C740(2S)	2016	C761P	2016
C705D(2S)	2016	C710X	2009	C714M	2009	C732BL(2S)	2016	C734GR(2S)	2009	C740A	2016	C761R	2016
C705E(2S)	2016	C710XL	2009	C714OR	2009	C732BL-1	2016	C734GRN	2009	C740B	2016	C761X	2016
C705F(2S)	2016	C710Y	2009	C714R	2009	C732BLU	2016	C734H	2009	C740C	2016	C761Y(2S)	2016
C705G	2016	C711(2S)	2009	C714X	2009	C732C	2016	C734J	2009	C740D	2016	C761Z(2S)	2016
C705GN	2016	C711-OR	2009	C714Y	2009	C732D	2016	C734K	2009	C740E	2016	C762	2016
C705J	2016	C711A(2S)	2009	C715	2009	C732E	2016	C734L	2009	C740F	2016	C762(2S)	2016
C705K	2016	C711A(JAPAN)	2009	C715-OR	2009	C732F	2016	C734M	2009	C740G	2016	C762B	2016
C705L	2016	C711AE	2009	C715A(2S)	2009	C732G	2016	C734OR	2009	C740GN	2016	C762C	2016
C705M	2016	C711A-E(2S)	2009	C715B(2S)	2009	C732GN	2016	C734R	2009	C740H	2016	C762D	2016
C705OR	2016	C711AE(JAPAN)	2009	C715C(2S)	2009	C732GR(2S)	2016	C734RED	2009	C740J	2016	C762E	2016
C705R	2016	C711A-F	2009	C715D(2S)	2009	C732GRB	2016	C734X	2009	C740K	2016	C762F	2016
C705TV(2S)	2016	C711AF	2009	C715E(2S)	2009	C732GRN	2016	C734Y(2S)	2009	C740L	2016	C762G	2016
C705TVV	2016	C711AG	2009	C715E(2S)	2009	C732H	2016	C734YEL	2009	C740M	2016	C762GN	2016
C705TW	2016	C711AN	2009	C715EV(2S)	2009	C732J	2016	C735(2S)	2009	C740OR	2016	C762H	2016
C705X	2016	C711B	2009	C715F(2S)	2009	C732L	2016	C735-0(2S)	2009	C740R	2016	C762J	2016
C705Y	2016	C711C	2009	C715G	2009	C732M	2016	C735-GR	2009	C740X	2016	C762K	2016
C706	2016	C711D(2S)	2009	C715GN	2009	C732OR	2016	C735-GRN	2009	C740Y	2016	C762L	2016
C708(2S)	2030	C711E(2S)	2009	C715H	2009	C732R	2016	C735-O(2S)	2009	C742	2009	C762M	2016
C708-OR	2030	C711EF	2009	C715J	2009	C732S(2S)	2016	C735-OR	2009	C744	2030	C762R	2016
C708A(2S)	2030	C711F(2S)	2009	C715K	2009	C732V(2S)	2016	C735-ORG	2009	C744(2S)	2030	C762X	2016
C708AA(2S)	2030	C711G(2S)	2009	C715L	2009	C732V10	2016	C735-ORN	2009	C744A	2030	C762Y	2016
C708AB(2S)	2030	C711GN	2009	C715M	2009	C732V10	2016	C735-OY	2009	C748(2S)	2016	C763(2S)	2016
C708AC(2S)	2030	C711H	2009	C715OR	2009	C732X	2016	C735-R(2S)	2009	C748A	2016	C763(JAPAN)	2016
C708AH(2S)	2030	C711J	2009	C715R	2009	C732Y(2S)	2016	C735-RED	2009	C748C	2016	C763-C	2016
C708B(2S)	2030	C711L	2009	C715X	2009	C733(2S)	2016	C735-Y	2009	C748D	2016	C763-OR	2016
C708C(2S)	2030	C711M	2009	C715XL(2S)	2009	C733-0(2S)	2016	C735-YEL	2009	C748E	2016	C763A	2016
C708D	2030	C711OR	2009	C715Y	2009	C733-B	2016	C735A	2009	C748F	2016	C763B(2S)	2016
C708E	2030	C711R	2009	C716(2S)	2009	C733-BL	2016	C735B(2S)	2009	C748G	2016	C763C(2S)	2016
C708F	2030	C711X	2009	C716A	2009	C733-BLU	2016	C735C	2009	C748GN	2016	C763D(2S)	2016
C708G	2030	C711Y	2009	C716B(2S)	2009	C733-G	2016	C735D	2009	C748H	2016	C763E	2016
C708GN	2030	C712(2S)	2009	C716C(2S)	2009	C733-GR	2016	C735E	2009	C748J	2016	C763F	2016
C708H	2030	C712A(2S)	2009	C716D(2S)	2009	C733-GRN	2016	C735F(2S)	2009	C748K	2016	C763G	2016
C708HA	2030	C712B	2009	C716E(2S)	2009	C733-O(2S)	2016	C735FA3(2S)	2009	C748L	2016	C763GN	2016
C708HB	2030	C712BC	2009	C716F(2S)	2009	C733-OR	2016	C735G	2009	C748M	2016	C763H	2016
C708L	2030	C712C(2S)	2009	C716G(2S)	2009	C733-ORG	2016	C735GN	2009	C748OR	2016	C763J	2016
C708M	2030	C712CD	2009	C716GN	2009	C733-Y	2016	C735GR(2S)	2009	C748R	2016	C763K	2016
C708OR	2030	C712D(2S)	2009	C716H	2009	C733-YEL	2016	C735GRN	2009	C748X	2016	C763L	2016
C708R	2030	C712DC	2009	C716J	2009	C733A	2016	C735H(2S)	2009	C748Y	2016	C763M	2016
C708X	2030	C712E(2S)	2009	C716K	2009	C733B	2016	C735J(2S)	2009	C751	2016	C763OR	2016
C708Y	2030	C712F	2009	C716L	2009	C733BL(2S)	2016	C735K(2S)	2009	C752(2S)	2009	C763X	2016
C709(2S)	2009	C712G	2009	C716M	2009	C733BLK	2016	C735L(2S)	2009	C752-ORG-G	2009	C763Y	2016
C709A	2009	C712GN	2009	C716OR	2009	C733BLU	2016	C735M	2009	C752-RED-G	2009	C764	2035
C709B(2S)	2009	C712H	2009	C716R	2009	C733C	2016	C735O	2009	C752-YEL-G	2009	C764(2S)	2009
C709C(2S)	2009	C712J	2009	C716X	2009	C733D	2016	C735OR	2009	C752A	2009	C766	2041
C709CD(2S)	2009	C712K	2009	C716Y	2009	C733E	2016	C735RED	2009	C752B	2009	C767	2041
C709D(2S)	2009	C712L(TRANS)	2009	C717(2S)	2016	C733ER	2016	C735X	2009	C752C	2009	C771	2058
C709E	2009	C712M	2009	C717(JAPAN)	2016	C733F	2016	C735Y(2S)	2009	C752D	2009	C771A	2058
C709F	2009	C712OR	2009	C717-TM	2016	C733G	2016	C735YEL	2009	C752E	2009	C771B	2058
C709G	2009	C712R	2009	C717B(2S)	2016	C733GN	2016	C735YFA-5	2009	C752F	2009	C771BX	2058
C709GN	2009	C712W(2S)	2009	C717BK(2S)	2016	C733GR(2S)	2016	C737	2009	C752G(2S)	2009	C771C	2058
C709H	2009	C712X	2009	C717BLK(2S)	2016	C733GRN	2016	C737Y	2009	C752GA	2009	C771D	2058
C709J	2009	C712Y	2009	C717F	2016	C733H	2016	C738(2S)	2016	C752GN	2009	C771E	2058
C709L	2009	C713(2S)	2009	C717G	2016	C733J	2016	C738A	2016	C752G-O	2009	C771F	2058
C709M	2009	C713A	2009	C717GN	2016	C733K	2016	C738B	2016	C752G-R	2009	C771G	2058
C709OR	2009	C713B	2009	C717H	2016	C733L	2016	C738C(2S)	2016	C752G-TM-Y	2009	C771GN	2058
C709X	2009	C713C	2009	C717K	2016	C733M	2016	C738D(2S)	2016	C752G-Y	2009	C771H	2058
C709Y	2009	C713D	2009	C717L	2016	C733O	2016	C738E	2016	C752GY(JAPAN)	2009	C771J	2058
C710(2S)	2009	C713E	2009	C717M	2016	C733OR	2016	C738F	2016	C752H	2009	C771K	2058
C710(C)	2009	C713F	2009	C717M	2016	C733Q	2016	C738G	2016	C752J	2009	C771L	2058
C710(JAPAN)	2009	C713G	2009	C717X	2016	C733R(2S)	2016	C738GN	2016	C752K	2009	C771M	2058
C710-0	2009	C713GN	2009	C718	2009	C733S	2016	C738H	2016	C752L	2009	C771OR	2058

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C771R	2058	C784E	2058	C787Y	2016	C796Y	1617	C826G	2030	C829K	2009	C848A	1617
C771X	2058	C784F	2058	C789(2S)	2020	C797(2S)	2009	C826H	2030	C829L	2009	C848B	1617
C771Y	2058	C784G	2058	C789-O(2S)	2020	C797A	2009	C826J	2030	C829M	2009	C848C	1617
C772(2S)	2058	C784GN	2058	C789-O(2S)	2020	C797B	2009	C826K	2030	C829OR	2009	C848D	1617
C772-OR	2058	C784H	2058	C789-R(2S)	2020	C797C	2009	C826L	2030	C829R(2S)	2009	C848E	1617
C772A	2058	C784J	2058	C789-Y(2S)	2020	C797D	2009	C826M	2030	C829X(2S)	2009	C848F	1617
C772B	2058	C784K	2058	C789A	2020	C797E	2009	C826OR	2030	C829Y(2S)	2009	C848G	1617
C772B(2S)	2058	C784L	2058	C789B	2020	C797F	2009	C826R	2030	C831	2020	C848GN	1617
C772BG(2S)	2058	C784M	2058	C789C	2020	C797G	2009	C826X	2030	C835(2S)	2016	C848H	1617
C772BH(2S)	2058	C784OR	2058	C789D	2020	C797GN	2009	C826Y	2030	C836(2S)	2016	C848J	1617
C772BV(2S)	2058	C784P	2058	C789E	2020	C797H	2009	C827(2S)	2030	C836M	2016	C848K	1617
C772BX(2S)	2058	C784Q	2058	C789F	2020	C797J	2009	C827A	2030	C837(2S)	2058	C848L	1617
C772BY(2S)	2058	C784R(2S)	2058	C789G	2020	C797K	2009	C827B	2030	C837A	2058	C848M	1617
C772C	2058	C784RA	2058	C789GN	2020	C797L	2009	C827C	2030	C837B	2058	C848O	1617
C772C1(2S)	2058	C784RED	2058	C789H	2020	C797M	2009	C827D	2030	C837C	2058	C848R	1617
C772C2(2S)	2058	C784X	2058	C789J	2020	C797OR	2009	C827E	2030	C837D	2058	C848X	1617
C772CA	2058	C785(2S)	2058	C789K	2020	C797R	2009	C827F	2030	C837E	2058	C848Y	1617
C772CK(2S)	2058	C785-0	2058	C789L	2020	C797Y	2009	C827G	2030	C837F(2S)	2058	C849(2S)	1617
C772CL(2S)	2058	C785-B	2058	C789M	2020	C797Y	2009	C827GN	2030	C837G	2058	C849A	1617
C772CS(2S)	2058	C785-BN	2058	C789OR	2020	C801	2030	C827H	2030	C837GN	2058	C849B	1617
C772CU(2S)	2058	C785-BRN	2058	C789R	2020	C802	2030	C827J	2030	C837H(2S)	2058	C849C	1617
C772CV(2S)	2058	C785-O	2058	C789X	2020	C811	2016	C827K	2030	C837J	2058	C849D	1617
C772CX(2S)	2058	C785-ORG	2058	C789Y	2020	C814(2S)	2009	C827M	2030	C837K(2S)	2058	C849E	1617
C772D(2S)	2058	C785-R	2058	C790	2020	C814A	2009	C827OR	2030	C837KL	2058	C849F	1617
C772DJ(2S)	2058	C785-RED	2058	C790-O	2020	C814B	2009	C827R	2030	C837L(2S)	2058	C849G	1617
C772DU(2S)	2058	C785-Y	2058	C790-R	2020	C814C	2009	C827X	2030	C837M	2058	C849GN	1617
C772DV(2S)	2058	C785-YEL	2058	C790-Y	2020	C814D	2009	C827Y	2030	C837OR	2058	C849H	1617
C772DX(2S)	2058	C785A	2058	C790Y	2020	C814E	2009	C828	2009	C837R	2058	C849J	1617
C772DY(2S)	2058	C785B	2058	C793(2S)	2041	C814F	2009	C828(N)	2009	C837WF(2S)	2058	C849K	1617
C772E(2S)	2058	C785BL	2058	C793-BL	2041	C814G	2009	C828-O	2009	C837X	2058	C849L	1617
C772F(2S)	2058	C785BN(2S)	2058	C793-BLU	2041	C814GN	2009	C828-O(2S)	2009	C837Y	2058	C849M	1617
C772G	2058	C785BR	2058	C793-R	2041	C814H	2009	C828-OR	2009	C838	2009	C849OR	1617
C772GN	2058	C785BRN	2058	C793-RED	2041	C814J	2009	C828A(2S)	2009	C838-2	2009	C849R	1617
C772H	2058	C785C	2058	C793-Y	2041	C814K	2009	C828A(JAPAN)	2009	C838-O	2009	C849Y	1617
C772J	2058	C785D(2S)	2058	C793-YEL	2041	C814M	2009	C828AO	2009	C838A(2S)	2009	C849Y	1617
C772K(2S)	2058	C785E(2S)	2058	C793A	2041	C814OR	2009	C828AQ(2S)	2009	C838BL	2009	C850(2S)	1617
C772KB(2S)	2058	C785F	2058	C793B	2041	C814R	2009	C828AR(2S)	2009	C838C(2S)	2009	C850A	1617
C772KC(2S)	2058	C785G	2058	C793BL(2S)	2041	C814X	2009	C828AS(2S)	2009	C838E(2S)	2009	C850B	1617
C772KD(2S)	2058	C785GN	2058	C793C	2041	C814Y	2009	C828B	2009	C838F(2S)	2009	C850C	1617
C772KD1(2S)	2058	C785GR	2058	C793E	2041	C815(2S)	2009	C828C	2009	C838H(2S)	2009	C850D	1617
C772KD2(2S)	2058	C785H	2058	C793F	2041	C815-1	2009	C828D	2009	C838HF	2009	C850E	1617
C772L	2058	C785IA	2058	C793G	2041	C815A(2S)	2009	C828E(2S)	2009	C838I	2009	C850F	1617
C772M	2058	C785K	2058	C793GN	2041	C815B(2S)	2009	C828F(2S)	2009	C838J	2009	C850G	1617
C772OR	2058	C785L	2058	C793H	2041	C815BK	2009	C828G	2009	C838K(2S)	2009	C850GN	1617
C772R	2058	C785M	2058	C793J	2041	C815C(2S)	2009	C828GN	2009	C838L(2S)	2009	C850H	1617
C772RB-D(2S)	2058	C785O	2058	C793K	2041	C815D	2009	C828H(2S)	2009	C838M(2S)	2009	C850J	1617
C772RD(2S)	2058	C785R(2S)	2058	C793L	2041	C815E	2009	C828HR	2009	C838R	2009	C850K	1617
C772RS-D	2058	C785RA	2058	C793M	2041	C815F(2S)	2009	C828K(2S)	2009	C839	2009	C850L	1617
C772X	2058	C785RED	2058	C793OR	2041	C815G	2009	C828L	2009	C839-E	2009	C850M	1617
C772Y	2058	C785Y	2058	C793R(2S)	2041	C815GN	2009	C828LS(2S)	2009	C839-F	2009	C850OR	1617
C773(2S)	2009	C785X	2058	C793X	2041	C815H	2009	C828M	2009	C839A(2S)	2009	C850R	1617
C773A	2009	C785Y	2058	C793Y(2S)	2041	C815J	2009	C828OR	2009	C839B(2S)	2009	C850X	1617
C773B	2009	C785YEL	2058	C794	2041	C815K(2S)	2009	C828P(2S)	2009	C839C(2S)	2009	C850Y	1617
C773C(2S)	2009	C786(2S)	2016	C794A	2041	C815L(2S)	2009	C828PQ	2009	C839D(2S)	2009	C858(2S)	2016
C773D(2S)	2009	C786A	2016	C794B	2041	C815L	2009	C828Q	2009	C839E(2S)	2009	C858A	2016
C773E(2S)	2009	C786B	2016	C794C	2041	C815M(2S)	2009	C828Q-6	2009	C839F(2S)	2009	C858B	2016
C773F	2009	C786C	2016	C794D	2041	C815OR	2009	C828QRS(2S)	2009	C839G	2009	C858C	2016
C773G	2009	C786D	2016	C794E	2041	C815R	2009	C828R	2009	C839GN	2009	C858D	2016
C773GN	2009	C786E	2016	C794F	2041	C815S(2S)	2009	C828R(JAPAN)	2009	C839H(2S)	2009	C858E	2016
C773H	2009	C786F	2016	C794G	2041	C815SA(2S)	2009	C828R/494	2016	C839J(2S)	2009	C858F(2S)	2016
C773J	2009	C786G	2016	C794GN	2041	C815SC(2S)	2009	C828R-1	2009	C839J1	2009	C858FG(2S)	2016
C773K	2009	C786GN	2016	C794H	2041	C815X	2009	C828RA	2009	C839JH	2009	C858G(2S)	2016
C773L	2009	C786H	2016	C794J	2041	C815Y	2009	C828RH	2009	C839K	2009	C858GA	2016
C773M	2009	C786J	2016	C794K	2041	C816(2S)	2030	C828RS	2009	C839L(2S)	2009	C858GN	2016
C773OR	2009	C786K	2016	C794L	2041	C816A	2030	C828RST	2009	C839M(2S)	2009	C858H	2016
C773R	2009	C786L	2016	C794OR	2041	C816B	2030	C828RT	2009	C839OR	2009	C858J	2016
C773X	2009	C786M	2016	C794R(2S)	2041	C816C	2030	C828S(2S)	2009	C839R	2009	C858K	2016
C773Y	2009	C786OR	2016	C794RA	2041	C816D	2030	C828S(JAPAN)	2009	C839X	2009	C858L	2016
C784(2S)	2058	C786R(2S)	2016	C794X	2041	C816E	2030	C828T(2S)	2009	C839Y	2009	C858M	2016
C784-O(2S)	2058	C786X	2016	C794Y	2041	C816F	2030	C828X	2009	C847(2S)	1617	C858OR	2016
C784-B	2058	C786Y	2016	C796(2S)	1617	C816G	2030	C828Y(2S)	2009	C847A	1617	C858R	2016
C784-BN	2058	C787(2S)	2016	C796A	1617	C816GN	2030	C828YL	2009	C847B	1617	C858X	2016
C784-BN	2058	C787A	2016	C796B	1617	C816H	2030	C829	2009	C847C	1617	C858Y	2016
C784-BRN	2058	C787B	2016	C796C	1617	C816K(2S)	2030	C829-OR	2009	C847D	1617	C859(2S)	2016
C784-O(2S)	2058	C787C	2016	C796D	1617	C816L	2030	C829A(2S)	2009	C847E	1617	C859A	2016
C784-OR	2058	C787D	2016	C796E	1617	C816M	2030	C829AK	2009	C847F	1617	C859B	2016
C784-ORG	2058	C787E	2016	C796F	1617	C816OR	2030	C829B	2009	C847G	1617	C859D	2016
C784-R	2058	C787F	2016	C796G	1617	C816R	2030	C829BC(2S)	2009	C847GN	1617	C859E(2S)	2016
C784-RED	2058	C787G	2016	C796GN	1617	C816X	2030	C829BJ	2009	C847H	1617	C859F(2S)	2016
C784-Y	2058	C787GN	2016	C796H	1617	C816Y	2030	C829BK	2009	C847J	1617	C859FG(2S)	2016
C784A(2S)	2058	C787H	2016	C796J	1617	C826(2S)	2030	C829C	2009	C847K	1617	C859G(2S)	2016
C784B	2058	C787K	2016	C796K	1617	C826A	2030	C829CL	2009	C847L	1617	C859K(2S)	2016
C784BN(2S)	2058	C787L	2016	C796L	1617	C826B	2030	C829D(2S)	2009	C847M	1617	C859L	2016
C784BN-1	2058	C787M	2016	C796M	1617	C826C	2030	C829E	2009	C847OR	1617	C859GM	2016
C784BRN	2058	C787OR	2016	C796OR	1617	C826D	2030	C829G	2009	C847R	1617	C859GN	2016
C784C	2058	C787R	2016	C796R	1617	C826E	2030	C829GN	2009	C847X	1617	C859H	2016
C784D	2058	C787X	2016	C796X	1617	C826F	2030	C829H	2009	C848(2S)	1617	C859J	2016

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
C859K	2016	C875-1E(2S)	2030	C896GN	1617	C911	2017	C921K	2016	C928(2S)	2016	C930X	2016
C859L	2016	C875-1F(2S)	2030	C896J	1617	C911A	2017	C921Y	2016	C928A	2016	C930Y	2016
C859M	2016	C875-2(2S)	2030	C896K	1617	C912(2S)	2016	C922(2S)	2009	C928B(2S)	2016	C932(2S)	2017
C859OR	2016	C875-2C(2S)	2030	C896L	1617	C912M	1617	C922A(2S)	2009	C928C(2S)	2016	C932A	2017
C859R	2016	C875-2D(2S)	2030	C896M	1617	C914	1617	C922B(2S)	2009	C928D(2S)	2016	C932B	2017
C859X	2016	C875-2E(2S)	2030	C896OR	1617	C914A	1617	C922C(2S)	2009	C928E(2S)	2016	C932BK	2017
C859Y	2016	C875-2F(2S)	2030	C896R	1617	C915	1617	C922K(2S)	2009	C928F	2016	C932C	2017
C860(2S)	2016	C875-3(2S)	2030	C896X	1617	C915A	1617	C922L(2S)	2009	C928G	2016	C932D	2017
C860A	2016	C875-3C(2S)	2030	C896Y	1617	C916	2020	C922M(2S)	2009	C928GN	2016	C932E(2S)	2017
C860B	2016	C875-3D(2S)	2030	C897(2S)	2041	C917(2S)	2016	C923(2S)	2016	C928H	2016	C932F	2017
C860C(2S)	2016	C875-3E(2S)	2030	C897A(2S)	2041	C917A	2016	C923A(2S)	2016	C928J	2016	C932G	2017
C860D(2S)	2016	C875-3F(2S)	2030	C897B(2S)	2041	C917B	2016	C923B(2S)	2016	C928K	2016	C932GN	2017
C860E(2S)	2016	C875B	2030	C898(2S)	2041	C917C	2016	C923C(2S)	2016	C928L	2016	C932H	2017
C860F	2016	C875C(2S)	2030	C898A(2S)	2041	C917D	2016	C923D(2S)	2016	C928M	2016	C932J	2017
C860G	2016	C875D(2S)	2030	C898B(2S)	2041	C917E	2016	C923E(2S)	2016	C928OR	2016	C932K	2017
C860GN	2016	C875DL	2030	C899	1617	C917F	2016	C923F(2S)	2016	C928R	2016	C932L	2017
C860H	2016	C875E(2S)	2030	C899A	1617	C917G	2016	C923G	2016	C928X	2016	C932M	2017
C860J	2016	C875EL	2030	C899B	1617	C917GN	2016	C923GN	2016	C928Y	2016	C932OR	2017
C860K	2016	C875F(2S)	2030	C899C	1617	C917H	2016	C923H	2016	C929(2S)	2016	C932R	2017
C860L	2016	C875G	2030	C899D	1617	C917J	2016	C923K	2016	C929-0(2S)	2016	C932X	2017
C860M	2016	C875GN	2030	C899E	1617	C917K(2S)	2016	C923L	2016	C929-O	2016	C932Y	2017
C860OR	2016	C875J	2030	C899F	1617	C917L	2016	C923M	2016	C929A	2016	C933(2S)	2009
C860R	2016	C875K	2030	C899G	1617	C917M	2016	C923OR	2016	C929B(2S)	2016	C933A	2009
C860S	2016	C875L	2030	C899GN	1617	C917OR	2016	C923R	2016	C929C(2S)	2016	C933B	2009
C860Y	2016	C875M	2030	C899H	1617	C917R	2016	C923X	2016	C929C1(2S)	2016	C933BB(2S)	2009
C863(2S)	2016	C875OR	2030	C899J	1617	C917X	2016	C923Y	2016	C929D(2S)	2016	C933C(2S)	2009
C863A	2016	C875X	2030	C899K(2S)	1617	C917Y	2016	C924(2S)	2016	C929D1(2S)	2016	C933D(2S)	2009
C863B	2016	C875Y	2030	C899L	1617	C918(2S)	2016	C924A	2009	C929DE(2S)	2016	C933E(2S)	2009
C863C	2016	C876(2S)	2030	C899M	1617	C918A	2009	C924B	2016	C929DE(2S)	2016	C933F(2S)	2009
C863D	2016	C876-E	2030	C899OR	1617	C918AAL	2009	C924C	2016	C929DU(2S)	2016	C933FB	2009
C863E	2016	C876-F	2030	C899R	1617	C918B	2009	C924D	2016	C929DV(2S)	2016	C933FP(2S)	2009
C863F	2016	C876A	2030	C899X	1617	C918C	2009	C924E(2S)	2016	C929E(2S)	2016	C933G(2S)	2009
C863G	2016	C876B	2030	C899Y	1617	C918D	2009	C924F(2S)	2016	C929ED(2S)	2016	C933GN	2009
C863GN	2016	C876C(2S)	2030	C900(2S)	2016	C918E	2009	C924G	2016	C929EZ	2016	C933H	2009
C863H	2016	C876D(2S)	2030	C900-OR	2016	C918F	2009	C924GN	2016	C929F(2S)	2016	C933J	2009
C863J	2016	C876E(2S)	2030	C900A(2S)	2016	C918G	2009	C924H	2016	C929FK(2S)	2016	C933K	2009
C863K	2016	C876F(2S)	2030	C900AF	2016	C918GN	2009	C924J	2016	C929G	2016	C933L	2009
C863L	2016	C876G	2030	C900B(2S)	2016	C918H	2009	C924K	2016	C929GN	2016	C933M	2009
C863M	2016	C876GN	2030	C900C(2S)	2016	C918J	2009	C924L	2016	C929H	2016	C933OR	2009
C863OR	2016	C876H	2030	C900D(2S)	2016	C918K	2009	C924M(2S)	2016	C929J	2016	C933R	2009
C863R	2016	C876J	2030	C900E(2S)	2016	C918L	2009	C924OR	2016	C929K	2016	C933X	2009
C863X	2016	C876K	2030	C900F(2S)	2016	C918LF	2009	C924R	2016	C929L	2016	C933Y	2009
C863Y	2016	C876L	2030	C900G	2016	C918M	2009	C924X	2016	C929M	2016	C934	1617
C864(2S)	2016	C876M	2030	C900J	2016	C918OR	2009	C924Y	2016	C929NP	2016	C934-O	1617
C870(2S)	2009	C876OR	2030	C900K	2016	C918R	2009	C925(2S)	2009	C929OR	2016	C934A	1617
C870A	2009	C876R	2030	C900L(2S)	2016	C918X	2009	C925A	2009	C929R	2016	C934B	1617
C870B	2009	C876TV(2S)	2030	C900M(2S)	2016	C918XL	2009	C925B	2009	C929SP	2016	C934C(2S)	1617
C870C	2009	C876TVD(2S)	2030	C900OR	2016	C918Y	2009	C925C	2009	C929X	2016	C934D(2S)	1617
C870D	2009	C876TV-E	2030	C900R	2016	C920(2S)	2009	C925D	2009	C929Y	2016	C934E(2S)	1617
C870E(2S)	2009	C876TVE(2S)	2030	C900S	2016	C920-0Q	2009	C925E	2009	C930(2S)	2016	C934F(2S)	1617
C870F(2S)	2009	C876TVF(2S)	2030	C900SA	2016	C920-OR	2009	C925F	2009	C930-OR	2016	C934G(2S)	1617
C870FL	2009	C876TV-F	2030	C900SB	2016	C920A	2009	C925G	2009	C930A	2016	C934GN	1617
C870G	2009	C876TVF	2030	C900SC	2016	C920B	2009	C925GN	2009	C930B(2S)	2016	C934H	1617
C870GN	2009	C876X	2030	C900SD	2016	C920C	2009	C925H	2009	C930BK(2S)	2016	C934J	1617
C870M	2009	C876Y	2030	C900U(2S)	2016	C920CL	2009	C925J	2009	C930C(2S)	2016	C934K	1617
C870J	2009	C877	1617	C900UE	2016	C920D	2009	C925K	2009	C930C-IF	2016	C934L	1617
C870K	2009	C878	1617	C900V	2016	C920E(2S)	2009	C925L	2009	C930CK(2S)	2016	C934M	1617
C870L	2009	C879	2016	C900VE	2016	C920F	2009	C925M	2009	C930CL(2S)	2016	C934OR	1617
C870M	2009	C883	2020	C900X	2016	C920G	2009	C925OR	2009	C930CS(2S)	2016	C934Q	1617
C870OR	2009	C889(2S)	2041	C900Y	2016	C920GN	2009	C925R	2009	C930D(2S)	2016	C934R	1617
C870R	2009	C892	2020	C903	2009	C920H	2009	C925X	2009	C930DB	2016	C934X	1617
C870X	2009	C894(2S)	2009	C904	2009	C920L	2009	C925Y	2009	C930DC	2016	C934Y	1617
C870Y	2009	C894A	2009	C906	1617	C920M	2009	C927(2S)	2016	C930DE(2S)	2016	C936(2S)	2055
C871(2S)	2009	C894B	2009	C906F	1617	C920OR	2009	C927A(2S)	2016	C930DK	2016	C936A	2055
C871-G	2009	C894C	2009	C907(2S)	1617	C920Q(2S)	2009	C927B(2S)	2016	C930DS(2S)	2016	C936B	2055
C871A	2009	C894D	2009	C907A(2S)	1617	C920R(2S)	2009	C927C(2S)	2016	C930DT(2S)	2016	C936BK	2055
C871AM	2009	C894E	2009	C907AC(2S)	1617	C920X	2009	C927C1(2S)	2016	C930DT-2(2S)	2016	C936C	2055
C871B	2009	C894F	2009	C907AD(2S)	1617	C920Y	2009	C927CK	2016	C930DX(2S)	2016	C936D	2055
C871C	2009	C894G	2009	C907AH(2S)	1617	C921(2S)	2016	C927CT	2016	C930DZ(2S)	2016	C936E	2055
C871D(2S)	2009	C894GN	2009	C907B	1617	C921A	2016	C927CU(2S)	2016	C930E(2S)	2016	C936F	2055
C871E(2S)	2009	C894H	2009	C907C(2S)	1617	C921B	2016	C927CW(2S)	2016	C930E(JAPAN)	2016	C936G	2055
C871F(2S)	2009	C894J	2009	C907D(2S)	1617	C921C	2016	C927D(2S)	2016	C930EP(2S)	2016	C936GN	2055
C871G(2S)	2009	C894K	2009	C907E	1617	C921C1(2S)	2016	C927E(2S)	2016	C930ET(2S)	2016	C936H	2055
C871GN	2009	C894L	2009	C907F	1617	C921CL	2016	C927F	2016	C930EV(2S)	2016	C936J	2055
C871H	2009	C894M	2009	C907G	1617	C921D	2016	C927G	2016	C930EX(2S)	2016	C936K	2055
C871J	2009	C894OR	2009	C907GN	1617	C921E	2016	C927GN	2016	C930F(2S)	2016	C936L	2055
C871K	2009	C894R	2009	C907H(2S)	1617	C921F	2016	C927H	2016	C930G	2016	C936M	2055
C871L	2009	C894X	2009	C907HA(2S)	1617	C921G	2016	C927J	2016	C930GN	2016	C936OR	2055
C871M	2009	C894Y	2009	C907J	1617	C921GN	2016	C927K	2016	C930H	2016	C936R	2055
C871OR	2009	C896(2S)	1617	C907K	1617	C921H	2016	C927L	2016	C930J	2016	C936X	2055
C871R	2009	C896A	1617	C907L	1617	C921J	2016	C927M	2016	C930K	2016	C936Y	2055
C871X	2009	C896B	1617	C907M	1617	C921K(2S)	2016	C927OR	2016	C930L	2016	C938(2S)	2009
C871Y	2009	C896C	1617	C907OR	2016	C921L(2S)	2016	C927R	2016	C930M	2016	C938-O	2009
C875(2S)	2030	C896D	1617	C907R	1617	C921M(2S)	2016	C927X	2016	C930NP	2016	C938A(2S)	2009
C875-1(2S)	2030	C896E	1617	C907X	1617	C921OR	2016	C927XL	2016	C930OR	2016	C938B(2S)	2009
C875-1C(2S)	2030	C896F	1617	C907Y	1617	C921R	2016	C927Y	2016	C930R	2016	C938C(2S)	2009
C875-1D(2S)	2030	C896G	1617	C909	2017	C921W	2016	C927Z	2016	C930SP	2016	C938D	2009

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C938E	2009	C941TK	2009	C9595B(2S)	2030	C979-R	1617	C1000D	2016	C1022-Y(2S)	2016	C1023H(2I)	2016
C938F	2009	C945TP	2009	C9596C(2S)	2030	C979-Y	1617	C1000E	2016	C1023A	2016	C1023F	2016
C938G	2009	C945TQ(2S)	2009	C9595D(2S)	2030	C979A	1617	C1000F	2016	C1023B	2016	C1023GN	2016
C938GN	2009	C945X(2S)	2009	C959X	2030	C979A-O	1617	C1000G	2016	C1023C	2016	C1023H	2016
C938H	2009	C945Y	2009	C959Y	2030	C979A-R	1617	C1000G-BL	2016	C1023D	2016	C1023J	2016
C938J	2009	C945Y(KOREA)	2009	C963	1617	C980	2009	C1000GBL	2016	C1023E	2016	C1035L	2016
C938K	2009	C947(2S)	2016	C964	1617	C980AG	2009	C1000G-GR	2016	C1023F	2016	C1035M	2016
C938L	2009	C947A	2016	C965	1617	C980AG-O	2009	C1000GN	2016	C1023G(2S)	2016	C1035OR	2016
C938M	2009	C947B	2016	C966(2S)	1617	C980AG-R	2009	C1000GR	2016	C1023GN	2016	C1035R	2009
C938OR	2009	C947C	2016	C966A	1617	C980G	2009	C1000H	2016	C1023H	2016	C1035S	2009
C938P	2009	C947D	2016	C966B	1617	C980G-O	2009	C1000I	2016	C1023J	2016	C1035T	2016
C938X	2009	C947E	2016	C966C	1617	C980G-W	2009	C1000K	2016	C1023K	2016	C1035U	2016
C938Y	2009	C947F	2016	C966D	1617	C980G-Y	2009	C1000L	2016	C1023L	2016	C1035V(TRANS)	2016
C941(2S)	2009	C947G	2016	C966E	1617	C984(2S)	2009	C1000M	2016	C1023M	2016	C1035W(TRANS)	2016
C941-04	2009	C947GN	2016	C966F	1617	C984A(2S)	2009	C1000N	2016	C1023N	2016	C1035X(TRANS)	2016
C941-0Y	2009	C947H	2016	C966G	1617	C984B(2S)	2009	C1000OR	2016	C1023OR	2016	C1036C	2016
C941-O(2S)	2009	C947J	2016	C966GN	1617	C984C(2S)	2009	C1000X	2016	C1023X	2016	C1036D	2016
C941-OY	2009	C947K	2016	C966H	1617	C984D	2009	C1000Y(2S)	2016	C1023Y	2016	C1036E	2016
C941-R(2S)	2009	C947L	2016	C966J	1617	C984E	2009	C1002	2016	C1026	2016	C1036F	2016
C941-Y(2S)	2009	C947M	2016	C966K	1617	C984F	2009	C1003	2009	C1026(TRANS)	2016	C1036G	2016
C941K	2009	C947OR	2016	C966L	1617	C984G	2009	C1004	2009	C1026-C	2016	C1036GN	2016
C941O	2009	C947R	2016	C966M	1617	C984GN	2009	C1004(2S)	2009	C1026-R	2016	C1036H	2016
C941R(2S)	2009	C947X	2016	C966OR	1617	C984H	2009	C1004(TRANS)	2009	C1026A(TRANS)	2016	C1036J	2016
C941TM	2009	C947Y	2016	C966R	1617	C984J	2009	C1004A(2S)	2009	C1026B(TRANS)	2016	C1036K	2016
C941TM-O	2009	C948(2S)	2016	C966X	1617	C984L	2009	C1004A(TRANS)	2009	C1026BL	2016	C1036L	2016
C941Y	2009	C948A	2016	C966Y	1617	C984M	2009	C1004B	2009	C1026C	2016	C1036M	2016
C942	1617	C948B	2016	C967(2S)	1617	C984OR	2009	C1004C	2009	C1026D	2016	C1036OR	2016
C943(2S)	1617	C948D	2016	C967A	1617	C984R	2009	C1004D	2009	C1026E	2016	C1036R	2016
C943A(2S)	1617	C948E	2016	C967B	1617	C984X	2009	C1004E	2009	C1026F	2016	C1036X	2016
C943B(2S)	1617	C948F	2016	C967C	1617	C984Y	2009	C1004F	2009	C1026G(2S)	2016	C1036Y	2016
C943C(2S)	1617	C948G	2016	C967D	1617	C985	2016	C1004G	2009	C1026H	2016	C1044(2S)	2016
C943D	1617	C948GN	2016	C967E	1617	C985A	2016	C1004GN	2009	C1026I	2016	C1045	2016
C943E	1617	C948H	2016	C967F	1617	C987	2016	C1004H	2009	C1026J	2016	C1045(2S)	2016
C943F	1617	C948J	2016	C967G	1617	C987A	2016	C1004J	2009	C1026K	2016	C1045B(2S)	2016
C943G	1617	C948K	2016	C967GN	1617	C988	2016	C1004K	2009	C1026L	2016	C1045C(2S)	2016
C943GN	1617	C948L	2016	C967H	1617	C988A	2016	C1004L	2009	C1026M	2016	C1045D(2S)	2016
C943H	1617	C948M	2016	C967J	1617	C988B	2016	C1004M	2009	C1026N	2016	C1045E(2S)	2016
C943J	1617	C948OR	2016	C967K	1617	C990	2020	C1004OR	2009	C1026OR	2016	C1045F	2016
C943K	1617	C948R	2016	C967L	1617	C990(2S)	2017	C1004R	2009	C1026R	2016	C1045G	2016
C943L	1617	C948X	2016	C967M	1617	C993D	2017	C1004X	2009	C1026X	2016	C1045H	2016
C943M	1617	C948Y	2016	C967OR	1617	C993E	2017	C1004Y	2009	C1026Y(2S)	2016	C1045I	2016
C943OR	1617	C949	2016	C967R	1617	C994	2017	C1005	2009	C1026(TRANS)	2016	C1045J	2016
C943R	1617	C950	2016	C967X	1617	C997(2S)	2016	C1005(2S)	2009	C1026-OR	2016	C1045K	2016
C943X	1617	C951	2009	C967Y	1617	C997A	2016	C1005A	2009	C1026A(TRANS)	2016	C1045L	2016
C943Y	1617	C952	2009	C968(2S)	2009	C997B	2016	C1005A(2S)	2009	C1026B(TRANS)	2016	C1045M	2016
C944(2S)	2009	C953	1617	C968A	2009	C997C	2009	C1005B	2009	C1026B2C	2041	C1045N	2016
C944S	2009	C954	1617	C968B	2009	C997D	2009	C1005C	2009	C1026C(2S)	2041	C1045OR	2016
C945	2009	C955	1617	C968C	2009	C997E	2009	C1005D	2009	C1026D(2S)	2041	C1045R(2S)	2016
C945(JAPAN)	2009	C956	1617	C968D	2009	C997F	2009	C1005E	2009	C1026E	2041	C1045S	2016
C945-O	2009	C957(2S)	2016	C968E	2009	C997G	2009	C1005F	2009	C1026F	2041	C1045Y	2016
C945-O(2S)	2009	C957A	2016	C968F	2009	C997GN	2009	C1005G	2009	C1026G	2041	C1046	2016
C945-OR	2009	C957AL	2016	C968G	2009	C997H	2009	C1005GN	2009	C1026H	2041	C1046(2S)	2016
C945-YX	2009	C957B	2016	C968GN	2009	C997J	2009	C1005H	2009	C1026I	2041	C1046-OR	2016
C945A(2S)	2009	C957C	2016	C968H	2009	C997K	2009	C1005J	2009	C1026J	2041	C1046A(TRANS)	2016
C945AK	2009	C957D	2016	C968J	2009	C997L	2009	C1005K	2009	C1026K	2041	C1046B(TRANS)	2016
C945AP(2S)	2009	C957E	2016	C968K	2009	C997M	2009	C1005L	2009	C1026L	2041	C1046C	2016
C945AQ(2S)	2009	C957F	2016	C968L	2009	C997OR	2009	C1005M	2009	C1026OR	2041	C1046D	2016
C945AR	2009	C957G	2016	C968M	2009	C997R	2009	C1005OR	2009	C1026R	2041	C1046E	2016
C945B(2S)	2009	C957GN	2016	C968OR	2009	C997X	2009	C1005R	2009	C1026S	2041	C1046F	2016
C945C(2S)	2009	C957H	2016	C968P(2S)	2009	C997Y	2009	C1005S	2009	C1026T	2041	C1046G	2016
C945D(2S)	2009	C957J	2016	C968R	2009	C999(2S)	2009	C1005Y	2009	C1026U	2041	C1046GN	2016
C945E(2S)	2009	C957K	2016	C968X	2009	C999A	2009	C1006(2S)	2009	C1026V	2041	C1046H	2016
C945F(2S)	2009	C957L	2016	C968Y	2009	C999B	2009	C1006A	2009	C1026W(TRANS)	2016	C1046J	2016
C945G(2S)	2009	C957M	2016	C969	1617	C999C	2009	C1006A(2S)	2009	C1026X(TRANS)	2016	C1046K	2016
C945GM	2009	C957OR	2016	C970	1617	C999D	2009	C1006B(2S)	2009	C1026Y(TRANS)	2016	C1046L	2016
C945H(2S)	2009	C957R	2016	C972(2S)	2030	C999E	2009	C1006C(2S)	2009	C1026Z	2016	C1046M	2016
C945J	2009	C957X	2016	C972A	2030	C999F	2009	C1007(2S)	2009	C1026C	2016	C1046N	2016
C945K(2S)	2009	C957XL	2016	C972B	2030	C999G	2009	C1008(2S)	2009	C1026D	2016	C1046OR	2016
C945L(2S)	2009	C957Y	2016	C972C(2S)	2030	C999GN	2009	C1008A	2009	C1026E	2016	C1046R	2016
C945LP	2009	C959(2S)	2030	C972D(2S)	2030	C999H	2009	C1008B(KOREA)	2009	C1026F	2016	C1046S	2016
C945LP(JAPAN)	2009	C959A(2S)	2030	C972E(2S)	2030	C999J	2009	C1009	2009	C1026G(2S)	2016	C1046Y	2016
C945LQ	2009	C959B(2S)	2030	C972F	2030	C999K	2009	C1009A	2009	C1026GN	2016	C1047(2S)	2016
C945M(2S)	2009	C959C(2S)	2030	C972G	2030	C999L	2009	C1009F1	2009	C1026H	2016	C1047A	2016
C945OR	2009	C959D(2S)	2030	C972GN	2030	C999M	2009	C1009F2	2009	C1026I	2016	C1047B(2S)	2016
C945P(2S)	2009	C959E	2030	C972H	2030	C999OR	2009	C1009F3	2009	C1026J	2016	C1047C	2016
C945P(JAPAN)	2009	C959F	2030	C972J	2030	C999R	2009	C1009F4	2009	C1026K	2016	C1047D(2S)	2016
C945P1	2009	C959G	2030	C972K	2030	C999X	2009	C1010	2009	C1026L	2016	C1047E(2S)	2016
C945PJ	2009	C959GN	2030	C972L	2030	C999Y	2009	C1010(TRANS)	2016	C1026M	2016	C1047F	2016
C945PQ	2009	C959H	2030	C972M	2030	C1000	2030	C1010A	2016	C1026N	2016	C1047G	2016
C945Q(2S)	2009	C959J	2030	C972OR	2030	C1000(2S)	2016	C1010A(TRANS)	2016	C1026O	2016	C1047GN	2016
C945Q(JAPAN)	2009	C959K	2030	C972R	2030	C1000-BL(2S)	2016	C1010B	2016	C1026P	2016	C1047GR	2016
C945QL(2S)	2009	C959L	2030	C972X	2030	C1000-GN(2S)	2016	C1010B(TRANS)	2016	C1026Q	2016	C1047H	2016
C945QP(2S)	2009	C959M(2S)	2030	C972Y	2030	C1000-Y(2S)	2016	C1010C(TRANS)	2016	C1026R	2016	C1047J	2016
C945R(2S)	2009	C959OR	2030	C976	2030	C1000A	2016	C1010C(2S)	2016	C1026S	2016	C1047K	2016
C945RA	2009	C959R	2030	C976TV	2030	C1000B	2016	C1019C	2020	C1026T	2016	C1047L	2016
C945S(2S)	2009	C959S(2S)	2030	C979	1617	C1000BL	2016	C1023	2016	C1026U(2S)	2016		
C945T(2S)	2009	C959S(2S)	2030	C979-O	1617	C1000C	2016	C1023-O(2S)	2016				

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C1047M	2016	C1100C	2055	C1126L	2058	C1172B(2S)	2055	C1213D(2S)	2009	C1296	2055	C1321	2016
C1047R	2016	C1100D	2055	C1126M	2058	C1172C	2055	C1213D-24	2009	C1300	2055	C1321Q2	2016
C1047X	2016	C1100E	2055	C1126OR	2058	C1172D	2055	C1213E	2009	C1308(2S)	2055	C1321Q3	2016
C1047Y	2016	C1100F	2055	C1126R	2058	C1172E	2055	C1213F	2009	C1308K(2S)	2055	C1321Q4	2016
C1051(2S)	2041	C1100G	2055	C1126X	2058	C1172F	2055	C1213G	2009	C1308L	2055	C1321Q5	2016
C1051L	2041	C1100GN	2055	C1126Y	2058	C1172G	2055	C1213GN	2009	C1308N	2055	C1322	2041
C1052	2030	C1100H	2055	C1128(2S)	2058	C1172GM	2055	C1213H	2009	C1309(2S)	2055	C1325(2S)	2055
C1053	2030	C1100J	2055	C1128-O	2058	C1172H	2055	C1213J	2009	C1310	2009	C1325A(2S)	2055
C1054	2016	C1100K	2055	C1128A	2058	C1172J	2055	C1213K	2009	C1311	2009	C1325AK	2055
C1060	2020	C1100L	2055	C1128B	2058	C1172K	2055	C1213L	2009	C1312(2S)	2016	C1325AL	2055
C1060(2S)	2020	C1100M	2055	C1128BL	2058	C1172L	2055	C1213M	2009	C1312A	2016	C1327(2S)	2016
C1060A	2020	C1100OR	2055	C1128C	2058	C1172M	2055	C1213OR	2009	C1312BC	2016	C1327FS(2S)	2016
C1060A(2S)	2020	C1100R	2055	C1128D(2S)	2058	C1172N	2055	C1213Q	2009	C1312C	2016	C1327R	2016
C1060B	2020	C1100X	2055	C1128G	2058	C1172R	2055	C1213Q	2009	C1312D	2016	C1327S	2016
C1060B(2S)	2020	C1100Y	2055	C1128H	2058	C1172X	2055	C1213X	2009	C1312E	2016	C1327T	2016
C1060BL	2020	C1101	2055	C1128M	2058	C1172Y	2055	C1213Y	2009	C1312F(2S)	2016	C1327TU	2016
C1060BM(2S)	2020	C1101(TRANS)	2055	C1128R	2058	C1173(2S)	2020	C1214(2S)	2009	C1312G(2S)	2016	C1327TV	2016
C1060BY	2020	C1101A	2055	C1128S	2058	C1173-0(2S)	2020	C1214A(2S)	2009	C1312GN	2016	C1327U(2S)	2016
C1060C(2S)	2020	C1101A(TRANS)	2055	C1128Y	2058	C1173-B	2020	C1214B(2S)	2009	C1312H(2S)	2016	C1328(2S)	2016
C1060D(2S)	2020	C1101B	2055	C1129(2S)	2058	C1173-C	2020	C1214C(2S)	2009	C1312J	2016	C1328T(2S)	2016
C1060E	2020	C1101B(TRANS)	2055	C1129-0	2058	C1173-GR(2S)	2020	C1214D(2S)	2009	C1312K	2016	C1328U(2S)	2016
C1060F	2020	C1101C(2S)	2055	C1129A	2058	C1173-O(2S)	2020	C1215(2S)	2016	C1312L	2016	C1331(TRANS)	2016
C1060G	2020	C1101D(2S)	2055	C1129B	2058	C1173-R(2S)	2020	C1215C	2016	C1312K	2016	C1335	2009
C1060GN	2020	C1101E(2S)	2055	C1129BL	2058	C1173-Y(2S)	2020	C1215D	2016	C1312M	2016	C1335(TRANS)	2016
C1060H	2020	C1101F(2S)	2055	C1129BL	2058	C1173A	2020	C1215E	2016	C1312OR	2016	C1335-OR	2016
C1060J	2020	C1101G	2055	C1129C	2058	C1173B	2020	C1215F	2016	C1312R	2016	C1335A	2016
C1060K	2020	C1101GN	2055	C1129G	2058	C1173GR	2020	C1215G	2016	C1312X	2016	C1335A(TRANS)	2016
C1060L	2020	C1101M	2055	C1129M	2058	C1173R(2S)	2020	C1215GN	2016	C1312Y(2S)	2016	C1335B	2016
C1060M	2020	C1101H	2055	C1129R	2058	C1173X(2S)	2020	C1215H	2016	C1313(2S)	2016	C1335B(TRANS)	2016
C1060OR	2020	C1101J	2055	C1129Y	2058	C1173XO	2020	C1215J	2016	C1313B	2016	C1335C(2S)	2016
C1060R	2020	C1101K	2055	C1130	2055	C1173XY	2020	C1215K	2016	C1313Y(2S)	2016	C1335D(2S)	2016
C1060S	2020	C1101L(2S)	2055	C1132	2055	C1173Y	2020	C1215L	2016	C1317(2S)	2009	C1335E(2S)	2016
C1060X	2020	C1101M	2055	C1133	2055	C1175(2S)	2009	C1215M	2016	C1317-OR	2009	C1335F(2S)	2016
C1060Y	2020	C1101OR	2055	C1133D	2055	C1175C(2S)	2009	C1215OR	2016	C1317-R	2009	C1335G	2016
C1061	2020	C1101R	2055	C1150	2030	C1175CTV	2009	C1215R	2016	C1317A	2009	C1335GN	2016
C1061(2S)	2020	C1101X	2055	C1150(TRANS)	2030	C1175D(2S)	2009	C1215X	2016	C1317BC	2009	C1335H	2016
C1061-C	2020	C1101Y	2055	C1151	2055	C1175E(2S)	2009	C1215Y	2016	C1317C	2009	C1335I	2016
C1061A	2020	C1107	2020	C1151(TRANS)	2055	C1175F(2S)	2009	C1216	2058	C1317E	2009	C1335J	2016
C1061A(TRANS)	2020	C1107Q(2S)	2020	C1151A	2055	C1180	2016	C1218(2S)	2030	C1317G	2009	C1335K	2016
C1061B	2020	C1107Y	2020	C1151A(TRANS)	2055	C1182	2016	C1219	2009	C1317GR	2009	C1335L	2016
C1061B(TRANS)	2020	C1108	2020	C1153(2S)	2055	C1182B(2S)	2016	C1220	2009	C1317L	2009	C1335M	2016
C1061BM	2020	C1109	2020	C1153A	2055	C1182C(2S)	2016	C1220(TRANS)	2009	C1317NC	2009	C1335OR	2016
C1061C(2S)	2020	C1109(TRANS)	2020	C1166	2009	C1182D(2S)	2016	C1220-003	2009	C1317OR	2009	C1335R	2016
C1061D(2S)	2020	C1110	2020	C1166(TRANS)	2009	C1184(2S)	2055	C1220A(TRANS)	2009	C1317Q(2S)	2009	C1335X	2016
C1061K	2020	C1115(2S)	2041	C1166-GR	2009	C1184A(2S)	2055	C1220AP	2009	C1317R(2S)	2009	C1335Y	2016
C1061KA	2020	C1117	2016	C1166-O	2009	C1184B(2S)	2055	C1220AQ	2009	C1317S(2S)	2009	C1336(TRANS)	2016
C1061KB	2020	C1117A	2016	C1166-R	2009	C1184C(2S)	2055	C1220AR	2009	C1317T(2S)	2009	C1336JK	2016
C1061KC	2020	C1117B	2016	C1166-Y	2009	C1184D(2S)	2055	C1220E(2S)	2009	C1317V	2009	C1342(2S)	2016
C1061SC	2020	C1117C	2016	C1166A(TRANS)	2009	C1184E(2S)	2055	C1220P	2009	C1317Y	2009	C1342-OR	2016
C1061T(2S)	2020	C1117D	2016	C1166B(TRANS)	2009	C1187(2S)	2058	C1220Q	2009	C1318(2S)	2009	C1342A(2S)	2016
C1061TB(2S)	2020	C1117E	2016	C1166C	2009	C1187R(KOREA)	2058	C1220R	2009	C1318B	2009	C1342B(2S)	2016
C1066	2016	C1117F	2016	C1166E	2009	C1188	2058	C1222	2016	C1318C(2S)	2009	C1342C(2S)	2016
C1067	2016	C1117G	2016	C1166F	2009	C1189	2058	C1222(TRANS)	2016	C1318E	2009	C1342D	2016
C1069	2030	C1117GN	2016	C1166G	2009	C1189L	2058	C1222A	2016	C1318F	2009	C1342E	2016
C1070(2S)	2016	C1117H	2016	C1166GN	2009	C1204(2S)	2009	C1222A(TRANS)	2016	C1318G	2009	C1342F	2016
C1070-1	2016	C1117J	2016	C1166H	2009	C1204B(2S)	2009	C1222B	2016	C1318GN	2009	C1342G	2016
C1070-2	2016	C1117K	2016	C1166K	2009	C1204C(2S)	2009	C1222B(TRANS)	2016	C1318H	2009	C1342GN	2016
C1070-B	2016	C1117L	2016	C1166L	2009	C1204D(2S)	2009	C1222C(2S)	2016	C1318J	2009	C1342J	2016
C1071(2S)	1617	C1117M	2016	C1166M	2009	C1205(2S)	2009	C1222D(2S)	2016	C1318K	2009	C1342K	2016
C1072(2S)	2030	C1117OR	2016	C1166O(2S)	2009	C1205A(2S)	2009	C1222E	2016	C1318L	2009	C1342L	2016
C1072A(2S)	2030	C1117R	2016	C1166OR	2009	C1205B(2S)	2009	C1222H	2016	C1318M	2009	C1342M	2016
C1079(2S)	2041	C1117X	2016	C1166U	2009	C1205C(2S)	2009	C1222U	2016	C1318P	2009	C1342OR	2016
C1079-R	2041	C1117Y	2016	C1166Y(2S)	2009	C1206	2030	C1236	2058	C1318PR	2009	C1342R	2016
C1079-Y	2041	C1123(2S)	2009	C1167(2S)	2055	C1206B	2030	C1240	2058	C1318Q(2S)	2009	C1342Y	2016
C1080(2S)	2041	C1123A	2009	C1170(2S)	2055	C1209(2S)	2009	C1244(2S)	2009	C1318QP	2009	C1342Y	2016
C1080-R	2041	C1123B	2009	C1170-OR	2055	C1209C(2S)	2009	C1246	2009	C1318QR	2009	C1343(2S)	2041
C1080-Y	2041	C1123C	2009	C1170A(2S)	2055	C1209D	2009	C1246A	2009	C1318R(2S)	2009	C1343-05	2041
C1080B	2041	C1123D	2009	C1170B(2S)	2055	C1209E	2009	C1246R	2009	C1318Y	2009	C1343B(2S)	2041
C1080LB	2041	C1123E	2009	C1170BFA-2	2055	C1210(2S)	2009	C1246S	2009	C1319	2016	C1343BL	2041
C1084	2058	C1123F	2009	C1170C	2055	C1210Y	2009	C1246T	2009	C1319C	2016	C1343D	2041
C1091A	2017	C1123GN	2009	C1170D	2055	C1211(2S)	2009	C1247	2009	C1320	2058	C1343E	2041
C1098(2S)	2017	C1123H	2009	C1170E	2055	C1213(2S)	2009	C1247A	2009	C1320A	2058	C1343F	2041
C1098(4)K	2017	C1123J	2009	C1170F	2055	C1213-OR	2009	C1247AF	2009	C1320B	2058	C1343G	2041
C1098(4)L	2017	C1123K	2009	C1170FA-2	2055	C1213A(2S)	2009	C1254	2016	C1320C	2058	C1343GN	2041
C1098-4K	2017	C1123L	2009	C1170G	2055	C1213A(JAPAN)	2009	C1266	2030	C1320D	2058	C1343G-R	2041
C1098-4L	2017	C1123M	2009	C1170GN	2055	C1213AA(2S)	2009	C1274	1617	C1320E	2058	C1343GR	2041
C1098-42M	2017	C1123OR	2009	C1170H	2055	C1213AB(2S)	2009	C1276	2016	C1320F	2058	C1343H(2S)	2041
C1098A(2S)	2017	C1123R	2009	C1170J	2055	C1213AC(2S)	2009	C1281	2009	C1320G	2058	C1343J	2041
C1098B(2S)	2017	C1123X	2009	C1170K	2055	C1213AD(2S)	2009	C1283	2009	C1320GN	2058	C1343K	2041
C1098C(2S)	2017	C1123Y	2009	C1170L	2055	C1213AK(2S)	2009	C1285	2009	C1320H	2058	C1343L	2041
C1098D(2S)	2017	C1126(2S)	2058	C1170M	2055	C1213AKB(2S)	2009	C1293	2016	C1320J	2058	C1343M	2041
C1098L(2S)	2017	C1126A	2058	C1170OR	2055	C1213AKC(2S)	2009	C1293A	2016	C1320K	2016	C1343O	2041
C1098M(2S)	2017	C1126B	2058	C1170R	2055	C1213AKD(2S)	2009	C1293B(2S)	2016	C1320L	2058	C1343OR	2041
C1099	2055	C1126E	2058	C1170X	2055	C1213B(2S)	2009	C1293C	2016	C1320M	2058	C1343R	2041
C1099K	2055	C1126F	2058	C1170Y	2055	C1213BC(2S)	2009	C1293D	2016	C1320OR	2058	C1343X	2041
C1100(TRANS)	2												

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
C1344D(2S)	2016	C1398(2S)	2020	C1423L	2016	C1684P	2009	C1815-0	2009	C1940	2009	C2150-0	2009
C1344E(2S)	2016	C1398P	2020	C1423L	2016	C1684Q	2009	C1815-BL	2009	C1954	2016	C2150-O	2009
C1344F(2S)	2016	C1398Q(2S)	2020	C1625-5	2016	C1684R	2009	C1815-GR	2009	C1959	2009	C2120-Y	2009
C1345(2S)	2016	C1402(2S)	2041	C1623L6	2016	C1684S	2009	C1815-G/F/A	2009	C1959-O	2009	C2120FA	2009
C1345C(2S)	2016	C1411	1617	C1623L7	2016	C1684T	2009	C1815-O	2009	C1959-O(KOREA)	2009	C2120Y	2009
C1345D	2016	C1413(2S)	2055	C1624	2020	C1685	2009	C1815-O(JAPAN)	2009	C1959-Y	2009	C2120Y(JAPAN)	2009
C1345E	2016	C1413A(2S)	2055	C1624-O	2020	C1685(TRANS)	2009	C1815-O(KOREA)	2009	C1959-YFA	2009	C2120Y(KOREA)	2009
C1345F(2S)	2016	C1413AH	2055	C1624-Y	2020	C1685-O	2009	C1815-OFA	2009	C1959GR	2009	C2120YFA	2009
C1345KD	2016	C1413B	2055	C1625	2020	C1685-P	2009	C1815-Y	2009	C1959Y	2009	C2123	2055
C1345KE	2016	C1413C	2055	C1625-0	2020	C1685-Q	2009	C1815-YFA	2009	C1959Y(JAPAN)	2009	C2153	2009
C1345KF	2016	C1413D	2055	C1625-O	2020	C1685-R	2009	C1815BL	2009	C1959Y(KOREA)	2009	C2180	2055
C1352	2009	C1413E	2055	C1625-Y	2020	C1685S	2009	C1815BL(KOREA)	2009	C1960	2009	C1206	2009
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C1358A	2055	C1413G	2055	C1625YLIGH	2020	C1685P(2S)	2009	C1815G	2009	C1984	2009	C2204C	2009
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C1358K2	2055	C1413L	2055	C1626-O	2020	C1685QR	2009	C1815GR(KOREA)	2009	C1986	2020	C2210	2058
C1358K3	2055	C1413R	2055	C1626-Y	2020	C1685R	2009	C1815O	2009	C1989	2016	C2212	2016
C1358L	2055	C1413X	2055	C1626Y	2020	C1685S(2S)	2009	C1815Y	2009	C1990	2016	C2212A	2016
C1358M	2055	C1413Y	2055	C1627	2009	C1685T	2009	C1815Y(JAPAN)	2009	C1990B	2016	C2213	2016
C1359(2S)	2009	C1416(2S)	1617	C1627-O	2009	C1686(2S)	2058	C1815Y(KOREA)	2009	C1991	2009	C2215	2058
C1359A(2S)	2009	C1416A	1617	C1627-O(JAPAN)	2009	C1686B	2058	C181E	2041	C1992	1617	C2216	2009
C1359B(2S)	2009	C1417(2S)	2016	C1627-Y	2009	C1686V	2058	C1826	2020	C1993	1617	C2240	2041
C1359C	2009	C1417C	2016	C1627-YFA	2009	C1687(2S)	2058	C1826(JAPAN)	2020	C1994	1617	C2241	2041
C1359C(2S)	2009	C1417D(1)	2016	C1627A	2009	C1688(2S)	2058	C1824-O	2020	C1995	1617	C2242	2041
C1359Q	2009	C1417D(U)	2016	C1627AY	2009	C1707AH	1617	C1826-O	2020	C1996	1617	C2263	2016
C1360(2S)	2016	C1417F(2S)	2016	C1627Y	2009	C1707AHB	1617	C1826-Y	2020	C1997	1617	C2274	2009
C1360A	2016	C1417V(2S)	2016	C1627Y(JAPAN)	2009	C1707H	1617	C1826G	2020	C1998	2009	C2274E(JAPAN)	2009
C1361(2S)	2009	C1417VF	2016	C1632	2009	C1707HB	1617	C1826G	2020	C1999	2016	C2274K	2009
C1362(2S)	2009	C1417VW(2S)	2016	C1633(2S)	2016	C1707HC	1617	C1826O	2020	C2000	2009	C2277	2009
C1362(47)	2009	C1417W(2S)	2016	C1634	2016	C1707HD	1617	C1826P	2020	C2006(2S)	2009	C2297	2020
C1363(2S)	2009	C1418(2S)	2020	C1635	2030	C1709	2009	C1826Q	2020	C200L	2009	C2308	2009
C1364(2S)	2009	C1419(2S)	2020	C1636	2016	C1730	2016	C1826R	2020	C2001	2009	C2308B	2009
C1364-6	2009	C1419-C	2020	C1637	2009	C1730K	2016	C1826V	2020	C2001-L	2009	C2309	2016
C1364-8	2009	C1419(2S)	2020	C1639(2S)	1617	C1730L	2016	C1827	2020	C2001A	2009	C2309D	2016
C1364-OR	2009	C1419C(2S)	2020	C1641	1617	C1734	1617	C1833	2009	C2001F	2009	C2309E	2016
C1364A(2S)	2009	C1427	2058	C1641Q	1617	C1734H	1617	C1834	2009	C2001G	2009	C2309F	2016
C1364B	2009	C1428	2016	C1641R	1617	C1735	2009	C1840	2016	C2001H	2009	C2310	2009
C1364C	2009	C1438	2009	C1641S	2016	C1739(2S)	1617	C1840E	2016	C2001K	2009	C2315	2020
C1364D	2009	C1439	2009	C1647Q	2016	C1740	2009	C1840F	2016	C2001K(JAPAN)	2009	C2320	2009
C1364E	2009	C1444	2020	C1647RY	2016	C1740C	2009	C1840P	2016	C2001L	2009	C2325(JAPAN)	2009
C1364H	2009	C1643	2020	C1648(2S)	2016	C1740D	2009	C1842	2016	C20011	2009	C2326	2009
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C1364OR	2009	C1478	2058	C1652	2009	C1740Q	2009	C1849	2009	C2002L	2009	C2330	2020
C1364R	2009	C1478A	2058	C1667(2S)	2041	C1740QH	2009	C1850	2009	C2002L(JAPAN)	2009	C2332	2058
C1364X	2009	C1537(2S)	2016	C1674(2S)	2016	C1740QJ	2009	C1851	2009	C2002M	2009	C2362	2016
C1364Y	2009	C1537-O	2016	C1674AL	2016	C1740QR	2009	C1852	2009	C2003	2009	C2362G	2016
C1367(2S)	2035	C1537-O	2016	C1674K(2S)	2016	C1740R	2009	C1853	2009	C2009	2058	C2362H	2016
C1367A(2S)	2035	C1537B(2S)	2016	C1674L(2S)	2016	C1740R(JAPAN)	2009	C1853C	2009	C2017	2016	C2362K	2016
C1372	2009	C1538(2S)	2016	C1674L(JAPAN)	2016	C1740RE	2009	C1853C	2009	C2021	2016	C2362L	2016
C1372Y(1S)	2009	C1538S(2S)	2016	C1674M(2S)	2016	C1740RH	2009	C1854	2009	C2021-Q	2016	C2365	2016
C1373	2016	C1538SA(2S)	2016	C1674R(KOREA)	2016	C1740RL	2009	C1854C	2009	C2021R	2016	C2365	2016
C1374	2016	C1539	2009	C1675(2S)	2009	C1740RM	2009	C1854E	2009	C2021Q	2016	C2366	1104
C1374H	2016	C1540	2009	C1675B	2009	C1740RN(JAPAN)	2009	C1854S	2009	C2021Q(JAPAN)	2016	C2406M	1104
C1375	2016	C1541	2009	C1675K(2S)	2009	C1740RS	2009	C1855	2058	C2021R	2016	C2458	2009
C1375H	2016	C1542(2S)	2016	C1675K(JAPAN)	2009	C1740S	2009	C1856	2058	C2021R(JAPAN)	2016	C2458-O	2009
C1376	2009	C1543	2058	C1675L(2S)	2009	C1740S(JAPAN)	2009	C1856-02	2058	C2021RJ	2016	C2458BL	2009
C1376H	2009	C1544	2009	C1675M(2S)	2009	C1740SR(JAPAN)	2009	C1856M	2058	C2021RL(JAPAN)	2016	C2458GR	2009
C1380	1617	C1547(2S)	2016	C1681(TRANS)	2016	C1741	2009	C1857	2009	C2021RM(JAPAN)	2016	C2458Y	2009
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C1380-GR	1617	C1570	2016	C1681-GR	2016	C1741B	2009	C1875K	2055	C2021ST(JAPAN)	2016	C2471	2058
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C1385	1617	C1570LH	2016	C1681B6	2016	C1771	1617	C1894	2055	C2053	2009	C2519	2016
C1385H	1617	C1571G	2016	C1681BL(2S)	2016	C1773	2041	C1894K	2055	C2055	2009	C2545D	2016
C1386	2030	C1571H	2016	C1681C	2016	C1774	2009	C1894N	2055	C2057	2058	C2545E	2016
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C1390WH(2S)	2009	C1621-O	2016	C1681K	2016	C1781H	1617	C1906(JAPAN)	2016	C2057H	2058	C2575	2009
C1390WX(2S)	2009	C1621B2	2016	C1681L	2016	C1781HA	1617	C1907	2016	C2063P	2016	C2575L	2009
C1390X(2S)	2009	C1621B3	2016	C1681M	2016	C1781HB	1617	C1908	2058	C2069	1617	C2602	2016
C1390XK(2S)	2009	C1621B4	2016	C1681O	2016	C1781HC	1617	C1908E(2S)	2058	C2070	1617	C2603	2009
C1390YM(2S)	2009	C1622	2016	C1681OR	2016	C1788	2009	C1908H	2058	C2086	2009	C2603-E	2009
C1393(2S)	2041	C1622A	2016	C1681R	2016	C1788A	2009	C1919	2041	C2087	2009	C2603-F	2009
C1393K	2058	C1622D6	2016	C1681T	2016	C1789	2016	C1919C	2041	C2107	2009	C2603G	2009
C1393L	2058	C1622D7	2016	C1681V	2016	C1801	2016	C1923	2058	C2107G3	2009	C2603H	2009
C1393M	2058	C1622D8	2016	C1682(TRANS)	2016	C1802	2016	C1923-O	2058	C2109	2009	C2604-RS	2016
C1394(2S)	2058	C1622C	2016	C1684(2S)	2009	C1802(TRANS)	2058	C1923-O	2058	C2110	2058	C2604NC	2016
C1395	2016	C1622Y	2016	C1684RL	2009	C1813	1617	C1923A	2058	C2111(2S)	1617	C1624R	2016
C1396(2S)	2016	C1623	2016	C1684K	2009	C1815	2009	C1923B	2058	C2125	2009	C2604(JAPAN)	2016

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
C2634R5	2016	C3800OR	2058	C6115	562	CA102RA	1114	CC102KA	1104	CD37A2	1104	CD4013BE	2413
C2634S	2016	C3800P	1808	C6115A	562	CA102VA	1114	CC102MA	1104	CD62	561	CD4013BF	2413
C2634S(JAPAN)	2016	C3800R	2058	C6118	563	CA124E	1711	CC102PA	1114	CD91	562	CD4013BMJ	2413
C2636	2016	C3800X	2058	C6118A	563	CA139AE	1712	CC102RA	1114	CD101	1123	CD4013BMW	2413
C2646	2016	C3800Y	2058	C6120	564	CA139F	1712	CC102VA	1114	CD753A	561	CD4017	2417
C2647	2058	C3854	2016	C6130P	1723	CA139G	1712	CC152AA	1114	CD759A	563	CD4017AD	2417
C2647C	2058	C3940	2058	C6131P	1723	CA150	1104	CC152BA	1114	CD821	561	CD4017AE	2417
C2669	2009	C3940A	2058	C6391	1101	CA152AA	1114	CC152CA	1114	CD821A	561	CD4017AF	2417
C2669-O(JAPAN)	2009	C3940B	2058	C6391A	1101	CA152BA	1114	CC152DA	1114	CD823	561	CD4017BCJ	2417
C2670	2009	C3940C	2058	C6644H(HEP)	2016	CA152CA	1114	CC152EA	1114	CD823A	561	CD4017BD	2417
C2710	2009	C3940D	2058	C6690	2035	CA152DA	1114	CC152FA	1114	CD825	561	CD4017CN	2417
C2710-O	2009	C3940E	2058	C6691	2035	CA152EA	1114	CC152GA	1114	CD825A	561	CD4017DB	2417
C2710-Y	2009	C3940F	2058	C6692	2035	CA152FA	1114	CC152HA	1114	CD827	561	CD4017DE	2417
C2717	2058	C3940G	2058	C7076	2016	CA152GA	1114	CC152IA	1114	CD827A	561	CD4017DF	2417
C2717FA	2058	C3940GN	2058	C7400P	1801	CA152IA	1114	CC152KA	1114	CD829	561	CD4017DMJ	2417
C2719	2009	C3940H	2058	C7400P(HEP)	1801	CA152KA	1114	CC152LA	1114	CD829A	561	CD4017BMW	2417
C2719(JAPAN)	2009	C3940J	2058	C7401P	1801	CA152MA	1114	CC152PA	1114	CD829A	561	CD4049AD	2449
C2719L(JAPAN)	2009	C3940K	2058	C7401P(HEP)	1801	CA152MA	1114	CC152RA	1114	CD963B	563	CD4049AE	2449
C2720	2009	C3940L	2058	C7404P	1802	CA152PA	1114	CC152TA	1114	CD965B	564	CD4049AF	2449
C2724	2009	C3940M	2058	C7408P	1822	CA152RA	1114	CC152VA	1114	CD1111	1104	CD4049CJ	2449
C2724-D	2009	C3940OR	2058	C7408P(HEP)	1822	CA152TA	1114	CC1168F	1617	CD1112	1104	CD4049CN	2449
C2724-E	2009	C3940R	2058	C7447AP	1805	CA152VA	1114	CC59018F	2009	CD1113	1104	CD4049M	2449
C2785	2009	C3940X	2058	C7490AP	1808	CA200	1104	CCJ5212	2009	CD1114	1104	CD4049UBD	2449
C2785(JAPAN)	2009	C3940Y	2058	C7490P(HEP)	1808	CA224E	1711	CC51235G	1617	CD1115	1104	CD4049UBE	2449
C2785E	2009	C4011	561	C8290	2009	CA224G	1711	CC52001H	2009	CD1116	1104	CD4049UBF	2449
C2785F	2009	C4015	562	C9011E	2009	CA239	1712	CC52004B	2016	CD1117	1104	CD4103	562
C2785F(JAPAN)	2009	C4018	563	C9011F	2009	CA239A	1712	CC52005B	2023	CD1121	1104	CD4106	563
C2785H	2009	C4020	564	C9011H	2009	CA239AE	1712	CC5-2006D	2009	CD1122	1104	CD4109	564
C2785J	2009	C4033A	2058	C9014A	2009	CA239AG	1712	CC52006D	2016	CD1123	1104	CD4116	563
C2785K	2009	C4033B	2058	C9014A(KOREA)	2009	CA239E	1712	CC52008F015	2016	CD1124	1104	CD4117	563
C2786	2009	C4033C	2058	C9082	2023	CA239G	1712	CC54004	1617	CD1125	1104	CD4118	563
C2786L	2009	C4033D	2058	C9083	2023	CA250	1104	CC56168	1617	CD1126	1104	CD4121	563
C2787	2016	C4033E	2058	C9084	2023	CA324E	1711	CC56168F	1617	CD1127	1104	CD4122	563
C2818	2009	C4033F	2058	C9085	2023	CA324G	1711	CC56168G	2030	CD1141	1104	CD4627	561
C2818H	2009	C4033G	2058	C9085	2023	CA339	1712	CC56225F	2016	CD1142	1104	CD4735	561
C2839	2009	C4033GN	2058	C9426	2058	CA339A	1712	CC56226G	2016	CD1143	1104	CD4739	562
C2839-D	2009	C4033H	2058	C9634	2016	CA339AE	1712	CC56227F	2016	CD1147	1104	CD4742	563
C2839D	2009	C4033J	2058	C10110	1104	CA339AG	1712	CC56228F	2023	CD1148	1104	CD4744	564
C2839E	2009	C4033K	2058	C10159	1104	CA339E	1712	CC56229H	2030	CD1149	1104	CD4765	562
C2840	2016	C4033L	2058	C10176	1104	CA339G	1712	CC59016D	2016	CD1151	1104	CD4765A	562
C2840D	2016	C4033M	2058	C10279-1	2016	CA339H	1712	CC59016E	2016	CD1224	1122	CD4766	562
C2884	2016	C4033OR	2058	C10279-3	1617	CA339I	1712	CC59017G925	2016	CD4001	2401	CD4767	562
C2901	2009	C4033R	2058	C12712	2030	CA339J	1712	CC59018E	1617	CD4001AD	2401	CD4767A	562
C2928	2055	C4033X	2058	C12923	2030	CA339K	1712	CC59018F	2016	CD4001AE	2401	CD4768	562
C2960	2009	C4033Y	2058	C12924	2030	CA339L	1712	CC59018G924	2016	CD4001AF	2401	CD4770	562
C2960E	2009	C4116	2020	C12925	2009	CA741C	007	CD-0000	1123	CD4001BCJ	2401	CD4770A	562
C2960F	2009	C4116A	2020	C12926	2030	CA741CE	007	CD0000N	1123	CD4001BCN	2401	CD4771	562
C2960G	2009	C4116B	2020	C13390	2009	CA741CG	007	CD0001	1123	CD4001BD	2401	CD4771A	562
C3000P	1801	C4116C	2020	C13391	2009	CA741CE	007	CD0000N	1123	CD4001BE	2401	CD4772	562
C3001P	1801	C4116D	2020	C13391A	2009	CA741CG	007	CD0001	1123	CD4001BF	2401	CD4772A	562
C3004P	1802	C4116E	2020	C13392	2030	CA741CS	007	CD0014	1122	CD4001BF	2401	CD4772A	562
C3114T(JAPAN)	2009	C4116F	2020	C13393	2030	CA741E	007	CD0014(MORSE)	1122	CD4001BMJ	2401	CD4773	562
C3141	1122	C4116G	2020	C13394	2030	CA741G	007	CD-0014N	1123	CD4001BMW	2401	CD4773A	562
C3142	1104	C4116GN	2020	C13398	2030	CA1020A	1104	CD0014NA	1617	CD4001CJ	2401	CD5234B	561
C3143	1104	C4116H	2020	C13901	1617	CA1458	038	CD0014NG	1617	CD4001CN	2401	CD5235B	561
C3144	1102	C4116I	2020	C14256	2009	CA1458E	038	CD0015N	1617	CD4001MJ	2401	CD5239B	562
C3214	2055	C4116K	2020	C21382	1104	CA1458F	038	CD-0021	1122	CD4001MW	2401	CD5242B	563
C3720	2058	C4116L	2020	C21383	562	CA1458G	038	CD0021	1617	CD4001UBD	2401	CD5245B	564
C3720A	2058	C4116M	2020	C21480	1123	CA1458S	038	CD-0033	561	CD4001UBF	2401	CD5341B	561
C3720B	2058	C4116OR	2020	C36578	2016	CA1558E	038	CD0033	561	CD4001UBF	2401	CD5346B	562
C3720C	2058	C4116R	2020	C36579	2030	CA2002	703	CD0057	1122	CD4009AE	2449	CD5349B	563
C3720D	2058	C4116S	2020	C36580	1617	CA2002M	703	CD-05	1104	CD4009CJ	2449	CD5645	1122
C3720E	2058	C4116T	2020	C-36582	2035	CA2002V	703	CD05	1104	CD4009CN	2449	CD8000	1617
C3720F	2058	C4116Y	2020	C51909B	2023	CA2004	703	CD-07	1101	CD4011	2411	CD-8457	1104
C3720G	2058	C-4401	1122	C139000	2030	CA3741CE	007	CD07	1101	CD4011AD	2411	CD8457	1122
C3720GN	2058	C4558C	038	C139000A	2030	CA3741E	007	CD09	1104 N7	CD4011AE	2411	CD8547	1122
C3720H	2058	C5005	1123	C248507	1104	A6664	1104	CD-2	1104	CD4011AF	2411	CD12000	1617
C3720J	2058	C5120	2017	C523383	2009	CA6665	1104	CD-2N	1104	CD4011BCJ	2411	CD13332	1104
C3720K	2058	C5130	2017	C530041-1	1104	CA7248	1104	CD-4	1104	CD4011BCN	2411	CD13333	1102
C3720L	2058	C5430OR	2058	C1107832P6	1101	CA8314	1104	CD-20	1122	CD4011BD	2411	CD13334	1102
C3720OR	2058	C6015	562	C2475078-3	2016	CACS028A	2016	CD31-00006	565	CD4011BE	2411	CD13335	1104
C3720R	2058	C6015A	562	C2485076-3	2030	CB5	1104	CD31-00008	561	CD4011BF	2411	CD13336	1102
C3720X	2058	C6018	563	C2485077-2	2030	CB10	1104	CD31-00012	562	CD4011BMJ	2411	CD13337	1104
C3720Y	2058	C6018A	563	C2485078-1	2016	CB20	1104	CD31-00015	563	CD4011BMW	2411	CD13338	1102
C3800(TRANS)	2058	C6020	564	C2485079-1	2016	CB50	1104	CD31-00017	564	CD4011CJ	2411	CD13339	1102
C3800A(TRANS)	2058	C6020A	564	CA-092	562	CB100	1114	CD31-10365	564	CD4011CN	2411	CD-84857	1122
C3800B(TRANS)	2058	C6052P	007	CA10	1104	CB106	1123	CD31-12015	561	CD4011MJ	2411	CD86003	1122
C3800C	2058	C6052P(HEP)	007	CA20	1104	CB150	1104	CD31-12019	562	CD4011MW	2411	CD860011	1122
C3800D	2058	C6102P	038	CA50	1104	CB163	1123	CD31-12022	563	CD4011UBD	2411	CD860037	1122
C3800E	2058	C6102P(HEP)	038	CA-90	1123	CB200	1104	CD31-12024	564	CD4011UBE	2411	CD3122055	562
C3800F	2058	C6106	565	CA90	1122	CB246	1617	CD31-12039	562	CD4011UBF	2411	CDC86X7-5	1617
C3800G	2058	C6106A	565	CA100	1104	CB250	1104	CD32-12049	562	CD4013	2413	CDC430	1617
C3800GN	2058	C6107	565	CA102BA	1104	CB-393	1123	CD32-12052	563	CD4013AD	2413	CDC496	2023
C3800H	2058	C6107A	565	CA102DA	1104	CB393	1123	CD32-12054	564	CD4013AE	2413	CDC587	2030
C3800J	2058	C6109	561	CA102FA	1104	CC102BA	1104	CD-37	1122	CD4013AF	2413	CDC731	2035
C3800K	2058	C6109A	561	CA102HA	1104	CC102DA	1104	CD37	1122	CD4013BCJ	2413	CDC745	2030
C3800L	2058	C6113P	1771	CA102MA	1104	CC102FA	1104	CD37A	1122	CD4013BCN	2413	CDC746	1617
C3800M	2058	C6114P	1772	CA102PA	1114								

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
CDC2010	1617	CDQ10016	1617	CER71	1104	CFC12D5	563	CJ3900A	1617	CM4013AE	2413	CP404	2041
CDC2010D	1617	CDQ10017	1617	CER71A	1104	CFC12D10	563	CJ3901	1617	CM4017	2417	CP405	2041
CDC2510C-G	1617	CDQ10018	1617	CER71B	1104	CFC15D	564	CM256	1617	CM4017AD	2417	CP406	2041
CDC4023A130	1617	CDQ10019	1617	CER71C	1104	CFC15D5	564	CM424	1617	CM4017AE	2417	CP407	2041
CDC5000	2016	CDQ10020	1617	CER-71CA	1104	CFC15D10	564	CM4425	1617	CM4049	2449	CP408	2041
CDC5000-1B	2016	CDQ10021	1617	CER72	1114	CG1	1617	CJ70645	1123	CM4049AD	2449	CP409	2030
CDC5008	2030	CDQ10022	1617	CER72A	1114	CG12-E	1123	CIL194	2058	CM4049AE	2449	CP701	2020
CDC5028A	2030	CDQ10023	1617	CER72B	1114	CG12E	1123	CIL194A	2058	CM7163	2009	CP702	2020
CDC5038A	2016	CDQ10024	1617	CER72C	1114	CG61H	1123	CIL194B	2058	CM8470	1104	CP704	2020
CDC5071A	2016	CDQ10025	1617	CER72D	1114	CG62H	1123	CIL195	2058	CMO770	2009	CP3212055	562
CDC5075B	2016	CDQ10026	1617	CER72F	1114	CG63H	1123	CIL511	2016	CN2484	2030	COX21	086
CDC8009	1617	CDQ10027	1617	CER73	1114	CG64H	1123	CIL512	2016	CO6C	1104	CQY65	026
CDC-8000-1	2009	CDQ10028	1617	CER73A	1114	CG65H	1123	CIL513	2016	CO49	1104	CR/E	1104
CDC8000-1	2030	CDQ10032	1617	CER73B	1114	CG66H	1123	CIL521	2016	CO410V	1114	CRO000	1123
CDC8000-1C	1617	CDQ10033	2030	CER73C	1114	CG74H	1123	CIL522	2016	CO510	1114	CR02AM	1067
CDC8000-1C	2030	CDQ10035	1617	CER73D	1114	CG86H	1123	CIL523	2016	CO-14348	1770	CR02AM-1	1067
CDC8000-CM	2030	CDQ10036	1617	CER73F	1114	CGD462	1123	CIL-531	2009	COD1-6045	1104	CR02AM1	1067
CDC-8001	1617	CDQ10048	2030	CER500	1104	CGD591	1123	CIL531	2016	COD1-6046	1104	CR02AM-4	1067
CDC8002	2030	CDQ10051	2030	CER500A	1104	CGD685	1123	CIL-532	2009	COD1-6047	1104	CR02AM4	1067
CDC8002-1	2030	CDQ10052	2030	CER500B	1104	CGD1029	1123	CIL532	2016	COD1-6048	1104	CR02AN4	1067
CDC8011B	1617	CDQ10053	2030	CER500C	1104	CGE-60	2009	CIL533	2016	COD1531	1104	CR1-051C	1067
CDC8021	1617	CDQ10057	2030	CER670	1104	CGE-61	2009	CJ5201	1617	COD1532	1104	CR1-051CA	1067
CDC805	1617	CDQ10058	2030	CER670A	1104	CGE-62	2016	CJ5202	1617	COD1533	1104	CR1-051CB	1067
CDC8201	2009	CDR-2	1104	CER670B	1104	CGE-66	2020	CJ5203	1617	COD1534	1104	CR1-101C	1067
CDC8457	1122	CDR-4	1104	CER670C	1104	CGE-69	2027	CJ-5206	1617	COD1535	1104	CR1-101CA	1067
CDC9000-1	2023	CDS-16B	1104	CER680	1104	CGE-500	1122	CJ5206	2009	COD1536	1104	CR1-201C	1067
CDC9000-1D	2023	CDZ-9V	562	CER680A	1104	CH119D	1104	CJ-5207	1617	COD1537	1114	CR1-201CA	1067
CDC9002-1C	2030	CDZ-C9V	562	CER680B	1104	CH302MA	1114	CJ5207	2009	COD1538	1114	CR3AMZ	1020
CDC9002-1B	2030	CE0398/7839	1104	CER680C	1104	CH302PA	1114	CJ-5208	1617	COD1551	1104	CR3AMZ-8	1020
CDC10000-1E	2023	CE0398-7839	1144	CER690	1104	CH302RA	1114	CJ-5210	2030	COD1552	1104	CR3AMZ8	1020
CDC1209C	2009	CE0495/7839	1123	CER690A	1104	CH753	561	CJ5210	2030	COD1553	1104	CR103A	1067
CDC1209C-1C	1617	CE37	1122	CER690B	1104	CH757	562	CJ-5211	2009	COD1554	1104	CR103B	1067
CDC12018C	1617	CE401	1104	CER690C	1104	CH759	563	CJ5211	1617	COD1555	1104	CR103C	1020
CDC12030B	2016	CE402	1104	CER700	1104	CH821	561	CJ-5212	2009	COD1556	1104	CR103D	1020
CDC12077F	1617	CE#03	1104	CER700A	1104	CH823	561	CJ5212	1617	COD1557	1104	CR103Y	1067
CDC12108	2009	CE404	1104	CER700B	1104	CH825	561	CJ5213	2030	COD1611	1104	CR203A	1067
CDC12112C	2016	CE405	1104	CER700C	1104	CH827	561	CJ5214	2030	COD1612	1104	CR203B	1067
CDC12112D	2016	CE406	1104	CER710	1104	CH829	561	CJ5215	2030	COD1613	1104	CR203C	1020
CDC12112E	2016	CE407	1114	CER710A	1104	CH963	563	CK419	1617	COD1614	1104	CR203D	1020
CDC12112F	2016	CE408	1114	CER710B	1104	CH965	564	CK420	1617	COD1615	1104	CR203Y	1067
CDC13000	2009	CE409	1114	CER710C	1104	CH4103	562	CK421	1617	COD1616	1114	CR203YY	1067
CDC-13000-1	1617	CE410	1114	CER720	1114	CH4106	563	CK422	1617	COD1617	1114	CR353	1122
CDC13000-1	2009	CE501	1104	CER720A	1114	CH4109	564	CK474	1617	COD1618	1114	CR801	1104
CDC13000-1B	1617	CE502	1104	CER720B	1114	CH4627	561	CK475	1617	COD1556	1104	CR951	1114
CDC13000-1C	1617	CE503	1104	CER720C	1114	CH4735	561	CK476	1617	COD15524	1104	CR952	1114
CDC13000-1D	2009	CE504	1104	CER730	1114	CH4739	562	CK477	1617	COD15534	1104	CR953	1114
CDC13000-1B	1617	CE505	1104	CER730A	1114	CH4742	563	CK705	1123	COD15564	1104	CR954	1114
CDC13000C	2009	CE506	1104	CER730B	1114	CH4744	564	CK-706	1123	COD16047	1104	CR955	1114
CDC13016A	1617	CE507	1114	CER730C	1114	CH5234	561	CK706	1123	COD16047	1104	CR956	563
CDC13019B	2009	CE508	1114	CF-092	562	CH5239	562	CK706-P	1123	COD1537	1114	CR956	563
CDC13500-1	1617	CE509	1114	CF102DA	1104	CH5242	563	CK706A	1123	COD1538	1114	CR1034	1104
CDC15018	2009	CE510	1114	CF102PA	1114	CH5245	564	CK706P	1123	COD1617	1114	CR1035	1104
CDC25100-6	1617	CE4007B	2009	CF102RA	1114	CH5245.1	565	CK715	1123	COD1531	1104	CRD821	561
CDC25100-G	2016	CE4007C	2009	CF102VA	1114	CHAZ6.2	561	CK942	2023	COD16045	1104	CRD823	561
CDC60132	2009	CE4003D	2030	CF152AA	1114	CHAZ6.2A	561	CL05	1104	COD16047	1104	CRD825	561
CDC120700	2030	CE4003E	2009	CF152BA	1114	CHAZ6.2A	561	CL010	1104	COD11556	1104	CRD827	561
CDC4306813	1617	CE4004C	2009	CF152DA	1114	CHMZ5.1	565	CL025	1104	COD115524	1104	CRD829	561
CDG-00	1122	CE4005C	2023	CF152FA	1114	CI2711	1617	CL1	1104	COD115534	1104	CRD921	561
CDG00	1122	CE4008B	2058	CF152HA	1114	CI2712	1617	CL1.5	1104	COD115544	1104	CRD923	561
CDG005	1104	CE4008C	2058	CF152KA	1114	CI2713	1617	CL2	1104	COD115564	1104	CRD925	561
CDG025	1122	CE4008D	2058	CF152MA	1114	CI2714	1617	CL3	1104	CP102	1114	CRD927	561
CDG-21	1122	CE4008E	2058	CF152PA	1114	CI2923	1617	CL4	1104	CP102BA	1104	CS11C	1067
CDG21	1122	CE4010D	2016	CF152RA	1114	CI2924	1617	CL5	1104	CP102DA	1104	CS-16E	1104
CDG-22	1122	CE4010E	2016	CF152VA	1114	CI2925	1617	CL6	1104	CP102FA	1104	CS16E	1104
CDG22	1122	CE4012D	2023	CF-1295H	2030	CI2926	1617	CL7	1104	CP102HA	1104	CS360	1617
CDG-24	1122	CE4013E	2009	CFA9.1D	562	CI3390	1617	CL8	1104	CP102KA	1104	CS-460B	1617
CDG24	1122	CEC6050	1104	CFA9.1D5	562	CI3391	1617	CL166C	1617	CP102MA	1104	CS-461B	2016
CDG24/3490	1122	CER6B	1104	CFA9.1D10	562	CI3391A	1617	CL166C,D	2009	CP102PA	1114	CS696	1617
CDG27	1122	CER67	1104	CFA12D	563	CI3392	1617	CL166D	1617	CP102RA	1114	CS697	1617
CDJ-00	1122	CER67A	1104	CFA12D5	563	CI3393	1617	CLEAK-05401	2068	CP102VA	1114	CS706	1617
CDK-4	1104	CER67B	1104	CFA12D10	563	CI3394	1617	CLM05	1104	CP103	1114	CS718	1617
CDQ1018	2009	CER67C	1104	CFA15D	564	CI3395	1617	CLM1	1104	CP152AA	1114	CS718A	1617
CDQ1021	2009	CER67F	1101	CFA15D5	564	CI3396	1617	CLVA62A	561	CP152BA	1114	CS720A	1617
CDQ1024	2009	CER68	1104	CFA15D10	564	CI3397	1617	CLVA91A	562	CP152CA	1114	CS-901ZHF	2023
CDQ10001	1617	CER68A	1104	CFB9.1D	562	CI3398	1617	CM0770	2030	CP152DA	1114	CS901ZHF	2023
CDQ10002	1617	CER68B	1104	CFB9.1D5	562	CI3402	1617	CM4-284B	041	CP152EA	1114	CS918	2016
CDQ10003	1617	CER68C	1104	CFB9.1D10	562	CI3403	1617	CM4-284B-2	041	CP152FA	1114	CS925M	1617
CDQ10004	1617	CER-69	1104	CFB12D	563	CI3404	1617	CM-12	1122	CP152GA	1114	CS929	2016
CDQ10005	1617	CER69	1104	CFB12D5	563	CI3405	1617	CM4001	2401	CP152HA	1114	CS930	2016
CDQ10006	1617	CER69A	1104	CFB12D10	563	CI3414	2009	CM4001AD	2401	CP152KA	1114	CS956	2030
CDQ10007	1617	CER69B	1104	CFB15D	564	CI3415	1617	CM4001AE	2401	CP152MA	1114	CS1014	2016
CDQ10008	1617	CER69C	1104	CFB15D5	564	CI3416	1617	CM4009AE	2449	CP152PA	1114	CS1014D	2016
CDQ10009	1617	CER70	1104	CFB15D10	564	CI3417	1617	CM4011	2411	CP152RA	1114	CS1014E	2016
CDQ10010	1617	CER70A	1104	CF9.1D	562	CI3704	2030	CM4011AD	2411	CP152TA	1114	CS1014F	2016
CDQ10011	2030	CER70B	1104	CF9.1D5	562	CI3705	2030	CM4011AE	2411	CP152VA	1114	CS1014G	2016
CDQ10012	2030	CER70C	1104	CF9.1D10	562	CI3706	2030	CM4013	2413	CP400	2041	CS1014H	2016
CDQ10014	2030	CER-71	1104	CFC12D	563	CI3900	1617	CM4013AD	2413	CP401	2041	CS1018	2016

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CS1068	2009	CS1251F	2023	CS1518E	2016	CS3702	2023	CS9013B	1617	CT12-2A	1000	CTP200	1114
CS1120C	2016	CS1252B	2016	CS1555	2016	CS3703	2023	CS9013E	1617	CT12-4A	1000	CTP300	1114
CS-1120C1	2009	CS1252C	2016	CS1585	1617	CS3704	2030	CS9013E-F	2030	CT16X7	1122	CTP400	1114
CS-1120C2	2009	CS1255H	2030	CS1585E/F	1617	CS3705	2030	CS9013F	1617	CT21	1122	CTP-461	1123
CS1120D	2016	CS1257	1617	CS1585G	1617	CS3706	2030	CS9013G	1617	CT22	1101	CTP461	1123
CS-1120D1	2009	CS-1258	2009	CS1585H	2016	CS3707	2016	CS9013H	1617	CT23	1104	CTP500	1114
CS1120E	2016	CS1258	1617	CS1589E	2016	CS3708	2016	CS-9013HE	2009	CT24	1102	CTP573	1123
CS1120F	2016	CS-1259	2009	CS1589F	2016	CS3709	2016	CS9013HE	1617	CT26	1122	CTP600	1114
CS-1120H	2009	CS1259	1617	CS1589S	2016	CS3710	2016	CS9013HF	1617	CT27	1101	CTP800	1114
CS1120H	2016	CS1283A	1617	CS1591LE	2030	CS3711	2016	CS-9013HG	2030	CT28	1104	CTP1000	1114
CS-1120I	2009	CS1284B	2016	CS1594E	2016	CS3843	1617	CS9013HG	1617	CT29	1102	CTP-2001-1007	1617
CS1120I	2009	CS1284F	2016	CS1596E	2016	CS3844	1617	CS9013HH	1617	CT30-1A	1000	CTP-2001-1008	1617
CS1121G	2023	CS1284G	2016	CS1609F	2030	CS3845	1617	CS-9014	2016	CT30-2A	1000	CTP-2001-1010	1123
CS1129E	2030	CS1284H	2016	CS1613	2030	CS3854	1617	CS9014	1617	CT30-4A	1000	CTP-2001-1011	1104
CS1166	1617	CS1286	2009	CS1661	2016	CS3854A	1617	CS9014(C)	2009	CT31	1122	CTP-2001-1012	1104
CS1166D	2009	CS1288	1617	CS1664	2030	CS3859	1617	CS9014A	1617	CT31-1A	1000	CTP-2006-1004	1123
CS1166D-G	2009	CS1289	1617	CS1665	1617	CS3860	1617	CS9014B	1617	CT31-2A	1000	CTU20R	1104 N1
CS1166E	1617	CS1293	2016	CS1702C	2009	CS3906	2023	CS9014B-C	2009	CT31-4A	1000	CTZ6.2	561
CS1166F	2009	CS1294E	2023	CS1711	2030	CS4003	1617	CS9014C	1617	CT32	1101	CTZ6.2A	561
CS1166G	1617	CS1294H	2023	CS1834	2016	CS4005	2030	CS9014C/3490	1617	CT32-1A	1000	CTZ9.1A	562
CS1166H	1617	CS1295E	1617	CS1893	2030	CS4006	2030	CS9014D	2023	CT32-2A	1000	CTZ12	563
CS1166H/F	1617	CS1295G	1617	CS1990	2030	CS4007	2030	CS9014G	2009	CT32-4A	1000	CTZ12A	563
CS1168E	2016	CS1295H	2030	CS2001	1617	CS4012	1617	CS9015	2023	CT33	1102	CTZ15	564
CS1168F	1617	CS1303	2023	CS2001H	2009	CS4013	2023	CS9015B	2023	CT33-1A	1000	CTZ15A	564
CS1168G	2009	CS-1305	2009	CS2004	1617	CS4021	1617	CS9015C	2023	CT33-2A	1000	CU-12E	1067
CS1168H	1617	CS1305	2030	CS-2004C	2016	CS4060	1617	CS9015C2	2023	CT33-4A	1000	CV12E	1020
CS1170F	2023	CS1308	2023	CS2004C	2009	CS4061	1617	CS9015D	2023	CT34	1102	CV425	1123
CS1221F	2023	CS-1330	2009	CS2004D	1617	CS4062	1617	CS-9016	2058	CT36	1122	CV442	1123
CS1225D	2016	CS1330	2016	CS-2005B	2023	CS4193	1617	CS9016	2058	CT38	1104	CV448	1123
CS1225E	2016	CS1330A	2016	CS-2005C	2023	CS4194	1617	CS9016(G)	2009	CT39	1102	CX-0031	1123
CS1225F	2016	CS1330B	2016	CS2006	1617	CS-6168F	2009	CS-9016D	2058	CT100	1104	CX-0033	1123
CS1225H	2030	CS1330C	2016	CS2006G	2016	CS6168F	1617	CS9016D	2058	CT156	1122	CX-0035	1104
CS1226	2016	CS1330D	2009	CS-2007G	2016	CS-6168G	1617	CS9016E	2058	CT157	1104	CX-0036	1123
CS1226E	2016	CS1340D	2016	CS2007G	2009	CS6168G	2030	CS9016EF	2058	CT158	1102	CX0036	1123
CS1226F	2016	CS1340E	2016	CS-2007H	2016	CS-6168H	1617	CS9016F	2058	CT159	1102	CX-0037	1104
CS1226G	2016	CS1340F	2016	CS2007H	2009	CS6168H	2009	CS9016F(TRUETONE)	2009	CT161	1122	CX0037	1104
CS1226H	2016	CS1340G	2016	CS2008	2016	CS-6225E	2016	CS9016F(WESTGHSE)	2009	CT162	1122	CX-0039	1104
CS1226N	2009	CS1340H	2016	CS-2008F	2016	CS6225E	2016	CS9016FG	2058	CT163	1102	CX0039	1104
CS1227	2016	CS1340I	1617	CS-2008G	2016	CS-6225F	2009	CS9016FG	2058	CT164	1102	CX-0040	1104
CS1227D	2016	CS1344	1617	CS2008G	2016	CS6225F	2009	CS9016G	2058	CT182	1101	CX0040	1104
CS1227E	2016	CS1345	1617	CS-2008H	2016	CS-6225G	1617	CS9016G	2058	CT183	1104	CX0041	1123
CS1227F	2016	CS1348	1617	CS2008H	2016	CS6225G	2009	CS9016H	2058	CT184	1102	CX-0042	1123
CS1227G	2016	CS1349	1617	CS2008H	2016	CS6225G	2009	CS9017	2016	CT185	1102	CX0042	1123
CS1228	2023	CS1350	2016	CS2008H552	2016	CS6226F	2016	CS9017	2016	CT186	1103	CX-0045	1123
CS1228E	2023	CS1351	2016	CS-2083	2009	CS-6227E	2009	CS9017F	2016	CT186	1103	CX-0045	1123
CS1229	1617	CS1352	2030	CS2218	1617	CS6227E	2016	CS9017G	2016	CT200	1104	CX0045	1123
CS1229A	1617	CS1353	2016	CS2219	1617	CS-6227F	2009	CS9017H	2016	CT256	1122	CX-0047	1123
CS1229B	1617	CS1354	2023	CS2221	1617	CS6227F	2016	CS9018	2016	CT257	1104	CX0047	1104
CS1229C	1617	CS-1359	2009	CS-6227G	2016	CS-6227G	2016	CS-9018D	2009	CT258	1102	CX-0048	1104
CS1229D	1617	CS1359	2016	CS2369	1617	CS6227G	2009	CS9018D	2016	CT259	1102	CX0048	1104
CS1229E	1617	CS1360	2016	CS2481	1617	CS6228F	2023	CS9018E	2016	CT282	1122	CX0048	1104
CS1229F	1617	CS1361E	2009	CS2484	2030	CS6229F	1617	CS9018EF	2016	CT283	1104	CX-0052	563
CS1229G	1617	CS-1361F	2009	CS2711	1617	CS7229F	2030	CS9018F	2016	CT284	1102	CX0052	563
CS1229H	1617	CS1361F	2009	CS2712	1617	CS7229G	1617	CS9018FG	2016	CT285	1102	CX-0054	1104
CS1229K	2030	CS1361F	2016	CS2713	1617	CS9001	2016	CS9018G	2016	CT286	1103	CX0054	1144
CS1229N	2030	CS-1361G	2009	CS2714	1617	CS9010	2009	CS9018G	2016	CT300	1104	CX-0055	1122
CS1235C	1617	CS1361G	2009	CS2715	2016	CS-9011	1617	CS9019	2009	CT461	1123	CX-9001	1104
CS1235E	1617	CS1362	1617	CS2716	2016	CS9011	1617	CS9021G-I	2016	CT600	1104	CX9001	1104
CS-1235F	1617	CS1363	1617	CS2922	1617	CS9011(C)	1617	CS9022E	2030	CT1012	2016	CX107	2016
CS1235G	1617	CS1368	1617	CS2923	1617	CS9011(E)(F)	2009	CS9101B	1617	CT1013	2016	CX108	2016
CS1236D	1617	CS1368A	1617	CS2924	1617	CS9011(EF)	2009	CS9102	2023	CT1018	2016	CX109	1123
CS1236H	1617	CS1368B	1617	CS2925	1617	CS9011(EF)	2009	CS9103B	2030	CT1018	2016	CX110	1123
CS1238	2016	CS1368C	1617	CS2925	1617	CS9011(F)	1617	CS9103C	2030	CT1019	2016	CX111	1101
CS-1238F	2009	CS1368D	1617	CS2941	2023	CS9011(GH)	2009	CS9104	2016	CT1020	2016	CX114	1101
CS1238G	1617	CS1370	1617	CS-3001B	2016	CS9011(I)	1617	CS9104	2016	CT1020	2016	CX114	1101
CS1238H	2016	CS1371	1617	CS3001B	2009	CS9011(J)	1617	CS9124-C2	2016	CT1021	2016	CX115	1101
CS1238I	2016	CS-1372	2030	CS3390	1617	CS9011D	1617	CS9124B1	2016	CT1300	2016	CX116	1104
CS-1238P	2009	CS1372	2030	CS3391	1617	CS9011E	1617	CS9125-B1	2016	CT1500	2016	CX117	1104
CS1238P	2009	CS1383	1617	CS3391A	1617	CS-9011F	2009	CS-9125B	1617	CT-2002	1123	CX120	1101
CS1238P	2009	CS1383	1617	CS3392	1617	CS9011F	1617	CS9125B	1617	CT2002	1123	CX123A	2009
CS1238P	2009	CS1386E	1617	CS3399	1617	CS-9011G	1617	CS9126	1617	CT-2005	1123	CX125	1114
CS1243E	2016	CS-1386H	2009	CS3399	1617	CS9011G	1617	CS9128-B2	2023	CT2005	1123	CX128	2030
CS1243H	2016	CS1386H	2009	CS3399	1617	CS9011H	1617	CS9128C1	2023	CT2007	1123	CX130	2041
CS1244H	2016	CS1386H	2009	CS3399	1617	CS9011I	1617	CS9129	2023	CT2008	1123	CX132	2035
CS1244J	2016	CS1420	1617	CS3399	1617	CS9011N	1617	CS9129B1	2023	CT2008	1123	CX132	2035
CS-1244X	2009	CS1453E	1617	CS3399	1617	CS9012	2023	CS9129B2	2023	CT-3003	1104	CX133	2035
CS1244X	2016	CS1453F	2030	CS3399	1617	CS9012E	2023	CS9129B2	2023	CT3003	1104	CX135	565
CS1245F	1617	CS1453G	2030	CS3403	1617	CS9012E-F	2023	CS9600-4	1617	CT-3005	1104	CX137	561
CS1245G	1617	CS1460E	2016	CS3403	1617	CS9012F	2023	CS9600-5	1617	CT3005(RATIO-DET.)	1104	CX139	562
CS1245H	1617	CS1460H	2016	CS3404	1617	CS9012FG	2023	CS-12941	2009	CTN50	1123	CX142	563
CS1245I	2009	CS1461J	2016	CS3405	1617	CS9012H	2023	CS13401	1617	CTN100	1114	CX145	564
CS1245T	1617	CS1462F	2016	CS3414	1617	CS9012H	2023	CS-90111	2009	CTN200	1104	CX152	2020
CS1248	2030	CS1462I	2016	CS3416	1617	CS9012HE	2023	CS90111	1617	CTN300	1104	CX153	2027
CS1248T	2030	CS1463A	1617	CS3417	1617	CS-9012HF	2023	CSD2315	1122	CTN300	1104	CX156	1114
CS1250E	1617	CS1464H	2030	CS3605	1617	CS9012HF	2023	CSD2359	1122	CTN400	1114	CX159	2009
CS1250F	2030	CS1508G	2016	CS3606	1617	CS9012HH	2023						

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CXL178MP	1122	CZ936	562	CZF5.1D10	565	D-1S2473	1122	D10B1051	2016	D28D5	2020	D34J1	2023
CXL186	2017	CZ936A	562	CZF6.2D	561	D-1S5133	1122	D10B1055	2016	D28D7	2020	D34J2	2023
CXL196	2020	CZ936B	562	CZF6.2D5	561	D1Y	2016	D10G1051	2016	D28D8	2017	D34J4	2023
CXL199	2016	CZ937	562	CZF6.2D10	561	D1Z	564	D10G1052	2016	D28D10	2020	D34J5	2023
CXL223	2041	CZ937A	562	CZF9.1D	562	D1ZBLU	564	D11C1B1	2030	D28E	2020	D38H1	2009
CXL238	2055	CZ937B	562	CZF9.1D5	562	D1ZYEL	564	D11C1F1	2009	D28E(2S)	2020	D38H1-6	2009
CXL519	1122	CZ938	562	CZF9.1D10	562	D-2	1123	D11C2D1B20	2009	D28F	2020	D38H2	2009
CXL5009	565	CZ938A	562	CZF12D	563	D2-1	1104	D11C3B1	2030	D28F00BB4C	1104	D38H3	2009
CXL5010	565	CZ938B	562	CZF12D5	563	D2B000RH10	1104	D11C5B1	2030	D28F00BB40	1104	D38S1	2009
CXL5013	561	CZ939	562	CZF12D10	563	D2B000RU20	1104	D11C5F1	2009	D28F30DF20	1114	D38S5	2009
CXL5017	562	CZ939A	562	CZG4.7D	565	D2BF00RU20	1104	D11C7B1	2030	D28G	2020	D38S8	2009
CXL5018	562	CZ939B	562	CZG4.7D5	565	D2BFM115MR	1104 N1	D11C10B1	2030	D28G10E100	1114	D38S9	2009
CXL5021	563	CZ4568	561	CZG4.7D10	565	D2BFM115MS	1104 N2	D11C11B1	2030	D28GN	2020	D38Y1-3	2009
CXL5024	564	CZ4568A	561	CZG5.1D	565	D2G	562	D13TDS442X	1122	D28H	2020	D39J1	2023
CXL5069	565	CZ4566	561	CZG5.1D5	565	D2G-1	563	D13TGMA010	1122	D28J	2020	D39J1-6	2009
CXL5069	565	CZ4566A	561	CZG5.1D10	565	D2G-2	563	D15A	1104	D28K	2020	D39J2	2023
CXL5070	561	CZ4567	561	CZG6.2D	561	D2G-3	563	D15C	1104	D28L	2020	D39J3	2023
CXL5073	562	CZ4567A	561	CZG6.2D5	561	D2G-4	563	D16E7	1617	D28M	2020	D39J4	2023
CXL5400	1067	CZ4568	561	CZG6.2D10	561	D2H	1104	D16E9	1617	D28OR	2020	D39J5	2023
CXL5401	1067	CZ4568A	561	CZG9.1D	562	D2J	1104	D16EC18	1617	D28R	2020	D39J6	2023
CXL5402	1067	CZ4569	561	CZG9.1D5	562	D2L0040070	1114	D16G6	2016	D28T01E10	1104	D40E1	2017
CXL5403	1067	CZ4569A	561	CZG9.1D10	562	D2LOTVR06G	1104	D16K1	2016	D28X	2020	D40E7	2017
CXL5404	1067	CZ4570	561	CZG12D	563	D2LT040070	1114	D16K2	2016	D28Y	2020	D42C1	2017
CXL5452	1067	CZ4570A	561	CZG12D5	563	D2R31	1123	D16K3	2016	D29	2020	D42C2	2017
CXL5453	1067	CZ4571	561	CZG12D10	563	D2R38	1617	D16K4	2016	D29A	2020	D42C3	2017
CXL5454	1067	CZ4571A	561	D004	1104	D2T2904	2023	D18	1104	D29A4	2023	D42C4	2017
CXL5455	1067	CZ4572	561	D006	2016	D2T2904A	2023	D22N	1114	D29A5	2023	D42C5	2017
CXL5456	1020	CZ4572A	561	D009	2058	D2T2905	2023	D23F130TAL	1104	D29A6	2023	D42C6	2017
CXL5457	1020	CZ4573	561	D-00169C	1123	D2T2905A	2023	D23FDFA05G	1104	D29A9	2023	D42C7	2017
CXL5511	1067	CZ4573A	561	D-00184R	1122	D2U	1123	D23FDFA05G(,DFA05G-	1104	D29B	2020	D42C8	2017
CXL5512	1020	CZ4574	561	D-00204R	1123	D2Z	562	KBG)	1104	D29E	2020	D42C9	2017
CXL5640	1000	CZ4574A	561	D-00269C	1123	D3A	1101	D23FDFC10E	1104	D29E1	2023	D42C10	2020
CXL5641	1000	CZA9.1D	562	D-00284R	1123	D3F	562	D23FDFH10G	1104	D29E2	2023	D42C11	2020
CXL5642	1000	CZA9.1D5	562	D-00384R	1104	D3G	1122	D23TDF05G	1104	D29E4	2023	D42C12	2020
CXL5650	1000	CZA9.1D10	562	D-00469C	561	D3H	561	D23TDFD05G	1104	D29E5	2023	D42D1	2068
CXL5651	1000	CZA12D	563	D-00484R	1123	D3N	563	D24A3391	2016	D29E6	2023	D43C7	2027
CXL5652	1000	CZA12D5	563	D-00569C	562	D3R	1104	D24A3391A	2016	D29E7	2023	D44A10#	2020
CXL5662	1000	CZA12D10	563	D-00669C	1123	D3R38	1104	D24A3392	2016	D29E8	2023	D44C1	2020
CXL5800	1114	CZA15D	564	D01-100	1104	D3R39	1104	D24A3393	2016	D29F	2020	D44C2	2020
CXL5801	1114	CZA15D5	564	D02Z6-2W	561	D3U	1104	D24A3394	2016	D29F1	2023	D44C3	2020
CXL5802	1114	CZA15D10	564	D02Z62W	561	D3V	1104	D24A3900	2016	D29F2	2023	D44C4	2020
CXL5803	1114	CZAJ102	1104	D-05	1104	D3W	563	D24A3900A	2016	D29F3	2023	D44C5	2020
CXL5804	1114	CZB9.1D	562	D05	1104	D05	561	D24F00V09G	1104	D29F4	2023	D44C6	2020
CXL5805	1114	CZB9.1D5	562	D05G	1104	D3Z	1104	D25T5566B0	1104	D29F5	2023	D44C7	2020
CXL5806	1114	CZB9.1D10	562	D010	1123	D4C28	2030	D26B1	2016	D29F6	2023	D44C8	2020
CXL5808	1114	CZB12D	563	D031(CHAN.MASTER)	2009	D4C29	2030	D26B2	2016	D29F7	2023	D44C9	2020
CXL5809	1114	CZB12D5	563	D048	1617	D4C30	2030	D26C1	2016	D29GN	2020	D44C10	2020
CY40	1104	CZB12D10	563	D058	1617	D4C31	2030	D26C2	2016	D29J	2020	D44C11	2020
CY50	1104	CZB15D	564	D053	1617	D4D20	2030	D26C3	2016	D29K	2020	D44C12	2020
CY80	1114	CZB15D5	564	D058	2016	D4D21	2030	D26C4	2016	D29L	2020	D44C88	2017
CY100	1114	CZB15D10	564	D069	1617	D4D22	2016	D26C5	2016	D29M	2020	D44D1	2068
CZ-092	562	CZC9.1D	562	D072	2058	D4D24	1617	D26E-1	2016	D29OR	2020	D44D2	2068
CZ092	562	CZC9.1D5	562	D087	2016	D4D25	1617	D26E-2	2016	D29R	2020	D44D3	2068
CZ-094	562	CZC9.1D10	562	D088	2016	D4D26	1617	D26E2	2016	D29X	2020	D44D4	2068
CZ094	562	CZC12D	563	D093	1123	D4L	1114	D26E-3	2016	D29Y	2020	D44D5	2068
CZ4.7	565	CZC12D5	563	D0123WX	1000	D4M	1104	D26E-4	2016	D30A1	2023	D44D6	2068
CZ5.1	565	CZC12D10	563	D0J020A90	1123	D4N	563	D26E-5	2016	D30A2	2023	D44H7	2020
CZ6.2	561	CZC15D	564	D0J020A900	1123	D4R	1123	D26E-6	2016	D30A3	2023	D44H10	2020
CZ9.1	562	CZC15D5	564	D1-8	562	D4R26	1104	D26E-7	2016	D30A4	2023	D44H11	2020
CZ9.1A	562	CZC15D10	564	D1-26	1104	D5	1101	D26G-1	2016	D30A5	2023	D44M1	2020
CZ9.1B	561	CZD012	563	D1-525	1104	D5B	564	D26G1	2016	D32K1	2009	D44M2	2020
CZ9.1C	561	CZD012-5	563	D1D	1114	D5G	1104	D27C1	2020	D32K2	2009	D44M4	2020
CZ12	563	CZD015	564	D1E	1104	D5H	1104	D27C2	2020	D32P1	2016	D44M5	2020
CZ12A	562	CZD015-5	564	D1G	562	D5R35	1104	D27C3	2020	D32P2	2016	D44M7	2020
CZ12B	563	CZD9.1D	562	D1H	1104	D5R39	1104	D27C4	2020	D32P3	2016	D44M8	2020
CZ12C	563	CZD9.1D5	562	D110A243A0	1122	D5V	1122	D28	1104	D32P4	2016	D44M10	2020
CZ12D	563	CZD9.1D10	562	D1J	1104	D5W	561	D28(TRANS)	2020	D32S6	2068	D44M11	2020
CZ15	564	CZD12D	563	D1J70542	1123	D6	1101	D28A	2020	D32S7	2068	D44VH1	2020
CZ15A	564	CZD12D5	563	D1J70543	1123	D6HZ	1104	D28A1	2020	D32S10	2068	D44VH4	2020
CZ15B	564	CZD12D10	563	D1J70544	1104	D6.2	561	D28A2	2020	D32W12	2009	D44VH7	2020
CZ15C	564	CZD15D	564	D1J70545	1122	D7	1101	D28A5	2020	D33(2S)	2020	D44VH10	2020
CZ15D	564	CZD15D5	564	D1K	1114	D7A30	2030	D28A4	2020	D33#	2016	D44VM1	2020
CZ821	561	CZD15D10	564	D1K20	1104	D7A31	2030	D28A5	2020	D33B	2016	D44VM4	2020
CZ821A	561	CZE9.1D	562	D1K40	1104	D7A32	2030	D28A6	2020	D33C(2S)	2016	D44VM7	2020
CZ822	561	CZE9.1D5	562	D1L	1104	D7E	1122	D28A7	2020	D33D	2016	D44VM10	2020
CZ823	561	CZE9.1D10	562	D1N4002	1104	D7Z	1122	D28A9	2020	D33D28	1617	D45C	1104
CZ823A	561	CZE12D	563	D1R5GZ61	1114	D8HZ	1114	D28A10	2020	D33E	2016	D45CZ	1104
CZ824	561	CZE12D5	563	D1R5GZ61FA	1114	D8U	562	D28A12	2020	D33F	2016	D48	1104
CZ825	561	CZE12D10	563	D1R20Z	1102	D9B	1123	D28A13	2020	D33G	2016	D48(TRANS)	2020
CZ825A	561	CZE15D	564	D1R38	1617	D9D	1123	D28B	2020	D33GN	2016	D49(2S)	2020
CZ827	561	CZE15D5	564	D1R40Z	1103	D9E	1123	D28C	2020	D33H	2016	D49A	2020
CZ827A	561	CZE15D10	564	D1S34	1123	D9I	1123	D28D	2020	D33J	2016	D49B	2020
CZ829	561	CZF4.7D	565	D1S1553	1122	D9K	1123	D28D(2S)	2020	D33K	2016	D49C	2020
CZ829A	561	CZF4.7D5	565	D1S1554	1122	D9L	1123	D28D1	2020	D33L	2016	D49D	2020
CZ935	562	CZF4.7D10	565	D1S1555	1122	D9M	562	D28D2	2020	D33OR	2016	D49E	2020
CZ935A	562	CZF5.1D	565	D1S1555(,1S1555)	1122	D9SZ	1123	D28D3	2020	D33X	2016	D49F	2020
CZ935E	562	CZF5.1D5	565	D1S1887FA	1104	D9V	1123	D28D4	2020	D33Y	2016	D49G	2020

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D49GN	2020	D111-Y(2S)	2041	D147Y	2020	D180M(2S)	2041	D204C	2030	D220F	2030	D235R(2S)	2020
D49J	2020	D111-YEL	2041	D14#	2020	D180OR	2041	D204D	2030	D220G	2030	D235RED	2020
D49K	2020	D111R	2041	D149	2030	D180R	2041	D204E	2030	D220GN	2030	D235RY	2020
D49L	2020	D116	2041	D154(2S)	2020	D180#	2041	D204F	2030	D220H	2030	D235X	2020
D49M	2020	D118	2041	D154A	2020	D180Y	2041	D204G	2030	D220J	2030	D235Y(2S)	2020
D49OR	2020	D118BL(2S)	2041	D154B	2020	D182(2S)	2030	D204GA	2030	D220K	2030	D236(RECT.)	1171
D49R	2020	D118R(2S)	2041	D154C	2020	D182A	2030	D204GN	2030	D220L	2030	D241	2020
D49X	2020	D118Y(2S)	2041	D154E	2020	D182B	2030	D204H	2030	D220M(2S)	2030	D242(2S)	2020
D49Y	2020	D119	2041	D154F	2020	D182C	2030	D204J	2030	D220OR	2030	D242YLC	2020
D50	1101	D119-BL	2041	D154G	2020	D182D	2030	D204K	2030	D220R	2030	D243(2S)	2020
D52	2041	D119-BLU	2041	D154GN	2020	D182E	2030	D204L(2S)	2030	D220X	2030	D244	2020
D56W1	2055	D119-R	2041	D154H	2020	D182F	2030	D204M	2030	D220Y	2030	D256	2020
D56W2	2055	D119-RED	2041	D154J	2020	D182G	2030	D204R	2030	D221(2S)	2030	D257(2S)	2020
D65C	1104	D119 Y	2041	D154K	2020	D182GN	2030	D204Y	2030	D221F	2030	D258	2020
D67(2S)	2041	D119-YEL	2041	D154L	2020	D182H	2030	D205(2S)	2030	D228(2S)	2009	D259	2020
D67B(2S)	2041	D119A	2041	D154M	2020	D182J	2030	D205A	2030	D228F	2009	D288(2S)	2020
D67C(2S)	2041	D119B	2041	D154R	2020	D182K	2030	D205B	2030	D228G	2009	D288A(2S)	2020
D67D(2S)	2041	D119BL(2S)	2041	D154X	2020	D182L	2030	D205C	2030	D228GN	2009	D288B(2S)	2020
D67E(2S)	2041	D119C	2041	D154Y	2020	D182OR	2030	D205D	2030	D228H	2009	D288C(2S)	2020
D68	2041	D119D	2041	D163(2S)	2041	D182R	2030	D205E	2030	D228J	2009	D288K	2020
D69(2S)	2041	D119R(2S)	2041	D164(2S)	2041	D182X	2030	D205F	2030	D228K	2009	D288L(2S)	2020
D74(2S)	2009	D119Y(2S)	2041	D172	2041	D182Y	2030	D205G	2030	D228L	2009	D289(2S)	2020
D85C	1114	D122	2020	D172A	2041	D183(2S)	2030	D205GN	2030	D228M	2009	D289A(2S)	2020
D90(2S)	2020	D123	2020	D172B	2041	D183B	2030	D205H	2030	D228OR	2009	D289B(2S)	2020
D90A	2020	D124(RECT.)	1104	D172C	2041	D183E	2030	D205J	2030	D228R	2009	D289C(2S)	2020
D90B	2020	D130DS442X	1122	D172D	2041	D183GN	2030	D205L	2030	D228X	2009	D292	2020
D90C	2020	D130GMA010	1122	D172E	2041	D183K	2030	D205M	2030	D228Y	2009	D292(CHAN.MASTER)	2016
D90D	2020	D133	2009	D172F	2041	D183L	2030	D205OR	2030	D230DFA05G	1104	D292-0	2020
D90E	2020	D133(CHAN.MASTER)		D172G	2041	D183OR	2030	D205R	2030	D234(2S)	2020	D292A	2020
D90F	2020			D172GN	2041	D183R	2030	D205X	2030	D234-0(2S)	2020	D292B	2020
D90G	2020	D141	1617	D172H	2041	D184(2S)	2020	D205Y	2030	D234-O(2S)	2020	D292BL	2020
D90GN	2020	D141(2S)	2020	D172J	2041	D184A	2020	D206	1122	D234-ORG	2020	D292BL	2020
D90M	2020	D141(CHAN.MASTER)		D172K	2041	D184B	2020	D207(2S)	2041	D234-R(2S)	2020	D292C	2020
D90J	2020			D172L	2041	D184C	2020	D207A	2041	D234-RED	2020	D292D	2020
D90K	2020	D141A	2020	D172M	2041	D184D	2020	D211	2041	D234-Y(2S)	2020	D292E	2020
D90L	2020	D141B	2020	D172OR	2041	D184E	2020	D211(2S)	2041	D234-YEL	2020	D292F	2020
D90M	2020	D141C	2020	D172R	2041	D184F	2020	D211-OR	2041	D234A	2020	D292G	2020
D90OR	2020	D141E	2020	D172X	2041	D184H	2020	D211A	2041	D234B	2020	D292GA	2020
D90X	2020	D141F	2020	D172Y	2041	D184J	2020	D211B	2041	D234C	2020	D292GN	2020
D90Y	2020	D141G	2020	D174	2041	D184K	2020	D211C	2041	D234D	2020	D292H	2020
D91(2S)	2020	D141GN	2020	D174A	2041	D184L	2020	D211D	2041	D234E	2020	D292J	2020
D91A	2020	D141H	2020	D174B	2041	D184M	2020	D211E	2041	D234F	2020	D292K	2020
D91B	2020	D141H01(2S)	2020	D174C	2041	D184OR	2020	D211F	2041	D234G	2020	D292L	2020
D91E	2020	D141J	2020	D174D	2041	D184Y	2020	D211G	2041	D234GA	2020	D292M	2020
D91F(2S)	2020	D141K	2020	D174E	2041	D185	2020	D211GN	2041	D234GN	2020	D292OR	2020
D91G	2020	D141L	2020	D174F	2041	D188	2041	D211H	2041	D234G-O	2020	D292R	2020
D91GN	2020	D141M	2020	D174G	2041	D188A(2S)	2041	D211I	2041	D234G-R	2020	D292X	2020
D91H	2020	D141OR	2020	D174GN	2041	D188B(2S)	2041	D211K	2041	D234GR	2020	D292Y	2020
D91J	2020	D141R	2020	D174H	2041	D188C(2S)	2041	D211L	2041	D234G-Y	2020	D312(2S)	2055
D91L	2020	D141X	2020	D174J	2041	D188D	2041	D211M	2041	D234H	2020	D312A	2055
D91M	2020	D141Y	2020	D174K	2041	D188E	2041	D211OR	2041	D234J	2020	D312B	2055
D91OR	2020	D144S	1104	D174L	2041	D188F	2041	D211R	2041	D234K	2020	D312C	2055
D91R	2020	D146(2S)	2020	D174M	2041	D188G	2041	D211X	2041	D234L	2020	D312D	2055
D91X	2020	D146A	2020	D174R	2041	D188GN	2041	D211Y	2041	D234M	2020	D312E	2055
D91Y	2020	D146B	2020	D174X	2041	D188M	2041	D212(2S)	2041	D234N	2020	D312F	2055
D92T06R2B2	561	D146C	2020	D174Y	2041	D188J	2041	D213(2S)	2041	D234O	2020	D312G	2055
D93T04R70X	565	D146D	2020	D175(2S)	2041	D188L	2041	D214	2041	D234OR	2020	D312GN	2055
D93T05R10X	565	D146E	2020	D175A	2041	D188M	2041	D215(2S)	2030	D234R	2020	D312H	2055
D93T05R10Y	565	D146F	2020	D175B	2041	D188OR	2041	D216	2030	D234X	2020	D312J	2055
D93T05R100	565	D146G	2020	D175C	2041	D188R	2041	D219(2S)	2030	D234Y	2020	D312K	2055
D93T06R20Y	561	D146GN	2020	D175D	2041	D188X	2041	D219A	2030	D235(2S)	2020	D312L	2055
D93T06R200	561	D146H	2020	D175E	2041	D188Y	2041	D219A(2S)	2030	D235-0(2S)	2020	D312M	2055
D93T01200Y	563	D146J	2020	D175F	2041	D189(2S)	2041	D219B	2030	D235-O(2S)	2020	D312X	2055
D93T01200Y(GZA12B1)	563	D146K	2020	D175G	2041	D189A(2S)	2041	D219C	2030	D235-OR	2020	D312Y	2055
		D146L	2020	D175GN	2041	D189B	2041	D219D	2030	D235-ORG	2020	D313	2020
D97U06R20B	561	D146OR	2020	D175H	2041	D189C	2041	D219E	2030	D235-R(2S)	2020	D313(JAPAN)	2020
D100	1104	D146R	2020	D175J	2041	D189D	2041	D219F	2030	D235-RED	2020	D313A	2020
D105C	1114	D146UK(2S)	2020	D175K	2041	D189E	2041	D219G	2030	D235-Y(2S)	2020	D313B	2020
D107	2041	D146VK	2020	D175L	2041	D189F	2041	D219GN	2030	D235-YEL	2020	D313C(2S)	2020
D108	1114	D146X	2020	D175M	2041	D189G	2041	D219H	2030	D235A	2020	D313D(2S)	2020
D108(TRANS)	2041	D146Y	2020	D175OR	2041	D189GN	2041	D219J	2030	D235B	2020	D313DE	2020
D110	2041	D147(2S)	2020	D175R	2041	D189H	2041	D219K	2030	D235C	2020	D313E	2020
D110-0	2041	D147A	2020	D175X	2041	D189J	2041	D219L	2030	D235D(2S)	2020	D313F(2S)	2020
D110-O(2S)	2041	D147B	2020	D175Y	2041	D189K	2041	D219M	2030	D235E	2020	D313G	2020
D110-ORG	2041	D147C	2020	D17#	562	D189M	2041	D219OR	2030	D235F	2020	D313GN	2020
D110-R(2S)	2041	D147D	2020	D180(2S)	2041	D189OR	2041	D219R	2030	D235G(2S)	2020	D313H	2020
D110-RED	2041	D147E	2020	D180A(2S)	2041	D189R	2041	D219X	2030	D235GN	2020	D313I	2020
D110-Y(2S)	2041	D147F	2020	D180B(2S)	2041	D189X	2041	D219Y	2030	D235G-O	2020	D313M	2020
D110-YEL	2041	D147GN	2020	D180C(2S)	2041	D189Y	2041	D220	1101	D235G-R	2020	D313N	2020
D110A243A0	1122	D147H	2020	D180D(2S)	2041	D199(2S)	2055	D220A(TRANS)	2030	D235G-Y	2020	D313R	2020
D110A243AC	1122	D147J	2020	D180F	2041	D200(IR)	1122	D220A	2030	D235H	2020	D313Y	2020
D111	2041	D147K	2020	D180G	2041	D200MP	1122	D220A(2S)	2030	D235J	2020	D314	2020
D111-0	2041	D147L	2020	D180GN	2041	D200MP(III)	1122	D220B	2030	D235L	2020	D314A	2020
D111-O(2S)	2041	D147M	2020	D180H	2041	D204(2S)	2030	D220B(2S)	2030	D235LBY	2020	D314B	2020
D111-ORG	2041	D147OR	2020	D180J	2041	D204A	2030	D220C	2030	D235M	2020	D314C	2020
D111-R(2S)	2041	D147R	2020	D180K	2041	D204B	2030	D220D	2030	D235O	2020	D314D	2020
D111-RED	2041	D147X	2020	D180L	2041	D204BL	2030	D220E	2030	D235OR	2020	D314E	2020

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D314GN	2020	D343D	2030	D416(TPARK)	2055	D637-C	2016	D836Q	2068	D1136C(JAPAN)	2020	DA-1021	1122 N3
D314H	2020	D343H	2030	D418(2S)	2055	D637-P	2016	D836R	2068	D1172S	2068	DA-204K	1122 N3
D314L	2020	D343L	2030	D419	2068	D637-Q	2016	D837	2068	D1177	2068	DA-2047	1122 N3
D314M	2020	D343M	2030	D425(2S)	2041	D637-Q(JAPAN)	2016	D837A	2068	D1178	2068	DA305	1122
D314N	2020	D344	2030	D425-O	2041	D637-QR	2016	D837AB	2068	D1181	2068	DA1900	1104
D314R	2020	D345	2020	D425-R	2041	D637-R	2016	D837AD	2068	D1183	2068	DA1703	1101
D314Y	2020	D346	2020	D425O	2041	D637-R(JAPAN)	2016	D837AQ	2068	D1184	2068	DA1704	1101
D315(2S)	2020	D347	2020	D426	2041	D637C	2016	D837AR	2068	D1185	2068	DA2068	1114
D315C	2020	D348	2055	D426-O	2041	D637CR	2016	D837B	2068	D1186	2068	DAAY001002	1123
D315D	2020	D350	2055	D426-R	2041	D637O	2016	D837LB	2068	D1206Q	2016	DAAY002001	1104
D315E	2020	D350A	2055	D427	2041	D637P	2016	D837O	2068	D1206R	2016	DAAY002502	1123
D316	2041	D350Q(2S)	2055	D427-O	2041	D637PQR	2016	D837P	2068	D1206P(JAPAN)	2020	DAAY003001	1123
D316-1	2041	D350T	2055	D427-R	2041	D637Q	2016	D837Q	2068	D1206Q	2020	DAAY010092	542
D316-2	2041	D356	2020	D428(IR)	1104	D637Q(JAPAN)	2016	D837R	2068	D1273A-AP	2068	DAJ201	1122 N2
D317(2S)	2020	D356C	2020	D460	2068	D637QR	2016	D843	2020	D1274-LB	2068	DAN201	1122 N2
D317A(2S)	2020	D356D	2020	D467	2009	D637R	2016	D849	2055	D1276A	2068	DAN201VA	1122 N2
D317AF	2020	D356E	2020	D467-C	2009	D637S	2016	D856	2020	D1276AP	2068	DAN207-100	1102 N2
D317AP	2020	D356F	2020	D467B	2009	D637T	2016	D856A	2020	D1276B	2068	DAN207-200	1102 N2
D317F(2S)	2020	D357C	2020	D467C	2009	D638	2030	D856B	2020	D1276LB	2068	DAN207-400	1102 N2
D317P(2S)	2020	D357D	2020	D467C(JAPAN)	2009	D638-R	2030	D856L	2020	D1276P	2068	DAN208-100	1104 N2
D318(2S)	2020	D357E	2020	D469	2041	D638P	2030	D856LB	2020	D1277B	2068	DAN208-200	1114 N2
D318-O	2020	D358	2020	D474(K)	2016	D638Q	2030	D856M	2020	D1277B(JAPAN)	2068	DAN211	1104 N2
D318A(2S)	2020	D358C	2020	D475	2020	D638R	2030	D856MLB	2020	D1301	2035	DAN200600	1123
D318B	2020	D358D	2020	D475A	2020	D638S	2030	D856O	2020	D1302	2035	DAN2006000	1123
D318F	2020	D358I	2020	D476	2020	D639	2030	D856P	2020	D1303	2035	DAN2006000C	1123
D318Q	2020	D359(2S)	2020	D476A	2020	D639P	2030	D856Q	2020	D1318	2030	DAP101	1122 N1
D322(2S)	2041	D359C(2S)	2020	D476AKB	2020	D639Q	2030	D856R	2020	D1406	2020	DAP201VA	1122 N2
D322A(2S)	2041	D359C2(2S)	2020	D476AKC	2020	D639R	2030	D857	2020	D1406-Y	2020	DAP207-100	1104 N1
D322B(2S)	2041	D359D(2S)	2020	D476B	2020	D639S	2030	D857A	2020	D1406GR	2020	DAP207-200	1104 N1
D322C(2S)	2041	D359D1(2S)	2020	D476C	2020	D639T	2030	D857B	2020	D1406Y(JAPAN)	2020	DAP207-400	1104 N1
D323(2S)	2041	D359D2(2S)	2020	D476D	2020	D649	2035	D857C	2068	D1420	2035	DAP208-100	1104 N1
D323A(2S)	2041	D360(2S)	2020	D476E	2020	D649Q	2035	D866	2020	D1421	2035	DAP208-200	1104 N1
D323B(2S)	2041	D360D(2S)	2020	D476EB	2020	D654	2035	D866A	2020	D1445	1104	DAP211	1104 N1
D323C(2S)	2041	D360E(2S)	2020	D476KC	2020	D655D(JAPAN)	1617	D866B	2020	D1466	2016	DA52138850	1122
D325(2S)	2017	D361	2020	D476O	2020	D661	2016	D866D	2020	D1466	2035	D8202	1104
D325-1	2017	D361C	2020	D476YL	2020	D661-R(JAPAN)	2016	D866P	2020	D2340	2020	DB204	1103
D325-OR	2017	D361D	2020	D477	2020	D661S	2016	D866Q	2020	D2350	2020	DB206	1104
D325A	2017	D365	2020	D492	2041	D661T	2016	D866R	2020	D2600EF	1104	DB208	1114
D325B	2017	D365A	2020	D500	1104	D664	2068	D867	2041	D3436	1104	DB210	1114
D325C(2S)	2017	D365B	2020	D513	2020	D671	2009	D878	2041	D40118C	2411	DBA108	1171
D325D(2S)	2017	D365H(2S)	2020	D517	2055	D686	2068	D880	2020	D48196C	2413	DBA108	1173
D325E(2S)	2017	D365F	2020	D527	2041	D687	2068	D880GR	2020	D40170C	2417	DBB407004	3020
D325F(2S)	2017	D366	2020	D525	2070	D691	2068	D880Y	2020	D4849USC	2449	DBC2017300	3016
D325G	2017	D366A	2020	D525-O	2020	D704	2020	D880Y(JAPAN)	2020	D4850	2041	DBC2019484	3016
D325GN	2017	D366B(2S)	2055	D525-Y	2020	D704B	2020	D880Y(KOREA)	2020	D4442	1122	DBC20173004	3016
D325H	2017	D370	2041	D525R	2020	D704E	2020	D886	2020	D6623	1104	DBC2073503	2009
D325J	2017	D379(2S)	2041	D525Y	2020	D721	2068	D886A	2020	D6623A	1104	DBC2073504	2009
D325K	2017	D380(2S)	2055	D526	2020	D723	2020	D886F	2020	D6624	1104	DBC2083905	2009
D325L	2017	D380A	2055	D526-O	2020	D725	2055	D886P	2020	D6624A	1104	DBC2083906	1617
D325M	2017	D381	2020	D531	2020	D725-06	2055	D886Q	2020	D6625	1104	DBC2094504	2016
D325OR	2017	D381K	2020	D544	2055	D726	2055	D889	2016	D6625A	1104	DBE2134424	1617
D325R	2017	D381L	2020	D560	2068	D734	2020	D889Q	2016	D6626	1122	DBE21373000	2016
D325X	2017	D381M	2020	D570	2020	D734-NP	2020	D889P	2016	D6626	1122	BC	1104 N2
D325Y	2017	D381S(2S)	2020	D575	2055	D734E	2055	D889T	2016	D6634	2016	BC-13	1123
D327(2S)	2009	D381S	2068	D575L	2055	D734F	2055	D889T	2016	D6634	2016	DB457	1122
D327-V	2009	D389(2S)	2020	D577	2055	D734G	2009	D919	2009	D1016B	1104	DCA25B	1114 N2
D327A(2S)	2009	D389-O	2020	D581	2041	D743	2020	D940W01120	563	D20000B840	1104	DCA25C	1114 N2
D327B(2S)	2009	D389-O(2S)	2020	D581A	2041	D743A	2020	D959LB	2020	D21489	1104	DCA25E	1114 N2
D327C(2S)	2009	D389A(2S)	2020	D582	2041	D743R	2020	D959Q	2020	D24000V09G	1104	DCB25B	1114 N1
D327D(2S)	2009	D389AF	2020	D582A	2041	D762	2020	D960	2020	D28000B840	1104	DCB25C	1114 N1
D327E(2S)	2009	D389AFO	2020	D589	2055	D762-O(JAPAN)	2020	D960Q(JAPAN)	2020	D920048780	565	DCB25E	1114 N1
D327F(2S)	2009	D389AFO	2020	D590	2020	D762P	2020	D969	2030	D9200487B1	565	DCB25F	1122 N1
D327L	2009	D389AFP(2S)	2020	D591	2016	D762P(JAPAN)	2020	D1000	1114	D92005180	565	DCB25G	1122 N1
D327OR	2009	D389AD	2020	D591R	2016	D762Q	2020	D1010	2016	D93004870X	565	DCB25H-01	1164
D327N	2009	D389AF	2020	D592	2068	D767R	2009	D1010S	2016	D93004870Z	565	DCV6	1114
D328(2S)	2030	D389AQ	2020	D592ANC	2009	D778	2009	D1012	2009	D93005R10X	565	DD-000	1104
D328S(2S)	2030	D389BLB	2020	D592NC	2009	D778Q	2009	D1012F	2009	D97006R20B	561	DD000	1101
D330	2020	D389BLB-O	2020	D592R	2009	D778R	2009	D1012G1	2009	D101167	1104	DD-003	1104
D330D(2S)	2020	D389BLB-P	2020	D599	2016	D783	2055	D1022	2068	D230130TAL	1104	DD003	1104
D330E	2020	D389BP	2020	D603	2009	D792	2055	D1024	2068	D280010D40	1114	DD-006	1104
D331	2020	D389L	2020	D413	2070	D792S	2055	D1044A	2068	D9700120B1	565	DD006	1104
D334(2S)	2041	D389LB(2S)	2020	D613P	2020	D792T	2055	D1066K	2041	D92001200Y	565	DD007	1104
D334A(2S)	2041	D389LP	2020	D633	2068	D806	1114	D1061	2020	D92001200Y	565	DD007	1104
D334R(2S)	2041	D389LP	2020	D634	2068	D804	2020	D1099-42M	2017	D93011201B	565	DD05	1101
D339	2041	D389P	2020	D635	2068	D804H	2020	D1101	2035	DA000	1104	DD05(IR)	1101
D339-1	2041	D389Q	2020	D636	2009	D804HLB	2020	D1102	2035	DA001	1104	DD06	1101
D339-2	2041	D389R	2020	D636-O	2009	D804HP	2020	D1103	2055	DA002	1104	DD06(IR)	1101
D340	2041	D390	2020	D636-O	2009	D807	2055	D1131B	2020	DA058	1114	DD07(IR)	1101
D340-1	2041	D390A	2020	D636-Q(JAPAN)	2009	D807M	2055	D1131C	2020	DA90	1123	DD056	1104
D340-2	2041	D390P	2020	D636-R	2009	D820	2055	D1131D	2020	DA101	1122	DD058	1114
D341(2S)	2041	D390Q	2020	D636-R(JAPAN)	2009	D820-1(JAPAN)	2055	D1132B	2020	DA101A	1122	DD15954	1122
D341H(2S)	2041	D391	2009	D636P	2009	D821	2055	D1132C	2020	DA101B	1122	DD10A	1114
D342(2S)	2020	D394	2055	D636Q	2009	D822	2055	D1132D	2020	DA101C	1122	DD175C	1104
D343(2S)	2020	D394	2055	D636R	2009	D822P	2055	D1132B	2020	DA101A	1122	DD175C	1104
D343A	2020	D404G	2020	D636S	2009	D822Q	2055	D1133C	2020	DA101B	1122	DD177C	1104
D343B	2020	D405(2S)	2055	D636T	2009	D834	2055	D1133(JAPAN)	2020	DA201	1122 N3	DD236	1104
D343C	2020	D405	2068	D637	2016	D836A	2055	D1133-J(JAPAN)	2020	DA-202K	1122 N3	DD266	1104

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-		
DD268	1114	DE110	1122	DGGZA6.2-X(GZA6.2		DIJ72164	1122	DR318	1123	DS2N22	1104	DS-71	2016
DD1000	1101	DE111	1122	(Y))	561	DIJ72165	562	DR319	1123	DS2P	1144	DS71	2016
DD2066	1104	DE112	1122	DGGZA6.2-Y	561	DIJ72166	1123	DR326	1123	DS5BN-L	1104	DS-72	2016
DD2068	1114	DE113	1122	DGGZA6.2X	561	DIJ72168	1104	DR327	1122	DS-10	1104	DS72	2016
DD2320	1104	DE114	1122	DGGZA6.2X(GZA6.2		DIJ72172	562	DR329	1123	DS-13	1114	DS-73	2016
DD2321	1104	DE115	1122	(Y))	561	DIJ72292	1114	DR330	1123	DS-13(COURIER)	1104	DS73	2016
DD2327	1114	DE-201	1104	DGGZA9.1-Z	562	DIJ72293	561	DR338	1123	DS-13A(SANYO)	1104	DS-74	2016
DD3078	1114	DE201	1104	DGGZA9.1-Z(GZA9.1Z)		DIJ72294	1123	DR351	1123	DS13B	1144	DS74	2016
DDAY001001	1123	DER1	1114		562	DIK	1114	DR352	1123	DS-13B(SANYO)	1104	DS-75	2009
DDAY001002	1123	DF-2	2041	DGGZA9.1Z	562	DIL	1104	DR365	1123	DS-14(DIODE)	1104	DS75	2016
DDAY001004	1123	DF64D	1114	DGGZM6.2-B2	561	DIS-15	1104	DR366	1123	DS-14(SANYO)	1101	DS-76	1617
DDAY001010	1123	DFA01C	1122	DGGZM9.1-B2	562	DIS15	1104	DR385	1123	DS15A	1114	DS76	1617
DDAY001022	1123	DFA01G	1104	D-GM-2	1123	DK19	1123	DR389	1123	DS15B	1114	DS-77	2009
DDAY002001	1104	DFA05B	1104	DGM-2	1123	DK20	1123	DR400	1104	DS15C	1104	DS77	1617
DDAY002002	1104	DFA05C	1104	DGM-3	1123	DK21	1123	DR426	1123	DS15E	1104	DS-78	2016
DDAY004001	1122	DFA05E	1104	DGM3	1123	DKD51555	1122	DR427	1104	DS-16(SEARS-DIODE)		DS-78	2016
DDAY007001	033	DFA05G	1104	DH-001	1104	DKEK-04	1102	DR434	1123		1104	DS-79	1104
DDAY008001	561	DFA05G-KB4	1104	DH-002	1104	DMA090A-M	1123	DR435	1101	DS-16A	1104	DS79	1104
DDAY010002	562	DFA05G-KBG	1104	DH152076	1122	DM-40	038	DR449	1123	DS16A	1104	DS-79(DELCO)	1104
DDAY010005	562	DFA1A2	1104	DH152076A	1122	DM-87	1712	DR463	1123	DS-16A(SANYO)	1114	DS-80	1104
DDAY042001	1104	DFA1A4	1104	DH4R2	1104	DM87	1712	DR464	1123	DS-16B	1104	DS80	1104
DDAY047001	1122	DFB05B	1104	DH14	1104	DM-94	1770	DR500	1104	DS16B	1104	DS-81	2058
DDAY047005	1122	DFB05C	1104	DH14A	1104	DM7400	1801	DR600	1104	DS-16B(SANYO)	1104	DS81	2016
DDAY-048001	1122	DFB05E	1104	DH16	1104	DM7400J	1801	DR664	1122	DS-16B(SYLVANIA)	1104	DS-82	2023
DDAY048001	1122	DFB05G	1104	DH16A	1104	DM7000N	1801	DR668	1104	DS16C	1104	DS82	2023
DDAY048007	1122	DFC10E	1104	DHD800	1122	DM7401J	1801	DR669	1104	DS-16C(SANYO)	1104	DS-83	2023
DDAY048008	1122	DFC10E-KB4	1104	DHD805	1122	DM7401N	1801	DR670	1103	DS-16D	1104	DS83	2023
DDAY048012	1122	DFC10G	1104	DHD806	1122	DM7404N	1802	DR671	1104	DS16D	1104	DS-85	2016
DDAY048013	1122	DFD05G	1104	DHD8001	1122	DM7408J	1822	DR677	1122	DS-16D(SANYO)	1104	DS85	2016
DDAY048014	1122	DFEQA02-05C	565	DI-1	1123	DM7408N	1822	DR695	1104	DS-16E	1104	DS-88	2035
DDAY069001	1122	DFEQA02-05C(EQA02-05(C))	565	DI-2	1123	DM7447AJ	1805	DR698	1104	DS16E	1104	DS88	2035
DDAY103001	1104	DFEQA02-05C(EQA02-05(D))	565	DI-7	1104	DM7447AN	1805	DR699	1103	DS-16E(SANYO)	1104	DS-94	2009
DDAY126001	562	DFEQA02-05C(EQA02-05(D))	565	DI7	1104	DM7447N	1805	DR700	1114	DS16N	1104	DS-97	1122
DDBY002001	1104	DFFQA02-09D	562	DI-8	562	DM7490	1808	DR800	1114	DS16NA	1114	DS97	1122
DDBY003001	2023	DFERA81-004	1165	DI-8(COURIER)	562	DM7490AN	1808	DR826	1103	DS16NB	1104	DS97(DELCO)	1122
DDBY003002	2023	DFERB12-01	1104	DI-8(DIODE)	1123	DM7490J	1808	DR848	1104	DS16NC	1104	DS99	562
DDBY003003	2023	DFERB12-02	1114	DI-20	1122	DM7490N	1808	DR852	1122	DS-16ND	1104	DS104	1122
DDBY004001	2023	DFERC04-02	1114	DI-42S	1104	DMMA4051-H	565	DR863	1104	DS16ND	1104	DS-107	565
DDBY007002	2023	DFG1A2	1102	DI42S	1104	DMMA4051-M	565	DR900	1114	DS-16NE	1104	DS-108	563
DDBY008001	2023	DFG1A4	1103	DI-46	1104	DMMA4091-M	562	DR1000	1114	DS16NE	1104	DS-113	1122
DDBY209003	2009	DFG1A8	1114	DI46	1104	DND800	1122	DR100	1104	DS-16NY	1104	DS-117	1122
DDBY216002	2058	DFG2A2	1114	DI-52S	1104	DNRD5.1E-B3	565	DR5101	1104	DS-16YA	1104	DS117	1122
DDBY219001	2058	DFG2A4	1114	DI52S	1104	DNRD5.1E-B3(RD5.1		DR5102	1104	DS17(ADMIRAL)	1104	DS118A	1143
DDBY222002	2009	DFG2A6	1114	DI-55	1104	(E)B3)	565	DR-104532	1000	DS-17(SANYO)	1104	DS118B	1144
DDBY224001	2009	DFG2A8	1114	DI-56	1104	DNRD6.2E	561	DRA01B	1067	DS-17-6A	1104	DS-130	1104
DDBY224003	2009	DFH10G-KB4	1104	DI56	1104	DNRD6.2E(RD6.2E(B2))		DRA01C	1067	DS17N	1104	DS130A	1114
DDBY224004	2009	DFH10GKB4	1104	DI-71	1104	DNRD6.2E(RD6.2E(B3))		DRA01E	1020	DS-18	1104	DS-130B	1104
DDBY224006	2009	DFH10GKB4	1104	DI-72S	1104		561	DRA03A	1067	DS18	1101	DS130B	1104
DDBY228001	2020	DG1-005	1104	DI-172S	1104	DNRD6.2E-B1-B3	561	DRA03B	1067	DS-18(GE)	1104	DS-130C	1104
DDBY233001	2009	DG1K	1114	DI-64S	1104	DNRD6.2E-B2	561	DRA03C	1067	DS-18(SANYO)	1104	DS130C	1104
DDBY259001	2009	DG1M	1104	DI64S	1104	DNRD6.2E-B2(GEA6.2		DRA03D	1020	DS18(SEARS)	1104	DS130D	1104
DDBY259002	2009	DG1MR	1104	DI-646	1104	DNRD6.2E-B2(GEA6.2		DRA03E	1020	DS18N	1104	DS-130E	1104
DDBY261002	2016	DG1N60	1123	(E)B2	561	DRA2A	1067	DRA2A	1067	DS19	1102	DS130E	1104
DDBY262001	2009	DG1PR	1104	DI-647	1104	DNRD6.2E-B3	561	DRA2B	1067	DS-19(RECTIFIER)	1104	DS130NA	1114
DDBY269001	2016	DG1534	1123	DI-647	1104	DNRD6.2L	561	DRA2C	1067	DS-19(SANYO)	1104	DS130NB	1104
DDBY273001	2009	DG15188	1123	DI-648	1104	DO31	2009	DRA2E	1020	DS-27	1123	DS130NC	1104
DDBY277002	2009	DG15188-FM	1123	DI-649	1104	DO87	2016	DRA8E	1067	DS27	1123	DS130ND	1104
DDBY278001	2020	DG2-006	1104	DI-650	1114	DO88	2016	DRB3B	1067	DS31	1122	DS130NE	1104
DDBY278002	2020	DGA5	1122	DI-705	1104	DP13B00-2	1151	DRB3C	1067	DS31(DELCO)	1123	DS130T	1114
DDBY283001	2016	DGDS135D	1102	DI-705	1104	DP13B01-2	1171	DRB3E	1020	DS-32	1123	DS130TA	1114
DDBY287001	2016	DGDS135E	1104	DI-1649	1104	DP13B04-2	1173	DRS1	1104	DS32	1123	DS-130TA-L	1104
DDBY295002	2016	DGDS442X	1122	DI1649	1104	DP100	1114	DRS2	1114	DS-33	1123	DS130TA-L	1104
DDBY299001	2009	DGDS442X	1122	DICR1	1114	DR1	1104	DRS101	1104	DS33	1123	DS130TAL-FB2	1104
DDBY301001	2009	DGGMA01	1122	DID	1114	DR1PR	1104	DRS102	1104	DS33(DELCO)	1123	DS-130TA-5	1104
DDBY407001	2020	DGGMA01-L	1122	DIDS442X	1122	DR2	1104	DRS104	1104	DS-38	1122	DS130TB	1114
DDBY407004	2009	DGGZA5.1-X(GZA5.1	565	DIDS448-FA1	1122	DR3	1104	DRS106	1104	DS38(SANYO)	1104	DS130TC	1114
DDBY410002	2009	(X))	565	DIE	1104	DR4	1104	DRS107	1114	DS-39	1123	DS130TD	1114
DDBY4233001	2016	DGGZA5.1-X(GZA5.1	565	DIJ	1104	DR5	1104	DRS108	1114	DS39	1123	DS130TE	1114
DDCY001002	2035	(Y))	565	DIJ61224	1123	DR50	1104	DRS110	1114	DS-43	562	DS-130YB	1104
DDCY002002	2035	DGGZA5.1-Y(GZA5.1	565	DIJ70486	1122	DR100	1104	DS-0065	1104	DS43	562	DS130YC	1104
DDCY006001	2035	(Y))	565	DIJ70488	1104	DR128	1123	DS0065	1104	DS-44	2009	DS130YE	1104
DDCY007002	2023	DGGZA5.1-Y(GZA5.1	565	DIJ70542	1123	DR200	1104	DS1	1104	DS44	1617	DS-131	1104
DDE-201	1104	DGGZA5.1-Z	565	DIJ70543	1123	DR202	1104	DS1B	1617	DS-45	2009	DS131	1104
DDEY029001	1808	DGGZA5.1X(GZA5.1	565	DIJ70544	1104	DR204	1103	DS1-K	1114	DS45	1617	DS-131A	1104
DDEY030001	1801	DGGZA5.1Y(GZA5.1	565	DIJ70545	1122	DR206	1104	DS1K	1104	DS-46	2009	DS131A	1104
DDEY058001	2411	DGGZA6.2	561	DIJ70644	1123	DR207	1123	DS1K7	1104	DS46	1617	DS-131B	1104
DDEY084001	2411	DGGZA6.2(X))	561	DIJ70645	1123	DR208	1114	DS-1M	1104	DS-47	1617	DS131B	1104
DDEY089001	2411	DGGZA6.2(X))	561	DIJ70646	1123	DR209	1122	DS1M	1104	DS47	1617	DS132	1104 N1
DDMV-1	1123	DGGZA6.2(X))	561	DIJ70695	1104	DR210	1114	DS1N	1104	DS48	562	DS132A	1104
DDMV-2	1123	DGGZA6.2(X))	561	DIJ71273	1122	DR213	1123	DS-1P	1104	DS58(SANYO)	1104	DS-132B	1104
DE14	1104	DGGZA6.2(X))	561	DIJ71711	1122	DR283	1123	DS1P	1104	DS-66	1617	DS132B	1104
DE14A	1104	DGGZA6.2(X))	561	DIJ71776	1123	DR291	1123	DS-1U	1101	DS66	1617	DS133A	1104
DE16	1104	DGGZA6.2(X))	561	DIJ71778	1123	DR300	1104	DS-1.5-2	1114	DS-66W	2009	DS135	1102
DE16A	1104	DGGZA6.2(X))	561	DIJ71895-1	1122	DR301	1122	DS2K	1104	DS-67	1617	DS135C	1104
DE104	1122	DGGZA6.2(X))	561	DIJ71958	1104	DR303	1123	DS2M	1114	DS67	1617	DS135C-AT	1102
				DIJ71959	1104	DR307	1123	DS-2N	1114	DS-67W	2009	DS135D	1102
				DIJ71960	1122	DR314	1123	DS2N	1104	DS67W	1617	DS135E	1104

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DS123F	1104	DSF108	1104	DX0101CE	1104	DYDAP201VA	1122 N2	E102	2062	E1720R	1114	EA15X55	2016
DS130	1114	DSF10C	1102	DX0105TA	1104	DYMTZ3.1-1(MTZ5.1(B))	1104	E102(ELCOM)	2035	E1725RM	1104	EA15X55P	2016
DS130A	1114	DSF10E	1103	DX0110CE	1103	E103	565	E103	565	E1750Z	561	EA15X56	1617
DS130B	1114	DSF10G	1104	DX0115CE	1104	DYMTZ5.1-C	565	E104(ELCOM)	1104	E1775R	1122	EA15X56CL	2020
DS130C	1114	DS-1M	1104	DX0123CE	1104	DYMTZ6.2-C	561	E108	1114	E1786R	1104	EA15X57	2020
DS159	561	DSS953	1122	DX0125CE	1104	DYMTZ9.1-C	562	E108(ELCOM)	1114	E1789R	1102	EA15X58	1617
DS160(G.E.)	1104	DSS16685	1123	DX0126CE	1104	DZ9A4	2023	E125C200	1104	E1791R	1104	EA15X59	1617
DS230B	1104	DSZ3009	562	DX0128CE	1114	DZ-12	563	E135	1104	E1791R(,ERB43-04)	1104	EA15X60	2009
DS330A	1104	DSZ3012	563	DX0130CE	1104	DZ-12A	563	E143	1104	E1794R	1104	EA15X63	1617
DS330B	1104	DT161	1617	DX0131CE	1104	DZ12A	563	E146	1104	E1794R(,C44-04)	1104	EA15X63CL	2009
DS-410	1122	DT230A	1122	DX0142CE	1122	DZ-15A	564	E150L	1104	E1829R	1114	EA15X68	1617
DS410	1122	DT230F	1122	DX0153CE	1104	DZ15A	564	E-185B121712	2030	E1852	569	EA15X72	1617
DS-410(AMPEX)	1122	DT230G	1122	DX0154CE	1102	DZ86.2	561	E201	2035	E2430	1617	EA15X73	1617
DS410(COURIER)	1122	DT1110	2030	DX0155CE	1102	DZB9.1	562	E202	1114	E2431	1617	EA15X75	1617
DS410(EMERSON)	1122	DT1111	2030	DX-0156	1123	DZB12	563	E202(ELCOM)	1114	E2434	2016	EA15X75CL	2009
DS410(FANON)	1122	DT1112	2030	DX-0161	1123	DZB12C	563	E203	2035	E2435	2016	EA15X76	1617
DS410(G.E.)	1123	DT1120	2030	DX-0162	1123	DZB15	564	E210	2009	E2436	1617	EA15X76CL	2009
DS-410(MOTOROLA)		DT1121	2030	DX0181CE	1104	E0018	1123	E211	2062	E2441	2030	EA15X77	1617
	1617	DT1122	2030	DX0202CE	1104	E09-306112	1122	E212	2009	E2444	1617	EA15X77CL	2009
DS410(OLYMPIC)	1122	DT1311	2030	DX0204CE	1122 N3	E-075L	1104	E213	2023	E2449	2030	EA15X83	1617
DS410(WESTINGHOUSE)		DT1321	2030	DX0206	1104	E075L	1104	E230	2035	E2452	1617	EA15X84	1617
	1122	DT1330	2030	DX0220CE	1102	E0100AD	1067	E231	2035	E2454	1617	EA15X84CL	2009
DS410R	1122	DT1511	2030	DX-0241	1123	E0100FD	1067	E262	563	E2455	1617	EA15X85	1617
DS410K(G.E.)	1123	DT1512	2030	DX0248CE	1104	E0100YD	1067	E295ZZ01	1123	E2459	1617	EA15X85CL	2009
DS-430	1104	DT1520	2030	DX-0253	1123	E0102AA	1067	E300	2035	E2461	1617	EA15X86	1617
DS430	1104	DT1521	2030	DX-0255	1122	E0102AB	1067	E300L	1104	E2484	1123	EA15X90	2009
DS441	1122	DT1522	2030	DX-0270	1122	E0102AD	1067	E302(ELCOM)	1143	E2486	561	EA15X91	1617
DS-442	1122	DT1610	1617	DX-0273	1122	E0102FA	1067	E304	2035	E2496	2020	EA15X94	2016
DS442	1122	DT1612	2030	DX-0287	1122	E0102FB	1067	E304(ELCOM)	1144	E2497	1617	EA15X94CL	2016
DS442FM	1122	DT4011	2041	DX-0299	1122	E0102FD	1067	E305	2035	E2499	1617	EA15X94P	2016
DS442X	1122	DT4110	2041	DX-0349	1104	E0102YA	1067	E500L	1104	E3006	1104	EA15X96	1617
DS442X-BT	1122	DT4111	2041	DX-0398	565	E0102YB	1067	E650L	1104	E4676B	1104	EA15X101	1617
DS443	1122	DT4120	2041	DX-0398(,15S119)	1122	E0102YD	1067	E614	1122	E7441	1104	EA15X102	2009
DS444	1122	DT4121	2041	DX-0402	562	E0704-W	1104	E9625	2058	E9625	2058	EA15X103	1617
DS444	1122	DT42B	1000	DX-0403	563	E-0704W	1104	E751(ELCOM)	1104	E10116	1104	EA15X105CL	2009
DS448-FA1	1122	DTA2C	1000	DX-0408	561	E0704W	1144	E756(ELCOM)	1104	E10157	1104	EA15X111	1617
DS448FA1	1122	DTA2E	1000	DX-0445	1102	E0771-3	562	E758(ELCOM)	1114	E10171	1104	EA15X112	1617
DS452	1104	DTA3C	1000	DX-0475	1104	E0771-7	563	E760(ELCOM)	1114	E10172	1104	EA15X113	2016
DS454	1104	DTA3E	1000	DX0475	1104	E0788-C	1104	E842	2016	E21135	1123	EA15X122	1122
DS-509	2041	DTA8C	1000	DX-0530	561	E0788C	1104	E843	2016	E21430	1123	EA15X126	565
DS509	2041	DTA10C	1000	DX-0543	1122	E03155-001	1104	E844	2016	E21431	561	EA15X130	2016
DS-512	2020	DT9011	2055	DX-0721	1114	E03155-002	1104	E1010	1104	E24100	1104	EA15X130A	2016
DS512	2020	DT9013	2055	DX-0725	1123	E1	1104	E1011	1104	E24101	1114	EA15X131	2016
DS-513	2020	DT9013	2055	DX-0728	562	E1A	2016	E1018N	1104	E24103	1617	EA15X131A	2016
DS513	2020	DT903	2055	DX-0987	565	E1A3	1101	E1031RT	1123	EA000-15000	2411	EA15X132	2016
DS-514	2041	DT907	2055	DX520	1104	E1CM-0060	705	E1031RXT	1123	EA005	1104	EA15X132L	2016
DS514	2041	DT907	2055	DX-1039	1104	E1M3	1114	E1121R	1122	EA0013	2016	EA15X134	2016
DS-519	2041	DT907	2055	DX1039	1104	E1N3	1114	E1124	1104	EA0015	1104	EA15X134L	2016
DS519	2041	DT907	2055	DX-1139	1122	E2	1104	E1138R	1122	EA0016	1104	EA15X135	2016
DS-781	2016	DT907	2055	DX-1161	1104	E-25C536AG-SP	2009	E1143RD	1114	EA0031	1104	EA15X135L	2016
DS148E	1320	DT907	2055	DX-1163	563	E-25C536E-NF	2009	E1146J	1104	EA0081	2030	EA15X136	1617
DS148H	1320	DT907	2055	DX-1165	1020	E-25C930E-NF	2016	E1146R	1104	EA0090	2009	EA15X137	2009
DS148H	1320	DT907	2055	DX-1193	565	E-25C930E-NF	2016	E1153RB	1104	EA0091	2016	EA15X142	1617
DS148H	1320	DT907	2055	DX-1194	561	E-25C1923-O	2030	E1156RD	1104	EA0092	2016	EA15X143	1617
DS148J	1320	DT907	2055	DX-1229	1114	E-25D73AG	2009	E1157RMA	1104	EA0093	2016	EA15X144	2020
DS1489N	2521	DT907	2055	DX-1325	1123	E3	1104	E1158ZA	561	EA0094	2016	EA15X152	2016
DS4003	1102	DT907	2055	DX-1535	564	E5	1104	E1176R	1122	EA0095	2016	EA15X153	1617
DS4148	1122	DT907	2055	DX-1662	1114	E6	1104	E1221R	1122	EA01-07R	564	EA15X157	2009
DS5295G	1104	DT907	2055	DX-1692	1173	E8	1104	E1229R	1122	EA010	1104	EA15X160	2017
DS5295J	1104	DT907	2055	DX-1912	1104	E9	1114	E1237RF	1104	EA020	1104	EA15X161	2016
DSA110	1122	DT907	2055	DX-1993	555	E10	1114	E1356R	1122	EA030	1104	EA15X162	1617
DSA015	1122	DT907	2055	DX-2230	1122	E13-000-09	1617	E1270R	1104	EA060	1104	EA15X163	1617
DSA1A1	1104	DT907	2055	DX-2231	565	E13-000-04	1617	E1266R	1122	EA050	1104	EA15X165	2016
DSA1A2	1104	DT907	2055	DX-2232	1102	E13-001-02	2023	E1304R	1114	EA060	1104	EA15X167	1617
DSA1A4	1103	DT907	2055	DX-2253	561	E13-001-03	2023	E1308R	1104	EA080	1114	EA15X168	2030
DSA10G	1114	DT907	2055	DX-2272	1122	E13-001-04	2023	E1315R	1114	EA0X12	2020&27	EA15X169	2035
DSA10J	1114	DT907	2055	DX-2273	1104	E13-002-03	1617	E1324R	1122	EA15X1	1617	EA15X171	1122
DSA10L	1114	DU400	1104	DX-2274	1104	E13-003-00	1617	E1332R	1122	EA15X9	1617	EA15X172	1122
DSA12B	1114	DU600	1104	DX-2275	1104	E13-003-01	1617	E1339R	1104	EA15X14	1114 N1	EA15X180	2009
DSA12C	1114	DU800	1114	DX-2276	1103	E13-004-00	2009	E1410	1104	EA15X18	1617	EA15X185	2023
DSA12E	1114	DU1500	1114	DX-2277	1104	E13-005-02	1617	E1411	1104	EA15X18CL	2009	EA15X189	2009
DSA12G	1114	DU1500	2035	DX-2277(,P#15)	1104	E13-006-02	2023	E1412	1104	EA15X20	1617	EA15X190	2009
DSA12J	1114	DU1500	1122 N1	DX-2281	1020	E13-009-00	2055	E1412R	1104	EA15X22	1617	EA15X192	2035
DSA12L	1114	DU1500	1122 N2	DX-2306	563	E13-013-03	1101	E1413	1104	EA15X24	1617	EA15X194	2020
DSA17B	1114	DX-0001	1101	DX-2321	1114	E13-013-04	1101	E1413R	1104	EA15X31	1617	EA15X213	2016
DSA17C	1114	DX-0021	1122	DX2322	1123	E13-017-01	1122	E1415	1104	EA15X37	1617	EA15X233	2023
DSA17E	1114	DX0022	1122	DX2327	1122	E13-020-00	1104	E1428R	1104	EA15X44	1617	EA15X237	1617
DSA26B	1114	DX0038CE	1103	DX-2443	1103	E13-021-03	1101	E1440	1104	EA15X44P	2016	EA15X238	2035
DSA26C	1114	DX0055CE	1104	DX-2447	1122	E13-20-00	1104	E1442R	1104	EA15X45	1617	EA15X239	2016
DSA26E	1114	DX-0075	1122	DX-2451	563	E14C350	1104	E1490R	1104	EA15X45CL	2016	EA15X240	2009
DSA150	1122	DX-0086	1122	DX-2556	1104	E20C30	1123	E1518R	1104	EA15X45P	2016	EA15X241	2016
DSB010	1122	DX-0087	1122	DX-2617	1104	E21	1104	E1533R	1104	EA15X48	2016	EA15X242	2020
DSB015	1122	DX0088TA	1104	DX6873	1123	E25C5	1104	E1544R	1104	EA15X49	2016	EA15X245	2016
DSB3N-1	1104	DX0089TA	1104	DY155131	1122	E30C60	1123	E1548R	1122	EA15X50	2016	EA15X248	2017
DSC910	1122	DX0090TA	1104	DY155133	1122	E-41	1104	E1645Z	563	EA15X51	2016	EA15X249	2009
DSD070	1122	DX-0091	562	DYDA203	1122 N3	E41	1104	E1660Z	565	EA15X52	1617	EA15X251	2009
DSF10A	1101	DX-0092	1104	DYDAN201VA	1122 N2	E101							

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EA15X258	2016	EA15X7178	2009	EA16X94	1122	EA1716	1617	EAD00-09200	561	ECG141A	563	ECG5013	561
EA15X259	2016	EA15X7179	2009	EA16X95	1122	EA1718	1617	EAD00-10100	565	ECG142	563	ECG5013A	561
EA15X264	2016	EA15X7215	2016	EA16X97	1123	EA1733	2016	EAD00-10400	565	ECG142A	563	ECG5017	562
EA15X267	2009	EA15X7228	2016	EA16X101	1122	EA1735	1617	EAD00-15100	564	ECG145	564	ECG5017A	562
EA15X272	1617	EA15X7231	2016	EA16X105	1122	EA1740	2041	EAD00-20200	561	ECG145A	564	ECG5018	562
EA15X288	2016	EA15X7232	1617	EA16X110	1122	EA1778	2009	EADT0-16700	561	ECG152	2020	ECG5018A	562
EA15X325	2009	EA15X7233	2058	EA16X122	1122	EA1793	2016	EAQ00-02000	1802	ECG153	2027	ECG5021	563
EA15X327	2020	EA15X7234	2058	EA16X124	564	EA1872	1617	EAQ00-11100	1723	ECG156	1114	ECG5021A	563
EA15X328	2027	EA15X7235	2058	EA16X126	565	EA1873	2030	EAQ00-11100		ECG159	2023	ECG5024	564
EA15X330	1617	EA15X7236	2058	EA16X134	1122	EA2131	2016	(,HA17555PS)	1723	ECG159MCP	2009&23	ECG5024A	564
EA15X331	1617	EA15X7242	2058	EA16X135	1122	EA2132	2016	EAQ00-30000	2520	ECG161	2016	ECG5069	565
EA15X333	2020	EA15X7243	2016	EA16X136	565	EA2137	1123	EAQ00-30200	2521	ECG164	2055	ECG5069A	565
EA15X334	2027	EA15X7244	2058	EA16X140	1123	EA2140	1104	EAS00-00700	1770	ECG165	2055	ECG5070	561
EA15X335	2009	EA15X7245	2016	EA16X144	565	EA2271	1617	EAS00-00700(,UPC7805)		ECG166	1171	ECG5070A	561
EA15X336	2016	EA15X7262	2009	EA16X146	1122	EA2429	2016		1770	ECG168	1173	ECG5073	562
EA15X350	2009	EA15X7263	2016	EA16X148	1123	EA2488	2017	EAS00-05800	1712	ECG177	1122	ECG5073A	562
EA15X351	2058	EA15X7264	2016	EA16X149	1144	EA2489	1617	EAS00-05800		ECG178MP	1122	ECG5304	1173
EA15X352	2016	EA15X7514	1617	EA16X150	562	EA2490	1617	(,TA75339P)	1712	ECG186	2017	ECG5400	1067
EA15X353	2009	EA15X7517	1617	EA16X152	1122	EA2493	2009	EAS00-06100	038	ECG196	2020	ECG5401	1067
EA15X354	2009	EA15X7583	2016	EA16X162	563	EA2494	2009	EAS00-09000	007	ECG199	2016	ECG5402	1067
EA15X355	2016	EA15X7586	1617	EA16X171	1122	EA2495	2009	EAW00-00700	2035	ECG219	2043	ECG5403	1067
EA15X360	2009	EA15X7587	2016	EA16X402	562	EA2496	2016	EAX5X249	2009	ECG223	2041	ECG5404	1067
EA15X361	2016	EA15X7588	2009	EA16X421	561	EA2499	1104	EB1(ELCOM)	1171	ECG229	2058	ECG5405	1020
EA15X364	2009	EA15X7589	2009	EA16X441	1123	EA2500	563	EB2(ELCOM)	1173	ECG233	2009	ECG5408	1067
EA15X365	2009	EA15X7590	1617	EA16X442	1122	EA2501	1104	EB3(ELCOM)	1171	ECG234	2023	ECG5409	1020
EA15X367	2009	EA15X7635	2030	EA16X446	1122	EA2502	1123	EB6(ELCOM)	1173	ECG238	2055	ECG5411	1067
EA15X370	1617	EA15X7638	1617	EA16X462	565	EA2600	2016	EB9(ELCOM)	1171	ECG241	2020	ECG5412	1067
EA15X371	2009	EA15X7643	1617	EA16X464	1114	EA2601	2016	EB11(ELCOM)	1173	ECG261	2068	ECG5413	1067
EA15X373	2009	EA15X7722	2016	EA16X474	564	EA2602	2016	EC080	1114	ECG280	2041	ECG5414	1067
EA15X374	2009	EA15X7732	2023	EA16X476	1173	EA2603	2016	EC100	1114	ECG281	2043	ECG5415	1020
EA15X376	2016	EA15X7737	2023	EA16X477	1122	EA2604	2016	EC103D	1020	ECG289	2009	ECG5421	1067
EA15X378	2009	EA15X8118	2027	EA16X504	1123	EA2605	2016	EC103Y	1067	ECG289A	2009	ECG5422	1067
EA15X379	2058	EA15X8119	2020	EA16X506	1104	EA2606	1123	EC106A1	1067	ECG290	2023	ECG5423	1067
EA15X385	2023	EA15X8124	2020	EA16X4532	2009	EA2607	1122	EC106A2	1067	ECG290A	2023	ECG5431	1067
EA15X386	2016	EA15X8126	2043	EA33X8389	705	EA2738	2016	EC106B1	1067	ECG291	2020	ECG5432	1067
EA15X393	2016	EA15X8130	2027	EA33X8396	705	EA2739	1617	EC106B2	1067	ECG312	2035	ECG5433	1067
EA15X395	2023	EA15X8502	1617	EA33X8468	1723	EA2740	2009	EC106D1	1020	ECG319	2009	ECG5452	1067
EA15X400	2035	EA15X8511	1617	EA33X8469	1740	EA2741	1104	EC106D2	1020	ECG319P	2009	ECG5453	1067
EA15X401	2035	EA15X8515	1617	EA33X8479	007	EA2770	1617	EC106F1	1067	ECG331	2020	ECG5454	1067
EA15X404	2009	EA-15X8517	2030	EA33X8548	1731	EA2770(N)	2009	EC106F2	1067	ECG340	2009	ECG5455	1067
EA15X408	2009	EA15X8518	2009	EA50X12	2020&27	EA2771	2016	EC106M2	1067	ECG377	2020	ECG5456	1020
EA15X413	2009	EA15X8519	2009	EA57X1	1104	EA2812	2016	EC106Y1	1067	ECG451	2062	ECG5457	1020
EA15X415	2016	EA15X8520	2009	EA57X3	1104	EA3127	1123	EC106Y2	1067	ECG457	2062	ECG5473	1020
EA15X421	2023	EA15X8523	2009	EA57X4	1104	EA3149	1617	EC107A1	1067	ECG507	1101	ECG5511	1067
EA15X437	2058	EA15X8525	2009	EA57X8	1104	EA3211	2016	EC107A2	1067	ECG519	1122	ECG5512	1020
EA15X441	2009	EA15X8529	1617	EA57X10	1104	EA3278	2035	EC107B1	1067	ECG524V13	568	ECG5600	1000
EA15X461	2016	EA15X8576	2009	EA57X11	1104	EA3406	2016	EC107B2	1067	ECG552	1104	ECG5601	1000
EA15X483	2058	EA15X8589	2016	EA57X14	1102	EA3447	1122	EC107D1	1020	ECG578	038	ECG5602	1000
EA15X488	2009	EA15X8601	2009	EA75X1	1104	EA3674	2017	EC107D2	1020	ECG778A	038	ECG5603	1000
EA15X524	2016	EA15X8602	2009	EA100	1114	EA3713	2058	EC107F1	1067	ECG823	1731	ECG5604	1000
EA15X525	2020	EA15X8608	2016	EA1072	1104	EA3714	2023	EC107F2	1067	ECG834	1712	ECG5605	1000
EA15X1014	2009	EA15X8609	2016	EA1080	1617	EA3715	2027	EC107M2	1067	ECG858M	1715	ECG5608	1000
EA15X1117	2009	EA15X8610	2016	EA1123	1123	EA3716	2020	EC107Y1	1067	ECG876	1705	ECG5629	1000
EA15X1422	2016	EA16X1	1123	EA1128	1617	EA3718	1123	EC107Y2	1067	ECG923D	1740	ECG5633	1000
EA15X1710	2020	EA16X2	1104	EA1129	1617	EA3719	563	EC401	1104	ECG941M	007	ECG5640	1000
EA15X2015	2016	EA16X4	563	EA1135	1617	EA3763	1617	EC402	1104	ECG955M	1723	ECG5641	1000
EA15X2024	2016	EA16X5	1123	EA1145	1617	EA3827	1104	ECG2V130	570	ECG956	1778	ECG5642	1000
EA15X2025	2016	EA16X6	563	EA1318	563	EA3866	562	ECG16	2016	ECG960	1770	ECG5650	1000
EA15X2110	2009	EA16X8	1104	EA1343	2016	EA3989	1104	ECG17	2023	ECG966	1771	ECG5651	1000
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EA15X3118	2027	EA16X11	1123	EA1345	1617	EA4055	2017	ECG85	2009	ECG978	1728	ECG5800	1141
EA15X4064	2016	EA16X13	1104	EA1405	1122	EA4085	2017	ECG107	2016	ECG987	1711	ECG5801	1143
EA15X4152	2016	EA16X16	563	EA1406	1617	EA4112	1617	ECG108	2016	ECG1155	705	ECG5802	1143
EA15X4335	2009	EA16X20	1122	EA1407	1617	EA5711	1104	ECG109	1123	ECG1232	703	ECG5803	1144
EA15X4532	1617	EA16X21	1104	EA1408	1617	AAA00-11300	2068	ECG110	1123	ECG3007	026	ECG5804	1144
EA15X4810	2009	EA16X22	1123	EA1448	1104	AAA00-11300(,25D837B)	1123	ECG110A	1123	ECG3012	033	ECG7400	1801
EA15X4812	2009	EA16X27	1123	EA1451	1617		2068	ECG110MP	1123	ECG3022	041	ECG7401	1801
EA15X5939	2009	EA16X29	563	EA1452	1617	AAA00-12800	2068	ECG114	1101	ECG3026	025	ECG7404	1802
EA15X7112	1617	EA16X30	1104	EA1499	1617	AAA00-13400	2009	ECG115	1101	ECG3030	036	ECG7408	1822
EA15X7113	2016	EA16X33	1104	EA1549	2030	AAA00-17400	2068	ECG116	1104	ECG3047	134	ECG7447	1805
EA15X7114	2016	EA16X34	1104	EA1562	2016	AAA00-17500	2009	ECG117A	1114	ECG3056	075	ECG7490	1808
EA15X7115	1617	EA16X39	1122	EA1563	2016	AAA00-17500		ECG120	1101	ECG3115	081	ECG75188	2520
EA15X7117	2016	EA16X48	1123	EA1564	1617	(,25C2458Y)	2009	ECG123	1617	ECG3131	030	ECG75189	2521
EA15X7118	1617	EA16X49	1122	EA1578	1617	EA800-06600	2023	ECG123A	1617	ECG4001	2401	ECR0510	1114
EA15X7119	1617	EA16X54	1104	EA1581	1617	EA800-07100	2023	ECG123AP	2009	ECG4001B	2401	ECR-600-2	1104
EA15X7120	1617	EA16X55	1104	EA1628	1617	EA800-09500	2023	ECG125	1114	ECG4011	2411	ECR600-2	1104
EA15X7121	2020	EA16X60	1122	EA1629	1617	EA800-09500(,25A950-	2023	ECG128	2030	ECG4011B	2411	ED0032	1122
EA15X7125	2016	EA16X61	1122	EA1630	1617	O)	2023	ECG130	2041	ECG4013	2413	ED0039	564
EA15X7136	2058	EA16X62	562	EA1638	1617	EAC00-00400	1122	ECG132	2035	ECG4013B	2413	ED0059	1104
EA15X7137	2023	EA16X71	1104	EA1661	1122	EAC00-00600	1102	ECG133	2035	ECG4017	2417	ED0067	1000
EA15X7140	2016	EA16X75	1122	EA1672	1104	EAC00-05400	1104	ECG135	565	ECG4017B	2417	ED0109E	561
EA15X7141	2016	EA16X77	563	EA1684	2030	EAC00-09300	1122 N2	ECG135A	565	ECG4049	2449	ED0120	1103
EA15X7173	2009	EA16X80	561	EA1695	1617	EACT0-00300	1122	ECG137	561	ECG4049B	2449	ED0173	1114
EA15X													

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ED-5	1104	ED3001A	1104	EG1	1103	EM2	1114	EP15X28	2055	EP84X119	1711	EQA02-14-AB	564
ED5	1104	ED3001B	1104	EG1A	1104	EM2A	1114	EP15X30	2020	EP84X217	1771	EQA02-15A	564
ED-6	1104	ED3002	1104	EG1Y	1104	EM2B	1114	EP15X31	1020	EP84X242	2417	EQA02-15AB	564
ED6	1104	ED3002A	1104	EG100	1104	EM401	1104	EP15X33	2030	EP-100	2020	EQA02-15M	564
ED6(ELCOM)	1123	ED3002B	1104	EG100H	1104	EM402	1104	EP15X37	2016	EP200	1104	EQA03-05B	565
ED6.2EB	561	ED3003	1104	E-GZA5R1Z	565	EM403	1104	EP15X38	2016	EP-276	2020	EQA03-09A	562
ED7	1104	ED3003A	1104	EHT	1104	EM404	1104	EP15X39	2009	EP276	2020	EQA09R	562
ED8(ELCOM)	1114	ED3003B	1104	EH-1A	1104	EM405	1104	EP15X41	2058	EP400	1104	EQA0106T	561
ED9	1123	ED3003S	1104	EHTA	1104	EM406	1104	EP15X42	2058	EP-421	2027	EQA-0109S	562
ED9(ELCOM)	1123	ED3004	1104	EH-1Z	1104	EM407	1114	EP15X43	2020	EP-422	2020	EQA0205	565
ED10(ELCOM)	1123	ED3004A	1104	EHTZ	1104	EM408	1114	EP15X45	2055	EP600	1104	EQA0205A	565
ED11(ELCOM)	1123	ED3004B	1104	EH-1ZV	1104	EM409	1114	EP15X48	2023	EP-797	2020	EQA0205B	565
ED12(ELCOM)	1123	ED3005	1104	EH2C11	1104	EM410	1114	EP15X52	2023	EP800	1114	EQA0206C	561
ED29(ELCOM)	1114	ED3005A	1104	EH2C11/7 + 12/1	1104	EM500	1104	EP15X53	2023	EP-801	2020	EQA0209CD	562
ED31(ELCOM)	1122	ED3005B	1104	EICM-0060	705	EM501	1104	EP15X54	2009	EP-802	2027	EQA0212AB	563
ED32(ELCOM)	1122	ED3006	1104	EK03	1165	EM502	1104	EP15X55	2016	EP-943	2027	EQA0305B	565
ED46	1123	ED3006A	1104	EK-04	1102	EM503	1104	EP15X57	2023	EP-944	2020	EQA0309A	562
ED-60	1123	ED3006B	1104	EK04	1165	EM504	1104	EP15X57(.1473)	2023	EP1000	1114	EQA-9	562
ED60	1123	ED3007	1114	EK04LF	1165	EM505	1104	EP15X57(.2058)	2023	EP1259	1104	EQA-9	562
ED150Z	1617	ED3007A	1114	EK13	1165	EM506	1104	EP15X60	2023	EP1259-2	1104	EQB0-06V	561
ED592K	2058	ED3007B	1114	EK14	1165	EM507	1114	EP15X68	2020	EP-1428-2H	1104	EQB01	563
ED592M	2016	ED3008	1114	EL75	2058	EM508	1114	EP15X83	2009	EP1428-2H	1104	EQB01-05	565
ED-1402	1617	ED3008A	1114	EL131	2035	EM509	1114	EP15X85	2009	EP2798	1122	EQB01-055A	565
ED1402A	1617	ED3008B	1114	EL214	2030	EM510	1114	EP15X86	2009	EP-3053	2020	EQB01-06	561
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		ED3009B	1114	EL238	1617	EMS-72272	1122	EP15X89	2009	EP-5219-1	1101	EQB01-09	562
ED1402B	1617	ED3010	1114	EL403	2009	EN10	2009	EP15X90	2023	EP-5619-2/7628	1104	EQB01-09B	562
ED1402C	2009	ED3010A	1114	EL434	2016	EN30	2009	EP15X90(IC)	1770	EPR9	562	EQB01-12	563
ED1402D	2009	ED3010B	1114	EL627	2016	EN40	2009	EP15X92	2009	EPX2	2009	EQB01-12A	563
ED1402E	2009	ED219464	1123	EL642	2009	EN697	1617	EP15X93	2009	EPX15X17	2023	EQB01-12B	563
ED1502	2016	ED224548	1104	ELM107	2016	EN706	1617	EP15X95	2035	EPX59	1122	EQB01-12BV	563
ED1502A	2058	ED224550	1104	ELM108	2016	EN708	1617	EP15X97	2020	EPX68	564	EQB01-12M	563
ED1502B	2009	ED302379	1122	ELM109	1123	EN718A	2016	EP15X98	2058	EQ-09R	562	EQB01-12R	563
ED-1502C	2058	ED329128	1104	ELM110MP	1123	EN722	2023	EP15X99	2016	EQ1	2062	EQB01-12Z	563
ED1502C	2016	ED329130	1104	ELM114	1101	EN744	1617	EP15X101	2009	EQA01-01	562	EQB01-15	564
ED1502D	2009	ED491130	562	ELM116	1104	EN870	2030	EP15X102	2020	EQA01-05	565	EQB01-15Z	564
ED1502E	2016	ED494583	1104	ELM117	1104	EN914	1617	EP15X104	2058	EQA01-05R	565	EQB01-15ZB	564
ED1502F	2058	ED511097	1104	ELM120	1101	EN915	2009	EP15X106	1067	EQA01-05S	565	EQB01-90S	562
ED1502P	2058	ED514721	1122	ELM123	1617	EN916	2016	EP15X107	2023	EQA01-05T	565	EQC01-10	1114
ED1502R	2009	ED515790	1122	ELM123A	1617	EN918	2016	EP15X110	2009	EQA01-06S	561	EQC04-02	1114
ED1602C	2023	ED516420	1122	ELM125	1114	EN930	1617	EP15X124	2035	EQA01-06SD	561	EQD01-09	562
ED1602D	2023	ED536062	1122	ELM128	2030	EN956	1617	EP15X125	2016	EQA01-06T	561	EQF-3	2035
ED1602E	2023	ED560913	1122	ELM130	2041	EN1132	2023	EP15X126	2023	EQA01-06U	562	EQF-4	2035
ED1702K	2009	ED703876	1122	ELM135	565	EN1613	2030	EP15X128	2023	EQA01-09(R)	562	EQG01-12A	563
ED1702L	1617	ED703904	1102	ELM137	561	EN1711	2030	EP15X141	2058	EQA01-09R	562	EQG-12A	563
ED1702L/09-30506	2009	EDG-0001	1123	ELM139	562	EN2219	1617	EP15X142	2020	EQA01-09S	562	EQR-0016	2023
ED1702L/09-305068	1617	EDG-0003	1123	ELM142	563	EN2222	1617	EP15X143	2009	EQA01-09S1	562	EQR-0038	2023
		EDG-0006	1123	ELM152	2020	EN2369A	1617	EP15X225	2023	EQA01-067	561	EQS-0018	2009
ED1702M	2009	EDG-0014	1122	ELM156	1114	EN2484	2016	EP15X226	2009	EQA01-12	563	EQS-0061	2009
ED1704L	2009	EDG-1	1123	ELM159	2023	EN2894	2023	EP16X1	1122	EQA01-12R	563	EQS-0100	2009
ED1802-0	2023	EDG-3	1123	ELM161	2016	EN2894A	2023	EP16X3	1123	EQA01-12S	563	EQS-0102	2016
ED1802M	2023	EDJ-363	1104	ELM164	2055	EN2907	2023	EP16X4	1122	EQA01-12S1	563	EQS-0165	2009
ED1804	1104	EDS-0001	1122	ELM165	2055	EN3009	1617	EP16X5	564	EQA01-12Z	563	EQS-0192	2009
ED1892	1104	EDS-0002	1104	ELM166	1171	EN3011	1617	EP16X7	2030	EQA01-15	564	EQS-0195	2009
ED2106	1104	EDS-0004	1102	ELM168	1173	EN3013	1617	EP16X13	1104	EQA01-15R	564	EQS-0196	2009
ED2107	1104	EDS-0014	1122	ELM177	1122	EN3014	1617	EP16X15	1122	EQA01-15RL	564	EQS-0198	2058
ED2108	1104	EDS-0017	1104	ELM196	2020	EN3250	2023	EP16X20	1122	EQA01-15RLV	564	EQS-5	2009
ED2109	1104	EDS-0024	1104	ELM199	2016	EN3504	2023	EP16X21	1123	EQA02-05	565	EQS-9	2009
ED2110	1104	EDS-1	1122	ELM219	2043	EN3903	1617	EP16X22	1122	EQA02-05(C)	565	EQS-10	2016
ED2842	1104	EDS-4	1102	ELM229	2058	EN3904	1617	EP16X23	1122	EQA02-05(D)	565	EQS-11	2016
ED2843	1104	EDS-11	1104	ELM234	2023	EN3905	2023	EP16X25	565	EQA02-05-A	565	EQS-18	2009
ED2844	1104	EDS-17	1104	ELM281	2043	EN3906	2023	EP16X27	1122	EQA02-05-B	565	EQS-21	2016
ED2845	1104	E-DS18	1101	ELM519	1122	EN3962	2023	EP16X36	563	EQA02-05-D	565	EQS-22	2009
ED2846	1104	E-DS135D	1102	ELM5400	1067	EO704	1104	EP16X49	1122	EQA02-05A	565	EQS-61	2009
ED2847	1114	E-DS442	1122	ELM5404	1067	EP6X10	1122	EP16X50	1122	EQA02-05AB	565	EQS-62	2009
ED2848	1114	E-DS442-VG1	1122	ELM5809	1114	EP15X1	2009	EP16X51	1122	EQA02-05CD	565	EQS-64	2009
ED2849	1114	E-DS442VG1	1122	ELP4.7	565	EP15X2	2009	EP16X52	564	EQA02-05CDB	565	EQS-66	2017
ED2910	1114	E-DS442YG1	1122	ELP6.2	561	EP15X3	2016	EP16X53	1123	EQA02-05D	565	EQS-67	2017
ED2911	1114	EDZ-0045	562	ELP9.1	562	EP15X5	2030	EP16X59	1122	EQA02-05E	565	EQS-78	2016
ED2912	1114	EDZ-23	562	ELP12G	563	EP15X6	2009	EP16X66	1122	EQA02-05EF	565	EQS-100	2009
ED2913	1114	EE5A-4.7	565	ELP14	564	EP15X6(.25A937MRS)	2023	EP16X68	564	EQA02-05F	565	EQS131	2009
ED2914	1104	EE5A-5.1	565	ELP15	564			EP16X71	1102	EQA02-05M1	565	EQS-139	2016
ED2915	1104	EE5A-6.2	561	ELP115G	563	EP15X6(FNP)	2023	EP16X73	565	EQA02-06E	561	ER1	1104
ED2916	1104	EE5A-9.1	562	EM01	1104	EP15X7	1617	EP16X149	1104	EQA02-06EF	561	ER2	1104
ED2917	1104	EE5A-12G	563	EM01A	1114	EP15X8	2009	EP16X152	565	EQA02-06F	561	ER5(ELCOM)	1101
ED2918	1104	EE5A-15	564	EM01Z	1104	EP15X9	2009	EP16X153	561	EQA02-09-CD	562	ER11	1104
ED2919	1104	EE5A-11S	563	EM1	1104	EP15X10	1067	EP16X154	1104	EQA02-09A	562	ER12	1104
ED2920	1104	ECCG-1234	2009	EM1A	1114	EP15X11	1114	EP16X167	565	EQA02-09AB	562	ER15X8	1617
ED2921	1104	EF1(ELCOM)	2035	EM1B	1114	EP15X12	2055	EP25	2023	EQA02-09B	562	ER15X18	1617
ED2922	1114	EF2(ELCOM)	2035	EM1J2	1104	EP15X14	2020	EP57X1	1104	EQA02-09C	562	ER21	1104
ED2923	1114	EF3	2035	EM1Y	1102	EP15X15	2027	EP57X4	1104	EQA02-09CD	562	ER22	1104
ED2924	1114	EF100	1114	EM-1Z	1102	EP15X17	2023	EP57X10	1104	EQA02-09D	562	ER31	1104
ED30060	1104	EG01	1103	EM1Z	1102	EP15X20	2009	EP57X12	1104	EQA02-11C	563	ER41	1104
ED30060A	1104	EG01A	1104	EM1Z1	1104	EP15X22	2020	EP57X54	1104	EQA02-11CD	563	ER42	1104
ED30060B	1104	EG01Y	1104	EM-1ZS	1102	EP15X23	2027	EP84X13	1801	EQA02-11CDB	563	ER51	1104
ED30061	1104	EG01Z	1102	EM1ZV	1102	EP15X26	2023						

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ER173X3	1104	ERB 28-04D	1104	ERZ C20DK201U	560	ES1AK22	1123	ET13X12	1617	EU02A	1104
ER173X4	1104	ERB28-04D	1104	ES-1	1104	ES16X33	1114	ET13X14	1617	EU02Z	1104
ER181	1104	ERB28-04DV	1114	ES1	1104	ES16X38	1104	ET15X15	1617	EU-1	1104
ER182	1104	ERB28-06D	1104	ES1KX123	2030	ES16X40	1122	ET15X16	1617	EU1	1104
ER187	1114	ERB28-06DV	1104	ES-1V	1104	ES16X70	1123	ET15X18	2016	EU-1A	1104
ER101	1104	ERB29-02	1104	ES1V	1104	ES16X103	1123	ET15X19	2009	EU1A	1104
ER102D	1104	ERB29-04	1104	ES11	2016	ES20(ELCOM)	1617	ET15X20	2009	EU-1AV	1104
ER103D	1104	ERB35-02	1102	ES15	2016	ES22(ELCOM)	2030	ET15X21	2016	EU-1V	1104
ER103E	1104	ERB43	1104	ES15X1	1617	ES31(ELCOM)	2041	ET15X23	2009	EU-1Z	1104
ER104D	1104	ERB43-02	1104	ES15X2	2016	ES34(ELCOM)	2023	ET15X24	1617	EU1Z	1104
ER105D	1104	ERB43-04	1104	ES15X3	2016	ES36X103	1123	ET15X27	2009	EU-2	1104
ER106D	1104	ERB43-04G	1104	ES15X6	2016	ES46	1617	ET15X30	2016	EU2	1104
ER107D	1114	ERB40-04V	1104	ES15X7	1617	ES46(ELCOM)	1617	ET15X33	2023	EU2A	1104
ER108D	1114	ERB44-02	1104	ES15X9	2023	ES47X1	1104	ET15X38	2020	EU-2V	1104
ER181	1104	ERB44-04	1104	ES15X10	2016	ES47X4	1104	ET15X39	1617	EU2V	1104
ER182	1104	ERB44-04V	1104	ES15X11	1617	ES51	1104	ET15X41	1617	EU2Z	1104
ER183	1104	ERB44-06	1104	ES15X12	2020	ES51X65	2030	ET15X42	1617	EU2ZV	1104
ER184	1104	ERB44-10	1114	ES15X14	1617	ES53(ELCOM)	1617	ET15X45	1617	EU15X1	2016
ER185	1104	ERB47-02	1102	ES15X16	1617	ES54(ELCOM)	2016	ET15X54	2009	EU15X2	2016
ER186	1114	ERB81	1114	ES15X18	2016	ES56(ELCOM)	2030	ET16X1	1123	EU15X3	2016
ER187	1114	ERB1201	1114	ES15X19	2016	ES57(ELCOM)	2030	ET16X15	563	EU15X6	2016
ER201	1104	ERB1202	1114	ES15X20	1617	ES57X1	1104	ET16X19	1123	EU15X27	2030
ER300	046A	ERB4392	1104	ES15X22	2009	ES57X2	1104	ET16X20	1123	EU15X34	2030
ER301	1104	ERB4204	1104	ES15X23	1617	ES57X4	1104	ET16X21	1123	EU16X1	1123
ER308	1114	ERB4304G	1104	ES15X24	1617	ES57X5	1104	ET16X37	1123	EU16X2	1123
ER310	1114	ERB4304V	1104	ES15X30	2016	ES57X12	1122	ET15X13	1617	EU16X7	1104
ER381	1104	ERB4404V	1104	ES15X37	1617	ES62(ELCOM)	2030	ET15X25	1104	EU16X8	1101
ER401	1104	ERB4702	1102	ES15X42	1617	ES65(ELCOM)	2023	ET15X25	1104	EU16X11	1122
ER410	1104	ERC-01-02	1114	ES15X56	2016	ES69(ELCOM)	2041	ET15X-25	1104	EU16X19	1123
ER501	1104	ERC01-02	1114	ES15X57	2016	ES73(ELCOM)	2016	ET15X25	1104	EU16X20	1104
ER510	1104	ERC01-02F	1114	ES15X58	1617	ES81(ELCOM)	2020	ET15X29	1104	EU16X30	1104
ER601	1104	ERC01-02F12	1114	ES15X60	2016	ES81(ELCOM)	2027	ET15X25	1104	EU16X38	1101
ER601	1114	ERC01-02L	1114	ES15X62	1617	ES85(ELCOM)	1617	ET15X26	1101	EU16X40	1104
ER1001	1114	ERC01-02L-12	1114	ES15X64	1617	ES86(ELCOM)	2016	ET15X29	1104	EU-2	1104
ERA21-02	1102	ERC01-02L12	1114	ES15X65	2016	ES90	2042	ET15X30	1104	EUZ	1104
ERA21-04	1103	ERC01-04	1114	ES15X66	2016	ES95	2055	ET15X33	1104	EV15	564
ERA21-06	1104	ERC01-04F	1114	ES15X67	2009	ES95(ELCOM)	2055	ET15X35	1104	EVD-3	1122
ERA22-02	1102	ERC01-06	1114	ES15X68	1617	ES1627	1122	ET15X38	1104	EVMS11	1104
ERA22-04	1103	ERC01-10	1114	ES15X70	1617	ES3266	2016	ET200	1104	EVR5	561
ERA22-04V	1103	ERC04-02	1114	ES15X76	1617	ES10186	2016	ET400	1104	EVR5A	561
ERA22-06	1104	ERC04-02E3	1114	ES15X79	2016	ES10187	2009	ET600	1104	EVR5B	561
ERA22-09	1114	ERC04-02F	1114	ES15X80	2016	ES10188	2009	ET35035	2023	EVR6	561
ERAB1-004	1165	ERC04-04	1114	ES15X81	2016	ES10189	1123	ET234854	2009	EVR6A	561
ERAB1-004G	1165	ERC04-04C	1114	ES15X82	2016	ES10222	2009	ET238894	1617	EVR6B	561
ERAB2-004	1165	ERC04-04F	1114	ES15X83	1617	ES10223	2009	ET29218	2009	EVR9	562
ERAB4-009	1104	ERC04-06	1114	ES15X84	1617	ES10224	1123	ET350335	2023	EVR9A	562
ERA1501	1104	ERC04-10	1114	ES15X85	1617	ES10225	1123	ET368021	1617	EVR9B	562
ERA1502	1104	ERC05-06	1114	ES15X86	2020	ES10231	2016	ET379462	2016	EVR11	562
ERA2202	1104	ERC05-08V	1114	ES15X87	2016	ES10232	1617	ET398711	2016	EVR11A	563
ERA2204	1104	ERC05-10	1114	ES15X88	2016	ES10233	1104	ET398777	2016	EVR11B	563
ERA1004	1165	ERC0602	1114	ES15X90	2023	ES10234	563	ET412626	1617	EVR12	563
ERAB1004G	1165	ERC0602E3	1114	ES15X92	2035	ES15046	2016	ET491051	2035	EVR12A	563
ERB01-05	565	ERC0508	1114	ES15X93	2030	ES15047	2016	ET495371	2017	EVR12B	563
ERB01-10	1114	ERC0508V	1114	ES15X94	2055	ES15048	2009	ET517263	2016	EVR15	564
ERB-06B	1104	ERC0510	1114	ES15X96	2016	ES15049	2016	ET703844	2009	EVR15A	564
ERB11-01	1104	ERC0510V	1114	ES15X97	2016	ES15050	1617	ET703854	2009	EVR15B	564
ERB-12-01	1104	ERC12-08	1114	ES15X101	2023	ES15052	2016	ET703865	2023	EW15X6	2009
ERB12-01	1104	ERC16-06	1104	ES15X102	2016	ES15054	1123	ET703874	2009	EW15X26	2027
ERB12-01G	1104	ERC16-10	1114	ES15X104	2016	ES15056	1104	ET703875	2023	EW15X42	2009
ERB-12-01RK	1102	ERC24-04	1104	ES15X105	2016	ES15057	1122	ET703894	2020	EW15X44	2023
ERB12-01RK	1102	ERC24-06	1104	ES15X106	2009	ES15102	2016	ET704324	2016	EW15X55	2023
ERB12-01U4	1104	ERC24-06S	1104	ES15X107	2023	ES15226	2030	ETD-1N40	1123	EW15X57	2009
ERB12-01V	1104	ERC25-04	1104	ES15X119	2016	ES19227	2017	ETD152788	1122	EW15X58	2023
ERB-12-02	1112	ERC25-06	1104	ES15X120	2016	ES1-06	1173	ETD-10D1	1104	EW15X59	2027
ERB12-02	1114	ERC44-04	1104	ES15X121	2016	ES1-06	1173	ETD-10D2	1104	EW15X63	2009
ERB12-02RK	1104	ERC81-004	1114	ES15X122	2016	ESA10-98	1104	ETD-5046	1123	EW15X66	2009
ERB12-02V	1104	ERC510	1114	ES15X123	2016	ESA10-99	1104	ETDCDG21	1122	EW15X70	2009
ERB12-04	1114	ERC1208	1114	ES15X127	2009	ESA-10C	1104	ETD-RD9.1FB	562	EW15X78	2016
ERB12-04RK	1104	ERC4-06	1114	ES15X128	2023	ESA-10N	1104	ETD-SD46	1123	EW15X110	2009
ERB12-06	1114	ERD03-02	1114	ES16(ELCOM)	2041	ESK-1	1104	ETD-SG9150	1122	EW15X130	2016
ERB12-10	1114	ERD03-04	1144	ES16X2	1123	ESK1	1104	ETD-SG9150	1122	EW15X135	2023
ERB12-11	1104	ERD100	1104	ES16X3	1123	ESK1/02	1104	ETI-23	705	EW15X135(2SA937M)	2009
ERB22-15	1104	ERD200	1104	ES16X4	1122	ESK1/06	1104	ETI-003	2041	EW15X135(2SA937M)	2023
ERB24-02D	1104	ERD300	1104	ES16X5	1123	ESK1/02	1104	ETI-003	2041	EW15X135(2SA937M)	2023
ERB24-04	1104	ERD400	1104	ES16X6	1122	ESK1/06	1104	ETI-003	2041	EW15X135(2SA937M)	2023
ERB-24-04C	1104	ERD500	1104	ES16X7	1123	ESM582	1122	ETTC-458LG	1617	EW15X144	2023
ERB24-04C	1104	ERD600	1104	ES16X8	563	ESZ5.1	565	ETTC-930D	2016	EW15X148	2023
ERB24-04CV	1104	ERD700	1114	ES16X9	1104	ESZ6.2	561	ETTC-945	2009	EW15X148(2SA950(Y))	2023
ERB24-04D	1104	ERD800	1114	ES16X12	1123	ESZ9.1	562	ETTC-CD8000	1617	EW15X260	2023
ERB24-06	1104	ERD900	1114	ES16X13	1104	ESZ12	563	ETTC-CD12000	1617	EW15X276	2023
ERB24-06A	1104	ERD1000	1114	ES16X14	1123	ET15X2	2016	ETTC-CD13000	1617	EW15X278	2020
ERB24-06B	1104	ERD2904	1104	ES16X21	1123	ET15X3	2016	ETTC-CD12000	1617	EW15X154	2009
ERB24-06C	1104	ES100	2030	ES16X24	1122	ET15X7	2016	ETTC-CD12000	1617	EW15X154(2SC2206C)	2023
ERB28-02	1104	ERV-02F2150	1104	ES16X25	1104	ET15X9	2016	ETD-23F	2020	EW15X286	2016
ERB28-04	1104	ERZ-C14DK201	570	ES16X27	1122	ET15X9	2016	ETK18	2009	EW15X315	2016
ERB28-04B	1104	ERZ-C14DK201U	570	ES16X27(MA150)	1122	ET15X10	2009	EU01	1104	EW15X154(2SC2206B)	2023
ERB28-04C	1104	ERZ-C20DK201	568	ES16X30	1122	ET15X11	2009	EU01A	1104	EW15X158	2009
ERB28-04C	1104	ERZ-C20DK201	568	ES16X30	1122	ET15X12	2009	EU01Z	1104	EW15X158	2009

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EW15X316(.25D637(Q))	2016	EW15X597	2009	EW16X485(.55295G)	1104	EX695-X	2009	F114E	1104	F7316	2009	FC59012G	2023
EW15X316(.25D637(R))	2016	EW15X598	2016	EW16X486	1103	EX744-X	2030	F115	2041	F-7404PC	1802	FC59012H	2023
EW15X316(.25D637(S))	2016	EW15X619	2020	EW16X487	563	EX746-X	2023	F116	2041	F9014D	2009	FC59012HE	2023
EW15X316(.25D637(S1))	2016	EW16X12	1104	EW16X490	1122	EX748-X	2009	F117	2055	F9600	1617	FC59012HG	2023
EW15X316(.25D637(QRS))	2016	EW16X22	1104	EW16X526	1122	EX888-X	2009	F117A	2055	F9623	1617	FC59013	2009
EW15X316(.25D637(RS))	2016	EW16X39	561	EW16X530	1103	EXV420DIR5JB	1123	F118	2055	F9623(G.E.)	2016	FC5-9013F	2009
EW15X317	2030	EW16X59	1102	EW16X533	565	EYV-420D1R5JA	1104	F118A	2055	F9623F	2009	FC59013F	2009
EW15X317(.25D638(Q))	2030	EW16X76	1122 N2	EW16X535	563	EYV420D1R5JB	1123	F119	2055	F9625	2016	FC59013F,G	1617
EW15X317(.25D638(R))	2030	EW16X92	1165	EW16X540	1114	EYV420DIR5JB	1123	F119A	2055	F10124	1104	FC59013FG	1617
EW15X317(.25D638(S))	2030	EW16X92(.ERA81-004)	1165	EW16X541	1104	EYZP623	2023	F120	2055	F10148	1104	FC5-9013G	2009
EW15X317(.25D638(QRS))	2030	EW16X98	1104	EW16X542	1104	EYZP632	2009	F120A	2055	F10180	1104	FC59013G	2009
EW15X317(.25D638(RS))	2030	EW16X98(.EM1ZV)	1102	EW16X544	1104	EYZP791	2009	F121-546	2009	F-12227	1104	FC59013H	2009
EW15X317(.25D639(S))	2030	EW16X102	1122	EW16X545	1173	EYZP808	2023	F121-433804	1617	F-12737	2020	FC59013HG	2009
EW15X317(.25D639(S1))	2030	EW16X102(.15S119)	1122	EW16X548	1122	EZ01	1104	F136	1123	F-13316	2020	FC59013HH	2009
EW15X317(.25D638(QRS))	2030	EW16X105	1122	EW16X551	565	EZ01Z	1104	F209	2023	F-13317	2020	FC59014	2009
EW15X317(.25D638(RS))	2030	EW16X110	1122	EW16X554	1102	EZ091	562	F215-1001	2016	F-14168	1122	FC59014(B)	2009
EW15X317(.25D639(S))	2030	EW16X111	1122	EW16X559	1104	EZ5(ELCOM)	565	F215-1002	2016	F-14959	1122	FC59014B	2009
EW15X320	2020	EW16X121	1104	EW16X560	1104	EZ9(ELCOM)	562	F215-1003	2016	F-15023	1122	FC59014C	2016
EW15X320(.25D1266(P))	2020	EW16X124	561	EW16X561	564	EZ12(ELCOM)	563	F215-1004	2016	F-15024	1122	FC59014D	2016
EW15X320(.25D1266(Q))	2020	EW16X130	1104	EW16X563	1114	EZ12A	563	F215-1005	2016	F-15024	1122	FC59014E	2016
EW15X320(.25D1266(QR))	2020	EW16X167	565	EW16X564	565	EZ15(ELCOM)	564	F215-1010	1123	F-15810	2016	FC59015B	2023
EW15X320(.25D1266(QRS))	2020	EW16X169	1122	EW16X567	563	EZ15A	564	F215-1012	1123	F15835	2016	FC59015C	2023
EW15X320(.25D1266(QRS))	2020	EW16X175	1104	EW16X583	1122	EZ15A	564	F215-1012	1123	F15840	1617	FC59015D	2023
EW15X320(.25D1266(PQR))	2020	EW16X193	1122	EW16X588	1122	EZ150	564	F215-1013	1123	F15840-1	1617	FC59016	2016
EW15X328	2020	EW16X194	1123	EW16X598	561	F0015	2035	F215-1014	1123	F15841	2016	FC59016D	2016
EW15X329	2023	EW16X196	1104	EW16X600	1104	F0021	2035	F215-1016	1104	F-16147	1122	FC59016E	2016
EW15X329(.25B642QR)	2023	EW16X200	1104	EW16X605	1104	F-05	1104	F215-1017	1104	F20303	1123	FC5-9016F	2009
EW15X329(.25B642QR)	2023	EW16X202	1114	EW16X605(.EU2ZV)	1104	F05	1104	F222	1617	F21490	2023	FC59016F	2009
EW15X342	2016	EW16X205	562	EW16X607	562	F031	1122	F266A	1020	F27002	1104	FC5-9016G	2009
EW15X342(.25C2021M)	2016	EW16X209	1114 N6	EW16X611	565	F031	1122	F302-1	2009	F50116	2016	FC59016G	2016
EW15X342(.25C2021M)	2016	EW16X218	1123	EW16X612	1104	F046	1122	F302-1	2009	F69916	2030	FC59016H	2016
EW15X342(.25C2021M)	2016	EW16X221	1104	EW16X615	562	F060	1122	F302-1	1617	F75116	1617	FC59016H	2016
EW15X342(.25C2021M)	2016	EW16X223	565	EW16X620	1104	F084	1122	F302-2	1617	FA-1	2009	FC59018D	2016
EW15X342(.25C2021M)	2016	EW16X226	1122	EW16X620(.ES1V)	1104	F1	2009	F302-1532	2009	FA-4	1123	FC59018E	2016
EW15X342(.25C2021M)	2016	EW16X227	1122	EW16X622	1114	F1-02	1104	F302-2532	2009	FA4	1104	FC5-9018F	1617
EW15X342(.25C2021M)	2016	EW16X231	1122 N2	EW16X622	1114	F1-04	1104	F302-2582	1617	FA6	1104	FC59018F	2016
EW15X342(.25C2021M)	2016	EW16X232	1122 N1	EW16X658	1114	F1-06	1104	F306-001	1617	FA8	1114	FC59018G	2016
EW15X342(.25C2021M)	2016	EW16X234	561	EW41X98	041	F1-08	1104	F306-022	1617	FA111	1122	FC59018H	2016
EW15X346	2020	EW16X248	565	EW57X1	1104	F2	1104	F336GD	030	FA2310E	1122	FC59066	2016
EW15X360	2016	EW16X255	565	EW57X1(.1N4002)	1104	F3	1104	F336HD	036	FA2310U	1122	FD3	1104
EW15X360(.25D637RST)	2016	EW16X257	1122	EW57X2	1102	F4	1104	F366	1617	FA2320E	1122	FD6	1104
EW15X360(.25D637RST)	2016	EW16X292	1122	EW84X30	2417	F5	1104	F501	2016	FA2320U	1122	FD63	1114
EW15X374	2023	EW16X296	565	EW84X156	1712	F6	1104	F501(ZENITH)	2016	FA2330E	1122	FD100	1122
EW15X375	2023	EW16X301	564	EW84X156(.UPC339C)	1712	F8	1114	F501-16	2016	FA2330U	1122	FD103	1114
EW15X393	2023	EW16X303	1122	EW84X174	1712	F10	1114	F502	2016	FA8005	563	FD111	1122
EW15X406	2020	EW16X305	1122	EW84X172	088	F14	1104	F502(ZENITH)	2016	FA8006	563	FD200	1122
EW15X406(.25D1266LBPQ)	2020	EW16X316	1104	EW84X192	1712	F14-C	1104	F523	2016	FA8007	563	FD222	1122
EW15X428	2016	EW16X306(.TVSB1202)	1102	EW84X453	1770	F-14A	1104	F531	1617	FA8008	563	FD300	1102
EW15X450	2009	EW16X307	1122	EW84X483	038	F14A	1104	F549-1	2023	FA8009	564	FD333	1122
EW15X457	2023	EW16X308	1104	EW84X488	038	F14AP	1104	F572-1	1617	FA8010	564	FD400	1102
EW15X487	2023	EW16X309	1104	EW84X526	1772	F14B	1114	F587	1617	FA8011	564	FD600	1122
EW15X487(.25A1115-EF)	2023	EW16X311	1123	EW84X747	1771	F14BP	1104	FA8012	2030	FA8012	564	FD777	1122
EW15X487(.25A1115-F)	2023	EW16X312	1104	EW84X785	007	F-14C	1104	FB-200	2023	FB-200	1173	FD-1029-4	2023
EW15X551	2009	EW16X313	1114	EW162	2016	F14C	1114	FB200	2035	FB200	1173	FD-1029-4B	2023
EW15X572	2009	EW16X314	1122 N3	EW163	2016	F14CP	1104	FB1043	2035	FB1043	1123	FD-1073-BF	1801
EW15X572	2009	EW16X325	1122	EW164	2016	F14D	1114	FB6853	2016	FB6853	1617	FD-1073-BJ	1802
EW15X549	2016	EW16X326	1104	EW165	2016	F14DP	1104	FBTX070	1617	FBTX070	2030	FD-1073-BM	1822
EW15X549(.25C3112AB)	2016	EW16X330	563	EW165V	1617	F14E	1114	FC91	1617	FC91	1122	FD1559	1144
EW15X566	2009	EW16X332	1104	EW166	1123	F14F	1114	FC5006	2016	FC5006	2016	FD1599	1104
EW15X572	2023	EW16X334	1173	EW167	1123	F14H	1114	FCD0003PC	1617	FCD0003PC	1122	FD1708	1122
EW15X576	2009	EW16X336	1122	EW168	1123	F14J	1114	FCD0014NCS	2016	FCD0014NCS	1122	FD1843	1122
EW15X576(.25C2724E)	2009	EW16X337	1104	EW169	1114	F16H1	561	FC5916F	2016	FC5916F	2058	FD1980	1123
EW15X577	2009	EW16X338	1114	EW169B	1104	F20-100	2016	FC51168E	2016	FC51168E	2016	FD3389	1104
EW15X585	2009	EW16X343	565	EW181	1617	F20-100Z	2016	FC51168E641	1617	FC51168E641	2016	FD3405	1101
EW15X577	2009	EW16X352	1104	EW182	1617	F20-1003	2016	FC51168F813	1617	FC51168F813	1617	FD6451	1122
EW15X578	2023	EW16X354	1104	EW183	2027	F20-1004	2016	FC51168G	1617	FC51168G	1617	FD4489	1122
EW15X581	2009	EW16X358	1123	EW212	2016	F20-1005	2016	FC51168G704	2016	FC51168G704	1617	FDH-9	1122
EW15X582	2009	EW16X363	1104	EWQ202	2023	F20-1010	1123	FC51170F	2023	FC51170F	2023	FDH300	1102
EW15X582(.25C2724-D)	2009	EW16X365	1122 N3	EX0011GE	564	F20-1012	1123	FC51225E	2030	FC51225E	2016	FDH333	1102
EW15X583	2009	EW16X370	563	EX0020GE	565	F20-1013	1123	FC51227E	2030	FC51227E	2016	FDH400	1102
EW15X585	2009	EW16X371	1122 N2	EX0038CE	563	F20-1014	1123	FC51227E814	2030	FC51227E814	2016	FDH444	1122
EW15X585(.25C2603-F)	2009	EW16X376	562	EX0047CE	563	F20-1015	1104	FC51227F	1617	FC51227F	1617	FDH666	1122
EW15X580	2016	EW16X405	563	EX0048CE	561	F20-1016	1104	FC51227F743	2023	FC51227F743	2016	FDH694	1122
EW15X591	2009												

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FE100A	2035	FR062	1104	FSP242-1	2016	FWB3004	1173	G05-036-B	2009	G7G	1123	GC5012	1123
FE-102	2035	FR063	1104	FSP-270-1	2016	FWL30	1171	G05-036-C	2009	G75E211	2043	GD1E	1123
FE102	2035	FR064	1104	FSP-288-1	1104	FWL100	1104	G05-036-C,D,E	1617	G8	1114	GD1P	1123
FE-102A	2035	FR065	1104	FSP-289-1	2016	FWL200	1104	G05-036-D	2009	G9 1T5	562	GD1Q	1123
FE102A	2035	FR-1	1104	FST2	1104	FWL300	1104	G05-036-E	2009	G9.1T10	562	GD2E	1123
FE-104A	2035	FR1	1104	FST3	1104	FWL400	1173	G05-036B	2009	G9.1T20	562	GD4E	1123
FE104A	2035	FR1-54A	1104	FT001	2030	FWLA50	1171	G05-036C	2009	G10	1114	GD5E	1123
FE-400	2035	FR1D	1122	FT002	2030	FWLA100	1171	G05-036D	1617	G12T5	563	GD6E	1123
FE400	2035	FR-1H	1104	FT003	2030	FWLA300	1173	G05-036E	1617	G12T10	563	GD8E	1123
FE402	2035	FR1H	1104	FT004	2030	FWLA400	1173	G05-037-A	2058	G12T20	563	GD10	1123
FE-402A	2035	FR-1H(M)	1104	FT004A	2030	FWLC300	1173	G05-037-B	2009	G15T5	563	GD11E	1123
FE402A	2035	FR-1HM	1104	FT005	1617	FWLC400	1173	G05-037-D	2009	G15T10	564	GD12	1104
FE-404A	2035	FR-1M	1104	FT006	1617	FX709	2016	G05-037B	1617	G15T20	564	GD12E	1123
FE404A	2035	FR1M	1104	FT008	1617	FX914	2058	G05-050-C	2016	G95G	1104	GD13E	1123
FE4302	2062	FR1MB	1104	FT008A	1617	FX916	2058	G05-055-C	2009	G100A	1104	GD-25	1123
FES245	2035	FR-1MD	1104	FT0019H	2030	FX2368	2009	G05-055-D	2009	G100B	1104	GD25	1123
FF400	2035	FR1MD	1104	FT0019M	2023	FX2369A	2058	G05-055-E	2009	G100D	1104	GD-26	1123
FG-2N	1114	FR-1N	1104	FT023	1617	FX2894	2023	G05-063-R	2058	G100G	1104	GD-29	1123
FG-2NA	1104	FR-1P	1104	FT024	1617	FX3013	2058	G05-064-A	2009	G100J	1104	GD-30	1123
FI1023	2016	FR1P	1104	FT025	1617	FX3014	2058	G05-065-A	2016	G100K	1114	GD72E/3	1123
FIP100D	1144	FR-1U	1104	FT026	1617	FX3300	2009	G05-066A	2009	G100M	1114	GD72E/4	1123
FJN131	1801	FR1U	1104	FT027	2030	FX3964	2023	G05-413A	2009	G130	1104	GD72E/5	1123
FJH231	1801	FR-2	1104	FT052	2023	FX4046	2009	G05-413B	2009	G154	1123	GD72E3	1123
FJH241	1802	FR2	1104	FT053	1617	FZ5.1T5	565	G05-413C	2009	G155	1123	GD72E4	1123
FJH311	1801	FR2-02	1104	FT.1	1104	FZ5.1T10	565	G05-413D	2009	G156	1123	GD72E5	1123
FJJ141	1808	FR2-02(DIO)	1104	FT1	1122	FZ6.2T10	561	G05-706-D	2009	G157	1123	GD73E/3	1123
FJT1100	1122	FR2-02C	1104	FT-1N	1104	FZ6.5T10	561	G05-706-E	2009	G158	1123	GD73E/4	1123
FJT1101	1101	FR2-06	1114	FT1N	1104	FZ12A	563	G06-711-B	2017	G159	1123	GD73E/5	1123
FJT1118	1101	FR2-020	1104	FT-10	1104	FZ12T5	563	G08-005L	2035	G198	1123	GD73E3	1123
FJT1134	1101	FR2-0Z	1104	FT10	1114	FZ12T10	563	G08-007-B	2035	G199	1123	GD73E4	1123
FK114	2016	FR-2M	1104	FT14A	1104	FZ15A	564	G08D	1114	G200	1123	GD73E5	1123
FK118	2016	FR2M	1104	FT19H	2023	FZ15T5	564	G01036	562	G222	1104	GD74E/3	1123
FK2349A	2016	FR2P	1104	FT19M	2023	FZ15T10	564	G01209	1122	G296	1104	GD74E/4	1123
FK2454	2016	FR2PC	1144	FT34G	2035	FZ101	2009	G01211	1104	G297	1123	GD74E/5	1123
FK3014	2016	FR10	1104	FT34Y	2035	FZ901	565	G01803	1122	G409	1123	GD74E3	1123
FK3299	2016	FR101	1104	FT40	2009	FZ1215	563	G03007	2023	G498	1123	GD74E4	1123
FK3300	2016	FR102	1104	FT45	2016	G00004A	1123	G05015	1617	G580	1123	GD74E5	1123
FK3484	2009	FR103	1104	FT107B	2016	G00008A	1123	G05015D	1617	G657	1104	GD107A	1123
FK3494	2009	FR104	1104	FT118	2016	G00-003-A	1123	G05015E	1617	G659	1104	GD400	1123
FLH101	1801	FR105	1104	FT340	2017	G00-004-A	1123	G05035	1617	G700	1104	GD401	1123
FLH201	1801	FR-202	1104	FT402	2055	G00-008-A	1123	G05036	1617	G701	1104	GD402	1123
FLH311	1802	FR12-01MK	1102	FT405	2016	G00-009-A	1123	G05059	1617	G702	1104	GD403	1123
FLH381	1822	FRH-101	1104	FT115	2016	G00-012-A	1122	G05705	2020	G704	1123	GD404	1123
FLJ161	1808	FR-1	1104	FT124B	2016	G00-012A	1122	G0Q-535-B	1104	G766	1123	GD405	1123
FLJ171T	1805	FS19	1123	FT124C	2016	G00-012-B	1123	G1	1104	G788	1123	GD406	1123
FLJ121V	1805	FS-1133	2009	FT1341	2023	G00-014-A	1122	G1A	1103	G789	1123	GD407	1123
FM11J2	1104	FS1168E641	2009	FT1746	2023	G00-502-A	1104	G1B	1104	G790	1123	GD408	1123
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FM708	2016	FS1221	1617	FT3567	2009	G00-534-A	1104	G1G	1103	G815	1123	GD411	1123
FM709	2016	FS1308	2016	FT3568	2009	G00-535-B	1104	G1HA	1123	G816	1123	GD-510	1122
FM720A	2016	FS1317	2050	FT3569	2009	G00-535A	1104	G1K	1114	G820	1123	GD510	1123
FM870	2016	FS1682	2016	FT3630	2023	G00-536-A	1104	G1M	1114	G821	1123	GD663	1123
FM871	2016	FS1774	1617	FT3643	1617	G00-536A	1104	G2	1104	G822	1123	GD1001	1123
FM910	2016	FS2003-1	2041	FT4354	2023	G00-543-A	1104	G2A	1104	G823	1123	GD3638	1122
FM911	2016	FS2043	2005	FT4355	2023	G00-551-A	1104	G2B	1114	G824	1123	GE-1N506	1104
FM914	2016	FS3266	2016	FT5040	2023	G00-803-A	1122	G2D	1114	G825	1123	GE-6GX1	1101
FM1613	2016	FS3683	2016	FT5041	2023	G00502A	1104	G2G	1114	G844	1123	GE-6.2	561
FM1711	2016	FS-7812	1771	FT129	2058	G00515A	1617	G2J	1114	G845	1123	GE6.2A	561
FM2242	1617	FS7812	1771	FU1M	1104	G00535	1104	G2K	1114	G846	1123	GE6.2B	561
FM2368	2016	FS24226	2023	FU-1MA	1104	G01	1104	G2M	1114	G847	1123	GE-10	2009
FM2369	2016	FS24954	2023	FU-1N	1104	G01-036-G	562	G3	1104	G868	1123	GE-10A	2016
FM2846	2016	FS27233	2030	FU1N	1104	G01-036-H	562	G3A	1141	G869	1123	GE-11	2016
FM3014	2016	FS27604	2009	FU-1NA	1104	G01-036A	561	G3B	1143	G-1010	1123	GE-14	2041
FMP5-A20	2009	FS32669	2016	FU1NA	1104	G01-037-A	563	G3D	1143	G1010	1123	GE-17	2009
FMP5A20	2009	FS33529	2016	FU1U	1104	G01-082-A	1122	G3G	1144	G1010A	1122	GE-18	2030
FN-51-1A	2009	FS326690	2016	FU-1M	1104	G01-209-B	1122	G4	1104	G1149	1104	GE-19	2041
FOS	1104	FSA1169	1101	FUIU	1104	G01-209B	1122	G4A	1114	G1179	1104	GE-20	1617
FOR1A411E	1067	FS1202	1101	FV-22	561	G01-803-A	1122	G4B	1143	G1242	1104	GE-22	2023
FOR1B	1067	F5C9015D	2023	FV-23	1123	G01-803A	1122	G4D	1143	G1288	1123	GE-26	2027
FOR2D	1067	F5E1003	2016	FV23	1123	G02	1144	G4G	1144	G1501	1102	GE-28	2017
FOS100	2016	F5E3001	2016	FV-24	561	G03-017-B	2023	G4 7T3	565	G9423	2058	GE-37	2055
FOS101	2016	F5E5002	2016	FV24	1122	G03-407-Y	2023	G4.7T10	565	G9600	1617	GE-38	2055
FOS104	2009	F5P-1	2016	FV914	2016	G04-041B	2016	G4.7T20	565	G9600(G.E.)	1617	GE-39	2016
FP30801	2016	F5P1	2016	FV918	2016	G05-003-A	2009	G5	1104	G9623	1617	GE42-7	1104
FPN2907	2016	F5P-42	2016	FV2369A	2016	G05-003-B	2009	G3C	1123	G9625	2058	GE-60	2016
FPN3563	2016	F5P-42-1	2016	FV2484	2016	G05-004A	2016	G5F	1123	G9696	1617	GE-61	2058
FPR40-1001	1617	F5P42-1	2016	FV3014	2016	G05-010-A	1617	G5K	1123	G10119	1104	GE-62	2016
FPR40-1003	2016	F5P-164	2016	FV3299	2016	G05-011-A	1617	G5.1T5	565	G13638	2023	GE-65	2023
FPR40-1006	1123	F5P164	2016	FV3300	2016	G05-012-G	2016	G5.1T10	565	GARE	561	GE-66	2020
FPR50-1001	1617	F5P-165	2016	FW50	1171	G05-015-D	1617	G5.1T20	565	G808D	1102	GE-66A	2020
FPR50-1002	1617	F5P165	2016	FW100	1184	G05-015C	1617	G6	1104	GB-1	1123	GE-69A	2027
FPR50-1003	2016	F5P-166	2016	FW300	1173	G05-034-D	1617	G6.2T5	561	G81	1122	GE-77	2041
FPR50-1004	2016	F5P166	2016	FW400	1104	G05-035-D	1617	G6.2T10	561	G853410F	2035	GE-81	1617
FPZ6V2	361	F5P-166-1	2016	FW500	1104	G05-035-D, E	2016	G6.2T20	561	GC783	1617	GE-82	2023
FPZ9V1	562	F5P166-1	2016	FW600	1104	G05-035-E	2016	G7D	1123	GC784	1617	GE-85	2016
FPZ12	563	F5P-215	2016	FW600A	1104	G05-035D	2016	G7E	1123	GC1144	1617	GE-86	2016
FR061	1104	F5P-242-1	2016	FWB3003	1172	G05-035E	1617	G7F	1123	GC1615-1	2030	GE-123	1617

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
GE-123AP	2009	GE4004	1114	GE56002J	2009	GI-2923	2016	GM-1Z	1114	GP10J	1104	GS9014H	2009
GE-129	2016	GE4005	1114	GE7706	1617	GI2923	1617	GM-3	1114	GP10K	1114	GS9014J	2009
GE-129	2016	GE4006	1114	GE7708	1617	GI-2924	2016	GM3	1114	GP10M	1114	GS9014J	2009
GE-130	1104	GE4007	1114	GE7914	1617	GI2924	1617	GM-3A	1114	GP15	1114	GS9014K	2009
GE-166	1171	GES92	2009	GE7924	2030	GI-2925	2016	GM-3B	1114	GP15A	1114	GS9015-H	2023
GE-168	1173	GES93	2023	GE7930	2030	GI-2926	2009	GM3B	1114	GP15B	1114	GS9015-I	2023
GE-178MP	1122	GES97	2009	GE72221	1617	GI3002	1104	GM-3Y	1114	GP15BL	1114	GS9015-J	2023
GE-210	2009	GES929	2009	GE72221A	2009	GI-3008	1104	GM3Y	1114	GP15D	1114	GS9015H	2023
GE-211	2009	GES930	2009	GE72222	1617	GI-3391	2016	GM-3Z	1114	GP15G	1114	GS9015I	2023
GE-212	2009	GES2221	2009	GE72222A	2009	GI-3391A	2016	GM3Z	1114	GP15J	1114	GS9015J	2023
GE-213	2009	GES2221A	2009	GE72369	1617	GI-3392	2016	GM308	2016	GP15K	1114	GS9018-G	2009
GE-237	2055	GES2222	2009	GE72483	2016	GI-3393	2016	GM760	2023	GP15M	1114	GS9018-H	2009
GE-241	2020	GES2222A	2009	GE73013	1617	GI-3394	2016	GM-770	2016	GP20A	1114	GS9018-I	2009
GE-243	2030	GES2483	2009	GE73014	1617	GI-3395	2016	GM770	2016	GP20B	1114	GS9018F	1617
GE-259	2055	GES2906	2023	GE73562	2016	GI-3396	2016	GMA-01	1122	GP20D	1114	GS9018G	2009
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GE-263	2043	GES2923	2009	GE73638	2023	GI-3398	2016	GMA-01-BT	1122	GP20J	1114	GS9022-H	2009
GE-268	2009	GES2924	2009	GE73638A	2023	GI-3403	2009	GMA01-BT	1122	GP20K	1114	GS9022F	2023
GE-269	2023	GES2925	2009	GE73646	1617	GI-3405	2009	GMA01-L	1122	GP20M	1114	GS9023	2009
GE-283	2009	GES2926	2009	GE73903	2009	GI-3415	2009	GMA-10-BT	1122	GP25A	1141	GS9023(H)	2009
GE-289A	2009	GES3053	2009	GE73904	2009	GI-3416	2009	GMB01	1122	GP-25B	1164	GS9023-I	2009
GE-300	1122	GES3392	2009	GEVR-101	1770	GI-3417	2009	GMB01L	1122	GP25B	1143	GS9023-G	2009
GE-302	2020	GES3393	2009	GEVR-102	1770	GI-3605	2016	GME040-1	2023	GP25D	1143	GS9023-H	2009
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GE-327	2058	GES3396	2009	GEVR-111	1771	GI-3607	2016	GME1002	1617	GP30A	1141	GS9023J	2009
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GE-345	2068	GES3414	2009	GE-X16A1938	1617	GI3638A	2023	GME2002	1617	GP30B	1143	GS9023I	2009
GE-414	1122	GES3415	2009	GE-X18	2017	GI-3641	2009	GME3001	2016	GP30D	1143	GS9023J	2009
GE-504	1104	GES3416	2009	GE-X36	1104	GI3641	1617	GME3002	2016	GP30G	1144	GS9023K	1617
GE-504A	1104	GES3417	2009	GE-X36	1104	GI-3642	2009	GME4001	1617	GP230	1104	GS9024(J)	2009
GE-505	1114	GES3565	2009	GE-X66	1123	GI-3643	2009	GME4002	1617	GP250	1104	GS9024(K)	2009
GE-509	1114	GES3566	2009	GE-X66	1104	GI3643	1617	GME4003	1617	GP252	1114	GS9024-L	2009
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GE-510	1114	GES4122	2023	GEZD-5.0	565	GI3702	2023	GME6902	2016	GP330	1122	GS9025H	2009
GE-512	1114	GES4248	2023	GEZD-5.1	565	GI3703	2023	GME6003	1617	GP340	1122	GS9025I	2009
GE-514	1122	GES5368	2009	GEZD-6.0	561	GI-3704	2009	GME9001	2016	GP235A	1123	GS9025J	2009
GE-531	1114	GES5369	2009	GEZD-6.2	561	GI3704	1617	GME9002	2016	GP236A	1123	GS9025J-1	2009
GE-1232	703	GES5370	2009	GEZD-8.7	562	GI-3705	2009	GME9021	2016	GPM1NA	1123	GS9033(I)	2009
GE-3229	2020	GES5371	2009	GEZD-9.1	562	GI3705	1617	GME9022	2016	GPM1NB	1123	GS9033(J)	2009
GE-3265	1617	GES5372	2023	GEZD-11.5	563	GI-3706	2009	GMO-380	2009	GPM1NC	1123	GSA15B	1114
GE3265	2009	GES5373	2023	GEZD-12	563	GI3706	1617	GMO380	2016	GPM1NA	1123	GSA15C	1114
GE-3638	1123	GES5374	2023	GEZD-15	564	GI-3707	2016	GO1-803A	565	GR16	1114	GSA15L	1114
GE3638	1123	GES5375	2023	GEZJ252A	1104	GI3707	1617	GO3-007C	2017	GR22	1114	GSA15G	1114
GE-4061	2401	GES5447	2023	GEZJ252B	1104	GI-3708	2016	GO4-041B	2009	GR23	1114	GSA30B	1114
GE-4011	2411	GES5448	2023	GFB-30G	1114	GI3708	1617	GO5-003-A	1617	GR24	1114	GSA30C	1114
GE-4013	2413	GES5449	1617	GFD10B	1104	GI-3709	2016	GO5-003-B	2009	GS73E/3	1123	GSA30E	1114
GE-4017	2417	GES5450	1617	GFD10C	1104	GI3709	1617	GO5-004A	2016	GS2012	2020	GSA30G	1114
GE-4049	2449	GES5451	2009	GFD10E	1104	GI-3710	2016	GO5-010-A	1617	GS2012(G)	2020	GSA30J	1114
GE-5304	1173	GES5811	2023	GFD10G	1104	GI3710	1617	GO5-011-A	1617	GS2012(H)	2020	GSB10B	1114
GE-5400	1067	GES5813	2023	GI08B	1104	GI-3711	2016	GO5-015-C	2009	GS2012G	2020	GSB10C	1114
GE-5401	1067	GES5814	2009	GI-1N4385	1104	GI3711	1617	GO5-015-D	2030	GS2012H	2020	GSB10E	1114
GE-5402	1067	GES5815	2023	GI10	1617	GI-3721	2016	GO5-034-D	2030	GS2013(G)	2020	GSB10G	1114
GE-5404	1067	GES5816	2009	GI-100-1	1104	GI3723	2016	GO5-035-D	2016	GS2013(H)	2020	GSB10J	1114
GE-5414	1067	GES5817	2023	GI254	1104	GI-3904	2016	GO5-035-D,E	2016	GS2013-G	2020	GSB10L	1114
GE-5415	1020	GES5818	2009	GI298-03	1104	GI-3904A	2016	GO5-035-E	2016	GS2013-H	2020	GSC2062G	2009
GE-5453	1067	GES5819	2023	GI-300B	1104	GI3992-17	1104	GO5-036-C,D,E	2009	GS2013-I	2020	GSC2052H	2027
GE-5455	1067	GES5821	2023	GI-300D	1104	GID	1104	GO5-036B	2009	GS2013-O	2020	GSH9025	2009
GE-5457	1020	GES5822	2009	GI323-04	1104	GI-P100C-D	1104	GO5-036C	2009	GS2013-Y	2020	GS19011	2009
GE-5512	1020	GES5823	2023	GI411	1104	GIP100-D	1104	GO5-036D	2030	GS2013G	2020	GSMS1	1101
GE-5642	1000	GES5824	2009	GI419-0	1104	GIP100D	1104	GO5-036E	2009	GS2013H	2020	GSMS2	1101
GE-5801	1143	GES5825	2009	GI4195	1104	GI-TVCA	1101	GO5-037B	2009	GS2013(H)	2027	GSMS3	1104
GE-6163	1122	GES5826	2009	GM20	1104	GJ4M	1104	GO5-050-C	2009	GS2052D	2027	GSMS4	1104
GE-6366	1104	GES5827	2009	GI428B	1104	GL-1N4385	1104	GO5-055-D	2030	GS2052G	2027	GSMS4B2	1104
GE6366	1104	GES5827A	2009	GI500	1141	GL5AR	1104	GO5-413A	2027	GS2052H	2027	GSMS4B3	1104
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GE-7447	1805	GES6001	2023	GI810	1104	GL7805	1770	GOO-004-A	1123	GS9011(I)	2009	GSZ5.1	565
GE-7490	1806	GES6002	2009	GI811	1104	GLA47	565	GOO-008-A	1123	GS9011(J)	2009	GSZ5.1A	565
GEA6.2(E)B2	561	GES6003	2023	GI812	1104	GLA47A	565	GOO-009-A	1123	GS9011-G	2009	GSZ6.2	561
GE-CR3	1101	GES6004	2009	GI814	1104	GLA47B	565	GOO-012-A	565	GS9011-H	2009	GSZ6.2A	561
GE-CR-3	1101	GES6005	2023	GI816	1104	GLA51	565	GOO-013-B	1123	GS9011-I	2009	GSZ9.1	562
GED05B050	1123	GES6006	2009	GI-2711	2009	GLA31A	565	GOO-014-A	565	GS9011F	2009	GSZ9.1A	562
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GE-FFT-3	2034	GES6010	2030	GI-2712	2009	GIA62	561	GOO-536A	1144	GS9011J	2009	GSZ12A	563
GEIC-179	703	GES6011	2023	GI2712	1617	GIA62A	561	GOO-543-A	1144	GS9012-G	2023	GSZ15	564
GEIC-190	1770	GES6012	2030	GI2713	2009	GIA62B	561	GP05A	1104	GS9012-H	2023	GSZ15A	564
GEIC-194	1801	GES6013	2023	GI-2714	2009	GIA91	562	GP08B	1104	GS9012-I	2023	GT06	1000
GEIC-220	036	GES6014	2030	GI2714	1617	GIA91A	562	GP08D	1114	GS9012G	2023	GT1575	564
GEIC-260	1740	GES6015	2023	GI-2715	2016	GIA91B	562	GP08DPKG23	1114	GS9012H	2023	GT1644	2023
GEIC-265	041	GES6016	2030	GI2715	1617	GM037B	1173	GP1	1104	GS9012I	2023	GU-1	1104
GEIC-269	1720	GES6017	2023	GI-2716	2016	GM0380	2016	GP2-3#5	1122	GS9012J	2027	GU-1A	1104
GEIC-334	703	GES6222	2009	GI2716	1617	GM-1	1114	GP2-354	1122	GS9014	2009	GU-1Z	1104
GER-3	1067	GES6224	2009	GI-2921	2016	GM-1A	1114	GP10A	1101	GS9014-H	2009	GU-3	1104
GER4001	1114	GES6560	2009	GI2921	1617	GM-1B	1104	GP10B	1104	GS9014-I	2009	GU3	1104
GER4002	1114	GES6561	2009	GI-2922	2016	GM-1C	1114	GP10D	1104	GS9014-J	2009	GU-3A	1104
GER4003	1114	GES6563	2023	GI2922	1617	GM1J2	1114	GP10G	1103	GS9014-K	2009	GU3A	1104

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GU-3C	1104	H109	1114	HA7507	2023	HC-00536	2016	HC700	1104	HD1000301	1123	HE-442-54	1770
GU3C	1104	H1235H	1000	HA7510	2023	HC-00537	2009	HC710	1104	HD1000302	1123	HE-442-63	1772
GU-3SZ	1143	H142	1122	HA7533	2023	HC-00644	2030	HC720	1114	HD1000303	1123	HE-442-602	1711
GU3SZ	1143	H200	1104	HA7534	2023	HC-00668	2016	HC730	1114	HD1000303-0	1123	HE-442-663	1771
GU-3Z	1104	H254B4	1104	HA7536	2023	HC-00693	2009	HC-772	2009	HD1000320	1123	HE-442-674	1771
GV5760	1122	H254E4	1104	HA7537	2023	HC-00711	2016	HC772	2016	HD-2000106	1122	HE-443-7	1808
GV6063	1617	H284D4	1104	HA7538	2023	HC-00732	2016	HC784	2016	HD2000106	1122	HE-443-36	1805
GXI4.7	565	H300	1104	HA7543	2023	HC-00735	2009	HC800	1114	HD2000108	1114	HE-443-45	1822
GXI5.1	565	H315F4	1104	HA7597	2023	HC-00772	2016	HC829	2016	HD2000110-0	1104	HE-443-603	2411
GXI6.2	561	H315M2	1104	HA7598	2023	HC-00784	2058	HC-1000	2016	HD2000206	1122	HE-443-607	2413
GXI9.1	562	H316	1123	HA7599	2023	HC-00828	2009	HC-50102	1067	HD2000301	1104	HE-443-629	1808
GXI12G	563	H326B4	1104	HA7633	2023	HC-00829	2016	HC10004110	1801	HD2000301-0	1104	HE-443-695	2401
GXI15	564	H400	1104	HA7804	2023	HC-00838	2009	HCC40018D	2401	HD2000305	1104	HE-443-703	2401
GXI115	563	H410	1101	HA7806	2023	HC00838	2009	HCC40018F	2401	HD2000307	1104	HE-443-794	2520
GYMTZ9.1-C	562	H442	2016	HA7808	2023	HC-00839	2009	HCC40018K	2401	HD-2000308	1104	HE-443-794(,75188N)	
GYW76	1104	H475	1104	HA7810	2023	HC-00871	2009	HCC40118D	2411	HD2000308	1104		2520
GZ1-4.7	565	H500	1104	HA7815	2023	HC-00900	2016	HCC40118F	2411	HD2000413	1104	HE-443-794(,MCT488)	
GZ1-5.1	565	H585	1104	HA9532B	2023	HC-00920	2016	HCC40118K	2411	HD2000501	1102		2520
GZ1-6.2	561	H600	1104	HA17458GS	038	HC-00921	2009	HCC40138D	2413	HD2000510	1104	HE-443-795	2521
GZ1-9.1	562	H614	1123	HA17555	1723	HC-00923	2016	HCC40138F	2413	HD2000610	1104	HE-443-795(,MCT489A)	
GZ1-12G	563	H616	1104	HA17555PS	1723	HC-00924	2009	HCC40138K	2413	HD2000703	1104		2521
GZ1-15	564	H617	1104	HA17558	038	HC-00929	2058	HCC40178D	2417	HD2000803	1104	HE-443-795	
GZ1-115G	563	H618	1104	HA17723G	1740	HC-00930	2016	HCC40178F	2417	HD2000903	1104	(,SN75189AN)	2521
GZ6.2	561	H619	1104	HA17741	007	HC00930	2058	HCC40178K	2417	HD2001005	1122	HE-443-929	2417
GZA4.7	565	H620	1104	HA17741G	007	HC-00945	2009	HCF40018E	2401	HD2001105	1122	HE-1024	1123
GZA4.7-X-BT	565	H621	1114	HA17741GS	007	HC-01000	2016	HCF40018F	2401	HD2001310	1104	HE-10001	1123
GZA4.7X	565	H623	1122	HA17741PS	007	HC-01047	2016	HCF40118E	2411	HD3000101-0	563	HE-10002	1123
GZA4.7Y	565	H624	1123	HA17805	1770	HC-01060	2017	HCF40118F	2411	HD-3000301	1104	HE-10003	1123
GZA4.7Z	565	H625	1104	HA17805HS	1770	HC-01098	2017	HCF40138E	2413	HD3000401	562	HE-10024	1123
GZA5.1	565	H626	1104	HA17805P	1770	HC-01209	2030	HCF40138F	2413	HD3001109	564	HE-10025	1123
GZA5.1(X)	565	H781	1104	HA17812P	1771	HC-01317	2030	HCF40178E	2417	HD3002409	563	HE-10027	1123
GZA5.1(Y)	565	H783	1104	HA17815P	1772	HC-01318	2009	HCF40178F	2417	HD3003309	565	HE-10030	1122
GZA5.1(Z)	565	H800	1114	HA17901G	1712	HC-01327	2016	HCF40498E	2449	HD4000109	1123	HE-10044	1123
GZA5.1-BT	565	H-881	1114	HA17902G	1711	HC-01335	2016	HCF40498F	2449	HD10001010	1123	HE-15188	1123
GZA5.1-X-BT	565	H881	1104	HA17902P	1711	HC-01359	2016	HCV	1104	HD10001050	1123	HE-15426	1123
GZA5.1-Y-BT	565	H889	1122	HAB005	1114	HC-01390	2009	HD-00227	1617	HD10002020	1123	HE-15446	1123
GZA5.1X	565	H890	1101	HAR10	1104	HC-01417	2016	HD-1	1104	HD20001100	1104	HE-20011	1104
GZA5.1Y	565	H891	1104	HAR15	1104	HC-01820	2009	HD10-001-01	1123	HD20001210	1122	HE-C00000	1123
GZA6.2	561	H931	1617	HAR20	1104	HC-01830	2016	HD20-003-01	1104	HD20003010	1104	HEF40018D	2401
GZA6.2(X)	561	H933	1617	H82	1104	HC-30	1104	HD7401P	1801	HD20005100	1114	HEF40018P	2401
GZA6.2(Y)	561	H934	1617	H83	1101	HC30	1114	HD2000	1104	HD20007030	1104	HEF4001P	2401
GZA6.2-BT	561	H1000	1114	H812B	563	HC-39	1104	HD2000-301	1104	HD20011050	1122	HEF40118D	2411
GZA6.2-X	561	H1017A	1144	H850	1114	HC39	1104	HD2503	1801	HD20023100	1104	HEF40118P	2411
GZA6.2-Y	561	H-1567	2009	H8600	1114	HC50	1114	HD2503P	1801	HD30017090	562	HEF4011P	2411
GZA6.2-Y-BT	561	H1567	1617	H8800	1114	HC-56	2009	HD2509	1801	H-DX0038CE	1103	HEF40138D	2413
GZA6.2BT	561	H7126-3	1104	H81000	1114	HC67	1104	HD2509P	1801	H-DX0046CE	1122	HEF40138P	2413
GZA6.2U	561	H8287	1123	HBC4001AD	2401	HC67F	1114	HD2519	1808	H-DX0086TA	1104	HEF4013P	2413
GZA6.2Y	561	H8287-4	1123	HBC4001AF	2401	HC-68	1104	HD2519P	1808	H-DX0105TA	1104	HEF40178D	2417
GZA9.1	562	H8513A	1123	HBC4001AK	2401	HC68	1104	HD2522	1802	H-DX0248CE	1104	HEF40178P	2417
GZA9.1-Z	562	H8513D	1123	HBC4011AD	2411	HC69	1104	HD2522P	1802	HE-0A90	1123	HEF4017P	2417
GZA9.1E	562	H9423	1617	HBC4011AF	2411	HC71	1104	HD2532	1805	HE-1N34	1123	HEF40498D	2449
GZA9.1Z	562	H9623	1617	HBC4011AK	2411	HC72	1114	HD2532P	1805	HE-1N34A	1123	HEF40498P	2449
GZA12	563	H9625	2016	HBC4013AD	2413	HC72F	1114	HD2550	1822	HE-1N60	1123	HE-M8489	1122
GZA12-Y-BT	563	H9696	1617	HBC4013AF	2413	HC73	1114	HD2550P	1822	HE-1N60P	1123	HEP50	2009
GZA12BT	563	H10174	1104	HBC4013AK	2413	HC73F	1114	HD4001	2401	HE-15188	1123	HEP52	2023
GZA12X	563	H20052	1104	HBC4017AD	2417	HC80	1104	HD4011	2411	HE-15426	1123	HEP53	2009
GZA12Y	563	H21400014	1122	HBC4017AF	2417	HC206	2016	HD4013	2413	HE-15446	1123	HEP54	2009
GZA12YBT	563	H21400015	1122	HBC4017AK	2417	HC371	2009	HD4017	2417	HE-56-56	1122	HEP55	2016
GZA15	564	H21400026	1122	HBF4001	2401	HC372	2009	HD4049	2449	HE-56-58	561	HEP56	2016
GZB6.2	561	H23100024	2023	HBF4001A	2401	HC-373	2009	HD6147	1104	HE-56-73	1122	HEP57	2023
GZB9.1	562	H23100045	2023	HBF4001AE	2401	HC373	2009	HD6865	1104	HE-56-93	1122	HEP103	561
GZB9.1C	562	H31100129	2449	HBF4001AF	2401	HC380	2016	HD7400	1801	HE-57-27	1104	HEP104	562
GZB12	563	HA-00495	2023	HBF4009A	2449	HC381	2016	HD7400P	1801	HE-57-42	1114	HEP105	563
GZB12B	563	HA00562	2023	HBF4011	2411	HC394	2016	HD7401P	1801	HE-57-64	1114	HEP134	1123
GZB12C	563	HA-00564	2023	HBF4011A	2411	HC454	2016	HD7404	1802	HE-57-65	1104	HEP135	1123
GZB15	564	HA-00610	2023	HBF4011AE	2411	HC458	2009	HD7404P	1802	HE-234-264	1104	HEP154	1104
GZB15C	564	HA-00733	2023	HBF4011AF	2411	HC460	2016	HD7490A	1808	HE-234-266	563	HEP155	1104
GZM6.2(B2)	561	HA50	1104	HBF4013	2413	HC461	2016	HD7490AP	1808	HE-234-267	1104	HEP156	1102
GZM9.1(B2)	562	HA100	1104	HBF4013A	2413	HC-495	2017	HD140018	2401	HE-234-267(,W103-254)	1104	HEP157	1104
HJ-00005	563	HA178M05	1770	HBF4013AE	2413	HC495	2020	HD14011B	2411		1104	HEP158	1104
HJ-00008	1104	HA178M05P	1770	HBF4013AF	2413	HC500	1104	HD14011BP	2411	HE-234-274	1617	HEP159	1114
HJ-00012	562	HA178M12P	1771	HBF4017	2417	HC-535	2009	HD140138	2413	HE-234-275	2009	HEP160	1114
HJ-00018	1104	HA178M15P	1772	HBF4017A	2417	HC535	2016	HD140178	2417	HE-234-290	2009	HEP161	1141
H087	1123	HA200	1104	HBF4017AE	2417	HC535A	2016	HD14049UB	2449	HE-234-299	1122	HEP162	1143
H089	563	HA300	1104	HBF4017AF	2417	HC535B	2016	HD75188	2520	HE-234-353	1104	HEP166	1101
H091	1123	HA400	1104	HBF4049A	2449	HC-537	2016	HD75188P	2520	HE-234-522	2009	HEP170	1114
H1V	2016	HA500	1104	HC-00227	1617	HC537	2016	HD75189	2521	HE-234-523	2009	HEP175	1171
H1Z	1104	HA505	2027	HC-00268	2030	HC539	2009	HD75189P	2521	HE-234-526	1104	HEP177	1173
H11J1	134	HA600	1104	HC-00372	2058	HC545	2016	HD200207	1104	HE-417-821	2009	HEP243	2030
H11J2	134	HA800	1114	HC-00373	2016	HC-561	2009	HD200301	1104	HE-417-822	2023	HEP248	2043
H11J3	134	HA1000	1114	HC-00380	2016	HC561	2009	HD-1000101	1123	HE-417-865	2023	HEP312	2016
H11J4	134	HA2001	2035	HC-00394	2016	HC600	1114	HD1000101	1123	HE-417-874	1604	HEP320	1067
H11J5	134	HA2010	2035	HC-00458	2009	HC645	2016	HD1000101-0	1123	HE-417-875	2009	HEP340	1000
H50	1104	HA5062-5	1715	HC-00460	2009	HC-668	2016	HD1000105	1123	HE-417-923	2055	HEP602	565
H100	1104	HA7501	2023	HC-00461	2009	HC668	2016	HD1000105-0	1123	HE-417-937	2009	HEP604	563

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HEP705	2041	HEPR0170	1114	HEP-Z0211	365	HF200191A	2035	HKT-161	2009	HR13	1104	HS-1227	2016
HEP708	2023	HEPR0180	1114	HEP-Z0211	565	HF200191A-0	2035	HL18998	1801	HR-13A	1617	HS-1229	1617
HEP709	2058	HEPR0604	1114	HEP-Z0211A	565	HF200191A0	2035	HL19000	1802	HR13A	2009	HS2047	565
HEP711	2030	HEPR0801	1171	HEP-Z0214	561	HF200191A0	2035	HL19015	1808	HR-14	2016	HS2051	565
HEP716	2023	HEPR0802	1171	HEP-Z0214	561	HF200191B-0	2035	HL55763	1822	HR14	2009	HS2062	561
HEP717	2023	HEPR0804	1173	HEP-Z0214A	561	HF200191B0	2035	HL55862	1802	HR-14A	1617	HS2091	562
HEP718	2016	HEPR0841	1171	HEP-Z0219	562	HF200191B0	2035	HL56420	1801	HR14A	2009	HS2120	563
HEP719	2058	HEPR0842	1171	HEP-Z0219	562	HF200301B	2035	HL56421	1802	HR-15	2016	HS2150	564
HEP720	2058	HEPR0845	1173	HEP-Z0219A	562	HF200301B0	2035	HM9.1	562	HR-15A	1617	HS3103	1104
HEP721	2016	HEPR0851	1171	HEP-Z0222	563	HF200301B0	2035	HM9.1A	562	HR15A	2009	HS3104	1104
HEP722	2016	HEPR0852	1171	HEP-Z0222	563	HF200301C-0	2035	HM9.1B	562	HR-16	1617	HS3105	1122
HEP723	1617	HEPR0855	1173	HEP-Z0222A	563	HF200301C-0	2035	HM12	563	HR16	2009	HS3108	1114
HEP724	1617	HEPR1001	1067	HEP-Z0225	564	HF200411B	2035	HM12A	563	HR-16A	1617	HS3110	1114
HEP725	2009	HEPR1002	1067	HEP-Z0225	564	HF200411C0	2035	HM12B	563	HR16A	2009	HS7047	565
HEP726	2016	HEPR1003	1067	HEP-Z0225A	564	HF309301E	2016	HM15	564	HR-17	1617	HS7051	565
HEP727	2016	HEPR1004	1067	HEP-Z0405	565	HF2000411B	2035	HM15A	564	HR17	2009	HS7062	561
HEP728	1617	HEPR1005	1067	HEP-Z0405	565	HF-D5410	1122	HM15B	564	HR-17A	1617	HS7091	562
HEP729	1617	HEPR1215	1067	HEP-Z0406	565	HF-MV2	1122	HMG251	1122	HR17A	2009	HS7120	563
HEP730	2016	HEPR1216	1067	HEP-Z0406	565	HF-SD1	1104	HMG252	562	HR-18	1617	HS7150	564
HEP731	2016	HEPR1217	1067	HEP-Z0408	561	HF-SD-1A	1104	HMG625	1122	HR18	2009	HS8407	2055
HEP732	2016	HEPR1218	1067	HEP-Z0408	561	HFSD1A	1104	HMG625A	1122	HR-18A	1617	HS9010	1122
HEP733	2016	HEPR1219	1020	HEP-Z0412	562	HFSD1B	1104	HMG789	1122	HR18A	2009	HS9502	1122
HEP734	2016	HEPR1711	1000	HEP-Z0412	562	HF-SD-1C	1104	HMG790	1122	HR-19	1617	HS9503	1122
HEP735	2009	HEPR1712	1000	HEP-Z0415	563	HFSD12	1114	HMG791	1122	HR19	2009	HS9505	1122
HEP736	2009	HEPR1713	1000	HEP-Z0415	563	HFSG005	1104	HMG792	1122	HR-19A	1617	HS9506	1122
HEP737	2016	HEPR1715	1000	HEP-Z0416	563	HG1090	1123	HMG811	1122	HR19A	2009	HS9508	1122
HEP738	2009	HEPR9002	1101	HEP-Z0417	564	HG5001	1123	HMG812	1122	HR28	2030	HS9509	1122
HEP739	2023	HEPR9003	1101	HEP-Z0418	564	HG5002	1123	HMG813	1122	HR29	2030	HS-40014	2009
HEP801	2035	HEP-R9134	1123	HEP-Z0418	564	HG5003	1123	HMG903	1122	HR-32	2009	HS-40016	2009
HEP802	2035	HEP-R9134	1123	HEP-Z0419	564	HG5004	1123	HMG903A	1122	HR32	2009	HS-40017	2016
HEP803	2035	HEPR9134A	1123	HEP-Z1409	565	HG5005	1123	HMG904	1122	HR-36	2009	HS-40019	2016
HEPC3000L	1801	HEPR9135	1123	HE-SD1	1104	HG5006	1123	HMG904A	1122	HR36	2009	HS-40020	2016
HEPC3000P	1801	HEPR9135	1123	H-EX0019CE	564	HG5007	1123	HMG905	1122	HR-37	1617	HS-40021	2016
HEPC3001L	1801	HEPR9136	1123	H-EX0047CE	563	HG5008	1123	HMG905A	1122	HR37	2009	HS-40022	2016
HEPC3001P	1801	HEPR9137	1122	H-EX0049CE	565	HG5009	1123	HMG906	1122	HR-38	2009	HS-40023	2016
HEPC3004P	1802	HEPS0002	2009	H-EX0061CE	563	HG5020	1123	HMG906A	1122	HR39	2016	HS-40024	2016
HEPC3800L	1808	HEPS0004	2009	H-EX0247CE	561	HG5078	1123	HMG907	1122	HR-47	2016	HS-40025	2016
HEPC3800P	1808	HEPS0006	2023	HF-05W05	1104	HG5079	1123	HMG907A	1122	HR47	2016	HS-40026	2030
HEPC4001P	2401	HEPS0008	2058	HFOW05	1104	HG5085	1123	HMG908	1122	HR-48	2009	HS-40027	2023
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HEP-C-1102P	038	HEPS0011	2009	HF-1S334	562	HG5808	1123	HMG3067	1122	HR-51	2016	HS-40031	2023
HEP-C-102P	038	HEPS0015	2009	HF-1S339	562	HG1	1104	HMG3068	1122	HR51	2016	HS-40035	2023
HEP-C-1109P	1770	HEP-50016	2016	HF2	2009	HGR2	1104	HMG3123	1122	HR-59	2016	HS-40037	1617
HEP-C-1133P	1771	HEP-50016	2016	HF3	2009	HGR3	1104	HMG3124	1122	HR59	2016	HS-40039	2009
HEPC6114P	1772	HEPS0017	2058	HF4	2009	HGR4	1104	HMG3593	1122	HR-60	2009	HS-40040	2023
HEPC6130P	1723	HEPS0020	2016	HF5	2009	HGR-5	1104	HMG3596	1122	HR60	2016	HS-40044	1617
HEPC6131P	1723	HEP-50021	1617	HF6	2009	HGR5	1101	HMG4147	1122	HR62	2009	HS-40045	2016
HEPC7400P	1801	HEPS0021	2016	HF7	2009	HGR-R10	1104	HMG9010	1122	HR63	2009	HS-40046	1617
HEPC7401P	1801	HEPS0022	2009	HF8	2009	HGR-10	1104	HN-00002	1122	HR64	2009	HS-40047	2016
HEPC7404P	1802	HEP-50023	2016	HF9	2030	HGR10	1104	HN-00003	1123	HR65	2009	HS-40049	2016
HEPC7409P	1822	HEPS0023	2016	HF11	2017	HGR-20	1104	HN-00005	563	HR66	2009	HS-40049	2016
HEPC7447AP	1805	HEP-50024	2016	HF15	2017	HGR20	1122	HN-00008	1104	HR-68	2020	HS-40050	2023
HEPC7447P	1805	HEPS0024	2016	HF17	2016	HGR-30	1104	HN-00012	562	HR-69	2017	HS-40053	2009
HEPC7449AP	1806	HEPS0025	2009	HF47	2023	HGR30	1122	HN-00018	1101	HR69	2020	HS-40054	2009
HEPC7490P	1808	HEP-50026	2023	HF50	2009	HGR-40	1104	HN-00024	562	HR70	2027	HS-40055	2016
HEPD0002	075	HEPS0026	2023	HF57	2020	HGR40	1103	HN-00032	1104	HR-71	2023	HS-40057	2023
HEPF0010	2035	HEP-50030	1617	HF58	2027	HGR-60	1104	HN-0047	1122	HR71	2023	HSC-1	1114
HEP-F0015	2035	HEP-50031	2023	HF-10024	1123	HGR60	1104	HO91	1123	HR76	2016	HSC1	1114
HEPF0015	2035	HEP-50031	2023	HF-20004	562	HO99	1000	HO99	1101	HR77	2058	HSCN-1001	1104
HEP-F0021	2035	HEPS0031	2023	HF-20008	1123	HO35D	1000	HP-5A	1104	HR78	2058	HSFD-1	1114
HEPF1036	2035	HEPS0032	2023	HF-20011	562	HO35G	1000	HP80	1123	HR79	2016	HSFD-1A	1104
HEPP0003	2016	HEPS0032	2023	HF-20014	1122	HO35H	1000	HP205	1104	HR80	2016	HSFD-1Z	1104
HEPP0002	134	HEPS0033	2058	HF-20032	1104	HO35S	1000	HP5082-0103	1122	HR81	2030	HSFD-1Z(SCNY)	
HEPR0050	1104	HEPS0034	1617	HF-20032	1122	HO35S	1000	HP5082-0132	1122	HR87	2058	STANDBY	1104
HEPR0051	1104	HEPS0035	2009	HF-20034	1122	HO35S	1000	HP5082-0133	1122	HR-200	1143	HSP1001	1122
HEPR0052	1104	HEPS0036	2009	HF-20041	563	HO35S	1000	HP5082-0134	1122	HR600	1114	HSP1007	1122
HEPR0053	1104	HEPS0037	2023	HF-20042	1104	HO35S	1000	HP5082-2800	1122	HR800	1114	HSP1010	1122
HEPR0054	1104	HEPS0038	2009	HF-20047	1104	HO35S	1000	HP5082-3001	1122	HR1000	1114	HSP1011	1122
HEPR0055	1114	HEPS0040	2009	HF-20048	1122	HO35S	1000	HP5082-3080	1122	HRP22	1104	HSP1013	1122
HEPR0056	1114	HEPS0045	2017	HF-20050	1104	HO35S	1000	HP35860A	1617	HRP32	1104	HSP1020	1102
HEPR0070	1142	HEPS0060	2020	HF-20052	1104	HO35G	1000	HR-05A	1104	HS25-1B	1104	HST5001	2016
HEPR0071	1142	HEPS0061	2020	HF-20061	1122	HO35H	1000	HR-2A(PENNCREST)	1104	HS1001	1104	HST-9201	2041
HEPR0072	1144	HEP-55014	2030	HF-20061	1122	HO35D	1000	HR-5A	1104	HS1002	1104	HST-9205	2041
HEPR0080	1114	HEPS5021	2055	HF-20063	1122	HO35D	1000	HR5A	1104	HS1003	1104	HST-9206	2041
HEPR0081	1114	HEPS5026	2030	HF-20064	1122	HO35G	1000	HR5A8E	1104	HS1094	1122	HST-9210	2041
HEPR0082	1114	HEP-57002	2041	HF-20065	562	HO35H	1000	HR-5AX2	1104	HS1005	1122	HT100	2023
HEPR0084	1114	HEPS7002	2041	HF-20066	1104	HO35S	1000	HR-5B	1104	HS1006	1122	HT101	2023
HEPR0086	1114	HEPS7003	2043	HF-20067	1104	HO35S	1000	HR5B	1104	HS1007	1104	HT102	2009
HEPR0090	1114	HEP-57004	2041	HF-20071	1114	HO35G	1000	HR10	1104	HS1008	1104	HT103	2009
HEPR0091	1114	HEP-57005	2041	HF-20084	1104	HO35S	1000	HR-11	1617	HS1009	1104	HT400	1617
HEPR0092	1114	HEPS7006	2055	HF-20088	1123	HIF	1104	HR11	1104	HS1010	1104	HT401	1617
HEPR0094	1114	HEPS9150	2068	HF-20095	1122	HIT9014N-C	2009	HR11A	2009	HS1012	1104	HT30491C	2041
HEPR0096	1114	HEP-20210	565	HF-20123	1122	HK-00049	2035	HR-11B	1617	HS1020	1104	HT30494X	2041
HEPR0097	1114	HEP-Z0210	565	HF-20124	1122	HK-00390	2035	HR11B	2009	HS-1168	1617	HT31041CO	2016
HEPR0099	1114	HEP-Z0210A	565	HF200191A	2035	HKT-158	2009	HR-12	2030	HS-1225	2016	HT36441B	2016
								HR-13	1617	HS-1226	2016	HT38281D	2009

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HT104861	2030	HT304581B-O	2009	HT309291C	2016	HV-25(DIODE)	1122	HZ-12ABC	563	INC61684	1101	IP7812	1771
HT104861A	2030	HT304581C	1617	HT309291E	2016	HV25(HITACHI)	1122	HZ12B	563	INJ33349	1123	IP7815	1772
HT104861B	2030	HT304601B0	2009	HT309301C	2016	HV-25(RCA)	1122	HZ-12B2	563	INJ60034	1123	IR2A	1104
HT104941B-0	2023	HT304601B0	2009	HT309301D	2016	HV-26	1104	HZ-12C	563	INJ60284	1123	IR2E	1104
HT104941B-O	2023	HT304601C0	2016	HT309301E	2016	HV-26G	1104	HZ12C	563	INJ61224	1123	(IR)25A564A	2023
HT104941C-0	2023	HT304601CO	2009	HT309301F	2016	HV-27	1122	HZ-15	564	INJ61225	561	(IR)25C281B	2016
HT104941CO	2023	HT304611B	2016	HT309451L0	2009	HV46#OR#(DIODE)	1104	HZ15	564	INJ61227	1104	(IR)25C372	2058
HT104941C-O	2023	HT304861	2030	HT309451R0	2009	HV-46GR	1104	HZ15(H)	564	INJ61433	1122	(IR)25C373	2016
HT104942A	2023	HT304861A	2030	HT309452AO	2009	HV-100	1104	HZ15-1	564	INJ61434	1104	(IR)25C380AO	2058
HT104951A-0	2023	HT304861B	1617	HT309680B	2030	HV-801	1123	HZ15-3	564	INJ61675	1123	(IR)25C403A	2016
HT104951B	2023	HT304941X	2041	HT309714A-0	2030	HW9.1	562	HZ15H	564	INJ61677	1122	(IR)25C454B	2009
HT104951B-0	2023	HT304961C-0	2017	HT309841B0	2030	HW9.1A	562	HZ15L	564	INJ61725	1122	(IR)25C458B	2009
HT104951C	2023	HT304961C-O	2017	HT309841B0	2030	HW9.1B	562	HZ15PB	564	INJ61726	1104	(IR)25C460B	2058
HT105611	2023	HT304971A	2030	HT309842A-0	1617	HW9.81B	562	HZ312A	563	INJ70973	1123	(IR)25C535B	2016
HT105611A	2023	HT304971AO	2030	HT309842A-O	2030	HW11B	563	HZ5230	565	INJ70980	1123	(IR)25C536	2016
HT105611B	2023	HT304971AO	2030	HT310001F	2016	HW12	563	HZ54.7N82-1TJ	565	INMPD4011BC	2411	(IR)25C537B	2016
HT105611B0	2023	HT304971B0	2030	HT310002A	2016	HW12A	563	102A978120	1771	INMPD4011BC	2411	(IR)25C538A	2009
HT105611B0	2023	HT305351B0	2016	HT311621B	2020	HW12B	563	153D040010	2401	(,UPD4011BC)	2411	(IR)25C644	2016
HT105611C	2023	HT305351CO	2016	HT312131CO	2009	HW15	564	155D040010	2401	INMPD4013BC	2413	(IR)25C682A	2058
HT105612B	2023	HT305351CO	2009	HT313171R	2009	HW15A	564	1538	1104	INUPD4011BC	2411	(IR)25C710	2009
HT105621B-0	2023	HT305361E	2009	HT313172A	2009	HW15B	564	19646	1122	INUPD4013BC	2413	(IR)25C717	2009
HT105621B0	2023	HT305361G	2009	HT313181C	2030	HX50001	2016	19623	2016	IP20-0001	2009	(IR)25C772	2058
HT105621B0	2023	HT305371E	1617	HT313271T	2016	HX50002	1617	19631	2030	IP20-0002	2009	(IR)25C828A	2058
HT105641C	2023	HT305642B	2023	HT313272B	2016	HX50003	2016	1473688-1	1067	IP20-0006	2009	(IR)25C829B	2009
HT105641D	2023	HT306441	2009	HT313591CO	2009	HX-50063	2009	IC-20	1740	IP20-0007	2020	(IR)25C838	2009
HT105641H	2023	HT306441A	2016	HT313592B	2009	HX-50072	2009	IC-20(PHILCO)	1740	IP20-0006	2058	(IR)25C945	2016
HT105642B	2023	HT306441A0	2030	HT316751M0	2009	HX-50091	2058	IC-74(ELCOM)	1801	IP20-0012	2035	IR5GZ61	1114
HT105642CO	2023	HT306441AO	2030	HT318291D0	2009	HX-50092	2009	IC-80(ELCOM)	1801	IP20-0015	1123	IR5JA	1123
HT106731B	2023	HT306441B0	1617	HT319091O0	2009	HX-50094	2023	IC-84(ELCOM)	1802	IP20-0016	1123	IR10E6J	1104
HT106731B0	2023	HT306441B-0	1617	HT401191	2041	HX-50097	2009	IC-98(ELCOM)	1808	IP20-0018	564	IR10E6X	1104
HT107211T	2023	HT306441B0	1617	HT401191A	2041	HX-50102	1067	IC-101(ELCOM)	1805	IP20-0019	562	IR20	1104
HT107331Q0	2023	HT306441B-O	2030	HT401191B	2041	HX-50105	2023	IC-102(ELCOM)	1822	IP20-0020	1123	IR30DF	1114
HT303620B	1617	HT306441B0	2030	HT401193AO	2041	HX-50107	2009	IC-520(ELCOM)	1723	IP20-0021	1122	IR106A1	1067
HT303711A	2009	HT306441C	1617	HT402352B	2020	HX-50108	2009	IC-555	1723	IP20-0022	1114	IR106A1-C	1067
HT303711A-0	2009	HT306441C-0	1617	HT403131E0	2020	HX-50110	2016	IC-1489	2521	IP20-0025	1103	IR106A2	1067
HT303711AO	2009	HT306441C-O	2030	HT403131EO	2020	HX-50112	2023	IC4001BP	2401	IP20-0028	2041	IR106A3	1067
HT303711A-O	2009	HT306442A	2016	HT403132AO	2020	HX-50113	2009	IC-7400	1801	IP20-0029	2009	IR106A4	1067
HT303711AO	2009	HT306442B	2016	HT403151E	2020	HX-50128	2023	IC-7404	1802	IP20-0032	2009	IR106A41	1067
HT303711B	2009	HT306451	2016	HT403152A	2020	HX-50161	2009	IC-7408	1822	IP20-0034	2009	IR106B1	1067
HT303711B-0	2009	HT306451A	2016	HT600011F	2023	HX-50172	1617	IC-7408N	1822	IP20-0035	2035	IR106B1-C	1067
HT303711B0	2009	HT306451B	2016	HT600011H	2023	HX-50176	2023	IC743040	2058	IP20-0036	2020	IR106B2	1067
HT303711B-O	2009	HT306451H	2009	HT800011F	1617	HX-50181	2009	IC743041	2058	IP20-0037	2058	IR106B3	1067
HT303711B0	2009	HT306681C	2016	HT800011G	1617	HY3045801C	1617	IC743042	1617	IP20-0038	2009	IR106B4	1067
HT303711C	2016	HT306962A-0	2016	HT800011H	1617	HZ5	565	IC743043	2023	IP20-0039	2009	IR106B41	1067
HT303720A	2016	HT306962A-O	2009	HT800011K	1617	HZ5(H)	565	IC743044	2009	IP20-0040	2009	IR106C1	1020
HT303721-0	1617	HT307321A	1617	HT800012F	2030	HZ5B	565	IC743046	2035	IP20-0041	2009	IR106C1-C	1020
HT303721D	1617	HT307321B-0	1617	HT800191H	2030	HZ5B-1	565	IC743047	562	IP20-0046	2023	IR106C2	1020
HT303730	1617	HT307321B-O	2009	HT3036201	2009	HZ5B-2	565	IC743048	1104	IP20-0054	1102	IR106C3	1020
HT303730A	1617	HT307322A	2016	HT3036210	1617	HZ5C	565	IC743049	1122	IP20-0060	1123	IR106C4	1020
HT303801	2016	HT307331B	1617	HT3037010	2016	HZ5C-1	565	IC743050	1123	IP20-0061	1122	IR106C41	1020
HT303801A	2016	HT307331C	2016	HT3037201	2016	HZ-5C1	565	IC743051	1122	IP20-0083	2020	IR106D1	1020
HT303801AO	2016	HT307331CO	2009	HT3037201A	2016	HZ5C1	565	ICR1005	1104	IP20-0086	565	IR106D2	1020
HT303801AO	2009	HT307331CO	2016	HT3037201B	2016	HZ5C1TD	565	ID100	1067	IP20-0110	2016	IR106D3	1020
HT303801B	2016	HT307341	2030	HT3037210	1617	HZ5C-2	565	ID101	1067	IP20-0120	1104	IR106D4	1020
HT303801B-0	2016	HT307341A	2030	HT3037210-O	1617	HZ5C-3	565	ID102	1067	IP20-0122	2009	IR106D41	1020
HT303801B0	2009	HT307341B	2009	HT3037210-C	2009	HZ6C2	561	ID103	1067	IP20-0145	1122	IR106F1	1067
HT303801B-O	2009	HT307341C-0	2009	HT3037310	2016	HZ6.2PB	561	ID104	1067	IP20-0159	2023	IR106F2	1067
HT303801B0	2009	HT307341C-O	2030	HT3038013-B	2016	HZ-9	562	ID105	1020	IP20-0161	705	IR106F3	1067
HT303801C	2016	HT307342B	2030	HT3073310	2009	HZ9	562	ID106	1020	IP20-0164	1114	IR106F4	1067
HT303801CO	2016	HT307342C	2009	HT3082810	2030	HZ9(H)	562	IDAZ824	561	IP20-0165	2009	IR106F41	1067
HT303801CO	2009	HT307720B	2016	HT6000210	2023	HZ-9A	562	IDAZ824A	561	IP20-0167	1104	IR106Q1	1067
HT30387100	2016	HT307721C	2016	HT8000710	1104	HZ9A	562	IDAZ824B	561	IP20-0179	2009	IR106Q2	1067
HT303941	2016	HT307721D	2016	HT8001210	2030	HZ-9B	562	IDAZ3398	565	IP20-0184	1122	IR106Q3	1067
HT303941A	2016	HT307902B	2020	HT8001310	2030	HZ9B	562	IDAZ3398A	565	IP20-0191	2009	IR106Q4	1067
HT303941B	2016	HT308281B	2009	HT8001610	2016	HZ9B-2	562	IDAZ3398B	565	IP20-0192	2023	IR106Q41	1067
HT304508K	2009	HT308281B0	2009	HT8001710	2016	HZ9B3	562	IDAZ3399	565	IP20-0203	561	IR106Y1	1067
HT304531	1617	HT308281C	2009	HT8001810	1617	HZ9BZ	562	IDAZ3399A	565	IP20-0205	1801	IR106Y1-C	1067
HT304531A	1617	HT308281D	2009	HT9000310	2041	HZ-9C	562	IDAZ3403	563	IP20-0212	2020	IR106Y2	1067
HT304531B	1617	HT308281G	2009	HT9000410-0	2041	HZ9C-2	562	IDAZ3403A	563	IP20-0213	2023	IR106Y3	1067
HT304531C	1617	HT308281H	2009	HT9000410-O	2041	HZ9C2	562	IDAZ3403B	563	IP20-0214	2009	IR106Y4	1067
HT304540AO	2016	HT308281O	2009	HT30373100	1617	HZ-9C3	562	IDAZ3403C	563	IP20-0216	1122	IR413	2055
HT304540AO	2009	HT308282A	2009	HT30387100	2016	HZ9C-3	562	IDAZ3404	564	IP20-0217	1123	IR1603	2020
HT304540B0	1617	HT308282A-0	2009	HT30733100	2016	HZ9H	562	IDAZ3404A	564	IP20-0231	2009	IRCS	1067
HT304540B0	2009	HT308282A-O	2009	HT30945120	2009	HZ9L	562	IDAZ3404B	564	IP20-0282	1122	IRC10	1067
HT304580	1617	HT308282B	2016	HT31909100	2009	HZ9.1PB	562	IE12Z5	563	IP20-0283	1123	IRC20	1067
HT304580A	1617	HT308291A	1617	HT32362280	2016	HZ11C25	563	IE40B	2058	IP20-0305	2035	IRF511	2072
HT304580B	1617	HT308291A-0	2016	HV0000105-0	1104	HZ-12	563	IE850	2009	IP20-0310	1801	IRF513	2072
HT304580C0	1617	HT308291A-O	1617	HV0000202	1123	HZ-12(A)	563	IGL78M05	1770	IP20-0323	2020	IRF523	2072
HT304580CO	2009	HT308291B	1617	HV0000302	2016	HZ12(A)	563	IGLA6458DF	038	IP100	1067	IRFE100	2035
HT304580K	1617	HT308291B-0	1617	HV0000705	1104	HZ-12(B)	563	IGLC4011	2411	IP101	1067	IRTR20	2023
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IR-TR53	2030	ITT895	2009	J1000-7447	1805	J241179	561	JD-5D1D	1104	JZ15C	564	K11	2035
IRTR53	2030	ITT920	1122	J1000-7490	1808	J241182	1122	JD5D1D	1104	K1A5	1104	K12	2035
IRTR-55	2017	ITT921	1122	J1090-NE555	1723	J241188	2016	JD-5D1Z	1104	K1B5	1104	K12-O(1-GATE)	2035
IRTR55	2017	ITT973	2023	J2441	1123	J241189	2016	JE90NF	2009	K1C5	1104	K13	2035
IRTR57	2020	ITT975	2009	J9680	2023	J241241	2020	JE1033B	2035	K1D5	1104	K14-0066-E	2058
IRTR-59	2041	ITT2001	1122	J9697	2023	J241245	1123	JE9011B	2035	K1E5	1104	K14-0066-12	2009
IRTR59	2041	ITT2002	1122	J20437	1104	J241251	2009	JE9011C	2016	K1F5	1104	K14-0066-13	2030
IRTR-61	2041	ITT3001	1122	J20438	563	J241252	2020	JE9011D	2009	K1G5	1104	K15	2035
IRTR61	2041	ITT3002	1102	J24262	561	J241253	2023	JE9011E	2009	K1H5	1104	K15-GR(1-GATE)	2035
IRTR-62	2009	ITT3003	1122	J24458	1617	J241255	2030	JE9011F	2009	K1K5	1114	K15-O(1-GATE)	2035
IRTR62	1617	ITT4090G	1101	J24561	2016	J241256	2030	JE9011G	1617	K1M5	1114	K16HA	2035
IRTR63	1617	ITT5059	1104	J24562	2016	J241259	2023	JE9011H	2009	K1.3G22/1A	1173	K17(2S)	2035
IRTR-64	2017	ITT5060	1102	J24563	2016	J241260	1104	JE9011I	2009	K1.3G22-1A	1171	K17-O	2035
IRTR-68	2051	ITT5061	1103	J24564	2009	J241275	026	JE9012D	2023	K1.3G22A	1104	K17-O(1-GATE)	2035
IRTR68	2051	ITT5062	1104	J24565	2009	J310249	1617	JE9012E	2023	K2A5	1104	K17-OR	2035
IRTR-70	2058	ITT7215	1122	J24567	1123	J310250	1617	JE9012F	2023	K2B5	1104	K17A	2035
IRTR70	2016	ITT7400N	1801	J24570	1104	J320020	1104	JE9012G	2023	K2C5	1104	K17B	2035
IRTR-71	2015	ITT7401N	1801	J24596	2016	J320041	1123	JE9012H	2023	K2CDP221B	1171	K17BL	2035
IRTR71	2016	ITT7404N	1802	J24624	1617	JA101	2023	JE9013	2009	K2D5	1104	K17GR	2035
IRTR76	2020	ITT7408N	1822	J24625	1617	JA101P	2023	JE9013D	2009	K2DP12	1104	K17O	2035
IRTR77	2027	ITT7447AN	1805	J24628	1123	JA101Q	2023	JE9013E	2009	K2E5	1104	K17R	2035
IRTR-8C	2015	ITT7490N	1808	J24630	1104	JA1050	2023	JE9013F	2009	K2F5	1104	K17Y	2035
IRTR80	2015	ITT330419N	1122	J24631	561	JA1050G	2023	JE9013G	2009	K2G	1104	K19	2035
IRTR-83	2016	ITT412142	1122	J24632	562	JA1050W	2023	JE9013H	2009	K2G5	1104	K19-14	2035
IRTR83	2016	ITTC4049BP	2449	J24635	2016	JA1200	2009	JE9014	2009	K2H5	1114	K19-BL	2035
IRTR86	1617	IX0069CE	2401	J24636	2016	JA1350	2009	JE9014A	2009	K2K5	1114	K19-GR	2035
IRTR87	2030	IX0638CE	1770	J24637	2016	JA1350A	2009	JE9014B	2009	K2M5	1114	K19-Y	2035
IRTR92	2020	J-05	1104	J24640	2023	JA1350B	2016	JE9014D	2016	K3	1123	K19A	2035
IRTR93	2055	J-1	1104	J24641	1617	JA1350W	2016	JE9015	2023	K3B5	1104	K19B	2035
IRTR-95	2016	J-2	1104	J24643	1123	JA1350Y	2016	JE9015A	2023	K3C5	1104	K19BB	2035
IRTR95	2016	J2-4570	1104	J24645	1104	JA-1555	1723	JE9015C	2023	K3D5	1104	K19BL	2035
IRTRFE100	2025	J-4	1104	J24647	1104	JA1690G	2009	JE9016	2016	K3F5	1104	K19FET	2035
IRW106A1	1067	J4-1000	1801	J24658	2009	JA7010	2009	JE9016D	2016	K3G5	1104	K19GB	2035
IRW106C1	1020	J4-1004	1802	J24701	2016	JA-H	2009	JE9016E	2016	K3H5	1114	K19GE	2035
IRW106Y1	1067	J4-1047	1805	J24752	1617	JA-KCDP	1114	JE9016F	2016	K3K5	1114	K19GR(2S)	2035
IS28	1067	J4-1090	1808	J24753	1617	JA-L	2009	JE9016G	2016	K3M5	1114	K19H	2035
IS-446D	1122	J4-1215	007	J24755	1122	JAM702C	1104	JE9016H	2016	K4-505	2023	K19K	2035
IS-1212	585	J4-1555	1723	J24756	1104	JB-00030	1104	JE9016I	2016	K4-506	1617	K19V	2035
ISV121	1122	J4-1600	1617	J24812	2016	JB00030	1144	JE9018D	2016	K4-507	1617	K19Y(2S)	2035
IT10D4K	1104	J4-1601	1114	J24813	2016	JB00032	1171	JE9018E	2016	K4-510	2016	K22Y	2035
IT22	1123	J4-1602	1144	J24814	2016	JB-BB1A	1104	JE9018F	2016	K4-525	2041	K23	2035
IT22A	1123	J4-1610	1122	J24817	2009	JC-00012	1104	JE9018G	2016	K4-550	1123	K23A(2S)	2035
IT22AM	1123	J4-1615	565	J24820	1123	JC-00014	1104	JE9018H	2016	K4-555	1104	K24	2035
IT22B	1123	J4-1619	561	J24832	2023	JC-00025	1104	JE9018I	2016	K4-557	1104	K24(1-GATE)	2035
IT23	1123	J4-1620	562	J24838	1123	JC-00028	1104	JE9100A	2009	K4-584	1067	K24C	2035
IT23A	1123	J4-1622	563	J24842	2009	JC-00032	1104	JE9112B	2023	K4-586(TRIAC)	1000	K24C(1-GATE)	2035
IT23G	1123	J4-1626	2009	J24843	2009	JC00032	1144	JE9112C	2023	K4-590	007	K24D	2035
IT235	1123	J4-1628	1617	J24844	2009	JC-00033	1104	JE9113C	2009	K4-632	2035	K24D(1-GATE)	2035
IT40	1122	J4-1630	1617	J24845	2009	JC-00035	1104	JF-1033	2035	K4-634	2035	K24DR	2035
IT108	2035	J4-1632	2023	J24846	2009	JC-00037	1104	JF1033	2035	K4A5	1104	K24DR(1-GATE)	2035
IT120	2009	J4-1636	2009	J24852	2016	JC-00042	1104	JF1033B	2035	K4B5	1104	K24E	2035
IT121	2009	J4-1640	2041	J24855	2009	JC-00044	1104	JF1033G	2035	K4C5	1104	K24E(1-GATE)	2035
IT122	2016	J4-1644	2016	J24863	2016	JC-00045	1104	JF1033S	2035	K4D5	1104	K24F	2035
IT243	565	J4-1645	2023	J24871	1104	JC-00047	1101	JL-40A	1122	K4E5	1104	K24F(1-GATE)	2035
IT261	1123	J4-1649	2030	J24874	2009	JC-00049	1102	JL40A	1122	K4F5	1104	K24G	2035
IT262	1123	J4-1650	2023	J24875	2016	JC00049	1104	JL41A	1104	K4G5	1104	K24G(1-GATE)	2035
IT263	1123	J4-1654	2020	J24877	1104	JC00050	1104	JL41AM	1104	K4H5	1114	K25	2035
IT918	2016	J4-1664	2020	J24878	2016	JC-00051	1104	JM40	1122	K4K5	1114	K25C	2035
IT918A	2016	J4-1710	2035	J24903	2016	JC-00055	1102	JM401	1122	K4M5	1114	K25D	2035
IT929	2016	J4-1711	2035	J24904	2016	JC-00059	1114	JNJ61673	2035	K5A5	1104	K25E	2035
IT930	2016	J4-1725	1067	J24905	2016	JC-10D1	1123	JPS75005	1123	K5B5	1104	K25ET	2035
IT2218	2009	J4-1730	1000	J24906	2009	JC501	2009	JPS75995	1123	K5C5	1104	K25F	2035
IT2219	2009	J4-1730(TRIAC)	1080	J24907	2009	JC501-0	2009	JSP7001	2058	K5D5	1104	K25G	2035
IT2221	2009	J-6	1104	J24909	2009	JC501P	2009	JSP7001B	2009	K5E5	1104	K30-O(1-GATE)	2035
IT2222	2009	J-8	1114	J24911	1123	JC501Q	2009	JSP7005	2016	K5F5	1104	K31C(2S)	2035
ITC103-1	1067	J-10	1114	J24912	1122	JC501R	2009	JSP7006	2016	K5G5	1104	K32	2035
ITC103-5	1020	J100	1104	J24913	1123	JC-D516E	1104	JT-1601-40	1617	K5H5	1114	K32B	2035
ITC103-6	1020	J107	2016	J24914	1123	JC-K505	1104	JT-E1014	1123	K5K5	1114	K33	2035
ITC918A	2016	J108	2016	J24915	2016	JCN1	1104	JT-E1024D	1104	K5M5	1114	K33D	2035
ITE4416	2035	J139A	1617	J24916	2009	JCN2	1104	JT-E1031	1123	K6	1123	K33E(2S)	2035
ITH61	114	J187	2016	J24920	1104	JCN3	1104	JT-E1064	1104	K6A5	1114	K33F(2S)	2035
ITS5817	1141	J241	1123	J24921	2016	JCN4	1104	JZ6.2	561	K6B5	1114	K33H	2035
ITS5818	1141	J242	1123	J24923	2016	JCN5	1104	JZ6.2A	561	K6G5	1114	K34	2035
ITT33	1122	J243	1123	J24932	2016	JCN6	1104	JZ6.2B	561	K6H5	1114	K35	2035
ITT44	1122	J304	2035	J24933	2016	JCN7	1114	JZ6.2C	561	K7A5	1114	K35(1-GATE)	2035
ITT73N	1122	J308	2035	J24935	1104	JC-SD-1X	1104	JZ6.2D	561	K7B5	1114	K35-O	2035
ITT102	1123	J309	2035	J24939	1104	JC-SD-1Z	1104	JZ9.1	562	K7C5	1114	K35-O(1-GATE)	2035
ITT142	1122	J623	2016	J24940	1104	JC-SD1Z	1104	JZ9.1A	562	K7G5	1114	K35-1	2035
ITT181-1	1122	J624	2016	J41642	2041	JC-SG005	1104	JZ9.1B	562	K7H5	1114	K35-1(1-GATE)	2035
ITT200	1122	J626	2016	J41645	2023	JC-V03C	1104	JZ9.1C	562	K7K5	1114	K35-2	2035
ITT301	1123	J627	2016	J101183	1104	JCV-2	1104	JZ12	563	K7M5	1114	K35-2 1-GATE	2035
ITT350	1104	J629	2016	J241054	2009	JCV2	1104	JZ12A	563	K8A5	1114	K35A	2035
ITT413	1122	J630	2016	J241099	2009	JCV-3	1104	JZ12B	563	K8B5	1114	K35A(1-GATE)	2035
ITT417	563	J685	1123	J241100	1104	JCV3	1104	JZ12C	563	K8G5	1114	K35BL	2035
ITT600	1122	J961B(G.E.)	1617	J241102	1104	JCV7	1114	JZ15	564	K8H5	1114	K35BL(1-GATE)	2035
ITT601	1122	J1090-7400	1801	J241142	1104	JD-00040	1104	JZ15A	564	K8K5	1114	K35C	2035
ITT718	1123	J1090-7444	1802	J241177	2016	JD-BB1A	1104	JZ15B	564	K8M5	1114	K35C(1-GATE)	2035

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K35GN	2035	K107-2	2035	K8532799	1104	KD2103	1104	K52047A	565	KSD1052	2041	KTD8800	2020
K35GN(1-GATE)	2035	K107-4	2035	K8533058-1	1104	KD2104	1104	K52047B	565	KSD1053	2041	KTR0710C	2009
K35R	2035	K112D	1101	KA1Z25	2030	KD2118	2030	K52051A	565	KSD1054	2041	KTR0815C	2009
K35R(1-GATE)	2035	K115J511-2	1123	KA562-Y	2023	KD2119	2016	K52051B	565	KSD1055	2041	KTR0839C	2009
K35Y	2035	K118J966-1	1101	KA1015-O	2023	KD2503	561	K52062A	561	KSD1056	2041	KTR1687C	2058
K35Y(1-GATE)	2035	K118J966-2	1101	KA4559	2035	KD2504	562	K52062B	561	KSD1057	2041	KTTA1015O	2023
K37	2035	K118J966-3	1101	KB102	1122	KD2505	563	K52091A	562	KSD1058	2041	KX-1	1122
K37H	2035	K118J966-4	1101	KB-165	1122	KD5000	2016	K52091B	562	KSD2201	2041	KZ62A	561
K40	2035	K118J966-4	1101	KB-182	1104	KDD-0013	1123	K52120A	563	KSD2202	2041	KZ91A	562
K40-3	2035	K119	2035	KB265A	1122	KDD0015	562	K52120B	563	KSKE12C500	1114	L05-E	1114
K40A	2035	K120	2062	KB8339	1627	KDD0032	1104	K52150A	564	KSKE40C200	1104	L1/2H	1122
K40B	2035	K122D	1101	KB8416	2009	KDD0041	1122	K52150B	564	KSKE40C500	1104	L1/3H	1122
K40C	2035	K152	2035	KBP-005	1171	KD51553	1122	KS20967-L1	1801	KSKE125C200	1114	L3/2H	1104
K40C(JAPAN)	2035	K152-3	2035	KBP005	1171	KD51554	1122	KS20967-L2	1802	KT218	2009	L4	2016
K40D	2035	K152LA	2035	KBP01	1171	KD51555	1122	KS21282-L1	1822	KT1815-GR	2009	L5	2016
K41	2035	K168D	2035	KBP04	1173	KE-262	1104	KS4A95Y	2023	KTA473	2027	L6	2016
K41C	2035	K168F	2035	KBPC10-005	1185	KE3684	2062	KS4539	2023	KTA473-O	2027	L6/2H	1104
K41D	2035	K170	2035	KBPS-005	1101	KE3685	2062	KS4539-O	2023	KTA562(Y)	2023	L7	2016
K41E	2035	K192	2035	KCO-8CP	1104	KE3687	2062	KS4539-O	2023	KTA562-O	2023	L8/2H	1104
K41E1	2035	K194	2035	KCO-8CP11/1 + 12/1	1104	KE4220	2062	KS4539-Y	2023	KTA562-TM	2023	L32H	1104
K41F	2035	K195H	2062	KC06E11/8	1104	KE4416	2035	KS4539Y	2023	KTA562-Y	2023	L62H	1104
K42	2035	K196R	2035	KC08C11/8	1104	KE5103	2062	KS4542-O	2023	KTA562-O	2023	L78M05	1770
K42(2S)	2035	K197	2035	KC08C11/10	1104	KE5105	2035	KS4542-O	2023	KTA562TM	2023	L78M12	1771
K42-EM1	2035	K197YC	2035	KC08C21/5	1104	KE41007	1104	KS4542Y	2023	KTA562TM-O	2023	L78M12-RA	1771
K42-EM2	2035	K197YD	2035	KC08C22/19	1104	KE41054	2009	KS4562TM	2023	KTA562TM-O(TA)	2023	L78M12CV	1771
K43	2035	K197YE	2035	KC08C215	1104	KE41055	2009	KS4642-O	2023	KTA562TM-Y	2023	L78M12RL	1771
K43-3	2035	K200	1104	KC08C221	1104	KE41959	1123	KS4642-O	2023	KTA562TMY	2023	L78N12	1771
K43-4	2035	K212	2062	KC08C1110	1104	KE46109	1122	KS4642-Y	2023	KTA562TM-Y-O	2023	L78N12-RA	1771
K43-OR	2035	K212AE	2062	KC08C2219	1171	KE46146	2009	KS4642-O	2023	KTA562Y	2023	L82H	1114
K43A	2035	K212E	2062	KCO911/8	1104	KE46338	2009	KS4708	2023	KTA950-O	2023	L123CB	1740
K43B	2035	K304	2035	KCO6911	1104	KE46465	1122	KS4708-O	2023	KTA950-Y	2023	L842	2016
K43C	2035	K882	1123	KCO-8CP22/1	1171	KIA7205AP	705	KS4708-Y	2023	KTA950Y	2023	L4000KS	1000
K43D	2035	K1616	1101	KCO-8CP	1104	KIA7205P	705	KS4708Y	2023	KTA1015	2023	L7812CV	1771
K43E	2035	K1616AC	1101	KCO-8CP11	1104	KLH704	2009	KS4733	2023	KTA1015(O)	2023	L7815CV	1772
K43F	2035	K1617	1101	KCO-8CP11/1	1104	KLH1422	2009	KS4733(Y)	2023	KTA1015(Y)	2023	L-612099	1822
K43H	2035	K1617AC	1101	KCO-8CP11/1 + 121Y	1104	KLH4567	1104	KS4733-O	2023	KTA1015-O	2023	LA-74	075
K43J	2035	K2001	2016		1104	KLH4577	1104	KS4733-O	2023	KTA1015-Y	2023	LA300	1104
K43K	2035	K2070	2016	KCO-8CP12/1	1104	KLH4746	1104	KS4733-Y	2023	KTA1015A	2023	LA600	1104
K43L	2035	K2071	2016	KC1.3C	1104	KLH4763	1122	KS4733Y	2023	KTA1015O	2023	LA800	1104
K43M	2035	K2072	2016	KC1.3C3X11/1	1104	KLH4792	2016	KS4735-O	2023	KTA1015Y	2023	LA6458D	038
K43N	2035	K2073	2016	KC1.3C22/1	1104	KM917E	2009	KS4735-O	2023	KTA1015Y	2023	LA6458DF	038
K43O	2035	K2109	2016	KC1.3G	1104	KM917F	2009	KSC815	2009	KTC200-Y	1617	LA4300	1104
K43P	2035	K2110	2016	KC1.3G12/1X2	1104	KM917G	2009	KSC815-O	2009	KTC200Y	1617	LA600	1104
K43Q	2035	K2111	2016	KC1.3G22/1A	1104	KM918E	2016	KSC815-O	2009	KTC380-O	2009	LA800	1104
K43Y	2035	K2112	2016	KC2AP22/1B	1171	KM918F	2016	KSC815-OY	2009	KTC380TM-O	2009	LA800	1104
K44	2035	K2113	2016	KC2AP221B	1171	KN2222	2009	KSC815-Y	2009	KTC382	2058	LB3000	1801
K44C	2035	K2114	2016	KC2BP22/1B	1104	KNL8251LA	1617	KSC815-Y	2009	KTC388A	2009	LB3006	1802
K44D	2035	K2115	2016	KC2D22/1	1171	KOS25201-1	1123	KSC815Y	2009	KTC388A-TM	2009	LB3150	1808
K47(2S)	2062	K2116	2016	KC2D221	1104	KOS25201-2	1123	KSC838-O	2009	KTC388ATM	2009	LBA-01Z1	1171
K49(2S)	2035	K2117	2016	KC2D21	1104	KOS25201-20	2016	KSC838-O	2009	KTC388ATMFA	2009	LBA-02Z1	1171
K49(2S)	2035	K2118	2016	KC2DP11/1	1104	KOS25671-21	2016	KSC945	2009	KTC1173	2020	LBA-04	1173
K49(2S)	2035	K2119	2016	KC2DP12/1	1104	KOS25671-23	2016	KSC945(Y)	2009	KTC1173-O	2020	LBA-04Z1	1173
K49H(2S)	2035	K2120	2016	KC2DP12/1N	1104	KP804	1173	KSC945-O	2016	KTC1815	2009	LC0.09M1115	1104
K49H1(2S)	2035	K2121	2016	KC2DP12/2	1104	KPG6682	1617	KSC945-OY	2009	KTC1815(Y)	2009	LC4001B	2401
K49H2(2S)	2035	K2122	2016	KC2DP22/1	1104	KR-162	1122	KSC945-Y	2009	KTC1815-BL	2009	LC4001BP	2401
K49J(2S)	2035	K2123	2016	KC2DP22/1B	1171	KR8417	2009	KSC945G	2009	KTC1815-D	2009	LC4011	2411
K49M	2035	K2124	2016	KC2DP121N	1104	KR-Q0005	1123	KSC945Y	2009	KTC1815-GR	2009	LC4011B	2411
K52	1123	K2125	2016	KC2DP122	1104	KR-Q1013	1617	KSC1008	2009	KTC1815-GRFA-1	2009	LC4013B	2413
K54	2035	K2126	2016	KC2DP221	1104	KS-05	1104	KSC1008(Y)	2009	KTC1815-O	2009	LC.09M	1104
K54B	2035	K2127	2016	KC2DP221B	1104	KS05	1104	KSC1008-O	2030	KTC1815-O(TA)	2009	LC.09M11/15	1104
K54C	2035	K2501	2016	KC2DP221C	1171	KS047A	565	KSC1008-O	2009	KTC1815-Y	2009	LD34R	1122
K55	2035	K2502	2016	KC2G	1122	KS047B	565	KSC1008-Y	2009	KTC1815-Y(TA)	2009	LDA400	2009
K55C	2035	K2503	2016	KC2G11/1	1104	KS051A	565	KSC1008Y	2009	KTC-1815BL	2009	LDA400MP	2009
K55CD	2035	K2509	2016	KC2G11/1 + 12/1	1104	KS062A	561	KSC1187	2009	KTC1815BL	2009	LDA401	2009
K55D	2035	K2601C	2016	KC2G11/1&12/1	1104	KS34A	565	KSC1187(R)	2009	KTC1815D	2009	LDA401MP	2009
K55DE	2035	K2602C	2016	KC2G12/1	1104	KS34AF	565	KSC1187-O	2058	KTC1815GR	2009	LDA402	2009
K55R	2035	K2603C	2016	KC13C221	1104	KS34B	565	KSC1187-O	2058	KTC-1815Y	2009	LDA404	2030
K60	1123	K2604	2016	KC388A	2009	KS34BF	565	KSC1187-R	2058	KTC1815Y	2009	LDA405	2030
K61	2035	K2604C	2016	KC1322/1	1104	KS35A	565	KSC1187C	2058	KTC1923-O	2058	LDA406	2030
K61GR	2035	K2615	2016	KC1815-GR	2009	KS35AF	565	KSC1187O	2058	KTC1959-O	2009	LDA408	2030
K61Y	2035	K2616	2016	KC1815-Y	2009	KS37A	561	KSC1187R	2058	KTC1959-Y	2009	LDA410	2016
K68	2035	K2857C	2016	KC1959-O	2009	KS37AF	561	KSC1189R	2009	KTC1959Y	2009	LDA454	2023
K68-L	2035	K2857P	2016	KCDP12-1	1114	KS41A	562	KSC1674	2016	KTC2120(Y)	2009	LDA455	2023
K68-M	2035	K3683C	2016	KCO6E11/8	1144	KS41AF	562	KSC1674(R)	2016	KTC2120-O	2009	LDS200	2030
K68A	2035	K3683P	2016	KCO8C11/8	1144	KS44A	563	KSC1674-O	2058	KTC2120-Y	2009	LDS201	2030
K68AL	2035	K3880C	2016	KCO8C21/5	1144	KS44AF	563	KSC1674-O	2058	KTC2120Y	2009	LDS206	2009
K68A-M	2035	K3880P	2016	KCO8C22/19	1144	KS44B	563	KSC1674O	2058	KTC9013A	2009	LDS207	2016
K68AM	2035	K4002	2016	KCO-8CP11/1-12/1	1104	KS44BF	563	KSC1674R	2016	KTC9014(C)	2009	LDS210	2009
K68L	2035	K4586	1000	KCO911/8	1144	KS46	564	KSC1675	2009	KTC9014A	2009	LDS257	2023
K68M	2035	K4634	2035	KCO-8CP11	1104	KS46AF	564	KSC1675-O	2009	KTC9014A(C)	2009	LDZ70/6A2	561
K68Q	2035	K5001	2016	KCO-8CP11	1104	KS46BF	564	KSC1675-O	2009	KTC9014A(D)	2009	LDZ70/9A1	562
K83	2035	K5002	2016	KCO-8CP11/1 + 12/1	1104	KS5120A	563	KSC1675-Y	2009	KTC9014C	2009	LF353	1715
K104	2035	K5003	2016	KD27	1123	KS120B	563	KSC1675R	2009	KTC9015A	2023	LF353N	1715
K104H	2035	K5012	2009	KD103A	1122	KS150A	564	KSC1675Y	2009	KTD880(GR)	2020	LFRC-27-15	1104
K106	2035	K5042	2023	KD103B	1122	KS150B	564	KSC2120Y	2009	KTD880(Y)	2020	LID929	2016
K107	2035	K1033445-22C	1101	KD300A	1122	KS512A	563	KSD227-O	2009	KTD880-O	2020	LID930	2016
K107-1	2035	K1033445-22E	1101	KD2102	1617	KS515A	564	KSD807M	2055	KTD880-Y	2020	LJ-152	2023
								KSD1051	2041	KTD880Y	2020	LJ1	

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LJ152(0)	2073	LM741CJ	007	LPM4.7-20	565	LZZ1-9.1	562	M3D5	1114	M21CQ	1067	M180B	1104
LJ152G	2023	LM741CN	007	LPM4.7A	565	LZZ1-12	563	M3D9	1114	M21C-R	1067	M180D	1102
LL-2	1104	LM741EN	007	LPM5.1	565	LZZ1-15	564	M3E1	1114	M21CR	1067	M180G	1103
LL2	1104	LM741N	007	LPM5.1-20	565	LZZ1-115G	563	M3E5	1114	M21CY	1067	M100J	1104
LM555CN	1723	LM1090E	2009	LPM5.1A	565	M-0027	1104	M3E9	1114	M22	1104	M100K	1114
LM207N	007	LM1090F	2009	LPM6.2	561	M0027	1104	M3F1	1114	M23C	1067	M100M	1114
LM224AD	1711	LM1090G	2009	LPM6.2-20	561	M012	2016	M3F5	1114	M23CA	1067	M102	1114
LM224AF	1711	LM1110A	2016	LPM6.2A	561	M024	2016	M3F9	1114	M24	2009	M124J779-1	1104
LM224AJ	1711	LM1110B	2016	LPM9.1	562	M0Z	1104	M3G	1000	M24A	2009	M128J422	1104 N5
LM224AN	1711	LM1117	2016	LPM9.1-20	562	M1-152	1114	M3G1	1114	M24B	2009	M128J422-1	1101
LM224D	1711	LM1117C	2016	LPM9.1A	562	M1-301	1122	M3G5	1114	M25	2009	M128J753	1101
LM224J	1711	LM1117D	2009	LPM11	563	M1A1	1114	M3G9	1114	M25A	2009	M128J753-1	1101
LM224N	1711	LM1120B	2016	LPM12	563	M1A5	1114	M3H1	1114	M25A2	2009	M132	1104
LM239	1712	LM1120C	2016	LPM12-20	563	M1A9	1114	M3H5	1114	M25B	2009	M140-1	2016
LM239A	1712	LM1123H	2016	LPM12A	563	M1B1	1114	M3K1	1114	M25B2	2009	M140-3	2009
LM239AJ	1712	LM-1129	2009	LPM15	564	M1B5	1114	M3K5	1114	M26	1122	M150	1104
LM239AN	1712	LM-1130	2009	LPM15-20	564	M1B9	1114	M3K9	1114	M34A	1123	M150-1	1122
LM239J	1712	LM-1132	2009	LPM15A	564	M1C1	1114	M3M1	1114	M42	1104	M-152R	1114
LM239N	1712	LM-1133	2009	LPZT12	563	M1C5	1114	M3M5	1114	M51	1123	M172A	1104
LM317KC	1778	LM1133	2009	LPZT15	564	M1C9	1114	M3M9	1114	M54	2009	M-204B	1104
LM317T	1778	LM1138	2058	LR5GZ61	1114	M1D1	1114	M4A1	1114	M54A	2009	M104B	1104
LM324	1711	LM1138E/F	2058	LR47CH	565	M1D5	1114	M4A5	1114	M54B	2009	M166-1	2055
LM324A	1711	LM1138G/H	2058	LR51CH	565	M1D9	1114	M4A9	1114	M54BLK	2009	M184	2009
LM324AD	1711	LM1138G/H	2016	LR51D	565	M1E1	1114	M4B1	1114	M54BLU	2009	M180	1104
LM324AF	1711	LM1138H/I	2058	LR51E	565	M1E5	1114	M4B5	1114	M54BRN	2009	M180A	1104
LM324AJ	1711	LM-1147	2009	LR56CH	565	M1E9	1114	M4B9	1114	M54D	2009	M180B	1104
LM324AN	1711	LM-1148	2009	LR62CH	561	M1F1	1114	M4B31	1104	M54E	2009	M180C	1104
LM324D	1711	LM-1149	2023	LR62D	561	M1F5	1114	M4B31-13	1104	M54GRN	2009	M180D	2030
LM324J	1711	LM-1150	2023	LR62E	561	M1F9	1114	M4B41	1114	M54ORN	2009	M180E	2016
LM324N	1711	LM-1151	2023	LR91CH	562	M1G1	1114	M4B41-13	1114	M54RED	2009	M180F	1171
LM339	1712	LM-1153	2023	LR91D	562	M1G5	1114	M4C1	1114	M54WHT	2009	M180GHT	1104
LM339A	1712	LM-1155	2009	LR91E	562	M1G9	1114	M4C5	1114	M54YEL	2009	M180H	2016
LM339AJ	1712	LM-1158	1104	LR120CH	563	M1H	1104	M4C9	1114	M60	1123	M180I	2016
LM339AN	1712	LM-1159	1122	LR120D	565	M1H1	1114	M4D1	1114	M62	1104	M180J	2016
LM339D	1712	LM1159	1122	LR120E	563	M1H5	1114	M4D5	1114	M65A	2023	M180K	2023
LM339DP	1712	LM-1160	1104	LR150CH	564	M1H9	1114	M4D9	1114	M65B	2023	M180L	1104
LM339J	1712	LM1160	1104	LR150D	564	M1K1	1114	M4E1	1114	M65C	2023	M180M	1104
LM339N	1712	LM1403	2009	LR150E	564	M1K5	1114	M4E9	1114	M65D	2023	M180N	1104
LM340-5KC	1770	LM1404	2023	LRQB49	2009	M1K9	1114	M4F1	1114	M65E	2023	M180O	1104
LM340-5U	1770	LM1415-6	1617	LRR-50	1104	M1M1	1104	M4F5	1114	M65F	2023	M180P	2009
LM340-12KC	1771	LM1415-7	1617	LRR-100	1104	M1M5	1114	M4F9	1114	M67	1104	M180Q	1104
LM340-12U	1771	LM1458	036	LRR-200	1104	M1M9	1114	M4G1	1114	M67A	1104	M180R	1104
LM340-15U	1772	LM1458M	038	LRR-300	1104	M15-12795B	2041	M4G5	1114	M67B	1104	M180S	1104
LM340AT5.0	1770	LM1458N	038	LRR-400	1104	M1X	2030	M4G9	1114	M67C	1104	M180T	1104
LM340T	1770	LM1501H	2030	LRR-500	1104	M1Z	1102	M4H1	1114	M68	1104	M180U	1104
LM340T-5	1770	LM1540	2009	LRR-1000	1104	M2A1	1114	M4H5	1114	M68A	1104	M180V	1104
LM340T-5.0	1770	LM1540C	2016	LRR-2000	1104	M2A5	1114	M4H9	1114	M68B	1104	M180W	1104
LM340T5.0	1770	LM1566F	2009	LRR-3000	1104	M2A9	1114	M4HZ	1104	M68C	1104	M180X	1104
LM340T-5.0R	1770	LM1614D	2009	LRR-4000	1104	M2B	1114	M4K1	1114	M69	1104	M180Y	1104
LM340T-12	1771	LM1614M	2009	LRR-5000	1104	M2B1	1114	M4K5	1114	M69A	1104	M180Z	1104
LM340T12	1771	LM1795	2023	LRR500	1104	M2B5	1114	M4K9	1114	M69B	1104	M180AA	1104
LM340T-12R	1771	LM1818	2009	LS-0095-AR-213	2016	M2B9	1114	M4M1	1114	M69C	1104	M180AB	1104
LM340T-15	1772	LM-1162	1104	LS3705	2009	M2C1	1114	M4M5	1114	M70	1104	M180AC	1104
LM340T15	1772	LM1162	1104	LS5484	2035	M2C5	1114	M4M9	1114	M70A	1104	M180AD	1114
LM340T-15R	1772	LM2152	2009	LS5485	2035	M2C9	1114	M4Z4.7	565	M70B	1104	M180AE	1114
LM340U5	1770	LM-2589	2023	LS7210	1307	M2D1	1114	M4Z4.7-20	565	M70C	1104	M180AF	1104
LM340U12	1771	LM2682	2009	LS75753	041	M2D5	1114	M4Z4.7A	565	M71	1104	M180AG	1104
LM340U15	1772	LM2901J	1712	LT1016(E)	2009	M2D9	1114	M4Z5.1	565	M71A	1104	M180AH	1104
LM341-5	1770	LM2901N	1712	LT1016D	2016	M2E1	1114	M4Z5.1-20	565	M71B	1104	M180AI	1104
LM341-12	1771	LM2902	1711	LT1016E	2016	M2E5	1114	M4Z5.1A	565	M71C	1104	M180AJ	1104
LM341-15	1772	LM2902J	1711	LT1016H	2058	M2E9	1114	M4Z6.2	561	M72	1114	M180AK	1114
LM341P-5.0	1770	LM2902N	1711	LT1016I	2016	M2F1	1114	M4Z6.2-20	561	M72A	1114	M180AL	1114
LM341P5.0	1770	LM3302	1712	LT1016I,H	2009	M2F5	1114	M4Z6.2A	561	M72B	1114	M180AM	1114
LM341P-12	1771	LM3302J	1712	LT1016T,H	2009	M2F9	1114	M4Z9.1	562	M72C	1114	M180AN	1114
LM341P12	1771	LM3302N	1712	LTE1016	2058	M2G1	1114	M4Z9.1-20	562	M72D	1114	M180AO	1114
LM341P-15	1772	LM3862M	1731	LTE1016(G.E.)	2016	M2G5	1114	M4Z9.1A	562	M73	1114	M180AP	1114
LM341P15	1772	LM3909	1705	LTH1016	2058	M2G9	1114	M4Z12	563	M73A	1114	M180AQ	1114
LM342P12	1771	LM7812	1771	LTH1016(G.E.)	2016	M2GH1	1114	M4Z12-20	563	M73B	1114	M180AR	1114
LM342P15	1772	LM8050I/J	2009	LVA47A	565	M2H5	1114	M4Z12A	563	M73C	1114	M180AS	2009
LM383	703	LM9016F	2016	LVA51A	565	M2H9	1114	M4Z15	564	M82	1114	M180AT	2009
LM383AT	703	LM9018G/F	2009	LVA62A	561	M2K1	1114	M4Z15-20	564	M91	2016	M180AU	2009
LM383T	703	LMP15	564	LVA91A	562	M2K5	1114	M4Z15A	564	M91A	2009	M180AV	2009
LM386	703	LMP15-20	564	LVA150	565	M2K9	1114	M4Z30	562	M91A01	1104	M180AW	2009
LM386A	703	LMP15A	564	LVA162	561	M2M1	1114	M6HZ	1104	M91A02	1104	M180AX	2009
LM386LM	703	LN21RCPHL	041	LVA347A	565	M2M5	1114	M6.2Z	561	M91A03	1104	M180AY	2009
LM386N	1731	LNA347	565	LVA351A	565	M2M9	1114	M7	2023	M91A06	1114	M180AZ	2009
LM386N-1	1731	LNA347A	565	LVA362A	561	M2.5A	1114	M8HZ	1114	M91B	2009	M180BA	1617
LM386N-3	1731	LNA362	561	LVA391A	562	M3A1	1114	M9Z	562	M91BGRN	2009	M180BB	2009
LM555	1723	LNA362A	561	LVA450	565	M3A5	1114	M12	1104	M91C	2009	M180BC	1617
LM555C	1723	LNA391	562	LVA1047A	565	M3A9	1114	M12Z	563	M91CM624	2009	M180BD	2009
LM555CJ	1723	LNA391A	562	LVA1051A	565	M3B1	1114	M14	1104	M91D	2009	M180BE	2009
LM555CN	1723	LP1H	1104	LVA1062A	561	M3B5	1114	M15Z	564	M91E	2009	M180BF	2009
LM555CN#1	1723	LP2H	1104	LVA1091A	562	M3B9	1114	M21C	1067	M91F	2009	M180BG	2009
LM555CN#2	1723	LP3H	1104	LZ4.7	565	M3C1	1114	M21C/Q	1067	M91FM624	2009	M180BH	2009
LM586CN	1728	LP4H	1104	LZZ1-4.7	565	M3C5	1114	M21C/R	1067	M95	1123	M180BI	2009
LM723CN	1740	LP100	1122	LZZ1-5.1	565	M3C9	1114	M21C5	1067	M100	2035	M180BJ	2009
LM741	007	LPM4.7	565	LZ71-6.2	561	M3D1	1114	M21CA	1020	M100A	1101	M180BK	1617

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M787	1617	M4918	2030	M53247	1805	MA-900	1123	MAC77-6	1000	MB202	1122	MBCZF12D10	563
M787BLU	2009	M4919	2030	M53247P	1805	MA1047	565	MAC228-6	1000	MB244	1104	MBCZG4.7D	565
M791	2009	M4926	2009	M53290	1808	MA1047A	565	MAC29.1D	562	MB257	1104	MBCZG4.7D5	565
M818	2009	M4933	2009	M53290P	1808	MA1047H	565	MAC29.1D5	562	MB269	1104	MBCZG4.7D10	565
M818WHT	2009	M4937	2009	M75543-1	2020	MA1051	565	MAC29.1D10	562	MB270	1104	MBCZG5.1D	565
M822	2009	M4941	2009	M75545-1	2016	MA1062	561	MAC2A9.1D	562	MB400	1801	MBCZG5.1D5	565
M822A	2009	M4952	2009	M75547-1	2016	MA1062H	561	MAC2A9.1D5	562	MB416	1801	MBCZG5.1D10	565
M822A-BLU	2009	M4953	2009	M75547-2	2016	MA1062LF	561	MAC2A9.1D10	562	MB418	1802	MBCZG6.2D	561
M822B	2009	M4970	2009	M100412	1104	MA1062M	561	MAC2A12D	563	MB513AR	1122	MBCZG6.2D5	561
M823	2009	M7003	1617	M105064	1101	MA1091	562	MAC2A12D5	563	MB601	1801	MBCZG6.2D10	561
M823B	2009	M7006	2009	M106379	1104	MA1110(DIODE)	1104	MAC2A12D10	563	MB4204	1712	MBCZG9.1D	562
M823WHT	2009	M7014	1617	M112826	1104	MA1120	563	MAC2A15D	564	MB4204C	1712	MBCZG9.1D5	562
M827	2009	M7015	1617	MA0404	2023	MA1120-L	563	MAC2A15D5	564	MB6356	562	MBCZG9.1D10	562
M827BRN	2009	M7033	1617	MA0414	2023	MA1120A	563	MAC2A15D10	564	MB84001B	2401	MBCZG12D	563
M828GRN	2009	M8105	1617	MA1Z	1104	MA1120L	563	MACZB9.1D	562	MB84001BM	2401	MBCZG12D5	563
M829A	2023	M8221	2009	MA2	1104	MA1150	564	MACZB9.1D5	562	MB84011	2411	MBCZG12D10	563
M829B	2023	M8222	1104	MA8	1123	MA1150A	564	MACZB9.1D10	562	MB84011-U	2411	MBR115P	1101
M829C	2023	M8399	1104	MA21	1123	MA1701	1104	MACZB12D	563	MB84011B	2411	MC010	1104
M829D	2023	M8489	1122	MA23(B)	1123	MA1702(DIODE)	1122	MACZB12D5	563	MB84011BM	2411	MC015	1104
M829E	2023	M8489-A	1123	MA47	1123	MA1703(DIODE)	1122	MACZB12D10	563	MB84011M	2411	MC020	1102
M829F	2023	M8489A	1122	MA50	1104	MA1704(DIODE)	1122	MACZB15D	564	MB84011U	2411	MC020A	1102
M833	2023	M8489A	1122	MA51A	1123	MA2051	565	MACZB15D5	564	MB84011V	2401	MC021	1101
M847	2009	M8513(LAFAYETTE)	1122	MA57	1122	MA2062	561	MACZB15D10	564	MB84013B	2413	MC021A	1101
M847BLK	2009	M8513-0	1122	MA90	1123	MA2091	562	MACZC9.1D	562	MB84013BM	2413	MC022	1104
M924	2009	M8513A	1122	MA101	1104	MA2120	563	MACZC9.1D5	562	MB84017B	2417	MC022A	1104
M1400-1	2016	M-8513R	1123	MA102	1104	MA2150	564	MACZC9.1D10	562	MB84017BM	2417	MC023	1102
M2497	1104	M8515	562	MA110	1104	MA3062	561	MACZC12D	563	MB84049B	2449	MC023A	1102
M3016	1104	M8555	1122	MA111	1104	MA3062L	561	MACZC12D5	563	MB84049BM	2449	MC025	1104
M3519	2009	M8569	1122	MA150	1122	MA3091	562	MACZC12D10	563	MBCZA9.1D	562	MC030	1103
M4001BP	2401	M8640E(C-M)	1122	MA150DD	1122	MA3091L	562	MACZC15D	564	MBCZA9.1D5	562	MC030A	1102
M4011BP	2411	M8640E(DIO)	1122	MA150FV	1122	MA3120	563	MACZC15D5	564	MBCZA9.1D10	562	MC030B	1104
M4442	2023	M9010	2016	MA150LF	1122	MA3120L	563	MACZC15D10	564	MBCZA12D	563	MC035	1104
M4444	2009	M9032	2016	MA150TA	1122	MA3150	564	MACZD9.1D	562	MBCZA12D5	563	MC040	1103
M4465	2009	M9095	1617	MA150TA5	1122	MA3150L	564	MACZD9.1D5	562	MBCZA12D10	563	MC040A	1103
M4525	2023	M9134	2017	MA150TP	1122	MA4047	565	MACZD9.1D10	562	MBCZA15D	564	MC050	1104
M4590	2023	M9138	2030	MA150WK	1122	MA4047(H)	565	MACZD12D	563	MBCZA15D5	564	MC050A	1104
M4594	2009	M9159	1617	MA151A	1122	MA4047(H)-Y	565	MACZD12D5	563	MBCZA15D10	564	MC060	1104
M4624	2009	M9170	1617	MA151K-TW	1122	MA4047(M)	565	MACZD12D10	563	MBCZB9.1D	562	MC060A	1104
M4630	2009	M9184	2030	MA154	1122 N2	MA4047(M)-Y	565	MACZD15D	564	MBCZB9.1D5	562	MC070	1114
M4653	562	M9197	2016	MA154WA	1122 N1	MA4047-H	565	MACZD15D5	564	MBCZB9.1D10	562	MC070A	1114
M4689	2030	M9206	1104	MA154WK	1122 N2	MA4047H	565	MACZD15D10	564	MBCZB12D	563	MC080	1114
M4705	2009	M9209	2030	MA155WA	1122 N1	MA4047M	565	MACZE9.1D	562	MBCZB12D5	563	MC080A	1114
M4706	2009	M9228	2030	MA155WK	1122 N2	MA4051	565	MACZE9.1D5	562	MBCZB12D10	563	MC090	1114
M4709	2016	M9235	1104	MA156	1122 N3	MA4051(H)	565	MACZE9.1D10	562	MBCZB13D	564	MC090A	1114
M4709RED/RED	2016	M9244	2041	MA-161	1122	MA4051-M	565	MACZE12D	563	MBCZB15D5	564	MC2	1122
M4714	2009	M9248	2009	MA161	1122	MA4051H	565	MACZE12D5	563	MBCZB15D10	564	MC19	1102
M4715	2041	M9259	2041	MA161C	1122	MA4051LM	565	MACZE12D10	563	MBCZC9.1D	562	MC30	1114
M-4721	2009	M9266	2016	MA161TA5	1122	MA4051M	565	MACZE15D	564	MBCZC9.1D5	562	MC51	1103
M4732	2009	M9278	2041	MA162	1122	MA4062	561	MACZE15D5	564	MBCZC9.1D10	562	MC73	563
M4733	2016	M9302	2041	MA162A	1122	MA4062-L	561	MACZE15D10	564	MBCZC12D	563	MC78M05CT	1770
M4734	2009	M9312	1104	MA162LF	1122	MA4062M	561	MACZF4.7D	565	MBCZC12D5	563	MC78M12	1771
M4736	1104	M9314	1104	MA162TA5	1122	MA4091	562	MACZF4.7D5	565	MBCZC12D10	563	MC78M12CT	1771
M4737	2009	M9317	1104	MA165	1122	MA4091(M)	562	MACZF4.7D10	565	MBCZC15D	564	MC78M15CT	1772
M4739	2009	M9319	1104	MA166	1122	MA4091(M)-Y	562	MACZF5.1D	565	MBCZC15D5	564	MC78T12CT	1771
M4745	2023	M9321	2041	MA166(C)	1122	MA4091-L	562	MACZF5.1D5	565	MBCZC15D10	564	MC100	1114
M4746	2016	M9328	2023	MA166C	1122	MA4091L	562	MACZF5.1D10	565	MBCZD9.1D	562	MC100A	1114
M4756	2016	M9329	2016	MA167	1122	MA4101	1617	MACZF6.2D	561	MBCZD9.1D5	562	MC110	1114
M4757	2016	M9338	2016	MA167A	1122	MA4102	1617	MACZF6.2D5	561	MBCZD9.1D10	562	MC110A	1114
M4765	2009	M9348	2027	MA170	1122	MA4103	1617	MACZF6.2D10	561	MBCZD12D	563	MC110A5	1114
M4768	2009	M9380	2030	MA171	1122	MA4104	1617	MACZF9.1D	562	MBCZD12D5	563	MC110S	1114
M4789	2009	M9389	2009	MA171TA5	1122	MA4120	563	MACZF9.1D5	562	MBCZD12D10	563	MC170	1122
M4815	2023	M9450	2016	MA175WA	1122 N1	MA4120(M)	563	MACZF9.1D10	562	MBCZD15D	564	MC-301	1122
M4815D	2023	M9481	2016	MA175WK	1122 N2	MA4120(M)-Y	563	MACZF12D	563	MBCZD15D5	564	MC308	1123
M4816	562	M9482	2016	MA176WA	1122 N1	MA4120H	563	MACZF12D5	563	MBCZD15D10	564	MC456	1101
M4820	2016	M9491	1617	MA176WK	1122 N2	MA4120M	563	MACZF12D10	563	MBCZE9.1D	562	MC456A	1122
M4821	2009	M9514	2023	MA181	1104	MA4150	564	MACZG4.7D	565	MBCZE9.1D5	562	MC457	1104
M4825	2016	M9519	2030	MA182	1104	MA4150(L)-Y	564	MACZG4.7D5	565	MBCZE9.1D10	562	MC457A	1122
M4826	2016	M9525	1617	MA183	1104	MA4150(M)-Y	564	MACZG4.7D10	565	MBCZE12D	563	MC458	1102
M4834	2009	M9526	2023	MA184	1104	MA4150-M	564	MACZG5.1D	565	MBCZE12D5	563	MC458A	1122
M4837	2016	M9527	2023	MA185	1104	MA4150M	564	MACZG5.1D5	565	MBCZE12D10	563	MC459	1122
M4840	2009	M9531	2023	MA186	1104	MA4501	565	MACZG5.1D10	565	MBCZE15D	564	MC459A	1122
M4840A	2016	M9532	1617	MA190	1122	MA6001	1617	MACZG6.2D	561	MBCZE15D5	564	MC461	1122
M4841	2009	M9561	2030	MA195	1122	MA6002	1617	MACZG6.2D5	561	MBCZE15D10	564	MC461A	1122
M4842	2009	M9570	1617	MA203	1104	MA6003	1617	MACZG6.2D10	561	MBCZF4.7D	565	MC462	1122
M4842A	2009	M9571	2023	MA211	1104	MA6101	2030	MACZG9.1D	562	MBCZF4.7D5	565	MC462A	1104
M4842C	2009	M31001	1617	MA215	1104	MA6102	1717	MACZG9.1D5	562	MBCZF4.7D10	565	MC463	1122
M4844	2009	M41032A	1114	MA242	1104	MA7805	1670	MACZG9.1D10	562	MBCZF5.1D	565	MC463A	1102
M4845	2016	M41223-2	1104	MA242BC	1114	MA8001	2030	MACZG12D	563	MBCZF5.1D5	565	MC464	1122
M4850	563	M51841P	1723	MA242C	1104	MA8002	2030	MACZG12D5	563	MBCZF6.2D	561	MC464A	1102
M4851	563	M51848P	1723	MA242RC	1114	MAC10-1	1000	MACZG12D10	563	MBCZF6.2D5	561	MC482	1122
M4852	2009	M53200	1801	MA350	1104	MAC10-2	1000	MAN74	075	MBCZF6.2D5	561	MC482A	1122
M4854	2009	M53200P	1801	MA351	1104	MAC11-1	1090	MAN74A	075	MBCZF6.2D10	561	MC482B	1122
M4855	2016	M53201	1801	MA741	007	MAC77-1	1000	MB-01	1171	MBCZF9.1D	562	MC483	1122
M4857	2016	M53201P	1801	MA790	1123	MAC77-2	1000	MB01	1104	MBCZF9.1D5	562	MC483A	1122
M4882	2041	M53204	1802	MA856	1122	MAC77-3	1000	MB-04	1173	MBCZF9.1D10	562	MC483B	1122
M4898	2009	M53204P	1802	MA858	1122	MAC77-4	1000	MB-4-01	1171	MBCZF12D	563	MC484	1122
M4906	2009	M53208P	1822	MA859	1122	MAC77-5	1000	MB-4-04	1173	MBCZF12D5	563	MC484A	1122

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MC484B	1102	MC610B	564	MCCZB9.1D	562	MCR107-3	1067	MDCZA12D5	563	ME1D823A	561	MGLA47A	561
MC485	1122	MC6108A	564	MCCZB9.1D5	562	MCR107-4	1067	MDCZA12D10	563	ME1D825	561	MGLA47B	565
MC485A	1122	MC6108	561	MCCZB9.7D10	562	MCR115	1067	MDCZA15D	564	ME1D825A	561	MGLA51	565
MC485B	1102	MC6108A	561	MCCZB12D	563	MCR120	1067	MDCZA15D5	564	ME1D827	561	MGLA51A	565
MC486	1103	MC6113	562	MCCZB12D5	563	MCR406-1	1067	MDCZA15D10	564	ME1D827A	561	MGLA51B	565
MC486A	1103	MC6113A	562	MCCZB12D10	563	MCR406-2	1067	MDCZB9.1D	562	ME1D829	561	MGLA62	561
MC486B	1103	MC6116	563	MCCZB15D	564	MCR406-3	1067	MDCZB9.1D5	562	ME-2	2009	MGLA62A	561
MC487	1103	MC6116A	563	MCCZB15D5	564	MCR406-4	1067	MDCZB9.1D10	562	ME-3	2009	MGLA62B	561
MC487A	1103	MC6118	564	MCCZB15D10	564	MCR407-1	1067	MDCZB11D	563	ME213	1617	MGLA91	562
MC487B	1103	MC6118A	564	MCCZC9.1D	562	MCR407-2	1067	MDCZB11D5	563	ME213A	1617	MGLA91A	562
MC488	1103	MC7400	1801	MCCZC9.1D5	562	MCR407-3	1067	MDCZB11D10	563	ME216	1617	MGLA91B	562
MC488A	1103	MC7400F	1801	MCCZC9.1D10	562	MCR407-4	1067	MDCZB12D	563	ME217	1617	MH67	1104
MC488B	1103	MC7400L	1801	MCCZC12D	563	MCR1906-1	1067	MDCZB12D5	563	ME409-02B	562	MH68	1104
MC678	1102	MC7400N	1801	MCCZC12D5	563	MCR1906-2	1067	MDCZB12D10	563	ME501	2023	MH70	1104
MC990	1122	MC7400P	1801	MCCZC12D10	563	MCR1906-3	1067	MDCZB15D	564	ME502	2023	MH71	1104
MC911	1122 N1	MC7401F	1801	MCCZC15D	564	MCR1906-5	1020	MDCZB15D5	564	ME900	2009	MH72	1114
MC921	1122 N2	MC7401L	1801	MCCZC15D5	564	MCR1906-6	1020	MDCZB15D10	564	ME900A	1617	MH73	1114
MC931	1122 N3	MC7401P	1801	MCCZC15D10	564	MC5101	1122	MDCZC9.1D	562	ME901	1617	MH500	1104
MC1455P1	1723	MC7404L	1802	MCCZD9.1D	562	MC5105	1122	MDCZC9.1D5	562	ME901A	1617	MH670	1104
MC1458	038	MC7404P	1802	MCCZD9.1D5	562	MCV	1104	MDCZC9.1D10	562	ME1001	1617	MH680	1104
MC1458CP1	038	MC7408L	1822	MCCZD9.1D10	562	MD04	1101	MDCZC12D	563	ME1002	1617	MH700	1104
MC1458G	038	MC7408P	1822	MCCZD12D	563	MD-34	1123	MDCZC12D5	563	ME1075	2030	MH710	1104
MC1458P	038	MC7447L	1805	MCCZD12D5	563	MD34	1123	MDCZC12D10	563	ME1138	2058	MH720	1114
MC1458P1	038	MC7447P	1805	MCCZD12D10	563	MD34A	1123	MDCZC15D	564	ME2001	1617	MH730	1114
MC1458V	038	MC7490AP	1808	MCCZD15D	564	MD35	1123	MDCZC15D5	564	ME2002	1617	MH740	1122
MC1488	2520	MC7490F	1808	MCCZD15D5	564	MD38	1123	MDCZC15D10	564	ME3002	2016	MHM1001	2016
MC1488F	2520	MC7490L	1808	MCCZD15D10	564	MD46	1123	MDCZD9.1D	562	ME3011	2016	MHM1101	2016
MC1488L	2520	MC7490P	1808	MCCZE9.1D1D	562	MD50	1122	MDCZD9.1D5	562	ME4001	1617	MHT2414	2030
MC1488N	2520	MC7805	1770	MCCZE9.1D5	562	MD54	1123	MDCZD9.1D10	562	ME4002	1617	MHT2418	2030
MC1488P	2520	MC7805ACT	1770	MCCZE9.1D10	562	MD56	1123	MDCZD12D	563	ME4003	1617	MHT4401	2030
MC1488PD	2520	MC7805BT	1770	MCCZE12D	563	MD60	1123	MDCZD12D5	563	ME4003C	1617	MHT4411	2030
MC1489	2521	MC7805C	1770	MCCZE12D5	563	MD-60A	1123	MDCZD12D10	563	ME4101	1617	MHT4412	2030
MC1489/5N75189N	2521	MC7805CP	1770	MCCZE12D10	563	MD60A	1123	MDCZD15D	564	ME4102	1617	MHT4413	2030
MC1489A	2521	MC7805CT	1770	MCCZE15D	564	MD134	1122	MDCZD15D5	564	ME4103	1617	MHT4417	2030
MC1489AP	2521	MC7812	1771	MCCZE15D5	564	MD135	1122	MDCZD15D10	564	ME4104	1617	MHT4483	2030
MC1489F	2521	MC7812ACT	1771	MCCZE15D10	564	MD136	1122	MDCZE9.1D	562	ME5001	2016	MHT4511	2030
MC1489L	2521	MC7812BT	1771	MCCZF4.7D	565	MD137	1104	MDCZE9.1D5	562	ME6001	1617	MHT4512	2030
MC1489N	2521	MC7812CT	1771	MCCZF4.7D5	565	MD138	1104	MDCZE9.1D10	562	ME6002	1617	MHT4513	2030
MC1489P	2521	MC7815	1772	MCCZF4.7D10	565	MD139	1104	MDCZE12D	563	ME6003	1617	MHT5906	2020
MC1520	1104	MC7815ACT	1772	MCCZF5.1D	565	MD234	1122	MDCZE12D5	563	ME6101	2023	MHT7401	2030
MC1521	1102	MC7815BT	1772	MCCZF5.1D5	565	MD235	1122	MDCZE12D10	563	ME6001	2030	MHT7411	2030
MC1522	1102	MC7815CT	1772	MCCZF5.1D10	565	MD236	1122	MDCZE15D	564	ME8002	2030	MHT7412	2030
MC1523	1103	MC7815CP	1772	MCCZF6.2D	561	MD237	1104	MDCZE15D5	564	ME8003	2030	MHT7414	2030
MC1524	1103	MC7815P	1772	MCCZF6.2D5	561	MD238	1104	MDCZE15D10	564	ME8101	2016	MHT7417	2030
MC1525	1104	MC14001	2401	MCCZF6.2D10	561	MD708	2009	MDCZF4.7D	565	ME8201	2016	MHT7401	2041
MC1526	1104	MC14001B	2401	MCCZF9.1D	562	MD708A	2009	MDCZF4.7D5	565	ME9001	2009	MHT7602	2041
MC1527	1114	MC14001BCL	2401	MCCZF9.1D5	562	MD708AF	2009	MDCZF4.7D10	565	ME9002	2016	MHT7603	2041
MC1528	1114	MC14001BCP	2401	MCCZF9.1D10	562	MD708B	2009	MDCZF4.7D5	565	ME9003	2016	MHT7607	2041
MC1529	1114	MC14001CP	2401	MCCZF12D	563	MD708BF	2009	MDCZF5.1D5	565	ME9021	2016	MHT7608	2041
MC1558G	038	MC14011	2411	MCCZF12D5	563	MD708F	2009	MDCZF5.1D10	565	ME9022	2016	MHT7609	2041
MC1723CL	1740	MC14011B	2411	MCCZF12D10	563	MD753	561	MDCZF6.2D	561	MEM4001	2401	MHT9001	2030
MC1723CP	1740	MC14011BCL	2411	MCCZG4.7D	565	MD753A	561	MDCZF6.2D5	561	MEM4011	2411	MHT9002	2030
MC1741CP	307	MC14011BCL	2411	MCCZG4.7D5	565	MD757	562	MDCZF6.2D10	561	MEM4013	2413	MHT9004	2030
MC1741CP1	307	MC14011BCP	2411	MCCZG4.7D10	565	MD757A	562	MDCZF9.1D	562	MEM4049	2449	MHT9005	2030
MC1741NCP1	307	MC14011CP	2411	MCCZG5.1D	565	MD759	563	MDCZF9.1D5	562	MEZ1-4.7	565	MI-15	1104 N2
MC1741P1	307	MC14011CP	2411	MCCZG5.1D5	565	MD759A	563	MDCZF9.1D10	562	MEZ1-5.1	565	MI-15MR	1104 N1
MC2321	1122	MC14013	2413	MCCZG5.1D10	565	MD982	2023	MDCZF12D	563	MEZ1-6.2	563	MI-15MS	1104 N2
MC2325	1122	MC14013A1	2413	MCCZG6.2D	561	MD982F	2023	MDCZF12D5	563	MEZ1-9.1	562	MI-15R	1104 N1
MC2326	1122	MC14013B	2413	MCCZG6.2D5	561	MDA100	1171	MDCZF12D10	563	MEZ1-12G	563	MI15R	1104
MC2335	1122	MC14013BAL	2413	MCCZG6.2D10	561	MDA100A	1171	MDCZG4.7D	565	MEZ1-15	564	MI15RC	1104
MC2336	22	MC14013BCL	2413	MCCZG9.1D	562	MDA101	1171	MDCZG4.7D5	565	MEZ1-115	563	MI-155	1104 N2
MC2335	22	MC14013BCP	2413	MCCZG9.1D5	562	MDA101A	1171	MDCZG4.7D10	565	MEZ12T5	563	MI155	1104
MC2556	22	MC14013CP	2413	MCCZG9.1D10	562	MDA104	1173	MDCZG5.1D	565	MEZ12T10	563	MI155C	1104
MC2525	22	MC14017	2417	MCCZG12D	563	MDA104A	1173	MDCZG5.1D5	565	MEZ15T5	564	MI-101R	1104 N1
MC2526	22	MC14017BAL	2417	MCCZG12D5	563	MDA200	1171	MDCZG5.1D10	565	MEZ-15T5A	564	MI-102	1104 N2
MC2535	1122	MC14017BCL	2417	MCCZG12D10	563	MDA201	1171	MDCZG6.2D	561	MEZ15T10	564	MI-102R	1104 N1
MC2536	1122	MC14017BCP	2417	MCR72-1	1067	MDA204	1173	MDCZG6.2D5	561	MEZ15T10C	564	MI-104	1114 N2
MC2555	1122	MC14017CP	2417	MCR72-2	1067	MDA920-1	1171	MDCZG6.2D10	561	MF521	2035	MI-104R	1114 N1
MC2556	1122	MC14049	2449	MCR72-3	1067	MDA920-2	1104	MDCZG9.1D	562	MF1161	2016	MI-106	1114 N2
MC2625	1122	MC14049B	2449	MCR72-4	1067	MDA920-5	1173	MDCZG9.1D5	562	MF1162	2016	MI-106R	1114 N1
MC2626	1122	MC14049CP	2449	MCR72-5	1020	MDA920-6	1173	MDCZG9.1D10	562	MF1163	2016	MI-151	1114 N2
MC2635	1122	MC14049UB	2449	MCR100-3	1067	MDA920A2	1161	MDCZG12D	563	MF1164	2016	MI-151R	1114 N1
MC2636	1122	MC14049UBAL	2449	MCR100-4	1067	MDA920A6	1173	MDCZG12D5	563	MF3304	2023	MI151R	1101
MC3302	1712	MC14049UBCL	2449	MCR100-5	1020	MDA942-2	1171	MDCZG12D10	563	MFE2000	2035	MI-152	1114 N2
MC3302P	1712	MC14049UBCP	2449	MCR100-6	1020	MDA942-4	1173	MDP173	1122	MFE2001	2035	MI-152A	1114 N2
MC3456P	1728	MC53200	1801	MCR101	1067	MDA942-5	1173	MDS26	2017	MFE2093	2035	MI-152A	1114
MC4558ACP1	038	MC555A	1723	MCR102	1067	MDA942A-1	1171	MDS27	2017	MFE2094	2035	MI-152DR	1114 N1
MC4558CP	038	MC555B	1723	MCR103	1067	MDA942A1	1171	ME0404	2023	MFE2095	2035	MI-152D5	1114 N2
MC4558CP1	038	MCCZA9.1D	562	MCR104	1067	MDA942A-2	1171	ME0404-1	2023	MFE4007	2035	MI-152R	1114 N1
MC4558CU	038	MCCZA9.1D5	562	MCR106-1	1067	MDA942A-4	1173	ME0404-2	2023	MFE4008	2035	MI-152R	1104 N1
MC4558CU1	1122	MCCZA9.1D10	562	MCR106-2	1067	MDA942A-5	1173	ME0404A	2023	MFE4009	2035	MI-152RA	1114
MC6008	561	MCCZA12D	563	MCR106-3	1067	MDA942A5	1173	ME0461	2023	MFE4010	2035	MI-154	1114 N2
MC6008A	561	MCCZA12D5	563	MCR106-4	1067	MDA2500	1185	ME0462	2023	MPE4011	2035	MI-154R	1114 N2
MC6013	562	MCCZA12D10	563	MCR106-5	1020	MDCZA9.1D	562	ME-1	1617	MFE4012	2035	MI-154R	1114 N1
MC6013A	562	MCCZA15D	564	MCR106-6	1070	MDCZA9.1D5	562	ME1D821	561	MFJ10335	2035	MI-136	1114 N2
MC6016	113	MCCZA15D5	564	MCR107-1	1067	MDCZA9.1D10	562	ME1D821A	561	MGD72			

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MI301	1122	MK10-2	2035	MM3736	2030	MPC3500	1122	MPS3391	2009	MPS6513	2009	MPS9246A B	2009
MI402	1104	MK-10-E	2035	MM3737	2030	MPC14305	1770	MPS3391A	2009	MPS6514	2009	MPS9410	2030
MI1546	2016	IK10-E	2035	MM3903	2030	MPD200	1617	MPS3392	2009	MPS6515	2009	MPS9410A	2030
MIC7400J	1801	MK102	2035	MM3904	1617	MPD201	1122	MPS3393	2009	MPS6516	2023	MPS9410AJ	2030
MIC7400N	1801	MK585	2035	MM3905	2023	MPD202	1122	MPS3394	2009	MPS6517	2023	MPS9410AK	2030
MIC7401J	1801	ML723CM	1740	MM3906	2023	MPD203	1122	MPS3395	2009	MPS6518	2023	MPS9410H	2030
MIC7401N	1801	ML723CP	1740	MM4011	2411	MPD300	1122	MPS3396	2009	MPS6519	2023	MPS9417A-T	2009
MIC7404J	1802	ML741CS	007	MM4013	2413	MPD301	1122	MPS3397	2016	MPS6520	2009	MPS9418	2009
MIC7404N	1802	ML14585	038	MM4017	2417	MPD302	1122	MPS3398	2009	MPS6521	2009	MPS9418T	2009
MIC7490J	1808	ML7815P	1772	MM4048	2023	MPD400	1122	MPS3536	2016	MPS6522	2023	MPS9423	2009
MIC7490N	1808	MLM139	1712	MM4049	2449	MPD401	1122	MPS-3563	2009	MPS6523	2023	MPS9423G	2016
MJ105	2055	MLM139AL	1712	MM4052	2023	MPD402	1122	MPS3563	2016	MPS6528	2016	MPS9423H	2016
MJ139A	2009	MLM139L	1712	MM4429	2017	MPD4011BC	2411	MPS3565	2016	MPS6529	2016	MPS9423I	2016
MJ480	2041	MLM224L	1711	MM4430	2017	MPF101	2035	MPS3566	2009	MPS6530	2009	MPS9426	2058
MJ481	2041	MLM224P	1711	MM5189	2030	MPF102	2062	MPS3638	2023	MPS6531	2009	MPS9426A B	2009
MJ490	2043	MLM239AL	1712	MM5262	2030	MPF103	2035	MPS-3638A	2023	MPS6532	2009	MPS9426B	2058
MJ491	2043	MLM239L	1712	MM5611AN	2411	MPF104	2035	MPS3638A	2023	MPS6533	2023	MPS9426B,C	2058
MJ-2251	2030	MLM324	1711	MM8006	2016	MPF105	2035	MPS3639	2023	MPS6533M	2023	MPS9426B,C	2058
MJ2800	2041	MLM324L	1711	MM8007	2016	MPF-106	2035	MPS3640	2023	MPS6534	2023	MPS9426C	2058
MJ2801	2041	MLM324P	1711	MMBZ5234	561	MPF106	2062	MPS3642	2009	MPS6534M	2023	MPS9427	2058
MJ2802	2041	MLM324P1	1711	MMBZ5239	562	MPF107	2035	MPS3643	1617	MPS6535	2023	MPS9427B	2058
MJ2901	2043	MLM339AL	1712	MMBZ5242	563	MPF108	2035	MPS3644	2023	MPS6535M	2023	MPS9427B,C	2009
MJ2955	2043	MLM339L	1712	MMCM918	2016	MPF111	2062	MPS3645	2023	MPS6539	2058	MPS9427C	2058
MJ3480	2055	MLNA347	565	MMCM930	2016	MPF112	2035	MPS3646	2009	MPS6540	2058	MPS9433	2009
MJ6302	2041	MLNA347A	565	MMCM2222	1617	MPF256	2035	MPS3693	2009	MPS6541	2058	MPS9433I	2009
MJ8400	2055	MLNA351	565	MMT70	2016	MPF820	2035	MPS3694	2009	MPS6542	2058	MPS9433J	2016
MJ12002	2055	MLNA351A	565	MMT72	2009	MPL1000	2023	MPS-3702	2023	MPS6543	2058	MPS9433K	2009
MJ12003	2055	MLNA362	561	MMT73	2009	MPMS006	2009	MPS3702	2023	MPS6544	2009	MPS9433S	2009
MJ12004	2055	MLNA362A	561	MMT918	2058	MPN3201	1122	MPS3703	2023	MPS6545	2009	MPS9433T	2009
MJ15001	2041	MLNA391	562	MMT2222	2009	MPN-3401	1122	MPS3704	2009	MPS6546	2058	MPS9434	2009
MJ15002	2043	MLNA391A	562	MMT3014	2009	MPN3412	1122	MPS-3705	2009	MPS6547	2016	MPS9434J	2009
MJE21	2020	MLV750A	565	MMT3546	2023	MPS393	2009	MPS3705	2009	MPS6548	2058	MPS9434K	2009
MJE27A	2020	MLV751A	565	MMT3799	2023	MPS404	2023	MPS3706	2009	MPS6552	2009	MPS9434L	2009
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MJE31B	2020	MM2	1104	MMZ4.7-20	565	MPS706A	2009	MPS3711	2009	MPS6560	2009	MPS9600	2009
MJE31C	2020	MM3	1104	MMZ4.7A	565	MPS708	2016	MPS3721	2009	MPS6561	2009	MPS9600(G)	2009
MJE33	2020	MM4	1104	MMZ5.1	565	MPS805	2016	MPS3826	2009	MPS6562	2023	MPS9600-5	2009
MJE33A	2020	MM5	1104	MMZ5.1-20	565	MPS834	2009	MPS3827	2009	MPS6563	2023	MPS9600F	2009
MJE33B	2020	MM6	1104	MMZ5.1A	565	MPS835	2009	MPS3900	2009	MPS6564	2009	MPS9600G	2009
MJE33C	2020	MM7	1114	MMZ6.2	561	MPS918	2016	MPS3900A	2009	MPS6565	2009	MPS9600G/H	2016
MJE34	2027	MM8	1114	MMZ6.2-20	561	MPS929	2023	MPS3901	2009	MPS6566	2009	MPS9601	2016
MJE41	2020	MM9	1114	MMZ6.2A	561	MPS929A	2023	MPS3903	2009	MPS6567	2009	MPS9602	1104
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MJE41B	2020	MM306	2030	MMZ9.1-20	562	MPS930A	2023	MPS3905	2023	MPS6568A	2058	MPS9604(E)	2009
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MJE242	2020	MM999	2023	MN51	1123	MPS2713	2009	MPS4354	2023	MPS6574-B	2030	MPS9611-5	2009
MJE520K	2020	MM1367/25C684	2016	MN54	2009	MPS2714	2009	MPS4355	2023	MPS6574-8-BLUE	2030	MPS9616	2009
MJE521K	2020	MM1382	2016	MN60(DIODE)	1123	MPS2715	2009	MPS4356	2023	MPS6574-G	2030	MPS9616J	2009
MJE800T	2068	MM1387	2016	MN4001B	2401	MPS-2716	2009	MPS5086	2023	MPS6574-S	2030	MPS9618	2009
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MJE802T	2068	MM1613	2009	MN4013B	2413	MPS2823	2016	MPS5128	2016	MPS6574-Y	2030	MPS9618H	2009
MJE803T	2068	MM1614	2023	MOC3009	134	MPS2894	2016	MPS5129	2016	MPS6574-YEL	2030	MPS9618I	2009
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MJE2381	2020	MM1748	2009	MOZ	1104	MPS2907A	2023	MPS5133	2009	MPS6576	2009	MPS9623C	2009
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MJE2383	2020	MM1756	1617	MP01	1104	MPS2924	2009	MPS5135	2009	MPS6576-BLUE	2009	MPS9623E	2009
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MK-10	2035	MM3726	2023	MP8111	2020	MPS2926YEL	2009	MPS6511	2016	MPS8598	2023	MPS9626	2009
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MK-10-2	2035	MM3735	2030	MPC1458C	038	MPS3390	2009	MPS6512	2009	MPS9185	1617	MPS9626H	2009

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MPS9630	2009	MPS-A70	1617	MR132B	1114	MS2M	1104	MT459	1102	MZ5.1(B)	565	MZ12B	563
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MPS9630I	2009	MPSA20-RED	2016	MR501	1143	MS5H	1104	MT462	1122	MZ6.2(C)	561	MZ15A	564
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MPS9631(I)	1617	MPS-A55	2023	MR852	1104	MS13H	1104	MT463A	1102	MZ6.2BT-77	561	MZ15T20	564
MPS9631J	2009	MPSA55	2023	MR910	1114	MS14H	1104	MT464	1102	MZ9.1	562	MZ70-4.7	565
MPS9631J	2009	MPS-A56	2023	MR990	1114	MS22B	1617	MT464A	1102	MZ9.1(C)	562	MZ70-4.7A	565
MPS9631K	2009	MPSA56	2023	MR1030A	1114	MS35H	1104	MT482	1101	MZ12	563	MZ70-4.7B	565
MPS9631S	2009	MPS-A70	2023	MR1030AR	1114	MS36H	1104	MT482A	1122	MZ15	564	MZ70-5.1	565
MPS9631T	2009	MPSA70	2023	MR1030B	1114	MS37H	1103	MT482B	1122	MZ60A	561	MZ70-5.1A	565
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MPS9632(I)	2009	MPSD05	2009	MR1031	1114	MS50	1104	MT483A	1104	MZ613	562	MZ70-6.2	561
MPS9632(K)	2009	MPSD06	2009	MR1031A	1114	MS701T	2016	MT483B	1104	MZ613A	562	MZ70-6.2A	561
MPS9632H	2009	MPSD55	2023	MR1031AR	1114	MS2991	2030	MT484	1102	MZ616	563	MZ70-6.2B	561
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MPS9632J	2009	MPSD239	2009	MR1031BR	1114	MS7501S	2016	MT484B	1122	MZ618	564	MZ70-8.7A	562
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MPS9633G	2016	MPSH11	2058	MR1033B	1114	MS7506H	2030	MT696	1617	MV5074B	026	MZ70-12B	563
MPS9633X	2009	MPS-H17	2058	MR1033BR	1114	MS7506J	2030	MT697	1617	MV5491	025	MZ70-15	564
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MPS9634D	2009	MPS-H20	2016	MR1034BR	1114	MSA850H	2017	MT707	1617	MVA-05A(DIO)	1104	MZ92-4.7	563
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MPS9646	1122	MPS-H24	2016	MR1035AR	1114	MSG7506	2030	MT726	2023	MX-3108	2009	MZ92-4.7B	563
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MPS9646H	1122	MPSH30	2058	MR1035BR	1114	MSM63	2023	MT744	2016	MX-3123	2058	MZ92-5.1A	565
MPS9646I	1122	MPSH31	2058	MR1036A	1114	MSM631	2023	MT753	2016	MX-3267	2009	MZ92-5.1B	565
MPS9646J	1122	MPS-H32	2009	MR1036AR	1114	MSM4001	2401	MT869	2023	MX-3634	2411	MZ92-6.0B	561
MPS9666	2023	MPSH32	2009	MR1036B	1114	MSM4011	2411	MT890	1104	MX3634	2411	MZ92-6.0B	561
MPS9680	2023	MPS-H34	2058	MR1036BR	1114	MSM4011RS	2411	MT1038	2016	MX-3733	2058	MZ92-6.2	561
MPS9680H	2023	MPSH34	2016	MR1038A	1114	MSM4013	2413	MT1038A	2016	MX3733	2058	MZ92-6.2A	561
MPS9680H/E	2023	MPS-H37	2058	MR1038AR	1114	MSM4011RS	2413	MT1039	2016	MX-3743	2009	MZ92-6.2B	561
MPS9680H/I	2023	MPSH37	2058	MR1038B	1114	MSM4017	2417	MT1040A	2016	MX-3937	2009	MZ92-6.2C	561
MPS9680I	2023	MPSH38	2023	MR1038BR	1114	MSM4017AN	2417	MT1061	2016	MX-3944	2023	MZ92-6.2D	561
MPS9680I/J	2023	MPSH55	2023	MR1040A	1114	MSPP99068-1	2030	MT1061A	2016	MX-3978	2009	MZ92-6.2E	561
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MPS9680T	2023	MPSK20	2009	MR1040B	1114	MSR7502	2016	MT1131	2023	MX-4491	2009	MZ92-9.1A	562
MPS9681	2023	MPSK21	2009	MR1040BR	1114	MSR7503	1617	MT1131A	2023	MX-4492	2023	MZ92-9.1B	562
MPS9681J	2023	MPSK22	2009	MR1337-1	1104	MSR-V5	1104	MT1132	2023	MX-4504	2009	MZ92-9.1C	562
MPS9681K	2023	MPSK70	2023	MR1337-2	1104	MS5-1006	1104	MT1132A	2023	MX-4539	2058	MZ92-12	563
MPS9681T	2023	MPSK71	2023	MR1337-3	1104	MS51000	1122	MT1132B	2023	MX-4540	2058	MZ92-12A	563
MPS9682(I)	2023	MPSK72	2023	MR1337-4	1104	MS57501	2016	MT1254	2023	MX-4541	2009	MZ92-12B	563
MPS9682I	2023	MPSX-25	1104	MR1337-5	1104	MS57502	2016	MT1255	2023	MX-4873	2009	MZ92-15	564
MPS9682J	2023	MPSX25	1104	MR2064	1104	MS7-10	2030	MT1256	2023	MX-4972	2009	MZ92-15A	564
MPS9682K	2023	MPSX215	1104	MR2065	1104	MS75501	2016	MT1257	2023	MX-4973	2023	MZ92-15B	564
MPS9682T	2023	MPX9623	2009	MR2069	1114	MSZ9.1	562	MT1258	2023	MX-5368	2009	MZ205	565
MPS9696	2009	MPX9623H	2009	MR2070	1114	MT021	1104	MT1259	2023	MX-5369	2023	MZ206	562
MPS9696F	2009	MPX9623H/I	2009	MR2075	1114	MT021A	1104	MT1420	2023	MX-5370	2009	MZ-209	562
MPS9696G	2009	MPX9623I	2009	MR2261	1104	MT022	1104	MT1613	2030	MX-5371	2009	MZ209	562
MPS9696H	2009	MQ1	2009	MR2271	1104	MT022A	1104	MT1711	2030	MX-5372	2016	MZ209A	562
MPS9700D	2009	MQ2	2009	MR2369	1114	MT0404	2023	MT1889	1123	MX5741	1723	MZ209B	562
MPS9700E	2009	MQ3	1104	MR2375	1114	MT0404-1	2023	MT1991	2023	MY-1	1104	MZ309	563
MPS9700F	2009	MQ4	1104	MR3932	2009	MT0404-2	2023	MT2303	2023	MZ-00	1122	MZ-912	563
MPS9700G	2009	MQ4/2	1104	MR3933	2030	MT0411	2023	MT2411	2023	MZ090	562	MZ12	563
MPS9700T	2009	MQ2	1104	MR9600	1104	MT0412	2023	MT2412	2023	MZ4A	565	MZ250	562
MPS9700U	2009	MQ62	1104	MR9601	1101	MT0413	2023	MT3001	2016	MZ4.7T5	565	MZ305	565
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MPS9750E	2023	MR-1	1104	MR9803	1104	MT0462	2023	MT3011	2016	MZ4.7T20	565	MZ305B	565
MPS9750F	2023	MR-1C	1114	MRB-20C	1104	MT0493	2058	MT4101	2009	MZ5.1T5	565	MZ305C	565
MPS9750G	2023	MR1C	1114	MRD150	2016	MT14	1104	MT4102	2009	MZ5.1T10	565	MZ306C	561
MPS9750DF	2023	MR-1M	1114	MRD450	2016	MT24	1104	MT4102A	2009	MZ5.1T20	565	MZ309	562
MPS9750T	2023	MR-1M	1114	MRD821	561	MT44	1104	MT4103	2009	MZ6.2	561	MZ309A	562
MPS96800	2023	MR21CR	1067	MRD825	561	MT64	1104	MT4104	2016	MZ6.2A	561	MZ309B	562
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MPSA105A	2009	MR47C-H	565	MRD829	561	MT100	2016	MT5011	1104	MZ6.2T5	561	MZ310	562
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MPSA09	2009	MR60	1104	MRD923	561	MT102	2016	MT5051	1104	MZ6.2T20	561	MZ312A	563
MPSA10	1617	MR62C-H	561	MRD925	561	MT104	1102	MT5100	1102	MZ8.6	562	MZ312B	563
MPSA10	2009	MR62E-H	561	MRD927	561	MT106	2016	MT5101	1102	MZ-9	562	MZ312C	563
MPSA10-BLU	2009	MR62H	561	MRD929	561	MT107	2016	MT5102	1104	MZ9.1B	562	MZ409	562
MPSA10-GRN	2009	MR70	1114	MRF501	2016	MT170	1102	MT5103	1104	MZ9.1T5	562	MZ409-02B	562
MPSA10-RED	2009	MR80	1114	MRF502	2016	MT-302	2030	MT6001	2009	MZ9.1T10	562	MZ409A	562
MPSA10-WHT	2009	MR90	1114	MRF531	2030	MT456	1101	MT6002	2009	MZ9.1T20	562	MZ409B	562
MPSA10-YEL	2009	MR90	1114	MRV-20C	562	MS-1	1104	MT6003	2009	MZ-11	562	MZ409C	562
MPSA11	2016	MR91E-M	562	MS1H	1104	MT457	1104	MT9001	2016	MZ-12	563	MZ412	563
MPSA17	2016	MR100	1114	MS1H	1104	MT457A	1104	MT9002	2016	MZ12	563	MZ412A	563
						MT458	1102	MT9003	2016	MZ12A	563	MZ412B	563

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MZ414C	564	N7400N	1801	ND10A	1114	NL50	1104	NS478	1617	NT50C4V7	565	NTE507	1101
MZ500-8	565	N7401	1801	NE550A	1740	NL60	1104	NS479	1617	NT55C4V7	565	NTE519	1122
MZ500-9	565	N7401A	1801	NE550F	1740	NL100B	2016	NS480	1617	NT101	1067	NTE524V13	568
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MZ500-15	562	N7401N	1801	NE555	1723	NN650	2023	NS662	2023	NT1503	2016	NTE778A	038
MZ500-18	563	N-7404A	1802	NE555JG	1723	NN1199	2058	NS663	2023	NT2222A	2009	NTE823	1731
MZ500-20	564	N7404A	1802	NE555N	1723	NN9017	2009	NS664	2023	NT5007	2023	NTE834	1712
MZ500-9	565	N7404F	1802	NE555P	1723	NP50A	1104	NS665	2023	NT5512	565	NTE858M	1715
MZ500-15	562	N7404N	1802	NE555V	1723	NP60A	1104	NS666	2023	NT6034	2016	NTE876	1705
MZ500-18	563	N-7408A	1822	NE556	1728	NP389	1104	NS667	2023	NTC-4	2023	NTE923D	1740
MZ605	561	N7408A	1822	NE556A	1728	NP2222AP	2009	NS668	2023	NTC-5	2016	NTE941M	007
MZ610	561	N7408F	1822	NE556N	1728	NPC0010	1104	NS731	1617	NTC-6	2023	NTE955M	1723
MZ620	561	N7408N	1822	NE4304	2035	NPC0050	1104	NS731A	1617	NTC-7	2009	NTE956	1778
MZ640	561	N7447A	1805	N-EA15X130	2016	NPC069	2009	NS732	2023	NTC-10	2023	NTE960	1770
MZ829	561	N7447AF	1805	N-EA15X131	2016	NPC069-98	2009	NS732A	2023	NTC-11	2009	NTE966	1771
MZ829A	561	N7447B	1805	N-EA15X132	2016	NPC079	2023	NS733	1617	NTC-12	2055	NTE968	1772
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MZ939A	562	N7490A	1808	N-EA15X135	2016	NPC06998	2016	NS734	1617	NTC-14	1123	NTE987	1711
MZ939B	562	N7490F	1808	N-EA15X136	1617	NPC108	2062	NS734A	1617	NTC-15	1122	NTE1155	705
MZ1000-5	565	N7490N	1808	N-EA15X137	1617	NPC108A	2062	NS949	1617	NTC-17	1104	NTE1232	703
MZ1000-6	565	N8875F	1801	N-EA15X138	1617	NPC115	2030	NS1000	1101	NTC-19	1104	NTE3007	026
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MZ1000-15	563	N5301811001	1122	NF520	2035	NPC188	2016	NS1510	2016	NTE18	2009	NTE3030	036
MZ1000-17	564	N5302541039	561	NF522	2035	NPC189	2030	NS1672	2023	NTE85	2009	NTE3047	134
MZ1005	565	N5302660001	1122	NF523	2035	NPC211N	2062	NS1673	2023	NTE107	2016	NTE3056	075
MZ1006	561	N5302990002	1104	NF531	2035	NPC212N	2062	NS1674	2023	NTE108	2016	NTE3115	081
MZ1009	562	N5303020003	563	NF533	2035	NPC213N	2062	NS1675	2023	NTE108-1	2016	NTE3131	030
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MZ2361	1122	N6102320002	2009	NF4303	2062	NPC216N	2062	NS1863	2023	NTE114	1101	NTE4013B	2413
MZ4624	565	N6103690001	2023	NF5485	2035	NPC290	2030	NS1864	2023	NTE115	1101	NTE4017B	2417
MZ4625	565	N6104340001	2023	NF5486	2035	NPC312N	2035	NS1972	1617	NTE116	1104	NTE4049	2449
MZ4627	561	N6104350001	2009	NGP3002	1123	NPC373	1617	NS1973	1617	NTE117	1114	NTE5009A	565
MZL4.7A10	565	N6104350004	2009	NGP3003	1143	NPC1075	2009	NS1974	1617	NTE120	1101	NTE5010A	565
MZL4.7B10	565	N6104420001	2009	NGP5002	561	NP0531	1122	NS1975	1617	NTE123	1617	NTE5013A	561
MZL5.1A10	565	N6104980001	2023	NGP5007	562	NPS404	2023	NS2000	1114	NTE123A	1617	NTE5017A	562
MZL5.1B10	565	N6105000001	2009	NGP5010	563	NPS404A	2023	NS2006	1114	NTE123AP	2009	NTE5018A	562
MZL6.2A10	561	N6105000004	2009	NJ100A	2016	NPS6512	2009	NS2007	1114	NTE125	1114	NTE5021A	563
MZL6.2B10	561	N6124790001	1770	NJ100B	1617	NPS6513	2009	NS2008	1114	NTE128	2030	NTE5024A	564
MZL8.7A10	562	NA-13	1104	NJ101B	2023	NPS6514	2009	NS2100	2030	NTE130	2041	NTE5069A	565
MZL8.7B10	562	NA13	1104	NJ102C	1617	NPS6518	2027	NS2101	2030	NTE132	2035	NTE5070A	561
MZL9.1A10	562	NA22	1104	NJ107	2030	NPS6519	2009	NS3000	1114	NTE133	2035	NTE5073A	562
MZL9.1B10	562	NA25	1104	NJ202B	2016	NPS6520	2009	NS3006	1114	NTE135A	565	NTE5304	1173
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MZL15A10	564	NA33	1104	NJM4558D	038	NPSA20	2016	NS3039	2016	NTE141A	563	NTE5402	1067
MZL15B10	564	NA-35	1104	NJM4558D-1	038	NR041	2009	NS3040	2016	NTE142A	563	NTE5403	1067
MZL312	563	NA35	1104	NJM4558DD	038	NR041E	2009	NS3041	2016	NTE145A	564	NTE5404	1067
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MZU4.7B10	565	NA42	1104	NJM4558DMA	038	NR201AY	1617	NS3904	1617	NTE156	1114	NTE5409	1020
MZU5.1A10	565	NA-45	1104	NJM4558K	038	NR-261AS	2009	NS3905	2023	NTE159	2023	NTE5411	1067
MZU5.1B10	565	NA45	1104	NJM4559D	038	NR261AS	1617	NS3906	2023	NTE159MCP	2009&23	NTE5412	1067
MZU6.2A10	561	NA46	1104	NKT4055	2043	NR271AY	1617	NS6001	2023	NTE161	2016	NTE5413	1067
MZU6.2B10	561	NA-62	1104	NKT10339	1617	NR401	1617	NS6062	2023	NTE164	2055	NTE5414	1067
MZU8.7A10	562	NA-63	1104	NKT110419	1617	NR401EG	1617	NS6063	2023	NTE165	2055	NTE5415	1020
MZU8.7B10	562	NA-65	1104	NKT10439	1617	NR401EH	1617	NS6064	2023	NTE166	1171	NTE5452	1067
MZU9.1A10	562	NA-66	1104	NKT10519	1617	NR421	2016	NS6065	2023	NTE168	1173	NTE5453	1067
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MZU12A10	563	NA74	1114	NKT12429	1617	NR-431AS	1617	NS6113	2016	NTE178MP	1122	NTE5455	1067
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MZU15B10	564	NA-76	1114	NKT16229	2016	NR441EN	1617	NS6207	1617	NTE199	2016	NTE5473	1020
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MZX9.1	562	NA-84	1114	NKT20339	2023	NR461AA	2016	NS6211	2023	NTE229	2058	NTE5512	1020
N1X	2030	NA84	1114	NKT35219	2016	NR461AF	2016	NS6241	2023	NTE233	2009	NTE5600	1000
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N2A(DIODE)	1123	NA85	1114	NKT80112	2062	NR461EG	2009	NS7262	1617	NTE238	2055	NTE5602	1000
N-41	1104	NA-86	1114	NKT80113	2062	NR461EH	2009	NS7267	2016	NTE241	2020	NTE5603	1000
N48	1123	NA86	1114	NKT80211	2035	NR601BT	2023	NS9400	2030	NTE261	2068	NTE5604	1000
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N203B	1067	NA104	1114	NKT80213	2035	NR621EU	2023	NS9500	2030	NTE281	2043	NTE5608	1000
N203C	1020	NA-105	1114	NKT80214	2035	NR631AY	2023	NS9540	2030	NTE289	2009	NTE5629	1000
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N4011	2411	NB013	2016	NL-2N683	2009	NS381	2016	NS9731	2030	NTE312	2035	NTE5650	1000
N4013	2413	NB021EV	2023	NL5	1104	NS382	2016	NS45006	2009	NTE319	2009	NTE5651	1000
N4049	2449	NB021EV(N.S.)	2023	NL10	1104	NS383	1617	NSDU01A	2017	NTE319P	2009	NTE5652	1000
N5406	1122	NB121	2023	NL15	1104	NS384	1617	NSL5057	041	NTE331	2020	NTE5800	1141
NS741V	007	NC29	1123	NL20	1104	NS404	2023	NSL5076A	026	NTE340	2009	NTE5801	1143
N-7400A	1801	NCS9018D	2016	NL25	1104	NS475	1617	NS51021	1114	NTE377	2020	NTE5802	1143
N7400A	1801	ND-07001	1801	NL30	1104	NS476	1617	NT0.6C12	563	NTE451	2062	NTE5803	1144

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
NTE5804	1144	OA541	1123	OS70	1123	P2B	2027	P300G	1144	PA7001/527	1802	PD6007A	565
NTE7400	1801	OA909	1123	OS538G	2009	P2B5	1104	P300GG1	1104	PA7615	1104	PD6009	561
NTE7401	1801	OA2002	1122	OS16308	1104	P2C5	1104	P346	2016	PA8260	2016	PD6009A	561
NTE7404	1802	OA2005	1122	OS5-16308	1104	P2D5	1104	P400	1104	PA8261	564	PD6013	562
NTE7408	1822	OA12612	563	OS516308	1123	P2E	2023	P580	1114	PA8543	2016	PD6013A	562
NTE7447	1805	OAZ200	565	OS5-16685	1123	P2G	2023	P600	1104	PA8645	1104	PD6016	563
NTE7490	1808	OAZ201	565	OS516685	1123	P2GE	2023	P800	1114	PA8900	2017	PD6016A	563
NTE75188	2520	OAZ203	561	OS536503	1104	P2H	2023	P1000	1114	PA9004	2016	PD6018	564
NTE75189	2521	OAZ207	562	OS536685	1104	P2K	2027	P1000A	2023	PA9005	2016	PD6018A	564
NTP6V2	561	OAZ209	565	OS5-36885	1104	P2L	2023	P1055	1123	PA9006	1617	PD6047	565
NTP9V1	562	OAZ210	561	OS536885	1104	P2M-1	2023	P1087	2035	PA9160	1104	PD6048	565
NTP12	563	OAZ212	562	OY101	1104	P2M-2	2023	P1087E	2035	PA9267	561	PD6050	561
NTP15	564	OAZ213	563	OY5061	1104	P2M-3	2023	P1172	1122	PA10556	1104	PD6054	562
NU34	1123	OAZ240	565	OY5062	1104	P2P	2023	P1172-1	1122	PA10887	1104	PD6057	563
NV10A	1114	OAZ241	565	OY5063	1104	P2S	2023	P2221	2009	PB6013	2023	PD6059	564
O2Z12A	563	OAZ243	561	OY5064	1104	P2W	2023	P2221A	2009	PB6013A	2023	PD6202	565
O2Z12GR	563	OAZ247	562	OY5065	1104	P2Y	2023	P2222	2009	PB6013B	2023	PD6209	562
O4-8054-3	1104	OAZ269	565	OY5066	1104	P3/2H	1104	P2222A	2009	PB6014	2023	PDR25	1101
O4-8054-4	1104	OAZ270	561	OY5067	1114	P3A5	1104	P2271	2041	PB6014A	2023	PDR50	1101
O4-8054-7	1104	OAZ272	562	OZ5.1T5	565	P3B5	1104	P2440	1114	PBC107	2016	PE210	2058
O101	1104	OAZ273	563	OZ5.1T10	563	P3C	2023	P2906	2023	PBC107A	2016	PE210C	2058
OS73#10	2016	OC200	2023	OZ6.2T5	561	P3C5	1104	P2906A	2023	PBC107B	2016	PE254A	2058
OS75005	1123	OC201	2023	OZ6.2T10	561	P3D5	1104	P2907	2023	PBC108	2016	PE254B	2058
OA2	1101	OC202	2023	OZ12T5	563	P3W	2043	P2907A	2023	PBC108A	2016	PE254C	2058
OA6	1123	OC203	2023	OZ12T10	563	P3Z	2023	P3139	2041	PBC108B	2016	PE401	1104
OA7	1123	OC204	2023	OZ15T5	564	P4A5	1104	P4069	2030	PBC108C	2016	PE401N	1104
OA9	1123	OC205	2023	OZ15T10	564	P4B5	1104	P4326	1122	PBC109	2016	PE402	1104
OA9D	1123	OC206	2023	P0100AD	1067	P4C	2023	P5100	1114	PBC109B	2016	PE403	1104
OA10	1141	OC207	2023	P0100BA	1067	P4C5	1104	P5149	2041	PBC109C	2016	PE404	1104
OA47	1123	OC430	2023	P0100BB	1067	P4D5	1104	P5152	1617	PBC182	2016	PE405	1104
OA50	1123	OC430K	2023	P0100BD	1067	P4G	2023	P5153	1617	PBC183	2009	PE406	1104
OA-70	1123	OC440	2023	P0100CD	1020	P4J148	2020	P-6006	1122	PBE3322	1123	PE407	1114
OA70	1123	OC440K	2023	P0100DA	1020	P4K	2023	P7109	1114	PBM6004	2023	PE408	1114
OA71	1123	OC443	2023	P0100DB	1020	P4P	2023	P7394	1122	PC02P1/2	1104	PE409	1114
OA71C	1123	OC443K	2023	P0100DD	1020	P4R	2023	P8393	1617	PC0211/2	1104	PE410	1114
OA72	1123	OC445	2023	P0102AA	1067	P4W	2027	P8394	1617	PC0.2P11/2	1104	PE501	1104
OA73	1123	OC445K	2023	P0102AB	1067	P4Y	2023	P9459	1104	PC100	2020	PE502	1104
OA73C	1123	OC449	2023	P0102BA	1067	P4Z	2030	P10115	1104	PC110	2020	PE503	1104
OA74	1123	OC449K	2023	P0102BB	1067	P5A5	1104	P10115A	1114	PC-713U	2020	PE504	1104
OA74A	1123	OC450	2023	P0102CA	1020	P5B	2023	P10155	1123	PC1007	2023	PE505	1104
OA79	1123	OC460	2023	P0102CB	1020	P5B5	1104	P10156	1104	PC1007A	2023	PE506	1104
OA81	1123	OC460K	2023	P0102DA	1020	P5C	2023	P10156A	1114	PC1008	2023	PE507	1114
OA81C	1123	OC463	2023	P0102DB	1020	P5C5	1104	P21316	1104	PC1008A	2023	PE508	1114
OA85	1123	OC463K	2023	P0103AD	1067	P5D	2023	P21317	1104	PC1008B	2023	PE509	1114
OA85C	1123	OC465	2023	P0103BA	1067	P5D5	1104	P21344	562	PC4004	1104	PE510	1114
OA-90	1123	OC465K	2023	P0103BB	1067	P5H	2027	P21443	1104	PC7805H	1770	PE3001	2009
OA90	1123	OC466	2023	P0103BD	1067	P5U	2027	P38103/507-10	564	PC17805H	1770	PE3002	2016
OA-90(G)	1123	OC466K	2023	P0103CD	1020	P6/2H	1104	P633024C(SYLVANIA)	1104	PC-20066	2016	PE3015	2009
OA90-FM	1123	OC467	2023	P0103DA	1020	P6A5	1104		2030	PD05	1171	PE5010	2009
OA90A-G	1123	OC467K	2023	P0103DB	1020	P6B5	1104	P633024G	2030	PD10	1171	PE5013	2009
OA90AG	1123	OC468	2023	P0103DD	1020	P6C5	1104	PA069	1104	PD40	1173	PE5015	2009
OA90FM	1123	OC468K	2023	P1A5	1104	P6D5	1104	PA070	1104	PD101	1104	PE5025	2009
OA90FV	1123	OC469	2023	P1B	2023	P6RP8	1114	PA071	1104	PD102	1104	PE5030	2009
OA90G	1123	OC469K	2023	P1B5	1104	P6RP10	1114	PA3	1104	PD103	1104	PE5030A	2009
OA90GA	1123	OC470	2023	P1C	2023	P7A5	1104	PA9D522/1	1171	PD104	1104	PE5030B	2009
OA90LF	1123	OC470K	2023	P1C5	1104	P7B5	1104	PA200	1104	PD105	1104	PE5031	2016
OA90M	1123	OC700	2023	P1CG	2023	P7C5	1104	PA300	1104	PD106	1104	PEP2	1617
OA90MLF	1123	OC700A	2023	P1D	2023	P7D5	1104	PA305	1104	PD107	1104	PEP5	1617
OA90Z	1123	OC700B	2023	P1D5	1104	P8/2H	1104	PA305A	1104	PD107A	1104	PEP6	1617
OA91	1123	OC702	2023	P1E	2043	P8H	2027	PA310	1104	PD108	1104	PEP7	1617
OA92	1123	OC702A	2023	P1E-1BLK	2043	P16	1101	PA310A	1104	PD110	1104	PEP8	1617
OA-95	1122	OC702B	2023	P1E-1BLU	2043	P17	1101	PA315	1104	PD111	1104	PEP9	1617
OA95	1123	OC704	2023	P1E-1GRN	2043	P20	1104	PA315A	1104	PD114	1114	PEP1001	2016
OA99	1123	OC740	2023	P1E-1RED	2043	P32H	1104	PA-320	1104	PD115	1114	PEP2001	2030
OA126/5	565	OC740G	2023	P1E-1VIO	2043	P61XXC002	1723	PA320	1104	PD116	1114	PET-101-1	2016
OA126/12	563	OC740M	2023	P1E-2BLK	2043	P61XXG027	1712	PA320A	1104	PD122	1104	PET1002	1617
OA127	1104	OC740O	2023	P1E-2BLU	2043	P62D151588	1122	PA320B	1104	PD125	1104	PET1075	2016
OA128	1104	OC742	2023	P1E-2GRN	2043	P62H	1104	PA325	1104	PD129	1104	PET2001	1617
OA129	1104	OC742G	2023	P1E-2RED	2043	P62X011	1104	PA325A	1104	PD130	1104	PET2002	1617
OA130	1104	OC742M	2023	P1E-2VIO	2043	P62X020	2023	PA325B	1104	PD131	1104	PET3001	2016
OA131	1104	OC742O	2023	P1E-3BLK	2043	P67	2023	PA330	1104	PD132	1104	PET3002	2016
OA132	1104	OC7400	2023	P1E-3BLU	2043	P82H	1104	PA330A	1104	PD133	1104	PET3702	2023
OA134Q	1123	OC7420	2023	P1E-3GRN	2043	P100	1104	PA330B	1104	PD134	1104	PET3703	2023
OA150	1123	OF156	1122	P1E-3RED	2043	P100A	1104	PA340	1104	PD135	1104	PET3704	1617
OA159	1123	OF160	1104	P1E-3VIO	2043	P100B	1104	PA340A	1104	PD154	1104	PET3705	2009
OA160	1123	OF162	1122	P1H	2023	P100D	1104	PA340B	1104	PD155	1104	PET3706	1617
OA161	1123	OF164	1104	P1J	2023	P100G	1104	PA350	1104	PD910	1104	PET3903	2009
OA172	1123	OF173	1123	P1N	2023	P100J	1104	PA350A	1104	PD913	1114	PET3904	2009
OA174	1123	OF305	1123	P1N-1	2023	P150A	1104	PA360	1104	PD914	1114	PET3905	2023
OA180	1104	OF449	1122	P1N-2	2023	P150B	1104	PA360A	1104	PD915	1114	PET3906	2023
OA182	1123	ON67A	1123	P1N-3	2023	P150D	1104	PA380	1114	PD916	1114	PET4001	1617
OA200	1122	ON271	2009	P1P	2023	P150G	1104	PA400	1104	PD1001	2009	PET4002	1617
OA202	1122	ON274	1617	P1P-1	2023	P150J	1104	PA600	1104	PD1002	2009	PET4003	2016
OA205	1122	OS-1D	1104	P1V-4	2027	P200	1104	PA1000	2023	PD1011	1171	PET4058	2023
OA210	1104	OS-4D	1104	P1W	2023	P300A	1141	PA1001	2023	PD6006	565	PET4059	2023
OA211	1104	OS-6D	1104	P2A	2023	P300B	1143	PA7001/521	1801	PD6006A	565	PET4060	2023
OA214	1104	OS-8D	1114	P2A5	1104	P300D	1143	PA7001/526	1801	PD6007	565	PET4061	2023

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
PET4062	2023	PL-176-049-9-002	2009	PN71	2023	PP3250	2020	P52346	1114	PT2635	2020	Q-00469C	2009
PET4124	2009	PL-177-006-9-002	2023	PN72	2023	PP3310	2020	P52347	1114	PT2640	2017	Q-00484R	2009
PET4125	2023	PL-182-014-9-002(FET)		PN107	1617	PP3312	2020	P52411	1104	PT2660	2017	Q-00569C	2009
PET4126	2023		2035	PN108	2009	PPR1006	2017	P52412	1104	PT2760	1617	Q-00584R	2009
PET6001	1617	PL1021	2016	PN109	2009	PPR1008	2017	P52413	1104	PT3141	1617	Q-00784R	2009
PET6002	1617	PL1022	2016	PN204	1104	PPT720	1617	P52415	1104	PT3141A	1617	Q-00869C	1617
PET8000	1617	PL1023	2016	PN350	2041	PR515	565	P52416	1114	PT3141B	1617	Q-00984R	2023
PET8001	1617	PL1024	2016	PN917	2016	PR605	565	P52417	1114	PT3151A	2009	Q0-419	2023
PET8002	1617	PL1025	2016	PN918	2016	PR617	563	P54559	1104	PT3151B	1617	Q-0115C	2009
PET8003	1617	PL1026	2016	PN929	2016	PR620	564	P54560	1103	PT3151C	1617	Q-01115C	2009
PET8004	1617	PL1031	2023	PN930	2009	PR804	565	P54725	1104	PT3500	1617	Q-01169C	2030
PET8005	1617	PL1033	2023	PN930(NSC)	2009	PR5400	1114	P55175	2009	PT3502	2030	Q-01184R	1617
PET8005A	1617	PL1034	2023	PN930(NTLB)	2009	PR5401	1114	P55300	1103	PT3503	2017	Q-02115C	2009
PET8006	1617	PL1051	2016	PN1613	2030	PR5402	1114	P55301	1103	PT4690	2017	Q-03115C	2009
PET8006A	1617	PL1052	1617	PN1711	2030	PR5403	1114	P55302	1103	PT4800	1617	Q-04115C	2009
PET8007	1617	PL1053	2016	PN2221A	2009	PR5404	1114	P55303	1104	PT4816	2016	Q-05115C	2009
PET8007A	1617	PL1054	1617	PN2222	2009	PR5405	1114	P55304	1104	PT4830	2016	Q-06115C	2009
PET8101	2016	PL1055	2016	PN2222A	2009	PR5406	1114	P56468	565	PT5693	2020	Q-07115C	2009
PET8200	2030	PL1061	2016	PN2369	2009	PR5407	1114	P58905	565	PT6618	2017	Q-08115C	2009
PET8201	2016	PL1062	2016	PN2369A	2009	PR5408	1114	P58906	565	PT6669	2017	Q-09115C	2009
PET8202	2030	PL1063	2016	PN2484	2016	PR-55345	018	P58908	561	PT6696	2017	Q0V60538	1617
PET8203	2030	PL1064	2016	PN2904	2023	PR55345	018	P58912	562	PT72130	1104	Q1B	1104
PET8204	2009	PL1065	2016	PN2904A	2023	PR53017	565	P58915	563	PT-72130-1	1144	Q1H	1104
PET8250	2016	PL1066	2016	PN2905A	2023	PRT-101	1617	P58917	564	PTC101	2030	Q-1N914	1122
PET8251	2016	PL1067	2016	PN2906	2023	PRT-104	1617	PS10019B	562	PTC103	2023	Q2	2016
PET8300	2016	PL1081	2016	PN2906A	2023	PRT-104-1	1617	PS10022B	563	PTC115	2009	Q-2N5225	2009
PET8301	2023	PL1082	2016	PN2907	2023	PRT-104-2	1617	PS10024B	564	PTC119	2041	Q-2N5226	2023
PET8303	2023	PL1083	2030	PN2907A	2023	PRT-104-3	1617	PS10063	562	PTC121	2009	Q3	2016
PET8304	2023	PL1084	2030	PN2908	2023	PRT-104-4	2030	PS10066	563	PTC126	2016	Q3/2	1104
PET9001	2009	PL1091	2035	PN3250	2023	PS005	1104	PS10068	564	PTC129A	2055	Q4B	1104
PET9002	1617	PL1092	2035	PN3250A	2023	PS010	1104	PSA20	2009	PTC130	2055	Q5	2016
PET9005	2030	PL1093	2035	PN3251	2023	PS015	1104	PSA56	2023	PTC131	2023	Q6/2	1104
PET9022	2030	PL1094	2035	PN3251A	2023	PS020	1104	PSA70	2023	PTC132	2016	Q7-C0710XBE	2009
PG4001	1101	PL1101	2023	PN3563	2023	PS025	1104	PT-029	2020	PTC136	1617	Q7-C0735XBT	2009
PG4002	1104	PL1102	2023	PN3564	2016	PS030	1104	PT-3	1104	PTC139	2009	Q7-C1318XDN	2030
PG4003	1102	PL1103	2023	PN3565	2009	PS035	1104	PT3	1104	PTC140	2041	Q7-K0033XBE	2035
PG4004	1103	PL1104	2023	PN3566	2009	PS040	1104	PT5	1104	PTC143	2017	Q8/2	1104
PG4005	1104	PL1111	2016	PN3638	2023	PS050	1104	PT-5B	1104	PTC146	2055	Q32	1104
PG4006	1114	PL1112	2016	PN3638A	2023	PS060	1104	PT5B	1104	PTC149	2043	Q-35	1617
PG4007	1114	PL1113	2016	PN3641	2009	PS0125	1104	PT6D22/1	1171	PTC151	2035	Q-36	2023
PGR-24	1143	PL4001L	1101	PN3642	2009	PS1A	1104	PT6D22-1	1171	PTC152	2035	Q49	1123
PH9-221	1171	PL4003L	1102	PN3643	2009	PS-1.5-2	1114	PT9C22/1	1114	PTC154	2020	Q50	1123
PH9D5	1114	PL4004L	1103	PN3644	2023	PS105	1104	PT-505	1104	PTC157	2027	Q51	1123
PH9D522/11	1173	PL4006L	1114	PN3645	2023	PS110	1104	PT505	1104	PTC161	2035	Q52	1101
PH9D522M	1177	PL4007L	1114	PN3662	2016	PS120	1104	PT-510	1104	PTC162	2027	Q53	1104
PH9D5221	1171	PL4021	2009	PN3663	2016	PS125	1104	PT510	1104	PTC163	2020	Q54	1104
PH9D522	1104	PL4051	2009	PN3691	2009	PS130	1104	PT-515	1104	PTC167	2020	Q55	1104
PH9D5221	1171	PL4052	2009	PN3692	2009	PS135	1104	PT-520	1104	PTC169	2020	Q56	1104
PH11C22/1	1144	PL4053	2009	PN3694	2009	PS140	1104	PT520	1104	PTC195	2020	Q57	1104
PH25C22	1104	PL4054	2009	PN4013	2009	PS150	1104	PT-525	1104	PTC201	1144	Q58	1104
PH25C22/1	1104	PL4055	2009	PN4121	2023	PS160	1104	PT525	1104	PTC202	1104	Q59	1104
PH25C22/21	1104	PL4061	2016	PN4122	2023	PS405	1104	PT-530	1104	PTC203	1114	Q60	1104
PH25C221	1171	PL4062	2016	PN4140	2009	PS410	1104	PT530	1104	PTC204	1114	Q61	1104
PH109	1114	PLE-48	2020	PN4141	2009	PS415	1104	PT-540	1104	PTC205	1114	Q62	1104
PH204	1104	PLQ0.8	1104	PN4142	2023	PS420	1104	PT540	1104	PTC206	1123	Q82	1104
PH208	1104	PM101-1	1102 N2	PN4143	2023	PS425	1104	PT-550	1104	PTC206M	1123	Q301	2016
PH404	1104	PM101-2	1102 N2	PN4248	2023	PS430	1104	PT550	1104	PTC207	1123	Q2001MS2	1000
PH1021	1104	PM101-4	1102 N2	PN4249	2023	PS435	1104	PT-560	1104	PTC207M	1123	Q2001P	1000
PIC	2023	PM101-6	1102 N2	PN4258	2023	PS440	1104	PT560	1104	PTC214	565	Q2001PT	1000
PL6V2Z	561	PM102-1	1104 N1	PN4275	2009	PS450	1104	PT580	1114	PTC214M	1122	Q2004F31	1000
PL9V1Z	562	PM102-2	1104 N1	PN4354	2023	PS460	1104	PT600	2017	PTC215	565	Q2004F41	1000
PL12Z	563	PM102-4	1104 N1	PN4355	2023	PS603	1104	PT601	2017	PTC401	1173	Q2006AT	1000
PL15Z	564	PM102-6	1104 N1	PN4356	2023	PS604	1104	PT612	2030	PTC403	1104	Q2006BT	1000
PL-150-001-9-00	1123	PM194	2016	PN4416	2035	PS605	1104	PT627	1617	PTC404	1101	Q2006T	1000
PL-150-001-9-005	1123	PM195	2016	PN4423	2023	PS609	1104	PT665	2020	PTC405	1104 N7	Q2015L5	1000
PL-150-006-9-001	1123	PMS006	2009	PN4916	2023	PS610	1104	PT703	1617	PTC406	1122	Q4001L4	1000
PL-151-035-9-001	1122	PMT011	2030	PN5127	2009	PS611	1104	PT720	1617	PTC503	561	Q4001M	1000
PL-151-040-9-001	1122	PMT012	2030	PN5128	2009	PS615	1104	PT850	2030	PTC505	562	Q4001P	1000
PL-151-040-9-002	1122	PMT013	2009	PN5129	2009	PS616	1104	PT850A	2030	PTC507	563	Q4003P3	1000
PL-151-040-9-003	1104	PMT014	2009	PN5130	2016	PS617	1104	PT851	1617	PTC509	564	Q4006F41	1000
PL-151-045-9-001	1104	PMT016	2030	PN5131	2009	PS621	1104	PT866	1617	PTC651	1067	Q5053	2009
PL-151-045-9-002	1122	PMT018	2030	PN5132	2009	PS622	1104	PT887	1617	PTC736	038	Q5053(,25C536(E))	2009
PL-151-045-9-003	1123	PMT019	2030	PN5133	2009	PS623	1104	PT888	2030	PTC780	705	Q5053(,25C536(F))	2009
PL-151-045-9-004	1104	PMT020	2030	PN5134	2009	PS627	1104	PT896	2030	PTC906	2020	Q5053(,25C536(G))	2009
PL-152-044-9-001	562	PMT023	2016	PN5135	2009	PS628	1104	PT897	1617	Pu6C22	1104	Q5053(,25C536)	2009
PL-152-051-9-001	562	PMT024	2030	PN5136	2009	PS629	1104	PT898	1617	PV-8	1104	Q5053(,25C536F)	2009
PL-152-052-9-002	561	PMT111	2009	PN5137	2009	PS632	1104	PT1544	2030	PV8	1104	Q5053(,25C536G)	2009
PL-172-010-9-001	2020	PMT112	2030	PN5138	2023	PS633	1104	PT1545	2030	PV1043	1122	Q5053(,25C536NP(E))	2009
PL-172-014-9-001	2020	PMT113	2009	PN5139	2016	PS636	1104	PT1558	1617	PY-5	1104	Q5053(,25C536NP(F))	2009
PL-176-025-9-001	2009	PMT114	2030	PN5142	2023	PS637	1104	PT1559	1617	Q-00169C	2035	Q5053(,25C536NP(G))	2009
PL-176-029-9-001	1617	PM1116	2030	PN5143	2023	PS1140	1114	PT1160	1617	Q00169C	2035	Q5053(,25C536NP(H))	2009
PL-176-042-9-001	2009	PMT118	2030	PN5179	2058	PS1325	561	PT1835	1617	Q-00184R	2035	Q5053(,25C536NP(I))	2009
PL-176-042-9-002	2009	PMT119	2030	PO93	1123	PS2207	1104	PT1836	1617	Q00184R	2035	Q5053(,25C536NP(J))	2009
PL-176-042-9-003	2009	PMT120	2030	PP3000	2041	PS2208	1104	PT1837	1617	Q-00269C	2009	Q5053(,25C536NP(K))	2009
PL-176-042-9-004	2016	PMT1767	2016	PP3003	2041	PS2209	1104	PT1941	2041	Q-00284R	2016	Q5053A	2009
PL-176-042-9-006	2009	PN66	2020	PP3006									

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
Q5053C	2009	Q5149(,2SD313RA(F))	2020	QA-18	2035	QRT-158	2020	QSE5020	2016	R0052	1114	R621-1	2030
Q5053D	2009		2020	QA-19	1617	QRT-164	2020	QT0095	2023	R0053	1103	R623-1	2030
Q5053E	2009	Q5161Z	2055	QA-20	2035	QRT-166	2020	QT0095(,2SA933(Q))		R0055	1114	R855-2	1104
Q5053F	2009	Q5180	2016	QA-21	2023	QRT-172	1617		2023	R0056	1114	R895	2009
Q5053G	2009	Q5182	2058	QA105R	565	QRT-175	2035	QT0095(,2SA933(R))		R0070	1143	R1080	1114
Q5073D	2009	Q5183	2009	QA1065B	561	QRT-176	2035		2023	R0071	1143	R1001	1067
Q5073E	2009	Q5183(,2SC945A(K))		QA112R1	563	QRT-187	2009	QT0095(,2SA933(S))		R0072	1144	R1002	1067
Q5073F	2009		2009	QA112R1	563	QRT-194	2020		2023	R0080	1114	R1003	1067
Q5077	2023	Q5183(,2SC945A(P))		QA112RN-1	563	QRT-200	1123	QT0095(,2SA933(R))	2023	R0081	1114	R1004	1067
Q5077(,2SA608(E))	2023		2009	QA112RN-2	563	QRT-203	1114	QT0100	2009	R0082	1114	R1005	1067
Q5077(,2SA608(F))	2023	Q5183(,2SC945A(Q))		QA205AB	565	QRT-210	1114	QT0100(,2SC1740(Q))		R0086	1114	R1019	2023
Q5077(,2SA608F)	2023		2009	QA205ABV	565	QRT-212	1104		2009	R0090	1114	R1035	1104
Q5077A	2023	Q5183(,2SC945A(R))		QA205E	565	QRT-213	1104	QT0100(,2SC1740(R))		R0091	1114	R1106	1123
Q5077A(,2SA608)	2023		2009	QA205F	565	QRT-214	1104		2009	R0094	1114	R1107	1123
Q5077A(,2SA608A)		Q5183(,2SC945A)	2009	QA205GV3	565	QRT-215	1104	QT0100(,2SC1740(S))		R0096	1114	R1109	1123
	2023	Q5183(,2SC945A(Q))	2009	QA209M	562	QRT-218	1122		2009	R0097	1114	R1215(HEP)	1067
Q5077A(,2SA608AE)	2023	Q5183(,2SC945P)	2009	QB01-05M	565	QRT-220	1101	QT0100(,2SC1740)	2009	R0098	1114	R1217(HEP)	1067
	2023	Q5183(,2SC945Q)	2009	QB01-15ZB	564	QRT-222	1101	QT0100(,2SC1740Q)		R02-2AV	1114	R1218	1067
Q5077A(,2SA608E)	2023	Q5183C	2009	QB106P	561	QRT-223	1101		2009	RO2A	1114	R1329	1104
Q5077A(,2SA608F)	2023	Q5183C(,2SC945Q)	2009	QB112	563	QRT-235	565	QT0100(,2SC1740R)		RO2B	1114	R-1348	563
Q5077E	2023	Q5183C(,2SC945R)	2009	QB115ZB	564	QRT-237	561		2009	RO2C	1114	R1667	1123
Q5077E(,2SA608(F))	2023	Q5183P	2009	QB115ZBV	564	QRT-240	562	QT0100R	2009	RO2K	1114	R1711	1000
	2023	Q5205	2023	QB115ZD	564	QRT-243	563	QT-A0719AXN	2023	RO2Z	1143	R1712	1000
Q5077EA	2023	Q5205(,2SA509Y)	2023	QC0042	1771	QRT-245	564	QT-A0719XAN	2023	R06-1001	2016	R1713	1060
Q5077EA(,2SA608A(E))	2023	Q5207	2055	QC0343	2413	QRT-263	1123	QT-A0719XCN	2023	R06-1002	2016	R1715	1000
	2023	Q5207Z	2055	QD-2M205XE	565	QRT-267	1617	QT-A0719XHN	2023	R06-1003	2016	R1723	1000
Q5077EA(,2SA608A(F))	2023	Q5209(,2SC683P)	2016	QD-G1N60PXT	1123	QRT-268	1617	QT-A0733XAA	2023	R06-1004	2016	R1889	1123
	2023	Q5209(,2SC683Q)	2016	QD-G1N60XXT	1123	QRT-269	2023	QT-A0733XDN	2023	R06-1005	2016	R2159	1104
Q5078Z	2009	Q6562	2023	QD-G1S32XXT	1123	QRT-270	2023	QT-A0733XON	2023	R06-1006	2016	R2164	1123
Q5083B	2041	Q6562(,2SA1015(G))	2023	QD-S1S953XA	1122	QRT-271	2023	QT-A562	2023	RO80	1114	R2252	1104
Q5094Z	2055		2023	QD-SMA150XN	1122	QRT-300	2009	QT-A0719XAN	2023	RO102	1104	R-2436	2055
Q5095ZEE	2055	Q6562(,2SA1015(O))	2023	QD-S51555XT	1122	QRT-302	2009	QT-C0372XAT	2009	RO804	1173	R2442	1104
Q5099E	2030		2023	QD-S51885XT	1102	QRT-303	2023	QT-C0460CBB	2009	RO851	1171	R2473	2016
Q5099E	2030	Q6562(,2SA1015(Y))	2023	QD-S5R1KX4P	1104	QRT-308	2009	QT-C0710XAE	2009	RO852	1171	R2476	2016
Q5102	2030		2023	QD-S5S53XXA	1122	QRT-309	2009	QT-C0710XBE	2009	RO855	1173	R2477	2016
Q5102(,2SA564(Q))	2023	Q6562(,2SA1015(G))	2023	QD-SV06CXXB	1102	QRT-312	1617	QT-C0710XEE	2009	RO7105	563	R2982	2041
	2023	Q6562(,2SA1015(Y))	2023	QD-ZM2205XE	565	QRT-313	2016	QT-C0735XBT	2009	R-1	1104	R3283	1617
Q5102(,2SA564(R))	2023	Q6562G	2023	QD-ZM2205XE	565	QRT-313	2016	QT-C0828XAN	2009	R1	1104	R3285	1104
Q5102(,2SA564R)	2023	Q6562G(,2SA1015(O))	2023	QD-ZM2306CE	561	QRT-313	2009	QT-C0828XDN	2009	R-1A	1104	R3293(GE)	1617
Q5102(,2SA564S)	2023		2023	QD-ZM2409BE	562	QRT-313	2009	QT-C0829XAN	2009	R1A	1104	R3508	2030
Q5102A	2023	Q6562G(,2SA1015(Y))	2023	QD-ZRD9EXAA	562	QRT-313	2009	QT-C0829XBN	2009	R-1B	1143	R3608	2030
Q5102A(,2SA564(Q))	2023		2023	QD-ZRD56EAA	561	QRT-313	2009	QT-C0829XON	2009	R1B	1104	R3608-1	2030
	2023	Q6365	2009	QD-ZRD56EAA	561	QRT-313	2009	QT-C0839XDA	2009	R1C	1102	R3608-2	2030
Q5102A(,2SA564(R))	2023	Q6565(,2SA1015(G))	2023	QD-ZRD56EAA	561	QRT-313	2009	QT-C0900XBA	2016	R-1S188	1123	R3619-3	1000
	2023	Q6565(,2SA1015(Y))	2023	QD-ZRD56EAA	561	QRT-313	2009	QT-C0900XBD	2016	R2D	563	RA057	1617
Q5102A(,2SA564(Q))	2023	Q6565(,2SC1815(G))	2009	QD-ZRD56EAA	561	QRT-313	2009	QT-C0900XCA	2016	R2E	564	R4369	2041
	2023		2009	QD-ZRD56EAA	561	QRT-313	2009	QT-C0945ACA	2009	R2H	1102	R5048	2030
Q5102A(,2SA564A(Q))	2023	Q6565(,2SC1815(O))	2009	QD-ZRD56EAA	561	QRT-313	2009	QT-C0945AGA	2009	R-2SC535	2016	R5096	1123
	2023		2009	QD-ZRD56EAA	561	QRT-313	2009	QT-C1318XDN	2009	R-2SC537	2009	R5522	1123
Q5102A(,2SA564A(R))	2023	Q6565(,2SC1815(Y))	2009	QD-ZRD56EAA	561	QRT-313	2009	QT-C10475AN	2016	R-2SC545	2016	R5862	1123
	2023		2009	QD-ZRD56EAA	561	QRT-313	2009	QT-C1047XAN	2016	R-2SC668	2016	R5970	1104
Q5102A(,2SA564A(Q))	2023	Q6565(,2SC1815(G))	2009	QD-ZRD56EAA	561	QRT-313	2009	QT-C1047XBN	2016	R-2SC772	2058	R5971	1104
	2023		2009	QD-ZRD56EAA	561	QRT-313	2009	QT-C1318XAN	2009	R-2SC858	2016	R6048	1104
Q5102A(,2SA564A(R))	2023	Q6627	2062	QD-ZRD56EAA	561	QRT-313	2009	QT-C1318XDN	2009	R3	1101	R6109	1123
	2023	Q6780	2009	QD-ZRD56EAA	561	QRT-313	2009	QT-C1359XAN	2009	R3/2H	1104	R6110	1104
Q5102A(,2SA564Q)	2023	Q6780Z	2009	QD-ZRD56EAA	561	QRT-313	2009	QT-C1687XAN	2058	R-4A	1144	R6422	1104
	2023	Q7219	038	QD-ZRD56EAA	561	QRT-313	2009	QT-C1687XAN	2058	R4A	1104	R-7026	1122
Q5102A(,2SA564R)	2023	Q7393	2413	QD-ZRD56EAA	561	QRT-313	2009	QT-CBC546AA	2016	R5	1114	R-7027	1122
Q5102P	2023	Q-10115C	2009	QD-ZRD56EAA	561	QRT-313	2009	QT-C0372XAT	2016	R5	1114	R-7027	1122
Q5102Q	2023	Q-11115C	2020	QD-ZRD56EAA	561	QRT-313	2009	QT-C0710XBE	2009	R-5B	1143	R7028	1123
Q5102QA	2023	Q-12115C	2020	QD-ZRD56EAA	561	QRT-313	2009	QT-C0828XDN	2016	R5B	1114	R-7029	1123
Q5102QA(,2SA564A(R))	2023	Q-13115C	2009	QD-ZRD56EAA	561	QRT-313	2009	QT-C0900XCA	2016	R-5C	1143	R7029	1123
	2023	Q-14115C	2009	QD-ZRD56EAA	561	QRT-313	2009	QT-C0945ACA	2016	R5C	1114	R-7051	1123
Q5102R	2023	Q-15115C	2009	QD-ZRD56EAA	561	QRT-313	2009	QT-CQ460CBB	2009	R6	1114	R-7093	561
Q5110Z	2041	Q-16115C	2009	QD-ZRD56EAA	561	QRT-313	2009	QT-D0313XAC	2020	R6/2H	1104	R-7096	1102
Q5111ZK	2055	Q-20115C	1123	QD-ZRD56EAA	561	QRT-313	2009	QT-D0325XAC	2020	R8	1114	R-7103	563
Q5116C	2023	Q-21115C	1123	QD-ZRD56EAA	561	QRT-313	2009	QT-D0525XDT	2020	R8/2H	1114	R7162	1104
Q5116CA	2023	Q-22115C	1123	QD-ZRD56EAA	561	QRT-313	2009	QTD0704XAE	2020	R9-56	025	R7163	1617
Q5121O	2016	Q-23115C	1122	QD-ZRD56EAA	561	QRT-313	2009	QT-K0023AAS	2035	R9A	1104	R7165	1617
Q5121Q	2009	Q-25115C	562	QD-ZRD56EAA	561	QRT-313	2009	QT-K0033XAE	2035	R10D1	1104	R7248	1104
Q5121R	2016	Q-26115C	1104	QD-ZRD56EAA	561	QRT-313	2009	QT-K0033XBE	2035	R10DC	1104	R7249	1617
Q5123E	2009	Q35242	2009	QD-ZRD56EAA	561	QRT-313	2009	QTVCM-81	705	R60-1007	1123	R7271	1104
Q5123F	2009	Q35259	2016	QD-ZRD56EAA	561	QRT-313	2009	QTVCM-500	1801	R66-8504	1104	R7343	1617
Q5124	2009	Q50787	2009	QD-ZRD56EAA	561	QRT-313	2009	QTVCM-505	1808	R118	2016	R7359	1617
Q5132Z	2055	Q50787Z	2009	QD-ZRD56EAA	561	QRT-313	2009	QVDF114	1123	R122C	1104	R7360	1617
Q5135	2023	Q51210	201										

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R8023	1122	RA1A	1122	RC723D	1740	RD4.7J-B1	565	RD6.2F	561	RD12F(B1)	563	RE49	1104
R8024	1104	RA-1B	1114	RC741DE	007	RD4.7J-B2	565	RD6.2F8	561	RD12FA	563	RE-51	1114
R8060	1123	RA1B	1104	RC741DN	007	RD4.7JB2	565	RD6.2FB1	561	RD12FB	563	RE51	1114
R8061	1123	RA-1C	1114	RC741N	007	RD4.7JB3	565	RD6.2FB2	561	RD12FB1	563	RE-52	1104
R8066	1617	RA1C	1114	RC741NB	007	RD4.7J5B2	565	RD6.2FB3	561	RD12FB2	563	RE52	1122
R8067	1617	RA-1Y	1104	RC1458DE	038	RD4.7J5B3	565	RD6.2JB	561	RD12FB3	563	RE-61	2043
R8068	1617	RA-1Z	1104	RC1458DN	038	RD4.7M	565	RD6.2JB2	561	RD12FBT	563	RE61	2043
R8069	1617	RA1Z	1104	RC1458NB	038	RD-5A	565	RD6.2L	561	RD12JB	563	RE62	2023
R8070	1617	RA-1ZC	1104	RC1700	2041	RDSA	565	RD6.2M	561	RD12JB2	563	RE63	2023
R8115	1617	RA1ZC	1104	RC2041M	038	RDSAL	565	RD6.2MB	561	RD12M	563	RE64	2016
R8116	1617	RA-2	1114	RC2043NB	038	RDSAM	565	RD6.3EB1	561	RD12MB	563	RE66	2009
R8117	1617	RA2	1114	RC2270	2030	RDSAN	565	RD9	562	RD13AL	563	RE-67	2016
R8118	1617	RA2A	1114	RC3302DB	1712	RDSB	565	RD-9A	562	RD-13AN	563	RE67	2016
R8119	1617	RA-2C	1114	RC4558	038	RDSE-C	565	RD9A	562	RD13BL	563	RE70	2030
R8120	1617	RA2C	1114	RC4558DE	038	RDSR1EB	565	RD9A(10)	562	RD13CL	563	RE72	2023
R8219	1123	RA102AA	1104	RC4558JG	038	RDSR1EB2	565	RD-9AL	562	RD13K	563	RE-82	2043
R8223	1617	RA102BA	1104	RC4558NB	038	RDSR1EBB1	565	RD9AL	562	RD15E	564	RE82	2043
R8224	1617	RA102CA	1104	RC4558P	038	RDSR1JB1	565	RD9AM	562	RD15EA	564	RE86	1123
R8225	1617	RA102DA	1104	RC4559DE	038	RDSR1JB3	565	RD9A-N	562	RD15EB	564	RE-88	1101
R8243	1617	RA102EA	1104	RC4559NB	038	RD5.1(E)B3	565	RD9AN	562	RD15EB2	564	RE88	1101
R8244	1617	RA102FA	1104	RCA1A01	2030	RD5.1E	565	RD9B	562	RD15E-B3	564	RE-89	1101
R8257	1123	RA102GA	1104	RCA1A06	2030	RD-5.1EB	565	RD9R1EB	562	RD15EB3	564	RE89	1101
R8259	1617	RA102HA	1104	RCA1A07	2030	RD5.1E-B	565	RD9R1EW	562	RD15EB3-0.4W	564	RE-90	1114
R8260	1617	RA102KA	1104	RCA1A17	2030	RD5.1EB	565	RD-9.1	562	RD15EB3Z	564	RE90	1114
R8261	1617	RA102MA	1104	RCA1A18	2030	RD5.1EB(2)	565	RD-9.1E	562	RD15EC	564	RE-91	1101
R8305	1617	RA102PA	1114	RCA1B06	2041	RD5.1EB(2)-T4	565	RD9.1E	562	RD15E-N1	564	RE91	1101
R8312	1617	RA102RA	1114	RCA1C03	2020	RD5.1EB(3)	565	RD9.1EB	562	RD15E-N3	564	RE92	1114
R8314	1122	RA102TA	1114	RCA1C05	2020	RD5.1EB1	565	RD-9.1EB(1)	562	RD15EN3	564	RE-94	1122
R8364	563	RA102VA	1114	RCA1C07	2020	RD5.1E-B2	565	RD9.1EB1	562	RD15F	564	RE94	1122
R8470	1104	RA132AA	1114	RCA1C09	2020	RD5.1EB-2	565	RD9.1EB2	562	RD15F1	564	RE-104	565
R8473	1104	RA132BA	1114	RCA1C10	2020	RD5.1EB2	565	RD9.1E-B3	562	RD15FA	564	RE104	565
R8475	1123	RA132CA	1114	RCA1C12	2020	RD5.1E-B3	565	RD9.1EB3	562	RD15FB	564	RE-105	565
R8477	1101	RA132DA	1114	RCA1C14	2020	RD5.1EB3	565	RD9.1EBT	562	RD15FM	564	RE105	565
R8528	1617	RA132EA	1114	RCA29	2020	RD5.1E-C	565	RD9.1EC	562	RD15FMZ	564	RE-108	561
R8529	2016	RA132FA	1114	RCA29A	2020	RD-5.1EC	565	RD9.1ED	562	RD15JB3	564	RE108	561
R8530	1617	RA132GA	1114	RCA29ASDH	2020	RD5.1EC	565	RD9.1EK	562	RD15M	564	RE-109	561
R8543	1617	RA132HA	1114	RCA29B	2020	RD5.1E-N1	565	RD9.1EL3	562	RD15MB	564	RE109	561
R8551	1617	RA132KA	1114	RCA29B5SDH	2020	RD5.1EN1	565	RD9.1E-N3	562	RD16AM	564	RE113	562
R8552	1617	RA132MA	1114	RCA29C	2020	RD5.1E-N2	565	RD9.1EN3	562	RD-16H	564	RE-114	562
R8553	1617	RA132PA	1114	RCA29C5SDH	2020	RD5.1EN2	565	RD9.1EW	562	RD16H	564	RE114	562
R8554	1617	RA132RA	1114	RCA29SDH	2020	RD5.1E-N3	565	RD9.1F	562	RD15TB	565	RE-117	563
R8555	1617	RA132TA	1114	RCA30	2027	RD5.1EN3	565	RD9.1FA	562	RD-91	562	RE117	563
R8556	1617	RA132VA	1114	RCA30A	2027	RD5.1E5-B2	565	RD-9.1FB	562	RD-91E	562	RE-118	563
R8557	1617	RA162AA	1114	RCA31	2020	RD5.1E5B2	565	RD9.1FB	562	RD91E	562	RE118	563
R8560	1101	RA162BA	1114	RCA31A	2020	RD5.1E5-T2B2	565	RD9.1F-B3	562	RD151	1173	RE-121	564
R8620	1617	RA162CA	1114	RCA31ASDH	2020	RD5.1F	565	RD9.1FB3	562	RD152	1173	RE121	564
R8645	1114	RA162DA	1114	RCA31B	2020	RD5.1FB	565	RD9.1FC	562	RD153	1173	RE-168	1067
R8646	1617	RA162EA	1114	RCA31B5SDH	2020	RD5.1F-B3	565	RD9.1JB	562	RD154	1173	RE168	1067
R8647	1617	RA162FA	1114	RCA31C	2020	RD5.1JB	565	RD9.1JB2	562	RD250	1104	RE-171	1067
R8648	1617	RA162GA	1114	RCA31C5SDH	2020	RD5.1JB1	565	RD9.1JM	562	RD515	1122	RE171	1067
R8649	2030	RA162HA	1114	RCA315DH	2020	RD5.1JB2	565	RD9.1MB	562	RD1212EB-T4	563	RE174	1020
R8658	1617	RA162KA	1114	RCA41A	2020	RD5.6EC	561	RD10EN1T	562	RD3472	1104	RE179	1000
R8887	1123	RA162MA	1114	RCA41B	2020	RD6A	561	RD11EC	563	RD9037	1104	RE182	1000
R8889	1617	RA162PA	1114	RCA41C	2020	RD6R2B2	561	RD11EE	1104	RD26235-1	1104	RE185	1000
R8900	1617	RA162RA	1114	RCA120	2068	RD6R2EB	561	RD12	563	RD29799P	1104	RE-192	2016
R8914	1617	RA162TA	1114	RCA121	2068	RD6R2EB1	561	RD12-OF	563	RD31903P	1104	RE192	2016
R8915	2030	RA162VA	1114	RCA520	2020	RD6.2-EM	561	RD12B	563	RD12E-B	563	RE-193	2023
R8916	1617	RA751AA	1104	RCA521	2020	RD6.2E	561	RD12E	563	RE2	1104	RE193	2023
R8963	1617	RA751BA	1104	RCA3054	2020	RD6.2E(B1-B3)	561	RD12EA	563	RE3	1104	RE205	2020
R8964	1617	RA751CA	1104	RCA3055	2020	RD6.2E(B2)	561	RD12E-B	563	RE-9	2016	RE218	1067
R8965	1617	RA751DA	1104	RCA40245	2016	RD6.2E(B3)	561	RD-12EB	563	RE9	2016	RE222	2020
R8966	1617	RA751EA	1104	RCA40246	2016	RD6.2E(FA-1)	561	RD12EB	563	RE-10	2016	RE233	2055
R8967	2023	RA751FA	1104	RCC7022	1101	RD6.2E-B	561	RD12EB(1)	563	RE10	2016	RE235	2023
R8968	1617	RA751GA	1104	RC5242	2041	RD-6.2EB	561	RD-12EB(3)	563	RE-12	1617	RE246	1067
R8969	2023	RA751HA	1104	RD-3	1104	RD6.2EB	561	RD12EB(3)	563	RE12	1617	RE247	1067
R8970	1123	RA751KA	1104	RD3A-1B4	1104	RD6.2EB(1)	561	RD12EB(3)-T4	563	RE-13	1617	RE248	1067
R9004	1617	RA751MA	1104	RD4R7	565	RD6.2EB(3)	561	RD12EB(AU)	563	RE13	1617	RE255	1171
R9005	1617	RA751PA	1114	RD4R7EB	565	RD6.2EB(3)-T4	561	RD12E-B1	563	RE-17	2030	RE258	2041
R9006	1617	RA751RA	1114	RD4R7EB2	565	RD6.2E-B1	561	RD12EB-1	563	RE17	2030	RE260	2058
R9025	1617	RA751TA	1114	RD4R7JB3	565	RD6.2EB1	561	RD12EB1	563	RE-19	2041	RE261	2009
R9071	1617	RA751VA	1114	RD4R7JSB2	565	RD6.2E-B2	561	RD12E-B1Z	563	RE19	2041	RE263	2009
R9384	1617	RB-150	1173	RD4R7JSB3	565	RD6.2EB2	561	RD12EB1Z	563	RE-21	2020	RE357-IC	705
R9385	1617	RB150	1173	RD4.3EC	565	RD6.2EB2-0.4W	561	RD12E-B2	563	RE21	2020	RE382-IC	1801
R9470	1104	RB-151	1173	RD4.7BE	565	RD6.2EB 2-TA11R	561	RD12EB-2	563	RE-26	2023	RE1001	2016
R9483	1617	RB151	1173	RD4.7E	565	RD6.2EB-3	561	RD12EB2	563	RE26	2023	RE1002	2016
R9590	1123	RB-152	1173	RD-4.7EB	565	RD6.2E-B3	561	RD12E-B2Z	563	RE-28	2016	RE2001	2016
R9597	1104	RB152	1173	RD4.7EB	565	RD6.2EB3	561	RD12E-B3	563	RE28	2016	RE2002	2016
R9600	2058	RB153	1173	RD4.7EB1	565	RD6.2EB23	561	RD12EB3	563	RE31	2055	RE3001	2016
R10564	1101	RB154	1173	RD4.7EB2	565	RD6.2EC	561	RD12EBD	563	RE-32	2055	RE3002	2016
R106379	1104	RB602	1181	RD4.7EB3	565	RD6.2EFA-1	561	RD12EBH	563	RE32	2055	RE4001	2016
R112524	1123	RC080	1114	RD4.7EB3T	565	RD6.2EFA1	561	RD12EBM	563	RE-42	2017	RE4002	2016
R113321	1104	RC185-6	1114	RD4.7EC	565	RD6.2EL2	561	RD12EB-T4	563	RE42	2017	RE4010	2016
R113392	1104	RC555	1723	RD4.7EN-1	565	RD6.2E-N1	561	RD12EC	563	RE45	2035	RE5001	2016
R1500715	1114	RC555DE	1723	RD4.7EN1	565	RD6.2E-N1TN	561	RD12E5-B2	563	RE46	2035	RE5002	2016
R2400730	1114	RC555NB	1723	RD4.7ES-B1	565	RD6.2E-N2	561	RD12E5-T2B2	563	RE-47	1104	RECT-SI-154	1104
RA-1	1104	RC556DB	1728	RD4.7F	565	RD6.2EN2	561	RD12E-T2	563	RE47	1123	RECT-SI-154(AU)	1104
RA-1A	1104	RC556DC	1728	RD4.7FB	565	RD6.2E5-B2	561	RD12F	563	RE-49	1104	RECT-SI-1001	1103

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RECT-SI-1002	1104	RF1A	1104	RGP10D	1104	RH-DX0126CEZZ(TVR15	1104	RM1A	1104	RS200	1171	RS710A	1617
RECT-SI-1002(AU)	1104	RF1B	1104	RGP10DG1	1102	(TP)	1104	RM1AV	1104	RS104	1175	RS710B	2614
RECT-SI-1005	1104	RF-1Z	1104	RGP-10G	1104	RH-DX0130CEZZ	1104	RM-1B	1114	RS200AF	1104	RS7110	2616
RECT-SI-1020	1104	RF1Z	1104	RGP10G	1104	RH-DX0131CEZZ	1104	RM1B	1116	RS236AF	1104	RS711	1417
RECT-SI-1021	1104	RF101	1101	RGP-10J	1104	RH-DX0136TAZZ	1114	RM1C	1114	RS-253C	1122	RS712	2616
RECT-SI-1026(AU)	1104	RF200	2016	RGP10J	1104	RH-DX0142CEZZ	1122	RM15	1104	RS-2535	1122	RS7113	2016
RECT-SI-1030	1104	RF300	1102	RGP10J,G23	1104	RH-DX0154CEZZ	1102	RM-1V	1104	RS-2675	1122	RS7114	2058
RECT-SI-1039	1103	RF1811	1123	RGP10JG23	1104	RH-DX0155CEZZ	1102	RM-1Z	1104	RS-272U5	1122	RS7115	2016
RECT-SI-1044	1104	RF3160	1104	RGP20GL	1114	RH-DX0202CEZZ	1104	RM1Z	1104	RS-279U5	2016	RS7116	2016
RECT-SI-1044(AU)	1104	RF3472	1104	RGP25K	1114	RH-DX0204CEZZ	1122 N3	RM1ZM	1104	RS-2805	1122	RS7117	2016
RECT-UG-1003	1171	RF5794	1101	RGP25M	1114	RH-DX0220CEZZ	1102	RM1ZMV	1104	RS555	1723	RS7118	2016
RECT-UG-1004	1173	RF-6235-1	1104	RGP-100	1104	RH-DX0236CFZZ	1122	RM-1ZV	1104	RS-805U5	2009	RS7119	2016
REJ70643	1104	RF26231-1	1104	RGP5040	1104	RH-DX0237CFZZ	1122	RM1ZV	1104	RS1049	1617	RS7120	2016
REJ70931	1104	RF26234-1	1104	RGP5080	1114	RH-DX0248CFZZ	1104	RM-2	1114	RS1059	1617	RS7121	1617
REJ71253	1122	RF26235-1	1104	RGP10J	1104	RH-DX1005FAZZ	1104	RM2	1114	RS1264	1104	RS7122	2016
REN61	2043	RF26235-2	1104	RH-1	1104	RH-DY00035EZZ	1104	RM2-C-Z	1114	RS1290	1104	RS7123	2016
REN62	2023	RF26235-5	1104	RH1	1104	RH-EX002YTAZZ	565	RM-2A	1114	RS1296	1104	RS7124	2016
REN63	2023	RF29799P	1104	RH-1A	1104	RH-EX0011GEZZ	564	RM-2AV	1114	RS-1347	1104	RS7125	2016
REN64	2016	RF31903P	1104	RH1A	1104	RH-EX0015CEZZ	563	RM2B	1114	RS1347	1104	RS7126	2016
REN67	2016	RF32101-8	1104	RH-1BV	1104	RH-EX0017CEZZ	563	RM-2C	1114	RS1346	563	RS-7127	2009
REN70	2030	RF32101-9	1104	RH-1M	1104	RH-EX0019GEZZ	564	RM2C	1114	RS1428	1122	RS7127	2009
REN90	1114	RF32101R	1104	RH1M	1104	RH-EX0020GEZZ	565	RM2CS	1114	RS1458	028	RS7128	2016
REN94	1122	RF32412-3	1104	RH-1S	1104	RH-EX0024CEZZ	561	RM2C-Z	1114	RS-1720	1104	RS-7129	2009
REN107	2016	RF32426-7	1122	RH1S	1104	RH-EX0024TAZZ	565	RM-25C	1114	RS1720	1104	RS-7129	2009
REN108	2016	RF32645	1104	RH1SV	1104	RH-EX0038CEZZ	563	RM-2V	1114	RS1726	1104	RS7132	1617
REN109	1123	RF33550-1	1123	RH-1S-Z	1104	RH-EX0038CEZZ	563	RM2Z	1114	RS1749	1104	RS7133	1617
REN110	1123	RF33976	1104	RH-1V	1104	(,EX0038CE)	563	RM4	1114	R-51805	1144	RS7135	2016
REN114	1101	RF34383	1104	RH-1ZV	1104	RH-EX0047CEZZ	563	RM4A	1114	RS1805	1104	RS7136	1617
REN115	1101	RF34661	1122	RH120	1617	RH-EX0047CEZZ(,H-	563	RM4B	1114	RS1805	1123	RS7138	2016
REN116	1104	RF34720	1104	RH-DX0008CEZZ	1104	EX0047C	563	RM4C	1114	RS1811	1104	RS7139	2016
REN126	1101	RF35123	1123	RH-DX0014-CEZZ	1104	RH-EX0048CEZZ	561	RM4Y	1114	RS-2009	2009	RS7140	2016
REN123	1617	RF60034	1123	RH-DX0025CEZZ	1104	RH-EX0048CEZZ	561	RM4Z	1114	RS-2009	1617	RS7141	2016
REN123A	2009	RF70597	1104	RH-DX0026AGZZ	1104	(,EX0048CE)	561	RM10	1114	RS-2010	2009	RS7142	2016
REN125	1114	RF70600	1104	RH-DX0039TAZZ	1122	RH-EX0049CEZZ	565	RM10A	1114	RS2010	2009	RS7143	2016
REN128	2030	RF61197	1104	RH-DX0038CEZZ	1103	RH-EX0057GEZZ	561	RM10B	1114	RS-2011	2016	RS7144	2016
REN130	2041	RFJ6134	1104	RH-DX0039CEZZ	1104	RH-EX0061CEZZ	563	RM10M	1114	RS-2013	2009	RS7145	2016
REN132	2035	RFJ30704	1104	(,DX0038CE)	1103	RH-EX0131CEZZ	565	RM10MV	1114	RS-2013	2009	RS7160	1617
REN133	2035	RFJ31218	1104	RH-DX0042CEZZ	1104	RH-EX0137CEZZ	565	RM10Z	1114	RS-2014	2030	RS7161	2016
REN135	565	RFJ31362	1104	RH-DX0043TAZZ	1104	RH-EX0137TAZZ	565	RM11	1114	RS-2015	2016	RS7162	2016
REN137	561	RFJ31363	1104	RH-DX0046CEZZ	1122	RH-EX0139CEZZ	565	RM11A	1114	RS-2016	2009	RS7163	2016
REN139	562	RFJ33292	1104	RH-DX0048CEZZ	1122	RH-EX0192CEZZ	561	RM11B	1114	RS2016	2009	RS7164	2016
REN141	563	RFJ60172	1123	RH-DX0054CEZZ	1122	RH-EX0208CEZZ	561	RM11BV	1114	RS2017	2029	RS7165	2016
REN142	563	RFJ60173	1104	RH-DX0055FAZZ	1104	RH-EX0217CEZZ	561	RM11C	1104	RS2018	2020	RS7166	2016
REN145	564	RFJ60174	1104	RH-DX0056CEZZ	1104	RH-EX0247CEZZ	561	RM15	1114	RS2019	2020	RS7167	2016
REN152	2020	RFJ60286	1104	RH-DX0059FAZZ	1104	RH-IX0012PAZZ	1802	RM-1003	1114	RS-2021	2023	RS7168	2016
REN153	2027	RFJ60366	1104	RH-DX0064CEZZ	1104	RH-IX0014PAZZ	1770	RM3005	1104	RS-2022	2023	RS7169	2016
REN156	1114	RFJ60614	1123	RH-DX0065CZZ	1104	RH-IX0069CEZZ	2401	RM4558	038	RS-2022	2023	RS7170	2016
REN159	2023	RFJ60869	1104	RH-DX0066TAZZ	1104	RH-IX0072CEZZ	2411	RM4V	1104	RS2022	2023	RS7171	2016
REN161	2016	RFJ70147	1144	RH-DX0067TAZZ	1104	RI4010658	1122	RMP5020	1104	RS-2023	2023	RS7173	2058
REN164	2055	RFJ70432	1104	RH-DX0068TAZZ	1104	RL005	1114	RMPTC0059CEZZ	1122	RS-2024	2023	RS7174	2016
REN165	2055	RFJ70487	1104	RH-DX0069FAZZ	1103	RL010	1114	N5	RS2025	2027	RS7175	2016	
REN166	1171	RFJ70643	1101	RH-DX0072CEZZ	1104	RL020	1114	RMPTJ0029CEZZ	561 N5	RS-2028	2035	RS7176	2016
REN167	1122	RFJ70703	1104	RH-DX0073CEZZ	1104	RL040	1114	RMVTC009921-3	1101	RS-2030	1617	RS7177	2016
REN177	2017	RFJ70931	1104	RH-DX0079FAZZ	1104	RL060	1114	RO2	1114	RS-2031	2009	RS-7201	2016
REN186	2020	RFJ70970	1104	RH-DX0081CEZZ	1104	RL31	1123	RO2A	1114	RS-2032	2023	RS7202	2016
REN196	2016	RFJ70974	1104	RH-DX0081FAZZ	1104	RL32	1123	RO2Z	1114	RS-2033	1104	RS-7202	2016
REN199	2043	RFJ70977	1104	RH-DX0083CEZZ	1104	RL32G	1123	RO102	1104	RS-2034	2023	RS7202	2016
REN219	2041	RFJ71122	1104	RH-DX0085FAZZ	1104	RL34	1123	RP4Z	1114	RS2039	2041	RS7205	2016
REN223	2058	RFJ71123	1114	RH-DX0086FAZZ	1104	RL34G	1123	RQ-4095	1104	RS2040	2043	RS7210	2016
REN229	2009	RFJ71480	562	RHDX0086TAZZ	1104	RL41	1123	RQ-4445	2009	RS2041	2041	RS7211	2016
REN234	2023	RFJ72360	1104	RH-DX0086FAZZ	1104	RL41G	1123	RR7504	1617	RS2043	2043	RS7211	2016
REN238	2055	RFJ72787	1104	(,DX0086CE)	1104	RL42	1123	RR8068	1617	RS2801	1123	RS7212	2016
REN280	2041	RFJ30596	1104	RH-DX0086FAZZ(,RH1S)	1104	RL43	1123	RRB070	2016	RS2914	1617	RS7214	2016
REN289	2009	RFM33160	1104		1104	RL43G	1123	RR8116	2016	RS3570	1104	RS7215	2016
REN290	2023	RFV33118	1104	RH-DX0091CEZZ	1114	RL44G	1123	RR8118	2016	RS3727	1104	RS7216	2016
REN291	2020	RFV60500	1104	RH-DX0092CEZZ	1114	RL52	1123	RR8119	2016	RS4001	2401	RS7217	2016
REN1155	705	RG010G	1104	RH-DX0101 CEZZ	1104	RL101F	1104	RR8914	1617	RS4011	2411	RS7218	2016
REN5069	565	RG1	1104	RH-DX0101CEZZ	1104	RL102F	1104	RR8989	2016	RS4013	2413	RS7219	2016
REN5070	561	RG1A	1104	RHDX0101CEZZ	1104	RL103F	1104	RR8999	2016	RS4017	2417	RS7220	2016
REN5073	562	RG1B	1104	RH-DX0105FAZZ	1104	RL104F	1104	RRB24-06	1104	RS4049	2449	RS7221	2016
REN5400	1067	RG1D	1104	RH-DX0105FAZZ	1104	RL105F	1104	RS-05	1141	RS5851	1617	RS7221	2016
REN5401	1067	RG1G	1104	(,DX0105TA)	1104	RL-152	1143	RS05	1141	RS5853	1617	RS7222	1617
REN5402	1067	RG1J	1104	RH-DX0105FAZZ(TVR1	1104	RL209-1	1104	RS1	1104	RS5956	2009	RS7224	1617
REN5403	1067	RG100R	1104	(TP)	1104	RL232G	1123	RS1FM-12	1104	RS5857	2009	RS7225	2016
REN5404	1067	RG100G	1104	RH-DX0106CEZZ	1104	RL246	1123	RS1Z	1104	RS6344	1104	RS7226	1617
REN5454	1067	RG100G	1104	RH-DX0110CEZZ	1103	RL247	1123	RS10	1104	RS6461	1104	RS7227	2016
REN5455	1067	RG100J	1104	RH-DX0110CEZZ	1104	RL247G	1123	RS101	1171	RS6471	1104	RS7228	2016

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RS7241	2009	RS8113	2030	RT-263	1123	RT5204	2009	RT7511	1617	RU-3B	1104	RVDS5D-1U	1104
RS7242	2009	RS8430	1104	RT-267	1617	RT5205	2016	RT7514	2009	RU3B	1104	RVDS5D-1Y	1104
RS7333	2016	RS8442	2009	RT-268	1617	RT5206	2009	RT7515	1617	RUD2DP22/1B	1104	RVDS5G-5N	1114
RS7334	2016	RS8503	2009	RT-269	2023	RT5207	2023	RT7517	1617	RV06	1104	RVDS5G-5P	1114
RS7400	1801	RS9510	2016	RT-270	2023	RT5208	2016	RT7518	1617	RV1	1104	RVDSMIA02TPA	1104
RS7404	1802	RS9511	2016	RT-302	2009	RT5212	1123	RT7528	1617	RV2	1104	RVDSR3AM2N	1104
RS7405	1617	RS9512	2016	RT-303	2023	RT5213	1123	RT7538	1123	RV6.2	561	RVDVD1250M	1122
RS7406	1617	RSLNA0004CEZZ	1101	RT304	2009	RT5214	1123	RT7539	561	RV555NB	1723	RV525C645	2016
RS7407	1617	RSWY16L7Z	1123	RT-308	2016	RT5217	1122	RT7557	2009	RV556DB	1728	RVTC51381	1617
RS7408	1617	RT-100	1617	RT-309	2009	RT5219	1123	RT7559	2016	RV741NB	007	RVTC51382	2023
RS7408(IC)	1822	RT100	1617	RT-312	1617	RT5385	1104	RT7634	1104	RV1017	1122	RVTC51383	1617
RS7409	1617	RT-101	1617	RT-313	2016	RT5401	2030	RT7636	1123	RV1059	2023	RVTC51384	2016
RS7410	1617	RT-102	2009	RT476	2009	RT5402	2030	RT7638	1617	RV1068	2016	RVTC51473	2016
RS7411	1617	RT-103	2023	RT482	2030	RT5403	2030	RT7689	1123	RV1189	1102	RVTMCO0921-3	1101
RS7412	1617	RT103	1617	RT483	2030	RT5404	2030	RT7703	2016	RV1226	1122	RVTMK10-2	2035
RS7413	1617	RT-104	2016	RT484	2030	RT5435	2016	RT7704	2016	RV1395	2009	RVTMK10-E	2035
RS7415	1617	RT104	2009	RT697M	1617	RT5464	2016	RT7845	1617	RV1424	1104	RVTS22410	1617
RS7421	1617	RT-105	2016	RT699M	2030	RT5465	2016	RT7848	1141	RV1467	2016	RVTS22411	2023
RS7447	1805	RT105	1617	RT-929-H	1617	RT5470	1123	RT7849	1104	RV1468	2016	RX090	562
RS7490	1808	RT106	2023	RT929H	1617	RT5472	1104	RT7850	1104	RV1469	2016	RX-DX0131CEZZ	1104
RS7504	1617	RT-107	2016	RT930H	2016	RT5551	2009	RT7851	1123	RV1470	2016	RY23	1102
RS7510	1617	RT107	2016	RT1008	1123	RT5554	1122	RT7943	2009	RV1471	2009	RY24	1103
RS7511	2016	RT-108	2016	RT1106	1123	RT5738	1123	RT7945	2030	RV1473	2030	RZ-3	1114
RS7512	2016	RT108	2016	RT1108	1123	RT5793	561	RT7946	1122	RV1474	2009	RZ4.7	565
RS7513	2009	RT-108A	1104	RT1184	1123	RT5900	2009	RT8047	2016	RV1476	1144	RZ5.1	565
RS7513-15	2009	RT-112	2016	RT1395	1617	RT5901	1617	RT8193	1617	RV1478	1104	RZ6.2	561
RS7514	2009	RT112	2016	RT1595	1104	RT5902	2016	RT8195	1617	RV1479	1123	RZ9.1	562
RS7515	2009	RT-113	2016	RT1667	1123	RT5903	2016	RT8197	2009	RV2070	2016	RZ12	563
RS7516	2009	RT113	1617	RT1669	1122	RT5904	2016	RT8198	2009	RV2071	1122	RZ12A	563
RS7517	2009	RT-114	2030	RT-1689	1123	RT5905	2009	RT8201	2009	RV2072	1104	RZ15	564
RS7517-19	2009	RT114	1617	RT1689	1122	RT5906	2030	RT8231	1104	RV2213	562	RZ15A	564
RS7518	2009	RT126	1617	RT1840	1104	RT5907	2030	RT8330	2009	RV2248	2016	RZZ4.7	565
RS7519	2009	RT-126A	2023	RT2016	1617	RT5908	1123	RT8331	2035	RV2249	2009	RZZ5.1	565
RS7520	2016	RT-131	2041	RT2061(G.E.)	1122	RT5909	1122	RT8332	1617	RV2250	1104	RZZ6.2	561
RS7521	2009	RT131	2041	RT2309	2016	RT5911	1104	RT8333	2016	RV2260	2023	RZZ9.1	562
RS7522	2016	RT-133	2020	RT2332	1617	RT5912	1123	RT8335	2020	RV-2289	1104	RZZ12	563
RS7523	2016	RT-134	2016	RT2334	1123	RT5939	1123	RT8336	2027	RV2289	1104	S	562
RS7524	2016	RT-139	2055	RT2451	1123	RT6119	1123	RT8337	2016	RV2351	2023	S0013	2023
RS7525	2009	RT-140	2055	RT2452	1123	RT6157	2016	RT8338	2027	RV2353	2023	S0026	2023
RS7526	2009	RT-141	2030	RT2469	1104	RT6158	2016	RT8339	562	RV2354	2009	S001683	2030
RS7527	2009	RT141	2030	RT2694	1123	RT6159	2016	RT8340	1104	RV2355	2023	S0-4295-10	2041
RS7528	2009	RT-150	2020	RT2914	2009	RT6160	2016	RT8527	1104	RV4558DE	038	S02	1122
RS7529	2009	RT150	2020	RT2915	2016	RT6179	1123	RT8665	1114	RV4558NB	038	S04	1122
RS7530	2009	RT-151	2027	RT3063	1617	RT6180	1123	RT8666	2016	RV4559DE	038	S-05	1104
RS7532	2016	RT151	2027	RT3064	1617	RT6181	1123	RT-8667	2035	RV4559NB	038	S05	1104
RS7533	2016	RT-152	2017	RT3065	2023	RT6182	1123	RT8667	2035	RVDO.8C22/1A	1104	S-05/01	1114
RS7542	2009	RT152	2017	RT3069	2016	RT6183	1123	RT8668	2058	RVDI1E1LF	1104	S-05-005	1104
RS7543	2009	RT-154	2041	RT3070	2016	RT6184	1123	RT8669	2016	RVDI1K110	1123	S-05-01	1104
RS7544	2009	RT154	2030	RT3071	2023	RT6189	1123	RT8670	2023	RVDI1N34A	1123	S-05-02	1104
RS7555	2009	RT-155	2027	RT3072	1123	RT6201	2058	RT8671	1123	RVDI1N4739	562	S-05-04	1104
RS7606	1617	RT155	2027	RT3095	2016	RT6202	2058	RT8840	1104	RVDI1S554	1122	S-05-06	1104
RS7607	1617	RT-158	2020	RT3099	1123	RT6203	2016	RT8841	1104	RVDI1K110	1123	S-05-08	1114
RS7609	1617	RT-164	2020	RT3225	2016	RT-6204	2009	RT8863	2016	RV22DP	1104	S-05-10	1114
RS7610	1617	RT-166	2020	RT3226	2016	RT6204	2009	RT8895	2023	RV22DP22/1B	1104	S010G	1114
RS7611	1617	RT-172	1104	RT3227	2016	RT6322	1104	RT61012	1123	RV22DP22/1C	1171	S031A	1617
RS7612	1617	RT-175	2035	RT3228	1617	RT6332	1104	RTCO103	1067	RV22DP22/18	1104	S037	1617
RS7613	1617	RT175	2035	RT3232	2016	RT6600	2016	RTJ0103	1067	RV22DP22/1B	1171	S042P	2035
RS7614	1617	RT-176	2035	RT3233	1123	RT6600MHF25	2009	RTJ0106	1067	RV22DP221P	1104	S074-007-001	1122
RS7620	1617	RT176	2035	RT3336	1123	RT6601	2058	RTJ0110	1067	RV22P22/1B	1104	S0300K52	1067
RS7621	1617	RT-177	2035	RT3443	1104	RT6602	2058	RTJ0120	1067	RV48265J2	1104	S0303M52	1067
RS7622	1617	RT-187	2009	RT3469	1123	RT6605	1114	RTJ0130	1020	RVDBM84	1171	S0303M53	1067
RS7623	1617	RT-188	2030	RT3558	1104	RT6619	1123	RTJ0140	1020	RVDBM8A	1104	S0303R52	1067
RS7624	2009	RT188	2030	RT3565	1617	RT6728	1123	RTJ0201	1067	RVDI10D1	1104	S0303R53	1067
RS7625	2009	RT-194	2041	RT3567	2009	RT6729	1104	RTJ0203	1067	RVDI10D1C1	1104	S0304F1	1067
RS7626	2009	RT-197	2020	RT3585	1104	RT6731	1123	RTJ0206	1067	RVDI10D1CR	1104	S-0501	1104
RS7627	2009	RT-200	1123	RT3671	564	RT6732	2009	RTJ0210	1067	RVDI10E1	1104	S0501	1104
RS7628	2009	RT-203	1114	RT3858	1104	RT6733	2009	RTJ0215	1020	RVDI10E1LF	1104	S0501L	1104
RS7634	2009	RT-210	1114	RT3981	1104	RT6735	2041	RTJ0220	1067	RVDI10E11F	1104	S0503L53	1114
RS7635	2009	RT210	1114	RT4050	1104	RT6737	2009	RTJ0225	1020	RVDI12B-1	1171	S0503M	1067
RS7636	2009	RT-212	1104	RT4069	1104	RT6787	2016	RTJ0230	1020	RVDC08P1	1104	S0503M52	1067
RS7637	2009	RT-213	1104	RT4232	1104	RT6791	1104	RU-1	1104	RVDC00033	561	S0503M53	1067
RS7638	2009	RT213	1104	RT4293	1123	RT6921	2009	RU1	1104	RVDD1248	1171	S0503R52	1067
RS7639	2009	RT-214	1104	RT4644	1123	RT6921MHF25	2009	RU-1A	1104	RVDD1245	1171	S0503R53	1067
RS7640	2009	RT214	1104	RT4760	2016	RT-6922	565	RU1A	1104	RVDD5.410	1104	S0504F1	1067
RS7641	2009	RT-215	1104	RT4761	2009	RT6922	565	RU-1AV	1104	RVDEQA01065	561	S0515G	1067
RS7642	2009	RT215	1104	RT-4764	1114	RT6989	2009	RU-1V	1104	RVDP05A	1104	S0515H	1067
RS7643	2009	RT-218	1122	RT4764	1104	RT6991	2016	RU1Z	1104	RVDKB162C5	1104	S0702	562
RS7665	2023	RT218	1122	RT4767	1104	RT7320	2016	RU-2	1104	RVDKB265J2	1122	S0704	1617
RS7678	2030	RT-220	1101	RT4880	1123	RT7321	2016	RU2	1104	RVDMZ206	561	S1	1104
RS7814	2009	RT-222	1101	RT5061	2016	RT7322	2009	RU2AM	1104	RVDMZ209	562	S1-1	1104
RS7916	2035	RT-223	1101	RT5070	1104	RT7323	2016	RU2AN	1104	RVDO.8C2211A	1144	S1-RECT-35	1122
RS8101	2030	RT-235	565	RT5151	2030	RT7324	2016	RU2B	1104	RVDR5R6EB	561	S1-RECT-102	1104
RS8103	2030	RT235	565	RT5152	2030	RT7325	2009	RU-2M	1104	RVDR154B	1171	S1A	1104
RS8105	2030	RT-237	561	RT5200	2016	RT7326	2009	RU2M	1104	RVDRDS1AE	565	S1A06	1104
RS8107	2030	RT-240	562	RT5201	2016	RT7327	2009	RU-2V	1104	RVDRDS1EB	565	S1A060	1104
RS8109	2030	RT-243	563	RT5202	2009	RT7330	1123	RU2Z	1104	RVDRDS1EBB1	565	S1A6F	1104
RS8111	2030	RT-245	564	RT5203	2030	RT7402	1171	RU3AN	1104	RVDS5277B	1104	S1A60	1104

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
S1A0	1114	S1 5-0	1104	S4C	1104	S84	1104	S218	1104	S1019	2014	S1374	1417
S1A100	1114	S-1.5-02	1104	S4CN1	1143	S85	1104	S219	1104	S-1019(UN3)	2014	S1384	1123
S1A1	1104	S-1.5-04	1104	S4FN300	1104	S86	1104	S220	1104	S1020	1144	S1403	1617
S1A2	1104	S-1.5-06	1104	S4GR2	1143	S91	1104	S221	1104	S1020	1144	S1405	1617
S1B	1104	S-1.5-08	1114	S4M1	1144	S91-A	1104	S222	1104	S1037	2014	S1409	2016
S1B01	1104	S-1.5-10	1114	S5AR1	1104	S91-H	1104	S223	1104	S1040	1144	S1409	1617
S1B01-01	1104	S-2	1104	S5AR2	1104	S91A	1141	S224	1104	S1041	2016	S1419	1617
S1B-01-02	1104	S2A06	1104	S5CN1	1144	S91B	1143	S227	1122 N3	S1041-16GN	2016	S1420	1617
S1B01-02	1104	S2A10	1104	S5M1	1144	S91H	1104	S229(JAPAN)	1122 N3	S1044	2016	S1421	2030
S1B01-0226	1104	S2A20	1143	S55	1104	S92	1104	S229	1143	S1058	2016	S1428	1122
S1B02	1104	S2A30	1144	S5SR	1104	S92-A	1104	S230	1104	S1059	2014	S1429-3	1617
S1B02-0	1104	S2A40	1144	S6-J	1104	S92-H	1104	S232	1104	S1061	1617	S1432	1617
S1B02-03C	1114	S2A06	1141	S6A#1	1104	S92A	1141	S233	1104	S1062	2016	S1443	1617
S1B02-06CE	1104	S2AR1	1104	S6AR2	1104	S92H	1104	S234	1104	S1045	1617	S1453	1617
S1B02-06CRE	1104	S2AR2	1104	S7-8	1122	S93	1104	S235	1104	S1066	1617	S1475	2009
S1B02-C	1104	S2C30	1104	S7AR1	1114	S93A	1104	S236	1143	S1068	1617	S1476	1617
S1B02-CR	1104	S2C40	1104	S8-06	1114	S93H	1104	S238	1104	S1069	1617	S1477	2023
S1B02-O	1104	S2C40A	1104	S8-10	1114	S93SE133	2041	S239	1104	S1074(R)	1617	S1487	1617
S1B0101CR	1104	S2CN1	1143	S8AR1	1114	S93SE165	2041	S240	1104	S1074(X)	1067	S1502	1617
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S1 5	1104	S4AR2	1104	S82	1104	S208	1114	S1016	1617	S1369	1617	S200#	2016
S-1.5-0	1104	S4AR30	1104	S83	1104	S217	1104	S-1019	2014	S1373	1617	S200#-1	2041

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
S2003MS2	1067	S2984	1617	S9631	2009	SA53	2023	SA482B	2023	SA509T	2023	SA542G	2023
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S2403C	2041	S5295JTPA2	1104	S95125	2016	SA465T	2023	SA499T	2023	SA530G	2023	SA562B	2023
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								SA509R	2023	SA542E	2023	SA564B	2023
								SA509T	2023	SA542F	2023	SA564C	2023
												SA564D	2023

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
SA565C	2023	SA609X	2023	SA658T	2043	SA680L	2043	SA756C	2043	SA909C	2023	SC1A	1114
SA565D	2023	SA609Y	2023	SA658X	2043	SA680M	2043	SA756D	2043	SA909D	2023	SC10	1114
SA565E	2023	SA621A	2023	SA658Y	2043	SA680R	2043	SA756E	2043	SA909E	2023	SC10A	1114
SA565F	2023	SA628B	2023	SA659A	2023	SA680T	2043	SA756F	2043	SA909F	2023	SC12(DIODE)	1122
SA565G	2023	SA628C	2023	SA659B	2023	SA680X	2043	SA756G	2043	SA909G	2023	SC16	1104
SA565L	2023	SA628D	2023	SA659C	2023	SA680Y	2043	SA756L	2043	SA909L	2023	SC16	1104
SA565M	2023	SA628E	2023	SA659D	2023	SA685A	2023	SA756M	2043	SA909M	2023	SC29	1122
SA565R	2023	SA628F	2023	SA659E	2023	SA685B	2023	SA756R	2043	SA909R	2023	SC54	1123
SA565T	2023	SA628G	2023	SA659F	2023	SA685C	2023	SA756T	2043	SA909T	2023	SC65	1617
SA565X	2023	SA628L	2023	SA659G	2023	SA685D	2023	SA756X	2043	SA909X	2023	SC91	562
SA565Y	2023	SA628M	2023	SA659L	2023	SA685E	2023	SA756Y	2043	SA909Y	2023	SC107	2009
SA567A	2023	SA628R	2023	SA659M	2023	SA685F	2023	SA773A	2023	SA7805CU	1770	SC107A	2009
SA567B	2023	SA628T	2023	SA659R	2023	SA685G	2023	SA773B	2023	SA7812CU	1771	SC107B	2009
SA567C	2023	SA628X	2023	SA659T	2023	SA685L	2023	SA773C	2023	SA8104*	2016	SC108	2009
SA567D	2023	SA628Y	2023	SA659X	2023	SA685M	2023	SA773D	2023	SA8346*	2016	SC108A	2009
SA567E	2023	SA629A	2023	SA659Y	2023	SA685R	2023	SA773E	2023	SAC-1843	2016	SC108B	2009
SA567F	2023	SA629B	2023	SA661A	2023	SA685T	2023	SA773F	2023	SAW-1S1941	1104	SC108C	2009
SA567G	2023	SA629C	2023	SA661B	2023	SA685X	2023	SA773G	2023	SAW-1S1944	1114	SC109	2009
SA567L	2023	SA629D	2023	SA661C	2023	SA685Y	2023	SA773L	2023	SAW-25C372GR	2009	SC109A	2009
SA567M	2023	SA629E	2023	SA661D	2023	SA697A	2023	SA773M	2023	SAW-25C372Y	2009	SC109B	2009
SA567R	2023	SA629F	2023	SA661E	2023	SA697B	2023	SA773R	2023	SAW-25C945R	2009	SC110	1104
SA567T	2023	SA629G	2023	SA661F	2023	SA697C	2023	SA773T	2023	SB-01	1171	SC110A	1000
SA567X	2023	SA629L	2023	SA661G	2023	SA697D	2023	SA773X	2023	SB01	1104	SC136B	1000
SA567Y	2023	SA629M	2023	SA661H	2023	SA697E	2023	SA773Y	2023	SB01-02	1172	SC136D	1000
SA569A	2023	SA629R	2023	SA661I	2023	SA697F	2023	SA778A	2023	SB-03	1104	SC141B	1000
SA569B	2023	SA629T	2023	SA661R	2023	SA697G	2023	SA778B	2023	SB-04	1173	SC141B1	1000
SA569C	2023	SA639A	2023	SA661T	2023	SA697L	2023	SA778C	2023	SB0319	2020	SC141B2	1000
SA569D	2023	SA639B	2023	SA661X	2023	SA697M	2023	SA778D	2023	SB1-01-04	1104	SC141B3	1000
SA569E	2023	SA639C	2023	SA661Y	2023	SA697T	2023	SA778E	2023	SB-1AHF	1103	SC141B4	1000
SA569F	2023	SA639D	2023	SA663A	2043	SA697T	2023	SA778F	2023	SB-1Z	1104	SC141B5	1000
SA569G	2023	SA639E	2023	SA663B	2043	SA697X	2023	SA778G	2023	SB1Z	1141	SC141B6	1000
SA569L	2023	SA639F	2023	SA663C	2043	SA697Y	2023	SA778H	2023	SB-2(CENTERING-58)		SC142B	1000
SA569M	2023	SA639G	2023	SA663D	2043	SA707A	2023	SA778M	2023		1101	SC142D	1000
SA569N	2023	SA639H	2023	SA663E	2043	SA707B	2023	SA778R	2023	SB2CH	1114	SC142D	1000
SA569R	2023	SA639L	2023	SA663F	2043	SA707C	2023	SA778T	2023	SB-3	1104	SC144B	1000
SA569T	2023	SA639M	2023	SA663G	2043	SA707D	2023	SA778Y	2023	SB-3-02	1104	SC146B1	1000
SA569Y	2023	SA639T	2023	SA663L	2043	SA707E	2023	SA821	561	SB-3F	1114	SC146B2	1000
SA570A	2023	SA641A	2023	SA663M	2043	SA707F	2023	SA821A	561	SB-3F01	1104	SC146B3	1000
SA570B	2023	SA641B	2023	SA663R	2043	SA707G	2023	SA823	561	SB-3N	1104	SC146B4	1000
SA570C	2023	SA641C	2023	SA663T	2043	SA707L	2023	SA823A	561	SB120	1101	SC146B5	1000
SA570D	2023	SA641D	2023	SA663X	2043	SA707M	2023	SA825	561	SB130	1101	SC146B6	1000
SA570E	2023	SA641E	2023	SA663Y	2043	SA707R	2023	SA825A	561	SB140	1101	SC147	2009
SA570F	2023	SA641F	2023	SA666A	2023	SA707T	2023	SA827	561	SB150	1104	SC147A	2016
SA570G	2023	SA641G	2023	SA666B	2023	SA707X	2023	SA827A	561	SB160	1104	SC147B	2016
SA570L	2023	SA641L	2023	SA666C	2023	SA707Y	2023	SA829	561	SB170	1104	SC148	2016
SA570M	2023	SA641M	2023	SA666D	2023	SA720A	2023	SA829A	561	SB180	1104	SC148A	2016
SA570R	2023	SA641R	2023	SA666E	2023	SA720B	2023	SA836A	2023	SB302	1104	SC148B	2016
SA570T	2023	SA641T	2023	SA666F	2023	SA720C	2023	SA836B	2023	SB-309A	1104	SC148C	2016
SA570X	2023	SA641X	2023	SA666G	2023	SA720D	2023	SA836C	2023	SB309A	1171	SC149	2016
SA570Y	2023	SA641Y	2023	SA666L	2023	SA720E	2023	SA836D	2023	SB-309C	1104	SC149B	2016
SA592A	2023	SA643A	1114	SA666M	2023	SA720F	2023	SA836E	2023	SB309C	1171	SC149C	2016
SA592B	2023	SA643B	1114	SA666R	2023	SA720G	2023	SA836F	2023	SB315	1104	SC157V1	2023
SA592C	2023	SA643C	1114	SA666T	2023	SA720H	2023	SA836G	2023	SB320	1114	SC157B	2023
SA592D	2023	SA643D	1114	SA666X	2023	SA720I	2023	SA836H	2023	SB330	1114	SC157V1	2023
SA592E	2023	SA643E	1114	SA666Y	2023	SA720J	2023	SA836I	2023	SB332	1114	SC157B	2023
SA592F	2023	SA643F	1114	SA672A	2023	SA720K	2023	SA836M	2023	SB333	1104	SC174	2009
SA592G	2023	SA643G	1114	SA672B	2023	SA720L	2023	SA836R	2023	SB340	1114	SC174A	2009
SA592L	2023	SA643L	1114	SA672C	2023	SA720M	2023	SA836T	2023	SB350	1114	SC174B	2009
SA592M	2023	SA643M	1114	SA672D	2023	SA720N	2023	SA836X	2023	SB360	1114	SC257V1	2023
SA592R	2023	SA643R	1114	SA672E	2023	SA721A	2023	SA836Y	2023	SB370	1114	SC258B	2023
SA592T	2023	SA643T	1114	SA672F	2023	SA721B	2023	SA836Z	2023	SB380	1114	SC259V1	2023
SA592X	2023	SA643X	1114	SA672G	2023	SA721C	2023	SA841A	2023	SB393	1104	SC259B	2023
SA592Y	2023	SA643Y	1114	SA672H	2023	SA721D	2023	SA841B	2023	SB821	561	SC305	1104
SA608A	2023	SA657A	2043	SA672I	2023	SA721E	2023	SA841C	2023	SB822	561	SC390	1617
SA608B	2023	SA657B	2043	SA672J	2023	SA721F	2023	SA841D	2023	SB821A	561	SC785	1617
SA608C	2023	SA657C	2043	SA672K	2023	SA721G	2023	SA841E	2023	SB823	561	SC786	2016
SA608D	2023	SA657D	2043	SA672L	2023	SA721H	2023	SA841F	2023	SB825	561	SC821	561
SA608E	2023	SA657E	2043	SA672M	2023	SA721I	2023	SA841G	2023	SB825A	561	SC821A	561
SA608F	2023	SA657F	2043	SA672N	2023	SA721J	2023	SA841H	2023	SB827	561	SC823	561
SA608G	2023	SA657G	2043	SA672P	2023	SA721K	2023	SA841I	2023	SB827A	561	SC823A	561
SA608H	2023	SA657H	2043	SA672Q	2023	SA721L	2023	SA841T	2023	SB829	561	SC825	561
SA608I	2023	SA657I	2043	SA672R	2023	SA721M	2023	SA841X	2023	SB829A	561	SC825A	561
SA608J	2023	SA657J	2043	SA672S	2023	SA721N	2023	SA841Y	2023	SB1000	1104	SC827	561
SA608K	2023	SA657K	2043	SA672T	2023	SA721O	2023	SA842A	2023	SBEB05	1171	SC827A	561
SA608L	2023	SA657L	2043	SA672U	2023	SA721P	2023	SA842B	2023	SBR05	1171	SC829	561
SA608M	2023	SA657M	2043	SA672V	2023	SA721Q	2023	SA842C	2023	SBR-260	1104	SC829A	561
SA608N	2023	SA657N	2043	SA672W	2023	SA721R	2023	SA842D	2023	SC05	1104	SC832	1617
SA608P	2023	SA657P	2043	SA672X	2023	SA721S	2023	SA842E	2023	SC05E	1104	SC842	1617
SA608Q	2023	SA657Q	2043	SA672Y	2023	SA721T	2023	SA842F	2023	SC1	1104	SC1801	1617
SA608R	2023	SA657R	2043	SA672Z	2023	SA721U	2023	SA842G	2023	SC2	1104	SC1810	1617
SA608S	2023	SA657S	2043	SA673A	2023	SA721V	2023	SA842H	2023	SC2C	1104	SC168G	1617
SA608T	2023	SA657T	2043	SA673B	2023	SA721W	2023	SA842I	2023	SC-4	1104	SC168H	1617
SA608U	2023	SA657U	2043	SA673C	2023	SA721X	2023	SA842J	2023	SC4	1104	SC1727F	2016
SA608V	2023	SA657V	2043	SA673D	2023	SA721Y	2023	SA842K	2023	SC-6	1123	SC1727G	2016
SA608W	2023	SA657W	2043	SA673E	2023	SA741A	2023	SA842L	2023	SC-7	1020	SC1729G	2030
SA608X	2023	SA657X	2043	SA673F	2023	SA741B	2023	SA842M	2023	SC-7(PHILCO)	1030	SC1729G	1617
SA608Y	2023	SA657Y	2043	SA673G	2023	SA741C	2023	SA842N	2023	SC8	1114	SC4018H	2401
SA609A	2023	SA657Z	2043	SA673H	2023	SA741D	2023	SA842O	2023				
SA609B	2023	SA658A	2043	SA673I	2023	SA741E	2023	SA842P	2023				
SA609C													

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SC4001UBC	2401	SCL4017AD	2417	SD-7	1122	SD96S	1104	SDR25	1104	SDT9009	2020	SE-4020	2030
SC4010	1617	SCL4017AE	2417	SD7	1122	SD98	1114	SDR3001	1114	SDT9201	2041	SE4020	2016
SC4044	1617	SCL4017AF	2417	SD-7(PHILCO)	1122	SD98A	1114	SDR3002	1114	SDT9205	2041	SE4020/6-04	2016
SC4116	1104	SCL4017AH	2417	SD-8	962	SD98S	1114	SDS113	1104	SDT9206	2041	SE4021	2016
SC4131	2030	SCL4017B	2417	SD8	1114	SD100	1122	SDS240	2016	SDT9210	2041	SE4022	2016
SC4131-1	2030	SCL4017BC	2417	SD-8(PHILCO)	562	SD-101	1104	SDT425	1122	SDT9261	2041	SE4172	1617
SC4135	2030	SCL4017BD	2417	SD10	1104	SD101	1122	SDT445	2027	SDT9301	2041	SE-5001	2016
SC4167	2030	SCL4017BE	2417	SD11F	1123	SD102	1122	SDT1006	2055	SDT9302	2041	SE5001	2016
SC4244	2030	SCL4017BF	2417	SD-12	1123	SD103	1122	SDT1007	2055	SDT9303	2041	SE5002	2016
SC4303	2020	SCL4017BH	2417	SD12	1123	SD104	1104	SDT1016	2055	SDT9304	2041	SE5003	2016
SC4303-1	2020	SCL4049	2449	SD12B	1123	SD105	1104	SDT1017	2055	SDT9306	2041	SE5004	2016
SC4303-2	2020	SCL4449UBE	2449	SD12E	1123	SD-109	2009	SDT3326	2017	SDT9307	2041	SE-5006	1617
SC4308	2020	SCP5E	1104	SD12M	1123	SD109	2009	SDT3509	2027	SDT9308	2041	SE5006	2016
SCA05	1104	SCR15	1067	SD-13	1104	SD-110	1122	SDT3510	2027	SDT9309	2041	SE5010	2016
SCA1	1104	SCR104(ELCOM)	1067	SD13	1104	SD-150	1123	SDT3513	2027	SD-W005M	1173	SE5015	2016
SCA2	1104	SCR108	1067	SD-14	1123	SD160	1122	SDT3514	2027	SD-Y	1104	SE5020	2016
SCA3	1104	SCR108(ELCOM)	1067	SD14	1123	SD165	1122	SDT3701	2027	SE0001	2009	SE5021	2016
SCA4	1104	SCR200	1067	SD-15	562	SD-201	1104	SDT3702	2027	SE002(1)	2016	SE5022	2016
SCA5	1104	SCR218	1067	SD15	1123	SD201	1104	SDT3703	2027	SE-05	1104	SE-5023	2016
SCA6	1104	SCR218(ELCOM)	1067	SD-16	1123	SD202	1104	SDT3704	2027	SE05	1104	SE5023	2016
SCA8	1114	SCR404(ELCOM)	1020	SD16	1123	SD345	2020	SDT3706	2027	SE-05-01	1104	SE-5024	2016
SCA10	1114	SCT1	1114	SD-16A	1104	SD443	2027	SDT3707	2027	SE-05-02	1104	SE5024	2016
SCA1103	1104	SCT2	1114	SD-16D	1104	SD461	1123	SDT3708	2027	SE-05-A	1104	SE-5025	2016
SCA3022	2016	SCT3	1114	SD-18	1104	SD-470	1104	SDT3709	2027	SE-05-B	1104	SE5025	2058
SCA3235	2016	SCT4	1114	SD18	1104	SD470	1104	SDT3710	2027	SE-05-C	1114	SE5029	2016
SCA3236	2016	SCT5	1114	SD-19	1171	SD500	1122	SDT3711	2027	SE-05-D	1114	SE5030	2016
SCA3237	2016	SD05	1104	SD20	1104	SD500C	1104	SDT3712	2027	SE-05A	1104	SE5030A	1617
SCA3238	2016	SD-07	1104	SD21	1123	SD501	1104	SDT3713	2027	SE05A	1144	SE5030B	1617
SCA3239	2016	SD07	1104	SD21A	1123	SD600	1122	SDT3715	2027	SE05B	1104	SE5031	2016
SCA3240	2016	SD020	1123	SD23	1104	SD600C	1104	SDT3716	2027	SE-05C	1114	SE5032	2016
SCA3243	2016	SD040	1104	SD-27	562	SD-630	1122	SDT3717	2027	SE05C	1114	SE5033	2016
SCA3244	2016	SD0345	2020	SD33	563	SD630	1122	SDT3720	2027	SE05D	1104	SE5036	2016
SCA3246	2016	SD1	1104	SD-34	1122	SD-632	562	SDT3721	2027	SE05E	1104	SE5040	2016
SCBR05F	1114	SD1-1	1104	SD34	1123	SD632	562	SDT3722	2027	SE055	1104	SE5050	2016
SCBR1F	1114	SD-1-211B	1104	SD-43	1122	SD632(10)	562	SDT3725	2027	SE-05X	1104	SE5051	2016
SCBR6	1114	SD1-211B	1104	SD43	1122	SD701-02	1122	SDT3726	2027	SE-0.5A	1144	SE5052	2016
SCBR6F	1114	SD-1-211C	1104	SD45	1104	SD800	1114	SDT3727	2027	SE-0.5B	1104	SE5055	2009
SCBR35F	1114	SD1-Z	1104	SD-46	1123	SD910	1114	SDT3729	2027	SE-1.5A	1114	SE5056	2016
SCE1	1104	SD-1A	1104	SD46	1123	SD910A	1114	SDT3730	2027	SE-2	1104	SE5151	1617
SCE2	1104	SD1A	1104	SD46(4)	1123	SD910S	1114	SDT3733	2027	SE-5	1104	SE-6001	1617
SCE3	1104	SD-1AHF	1101	SD-46-2	1123	SD950	1104	SDT4455	2017	SE5-0996	2035	SE6001	2030
SCE4	1104	SD-1AUF	1122	SD46-2	1123	SD974	1122	SDT4483	2017	SE6(DUAL)	1101	SE-6002	1617
SCE6	1104	SD-1B	1104	SD46R	1123	SD1023	2017	SDT4551	2017	SE30B26A	1104	SE6002	2016
SCE8	1114	SD1B	1114	SD50	1101	SD1101	1104	SDT4553	2017	SE46	1104	SE6006	2030
SCE10	1114	SD1C	1114	SD53	563	SD1102	1104	SDT4558	2017	SE500G	2016	SE6010	1617
SCL4001	2401	SD-1C-4F	1104	SD54	1123	SD1103	1104	SDT4611	2017	SE504	2016	SE6020	1617
SCL4001B	2401	SD-1C-UF	1104	SD-56	1123	SD1335	2020	SDT4612	2017	SE521	2016	SE6020A	2030
SCL4001BC	2401	SD-1CUF	1104	SD56	1123	SD1345	2020	SDT4614	2017	SE555V	1723	SE6021	2030
SCL4001BD	2401	SD1CUF	1104	SD-60	1123	SD1445	2027	SDT4615	2017	SE1001	2016	SE6021A	2030
SCL4001BE	2401	SD1DM-4	1104	SD60	1123	SD11441	2016	SDT5011	2017	SE1001-1	2058	SE6022	2030
SCL4001BF	2401	SD-1HF	1104	SD-60P	1104	SDA345	2020	SDT5102	2020	SE1001-2	2058	SE6023	2030
SCL4001UBD	2401	SD1HF	1104	SD60P	1101	SDA445	2027	SDT5112	2027	SE-1002	1617	SE7005	2030
SCL4001UBE	2401	SD-1L	1104	SD-61P	1104	SDB345	2020	SDT5511	2017	SE1002	2016	SE7015	2030
SCL4001UBF	2401	SD1L	1104	SD61P	1103	SDB445	2027	SDT5901	2017	SE1002-1	2016	SE8001	2030
SCL4001UBH	2401	SD-1LA	1104	SD-80	1104	SD-BA244A	1122	SDT5902	2017	SE1002-2	2016	SE8002	2030
SCL4009UBE	2449	SD1LA	1104	SD80	1104	SDD5	1101	SDT5906	2017	SE-1010	2016	SE8010	2030
SCL4011	2411	SD-1N34A	1123	SD-91	1104	SDD6	1101	SDT5907	2020	SE1010	2016	SE8012	2030
SCL4011B	2411	SD-1N60	1123	SD91	1141	SDD420	2030	SDT6001	2020	SE1019	2016	SE8040	1617
SCL4011BC	2411	SD-1N60S	1123	SD-91A	1104	SDD421	1617	SDT6011	2020	SE1044	2016	SE8041	2030
SCL4011BD	2411	SD-1N4148	1122	SD91A	1143	SDD820	2016	SDT6013	2020	SE1331	1617	SE8042	2030
SCL4011BE	2411	SD1P60XXXXFX	1123	SD-91S	1104	SDD821	1617	SDT6031	2020	SE1419	2016	SE8510	2030
SCL4011BF	2411	SD-1S1555	1122	SD91S	1143	SDD1220	2030	SDT6101	2017	SE1730	1114	SE8520	2030
SCL4011BH	2411	SD-1S2076	1122	SD-92	1104	SDD3000	1617	SDT6102	2017	SE2001	2016	SE8521	2030
SCL4011UBC	2411	SD-1U	1104	SD92	1143	SDS542XXXXXX	1122	SDT6103	2020	SE2002	2016	SE9002	2041
SCL4011UBD	2411	SD-1UF	1104	SD-92A	1104	SDS5F10XCXXXXT	1102	SDT6104	2017	SE2020	2016	SE9080	2041
SCL4011UBE	2411	SD-1X	1104	SD92A	1143	SD-ERB24-04D	1104	SDT6105	2017	SE2397	2016	SELEN-42	1101
SCL4011UBF	2411	SD1X	1104	SD-92S	1104	SDGMA01XXXXXT	1122	SDT6106	2017	SE2401	1617	SELEN-44	1171
SCL4011UBH	2411	SD-1Y	1104	SD92S	1143	SDGZA062YXXXX	561	SDT7511	2020	SE2402	1617	SELEN-64	1114
SCL4013	2413	SD1Y	1104	SD-93	1104	SDH-2	1123	SDT7512	2020	SE-3001	2016	SELEN-70	1104
SCL4013AC	2413	SD-1Z	1104	SD93	1144	SDI345	2020	SDT7514	2020	SE3001	2016	SELEN-701	1104
SCL4013AD	2413	SD1Z	1104	SD-93A	1104	SDI445	2027	SDT7515	2020	SE3001R	2016	SELEN-105	1101
SCL4013AE	2413	SD-1ZHF	1104	SD93A	1144	SD-IN4148	1122	SDT7601	2041	SE3002	2016	SELEN-110	1104
SCL4013AF	2413	SD1ZHF	1104	SD93S	1104	SDJ345	2020	SDT7602	2041	SE3003	2016	SELEN-120	1102
SCL4013AH	2413	SD-2	1104	SD-94	1104	SDJ445	2027	SDT7603	2041	SE3005	2016	SELEN-130	1103
SCL4013BC	2413	SD2	1114	SD94	1144	SDK345	2020	SDT7607	2041	SE3019	2016	SELEN-140	1103
SCL4013BD	2413	SD2A	1104	SD-94A	1104	SDK445	2027	SDT7608	2041	SE3032	2041	SELEN-150	1104
SCL4013BE	2413	SD2B	1104	SD94A	1144	SDL345	2020	SDT7609	2041	SE3033	2041	SELEN-160	1104
SCL4013BF	2413	SD2C	1114	SD-94AB	1104	SDL445	2027	SDT7731	2041	SE3035	2041	SELEN-180	1114
SCL4013BH	2413	SD-2N5062	1067	SD94AB	1104	SDM345	2020	SDT7732	2041	SE3036	2041	SELEN-205	1114
SCL4013BP	2413	SD4	1104	SD94B	1104	SDM445	2027	SDT7733	2041	SE3100	2009	SELEN-210	1114
SCL4017	2417	SD-5	1122	SD94S	1104	SDN201	2068	SDT9001	2017	SE3646	2016	SELEN-220	1114
SCL4017ABC	2417	SD5	1104	SD-95	1104	SDN345	2020	SDT9002	2017	SE3819	2035	SELEN-230	1114
SCL4017ABD	2417	SD5(DUAL)	1101	SD95	1104	SDN445	2027	SDT9003	2017	SE-4001	2009	SELEN-240	1114
SCL4017ABE	2417	SD-5(PHILCO)	1122	SD-95A	1104	SDO345	2020	SDT9005	2020	SE4001	1617	SELEN-250	1114
SCL4017ABF	2417	SD-6	565	SD95A	1104	SDP345	2020	SDT9006	2017	SE4002	2009	SELEN-260	1114
SCL4017ABH	2417	SD6	1104	SD96	1104	SDR3A	1114	SDT9007	2017	SE-4010	1617	SELEN-280	1114
SCL4017AC	2417	SD6(DUAL)	1143	SD96A	1104	SDR-25	1104	SDT9008	2017	SE4010	2009	SELEN-305	1114

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SEN-310	1114	SFD104	1123	SH-1A	1104	SIB01-022	1104	SI-RECT-152	1122	SK4A7/5009A	565	SK3112	2035
SEN-320	1114	SFD107	1123	SH1A	1104	SIB01-2	1104	SI-RECT-154	1104	SK4V7/5069A	565	SK3114	2023
SEN-330	1114	SFD111	1123	SH1B	1114	SIB02-03C	1104	SI-RECT-155	1104	SK5A1/5010A	565	SK3114/290	2023
SEN-340	1114	SFD112	1123	SH1C	1114	SIB02-03CR	1104	SI-RECT-156	1104	SK5V1/135A	565	SK3114/290A	2023
SEN-350	1114	SFD164	1122	SH-1DE	1104	SIB02-CR	1104	SI-RECT-168	565	SK6A2/5013A	561	SK3115	2055
SEN-360	1114	SFD180	1122	SH1DE	1104	SIB02-CR1	1122	SI-RECT-178	1101	SK6V0/5070A	561	SK3115/165	2055
SEN-380	1114	SFD181	1122	SH-15	1104	SIB03-08	1114	SI-RECT-178B	1101	SK6V2/137A	561	SK3117	2016
SEN-1100	1114	SFD182	1122	SH15	1143	SIB03-10	1114	SI-RECT-204	1114	SK8A7/5017A	562	SK3118	2023
SEN-2100	1114	SFE145	2035	SH-1Z	1104	SIB020-1B	1171	SI-RECT-208	1114	SK8V7/5073A	562	SK3120	1101
SEN-3100	1114	SFR3841	1067	SH4D05	1104	SIB0101	1104	SI-RECT-218	1104	SK9A1/5018A	562	SK3120/114	1101
SEN2A1	1171	SFR3D41	1067	SH4D1	1104	SIB0102	1104	SI-RECT-220	1104	SK9V1/139A	562	SK3121	1101
SEN2A4	1173	SFOR1A41	1067	SH4D2	1104	SIB-0306	1114	SI-RECT-222	1104	SK11V5/141A	563	SK3121/115	1101
SES632	2041	SFOR1B41	1067	SH4D3	1104	SIB0306	1114	SI-RECT-226	1104	SK12A/5021A	563	SK3122	2009
SES881	2041	SFOR2B41	1067	SH4D4	1104	SIB0L-02	1104	SI-RECT-228	563	SK12V1/142A	563	SK3124	2009
SES3819	2035	SFOR2D41	1067	SH4D6	1104	SIB1	1104	SI-RECT-230	1104	SK15A/5024A	563	SK3124/289	2009
SES5001	1114	SFOR2G41	1020	SH4D8	1114	SIB50B794-T	1171	SIRM-2C	1114	SK15V/145A	564	SK3124A/289A	2009
SFOR1A41	1067	SFR135	1104	SH15	1104	SID01-02	1104	SIR-RECT-44	1104	SK19	2035	SK3133	2055
SF1A11	1067	SFR151	1104	SH200	1101	SID01E	1104	SI52	1123	SK52	570	SK3133/164	2055
SF1A11A	1067	SFR152	1104	SH200A	1101	SID01K	1114	SI54M	1104	SK52/2V130	570	SK3165/923D	1740
SF1B11	1067	SFR153	1104	SH202	1122	SID01L	1104	SI511	1123	SK53	568	SK3173	2043
SF1B11A	1067	SFR154	1104	SH202A	1122	SID02E	1104	SISD-1HF	1114	SK53/524V13	568	SK3173/219	2043
SF1CN1	1114	SFR155	1104	SH212	1122	SID02K	1114	SISD-1X	1104	SK107-4	2035	SK3174	1104
SF1D11	1067	SFR156	1104	SH212A	1122	SID02L	1104	SISD-K	1104	SK119	1122	SK3175/177	1122
SF1D11A	1067	SFR164	1104	SH222	1122	SID3B-3	1101	SISM-150-01	1104	SK-218	1104	SK3192	2017
SF1R3B41	1067	SFR251	1104	SH222A	1122	SID50B851	1122	SISW-05-02	1104	SK218	1104	SK3192/184	2017
SF1R3D41	1067	SFR252	1104	SH242	1122	SID51C052-19	1114	SISW-0502	1104	SK1320	2016	SK3231	705
SF2B41	1067	SFR253	1104	SH242A	1122	SID51C169	1104	SITVR-06G	1104	SK1639	2023	SK3231/1155	705
SF2D41	1067	SFR254	1104	SH252	1122	SID50894	1122	SITVR-066	1104	SK1640	2023	SK3245	2016
SF2G41	1020	SFR255	1104	SH252A	1122	SIF4	1104	SJ051E	1104	SK1641	1617	SK3245/199	2016
SF2K212XXX3XX	2062	SFR256	1104	SH300	1122	SIF14A-P	1104	SJ051F	1104	SK2007/3007	026	SK3246	2058
SF3CN1	1114	SFR258	1114	SH300A	1122	SIG1/100	1143	SJ052E	1104	SK2022/3022	041	SK3246/229	2058
SF3D#1	1067	SFR264	1104	SH301	1122	SIG1/200	1143	SJ052F	1104	SK2026/3026	025	SK3246A/229	2058
SF3G14	1020	SFR266	1104	SH301A	1122	SIG1/400	1104	SJ053F	1104	SK2056/3056	075	SK3247	2023
SF4	1114	SFR268	1114	SH302	1122	SIG1/600	1104	SJ060F	1104	SK2115/3115	081	SK3247/234	2023
SF4CN1	1114	SFT104	1123	SH302A	1122	SIL	1114	SJ101F	1104	SK260	2023	SK3256	2020
SF5	1114	SFT108	1123	SH1064	1617	SIL200	1104	SJ102F	1104	SK3016	1104	SK3272	2020
SF6	1114	SFT440	2030	SHA7530	2023	SILC4001BXXXX	2401	SJ103F	1143	SK3017A	1104	SK3274	2027
SF16D12	1067	SFT443	2030	SHA7531	2023	SIR20	1104	SJ201F	1104	SK3017B	1104	SK3274/153	2027
SF115	2058	SFT443A	2030	SHA7532	2023	SIR60	1104	SJ202F	1104	SK3020	1617	SK3293	2016
SF115A	2058	SFT445	2030	SHA7533	2023	SIR-80	1104	SJ203F	1143	SK3020/123	1617	SK3293/107	2016
SF115B	2058	SFT713	1617	SHA7534	2023	SIR80	1104	SJ301F	1104	SK3024	2030	SK3297	2041
SF115C	2058	SFT714	1617	SHA7536	2023	SIRB-10	1171	SJ302F	1104	SK3024/128	2030	SK3297/280	2041
SF115D	2058	SFZ716	563	SHA7537	2023	SIRB10	1114	SJ401F	1104	SK3027	2041	SK3311	1102
SF115E	2058	SG-005	1104	SHA7538	2023	SIRBA00	1173	SJ402F	1104	SK3027/130	2041	SK3312	1103
SF167	2016	SG005	1144	SHAD-1	1104	SIRBA10	1173	SJ403F	1144	SK3030	1104	SK3313	1104
SF173	2016	SG-5N	1114	SI05	1141	SI-REC-73	1104	SJ501F	1104	SK3031	1104	SK3313/116	1104
SF194	2016	SG-5P	1114	SI-05A	1114	SI-RECT-044	1104	SJ570	1617	SK3031A	1103	SK3315	1101
SF194B	2016	SG-5T	1104	SI05A	1141	SI-RECT-2	1104	SJ601F	1104	SK3032	1114	SK3315/507	1101
SF195	2016	SG-105	1104	SI1	1143	SIRECT-2	1104	SJ619	2041	SK3032A	1114	SK3333	565
SF195C	2016	SG105	1104	SI-1A	1114	SI-RECT-20	1104	SJ619-1	2041	SK3033	1114	SK3333/5069A	565
SF195D	2016	SG-205	1104	SI1A	1143	SI-RECT-25	1104	SJ820	2041	SK3033A	1114	SK3359	2043
SF196	2016	SG205	1143	SI15554	1122	SI-RECT-27	1104	SJ821	2043	SK3038	2030	SK3359/281	2043
SF197	2015	SG224J	1711	SI2	1143	SI-RECT-33	1104	SJ1003F	1114	SK3041	2020	SK3440	2020
SF294	2015	SG224N	1711	SI-2A	1114	SI-RECT-34	1104	SJ1106	2041	SK3046	2009	SK3440/291	2020
SF294B	2015	SG-305	1104	SI3	1144	SI-RECT-35	1122	SJ1152	2027	SK3047	2080	SK3444	1617
SF295	2015	SG305	1144	SI-3A	1114	SIRECT-36	1104	SJ1171	2027	SK3047A	2030	SK3444/123A	1617
SF295C	2015	SG323	1104	SI4	1144	SI-RECT-37	1104	SJ1284	2027	SK3051	1114	SK3452	2016
SF295D	2015	SG324N	1711	SI-4A	1114	SI-RECT-39	1104	SJ1470	2041	SK3051/156	1114	SK3452/108	2016
SF310	2015	SG505	1104	SI-5A	1114	SI-RECT-48	1104	SJ1925	2035	SK3054	2020	SK3465	038
SF314	2016	SG555CM	1723	SI-6A	1114	SIRECT-48	1104	SJ2000	2041	SK3054/196	2020	SK3465/778	038
SF334	2015	SG555M	1723	SI-7A	1114	SI-RECT-49	1104	SJ2001	2043	SK3056	565	SK3465/778A	038
SF334B	2015	SG723CM	1740	SI-8A	1114	SI-RECT-50	1114	SJ2008	2041	SK3056/135A	565	SK3466	2021
SF335	2015	SG741CM	007	SI8A	1114	SI-RECT-53	1104	SJ2032	2030	SK3058	561	SK3466/159	2021
SF335C	2015	SG-805	1104	SI-10A	1114	SI-RECT-59	1104	SJ3604	2041	SK3058/137A	561	SK3506	1090
SF335D	2016	SG-1198	1104	SI10A	1114	SI-RECT-69	1104	SJ3629	2009	SK3060	562	SK3506/5642	1090
SF1001	1617	SG1198	1104	SI0E	1104	SI-RECT-73	1104	SJ3678	2041	SK3060/139A	562	SK3510	2041
SF1713	1617	SG1458M	038	SI91G	1104	SI-RECT-75	1104	SJ5525	2055	SK3062	563	SK3534	2020
SF1714	1617	SG1488J	2520	SI100E	1104	SI-RECT-77	1104	SJ5526	2055	SK3062/142A	563	SK3552	007
SF1726	1617	SG1489J	2521	SI-154	1104	SI-RECT-84	1104	SJ6351	2055	SK3063	564	SK3552/941M	007
SF1730	1617	SG3400	1104	SI1000E	1114	SI-RECT-92	1104	SJ8701	2041	SK3063/145A	564	SK3564	1723
SFC400E	1801	SG5009	1122	SI-1002	1104	SI-RECT-92	1104	SJ9110	2041	SK3080	1114	SK3564/955M	1723
SFC401E	1801	SG5013	2030	SI-1006	1104	SI-RECT-94	1104	SJE42	2020	SK3081	1114	SK3569	1712
SFC408E	1822	SG5400	1122	SI-1014	1104	SI-RECT-100	1104	SJE513	2020	SK3081/125	1114	SK3569/834	1712
SFC2458DC	038	SG5717	1122	SI-1020	1104	SI-RECT-100-102	1104	SJE514	2027	SK3087	1123	SK3577/5408	1067
SFC2805EC	1770	SG7400M	1801	SI-1021	1104	SI-RECT-102	1104	SJE515	2020	SK3088	1123	SK3577/5409	1067
SFC2812EC	1771	SG7812	1104	SI-1030	1104	SI-RECT-102	1104	SJE677	2027	SK3090	1123	SK3577/5409	1067
SFC2815EC	1772	SG7918CP	1104	SIB01	1104	SIRECT-102	1104	SJE678	2020	SK3090/109	1123	SK3583/5641	1000
SFC3012	2016	SG9012I	2023	SIB01-01	1104	SI-RECT-110	1114	SJE694	2020	SK3091	1123	SK3591	1770
SFC3020	2016	SG-9150	1122	SIB01-01V	1104	SI-RECT-110/SB-3F	1104	SJE695	2027	SK3092	563	SK3591/960	1770
SFD037A	1123	SG9150	1122	SIB01-01W	1104	SI-RECT-112	1104	SJE783	2020	SK3092/141A	563	SK3592	1771
SFD12	1123	SGB-9742	2016	SIB-01-02	1104	SI-RECT-112/SB-3	1114	SJE-5038	2017	SK3100	1122	SK3592/966	1771
SFD43	1123	SGC-7202	2009	SIB01-02	1102	SI-RECT-122	1104	SJE8621	2027	SK3100/519	1122	SK3593	1772
SFD46	1123	SGC7202	2030	SIB01-02TP1	1102	SI-RECT-126	1104	SJE8635	2020	SK3106	1173	SK3593/968	1772
SFD48	1123	SGR100	1104	SIB01-02VI	1102	SI-RECT-140	561	SK04	1114	SK3106/530E	1173	SK3597	1067
SFD79	1123	SGS87231	2016	SIB01-06	1104	SI-RECT-140/TR-6	561	SK08	1114	SK3110	1101	SK3597/5455	1067
SFD83	1123	SH-1	1104	SIB01-06B	1104	SI-RECT-140/TR65	561	SK1-K2	1162	SK3110/120	1101	SK3598</	

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SK3620	2620	SK6753/5453	1067	SL-5	1143	SLA441B	1104	SM-1-02	1104	SM150-11	1114	SMB-01	1171
SK3627	1067	SK6754/5454	1067	SL5	1104	SLA442	1104	SM1-02	1104	SM-150-A	1104	SMB-04	1173
SK3627/5404	1067	SK7400	1801	SL91	1104	SLA442B	1104	SM-1-02FR	1104	SM-150-B	1104	SMC7400N	1801
SK3638	1067	SK7401	1801	SL92	1104	SLA443	1104	SM-1-02FRA	1104	SM-150-C	1114	SMC7408N	1822
SK3638/5402	1067	SK7404	1802	SL93	1104	SLA443B	1104	SM-1-04	1104	SM-150-D	1114	SMC7490N	1808
SK3643	1711	SK7408	1822	SL100	2016	SLA444	1104	SM-1-04FR	1104	SM-150A	1114	SN0303	1104
SK3643/987	1711	SK7447	1805	SL-103	1143	SLA444A	1104	SM-1-04FRA	1104	SM150A	1114	SN-1	1104
SK3648/168	1173	SK7490	1808	SL103	1104	SLA444B	1104	SM-1-06FRA	1104	SM150B	1114	SN1	1104
SK3664	1000	SK7641/858M	1715	SL119	2023	SLA445	1104	SM-1-08	1114	SM150C	1114	SN-1Z	1104
SK3664/5602	1000	SK8251	1617	SL300	1617	SLA445B	1104	SM-1-08FR	1114	SM150D	1114	SN10	1114
SK3665/5603	1000	SK8937	2058	SL301C	2030	SLA536	1104	SM-1-08FRA	1114	SM150S	1114	SN166	2030
SK3666/5605	1000	SK9000/552	1104	SL301CE	2030	SLA537	1104	SM-1-10FR	1114	SM150SS	1114	SN167	2030
SK3677	1185	SK9001/113A	1104	N2	1104	SLA538	1104	SM-1-10FRA	1114	SM160	1104	SN2222AP	2009
SK3683/5511	1067	SK9002	1104	N1	1104	SLA539	1104	SM-1-47	1104	SM170	1114	SN4448	1122
SK3684/5512	1020	SK9003/5800	1141	SL610	1114	SLA540	1104	SM-1A-01	1104	SM180	1114	SN7400	1801
SK3689/978	1728	SK9004/5801	1143	SL708	1114	SLA547	1104	SM-1A-01Z	1104	SM200	1114	SN7400A	1801
SK3709	1123	SK9005/5802	1143	SL710	1114	SLA560	1114	SM-1A-02	1104	SM205	1104	SN7400J	1801
SK3709/110MP	1123	SK9006/5803	1144	SL-833	1104	SLA561	1114	SM-1A-02FR	1104	SM210	1104	SN7400N	1801
SK3710	2055	SK9007/5804	1144	SL833	1104	SLA591LT3	066A	SM-1A-02FRA	1104	SM215A	1102	SN7400N-10	1801
SK3710/238	2055	SK9021/5070A	561	SL-833A	1104	SLA599	1104	SM-1A-02Z	1102	SM220	1104	SN7401	1801
SK3716	2016	SK9075/166	1171	SL833A	1104	SLA599A	1104	SM-1A-04	1104	SM230	1104	SN7401J	1801
SK3716/161	2016	SK9091/177	1122	SL918	2016	SLA600	1104	SM-1A-04FR	1104	SM240	1104	SN7401N	1801
SK3749	562	SK9112/377	2020	SL3693	2016	SLA600A	1104	SM-1A-04FRA	1104	SM250	1104	SN7404	1802
SK3749/5073A	562	SK9157/312	2035	SL14971	1822	SLA601	1104	SM-1A-04Z	1103	SM260	1104	SN7404J	1802
SK3775	565	SK9161/457	2062	SL16793	1801	SLA601A	1104	SM-1A-06	1104	SM270	1114	SN7404N	1802
SK3775/5009	565	SK9164/451	2062	SL16794	1801	SLA602	1104	SM-1A-06FR	1104	SM280	1114	SN7404N-10	1802
SK3775/5009A	565	SK9210/823	1731	SL16796	1802	SLA602A	1104	SM-1A-06FRA	1104	SM300	1114	SN7408	1822
SK3776	565	SK9215/956	1778	SL16798	1822	SLA603	1104	SM-1A-06Z	1104	SM483	1104	SN7408J	1822
SK3776/5010	565	SK9229/85	2009	SL17869	1822	SLA603A	1104	SM-1A-200	1104	SM486	1104	SN7408N	1822
SK3776/5010A	565	SK9234/331	2020	SL53431	1801	SLA604	1104	SM-1K	1104	SM487	1104	SN7408N-10	1822
SK3779	561	SK9296	1101	SLA01	1114	SLA604A	1104	SMTK	1144	SM488	1104	SN7447A	1805
SK3779/5012	561	SK9296/114	1101	SLA-11	1101	SLA605	1104	SM-1XH02	1104	SM505	1104	SN7447AJ	1805
SK3779/5013A	561	SK9387/233	2009	SLA11AB	1104	SLA605A	1104	SM-1XH04	1104	SM510	1104	SN7447AN	1805
SK3783	562	SK9432/319P	2009	SLA11C	1104	SLA606	1104	SM-1XH06	1104	SM512	1104	SN7447J	1805
SK3783/5017	562	SK9433	2009	SLA-12	1104	SLA606A	1104	SM-1XH02	1104	SM513	1104	SN7447N	1805
SK3783/5017A	562	SK9434	2023	SLA12AB	1104	SLA1095	1104	SM-1XM04	1104	SM514	1104	SN7447N-10	1805
SK3784	562	SK9450	2020	SLA12C	1104	SLA1096	1104	SM-1XM06	1104	SM515	1104	SN7490A	1808
SK3784/5018	562	SK9450/241	2020	SLA-13	1102	SLA1100	1104	SM-1XN02	1104	SM516	1104	SN7490AJ	1808
SK3784/5018A	562	SK-31024-3	2016	SLA13AB	1104	SLA1101	1104	SM-1XN04	1104	SM517	1114	SN7490AN	1808
SK3787	563	SK31024-3	2016	SLA13C	1104	SLA1102	1104	SM-1XN06	1104	SM518	1114	SN7490N	1808
SK3787/5011	563	SK707380	1080	SLA-14	1103	SLA1103	1144	SM-1-5-08	1114	SM520	1114	SN7490N-10	1808
SK3787/5021A	563	SKA0030	2009	SLA14AB	1104	SLA1104	1104	SM-1-5-08FR	1114	SM576-1	1617	SN52723N	1740
SK3790	564	SKA1080	1617	SLA14C	1104	SLA1105	1104	SM-1-5-10	1114	SM576-2	1617	SN72555JP	1723
SK3790/5024	564	SKA1117	1617	SLA-15	1103	SLA1487	1104	SM-1-5-10FR	1114	SM645	1104	SN72555P	1723
SK3790/5024A	564	SKA1279	2023	SLA15AB	1104	SLA1488	1104	SM-1-5-10Z1	1104	SM646	1104	SN72723J	1740
SK3834/132	2035	SKA1395	1617	SLA15C	1104	SLA1489	1104	SM-3-08	1114	SM705	1104	SN72723N	1740
SK3852/1232	703	SKA1416	2016	SLA-16	1104	SLA1490	1104	SM-3-08FR	1114	SM710	1104	SN72741P	007
SK3854/123AP	2009	SKA-4061	2023	SLA16AB	1104	SLA1491	1104	SM3G41	1000	SM-716	1617	SN75188	2520
SK3893/152	2020	SKA-4074	2016	SLA16C	1104	SLA1492	1104	SM3G41-LC2	1000	SM716	1617	SN75188J	2520
SK3896/261	2068	SKA4074	2016	SLA-17	1104	SLA1492	1104	SM4	1104	SM720	1104	SN75188N	2520
SK3911	2030	SKA-4075	2016	SLA17AB	1104	SLA1693	1104	SM5	1104	SM730	1104	SN75189	2521
SK3912	2023	SKA4075	2016	SLA17C	1104	SLA1694	1104	SM10	1104	SM740	1104	SN75189A	2521
SK3938/5633	1000	SKA-4076	2058	SLA-18	1114	SLA1695	1104	SM11	1104	SM750	1104	SN75189N	2521
SK3950/5400	1067	SKA4076	2016	SLA18AB	1114	SLA1696	1104	SM20	1104	SM760	1104	SN75189N	2521
SK3951/5405	1020	SKA4129	2023	SLA18C	1114	SLA1697	1104	SM30	1104	SM770	1114	SNR-14A130K	570
SK3953/5412	1067	SKA4141	1617	SLA-19	1114	SLA2610	1104	SM31	1104	SM780	1114	SNR14A130K	570
SK3954/5414	1067	SKA4525	2016	SLA19AB	1114	SLA2611	1104	SM40	1104	SM800	1114	SNR20A130K	568
SK3955/5415	1020	SKA-4590	2058	SLA19C	1114	SLA2612	1104	SM50	1104	SM1507	2023	SNR-20A150K	568
SK4001	2401	SKA4616	2030	SLA-21	1114	SLA2613	1104	SM51	1104	SM2700	1617	SNR-A130L10	570
SK4001B	2401	SKA4768	2016	SLA21A	1141	SLA2614	1104	SM60	1104	SM2701	1617	SNT204	2023
SK4011	2411	SKA-4802	2016	SLA21B	1141	SLA2615	1104	SM70	1114	SM3104	1617	SO10G	1114
SK4011B	2411	SKA-5248	2016	SLA21C	1141	SLA2616	1114	SM71	1114	SM3117A	1617	SO46	1123
SK4013	2413	SKA5248	2016	SLA-22	1114	SLA2617	1114	SM73	1114	SM3505	1617	SO501	1104
SK4013B	2413	SKA-5541	2016	SLA22A	1143	SLA3193	1104	SM80	1114	SM3978	2030	SO-632	562
SK4017	2417	SKA-5886	2016	SLA22B	1143	SLA3194	1104	SM81	1114	SM3986	1617	SOA	1114
SK4017B	2417	SKA5886	2016	SLA22C	1143	SLA3195	1104	SM83	1114	SM-4304-S	2016	SOD30AL	1141
SK4049	2449	SKA6250	2023	SLA-23	1114	SLA3196	1114	SM100	1114	SM4304-S	2058	SOD30BL	1141
SK4049UB	2449	SKA-6256	2009	SLA23B	1143	SLA5197	1141	SM101	1114	SM4508-B	1617	SOD30DL	1141
SK5010/117A	1114	SKA-6437	2009	SLA23C	1143	SLA5198	1143	SM103	1114	SM4547	2023	SOD50AL	1141
SK5010A/117A	1114	SKA6556	1617	SLA-24	1114	SLA5199	1143	SM105	1104	SM4719	2023	SOD50BL	1141
SK5188/75188	2520	SKA-8105	2009	SLA24A	1144	SLA5200	1144	SM110	1104	SM5379	1617	SOD50CL	1141
SK5189/75189	2521	SKA9013	2016	SLA24B	1144	SLA01	1114	SM112	1104	SM5564	2009	SOD50DL	1141
SK5550/5650	1000	SKA9096	2016	SLA24C	1144	SLP-235B	037	SM120	1104	SM5643	2009	SOD100AL	1143
SK5551/5651	1000	SKB8339	1617	SLA-25	1114	SLP-235B(GR)	037	SM130	1104	SM5796	2016	SOD100BL	1143
SK5552/5652	1000	SKMV130J/2V130	570	SLA25A	1144	SLP-236B	021	SM140	1104	SM6251	2030	SOD100CL	1143
SK5797	2023	SKMV130K/524V13	568	SLA25B	1144	SLP-236B(G)	022	SM150	1114	SM6762	2009	SOD100DS	1143
SK5798	2023	SKS1/01	1114	SLA25C	1144	SLP-236B(GR)	022	SM-150-005	1114	SM6773	2009	SOD200AL	1143
SK5801	1617	SKS1/04	1114	SLA-26	1114	SLP-236B(GREEN)	022	SM150-01	1114	SM7545	2009	SOD200BL	1143
SK5915	1617	SKS1/08	1114	SLA-27	1114	SLP-236B(Y)	021	SM-150-02	1114	SM7815	2009	SOD200CL	1143
SK6345	2023	SL-030	1104	SLA-28	1114	SLP-236B(YELLOW)	021	SM150-02	1114	SM7836	2009	SOD-200D	1114
SK6346	2023	SL030S	1104	SLA-29	1114	SLP-236B(YELLOW)	021	SM-150-02(CENTERING)	1114	SM7991	2030	SOD200D	1104
SK6347	2023	SL-030T	1104	SLA-50-LCD	1171	SLP-236P(GR)	022	SM150-04	1104	SM8112	2009	SOD200DL	1143
SK6347A	2023	SL030T	1104	SLA-100-LCD	1171	SLP-888A	088	SM-150-06	1104	SM8113	2009	SP-1	1104
SK6601/5601	1000	SL0305.T	1104	SLA-400-LCD	1173	SM07275	2009	SM-150-08	1114	SM8978	2009	SP1	1104

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SP2-01	1171	SPS401K	2023	SPS3003	2016	SPS4063	2009	SPS4478	2009	SR1EM-8	1104	SR26	1104
SP2-04	1173	SPS420	2016	SPS2015	2009	SPS4064	2023	SPS4480	2023	SR1EM-10	1104	SR-30	1101
SP4GD1	1101	SPS429	2016	SPS3329	2023	SPS4066	2009	SPS4489	2023	SR1EM-12	1104	SR30	1104
SP6GX1	1101	SPS477	2009	SPS3370	2016	SPS4067	2009	SPS4490	2030	SR1EM-16	1114	SR35	1104
SP16	2009	SPS514	2023	SPS1438	2022	SPS4068	2016	SPS4491	2009	SR1EM-20	1114	SR-37	1101
SP11	2016	SPS527	2023	SPS3724	2023	SPS4069	2009	SPS4493	2009	SR1FM	1104	SR37	1101
SP14	2041	SPS568	2023	SPS3735	2009	SPS4072	2009	SPS4494	2023	SR1FM-1	1104	SR40	1104
SP17	1617	SPS569	2009	SPS3786	2023	SPS4073	2023	SPS4495	2030	SR1FM2	1104	SR50	1104
SP18	2030	SPS5816	2016	SPS3787	2016	SPS4074	2009	SPS4498	2009	SR1FM-4	1104	SR60	1104
SP34A5	1123	SPS5817	2009	SPS3900	2009	SPS4075	2009	SPS4610	2016	SR1FM4	1104	SR-76	1104
SP80	1123	SPS5817M	1617	SPS3907	2009	SPS4076	2023	SPS4813	2023	SR1FM6	1104	SR76	1104
SP70	2023	SPS-854	2016	SPS3908	2009	SPS4076A	2023	SPS4914	2016	SR1FM-8	1104	SR-100	1143
SP90	2023	SPS856	2016	SPS3909	2009	SPS4077	2009	SPS4815	2023	SR1FM8	1144	SR100	1104
SP161	1122	SPS-160	2016	SPS3912	2030	SPS4078	2023	SPS4920	2009	SR1FM-12	1114	SR101-1	1104
SP295	1123	SPS860	2016	SPS3914	2030	SPS4079	2016	SPS5000	2009	SR1FM-12	1104	SR101-2	1104
SP3016	1104	SPS868	1617	SPS3915	2009	SPS4080	2016	SPS5006	2009	SR1FM-16	1114	SR12	1104
SP3018	2016	SPS906	2016	SPS3923	2009	SPS4081	2009	SPS5006-1	2009	SR1FM16	1114	SR-114	1143
SP3019	2016	SPS907	2009	SPS3924	2023	SPS4082	2023	SPS5006-2	2009	SR1FM-20	1114	SR114	1104
SP3020	1617	SPS915	2016	SPS3925	2009	SPS4083	2009	SPS5007	2023	SR1FM20	1114	SR-120	1104
SP3024	2030	SPS-917	2058	SPS3926	2009	SPS4084	2009	SPS5007-1	2023	SR-1HM-2	1104	SR120	1104
SP3027	2041	SPS917	2016	SPS3927	2023	SPS4085	2009	SPS5007-2	2023	SR1K	1104	SR-130-1	1104
SP3030	1104	SPS918	2009	SPS3929	2016	SPS4086	2023	SPS5008	2023	SR1K-0	1104	SR130-1	2016
SP4031	1103	SPS919	2016	SPS3930	2009	SPS4087	2023	SPS5569	2016	SR1K-1	1104	SR131-1	1104
SP4032	1114	SPS920	2058	SPS3931	2023	SPS4088	2009	SPS5809	2030	SR1K1	1204	SR-132-1	1104
SP3033	1114	SPS-934	2009	SPS3936	2009	SPS4089	2009	SPS6109	2023	SR1K-1K	1104	SR132-2	1143
SP3036	2043	SPS934	1617	SPS3937	2016	SPS4090	2023	SPS6111	2009	SR1K-2	1104	SR135-1	1104
SP3038	2009	SPS-952	2009	SPS3938	2009	SPS4091	2016	SPS6112	2009	SR1K2	1104	SR-136	1101
SP3041	2020	SPS952	2009	SPS3940	2009	SPS4095	2009	SPS6113	2009	SR-1K-2A	1114	SR136	1141
SP3046	2009	SPS-952-2	2009	SPS3948	2016	SPS4143	2016	SPS6124	2030	SR1K-4	1104	SR144	1104
SP3047	2030	SPS952-2	2009	SPS3951	2009	SPS-4145	2016	SPS6155	2058	SR1K4	1104	SR145	1104
SP3051	1114	SPS1045	1617	SPS3952	2016	SPS4145	2016	SPS6571	2009	SR1K-8	1104	SR150	1114
SP3054	2020	SPS1082	2009	SPS3957C	2009	SPS4167	2016	SPS6682	2016	SR1K8	1104	SR-150-1	1104
SP3056	565	SPS1097	2023	SPS3967	2009	SPS4168	2009	SPS6953	2023	SR1K-12	1104	SR151	1104
SP3058	561	SPS-1351	2016	SPS3968	2016	SPS4169	2009	SPS7359	2009	SR1K-16	1114	SR152	1104
SP3060	562	SPS1351	2016	SPS3971	2016	SPS4199	2009	SPS7652	2009	SR1K-20	1114	SR200	1104
SP3062	563	SPS-1352	2016	SPS3972	2009	SPS4236	2009	SPT3713	2041	SR1K-Z	1104	SR200B	1104
SP3063	564	SPS1352	2016	SPS3973	2009	SPS4300	2030	SQ46	1123	SR1KZ	1104	SR205	1104
SP3080	1114	SPS-1353	2016	SPS3987	2023	SPS4302	2023	SR-0005	1104	SR1S-1	1101	SR210	1143
SP3081	1114	SPS1353	2016	SPS3988	2023	SPS4303	2009	SR-0007	1104	SR1T	1104	SR220	1143
SP3087	1123	SPS1359	2023	SPS3990	2023	SPS4309	2030	SR-0008	1104	SR-1Z	1104	SR-390	1104
SP3088	1123	SPS1436	2020	SPS3999	2029	SPS4311	2030	SR-05K-2	1104	SR1Z	1104	SR390	1104
SP3090	1123	SPS1437	2027	SPS4000	2023	SPS4313	2009	SRO5K-2	1104	SR 2	1104	SR401	1104
SP3091	1123	SPS-1473	2016	SPS4002	2016	SPS4314	2023	SRO5K-4	1104	SR2A-1	1104	SR405	1141
SP3092	563	SPS1473	2016	SPS4003	2009	SPS4330	2023	SRO5K-8	1104	SR2A1	1104	SR475	1104
SP3096(ZENER)	564	SPS-1473RT	2058	SPS4004	2009	SPS4331	2058	SRO5K-12	1104	SR2A-2	1104	SR499	1114
SP3105	1171	SPS-1475(YT)	2009	SPS4005	2016	SPS4338	2023	SR-1	1104	SR2A2	1104	SR500	1104
SP3106	1173	SPS-1475YT	2009	SPS4006	2009	SPS4343	2016	SR1-2	1104	SR2A-4	1104	SR500B	1104
SP3112	2035	SPS-1476	2016	SPS4007	2023	SPS4344	2009	SR1A-1	1104	SR2A4	1104	SR507	1143
SP3114	2023	SPS1523	2023	SPS4008	2016	SPS4345	2023	SR1A	1104	SR2A-8	1114	SR605	1104
SP3116	2035	SPS-1539	2023	SPS4009	2009	SPS4347	2009	SR1A-2	1104	SR2A8	1104	SR806-126	1104
SP3117	2016	SPS-1539(WT)	2016	SPS4013	2023	SPS4348	2023	SR1A2	1104	SR2A-12	1114	SRE46-2	1104
SP3120	1101	SPS-1539MT	2023	SPS4014	2023	SPS4354	2023	SR1A-4	1104	SR2A12	1104	SRE81	1104
SP3121	1101	SPS1539WT	2023	SPS4016	2016	SPS4355	2023	SR1A4	1104	SR2B12	1114	SRE81-121	1104
SP3122	2009	SPS1802	2009	SPS4017	2029	SPS4356	2009	SR1A-8	1104	SR2B16	1114	SRE89	1104
SP3502	1067	SPS1817	2009	SPS4018	2009	SPS4359	2009	SR1A8	1104	SR2B20	1114	SRE124	1104
SP3510	2041	SPS1846	2058	SPS4019	2023	SPS4360	2009	SR1A12	1104	SR2K	1104	SR1104	1104
SP3512	2030	SPS1977	2009	SPS4020	2009	SPS4361	2009	SR1B	1171	SR-2T	1104	SR1266	1104
SP4436	2016	SPS1978	2023	SPS4025	2023	SPS4363	2009	SR1C-2	1102	SR-3	1104	SR1378-2	1144
SP8416	2020	SPS2104	2009	SPS4026	2023	SPS4365	2023	SR1C-4	1103	SR3	1104	SR1422	1141
SP8660	2020	SPS2110	2016	SPS4027	2023	SPS4367	2023	SR1C-6	1103	SR3AM	1114	SR1493	1104
SPC40	1617	SPS2111	2016	SPS4028	2023	SPS4368	2009	SR1C-8	1104	SR3AM1	1144	SR1549	1104
SPC42	1617	SPS2129	2009	SPS4029	2009	SPS4382	2009	SR1C-12	1104	SR3AM2	1114	SR1598	1141
SPC50	1617	SPS2130	2030	SPS4030	2016	SPS4390	2009	SR1C-16	1114	SR3AM-3	1143	SR1643A	1141
SPC51	1617	SPS2135	2058	SPS4031	2023	SPS4391	2030	SR1C-20	1114	SR3AM4	1114	SR-1668	1104
SPC52	1617	SPS2142	2009	SPS4032	2009	SPS4392	2009	SR1D-1	1104	SR3AM6	1144	SR1668	1104
SPC410	2055	SPS2164	2009	SPS4034	2009	SPS-4396	2009	SR1D1M	1104	SR3AM8	1144	SR1692	1104
SPC413	2055	SPS2167	2016	SPS4037	2009	SPS4397	2023	SR1D-2	1104	SR3BM-6	1104	SR1693	1104
SPC423	2055	SPS2194	2009	SPS4038	2030	SPS4399	2030	SR1D-4	1104	SR-4	1104	SR1694	1104
SPC424	2055	SPS2208-1	2009	SPS4039	2009	SPS-4423	2016	SR1D-6	1104	SR4	1104	SR1695	1104
SPC425	2055	SPS2216	2016	SPS4040	2009	SPS4423	2016	SR1D-8	1104	SR-5	1104	SR1731-1	1104
SPF024	2035	SPS2217	2016	SPS4041	2009	SPS4436	2058	SR1DM	1104	SR5	1104	SR1731-2	1104
SPF330	2058	SPS2224	2016	SPS4042	2009	SPS4443	2009	SR1DM-1	1104	SR-9	1104	SR1731-3	1104
SPN-01	1104	SPS2225	2009	SPS4043	2016	SPS4446	2009	SR1DM1	1104	SR10	1101	SR1731-4	1104
SPNE1	1104	SPS-2265	2016	SPS4044	2009	SPS4450	2009	SR1DM-2	1141	SR-13	1122	SR1731-5	1104
SPS0122	2030	SPS2265	2016	SPS4045	2009	SPS4451	2009	SR1DM-4	1104	SR13H	1104	SR1732	1104
SPS4	2016	SPS2265-2	2016	SPS4049	2009	SPS4452	2023	SR1DM-6	1104	SR-14	1104	SR1762	1143
SPS12	2023	SPS-2266	2016	SPS4050	2016	SPS4453	2016	SR1DM-8	1104	SR14	1101	SR1766	1104
SPS20	2016	SPS2266	2016	SPS4051	2016	SPS4455	2009	SR1DM-10	1104	SR15	1101	SR-1849-1	1104
SPS22	2023	SPS2269	2023	SPS4052	2009	SPS4456	2009	SR1DMX	1104	SR17	1104	SR1984	1104
SPS38	2016	SPS2270	2009	SPS4053	2009	SPS4457	2009	SR1E	1104	SR-18	1104	SR2121	1104
SPS40	2016	SPS2271	2016	SPS4054	2023	SPS4458	2023	SR1EM	1104	SR-20	1122	SR2301	1104
SPS41	1617	SPS2272	2023	SPS4055	2009	SPS4459	2009	SR1EM-1	1104	SR22	1104	SR2301A	1104
SPS42	2023	SPS2274	2023	SPS4056	2023	SPS4460	2023	SR1EM1	1104	SR24	1104	SR3010	1104
SPS43-1	2016	SPS2279	2023	SPS4059	2009	SPS4461	2030	SR1EM-2	1104	SR24	1104	SR352	1104
SPS47	2023	SPS2120	2016	SPS4060	2009	SPS4472	2009	SR1EM2	1104	SR 27	1104	SR3943	1104
SPS48	2030	SPS2415	2009	SPS4061	2009	SPS4473	2023	SR1EM-4	1114	SR27	1104	SR6134	1104
SPS220	2016	SPS2425	2016	SPS4062	2009	SPS4476	2009	SR1EM-6	1104	SR-28			

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SR6325	1104	SSH1A060	1104	ST55	1617	ST4204	2030	ST-HIT9016G	2058	SVD1S1850R	1104	SYL128	1123
SR6385	1104	SSH1A080	1104	ST56	1617	ST4341	2030	STI701	2055	SVD10D-1	1104	SYL152	1617
SR6415	1104	SSH3A020	1114	ST57	1617	ST5060	1617	ST-JE9014C	2009	SVD12B2B1P-M	1171	SYL1182	1617
SR6560	1104	SSH3A030	1114	ST58	1617	ST5641	2016	ST-LM2152	2009	SVD20A70	1123	SYL4131	2016
SR6567	1104	SSH3A040	1114	ST59	1617	ST6110	1617	ST-LM2682	2009	SVD20A79	1123	SYL4275	2023
SR6617	1104	SSH3A050	1114	ST60	2016	ST6120	2016	ST-MPS9410AJ	2030	SVDA52HB10	1114	SYL4280	2030
SR9003	1104	SSH3A060	1114	ST61	2016	ST6125	2016	ST-MPS9410AK	2030	SVDMA26-1	1123	SZ090	1617
SR-9005	1101	SSI202	1303	ST62	2016	ST6130	2009	ST-MPS9433	2009	SVDMA26-2	1122	SZ24.7	565
SR9005	1104	SSI1120	1144	ST63	1617	ST6510	2016	ST-MPS94335	2009	SVDOA70	1123	SZ5	565
SR20226	2058	SSI80140	1114	ST64	1617	ST6511	1617	ST-MPS9433T	2009	SVDOA90	1123	SZ5.1	565
SR20234	2009	SSI80180	1114	ST65	2016	ST6512	1617	ST-MPS9632J	2009	SVDS18B10	1171	SZ6	561
SR50411-1	1104	SSI80640	1114	ST66	2016	ST6573	2030	ST-MPS9633C	2009	SVDS-1S1850	1104	SZ6.2	561
SR63197	2023	SSI80680	1114	ST67	2016	ST6574	2030	ST-MPS9682J	2023	SVM61	561	SZ6.2A	561
SR75844	1617	SSIC0810	1143	ST68	2016	ST6593	1617	ST-MPS9700D	2009	SVM601	561	SZ-9	562
SRIDM	1104	SSIC0820	1144	ST69	2016	ST6594	1617	ST-MPS9700E	2009	SVM602	561	SZ9	562
SRIDM-1	1104	SSIC0840	1114	ST6A	1617	ST6600	1617	ST-MPS9700F	2009	SVM605	561	SZ9.1	562
SRIDM-4	1104	SSIC0880	1114	ST6B	1617	ST6601	2030	ST-MPS9700G	2009	SVM6010	561	SZ11.0	563
SRIDM-1	1104	SSIC1110	1143	ST6C	1617	ST7100	2016	ST-MPS9750D	2023	SW01	563	SZ12	563
SRIDM-2	1104	SSIC1160	1114	ST6D	1617	ST78014	2023	ST-MPS9750F	2023	SW-05	1141	SZ12.0	563
SRIDM-4	1104	SSIC1210	1143	ST6E	1617	ST78033	2023	ST-MPS9750G	2023	SW05	1104	SZ15	564
SR-1K-2	1104	SSIC1220	1144	ST6F	1617	ST8034	2023	ST-MPSH10	2058	SW-05-005	1104	SZ15.0	564
SR1K-2	1104	SSIC1240	1114	ST6G	1617	ST8035	2023	ST-MPSH24	2016	SW05-005	1104	SZ200	565
SR1K-8	1104	SSIC1280	1114	ST6H	1617	ST8036	2023	STR101(ELCOM)	1000	SW-05-01	1104	SZ200-5	565
SR1K1	1104	SSIC1740	1114	ST6I	1617	ST8065	2023	STR103(ELCOM)	1000	SW05-01	1104	SZ-200-8	565
SR1K-2	1104	SSIC1780	1114	ST6J	1617	ST8181	2023	STR201(ELCOM)	1000	SW-05-02	1104	SZ200-8	562
SRN02-100	1114 N1	SSIC1960A	1114	ST6K	1617	ST8182	2023	STR202(ELCOM)	1000	SW05-02	1104	SZ-200-9	562
SRN02-200	1114 N1	ST/217/Q	1617	ST6L	1617	ST8190	2023	STR203(ELCOM)	1000	SW-05-A	1104	SZ200-9V	562
SRN02-400	1114 N1	ST01	1617	ST6M	1617	ST8500	2023	STR403(ELCOM)	1000	SW-05-B	1104	SZ-200-12	563
SRP02-100	1114 N2	ST02	1617	ST6N	1617	ST8509	2023	STT4451	2017	SW-05-C	1114	SZ200-13	563
SRP02-200	1114 N2	ST03	1617	ST6P	1617	ST8700	2023	STV-3	1104	SW-05-D	1114	SZ200-15	564
SRP02-400	1114 N2	ST04	1617	ST6Q	1617	ST8704	2023	STX0014	2041	SW05A	1104	SZ-200-15	564
SRP100A	1104	ST05	1617	ST6R	1617	ST8705	2023	STX0027	2041	SW05B	1104	SZ671-B	563
SRP100B	1104	ST06	1617	ST6S	1617	ST8709	2023	STX0029	2027	SW05C	1114	SZ671-G	563
SRP100C	1104	ST07430	2016	ST6T	1617	ST8709	2023	STX0030	2027	SW05D	1114	SZ961-B	564
SRP100D	1104	ST2B	1104 N6	ST6U	1617	ST27020	2016	STX0032	2041	SW05E	1104	SZA-6	561
SRP100J	1104	ST-25A562Y	2023	ST6V	1617	ST47025	2023	SU2076	2035	SW05S	1104	SZ-BZ-120	563
SRP100K	1104	ST-25A673C	2023	ST6W	1617	ST2180	2023	SU2077	2035	SW05V	1104	SZC9	562
SRQ02-100	1114 N3	ST-25A733Q	2023	ST6X	2016	ST83255	2023	STA608FXXXXX	2023	SW0501	1104	SZ-EQB01-12A	563
SRQ02-200	1114 N3	ST-25A844C	2023	ST6Y	1617	ST8501	1122	STB01-02	1122	SW1	1114	SZ-HZ9B3	562
SRQ02-400	1114 N3	ST-25A1015Y	2023	ST6Z	1617	ST8568	1122	STB568	1122	SW-1-01	1114	SZP-9	562
SR5105	1101	ST-25C383W	2009	ST6A	1617	STB569	1122	STB569	1122	SUM6010	561	SW-1-02	1114
SS0007	1123	ST-25C454C	2009	ST6B	1617	STB576	1122	STB576	1122	SUM6011	561	SW-1-03	1104
SS0008	1123	ST-25C458C	2009	ST6C	2030	STB598XEXXXXX	2023	STB598XEXXXXX	2023	SUM6020	561	SW-1-04	1104
SS0009	1104	ST-25C460	2009	ST6D	2030	ST-BU208	2055	ST-BU208	2055	SUM6021	561	SW-1-06	1104
SS0010	1104	ST-25C535	2016	ST6E	2016	STC536XFXSUB	2009	STC536XFXSUB	2009	SV-01A	1104	SW-1-08	1114
SS-1	1104	ST-25C535B	2016	ST6F	2016	STC930XEXXXRI	2016	STC930XEXXXRI	2016	SV01A	1104	SW-1-10	1114
SS-2N5062	1067	ST-25C1070	2016	ST6G	2016	STC1035	2041	STC1035	2041	SV-01B	1104	SW-1A	1104
SS29A4	2023	ST-25C1213C	2009	ST6H	2016	STC1035A	2041	STC1035A	2041	SV02	1104	SW1C	1114
SS29A5	2023	ST-25C1213D	2009	ST6I	2016	STC1036	2041	STC1036	2041	SV02A	1104	SW1D	1114
SS277G	1103	ST-25C1213D-24	2009	ST6J	2016	STC1036A	2041	STC1036A	2041	SV-05	1104	SW-5-005	1104
SS321	1102	ST-25C1317Q	2009	ST6K	2009	STC1080	2041	STC1080	2041	SV05	1104	SW4001	2401
SS322	1102	ST-25C1730	2016	ST6L	2009	STC1081	2041	STC1081	2041	SV-1	1104	SW4011	2411
SS324	1102	ST-25C1855	2058	ST6M	2016	STC1082	2041	STC1082	2041	SV-1R	1104	SW4013	2413
SS325	1101	ST-25C1906	2016	ST6N	2016	STC1083	2041	STC1083	2041	SV-2	1102	SW4017	2417
SS334	1102	ST-25C1923-O	2058	ST6P	1617	STC1084	2041	STC1084	2041	SV-3	1103	SW4049	2449
SS337	1102	ST-25D235Y	2020	ST6Q	1617	STC-1085	2041	STC-1085	2041	SV-4R	1104	SWC	1114
SS455	1104	ST-25D467B	2009	ST6R	1617	STC1300	2020	STC1300	2020	SV-6R	1104	SWD	1114
SS1202	1303	ST-25D467C	2009	ST6S	1617	STC1674LXXXXX	2016	STC1674LXXXXX	2016	SV-8R	1114	SWO.5A	1104
SS1606	2023	ST9	2016	ST6T	2016	STC1800	2017	STC1800	2017	SV-9	562	SWT1032	2023
SS1906	2023	ST10	2016	ST6U	1617	STC1850	2020	STC1850	2020	SV14B	1122	SWT1042	2009
SS2308	1617	ST11	2016	ST6V	2009	STC1860	2020	STC1860	2020	SV14C	1122	SX-1.5-01	1143
SS2503	2023	ST12	2016	ST6W	2009	STC1862	2017	STC1862	2017	SV30	1123	SX-1.5-02	1143
SS2504	1617	ST13	2016	ST6X	2016	STC4252	2041	STC4252	2041	SV-31	1123	SX-1.5-04	1144
SS3534-4	2035	ST14	2016	ST6Y	2016	STC4253	2041	STC4253	2041	SV-31(DIODE)	1123	SX55	2009
SS3586	2035	ST15	2016	ST6Z	2016	STC4254	2041	STC4254	2041	SV121	565	SX-58Y	2035
SS3638	2023	ST16	1104	ST6A	2016	STC4255	2041	STC4255	2041	SV122	565	SX61M	2023
SS3638A	2023	ST18	1114	ST6B	2009	STC5202	2027	STC5202	2027	SV135	563	SX623	1104
SS3672	2035	ST25A	1617	ST6C	2009	STC5203	2027	STC5203	2027	SV138	564	SX631	1104
SS3694	1617	ST25B	1617	ST6D	1617	STC5205	2027	STC5205	2027	SV1017	563	SX633	1104
SS-3704	2035	ST25C	1617	ST6E	2009	STC5206	2027	STC5206	2027	SV1020	564	SX641	1102
SS3704	2035	ST29	2016	ST6F	2023	STC5303	2027	STC5303	2027	SV4012	563	SX642	1104
SS3735	2035	ST30	2016	ST6G	1617	STC5802	2027	STC5802	2027	SV4012A	563	SX643	1102
SS4001AE	2401	ST31	2016	ST6H	1617	STC5803	2027	STC5803	2027	SV4015	564	SX644	1103
SS4011AE	2411	ST32	2016	ST6I	2009	STC5805	2027	STC5805	2027	SV4015A	564	SX645	1103
SS4013AE	2413	ST33	2016	ST6J	2009	STC5806	2027	STC5806	2027	SV12388	1104	SX780	1122
SS4042	2016	ST34	2016	ST6K	2009	STD330XEXXXXX	2020	STD330XEXXXXX	2020	SV12388E	1104	SX3001	2016
SS6724	2023	ST35	2016	ST6L	2009	STD734FXFXXXX	2009	STD734FXFXXXX	2009	SVB10-100	1171	SX3702	2023
SS9328	2009	ST40	2016	ST6M	1104	ST2040P	2017	ST2040P	2017	SVB15-100	1171	SX3709	2009
SSA43	2023	ST41	2016	ST6N	2016	ST2110	2016	ST2110	2016	SVC625	561	SX3711	2009
SSA43A	2023	ST42	2016	ST6P	2016	ST2120	2016	ST2120	2016	SVDO2Z9.5A	562	SX3819	2035
SSA46	2023	ST43	2016	ST6Q	2016	ST2130	2016	ST2130	2016	SVDO2Z9.5A	562	SX3825	2016
SSA46A	2023	ST44	2016	ST6R	1617	ST3030	1617	ST-HIT9012H	2023	SVDOA70	1123	SX3826	2058
SSA48	2023	ST45	2016	ST6S	1617	ST3031	1617	ST-HIT9012H	2023	SVDOA79	1123	SX3827	2016
SSD708	1122	ST50	1617	ST6T	2030	ST4150	2030	ST-HIT9013H	2009	SVDOA90	1123	SY-23	1104
SSD974	1104	ST51	1617	ST6U	2030	ST4201	2030	ST-HIT9013H	2009	SVD1S1717	562	SY23	1103
SSH1A020	1101	ST53	1617	ST6V	2030	ST4202	2030	ST-HIT9014C	2009	SVD1S1850	1104	SY-24	1104
SSH1A040	1101	ST54	1617	ST6W	2030	ST4203	2030	ST-HIT9014C	2009	SVD-1S1850R	1104	SY24	1103

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
T0807DH	1000	T106A15C	1000	T277	2009	T1450	1104	T2323B	1000	T220001040	2035	TAG201-400	1000
T0807BH	1000	T106A15D	1000	T-291	2030	T1486	2020	T2323C	1000	T407185152	2023	TAG222-400	1000
T0807DH	1000	T106A15G	1000	T291	2009	T1487	2020	T2323D	1000	TA1Z	2030	TAG611-100	1007
T0810RH	1000	T106A15H	1000	T300	1104	T1495	1617	T2323F	1617	TA2A	2009	TAG611-200	1007
T0810DJ	1000	T106A15S	1000	T301	2016	T1602	2023	T2327A	1000	TA2T00733Q	2023	TAG611-400	1020
T0810DH	1000	T106A25C	1000	T327	2009	T1642B	1617	T2327B	1000	TA2T00952L	2023	TAG612-100	1067
T0810DJ	1000	T106A25D	1000	T327-2	2009	T1706	2030	T2327C	1000	TA3	1114	TAG612-200	1067
T0812BH	1000	T106A25G	1000	T328	2009	T1706A	2030	T2327D	1000	TA3T006080	2023	TAG612-400	1020
T0812BJ	1000	T106A25H	1000	T336-2	2030	T1706B	2030	T2327F	1000	TA3T0608K0	2023	TAIT00101P	2023
T0812DH	1000	T106A25S	1000	T-339	2030	T1706C	2030	T2446	1617	TA3T0608KF	2023	TALT007330	2023
T0812DJ	1000	T106B1	1067	T339	2009	T1746	1617	T2634	2016	TA5	1114	TAV	1114
T0813BJ	1000	T106B15C	1000	T340	2023	T1746A	1617	T2801B	1000	TA-6	1617	TB-1	1171
T0813DJ	1000	T106B15D	1000	T342	2009	T1746B	1617	T2802B	1000	TA6	1617	TB-4	1173
T0.8N0.8A00	1067	T106B15G	1000	T381	2016	T1746C	1617	T2806B	1000	TA-7	2016	TB4.1	1102
T0.8N1A00	1067	T106B15H	1000	T381(SEARS)	2016	T1748	1617	T2857	2016	TA7	1617	TB5	1141
T0.8N2A00	1067	T106B15S	1000	T386	1617	T1748A	1617	T3530	2016	TA50	1104	TB100	1143
T0.8N3A00	1020	T106B25C	1000	T386(SEARS)	2016	T1748B	1617	T3536	2016	TA100	1104	TB200	1143
T0.8N4A00	1020	T106B25D	1000	T-399	2009	T1748C	1617	T3539	2016	TA200	1104	TBB1456B	038
T1-1A6	1617	T106B25G	1000	T399	2009	T1802	1617	T3565	2009	TA300	1104	TBC337	2016
T1G	1123	T106B25H	1000	T400	1104	T1802A	1617	T-3568	2016	TA400	1104	TBC338	2016
T1J1G	1104	T106B25S	1000	T416-16(SEARS)	2009	T1802B	1617	T3568	2016	TA500	1104	TBC414E	2009
T1N300	1020	T106C1	1020	T417	2009	T1804	1617	T3568(RCA)	2016	TA600	1104	TBC547	2016
T1N400	1020	T106C15C	1000	T430	1104	T1805	1617	T3570	2023	TA721KP	1114	TBC548	2016
T1P29	2020	T106C15D	1000	T452	2030	T1810	1617	T3601	2009	TA800	1114	TBC549	2016
T1P29X	2020	T106C15G	1000	T457-16	2009	T1810B	1617	T3601(RCA)	2016	TA1000	1114	TBC550	2016
T1P31	2020	T106C15H	1000	T457-16(SEARS)	2009	T1811	2030	T4590	1123	TA1062	1104	TBRC147B	2009
T1P31A	2020	T106C15S	1000	T458-16	2009	T1811E	2030	T6000B	1000	TA1063	1104	TC02P12	1104
T1S14	2035	T106C25C	1000	T459(SEARS)	2009	T1811G	2009	T6006B	1000	TA1064	1104	TC02P112	1104
T1S-18	2058	T106C25D	1000	T460	2009	T1909	1617	T7400B1	1801	TA1222	1067	TC0914	2016
T1S18	2058	T106C25G	1000	T460(SEARS)	2023	T2300A	1000	T7400D1	1801	TA1225	1020	TC0918	2016
T1S18	2058	T106C25H	1000	T461-16	2009	T2300B	1000	T7400D2	1801	TA2401	2016	TC0.09M21/2	1101
T1S18	2058	T106C25S	1000	T461-16(SEARS)	1617	T2300C	1000	T7400E1	1801	TA2503	2016	TC-0.09M21/8	1101
T1S18	2058	T106C25S	1000	T462	2009	T2300D	1000	T7401D1	1801	TA2554	2016	TC0.09M22/1	1101
T1S18	2058	T106C25S	1000	T462(SEARS)	2009	T2300F	1000	T7401D2	1801	TA2555	2016	TC0.2P11/2	1101
T1S18	2058	T106C25S	1000	T472	2009	T2300PA	1000	T7404B1	1802	TA2577A	2041	TC0.2P11/12	1101
T1S18	2058	T106C25S	1000	T472(SEARS)	2009	T2300PB	1000	T7408B1	1822	TA2888	1067	TC2T009450	2009
T1S18	2058	T106C25S	1000	T475(SEARS)	2023	T2300PC	1000	T7408D1	1822	TA2889	1067	TC3T005360	2009
T1S18	2058	T106C25S	1000	T482(SEARS)	2023	T2300PD	1000	T7408D2	1822	TA2892	1000	TC3T0536K0	2009
T1S18	2058	T106C25S	1000	T483(SEARS)	2009	T2300PF	1000	T7490B1	1808	TA2911	2020	TC3T0536KF	2009
T1S18	2058	T106C25S	1000	T484(SEARS)	2009	T2301A	1000	T7490D1	1808	TA6200	2030	TC3T030000	2009
T1S18	2058	T106C25S	1000	T485(SEARS)	2009	T2301B	1000	T7400D2	1808	TA7137	2020	TC5T0338A0	2009
T1S18	2058	T106C25S	1000	T-486	2016	T2301D	1000	T9011A1C	2009	TA7156	2020	TC5T013154	2009
T1S18	2058	T106C25S	1000	T486(SEARS)	2009	T2301F	1000	T9011A1G	2009	TA7199	2041	TC13L82	1067
T1S18	2058	T106C25S	1000	T486(SEARS)	2009	T2301PA	1000	T9011AZ	2009	TA7200	2041	TC30	1141
T1S18	2058	T106C25S	1000	T500	1104	T2301PB	1000	T9011EF	2016	TA7201	2041	TC100	1143
T1S18	2058	T106C25S	1000	T500	1104	T2301PB	1000	T9011G	2016	TA7202	2041	TC106A1	1067
T1S18	2058	T106C25S	1000	T576-1	2016	T2301PB5	1000	T9011G	2016	TA7202	2041	TC106A1	1067
T1S18	2058	T106C25S	1000	T597-1	2023	T2301PD	1000	T9011G(CD)	2009	TA7205	705	TC106A2	1067
T1S18	2058	T106C25S	1000	T600	1104	T2301PD5	1000	T9011G(EF)	2009	TA7205A	705	TC106A3	1067
T1S18	2058	T106C25S	1000	T611-1	2020	T2302A	1000	T9011G(EF)	2016	TA7205AP	705	TC106A4	1067
T1S18	2058	T106C25S	1000	T612-1	2020	T2302B	1000	T9011H	2016	TA7205AT	705	TC106B	1067
T1S18	2058	T106C25S	1000	T650	1104	T2302C	1000	T9011H(EF)	2009	TA-7205P	705	TC106E1	1067
T1S18	2058	T106C25S	1000	T-700-709	1123	T2302D	1000	T9011H(EF)	2009	TA7205P	705	TC106E2	1067
T1S18	2058	T106C25S	1000	T700-709	1123	T2302F	1000	T9011J(EF)	2009	TA7262	2020	TC106E3	1067
T1S18	2058	T106C25S	1000	T-750-713	1123	T2302PA	1000	T9016F	2016	TA7343	2020	TC106E4	1067
T1S18	2058	T106C25S	1000	T-750-714	562	T2302PA5	1000	T9016H	2016	TA7500	1000	TC106C1	1020
T1S18	2058	T106C25S	1000	T800	1114	T2302PB	1000	T9423	2058	TA7501	1000	TC106C2	1020
T1S18	2058	T106C25S	1000	T800X	1114	T2302PB5	1000	T9631	2009	TA7502	1000	TC106C3	1020
T1S18	2058	T106C25S	1000	T-1000	1114	T2302PD	1000	T9681	2023	TA7504	007	TC106C4	1020
T1S18	2058	T106C25S	1000	T-1000X	1114	T2302PD5	1000	T10144	1104	TA7504P	007	TC106B1	1020
T1S18	2058	T106C25S	1000	T1000X	1114	T2303F	1000	T10175	1104	TA7554	2020	TC106D2	1020
T1S18	2058	T106C25S	1000	T1003-521	2016	T2304B	1000	T10185	1104	TA7555	2020	TC106D3	1020
T1S18	2058	T106C25S	1000	T1007(ZENITH)	2016	T2305B	1000	T10195	1171	TA7556	2027	TC106D4	1020
T1S18	2058	T106C25S	1000	T1008-834	2009	T2305D	1000	T10453	1104	TA7557	2027	TC106E1	1067
T1S18	2058	T106C25S	1000	T1010BH	1000	T2306A	1000	T12015	2030	TA8991	2055	TC106F2	1067
T1S18	2058	T106C25S	1000	T1010BJ	1000	T2306B	1000	T14881	1104	TA75339	1712	TC106F3	1067
T1S18	2058	T106C25S	1000	T1012BH	1000	T2306D	1000	T21237	1123	TA75339P	1712	TC106F4	1067
T1S18	2058	T106C25S	1000	T1012BJ	1000	T2310A	1000	T21238	1123	TA75458P	038	TC106Q1	1067
T1S18	2058	T106C25S	1000	T1013BH	1000	T2310B	1000	T21271	1123	TA75557P	038	TC106Q2	1067
T1S18	2058	T106C25S	1000	T1013BJ	1000	T2310D	1000	T21312	1104	TA75558P	038	TC106Q3	1067
T1S18	2058	T106C25S	1000	T1085	1104	T2312A	1000	T21313	1123	TA75559P	038	TC106Q4	1067
T1S18	2058	T106C25S	1000	T1106	2016	T2312B	1000	T21333	1104	TA75559P(FA-1)	038	TC106Y1	1067
T1S18	2058	T106C25S	1000	T1202(GE)	2016	T2312D	1000	T21334	562	TA75559PFA-1	038	TC106F2	1067
T1S18	2058	T106C25S	1000	T1208	2085	T2312F	1000	T21507	1104	TA78005AP	1770	TC106F3	1067
T1S18	2058	T106C25S	1000	T1340A3H	2030	T2313A	1000	T21600	1123	TA78005P	1770	TC106F4	1067
T1S18	2058	T106C25S	1000	T1340A3I	1617	T2313B	1000	T21602	1104	TAA320	2035	TC136	1104
T1S18	2058	T106C25S	1000	T1340A3J	1617	T2313D	1000	T21639	562	TAAC047	1617	TC200	1143
T1S18	2058	T106C25S	1000	T1340A3K	1617	T2320A	1000	T21649	1104	TAG1-200	1067	TC2369A	2016
T1S18	2058	T106C25S	1000	T1341A3K	2016	T2320C	1000	T21679	1104	TAG1-400	1020	TC2483	2016
T1S18	2058	T106C25S	1000	T1402	2016	T2320D	1000	T30155-001	1104	TAG2.5-100	1067	TC2484	2016
T1S18	2058	T106C25S	1000	T1408	2058	T2320F	1000	T30155-1	1104	TAG2.5-200	1067	TC3114	2016
T1S18	2058	T106C25S	1000	T1410	2016	T2322A	1000	T42692-001	1104	TAG2.5-300	1067	TC4001BP	2401
T1S18	2058	T106C25S	1000	T1413	2023	T2322B	1000	T42692-1R	1104	TAG2.5-400	1020	TC4001P	2401
T1S18	2058	T106C25S	1000	T1414	1617	T2322C	1000	T59235A	1617	TAG200-100	1000	TC4001UBP	2401
T1S18	2058	T106C25S	1000	T1415	2009	T2322D	1000	T164213	2030	TAG200-200	1000	TC4009UBP	2449
T1S18	2058	T106C25S	1000	T1416	2009	T2322E	1000	T1003521	2016	TAG200-400	1000	TC4011	2411
T1S18	2058	T106C25S	1000</										

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TC4011P	2411	TCG507	1101	TCG7408	1822	T-E1014	1123	TE3398	2016	TG25A608C	2023	TG25C2057-C	2058
TC4011UBP	2411	TCG519	1122	TCG7447	1805	TE-1014	1123	TE3414	1617	TG25A608F	2023	TG25C2057-D	2058
TC4013	2413	TCG524V13	568	TCG7490	1808	TE1014	1123	TE3415	1617	TG25A608K	2023	TG25C2057-E1	2058
TC4013B	2413	TCG552	1104	TCG75188	2520	T-E1024	1104	TE3416	2030	TG25A608K(,25A608K	[F])	TG25C2057C	2058
TC4013BCP	2413	TCG778A	038	TCG75189	2521	TE1024	1104	TE3605	1617	[F])	2023	TG25C2057D	2058
TC4013BP	2413	TCG823	1731	TCH98	2023	T-E1024C	1104	TE3605A	1617	TG25A608NP	2023	TG25C2274	2009
TC4013P	2413	TCG834	1712	TCH99	2023	TE1024C	1104	TE3606	2009	TG25A608NP	2023	TG25C2274(F)	2009
TC4017BP	2417	TCG923D	1740	TCH99B	2023	T-E1024D	1104	TE3606A	2009	(,25A608NP(G))	2023	TG25C2274E	2009
TC4017P	2417	TCG941M	007	TCIT00501P	2009	TE1024D	1104	TE3607	1617	TG25A608NPF	2023	TG25C2274E	2009
TC4049BP	2449	TCG955M	1723	TCL0009450	2009	T-E1029	1101	TE3662	2016	TG25A608NPF	2023	TG25C2274E	2009
TC4049P	2449	TCG956	1778	TCLT009450	2009	TE-1029	1122	TE3663	2016	(,25A608NP(G))	2023	TG25C2274E	2009
TC7400	1801	TCG960	1770	TCO2P112	1104	TE1029	1104	TE3704	1617	TG25A608NPF	2023	TG25C2274F	2009
TC900388A0	2009	TCG966	1771	TCO914	2009	T-E1031	1123	TE3705	1617	TG25A608SP	2023	TG25C2999	2016
TC30005360	2009	TCG968	1772	TCO.09M22/1	1171	TE-1031	1123	TE3707	2016	TG25A608SP(,25A608SP	[G])	TG25D313	2020
TC30031560	2055	TCG978	1728	TCT009450	2009	TE1031	1123	TE3708	2016	[G])	2023	TG25D313E	2020
TC311200600	1123	TCG987	1711	TD-15-8L	1122	T-E1042	1171	TE3709	2016	TG25A608SPF	2023	TG25D313E(,25D313(E))	2020
TC312307222	2009	TCG1155	705	TD100	2009	TE1042	1104	TE3710	2016	TG25A608SPF	2023	TG25D313E(,25D313(F))	2020
TC3112006000	1123	TCG1232	703	TD102	2009	T-E1050	1104	TE3711	2016	(,25A608SP(G))	2023	TG25D313E(,25D313(F))	2020
TC3112319300	1104	TCG3007	026	TD200	2009	TE-1050	1104	TE3843	2016	TG25A659	2023	TG25D325-1	2017
TC3123036722	1617	TCG3012	033	TD201	2009	TE1050	1104	TE3844	2016	TG25A953(,25A953(L))	2023	TG25D613D	2020
TC3123036900	1617	TCG3022	041	TD202	2009	T-E1064	1104	TE3845	2016	TG25A984	2023	TG25D613D(,25D613(E))	2020
TC3123037111	1617	TCG3026	025	TD250	2009	T-E1068	563	TE3854	2016	(,25A984(F))	2023	TG25D613E	2020
TC3123037222	1617	TCG3047	134	TD400	2023	TE1068	563	TE3854A	2016	TG25A984(,25A984(F))	2023	TG25D613E(,25D613(E))	2020
TC3123037412	1617	TCG3056	075	TD401	2023	T-E1077	563	TE3855	2016	TG25A984E	2023	TG25D613E(,25D613(E))	2020
TCG2V130	570	TCG3115	081	TD402	2023	TE1077	563	TE3855A	2016	(,25A984E)	2023	TG25D734	2009
TCG85	2009	TCG4001B	2401	TD500	2023	T-E1078	1104	TE3859	2016	TG25A984E(,25A984(F))	2023	TG25D734(,25D734(G))	2009
TCG107	2016	TCG4011B	2411	TD501	2023	TE1078	1104	TE3860	2016	TG25A984K	2023	TG25D734(,25D734(G))	2009
TCG108	2016	TCG4013B	2413	TD502	2023	T-E1078A	1104	TE3900	2016	(,25A984K)	2023	TG21	1104
TCG108-1	2016	TCG4017B	2417	TD503	1067	T-E1080	1104	TE3900A	2016	TG25A984K(,25A984K	[F])	TG22	1104
TCG109	1123	TCG4049	2449	TD550	2023	TE1080	1104	TE3901	2016	(,25A984KE(,25A984K	[F])	TG31	1104
TCG110	1123	TCG4049B	2449	TD1003	1067	T-E1088	1104	TE3903	1617	(,25A984KE)	2023	TG32	1104
TCG110MP	1123	TCG5009A	565	TD1401	1801	TE1088	1104	TE3904	1617	TG25A1016	2023	TG41	1104
TCG111	1101	TCG5010A	565	TD1401P	1801	T-E1089	1104	TE3905	2023	(,25A1016)	2023	TG42	1104
TCG111A	1104	TCG5013A	561	TD2003	1067	TE1089	1104	TE3906	2023	(,25A1016)	2023	TG48	1123
TCG111A	1114	TCG5017A	562	TD2219	2009	T-E1090	1104	TE4123	1617	TG25B511-1	2027	TG51	1104
TCG120	1101	TCG5018A	562	TD2905	2023	TE1090	1114	TE4124	1617	TG25B698	2023	TG52	1104
TCG123	1617	TCG5021A	563	TD3003	1020	T-E1097	1104	TE4125	2023	(,25B698(G))	2023	TG61	1104
TCG123A	1617	TCG5024A	564	TD3400A	1801	TE1097	1104	TE4126	2023	TG25B698F	2023	TG62	1104
TCG123AP	2009	TCG5069A	565	TD3400AP	1801	T-E1098	1122	TE4256	2016	TG25B698F(,25B698(G))	2023	TG62	1104
TCG125	1114	TCG5070A	561	TD3400P	1801	TE1098	1123	TE4409	2009	(,25B698(G))	2023	TG62	1104
TCG128	2020	TCG5073A	562	TD3401A	1801	T-E1102	1104	TE4424	1617	TG25B698F	2023	TG62	1104
TCG130	2041	TCG5304	1173	TD3401AP	1801	T-E1102A	1104	TE4951	1617	TG25B698F(,25B698(G))	2023	TG62	1104
TCG132	2035	TCG5400	1067	TD3404A	1802	T-E1105	1123	TE4952	1617	(,25B698(G))	2023	T-G5033	2030
TCG133	2035	TCG5401	1067	TD3404AP	1802	TE1105	1123	TE4953	1617	TG25C536	2009	T-G5055	2030
TCG135A	565	TCG5402	1067	TD3447A	1805	T-E1106	563	TE4954	1617	TG25C536(C)	2009	TG80331	2009
TCG137A	561	TCG5403	1067	TD3447AP	1805	T-E1108	1101	TE5088	2016	TG25C536(E)	2009	T-H15557	1114
TCG139A	562	TCG5404	1067	TD3490A	1808	TE1108	1104	TE5089	2016	TG25C536-D-A	2009	T-H15557	1114
TCG141A	563	TCG5405	1020	TD3490AP	1808	T-E1116	1123	TE5249	2016	TG25C536-E	2009	T-H25C313	2016
TCG142A	563	TCG5408	1067	TD3490P	1808	T-E1118	1122	TE5309	2016	TG25C536-E-A	2009	T-H25C387	2016
TCG145A	564	TCG5409	1020	TD4003	1020	T-E1119	1122	TE5310	2016	TG25C536-E-B	2009	T-H25C535	2016
TCG152	2020	TCG5411	1067	TD81515	1122	T-E1121	1122	TE5311	2016	TG25C536-F	2009	T-H25C536	2009
TCG153	2027	TCG5412	1067	TD81518	1122	T-E1122	1114	TE5365	2023	TG25C536-F-A	2009	T-H25C693	2016
TCG156	1114	TCG5413	1067	TD960016-1M	1122	T-E1124	1104	TE5366	2023	TG25C536E	2009	T-H25C693	2009
TCG159	2023	TCG5414	1067	TD3214739	562	T-E1127	1114	TE5368	1617	TG25C536NP	2009	T-H25C715	2009
TCG159MCP	2009&23	TCG5415	1020	TD3214742	563	T-E1133	1104	TE5369	1617	(,25C536NP)	2009	TH507	1104
TCG161	2016	TCG5452	1067	TD3214744	564	T-E1138	1104	TE5370	1617	TG25C536NP(,25C536NP	[G])	TH507	1104
TCG164	2055	TCG5453	1067	TD3907572	562	T-E1140	563	TE5371	1617	TG25C536NPF	2009	TH400	1104
TCG165	2055	TCG5454	1067	TD3907592	563	T-E1144	1104	TE5376	1617	TG25C536NPF(,25C536NPF	[G])	TH600	1104
TCG166	1171	TCG5455	1067	TD3909632	563	T-E1148	1104	TE5377	1617	(,25C536NP(G))	2009	TH800	1114
TCG168	1173	TCG5456	1020	TD3909652	564	T-E1155	1104	TE5378	2023	TG25C536SP(,25C536SP	[G])	TH801	1104
TCG177	1122	TCG5457	1020	TDA1412	1771	T-E1157	1104	TE5379	2023	TG25C536SP(,25C536SP	[G])	TH802	1104
TCG178MP	1122	TCG5473	1020	TDA1415	1772	T-E1171	1104	TE5447	2023	(,25C536SP)	2009	TH803	1104
TCG186	2017	TCG5511	1067	TDA1458D	038	T-E1176	1104	TE5448	2023	TG25C536SPF	2009	TH804	1104
TCG196	2020	TCG5512	1020	TDA1520A	1305	T-E1177	1123	TE5449	1617	(,25C536SPF)	2009	TH805	1104
TCG199	2016	TCG5600	1000	TDA2002	703	TE1420	1617	TE5450	1617	(,25C536SPF)	2009	TH806	1104
TCG219	2043	TCG5601	1000	TDA7000	1304	TE1990	2030	TE5451	1617	TG25C927(C)	2016	TH808	1114
TCG229	2058	TCG5602	1000	TD80555B	1723	TE2369	1617	TE13004	2023	TG25C927-C-A	2016	TH810	1114
TCG233	2009	TCG5603	1000	TD80555DP	1723	TE2484	2016	TE13005	2023	TG25C927-D-A	2016	TH1000	1114
TCG234	2023	TCG5604	1000	TD80556A	1728	TE2711	2016	TEG0129	2016	TG25C927-E-A	2016	THD3600	1104
TCG238	2055	TCG5605	1000	TD80723A	1740	TE2712	2016	TEH0147	2009	TG25C1175	2009	TH-H25C313	2016
TCG241	2020	TCG5608	1000	TDB7805T	1770	TE2715	2016	TEH0149	2009	(,25C1175(C))	2009	T-H56105	1104
TCG261	2068	TCG5627	1000	TDB7812T	1771	TE2716	2016	TF20	1104	TG25C1175-C	2009	T-HSG105	1104
TCG280	2041	TCG5633	1000	TDB7815T	1772	TE2921	2016	TF21	1104	TG25C1175-D	2009	THZ821	561
TCG281	2043	TCG5640	1000	TE35	1067	TE2922	2016	TF22	1104	TG25C1175-E	2009	THZ822	561
TCG289	2009	TCG5641	1000	TE55	1067	TE2923	2016	TF23	1104	TG25C1293	2009	THZ823	561
TCG289A	2009	TCG5642	1000	TE105	1067	TE2924	2016	TF44	1122	(,25C1293)	2016	THZ824	561
TCG290	2023	TCG5650	1000	TE205	1067	TE2925	2016	TF5056344G	1020	TG25C1293(A)	2016	THZ825	561
TCG290A	2023	TCG5651	1000	TE305	1020	TE2926	2016	TF-78	1617	TG25C1293-B-A	2016	THZ826	561
TCG291	2020	TCG5652	1000	TE405	1020	TE3390	2016	TFR105	1114	TG25C1293-C-A	2016	THZ827	561
TCG312	2035	TCG5800	1141	TE500	2035	TE3391	2016	TFR110	1114	TG25C1293-D-A	2016	THZ828	561
TCG319	2009	TCG5801	1143	TE-500-E	2035	TE3391A	2016	TFR-120	1104	TG25C1293-O	2055	TI-51	1122
TCG319P	2009	TCG5802	1143	TE697	1617	TE3392	2016	TFR120	2016	(,25C1293-O)	2055	TI51	1122
TCG331	2020	TCG5803	1144	TE706	2016	TE3393	2016	TFR140	1114	TG25A608	2023	TI	

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TI52	1104	TI-492	2016	TIP31A	2020	TI583	2009	TIK712	2009	TL107-1	1067	TM319	2009
TI53	1101	TI492	1617	TIP31B	2020	TI584	2058	TIK804	2023	TL107-2	1067	TM331	2090
TI54	1101	TI-493	2016	TIP31C	2020	TI585	2016	TIK805	2023	TL107-4	1020	TM340	2089
TI54A	1617	TI493	1617	TIP41	2020	TI586	2058	TIK876	2016	TL413	145	TM377	2020
TI54D	2016	TI-494	2016	TIP41A	2020	TI587	2058	TIK880	2016	TL1555P	1723	TM507	1101
TI54E	1617	TI494	1617	TIP41B	2020	TI5-88	2035	TIK890	2023	TL4558P	038	TM519	1122
TI-55	1104	TI-495	2016	TIP41C	2020	TI588	2035	TIK891	2023	TL7400N	1801	TM552	1104
TI55	1104	TI495	1617	TIP73	2020	TI589	2009	TIK753	561	TL7401N	1801	TM778	038
TI-56	1141	TI-496	2030	TIP73A	2020	TI590	2009	TIK-M14	2016	TL7404N	1802	TM778A	038
TI56	1104	TI496	1617	TIP73B	2020	TI590-GRN	2009	TIK-M15	2016	TL7447AN	1805	TM823	1731
TI57	1102	TI-503	2023	TIP73C	2020	TI590-GRY	1617	TIK-M16	2016	TL7490N	1808	TM834	1712
TI58	1103	TI503	2023	TIP100	2068	TI590-YEL	2009	TIK509	2016	TLC555	1718	TM923E	1740
TI59	1104	TI6#2B	2009	TIP101	2068	TI590M-GRN	2009	TIK510	2016	TLR104	033	TM941M	007
TI60	1103	TI-714	1617	TIP102	2068	TI590M-GRY	1617	TIK512	2009	TLR-107	033	TM955M	1723
TI-71	1104	TI714	1617	TIP110	2068	TI590M-VIO	1617	TIK513	2009	TLR123	026	TM960	1770
TI71	1104	TI-714A	1617	TIP111	2068	TI590M-YEL	2009	TIK528	2016	TLR124	026	TM966	1771
TI-92	1617	TI-741	2035	TIP112	2068	TI591	2023	TIK529	2016	TLR-147	033	TM968	1772
TI92	1617	TI741	2035	TIP120	2068	TI591-BLU	2023	TIK530	2016	TLR312	075	TM978	1728
TI152	1104	TI-743	2023	TIP121	2068	TI591-GRN	2023	TIK531	2016	TM33	1104	TM987	1711
TI159	1102	TI743	2023	TIP122	2068	TI591-VIO	2023	TJ5A	1104	TM43	1104	TM1155	705
TI-365A	1171	TI-744	2023	TIP130	2068	TI591-YEL	2023	TJ10A	1104	TM61	1114	TM1232	703
TI-407	2016	TI744	2023	TIP131	2068	TI591M	2023	TJ15A	1104	TM62	1104	TM1613	1617
TI407	2016	TI-751	1617	TIP132	2068	TI591M-BLU	2023	TJ20A	1104	TM63	1104	TM1614	2023
TI-408	2016	TI751	1617	TIP551	2055	TI591M-GRN	2023	TJ25A	1104	TM65	1104	TM1711	1617
TI408	2016	TI-752	2023	TIP552	2055	TI591M-GRY	1617	TJ30A	1104	TM66	1104	TM1712	2023
TI-409	2016	TI752	2023	TIP553	2055	TI591M-VIO	2023	TJ35A	1104	TM84	1114	TM2613	2009
TI409	2016	TI802B	1617	TIP3055	2020	TI591M-YEL	2023	TJ40A	1104	TM85	1114	TM2614	2023
TI410	2016	TI803B	1617	TIR01	1104	TI592	2009	TJ60A	1104	TM86	1114	TM2711	2009
TI411	1617	TI-806G	1617	TIR02	1104	TI592-B	1617	TK5	1102	TM104	1114	TM2712	2023
TI-412	1617	TI810B	1617	TIR03	1104	TI592-BLU	2009	TK10	1104	TM105	1114	TM4001B	2401
TI412	1617	TI811G	2030	TIR04	1104	TI592-G	1617	TK11	1104	TM107	2016	TM#011B	2411
TI-413	1617	TI-890	2023	TIR05	1104	TI592-GRN	2009	TK20	1104	TM108	2016	TM4012B	2413
TI413	1617	TI890	2023	TIR06	1104	TI592-GRY	2009	TK21	1104	TM109	1123	TM4013B	2413
TI-414	1617	TI904	1617	TIR07	1114	TI592-V	1617	TK30	1104	TM110	1123	TM40#9B	2449
TI414	1617	TI-905	2023	TIR08	1114	TI592-VIO	2009	TK-40	1104	TM110MP	1123	TM500#A	565
TI-415	2016	TI905	2023	TIR09	1114	TI592-Y	1617	TK-41	1104	TM114	1101	TM5010	565
TI415	1617	TI-907	1617	TIR10	1114	TI592-YEL	2009	TK50	1104	TM115	1101	TM5010A	565
TI-416	2016	TI907	1617	TI5-03	2023	TI592M	2030	TK60	1104	TM116	1104	TM5013A	561
TI416	1617	TI-908	1617	TI503	2023	TI592M-GRN	2009	TK61	1104	TM120	1101	TM5017A	562
TI-417	2016	TI908	1617	TI504	2023	TI592M-GRY	1617	TK200A	2020	TM123	1617	TM5018A	562
TI417	1617	TI3015	2030	TI5-1B	2016	TI592M-YEL	2009	TK201A	2020	TM123A	1617	TM502 A	563
TI-418	2016	TI-3016	2016	TI514	2035	TI593	2023	TK254A	1617	TM123AP	2009	TM#024A	564
TI418	1617	TI3016	2016	TI5-18	2016	TI593-B	2023	TK255A	1617	TM125	1114	TM506#A	565
TI-419	2016	TI8003B	2009	TI518	2016	TI593-BLU	2023	TK256A	1617	TM128	2030	TM5070	561
TI419	1617	TI64213	2030	TI522	1617	TI593-G	2023	TK257A	1617	TM130	2041	TM5070A	561
TI-420	2016	TI606	1617	TI523	1617	TI593-GRN	2023	TK258A	1617	TM132	2035	TM5073	562
TI420	1617	TI6102	1617	TI524	2016	TI593-GRY	2023	TK259A	1617	TM133	2035	TM5073A	562
TI-421	2016	TI644	1067	TI534	2035	TI593-V	2023	TK264A	1617	TM135	565	TM5404	1067
TI-422	1617	TI645	1067	TI537	2023	TI593-VIO	2023	TK400	1104	TM135A	565	TM5414	1067
TI422	1617	TI646	1067	TI538	2023	TI593-YEL	2023	TK600	1104	TM137	561	TM5452	1067
TI-423	1617	TI647	1067	TI542	2035	TI593M-BLU	2023	TK800	1114	TM137A	561	TM5453	1067
TI#23	1617	TI6106Y	1067	TI544	1617	TI593M-GRN	2023	TK1000	1114	TM139	562	TM5455	1067
TI-424	2030	TI6201A	1000	TI545	1617	TI593M-VIO	2023	TK1228-1008	1617	TM139A	562	TM5800	1141
TI#24	1617	TI6201B	1000	TI546	1617	TI593M-YEL	2023	TK1228-1009	1617	TM141	563	TM5802	1143
TI-425	2030	TI6201C	1000	TI547	1617	TI594	2016	TK1228-1010	1617	TM141A	563	TM5804	1144
TI425	2030	TI6201D	1000	TI548	1617	TI594	2009	TK1228-1011	1617	TM142	563	TMD01	565
TI-428	2023	TI6205A	1000	TI549	1617	TI594(AFAMP)	2009	TK1228-1012	1617	TM142A	563	TMD01A	565
TI428	2023	TI6205B	1000	TI550	2023	TI594(XSTR)	2009	TKF5	1104	TM145	564	TMD03	561
TI-429	2023	TI6205D	1000	TI551	1617	TI5-97	2016	TKF10	1104	TM145A	564	TMD03A	561
TI429	2023	TI6206A	1000	TI552	1617	TI597	2009	TKF20	1104	TM152	2020	TMD07	562
TI-430	2016	TI6206B	1000	TI553	2023	TI5-98	2009	TKF40	1104	TM153	2027	TMD07A	562
TI#30	1617	TI6206C	1000	TI554	2023	TI598	2016	TKF60	1104	TM156	1114	TMD10	563
TI-431	2016	TI6206D	1000	TI555	1617	TI599	2016	TKF80	1114	TM159	2023	TMD10A	563
TI#31	2016	TI6216A	1000	TI556	2016	TI6104	2023	TKF100	1114	TM161	2016	TMD41	1122
TI-432	1617	TI6216B	1000	TI557	2016	TI6105	2058	TKTA562-O	2023	TM164	2055	TMD42	1102
TI432	1617	TI6216C	1000	TI558	2035	TI6107	2030	TKTA1015Y	2023	TM165	2055	TMD45	1102
TI-433	1617	TI6216D	1000	TI559	2035	TI6108	2058	TKTC1815Y	2009	TM166	1171	TMPD6050	1104
TI433	1617	TI6225A	1000	TI560	2009	TI6110	2009	TKTC2120Y	2009	TM168	1173	TMPD6100	1104
TI-474	2016	TI6225B	1000	TI560A	2030	TI6111	2030	TL072CP	1715	TM177	1122	TMT695	2016
TI474	2016	TI6225C	1000	TI560B	2030	TI6112	2023	TL1	1104	TM178MP	1122	TMT697	2016
TI-475	2030	TI6225D	1000	TI560C	2030	TI6113	1617	TL2	1104	TM186	2017	TMT839	2016
TI475	2030	TI6226A	1000	TI560D	2030	TI6114	1617	TL25C2021R	2016	TM196	2020	TMTB40	2016
TI-#80	2030	TI6226B	1000	TI560E	2030	TI6125	2009	TL11	1104	TM199	2016	TMT841	2016
TI#80	1617	TI6226C	1000	TI560M	2030	TI6125	2058	TL12	1104	TM219	2043	TMT842	2016
TI-#81	2030	TI6226D	1000	TI561	2023	TI6126	2058	TL21	1104	TM229	2058	TMT843	2016
TI481	2030	TI6536F	2009	TI5-62	2009	TI6129	2058	TL22	1104	TM233	2009	TMT1543	1617
TI-#82	2030	TI6381	1101	TI562	2016	TI6133	2009	TL31	1104	TM234	2023	TMT2427	2016
TI482	1617	TI6209A	026	TI562A	2016	TI6134	2009	TL32	1104	TM238	2055	TN25A733	2023
TI-483	2030	TI6414	145	TI563	2016	TI6135	2030	TL41	1104	TM241	2020	TN25A733(,25A733(P))	2023
TI483	1617	TI6906-1	143	TI563A	2016	TI6136	2016	TL42	1104	TM242	2055	TN25A733(,25A733(Q))	2023
TI-#84	2030	TI614	2020	TI564	2016	TI6137	2023	TL51	1104	TM261	2068	TN25A733-Q-B	2023
TI#84	1617	TI624	2020	TI564A	2016	TI6142	2016	TL61	1104	TM280	2041	TN25A733-R	2023
TI#85	1617	TI6-29	2020	TI571	1617	TI5991	2023	TL106-05	1067	TM281	2043	TN25A733-Q	2023
TI#86	2020	TI629	2020	TI572	1617	TI5992	2009	TL106-1	1067	TM289	2009	TN25A733-Q-B	2023
TI487	2020	TI629A	2020	TI578	2035	TI5993	2023	TL106-2	1067	TM290	2023	TN-25A733-Q-B	2023
TI-#90	2016	TI6-30	2027	TI579	2035	TI-UG-1888	1122	TL106-4	1020	TM291	2020	TN-25A733-Q	2023
TI490	2016	TI631	2017	TI582	2017	TI-UG1888	1122	TL107-05	1067	TM312	2035	TN25A733-R	2023

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TN25A733-A	2023	TNC61703	2023	TO1-101	1617	TQ7	2016	TR-1R33	2009	TR70	2058	TR-8004-4	2016
TN25A733K	2023	TNJ6672(RECT)	1104	TO1-104	1617	TQ8	2016	TR-1R35	2016	TR-75	563	TR8004-4	2009
TN25A733K(.25A733(E))	2023	TNJ1034	2016	TO1-105	1617	TQ9	2016	TR2A	1104	TR75	563	TR-8004-5	2016
TN25A733P	2023	TNJ1036	2009	TP20-0284	561	TQ53A	2023	TR-2R31	2016	TR-76(IR)	2020	TR-8007	2023
TN25A733P	2023	TNJ60069(25C74)	2016	TP34	1123	TQ54A	2023	TR-2R33	2016	TR76(IR)	2020	TR-8007(FISHER)	2023
TN25A733P(.25A733(Q))	2023	TNJ60076	2009	TP34A	1123	TQ-59	2023	TR-2R35	2016	TR-77	1104	TR-8010	2016
TN25A733Q	2023	TNJ60447	2016	TP101	1104	TQ-60	2023	TR2S1570LH	2016	TR-77(IR)	2027	TR8010	2009
TN25A733R	2023	TNJ60448	2016	TP107	2009	TQ-61	2023	TR25A763	2023	TR77(IR)	2027	TR-8014	1617
TN25A733R	2023	TNJ60449	2016	TP107A	2009	TQ61	2023	TR-25C367	2009	TR-80	2016	TR8014	1617
TN25A952L	2023	TNJ-60604	2009	TP107B	2009	TQ61A	2009	TR-25C371	2016	TR80	2016	TR-8019	2027
TN25A952L(.25A952(M))	2023	TNJ60604	2016	TP108	2009	TQ-62	2023	TR-25C372	2016	TR-83	2016	TR8019	2027
TN25A953	2023	TNJ-60605	2016	TP108A	2009	TQ62	2023	TR-25C373	2009	TR83	2016	TR8020	2023
TN25A953	2023	TNJ60605	2016	TP108B	2009	TQ62A	2023	TR25C373	2009	TR-86	2009	TR-8021	2030
TN25A953(.25A953(L))	2023	TNJ-60606	2009	TP108C	2009	TQ-63	2023	TR-25C384	2016	TR86	2009	TR8021	1617
TN25A953K	2023	TNJ60606	2016	TP109	2009	TQ-64	2023	TR-25C482	2030	TR-87	2020	TR-8023	2030
TN25A953K(.25A953(L))	2023	TNJ-60607	2009	TP109A	2009	T-Q5049	2016	TR25C535	2016	TR-93	2055	TR-8024	2030
TN25A953K(.25A953(L))	2023	TNJ60607	2016	TP109B	2009	TQ5049	2016	TR-25C735	2009	TR93	2055	TR-8025	2009
TN25A1175	2023	TNJ61217	2016	TP109C	2009	TQ-5052	2009	TR25C1342	2016	TR-95	562	TR8025	2009
TN25A1175(.25A1175(E))	2023	TNJ61218	2016	TP201	1104	TQ5052	2009	TR25C1570LH	2009	TR95	2016	TR-8026	2023
TN25A1175(.25A1175(E))	2023	TNJ61219	2009	TP251A	2023	T-Q5053	2009	TR25D330E	2020	TR-95(B)	562	TR-8027	2035
TN25A1175(.25A1175(M))	2023	TNJ61220	1617	TP252A	2023	TQ-5053	2009	TR25K55	2035	TR-95(IR)	2016	TR8027	2035
TN25A1175(.25A1175(M))	2023	TNJ61671(25C688)	2016	TP253A	2023	TQ5053	2009	TR-3R31	2016	TR-95(XSTR)	2016	TR-8028	2016
TN25C945	2009	TNJ61672(25K25)	2035	TP302	1164	T-Q5053C	2009	TR-3R33	2009	TR-95B	562	TR8028	1617
TN25C945(.25C945(K))	2009	TNJ61673	2035	TP402	1104	TQ-5054	2009	TR-3R35	2016	TR125	564	TR-8029	2016
TN25C945(.25C945(K))	2009	TNJ61673(25K24)	2035	TP3566	2009	TQ5054	2009	TR-3R38	1617	TR125B	564	TR8029	1617
TN25C945(.25C945(P))	2009	TNJ61679	2016	TP3638	2023	T-Q5055	2016	TR-4R31	2030	TR-162(OLSON)	1617	TR-8030	2016
TN25C945-Q	2009	TNJ61730	2016	TP3644	2023	TQ-5055	2030	TR-4R33	1617	TR-163(OLSON)	2016	TR8030	1617
TN25C945-R	2009	TNJ61731	2016	TP3645	2023	TQ5055	2030	TR-4R35	2016	TR-164(OLSON)	2030	TR-8031	2016
TN25C945K	2009	TNJ70450	2017	TP3702	2023	TQ-5060	2009	TR-4R38	2023	TR-167(OLSON)	2023	TR8031	1617
TN25C945R	2009	TNJ70478	2016	TP3703	2023	TQ5060	2030	TR-5R31	2030	TR-171	2016	TR-8032	2016
TN25C945K(.25C945(P))	2009	TNJ70478-1	2016	TP3704	2023	T-Q5063	2009	TR-5R33	1617	TR209T2	562	TR-8034	2016
TN25C945K(.25C945(P))	2009	TNJ70479	2016	TP3705	2016	T-Q5071	2016	TR-5R35	1617	TR271TR26	2041	TR8034	2009
TN25C945K(.25C945(P))	2009	TNJ70479-1	2009	TP3706	2016	T-Q5073	1617	TR-5R38	1617	TR302	1617	TR-8035	2009
TN25C945K(.25C945(P))	2009	TNJ70480	2016	TP3707	2009	T-Q5077	2023	TR55	565	TR601	1617	TR8035	2009
TN25C2002	2009	TNJ70482	2030	TP3708	2009	T-Q5078	2009	TR-6R33	1617	TR-1000-2	2023	TR-8036	2030
TN25C2002(.25C2002(L))	2009	TNJ70484	2016	TP3709	2009	T-Q5079	2016	TR-6R35	2023	TR-1000-3	2030	TR8036	2030
TN25C2002(.25C2002(L))	2009	TNJ70537	1617	TP3710	2009	T-Q5081	2030	TR65	561	TR-1000-7	2041	TR-8037	2023
TN25C2002(.25C2002(M))	2009	TNJ70539	1617	TP3711	2009	TQ5081	2030	TR-7R31	2030	TR1001	2030	TR-8038	2016
TN25C2002K	2009	TNJ70637	2009	TP4001	2401	T-Q5083	2055	TR-7R35	1617	TR1003	2030	TR8038	2009
TN25C2002K(.25C2002(L))	2009	TNJ70638	2058	TP4001AN	2401	T-Q5084	2055	TR-75B	563	TR1005	2030	TR-8039	2009
TN25C2002K(.25C2002(L))	2009	TNJ70639	2009	TP4001BN	2401	T-Q5086	2016	TR-8R35	1617	TP1007	2041	TR8039	2009
TN25C2002K(.25C2002(L))	2009	TNJ70660	2009	TP4001BP	2401	T-Q5087	2023	TR-9G5	562	TR1011	2009	TR-8040	2016
TN25C2002K(.25C2002(L))	2009	TNJ70691	2016	TP4009UBN	2449	T-Q5093	2016	TR95	562	TR1025	2041	TR8040	2009
TN25C2002K(.25C2002(L))	2009	TNJ71034	2016	TP4011	2411	T-Q5099	2030	TR-9S	562	TR1030	2023	TR-8042	1617
TN25C2002K(.25C2002(L))	2009	TNJ71035	2030	TP4011AN	2411	T-Q5105	2041	TR95	562	TR-1030-1	2023	TR8042	2016
TN25C2785	2009	TNJ71036	2009	TP4011B	2411	T-Q5106	2016	TR-95A	562	TR1030-1	2023	TR-8043	2016
TN25C2785(.25C2785(F))	2009	TNJ71037	2023	TP4011BN	2411	TR0055	2023	TR-95B	562	TR-1030-2	2023	TR8043	1617
TN25C2785E	2009	TNJ71143	2016	TP4011BP	2411	TR-01(PENNCREST)	2030	TR95B	562	TR1030-2	2023	TR8053	1617
TN25C2785E(.25C2785(F))	2009	TNJ71173	2016	TP4013	2413	TR-01B	2016	TR12EBM	563	TR1031	2009	TR8330	2009
TN25C2785E(.25C2785(F))	2009	TNJ71234	2030	TP4013AN	2413	TR-01B(PENNCREST)	2016	TR12SA	563	TR-1031-1	2009	TR9100	1617
TN25C2785H	2009	TNJ71271	2016	TP4013BN	2413	TR-01C(PENNCREST)	1617	TR-19	2023	TR-1031-2	2009	TR-9100-18	1617
TN25D568K	2020	TNJ71277	2016	TP4017	2417	TR-01C(PENNCREST)	1617	TR19	2023	TR1032	2023	TR12001-4	1123
TN25K68A	2036	TNJ71498	2016	TP4017AN	2417	TR-01E	1617	TR-20	2023	TR1032-1	2023	TR14002-6	563
TN25K68A(.25K68A(M))	2036	TNJ71629	2016	TP4049	2449	TR-01E(PENNCREST)	2030	TR20	2023	TR1032-2	2023	TR14002-12	564
TN25K68A(.25K68A(M))	2036	TNJ71773	2023	TP4049AN	2449	TR-01E(PENNCREST)	2030	TR-20A	2023	TR1033	1617	TR36643	2030
TN10	1114	TNJ71774	2023	TP4049UBN	2449	TR-02E	1104	TR-21	1617	TR-1033-1	1617	TR310230	2016
TN-53	1617	TNJ71937	2016	TP4067-409	1104	TR-06(PENNCREST)	1617	TR21	1617	TR-1033-2	1617	TR310231	1617
TN53	1617	TNJ71963	2016	TP4067-410	2016	TR-07(PENNCREST)	2030	TR-21C	2009	TR-1033-3	1617	TR310243	1617
TN-54	1617	TNJ71964	2016	TP4067-411	2016	TR01014	2016	TR-22	2009	TR1033-3	1617	TR310244	2016
TN54	1617	TNJ71965	2016	TP4123	1617	TR01015	2009	TR-22C	2009	TR1034	2023	TR310245	1617
TN55	1617	TNJ72146	2055	TP4124	1617	TR01026	2016	TR23	2030	TR-1037-3	2017	TR310249	2016
TN56	1617	TNJ72148	2041	TP4125	2023	TR01037	2030	TR-24	2016	TR1038-4	2043	TR310250	2016
TN-59	1617	TNJ72149	2055	TP4126	2023	TR01040	2016	TR24	2016	TR1038-5	2043	TR320007	1123
TN59	1617	TNJ72150	2016	TP4257	2023	TR01042	2016	TR-24(PHILCO)	2009	TR-1039-4	2041	TR320008	1123
TN-60	1617	TNJ72151	2016	TP4258	2023	TR01053-1	2023	TR-25	2030	TR1039-4	2041	TR320020	1104
TN60	1617	TNJ72154	2023	TP4275	2016	TR01054-7	2030	TR25	2030	TR1039-5	2041	TR320022	1104
TN-61	1617	TNJ72275	2016	TP5135	2009	TR01062-1	2030	TR-26	2041	TR1039-6	2041	TR320039	1123
TN61	1617	TNJ72276	2009	TP5136	2009	TR01073	2009	TR-26	2041	TR1077	2041	TR320041	1123
TN-62	1617	TNJ72277	2016	TP5142	2023	TR01074	2009	TR28	2023	TR1490	2041	TR320048	1123
TN62	1617	TNJ72279	2016	TP56512	1617	TR02020-2	2023	TR-29	2043	TR1491	2041	TR330027	1104
TN-63	1617	TNJ72280	2009	TP56513	1617	TR02051-1	2023	TR-30	2023	TR1492	2041	TR330027	1104
TN63	1617	TNJ72281	1617	TP56514	1617	TR02051-5	2023	TR30	2023	TR1493	2041	TR330031	1102
TN-64	1617	TNJ72288	2030	TP56515	1617	TR02051-6	2023	TR-30A	2023	TR1512-80	2016	TR330041	1102
TN64	1617	TNJ72368	2016	TP56516	2023	TR02062-1	2023	TR-31	2023	TR1993-2	1617	TR330048	1123
TN80	1617	TNJ72701	2016	TP56517	2023	TR02062-6	2023	TR31	2023	TR2083-41	1123	TR330073	2009
TN237	1617	TNJ72775	2017	TP56518	2023	TR02063-8	2023	TR33	2016	TR2083-42	1122	TR330074	2009
TN238	1617	TNJ72783	1617	TP56519	2023	TR06011	2035	TR38	2016	TR2083-44	1122	TR330075	2016
TN421	2030	TNJ72784	1617	TP56520	1617	TR06014	2035	TR-51	2009	TR2083-70	2035	TR330076	1617
TN-3200	2016	TNT839	2016	TP56521	1617	TR010602-1	2016	TR-53	2030	TR2083-71	2009	TR330077	2016
TN3200	2016	TNT840	2016	TP56522	2023	TR0573486	2009	TR-55	2017	TR2083-72	2009	TR330078	2016
TN-3903	1617	TNT841	2016	TP56523	2023	TR0573491	2009	TR-59	2041	TR2083-73	2009	TR330079	2016
TN3903	1617	TNT842	1617	TQ1	2016	TR0573507	2009	TR59	2041	TR2083-74	2016	TR330080	2027
TN-3904	1617	TNT843	2016	TQ2									

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TR228735045311	2016	TT25A9500(.25A950(Y))	2023	TV48	1617	TV24215	2009	TVM-EH2C11/1	1104	TVS-25C208A	2016	TVSB1202V	1102
TR228735046011	2016		2023	TV-50	2009	TV24216	2009	TVM-EH2C11/1 + 12/1	1104	TVS-25C287A	2016	TVSB1204	1114
TR228735048617	2016	TT25A1015	2023	TV50	2016	TV24221	1104		1104	TVS-25C313	2016	TVSB2404C	1104
TR228735048618	2016	TT25A1015(.25A1015(Y))	2023	TV-51	2009	TV24224	562	TVM-EH2C12/1	1104	TVS-25C429A	2016	TVSB2404D	1104
TR228735120325	2035		2023	TV51	2030	TV24225	1114	TVM100.09D1115	1104	TVS-25C446	2016	TVSB2804D	1104
TR228736002003	1123	TT25A1015G	2023	TV-52	2009	TV-24232	1104	TVM100.09M1115	1104	TVS-25C538	1617	TVSB4302	1104
TR228736002004	1123	TT25A1015G(.25A1015	2023	TV52	2030	TV24232	1104	TVM-M204B	1104	TVS-25C538A	1617	TVSB4304	1104
TRA-4	1617	[Y])	2023	TV-53	1617	TV24234	1104	TVM204B	1104	TVS25C538A	1617	TVSB4304V	1104
TRA4	1617	TT25C1627(Y)	2009	TV53	2030	TV-24237	1101	TVM-PH9D22/1	1104	TVS-25C562	2016	TVSBAX-13	1122
TRA-4A	1617	TT25C1627Y	2009	TV-54	2009	TV24237	1101	TVM-PH9D22/1	1104	TVS25C562	2016	TVSBAX13	1122
TRA4A	1617	TT25C1815	2009	TV54	2016	TV-24266	1104	TVM-P16D22/1	1171	TVS-25C563	2016	TVSB82A	1104
TRA-4B	2009	TT25C1815G	2009	TV-55	2009	TV24266	1104	TVMTC00921-3	1101	TVS25C563	2016	TVSB82A	1104
TRA#B	1617	TT25C1815G(.25C1815	2009	TV55	2016	TV24273	1123	TVM-TCO.2P	1101	TVS-25C563A	2016	TVSC0410	1114
TRA-9R	2016	[Y])	2009	TV-56	1617	TV24278	1104	TVM-TCO.2P11/2	1104	TVS-25C564	2023	TVSC0510	1114
TRAPR	1617	TT25C2458G	2009	TV56	1617	TV24281	1104	TVM-TCO.2P	1101	TVS25C564	2023	TVSC1255H	2030
TRA34	1617	TT25C2458G(.25C2458	2009	TV-57	2023	TV24282	1104	TVM-TCO.2P1	1101	TVS25C564-O	2023	TVSC2406M	1104
TRA36	1617	[Y])	2009	TV57	2016	TV24283	1104	TVR-06B	1104	TVS25C564O	2023	TVSC0510	1114
TRAPLC711	1617	TT25D843Y	2020	TV-58	2009	TV24285	1171	TVR-06D	1104	TVS25C564R	2023	TVS-CS1255H	1617
TRAPLC871	1617	TT66X26	1104	TV58	2016	TV24292	1104	TVR06D	1104	TVS-25C582	2030	TVSC1255H	2030
TRAPLC1013	2017	TT204	2016	TV-59	2030	TV24298	1104	TVR-06G	1104	TVS-25C582A	2030	TVS-CS1255HF	1617
TR-BC147B	1617	TT204A	2016	TV59	2030	TV24313	2016	TVR06G	1104	TVS-25C605	2016	TVS-CS1303	2023
TRBC147B	1617	TT204AB	2016	TV-60	2009	TV24363	2022	TVR-06G23	1104	TVS-25C606	2016	TVSD1M	1114
TR-BC149C	2016	TT204B	2016	TV60	2016	TV24372	1617	TVR-06GG23	1104	TVS-25C644	2016	TVS-DS-1K	1104
TR-E109	2035	TT204C	2016	TV-62	2009	TV24378	1144	TVR-06K	1104	TVS25C644	2016	TVS-DS1K	1104
TRL104LED	033	TT1097	1617	TV-65	2009	TV24380	2016	TVR06K	1104	TVS-25C645	2016	TVSD51K	1104
TRO1026	2009	TTT-25C1000GB	2016	TV65	2009	TV24382	2016	TVR-1B	1104	TVS25C645	2016	TVS-DS-1M	1104
TRO1037	2016	TTT-25C1000GBL	2016	TV-66	2009	TV24383	2016	TVR1B	1104	TVS-25C645A	2016	TVS-DS1M	1104
TRO1042	2016	TV25C208	1617	TV66	2009	TV24385	2016	TVR1D	1104	TVS25C645A	2016	TVSD5-1M	1104
TRO1051-5	2009	TV4	1104	TV-67	2030	TV24387	2016	TVR1D(TP)	1104	TVS-25C645B	2016	TVSD51M	1104
TRO1054-1	2030	TV-6	2009	TV67	2009	TV-24399	2016	TVR-1G	1104	TVS25C645B	2016	TVS-DS2K	1104
TRO#011	2035	TV6	2009	TV-68	2009	TV24399	2016	TVR1G	1104	TVS-25C645C	2016	TVSD5-2K	1114
TRO10692-1	2009	TV-7	2016	TV68	2009	TV24436	2016	TVR1G(TP)	1104	TVS25C645C	2016	TVSD52K	1114
TRPLC711	2016	TV7	2009	TV-73	2017	TV24437	2016	TVR-1J	1104	TVS25C647	2041	TVSD52M	1114
TR#6	561	TV8	1114	TV74	2017	TV24438	2016	TVR1J	1104	TVS-25C683	2016	TVSEA01-07R	56#
TR-RR38	1617	TV15	2016	TV-75	2017	TV24453	1617	TVR1J(TP)	1104	TVS25C683	2016	TVSEM1	110#
TRSR3AM	1114	TV-15A	2016	TV-77	2009	TV24454	1617	TVR-2	1104	TVS-25C683V	2016	TVSEM1Z	1102
TR-TR38	1617	TV15A	2016	TV80	2035	TV24458	1617	TVR2B	1104	TVS-25C684	2016	TVSEM1ZV	1102
TR-U1650E	2035	TV-15B	2016	TV81	2009	TV24495	2023	TVR-2D	1104	TVS25C684	2016	TVSEQA01-05T	565
TR-U1650E-1	2035	TV15B	2016	TV-82	2017	TV24554	1122	TVR2D	1104	TVS-25C762	2016	TVSEQA01-065	561
TR-U1835E	2035	TV15C	2016	TV-83	2035	TV24571	2016	TVR-2G	1104	TVS25C762	2016	TVSEQB01-12	563
TS05	1104	TV-16	2016	TV83	2035	TV24573	2016	TVR2G	1104	TVS-25C828	2009	TVSEQB01-15	564
TS04200	561	TV16	2016	TV-84	2009	TV24574	2016	TVR2J	1104	TVS25C828	2009	TVSEQB01-15Z	56#
TS0P100	562	TV-17	2009	TV84	2009	TV24576	1617	TVS001-065B	561	TVS25C828(Q)	2009	TVSERB-06B	1104
TS1	1104	TV17	1617	TV-87	2023	TV24582	1104	TVS010D1	1104	TVS-25C828A	2009	TVSERB12-02	1114
TS2	1104	TV-18	1617	TV87	2023	TV24589	2016	TVS-0A70	1123	TVS25C828B	2009	TVSERB24-04D	1104
TS2A	1104	TV18	2016	TV-92	2009	TV24651	1141	TVS0A70	1123	TVS25C828P	2009	TVSERB24-06	1104
TS3	1114	TV18B	2009	TV92	2009	TV24655	1617	TVS-0A71	1144	TVS-25C828Q	2009	TVSERB24-06A	1104
TS4	1144	TV-20	2009	TV-93	2023	TV24684	2016	TVS0A71	1104	TVS25C828Q	2016	TVSERB24-06B	1104
TS5	1104	TV20	2016	TV93	2023	TV24803	1104	TVS-0A82G	1123	TVS25C828R	2009	TVSERCO508	1114
TS6	1104	TV-21	1617	TV105	2043	TV24806	2016	TVS-0A90	1123	TVS25C829(B)	2009	TVSERC0510	1114
TS8	1114	TV-22	2016	TV110	2043	TV24941	1104	TVS0A90	1123	TVS25C829	2016	TVSERC0510V	1114
TS#7-1	2023	TV-23	1617	TV-112	2020	TV24942	1114	TVS-0A91	1123	TVS-25C948	2016	TVSE1	1104
TS-337	563	TV23	2030	TV112	2020	TV24979	1104	TVS0A91	1123	TVS25C968	1617	TVSESA06	1173
TS#218	2030	TV25	2030	TV-115	2020	TV24985	1101	TVS-0A95	1123	TVS25C1129A	2058	TVS-ET1P	1104
TS#219	2030	TV-26	2030	TV115	2016	TV34232	1104	TVS1FSD-1	1104	TVS25C1629A	2055	TVSEU1Z	1104
TS2221	1617	TV-28	2030	TV-116	2027	TV241013	1123	TVS1N741A	563	TVS25C5640	2023	TVSEU2	1104
TS2222	1617	TV-32	2009	TV-117	2020	TV241073	1104	TVS1N741H	563	TVS3DL2	1104	TVSEU2A	1104
TS2779	2009	TV32	2016	TV117	2020	TV241074	1104	TVS1N4148	1122	TVS10D	1104	TVS-FR1MD	1104
TS2904	2023	TV-33	2009	TV-124	2055	TV241077	2009	TVS1N4148TE	1122	TVS10D1	1104	TVS-FR-1P	1104
TS2905	2023	TV33	2016	TV124	2055	TV241078	2009	TVS1N4148V	1122	TVS10D2	1104	TVS-FR1P	1104
TS2906	2023	TV-34	2009	TV-125	2055	TV242248	1104	TVS1N4150V	1122	TVS-10D8	1104	TVSFR1P	1104
TS2907	2023	TV-35	2009	TV10G0	2016	TV3	1104	TVS1P20	1104	TVS10D8	1104	TVS-FR-1P(FR1P)	1104
TS9013	2016	TV35	2016	TV2403	2016	TVC3	1101	TVS1P80	1104	TVS10DC4	1104	TVS-FR1PC	1104
TSB-245	1104	TV-36	2016	TV2404	2016	TVC-6	1101	TVS-1518	1114	TVS10DC4R	1104	TVSFR1PC	1104
TS#245	1104	TV36	2009	TV2419	2016	TVC6	1101	TVS15954	1122	TVS10E1	1104	TVSFR2-02	1104
TSB-1000	1104	TV-37	2016	TV2496	1104	TVCM-61	038	TVS-151211	1122	TVS10E2	1104	TVSFR2-02C	1104
TSC136	1122	TV37	2009	TV24100	1104	TVCM-81	705	TVS151850	1104	TVS10E4	1104	TVSFR2-06	1114
TSC159	1104	TV-38	2016	TV24102	2016	TVCM-500	1801	TVS-151893	1141	TVS25C208	1617	TVS-FR-2M	1104
TSC-499	2016	TV38	1617	TV24104	1104	TVCM-503	1805	TVS-151906	1104	TVS25C562	1617	TVS-FR2M	1104
TSC499	1617	TV-39	2016	TV24122	1123	TVCM-505	1808	TVS151906	1104	TVS25C645	1617	TVS-FR2P	1104
TSC614	2016	TV39	1617	TV24125	1104	TVCM-553	2030	TVS-151922	1141	TVS30D1	1114	TVS-FR2PC	1114
TSC695	1617	TV-40	1617	TV24136	1104	TVH-526	1101	TVS151950	1104	TVS-185D	1104	TVSFR2PC	1104
TSC-721	2030	TV40	1617	TV24155	1104	TVH526	1101	TVS152076	1122	TVS185D	1104	TVS-FR10	1104
TSC722	2030	TV-41	2030	TV24160	2016	TVM35	1104	TVS-25C5645A	1617	TVS550	1104	TVS-FR11	1104
TSC767	2016	TV41	2030	TV24161	2016	TVM56	1104	TVS-25288A	2016	TVS-828A	1617	TVS-FR1P	1104
TSV-1000	1104	TV-42	2009	TV24167	1104	TVM511	1104	TVS25A543	2023	TVS828A	1617	TVS-FR10	1114
TSZ5.1	565	TV42	2030	TV24180	1104	TVM526	1101	TVS-25A564	2023	TVS-1303	2023	TVS-FU1N	1104
TSZ6.2	561	TV-43	2030	TV24183	1104	TVM529	1171	TVS25A564	2023	TVS-1850	1144	TVSFU1N	1104
TSZ9.1	562	TV43	2009	TV-24191	1104	TVM-530	1122	TVS-25A564A	2023	TVS2406M	1104	TVSFUIN	1104
TSZ12	563	TV-44	2023	TV24191	1104	TVM-535	1104	TVS25A564A	2023	TVS81202	1104	TVSG4011BCM	2411
TT25A495-0	2023	TV44	2023	TV24193	1104	TVM546	1101	TVS25A564C	2023	TVSB01-02	1104	TVSGP2-354	1122
TT25A495-0-A	2023	TV-45	2030	TV24200	1104	TVM550	1104	TVS-25A564P	2023	TVSB012-2	1122	TVS-HFSD1Z	1104
TT25A495-0-A	2023	TV45	2030	TV24203	2016	TVM-554	1101	TVS25A564P	2023	TVSB0102	1104	TVS-HF-SD-12	1104
TT25A495-O-A	2023	TV-46	1617	TV24204	2016	TVM554A	1122	TVS25A564Q	2023	TVSB0102V	1104	TVSHZ5C1	

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TVSJA1A	1104	TVSRMP5020	1104	TX-107-1	1617	TZ352	2023	U1994E	2035	UC110	2035	UP12222B	2009
TVSJA14AM	1104	TVSRU2	1104	TX107-1	1617	TZ1029-01	2055	U2400-03	1104	UC115	2035	UP14046	2017
TVSKA1200	2016	TVSHU2AM	1104	TX-107-3	2016	TZ1151	2016	U288B-1	1617	UC120	2035	UP14046-46	2009
TVSKC2-LP	1104	TVSRU2AN	1104	TX107-3	1617	TZ1152	2016	UA78M05C	1770	UC125	2035	UP14047	2017
TVSKC2CP12/1	1104	TVSRU2M	1104	TX-107-4	1617	TZ1153	1122	UA78M05UC	1770	UC155	2035	UP14047-46	2009
TVS-KC2DP12/2	1104	TVSRU3AN	1104	TX107-4	1617	TZ1160	1617	UA78M12	1771	UC201	2035	UPB201C	1801
TVS-KC2DP12/1	1104	TVS-S1B02-03C	1104	TX-107-5	1617	TZ1180	1617	UA78M12C	1771	UC210	2035	UPB201D	1801
TVSL78M12RL	1771	TVS-S1B02-03CR	1104	TX107-5	1617	TZ1182	1617	UA78M12CKC	1771	UC220	2035	UPB215C	1801
TVS-MA242C	1104	TVSS1R8D	1104	TX-107-6	1617	TZ1700	2030	UA78M12CKD	1771	UC241	2035	UPB215D	1801
TVSMI15RC	1104	TVSS1R20	1122	TX107-6	1617	TZ7001	1617	UA78M12UC	1771	UC547C	1617	UPB219C	1808
TVSMI155C	1104	TVSS3-2	1104	TX-107-10	1617	TZ7002	2009	UA78M15C	1772	UC588	2035	UPB219D	1808
TVSMR1C	1114	TVSS3G4	1114	TX107-10	1617	TZ7003	2009	UA78M15CKC	1772	UC701	2035	UPB234C	1822
TVSMR-1M	1114	TVSS4C	1104	TX-107-12	2016	TZ7500	2023	UA78M15CKD	1772	UC703	2035	UPB234D	1822
TVS-OA70	1123	TVSS54	1122	TX107-12	1617	TZ7501	2023	UA78M15UC	1772	UC714	2035	UPB235D	1802
TVSOA71	1104	TVSSA-2	1104	TX-107-16	1617	TZ7503	2023	UA224DM	1711	UC734	2035	UPB240D	1805
TVS-OA81	1123	TVSSA-2B	1114	TX107-16	1617	TZ89-1A	562	UA324DC	1711	UC734E	2035	UPB7400C	1801
TVS-OA90	1123	TVSSA2B	1104	TX-108-1	2009	TZ89-1B	562	UA324PC	1711	UC750	2035	UPB7404C	1802
TVSOA90	1123	TVSSA2H	1114	TX108-1	1617	TZ812A	563	UA339ADC	1712	UC751	2035	UPB7447C	1805
TVS-OA91	1123	TVS-SB-20	1114	TX-112-1	1617	TZ812B	563	UA555	1723	UC752	2035	UPC78M05	1770
TVS-OA95	1122	TVS-SD-1	1104	TX112-1	1617	TZ815A	564	UA555IC	1723	UC753	2035	UPC78M12	1771
TVS-OV-02	1104	TVSSD1A	1104	TX-119-1	1617	TZ815B	564	UA555TC	1723	UC756	2035	UPC78M12H2	1771
TVS-PC02P11/2	1104	TVS-SD-1B	1114	TX120	2016	TZPD4-7	565	UA556DC	1728	UC1100	2023	UPC143-05	1770
TVS-PCD2P11/2	1104	TVS-SD1B	1114	TX121	2023	TZPD5-1	565	UA556DM	1728	UC2136	2035	UPC151C	007
TVSPCD2P11/2	1104	TVSSD-1Y	1104	TX122	2023	TZPY4-7	565	UA556PC	1728	UC2138	2035	UPC177C	1712
TVSQA01-065B	561	TVSSD-14	1104	TX-122-1	2023	TZPY5-1	565	UA723CA	1740	UC2139	2035	UPC215C	1801
TVSQA01-07R	564	TVSSIR8O	1104	TX-124	2030	U0-5E	1144	UA723CJ	1740	UC2148	2035	UPC251C	038
TVSQA01-125	563	TVS-SPN01	1104	TX124	2030	U05-E	1114	UA723CN	1740	UC2149	2035	UPC324C	1711
TVSQA01-155	564	TVSSR2K	1104	TX124-1	1617	U05B	1114	UA723DC	1740	UC7933	1771	UPC339C	1712
TVSQA105R	565	TVSSV02	1104	TX125	2023	U05C	1114	UA723DM	1740	UCD125	1122	UPC451C	1711
TVSQA112R1	563	TVSSV-05	1104	TX-128-1	1617	U05E	1144	UA723HM	1740	UCD227	1122	UPC741C	007
TVSQA112R1	563	TVS-TC009M11/10	1104	TX128-1	2030	U05ES	1114	UA723JML	1740	UD5B	1114	UPC1238V	703
TVSQA112R1-2	563	TVS-TC009M21/3	1101	TX-134-1	2023	U06E	1104	UA723PC	1740	UDZ8709	562	UPC1458C	038
TVSQA205AB	565	TVS-TC0-09M21/3	1101	TX-135	2030	U0A	1104	UA741A	007	UDZ8712	563	UPC2002	703
TVSQA205E	563	TVS-TC0-09M11/10	1104	TX135	2030	U1	1104	UA741CJG	007	UDZ8715	564	UPC2002V	703
TVSQA205F	565	TVS-TC-0-09M21/3	1101	TX-138	1617	U1S102	1104	UA741CP	007	UES1001	1101	UPC4001C	2401
TVSQA205GV3	565	TVS-TC0-09M21/3	1101	TX138	2030	U1Z	1104	UA741CV	007	UF01	1104	UPC4558	038
TVSQA209M	562	TVSUC78M12H2	1771	TX-140	2030	U2	1104	UA741DC	007	UF-1	1104	UPC4558D	038
TVSQB01-15ZB	564	TVSUF2	1104	TX140	2030	U2A	1104	UA741DM	007	UF-1A	1104	UPC4580	1770
TVSQB106P	561	TVS-UFSD-1	1104	TX-141	1617	U2N474A	2068	UA741HM	007	UF-1A	1104	UPC4580D	038
TVSQB112	563	TVSUFSD-1	1104	TX141	2016	U2TA406	2068	UA741TC	007	UF1A	1104	UPC7805	1770
TVSQB115ZB	564	TVSUFSD-1F	1144	TX-145	1067	U2TA408	2068	UA1458BCT	038	UF-1V	1104	UPC7805H	1770
TVSQB115ZBV	564	TVSUFSD1F	1104	TXB3518MA	2023	U2TB406	2068	UA1458C	038	UF-2	1104	UPC7812H	1771
TVSRA1A	1122	TVSUPC378M12H2	1771	TXZ4206	2009	U2TB408	2068	UA1458CT	038	UF2	1104	UPC14305H	1770
TVSRA-1Z	1104	TVSUPC339C	1712	TY25A933	2023	U2TB408	2068	UA1458CT	038	UF4001	1101	UPC14312H	1771
TVSRA1Z	1104	TVSUPD4011BC	2411	TY25A933(5)	2023	U2TG406	2068	UA1488	2520	UF4002	1104	UPC14312H	1771
TVSRD4R7	565	TVSUPD4013BC	2413	TY25A933(5)	2023	U2TG408	2068	UA1488D	2520	UF4003	1102	UPC14315	1772
TVSRD4R7EB	565	TVSUPD4017BC	2417	TY25A1198E	2023	U15B	1114	UA1488DC	2520	UF4004	1103	UPC14315D	1772
TVSRD4R7EB2	565	TVSW04M	1173	TY25A1198E(25A1198	2023	U15C	1114	UA1488PC	2520	UF4005	1104	UPD4001BC	2401
TVSRD4-7EB2	565	TVSWF2	2035	(S)	2023	U15E	1114	UA1488PCQ	2521	UF4006	1114	UPD4001C	2401
TVS-RD5A	565	TVSWZ061	561	TY25A1198S	2023	U15G	1114	UA1489	2521	UF4007	1114	UPD4001C	2401
TVSRD5A	565	TVSZB	563	TY25C1652(Q)	2009	U15J	1114	UA1489APC	2521	UF-SD1	1123	UPD4011B	2411
TVSRD5AK	565	TVSZB1-6	561	TY25C1652Q	2009	U33H	1104	UA1489D	2521	UFS-1	1104	UPD4011B	2411
TVSRD5R1EB2	565	TVS-ZB1-11	563	TY25C1652Q(25C1652	2017	U117	2035	UA1489DC	2521	UFS-1A	1104	UPD4011BC	2411
TVSRD5R1JB3	565	TVS-ZB1-11	563	(R)	2009	U119	1114	UA1489PC	2521	UFS-1B	1114	UPD4011BCM	2411
TVSRD6-2EB	561	TVS-ZB1-15	564	TY25C1652R	2009	U120	1114	UA1489PCQ	2521	UFS-1F	1104	UPD4011C	2411
TVSRD6-2EB1	561	TVS-ZB1-15	564	TY25C1740	2009	U197	2035	UA2901PC	1712	UG-1003	1171	UPD4013BC	2413
TVSRD6-2EB1Z	561	TW3	1102	TY25C1740(25C1740(S))	2017	U212	1104	UA2902	1711	UG-1004	1173	UPD4013C	2413
TVSRD6-2EB3	561	TW5	1104		2009	U212-25	1104	UA3303PC	1711	UG1888	1122	UPD4013C	2413
TVSRD6-2FB2	561	TW10	1104	TY-107-4	1617	U213	1104	UA3403DC	1711	UGH7812	1771	UPD4017C	2417
TVSRD9AL	562	TW20	1104	TY-107-12	1617	U214	1104	UA4033PC	1711	ULN-2151M	007	UPD4017C	2417
TVSRD12EB1	563	TW35	1104	TZ4A326	1104	U215	2035	UA4558T	038	ULN-2159M	007	UPD4049	2449
TVSRD12EBH	563	TW4B	1104	TZ4C254	1104	U361	1114	UA4558T	038	ULN-2171M	007	UPD4049C	2449
TVSRD12EBH	562	TW50	1104	TZ4C284	1104	U421	1104	UA7508A	1770	ULN-2173M	007	UPD409UBC	2449
TVSRD13AL	563	TW60	1104	TZ4E254	1104	U460A	2016	UA7805A	1770	ULN-2177M	007	UPD7805	1770
TVSRD15EB2	564	TW-80	1114	TZ4-7	565	U460A,B	2016	UA7805C	1770	ULN-2179M	007	UPD7805	1770
TVSRD15FMZ	564	TW80	1104	TZ5-1	565	U460B	2016	UA7805CKC	1770	ULN-2709M	007	UPD7806	1617
TVSRD15FMZ	564	TW-100	1114	TZ6-2	561	U535A	2058	UA7805UC	1770	ULN-2723A	1740	UPD7806	1617
TVSRF1	1104	TW100	1114	TZ8-2	562	U535A,B	2016	UA7805UCV	1770	ULN-2730Z	703	UPD7806	1617
TVSRF-1A	1104	TWV	1102	TZ9	562	U535B	2058	UA7805UV	1770	ULS-2151M	007	UPD7806	1617
TVSRF1A	1104	TX1N645	1104	TZ9-1	562	U535C	1617	UA7812	1771	ULS-2156M	007	UPD7806	1617
TVSRGP10J	1184	TX1N647	1104	TZ9-1A	562	U535M	1617	UA7812C	1771	ULS-2159M	007	UPD7806	1617
TVSRH-1	1104	TX1N3190	1104	TZ9-1B	562	U1178	2035	UA7812CKC	1771	ULS-2171M	007	UPD7806	1617
TVSRH1	1104	TX1N3191	1104	TZ9-1C	562	U1181	2035	UA7812CU	1771	ULS-2173M	007	UPD7806	1617
TVSRH1M	1104	TX-100-1	2030	TZ9-1D	562	U1265	2035	UA7812UC	1771	ULS-2177M	007	UPD7806	1617
TVSRH1S	1104	TX100-1	1617	TZ12	563	U1323	2035	UA7812UV	1771	ULS-2723A	1740	UPD7806	1617
TVSRH1SV	1104	TX-100-2	2030	TZ12A	563	U1324	2035	UA7815	1772	ULX3701Z	703	UPD7806	1617
TVSRM1	1104	TX100-2	1617	TZ12B	563	U1420	2035	UA7815C	1772	UOSE	1114	UPD7806	1617
TVSRM1Z	1104	TX100-3	1617	TZ12C	563	U1421	2035	UA7815CKC	1772	UOSES	1114	UPD7806	1617
TVSRM1Z(RM1Z)	1104	TX100-4	2030	TZ15	564	U1422	2035	UA7815UC	1772	UOSG	1104	UPD7806	1617
TVSRM1ZM	1104	TX-101-8	2030	TZ15A	564	U1585E	1617	UBFY11	2016	UP1706A	2016	UPD7806	1617
TVSRM1ZM(RM1Z)	1104	TX-101-9	2030	TZ15B	564	U1585F	1617	UC20	2035	UP1706B	2016	UPD7806	1617
TVSRM1ZMV	1104	TX101-9	2030	TZ15C	564	U1585F,H	2016	UC78M12H2	1771	UP12217	2017	UPD7806	1617
TVSRM2C	1114	TX-101-12	1617	TZ81	2018	U1585G	1617	UC100	2035	UP12218	2017	UPD7806	1617
TVSRM10	1104	TX101-12	1617	TZ82	2016	U1585H	1617	UC105	2035	UP12222	2009	UPD7806	1617
TVSRM10B	1114	TX-102-1	2009	TZ543	2023	U1715	2035						
TVSRM10M													

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	
UR210	1143	UT2005	1141	V07J	1114	V721	2023	VHS354M/LB1E	1020	VS25A562-Q/1E	2023	VS25C784R1F	2058	
UR215	1143	UT2010	1143	V08E	1114	V761	2023	VHS354M/LB1E	1020	(,25A562)Q	2023	VS25C900U-1	2016	
UR220	1143	UT2020	1143	V08G	1114	V763	2023	(,354M/LB1E	1020	VS25A562-Y/1E	2023	VS25C945AP-1	2009	
UR225	1144	UT2040	1144	V08J	1114	V1112	1122	VHS354M/LB1E	1020	VS25A562TO-1	2023	VS25C945AQ/-1	2009	
US1020	1122	UT3005	1141	V09-E(CENT.)	1101	V1650E-1	2035	(,354M/LB1E	1020	VS25A562T-O/1E	2023	VS25C945LK-1	2009	
US1020M	1122	UT3010	1143	V09-G	1104	V1650E-4	2035	VHS354M/LB1E	1020	VS25A562T-Q/1E	2023	VS25C945LP-1	2009	
US1040	1122	UT3020	1143	V09E	1104	V1833E	2035	VHS326	1122	VS25A673-B/1E	2023	VS25C1166-O-1	2009	
US1040M	1122	UT3040	1144	V09ETA	1104	V3074A20	1104	VHSCR3AMZ8L81	1020	VS25A673-C/1A	2023	VS25C1166Y-1	2009	
US1060	1122	UZ1-4.7	565	V09E-Z	1104	V3074A21	1104	VHSCR3AMZ8L81	1020	VS25A673-C/1E	2023	VS25C1172-1E	2055	
US1060M	1122	UZ1-5.1	565	V09G	1104	V9446-4	1104	VHSCR3AMZ8L81	1020	VS25A673-C/1E(,25A673	2023	VS25C1174-1E	2055	
US1090	1122	UZ1-6.2	561	V09G-F2	1104	V9446-4	1104	VHSCR3AMZ8L81	1020	(C)	2023	VS25C1213-C/1A	2009	
US1090M	1122	UZ1-9.1	562	V09G-TA	1104	V10158	1104	(,CR3AMZ)	1020	VS25A673-C/1E	2023	VS25C1213AC/1A	2009	
US7051A	565	UZ1-11.5	563	V0G	1104	V10916-1	1123	VHSCR3AMZ8L81	1020	(,25A673A(C	2023	VS25C1213ACTA	2009	
US7091	562	UZ1-12	563	V11-CA	1114	V-10916-3	1123	(,CR3AMZ-B)	1020	VS25A673A-B/1E	2023	VS25C1335D/-1	2016	
US7120B	563	UZ1-15	564	V11N	1104	V10916-3	1123	VHSCR3AMZ8L81	1020	VS25A673A-C/1E	2023	VS25C1335D/1	2016	
US7150	564	UZ4.7	565	V15C200/80-V&	1104	V11189-1	1104	VHS56142GLB1E	1020	VS25A733AQ/-1	2023	VS25C1335D/-1	2016	
US7400A	1801	UZ5.1	565	V15C200/80-VF	1104	V15920	1104	VHS56340G	1020	VS25A844-D/-1	2023	(,25C1335D)E	2016	
US7400J	1801	UZ5.1B	565	V17L	1104	V27001	1104	VHS56340G//1E	1020	VS25A844-D/-2	2023	VS25C1335D/-1E	2016	
US7401A	1801	UZ6.2	561	V19	1104	V50260-10	1122	VHS56340GLB1E	1020	VS25A854-Q/1E	2023	VS25C1627A	2030	
US7401J	1801	UZ-6.2B	561	V19B	1104	V50260-16	1123	VHS56340GLB1E	1020	VS25A854-Q/1E(,25A854	2023	VS25C1627Y	2030	
US7404A	1802	UZ6.2B	561	V19C	1104	V50260-36	1122	(,56340G)	1020	(Q)	2023	VS25C1674L/-1	2016	
US7404J	1802	UZ9B	562	V19CS	1104	VAMV-1	1104	VHS56344GLB1E	1020	VS25A854-Q/1E	2023	VS25C1675M-1	2009	
US7408A	1822	UZ9.1	562	V19CSS	1104	VAR	1122	VHS5FOR1A411E	1067	(,25A854Q)	2023	VS25C1681G/1E	2016	
US7408J	1822	UZ9.1B	562	V19C-T52	1104	VAR-1R2	1122	VHS5FOR1A411E	1067	VS25A950-Y/1E	2023	VS25C1741-1	2009	
US7447A	1805	UZ-12B	563	V19E	1104	VARIST-5	1104	VM30209	1617	VS25A1015/1E	2023	VS25C1815GW-1	2009	
US7490A	1808	UZ12B	563	V19E-T52	1104	VB-11	1104	VM30241	1617	VS25A1015G/1E	2023	VS25C1815GW-1	2009	
US7490J	1808	UZ-12B(AU)	563	V19E-Z	1104	VB100	1104	VM30242	1617	VS25A1015Y/1E	2023	(,25C1815)G	2009	
USAF515ES045M	2023	UZ13B	563	V30J	1114	VB300	1104	VM-PH9D522/1	1104	VS25A1015Y/1E	2023	VS25C1815GW-1	2009	
USAF515ES046M	2023	UZ15	564	V30N	1104	VB400	1104	VM-PH11D522/1	1104	(,25A1015Y)	2023	(,25C1815)Y	2009	
USAF516ES047M	2023	UZ91F	562	V50A260-36	1123	VB500	1104	VMPH11D522-1	1104	VS25A1015Y/1E	2023	VS25C1815OW-1	2009	
USAF516ES048M	2023	UZ3019	562	V50A260-36(GE-DIO)	1123	VB600	1104	VM-PH9D522/1	1104	(,25A1015)	2023	VS25C1815YW-1	2009	
USN-749CA	1808	UZ3019A	562	V50A260-36(SI-DIO)	1123	VB600A	1104	VM-TC02P11/2	1104	VS25A1015Y/2E	2023	VS25C1815YW-1	2009	
UT-905	1101	UZ3019B	562	V50A260-36(SI-DIO)	1123	VBH600	1104	VM-TC0.2P11/2	1104	VS25A1015YW-1	2023	(,25C1815)G	2009	
UT-910	1104	UZ3022	563	V74	1123	VC6E	1104	VO1G	1101	VS-25C206	2016	VS25C1815YW-1	2009	
UT-920	1102	UZ3022A	563	V115	1123	VCP200	1308	VO3-G	1114	VS25C206	1617	(,25C1815)Y	2009	
UT-940	1103	UZ3022B	563	V117	1123	VCRS0037	1122 N7	VO3C	1143	VS-25C208	2016	VS25C1815YW1E	2009	
UT11	1104	UZ3024	564	V118	1123	VCRS0038	1122 N9	VO3G	1114	VS-25C208	2016	VS25C1826-Y1A	2020	
UT12	1143	UZ3024A	564	V119	2016	VDTE1///-1	1104	VO6-C	1104	VS25C208	1617	VS25C1827Y/1E	2020	
UT13	1143	UZ3024B	564	V120	1617	VD6	1104	VO6-G	1104	VS25C288A	1617	VS25C1855/-1	2058	
UT14	1104	UZ8709	562	V120PH	2016	VD10E1///-1	1104	VO-6A	1104	VS-25C324	1617	VS25C1906/1E	2016	
UT15	1104	UZ8712	563	V120RH	2030	VD10E1LF	1104	VO6A	1144	VS-25C324H	1617	VS25C1959Y/1E	2009	
UT16	1104	UZ8715	564	V126	564	VD10E11F	1104	VO6A	1144	VS25C324H	1617	VS25C2001-M-1	2009	
UT17	1104	UZ8809	562	V129	2016	VD11	1123	VO-6C	1104	VS-25C371-R-1	2009	VS25C2002-K/A	2009	
UT18	1104	UZ8812	563	V130LA10	570	VD12	1123	VO6C	1104	VS25C371-R-1	2009	VS25C2002-K1A	2009	
UT21	1104	UZ8814	562	V130LA10A	570	VD13	1123	VO6C-401	1144	VS25C372-O/1E	2009	VS25C2002-K1A	2009	
UT22	1104	UZ8815	564	V130LA20	568	VD1150M	1122	VO6E	1104	VS25C372-Y/1E	2009	(,25C2002)K	2009	
UT23	1104	UZ1-4.7	565	V130LA20A	568	VD-121C	1104	VO9-E	1144	VS25C373//1E	2016	VS25C2002-K1A	2009	
UT24	1104	UZ1-5.1	565	V135	1123	VD121C	1104	VO9C	1104	VS25C373-//1E	2009	(,25C2002)L	2009	
UT25	1104	UZ1-6.2	561	V139	2030	VD-1122	1104	VO9G	1104	VS25C373-G/-1	2009	VS25C2002-K1A	2009	
UT26	1104	UZ1-9.1	562	V143	2016	VD-1123	1122	VOG	1104	VS25C373G-1	2009	(,25C2002B)	2009	
UT27	1104	UZ1-12	563	V146	2030	VE08	1173	VP130A20	570	VS25C374-B-1	2016	VS25C2002-K1A	2009	
UT111	1104	UZ1-15	564	V152	2023	VE18	1173	VR1B	1104	VS25C383-W/1E	2009	(,25C2002K)	2009	
UT112	1104	UZ1-115	563	V154	2030	VE27	1173	VR1D	1104	VS25C394-O-1	2058	VS25C2120Y/A	2009	
UT113	1104	UZP-12B	563	V159	2035	VE28	1173	VR1G	1104	VS25C394-O-1	2009	VS25C2458-C/1E	2009	
UT114	1104	VO-3C	1114	V160	563	VE47	1173	VR1J	1104	VS25C394-Y-1	2009	VS25C3299Y/-1	2020	
UT115	1104	VO-6B	1104	V162	2023	VE48	1173	VR6.2	561	VS25C454-B/1E	2009	VS25C3299Y/1E	2020	
UT116	1104	VO-6C	1104	V166	2030	VFA2745C	1104	VR6.2A	561	VS25C454-B/1E(,25C454	2009	VS25C1674Z/-1	2058	
UT117	1104	VO-6C-401	1104	V169	1617	VHD1N34///-1	1123	VR6.2B	561	(B)	2009	VS25D467-C/-1	2009	
UT118	1114	VO-9C	1114	V172	2030	VHD1N34A//1-1	1123	VR9B	562	VS25C454-C/1A	2009	VS25D476-C/-1	2020	
UT120	1114	VO1C	1143	V177	2030	VHD1N34A//1-1	1123	VR9.1	562	VS25C454-C/1E	2009	VS25D478-YL-ZE	2020	
UT211	1144	VO1E	1144	V183	2035	VHD1N34A//1E	1123	VR9.1	562	(,25C454-C/1E(,25C454	2009	VS25D478YL2E	2020	
UT212	1144	VO1G	1114	V188	565	VHD1N34A//1-1	1123	VR9.1A	562	(C)	2009	VS25D2271-1	1617	
UT213	1144	VO3-C	1114	V191	1114	VHD1N60///-1	1123	VR9.1B	562	VS25C454-C/1E	2009	VS25K49F-1	2035	
UT221	1104	VO3C	1114	V-210C	1123	VHD1S34///-1	1123	VR11	563	(,25C454C)	2009	VS120	1104	
UT222	1104	VO3E	1114	V210C	1104	VHD1S1553//1-1	1122	VR12A	563	VS25C454-C/3A	2009	VS202	1104	
UT223	1104	VO3G	1114	V220	2016	VHD1S1555//1A	1122	VR12B	563	VS-25C458	2009	VS-C51255H	2030	
UT224	1104	VO3J	1114	V221	2016	VHD1S1555-R-1	1122	VR14	564	VS25C458	2009	VSC1255H	2030	
UT225	1104	VO5B	1114	V222	2016	VHD1S1834	1104	VR15	564	VS25C458-C/1E	2009	VS-C51255HF	2030	
UT226	1104	VO5E	1104	V270-D1	1104	VHD1S1834//1-1	1104	VR15A	564	VS25C460B-1	2009	VSC1256HG	2023	
UT228	1104	VO6	1104	V297	1617	VHD1S1885//1-1	1102	VR15B	564	VS-25C538	1617	VS-FR1	1104	
UT229	1104	VO6(DIO)	1104	V330	1141	VHD1S1885//1-1	1102	VR15	564	VS25C538	1617	VSFR1	1104	
UT231	1104	VO6(RECT)	1104	V331	1143	VHD1S1887//1-1	1103	VR15A	564	VS-25C563	2016	VS-FR1P	1104	
UT232	1104	VO6-C	1104	V331X	1104	VHD1S2076-//1-1	1122	VR15B	564	VS-25C645	2016	VSFR1P	1104	
UT233	1104	VO6-E	1114	V332	1143	VHD1S2076-1	1122	VS-0A70	1123	VS-25C645A	2016	VS-FR-1U	1104	
UT234	1143	VO6-G	1114	V334	1144	VHD1S2230/1E	1104	VS-1	1104	VS25C645A	1617	VS-FR-1N	1104	
UT235	1144	VO6A	1104	V350	1114	VHD1S5119H-1	1122	VS1	1104	VS-25C645B	2016	VSFT1N	1104	
UT236	1143	VO6B	1114	V405	2016	VHD1S5119H/1E	1122	VS25A495-O/1E	2023	VS-25C645C	2016	VSG-2002A	1104	
UT242	1143	VO6BX4	1104	V409	2020	VHD1S1885//1-1	1104	VS25A495-O/-1	2023	VS-25C683	2016	VSH200A	1104	
UT244	1144	VO6C	1102	V410	2023	VHD1S1555-R-1	1122	VS25A495-O/1E	2023	VS-25C683Y	2016	VSH202A	1122	
UT249	1143	VO6C(POWER-RECTIFIER)	V410A	2023	VHEXZ-090-1	562	VS25A495-Y/1E	2023	VS25A495-Y/1E	2023	VS-25C684	2016	VSH212A	1122
UT251	1143	V415	1104	V415	2016	VHF1S2076-1	1122	VS25A562-O/1E	2023	VS25C684	2016	VSH222A	1122	
UT252	1143	VO6C5	1104	V417	2016	VHINJM4558D-1	038	VS25A562-O/1E	2023	VS-25C687	2041	VSH242A	1122	
UT254	1144	VO6CS	1104	V435	2016	VHINJM4558D-1								

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V5K330	1114	W-005	1171	W9-065	561	WB-050	565	WC-088B	562	WD-092B	562	WE-150B	564
V5K340	1114	W005	1173	W9-088	562	WB-050A	565	WC-088C	562	WD-092C	562	WE-150C	564
V5-MA102	1104	W005L	1173	W9-090	562	WB-050B	565	WC-090	562	WD-092D	562	WE-150D	564
V5OA70	1123	W005M	1173	W9-092	562	WB-050C	565	WC-090A	562	WD-094	562	WE0704/130	2041
V5-PC02P11/2	1104	W0-6A	1122	W9-094	562	WB-050D	565	WC-090B	562	WD-094A	562	WEP50	2009
V5PH9D522/1	1104	W0-6B	1102	W9-115	563	WB-052	565	WC-090C	562	WD-094B	562	WEP52	2023
V5S6142GLB1E	1020	W0-61	561	W9-120	563	WB-052A	565	WC-090D	562	WD-094C	562	WEP55	2016
V5-SD1	1104	W01	1173	W9-150	564	WB-052B	565	WC-092	562	WD-094D	562	WEP56	2016
V5-SD1B	1114	W01L	1173	W10	1617	WB-052C	565	WC-092A	562	WD1	1123	WEP56/108	2016
V5SD1B	1104	W01M	1173	W14	2030	WB-052D	565	WC-092B	562	WD3	1123	WEP57	2023
V5-SD-1Z	1104	W02	1173	W16	2041	WB-061	561	WC-092C	562	WD4	1122	WEP58	1617
V5SD1Z	1104	W02L	1173	W18	2020	WB-061A	561	WC-092D	562	WD11	1101	WEP58/123	1617
V5-SD-13	1114	W02M	1173	W19	2027	WB-061B	561	WC-094	562	WD12	1101	WEP59	2030
V5-TC0-2P11/2	1104	W03A	1104	W20	1617	WB-061C	561	WC-094A	562	WD22	1101	WEP59/128	2030
V5-TC02P11/2	1104	W03B	1102	W21	2023	WB-061D	561	WC-094B	562	WD61	1104	WEP62	2023
V5TC02P11/2	1104	W03BTA	1104	W23	2016	WB-063	561	WC-094C	562	WD-115	563	WEP62/159	2023
V5-TC0-2P11/2	1101	W03C	1104	W24	1617	WB-063A	561	WC-094D	562	WD-115A	563	WEP63	2016
VX3375	2017	W04L	1173	W29	2016	WB-063B	561	WC-88D	562	WD-115B	563	WEP63/161	2016
VX3733	2020	W04M	1173	W103-254	1104	WB-063C	561	WC-115	563	WD-115C	563	WEP66	2016
VZ-050A	565	W06-A	1104	W106A1	1067	WB-063D	561	WC-115A	563	WD-115D	563	WEP66/199	2016
VZ-050B	565	W06-B	1104	W106B1	1067	WB-065	561	WC-115B	563	WD-120	563	WEP103	561
VZ-050C	565	W-06A	1104	W106C1	1020	WB-065A	561	WC-115C	563	WD-120A	563	WEP104	562
VZ-050D	565	W06A	1104	W106Y1	1067	WB-065B	561	WC-115D	563	WD-120B	563	WEP105	563
VZ-050E	565	W06A-Z	1104	W110	1173	WB-065C	561	WC-120	563	WD-120C	563	WEP134	1123
VZ-052A	565	W06B	1102	WA-050	565	WB-065D	561	WC120	1104	WD-120D	563	WEP134/109	1123
VZ-052B	565	W06C	1104	WA-050A	565	WB-088	562	WC-120A	563	WD-150	564	WEP138	1123
VZ-052C	565	W09A	1104	WA-050B	565	WB-088A	562	WC-120B	563	WD-150A	564	WEP152	1104
VZ-052D	565	W09B	1102	WA-050D	565	WB-088B	562	WC-120C	563	WD-150B	564	WEP152/552	1104
VZ-052E	565	W09C	1104	WA-052	565	WB-088C	562	WC-120D	563	WD-150C	564	WEP154	1101
VZ-061A	561	W1-050	565	WA-052A	565	WB-088D	562	WC-150	564	WD-150D	564	WEP155	1104
VZ-061B	561	W1-052	565	WA-052B	565	WB-090	562	WC-150A	564	WD1012	1123	WEP156	1102
VZ-061C	561	W1-061	561	WA-052C	565	WB-090A	562	WC-150B	564	WE-050	565	WEP157	1103
VZ-061D	561	W1-063	561	WA-052D	565	WB-090B	562	WC-150C	564	WE-050A	565	WEP158	1104
VZ-061E	561	W1-065	561	WA-061	561	WB-090C	562	WC-150D	564	WE-050B	565	WEP158/116	1104
VZ-063A	561	W1-088	562	WA-061A	561	WB-090D	562	WC14020	1104	WE-050C	565	WEP158A	1114
VZ-063B	561	W1-090	562	WA-061B	561	WB-092	562	WC14027	1104	WE-050D	565	WEP159	1114
VZ-063C	561	W1-092	562	WA-061C	561	WB-092A	562	WC19865	1104	WE-052	565	WEP160	1114
VZ-063D	561	W1-094	562	WA-063	561	WB-092B	562	WD001	1102	WE-052A	565	WEP164	1101
VZ-063E	561	W1-115	563	WA-063A	561	WB-092C	562	WD002	1102	WE-052B	565	WEP164/114	1101
VZ-085A	562	W1-120	563	WA-063B	561	WB-092D	562	WD003	1104	WE-052C	565	WEP165A	1101
VZ-085B	562	W1-150	564	WA-063C	561	WB-094	562	WD004	1102	WE-052D	565	WEP166	1101
VZ-085C	562	W1A	2035	WA-063D	561	WB-094A	562	WD005	1102	WE-061A	561	WEP166/115	1101
VZ-085D	562	W1L	1067	WA-065	561	WB-094B	562	WD006	1102	WE-061B	561	WEP167	1104 N5
VZ-085E	562	W1P	2035	WA-065A	561	WB-094C	562	WD007	1102	WE-061C	561	WEP168	1101
VZ-090A	562	W1R	1122	WA-065B	561	WB-094D	562	WD008	1102	WE-061D	561	WEP168/120	1101
VZ-090B	562	W1R(5CR)	1067	WA-065C	561	WB-115	563	WD009	1102	WE-063	561	WEP169	1104 N7
VZ-090C	562	W2-050	565	WA-065D	561	WB-115A	563	WD010	1102	WE-063A	561	WEP170	1114
VZ-090D	562	W2-061	561	WA-088	562	WB-115B	563	WD011	1102	WE-063B	561	WEP170/125	1114
VZ-090E	562	W2-063	561	WA-088A	562	WB-115C	563	WD012	1102	WE-063C	561	WEP173	1104
VZ-092A	562	W2-065	561	WA-088B	562	WB-115D	563	WD013	1103	WE-063D	561	WEP175	1104
VZ-092B	562	W2-088	562	WA-088C	562	WB-120	563	WD014	1104	WE-065	561	WEP177	1122
VZ-092C	562	W2-090	562	WA-088D	562	WB-120A	563	WD015	1103	WE-065A	561	WEP243	2030
VZ-092D	562	W2-092	562	WA-090	562	WB-120B	563	WD-050	565	WE-065B	561	WEP261/61	2068
VZ-092E	562	W2-094	562	WA-090A	562	WB-120C	563	WD-050A	565	WE-065C	561	WEP371	2009
VZ-094A	562	W2-115	563	WA-090B	562	WB-120D	563	WD-050C	565	WE-065D	561	WEP372	2009
VZ-094B	562	W2-150	564	WA-090C	562	WB-150	564	WD-052	565	WE-088	562	WEP373	2009
VZ-094C	562	W3D	1000	WA-090D	562	WB-150A	564	WD-052A	565	WE-088A	562	WEP380	2009
VZ-094D	562	W4-050	565	WA-092	562	WB-150B	564	WD-052B	565	WE-088B	562	WEP394	2009
VZ-094E	562	W4-052	565	WA-092A	562	WB-150C	564	WD-052C	565	WE-088C	562	WEP403	2009
VZ47CH	565	W4-061	2016	WA-092B	562	WB-150D	564	WD-052D	565	WE-088D	562	WEP454	2009
VZ51CH	565	W4-063	561	WA-092C	562	WC-050	565	WD-061	561	WE-090	562	WEP458	2009
VZ62CH	561	W4-065	561	WA-092D	562	WC-050A	565	WD-061A	561	WE-090A	562	WEP460	2009
VZ91CH	562	W4-088	562	WA-094	562	WC-050B	565	WD-061B	561	WE-090B	562	WEP495	2023
VZ-115A	563	W4-090	562	WA-094A	562	WC-050C	565	WD-061C	561	WE-090C	562	WEP535	2016
VZ-115B	563	W4-092	562	WA-094B	562	WC-050D	565	WD-061D	561	WE-090D	562	WEP535/107	2016
VZ-115C	563	W4-094	562	WA-094C	562	WC-052	565	WD-063	561	WE-092	562	WEP536	2009
VZ-115D	563	W4-115	563	WA-094D	562	WC-052A	565	WD-063A	561	WE-092A	562	WEP537	2009
VZ-115E	563	W6-120	563	WA-098	562	WC-052B	565	WD-063B	561	WE-092B	562	WEP538	1617
VZ-120A	563	W6-150	564	WA-098A	562	WC-052C	565	WD-063C	561	WE-092C	562	WEP564	2023
VZ-120B	563	W7-120	563	WA0A-90	1122	WC-052D	565	WD-063D	561	WE-092D	562	WEP568	2016
VZ-120C	563	W7-150	564	WA-26	1122	WC-061	561	WD-065	561	WE-094	562	WEP602	565
VZ120CH	563	W8	2016	WA-115	563	WC-061A	561	WD-065A	561	WE-094A	562	WEP604	563
VZ-120D	563	W8-050	565	WA-115A	563	WC-061B	561	WD-065B	561	WE-094B	562	WEP607	564
VZ-120E	563	W8-052	565	WA-115B	563	WC-061C	561	WD-065C	561	WE-094C	562	WEP633	2009
VZ-145A	564	W8-061	561	WA-115C	563	WC-061D	561	WD-065D	561	WE-094D	562	WEP634	2009
VZ-145B	564	W8-063	561	WA-115D	563	WC-063	561	WD-088	562	WE-115	563	WEP644	2016
VZ-145C	564	W8-065	561	WA-120	563	WC-063A	561	WD-088A	562	WE-115A	563	WEP704	2041
VZ-145D	564	W8-088	562	WA-120A	563	WC-063B	561	WD-088B	562	WE-115B	563	WEP704/130	2041
VZ-145E	564	W8-090	562	WA-120B	563	WC-063C	561	WD-088C	562	WE-115C	563	WEP705	1617
VZ-150A	564	W8-092	562	WA-120C	563	WC-063D	561	WD-088D	562	WE-115D	563	WEP706	1617
VZ-150B	564	W8-094	562	WA-120D	563	WC-065	561	WD-090	562	WE-120	563	WEP708	2058
VZ-150C	564	W8-115	563	WA-150	564	WC-065A	561	WD-090A	562	WE-120A	563	WEP709	2058
VZ150CH	564	W8-120	563	WA-150A	564	WC-065B	561	WD-090B	562	WE-120B	563	WEP710	2009
VZ-150D	564	W8-150	564	WA-150B	564	WC-065C	561	WD-090C	562	WE-120C	563	WEP716	2023
VZ-150E	564	W9-050	565	WA-150C	564	WC-065D	561	WD-090D	562	WE-120D	563	WEP717	2023
W/6A	1104	W9-061	561	WA-150D	564	WC-088	562	WD-092	564	WE-150	564	WEP719	2058
W0005M	1173	W9-063	561	WA-161D	561	WC-088A	562	WD-092A	562	WE-150A	564	WEP720	2058

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
WEP733	1417	WEP1114/145	564	WF-050A	565	WG-065C	561	WH-094C	562	WJ-052D	565	WK-092A	562
WEP734	1417	WEP1153	561	WF-0508	565	WG-065D	561	WH-094D	562	WJ-061	561	WK-092B	562
WEP735	1417	WEP1152/5070	561	WF-050C	565	WG-088	562	WH-115	563	WJ-061A	561	WK-092C	562
WEP739	1417	WEP1154	561	WF-050D	565	WG-088A	562	WH-115A	563	WJ-061B	561	WK-092D	562
WEP755	1417	WEP1154/137	561	WF-052	565	WG-0888	562	WH-115B	563	WJ-061C	561	WK-094	562
WEP735A	2009	WEP1155	562	WF-052A	565	WG-088C	562	WH-115C	563	WJ-061D	561	WK-094A	562
WEP736	2009	WEP1155/5073	562	WF-052B	565	WG-088D	562	WH-115D	563	WJ-063	561	WK-094B	562
WEP736/123A	1417	WEP1157	563	WF-052C	565	WG-090	562	WH-120	563	WJ-063A	561	WK-094C	562
WEP740A	2055	WEP1157/141	563	WF-052D	565	WG-090A	562	WH-120A	563	WJ-063B	561	WK-094D	562
WEP740A/164	2055	WEP1409	565	WF-061	564	WG-090B	562	WH-120B	563	WJ-063C	561	WK-115	563
WEP740B	2055	WEP1409/5009	565	WF-061A	564	WG-090C	562	WH-120C	563	WJ-063D	561	WK-115A	563
WEP740B/165	2055	WEP1411	565	WF-061B	564	WG-090D	562	WH-120D	563	WJ-063E	561	WK-115B	563
WEP743	2020	WEP1411/5010	565	WF-061C	564	WG-092	562	WH-150	564	WJ-065A	561	WK-115C	563
WEP745/152	2020	WEP1414	561	WF-061D	564	WG-092A	562	WH-150A	564	WJ-065B	561	WK-115D	563
WEP746	2027	WEP114/3013	561	WF-063	564	WG-092B	562	WH-150B	564	WJ-065C	561	WK-120	563
WEP746/153	2027	WEP1418	562	WF-063A	564	WG-092C	562	WH-150C	564	WJ-065D	561	WK-120A	563
WEP751	2017	WEP1418/5017	562	WF-063B	564	WG-092D	562	WH-150D	564	WJ-088	562	WK-120B	563
WEP751/186	2017	WEP1419	562	WF-063C	564	WG-094	562	WH1012	1122	WJ-088A	562	WK-120C	563
WEP756	2020	WEP1419/5018	562	WF-063D	564	WG-094A	562	WI-050	565	WJ-088B	562	WK-120D	563
WEP756/196	2020	WEP1423	563	WF-065	564	WG-094B	562	WI-050A	565	WJ-088C	562	WK-150	564
WEP760	2043	WEP1423/5021	563	WF-065A	564	WG-094C	562	WI-050B	565	WJ-088D	562	WK-150A	564
WEP760/219	2043	WEP1426	564	WF-065B	564	WG-094D	562	WI-050C	565	WJ-090	562	WK-150B	564
WEP764	2055	WEP1426/5024	564	WF-065C	564	WG0A-90	1122	WI-050D	565	WJ-090A	562	WK-150C	564
WEP764/238	2055	WEP1717	2016	WF-065D	564	WG-10A5	1122	WI-052	565	WJ-090B	562	WK-150D	564
WEP765	2043	WEP1945	2009	WF-088	562	WG91	562	WI-052A	565	WJ-090C	562	WK-150E	564
WEP765/281	2043	WEP2053	038	WF-088A	562	WG-115	563	WI-052B	565	WJ-090D	561	WL-51	1173
WEP772	2058	WEP2053/778	038	WF-088B	562	WG-115A	563	WI-052C	565	WJ-092	562	WL01F	1173
WEP773	2009	WEP2119	1723	WF-088C	562	WG-115B	563	WI-052D	565	WJ-092A	562	WL02F	1173
WEP780	202C	WEP2119/955M	1723	WF-088D	562	WG-115C	563	WI-061	561	WJ-092B	562	WL02M	1173
WEP780/291	202C	WEP2150	703	WF-090	562	WG-115D	563	WI-061A	561	WJ-092C	562	WL04F	1173
WEP784	2058	WEP2150/1232	703	WF-090A	562	WG-120	563	WI-061B	561	WJ-092D	562	WL04M	1173
WEP802	2035	WEP2272	2401	WF-090B	562	WG-120A	563	WI-061C	561	WJ-094	562	WL05H	565
WEP802/132	2035	WEP2272/4001B	2401	WF-090C	562	WG-120B	563	WI-061D	561	WJ-094A	562	WL05M	565
WEP816	2096	WEP2331	1740	WF-090D	562	WG-120C	563	WI-063	561	WJ-094B	562	WL05N	565
WEP822	2005	WEP2331/923D	1740	WF-092	562	WG-120D	563	WI-063A	561	WJ-094C	562	WL05P	565
WEP836	2005	WEP3023	2020	WF-092A	562	WG-150	564	WI-063B	561	WJ-094D	562	WL05Q	565
WEP881	2026	WEP4000	1141	WF-092B	562	WG-150A	564	WI-063C	561	WJ-115	563	WL-052	565
WEP906	2005	WEP4000/5800	1141	WF-092C	562	WG-150B	564	WI-063D	561	WJ-115A	563	WL-052A	565
WEP906/233	2005	WEP4001	1143	WF-092D	562	WG-150C	564	WI-065	561	WJ-115B	563	WL-052B	565
WEP907	2022	WEP4001/5801	1143	WF-094	562	WG-150D	564	WI-065A	561	WJ-115C	562	WL-052C	565
WEP907/234	2022	WEP4002	1143	WF-094A	562	WG-599	1122	WI-065B	561	WJ-115D	563	WL-052D	565
WEP908	2024	WEP4002/5802	1143	WF-094B	562	WG-713	1122	WI-065C	561	WJ-120	562	WL-061	561
WEP908/241	2024	WEP4004	1144	WF-094C	562	WG713	1122	WI-065D	561	WJ-120A	562	WL-061A	561
WEP910	2009	WEP4004/5804	1144	WF-094D	562	WG-713C	1122	WI-088	562	WJ-120B	562	WL-061B	561
WEP910/289	2009	WEP4008/5809	1114	WF1	2035	WG714	1122	WI-088A	562	WJ-120C	562	WL-061C	561
WEP911	2023	WEP4011B	2411	WF2	2035	WG1010	1122	WI-088B	562	WJ-120D	562	WL-061D	561
WEP911/290	2023	WEP4011B/4011B	2411	WF-100B	563	WG-1010A	1122	WI-088C	562	WJ-150	564	WL-063	561
WEP911/290A	2023	WEP4013B	2413	WF-100C	563	WG1010A	1122	WI-088D	562	WJ-150A	564	WL-063A	561
WEP920	2035	WEP4013B/4013B	2413	WF-100D	563	WG1010B	1122	WI-090	562	WJ-150B	564	WL-063B	561
WEP920/312	2035	WEP5457	1020	WF-115	563	WG-1012	1122	WI-090A	562	WJ-150C	564	WL-063C	561
WEP924	2009	WEP5457/5457	1020	WF-115A	563	WG1012	1122	WI-090B	562	WJ-150D	564	WL-063D	561
WEP924/318	2009	WEP6497	1080	WF-115B	563	WG1014A	1122	WI-090C	562	WJ-150E	565	WL-063E	561
WEP925	1122	WEP6497/5633	1000	WF-115C	563	WG1021	1122	WI-090D	562	WK-050A	565	WL-065A	561
WEP925/519	1122	WEP6498	1067	WF-115D	563	WG0A-90	1122	WI-092	565	WK-050B	565	WL-065B	561
WEP926	007	WEP6240/5452	1067	WF-120	563	WH-061	561	WI-092A	562	WK-050C	565	WL-065C	561
WEP931/414M	007	WEP6242	1067	WF-120A	563	WH-061A	561	WI-092B	562	WK-050D	565	WL-065D	561
WEP949	705	WEP6242/5454	1067	WF-120B	563	WH-061B	561	WI-092C	562	WK-052	562	WL-088	562
WEP949/1155	705	WEP6243	1067	WF-120C	563	WH-061C	561	WI-092D	562	WK-052A	565	WL-088A	562
WEP950	2417	WEP6243/5455	1067	WF-120D	563	WH-061D	561	WI-094	562	WK-052B	565	WL-088B	562
WEP950/4017	2417	WEP6244	1020	WF-150	564	WH-063	561	WI-094A	562	WK-052C	565	WL-088C	562
WEP953	1114	WEP6244/5456	1020	WF-150A	564	WH-063A	561	WI-094B	562	WK-052D	565	WL-088D	562
WEP954	1114	WEP6304	1101	WF-150B	564	WH-063B	561	WI-094C	562	WK-061	561	WL-090	562
WEP954	2058	WEP6304/507	1101	WF-150C	564	WH-063C	561	WI-094D	562	WK-061A	561	WL-090A	562
WEP966/966	1171	WEP6322	1067	WF-150D	564	WH-063D	561	WI-115	563	WK-061B	561	WL-090B	562
WEP1050	1171	WEP6321/5408	1067	WF-260	562	WH-065	561	WI-115A	563	WK-061C	561	WL-090C	562
WEP1051	1171	WEP6321	1067	WG-050A	565	WH-065A	561	WI-115B	563	WK-061D	561	WL-090D	562
WEP1051/166	1171	WEP6322/5402	1067	WG-050B	565	WH-065B	561	WI-115C	563	WK-063	561	WL-092	562
WEP1053	1173	WEP6322/5402	1067	WG-050C	565	WH-065C	561	WI-115D	563	WK-063A	561	WL-092A	562
WEP1053/168	1173	WEP6323	1067	WG-052	565	WH-088	562	WI-120	563	WK-063B	561	WL-092B	562
WEP1040	1122	WEP6323/5403	1067	WG-052A	565	WH-088A	562	WI-120A	563	WK-063C	561	WL-092C	562
WEP1041	1122	WEP6324	1067	WG-052B	565	WH-088B	562	WI-120B	563	WK-063D	561	WL-092D	562
WEP1041/178MP	1122	WEP6324/5404	1067	WG-052C	565	WH-088C	562	WI-120C	563	WK-065	561	WL-094	562
WEP1042	1122	WEP7406	1801	WG-052D	565	WH-088D	562	WI-120D	563	WK-065A	561	WL-094A	562
WEP1042/177	1122	WEP7406/7400	1801	WG-061	561	WH-090	562	WI-150	564	WK-065B	561	WL-094B	562
WEP1043	1114	WEP7407	1001	WG-061A	561	WH-090A	562	WI-150A	564	WK-065C	561	WL-094C	562
WEP1082	1164	WEP7401/7401	1801	WG-061B	561	WH-090B	562	WI-150B	564	WK-065D	561	WL-094D	562
WEP1083	1164	WEP7408	1822	WG-061C	561	WH-090C	562	WI-150C	564	WK-088	562	WL-115	563
WEP1102	565	WEP7408/7408	1822	WG-061D	561	WH-090D	562	WI-150D	564	WK-088A	562	WL-115A	563
WEP1102/5069	565	WEP7490	1808	WG-063	561	WH-092	562	WI-050	565	WK-088B	562	WL-115B	563
WEP1103	565	WEP7490/7490	1808	WG-063A	561	WH-092A	562	WI-050A	565	WK-088C	562	WL-115C	563
WEP1103/115	565	WEP7490-1	1114	WG-063B	561	WH-092B	562	WI-050B	565	WK-088D	562	WL-115D	563
WEP1109	542	WEP7491	1101	WG-063C	561	WH-092C	562	WI-050C	565	WK-090	562	WL-120	563
WEP1109/139	542	WEP7492	1104 N5	WG-063D	561	WH-092D	562	WI-050D	565	WK-090A	562	WL-120A	563
WEP1112	542	WEP7493	1101	WG-065	561	WH-094	562	WI-052A	565	WK-090B	562	WL-120B	563
WEP1112/142	542	WEP7494	1104 N7	WG-065A	561	WH-094A	562	WI-052B	565	WK-090C	562	WL-120C	563
WEP1114	542	WEP7495	563	WG-065B	561</								

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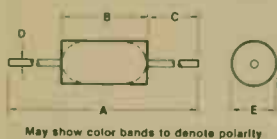
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WO-6A	1104	WZ920	564	X302181502	2009	X522	1101	Y133101440	1104	Z1A4.7	565	Z12C	563
WO-6B	1102	X0069CE	2401	X302181502(,25C1815Y)	2009	X522(RECT.)	1104	YAAD004	1104	Z1B4.7	565	Z12K	563
WO6C	1104	X0100AA	1067		2009	X523	1104	YAAD009	1123	Z1B5.1	565	Z12.0	563
WR-006	1141	X0100AB	1067	X302181509	2009	X523A	1104	YAAD010	1122	Z1B6.2	561	Z15	564
WR006	1104	X0100BA	1067	X302278500	2009	X530	2030	YAAD018	1122	Z1B9.1	562	Z15A	564
WR011	1171	X0100BB	1067	X302278530	2009	X531	1104	YAAD019	1104	Z1B12	563	Z15B	564
WR-013	1104	X0100CA	1020	X302278593	2009	X536	2016	YAAD020	1104	Z1B15	564	Z15C	564
WR013	1104	X0100CB	1020	X302278594	2009	X537	2016	YAAD022	1104	Z1C4.7	565	Z15K	564
WR-030	1141	X0100DA	1020	X303088000	2020	X538	2016	YAAN25C1096K	2017	Z1C5.1	565	Z15.0	564
WR030	1171	X0100DB	1020	X320010070	1122	X539	2016	YAAN25C1096L	2017	Z1C5.6	565	Z111Z	563
WR-040	1141	X0101BA	1067	X320010070(,152095)		X540	2016	YAAN25C1096N	2017	Z1C6.2	561	Z694	562
WR040	1171	X0101BB	1067		1122	X540A	1104	YAANZ251096	2017	Z1C9.1	562	Z714	562
WR1	1114	X0101BD	1067	X320010079	1122	XT15X3	2016	YBAD009	1104	Z1C12	563	Z801	561
WR2	1114	X0101DA	1020	X320010080	1122	XU604	1104	YC02P11/2	1114	Z1C15	564	Z-963B	563
WR100	1104	X0101DB	1020	X320010240	1104	XZ-049	565	YD1121	1122	Z1D4.7	565	Z-1004	565
WR200	1104	X0101DD	1020	X320010240(,155277B)		XZ049	565	YEAD015	562	Z1D5.1	565	Z1004	565
WR300	1104	X0102AA	1067		1104	XZ-051	565	YEAD025	562	Z1D6.2	561	Z-1014	563
WR400	1104	X0102AB	1067	X320010380	1104	XZ051	565	YEAD030	1104	Z1D9.1	562	Z1014	563
WRE981	1104	X0102BA	1067	X320010390	1122	XZ062	561	YEAD032	1123	Z1D12	563	Z-1016	564
WRR1952	1617	X0102BB	1067	X320010450	1104	XZ-070	561	YEADIN60P	1123	Z1D15	564	Z1016	564
WRR1953	1617	X0102CA	1020	X320010452	1122	XZ-086	562	YEADAW01-06	561	Z2A47F	565	Z-1102	565
WRR1954	1617	X0102CB	1020	X320010460	1122	XZ-090	562	YEAN25C941	2009	Z2A51F	565	Z1102	565
WRR1955	1144	X0102DA	1020	X320010470	1122	XZ090	562	YR-011	1104	Z2A62F	561	Z1102-C	565
WRR1956	1144	X0102DB	1020	X320010480	1122	XZ-092	562	YR011	1104	Z2A91F	562	Z-1106	561
WS100	1122	X0103BA	1067	X320010512	1104	XZ092	562	Y56-V139-2-2	1123	Z2A120F	563	Z-1112	563
WS200	1122	X0103BB	1067	X320010939	1122	XZ094	562	Y5G-20024	1104	Z2A150F	564	Z1112	563
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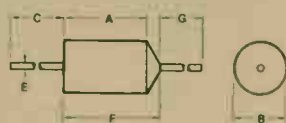
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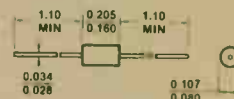
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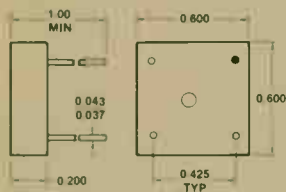
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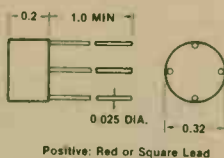
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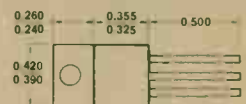
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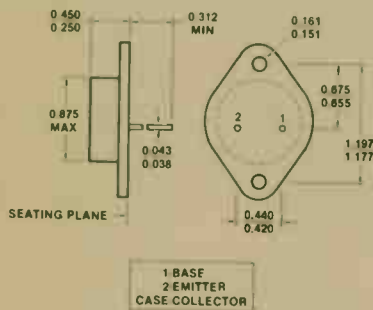


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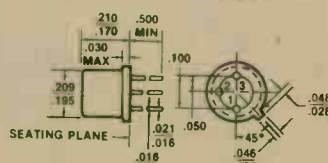


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2 ANODE	2 ANODE 2
3 GATE	3 GATE

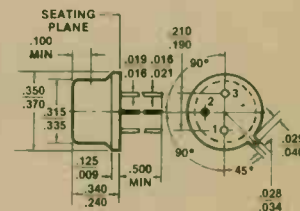
TO3



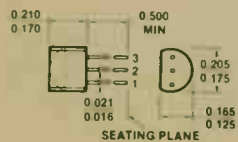
TO18



TO39

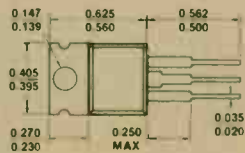


TO92



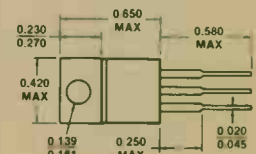
N CHANNEL FET	UNIUNJUNCTION	BIPOLAR
1 SOURCE	1 BASE 1	1-EMITTER
2 GATE	2 EMITTER	2-BASE
3 DRAIN	3 BASE 2	3 COLLECTOR

TO220

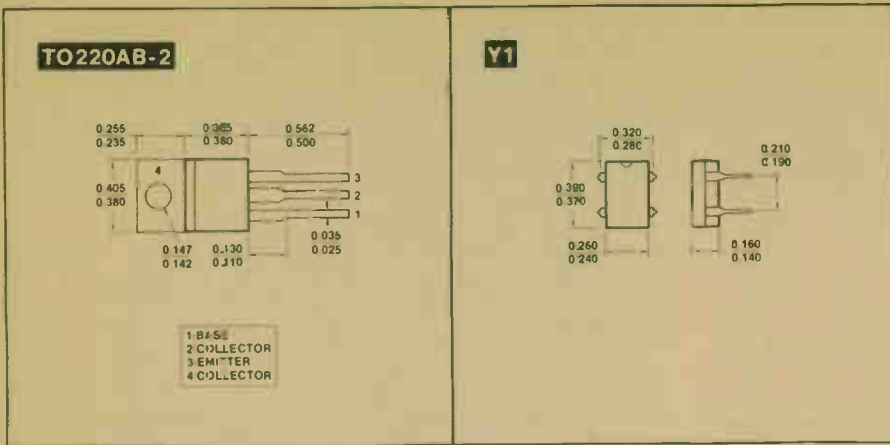


BIPOLAR	TRIAC
1-BASE	1 ANODE 1
2 COLLECTOR	2 ANODE 2
3-EMITTER	3-GATE

TO220AB





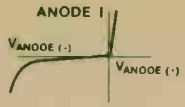

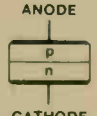

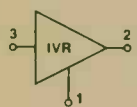
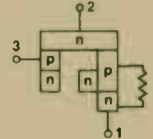
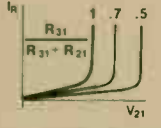

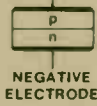



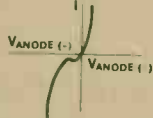



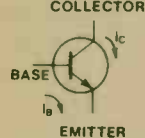
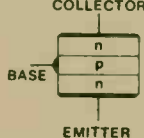
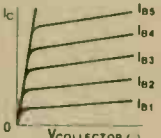

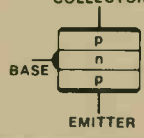
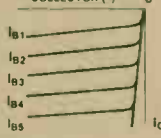
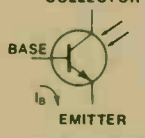
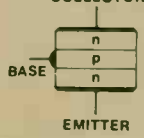


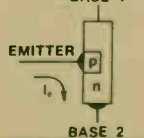
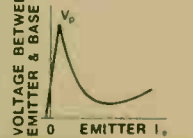
1-GATE
2 DRAIN
3 SOURCE



SEMICONDUCTOR CROSS-REFERENCE NOTES

- N1 Two required, connect in series—anode to anode.
- N2 Two required, connect in series—cathode to cathode.
- N3 Two required, connect in series—anode to cathode.
- N5 Four required, connect as in original circuit.
- N6 Five required, connect as in original circuit.
- N7 Six required, connect as in original circuit.
- N8 Seven required, connect as in original circuit.
- N9 Eight required, connect as in original circuit.

MAJOR SEMICONDUCTOR COMPONENTS

NAME OF DEVICE	CIRCUIT SYMBOL	COMMONLY USED JUNCTION SCHEMATIC	ELECTRICAL CHARACTERISTICS	MAX RATINGS AVAILABLE	MAJOR APPLICATIONS	ROUGHLY ANALOGOUS TO:
Diode or Rectifier			 ANODE (+) CATHODE (-)	1500 Amps 3000 Volts	Rectification Blocking Detecting Steering	Check valve Diode tube Gas diode
Avalanche (Zener) Diode			 ANODE (+) CATHODE (-)	22 Volts 1 Watt	Regulation Reference Clipping	V-R tube
Integrated Voltage Regulator (IVR)			 ANODE (+) CATHODE (-)	40 Volts 100 mA 0.4 Watts	Shunt voltage regulator Reference element Error modifier Level sensing Level shifting	Avalanche Diode
Tunnel Diode			 POSITIVE ELECTRODE NEGATIVE ELECTRODE	Peak point current = 100 mA Resistive cutoff freq. = 40 Gc	UHF converter Logic circuits Microwave circuits Level sensing	None
Back Diode			 ANODE CATHODE	5 mA 400 mV	Microwave mixers and low power oscillators	None
Thyrector			 VOLTAGE	70 A peak pulse (2" Sq cell)	Transient voltage suppression and arc suppression	Thyrite Two avalanche diodes in inverse-series connection
n-p-n Transistor			 COLLECTOR BASE EMITTER	300 Volts 25 Watts	Amplification Switching Oscillation	Pentode Tube
p-n-p Transistor			 COLLECTOR BASE EMITTER	75 Volts 25 Watts	Amplification Switching Oscillation	None
Photo Transistor			 COLLECTOR BASE EMITTER	45 Volts 0.25 Amps 0.6 Watts	Tape readers Card readers Position sensor Tachometers	None
Unijunction Transistor (UJT)			 BASE 2 EMITTER BASE 1	35 Volts 0.450 Watts	Interval timing Oscillation Level Detector SCR Trigger	None

MAJOR SEMICONDUCTOR COMPONENTS

NAME OF DEVICE	CIRCUIT SYMBOL	COMMONLY USED JUNCTION SCHEMATIC	ELECTRICAL CHARACTERISTICS	MAX RATINGS AVAILABLE	MAJOR APPLICATIONS	ROUGHLY ANALOGOUS TO:
Complementary Unijunction Transistor (CUJT)				Functional complement to UJT 30 Volts 0.30 Watts 0.15 Amps	High stability Oscillators and level detectors	None
Programmable Unijunction Transistor (PUT)				Programmed by two resistors for V_p, I_p, I_v . Function equivalent to normal UJT. 40 Volts 0.30 Watts 0.15 Amps	Low cost timers and oscillators Long period timers SCR trigger Level detector	UJT
Silicon Controlled Rectifier (SCR)				With anode voltage (+), SCR can be triggered by I_g remaining in conduction until anode 1 is reduced to zero 1000 Amps 1800 Volts	Power switching Phase control Inverters Choppers	Gas thyatron or ignitron
Complementary Silicon Controlled Rectifier (CSCR)				Polarity complement to SCR 50 Volts 0.25 Amps 0.45 Watts	Ring counters Low speed logic Lamp driver	None
Light Activated SCR* (LASCR)				Operates similar to SCR, except can also be triggered into conduction by light falling on junctions 1.6 Amps 200 Volts	Relay Replacement Position controls Photoelectric applications Slave flashes	None
Silicon Controlled Switch* (SCS)				Operates similar to SCR except can also be triggered on by a negative signal on anode-gate. Also several other specialized modes of operation 100 Volts 200 mA	Logic applications Counters Nixie drivers Lamp drivers	Complementary transistor pair
Silicon Unilateral Switch (SUS)				Similar to SCS but zener added to anode gate to trigger device into conduction at ~ 8 volts. Can also be triggered by negative pulse at gate lead 0.350 Watts 0.200 Amps 10 Volts	Switching Circuits Counters SCR Trigger Oscillator	Shockley or 4-layer diode
Silicon Bilateral Switch (SBS)				Symmetrical bilateral version of the SUS. Breaks down in both directions as SUS does in forward. 0.350 Watts 0.200 Amps 10 Volts	Switching Circuits Counters TRIAC Phase Control	Two inverse Shockley diodes
Triac				Operates similar to SCR except can be triggered into conduction in either direction by (+) or (-) gate signal 25 Amps 500 Volts	AC switching Phase control Relay replacement	Two SCR's in inverse parallel
Diac Trigger				When voltage reaches trigger level (about 35 volts) abruptly switches down about 10 volts 40 Volts 2 Amps peak	Triac and SCR trigger Oscillator	Neon lamp

*Light Activated SCS also available.

GLOSSARY OF WORDS, SYMBOLS AND ABBREVIATIONS

The following letter symbols and abbreviations are recommended by the Joint Electron Device Engineering Council (JEDEC) of the Electronic Industries Association (EIA) and the National Electrical Manufacturers Association (NEMA) for use in semiconductor device data sheets and specifications.

A, a —Anode	G_{pc} —Common-collector small-signal insertion power gain
B, b —Base	G_{pl} —Common-emitter large-signal insertion power gain
b_{fs} —Common-source small-signal forward transfer susceptance	G_{pp} —Common-emitter small-signal insertion power gain
b_{is} —Common-source small-signal input susceptance	G_{pr} —Common-gate small-signal insertion power gain
b_{os} —Common-source small-signal output susceptance	G_{ps} —Common-source small-signal insertion power gain
b_{rs} —Common-source small-signal reverse transfer susceptance	g_{rs} —Common-source small-signal reverse transfer conductance
C, c —Collector	G_{TB} —Common-base large-signal transducer power gain
C_{cb} —Collector-base interterminal capacitance	G_{tb} —Common-base small-signal transducer power gain
C_{ce} —Collector-emitter interterminal capacitance	G_{TC} —Common-collector large-signal transducer power gain
C_{ds} —Drain-source capacitance	G_{tc} —Common-collector small-signal transducer power gain
C_{du} —Drain-substrate capacitance	G_{TE} —Common-emitter large-signal transducer power gain
C_{eb} —Emitter-base interterminal capacitance	G_{tr} —Common-emitter small-signal transducer power gain
C_{ib} —Common-base open-circuit input capacitance	G_{tr} —Common-gate small-signal transducer power gain
C_{ibb} —Common-base short-circuit input capacitance	G_{ts} —Common-source small-signal transducer power gain
C_{ieo} —Common-emitter open-circuit input capacitance	h_{FB} —Common-base static forward current transfer ratio
C_{ios} —Common-emitter short-circuit input capacitance	h_{fb} —Common-base small-signal short-circuit forward current transfer ratio
C_{iss} —Common-source short-circuit input capacitance	h_{FC} —Common-collector static forward current transfer ratio
C_{ob} —Common-base open-circuit output capacitance	h_{fc} —Common-collector small-signal short-circuit forward current transfer ratio
C_{obs} —Common-base short-circuit output capacitance	h_{FE} —Common-emitter static forward current transfer ratio
C_{oo} —Common-emitter open-circuit output capacitance	h_{fe} —Common-emitter small-signal short-circuit forward current transfer ratio
C_{oss} —Common-emitter short-circuit output capacitance	h_{FEL} —Inherent large-signal forward current transfer ratio
C_{oss} —Common-source short-circuit output capacitance	h_{IB} —Common-base static input resistance
C_{rs} —Common-base short-circuit reverse transfer capacitance	h_{ib} —Common-base small-signal short-circuit input impedance
C_{rcs} —Common-collector short-circuit reverse transfer capacitance	h_{ic} —Common-collector static input resistance
C_{res} —Common-emitter short-circuit reverse transfer capacitance	h_{ic} —Common-collector small-signal short-circuit input impedance
C_{rss} —Common-source short-circuit reverse transfer capacitance	h_{ie} —Common-emitter static input resistance
C_{tc} —Collector depletion-layer capacitance	h_{ie} —Common-emitter small-signal short-circuit input impedance
C_{te} —Emitter depletion-layer capacitance	h_{ie(imag)} —Imaginary part of common-emitter small-signal short-circuit input impedance
D, d —Drain	h_{ie(real)} —Real part of common-emitter small-signal short-circuit input impedance
E, e —Emitter	h_{ob} —Common-base small-signal open-circuit output admittance
η —Intrinsic standoff ratio	h_{oc} —Common-collector small-signal open-circuit output admittance
f_{hfb} —Common-base small-signal short-circuit forward current transfer ratio cutoff frequency	h_{oe} —Common-emitter small-signal open-circuit output admittance
f_{hfc} —Common-collector small-signal short-circuit forward current transfer ratio cutoff frequency	h_{oe(imag)} —Imaginary part of common-emitter small-signal open-circuit output admittance
f_{hfe} —Common-emitter small-signal short-circuit forward current transfer ratio cutoff frequency	
f_{max} —Maximum frequency of oscillation	
F_T —Transition frequency (frequency at which common-emitter small-signal forward current transfer ratio extrapolates to unity)	
G, g —Gate	
g_{fs} —Common-source small-signal forward transfer conductance	
g_{is} —Common-source small-signal input conductance	
g_{MB} —Common-base static transconductance	
g_{MC} —Common-collector static transconductance	
g_{ME} —Common-emitter static transconductance	
g_{os} —Common-source small-signal output conductance	
G_{pb} —Common-base large-signal insertion power gain	
G_{pb} —Common-base small-signal insertion power gain	
G_{pc} —Common-collector large-signal insertion power gain	

- $h_{oe(\text{real})}$** —Real part of common-emitter small-signal open-circuit output admittance
- h_{rb}** —Common-base small-signal open-circuit reverse voltage transfer ratio
- h_{rc}** —Common-collector small-signal open-circuit reverse voltage transfer ratio
- h_{re}** —Common-emitter small-signal open-circuit reverse voltage transfer ratio
- I_B** —Base-terminal dc current
- I_b** —Alternating component (rms value) of base-terminal current
- i_B** —Instantaneous total value of base-terminal current
- I_{BEV}** —Base cutoff current, dc
- $I_{B2(\text{mod})}$** —Interbase modulated current
- I_C** —Collector-terminal dc current
- I_c** —Alternating component (rms value) of collector-terminal current
- i_C** —Instantaneous total value of collector-terminal current
- I_{CBO}** —Collector cutoff current (dc), emitter open
- I_{CEO}** —Collector cutoff current (dc), base open
- I_{CER}** —Collector cutoff current (dc), specified resistance between base and emitter
- I_{CES}** —Collector cutoff current (dc), base shorted to emitter
- I_{CEV}** —Collector cutoff current (dc), specified voltage between base and emitter
- I_{CEX}** —Collector cutoff current (dc), specified circuit between base and emitter
- I_D** —Drain current, dc
- $I_{D(\text{off})}$** —Drain cutoff current
- $I_{D(\text{on})}$** —On-state drain current
- I_{DSS}** —Zero-gate-voltage drain current
- I_E** —Emitter-terminal dc current
- I_e** —Alternating component (rms value) of emitter-terminal current
- i_E** —Instantaneous total value of emitter-terminal current
- I_{EBO}** —Emitter cutoff current (dc), collector open
- I_{EB20}** —Emitter reverse current
- $I_{EC(\text{ofs})}$** —Emitter-collector offset current
- I_{ECS}** —Emitter cutoff current (dc), base short-circuited to collector
- $I_{E1E2(\text{off})}$** —Emitter cutoff current
- I_F** —For voltage-regulator and voltage-reference diodes: dc forward current. For signal diodes and rectifier diodes: dc forward current (no alternating component)
- I_f** —Alternating component of forward current (rms value)
- i_F** —Instantaneous total forward current
- $I_{F(AV)}$** —Forward current, dc (with alternating component)
- I_{FM}** —Maximum (peak) total forward current
- $I_{F(CV)}$** —Forward current, overload
- I_{FRM}** —Maximum (peak) forward current, repetitive
- $I_{F(RMS)}$** —Total rms forward current
- I_{FSM}** —Maximum (peak) forward current, surge
- I_G** —Gate current, dc
- I_{GF}** —Forward gate current
- I_{GR}** —Reverse gate current
- I_{GSS}** —Reverse gate current, drain short-circuited to source
- I_{GSSF}** —Forward gate current, drain short-circuited to source
- I_{GSSR}** —Reverse gate current, drain short-circuited to source
- I_i** —Inflection-point current
- $Im(h_{ie})$** —Imaginary part of common-emitter small-signal short-circuit input impedance
- $Im(h_{oe})$** —Imaginary part of common-emitter small-signal open-circuit output admittance
- I_O** —Average forward current, 180° conduction angle, 60-Hz half sine wave
- I_p** —Peak-point current
- I_R** —For voltage-regulator and voltage-reference diodes: dc reverse current. For signal diodes and rectifier diodes: dc reverse current (no alternating component)
- I_r** —Alternating component of reverse current (rms value)
- i_R** —Instantaneous total reverse current
- $I_{R(AV)}$** —Reverse current, dc (with alternating component)
- I_{RM}** —Maximum (peak) total reverse current
- I_{RRM}** —Maximum (peak) reverse current, repetitive
- $I_{R(RMS)}$** —Total rms reverse current
- I_{RSM}** —Maximum (peak) surge reverse current
- I_S** —Source current, dc
- I_{SDS}** —Zero-gate-voltage source current
- $I_{S(\text{off})}$** —Source cutoff current
- I_v** —Valley-point current
- I_Z** —Regulator current, reference current (dc)
- I_{ZK}** —Regulator current, reference current (dc near breakdown knee)
- I_{ZM}** —Regulator current, reference current (dc maximum rated current)
- K, k**—Cathode
- L_c** —Conversion loss
- M**—Figure of merit
- NF_o** —Overall noise figure
- NR_o** —Output noise ratio
- P_{BE}** —Power input (dc) to base, common emitter
- p_{BE}** —Instantaneous total power input to base, common emitter
- P_{CB}** —Power input (dc) to collector, common base
- p_{CB}** —Instantaneous total power input to collector, common base
- P_{CE}** —Power input (dc) to collector, common emitter
- p_{CE}** —Instantaneous total power input to collector, common emitter
- P_{EB}** —Power input (dc) to emitter, common base
- p_{EB}** —Instantaneous total power input to emitter, common base
- P_F** —Forward power dissipation, dc (no alternating component)
- p_F** —Instantaneous total forward power dissipation
- $P_{F(AV)}$** —Forward power dissipation, dc (with alternating component)
- P_{FM}** —Maximum (peak) total forward power dissipation
- P_{IB}** —Common-base large-signal input power
- p_{ib}** —Common-base small-signal input power
- P_{IC}** —Common-collector large-signal input power
- p_{ic}** —Common-collector small-signal input power
- P_{IE}** —Common-emitter large-signal input power
- p_{ie}** —Common-emitter small-signal input power
- P_{OB}** —Common-base large-signal output power
- p_{ob}** —Common-base small-signal output power
- P_{OC}** —Common-collector large-signal output power
- p_{oc}** —Common-collector small-signal output power
- P_{OE}** —Common-emitter large-signal output power
- p_{oe}** —Common-emitter small-signal output power
- P_R** —Reverse power dissipation, dc (no alternating component)
- p_R** —Instantaneous total reverse power dissipation
- $P_{R(AV)}$** —Reverse power dissipation, dc (with alternating component)

- P_{RM}** —Maximum (peak) total reverse power dissipation
 P_T —Total nonreactive power input to all terminals
 P_T —Nonreactive power input, instantaneous total, to all terminals
 Q_S —Stored charge
 r_{BB} —Interbase resistance
 $r_b C_c$ —Collector-base time constant
 $r_{CE(sat)}$ —Saturation resistance, collector-to-emitter
 $r_{DS(on)}$ —Static drain-source on-state resistance
 $r_{ds(on)}$ —Small-signal drain-source on-state resistance
 $Re(h_{ie})$ —Real part of common-emitter small-signal short-circuit input impedance
 $Re(h_{oe})$ —Real part of common-emitter small-signal open-circuit output admittance
 $r_{e1e2(on)}$ —Small-signal emitter-emitter on-state resistance
 r_i —Dynamic resistance at inflection point
 R_{θ} —Thermal resistance
 $R_{\theta CA}$ —Thermal resistance, case to ambient
 $R_{\theta JA}$ —Thermal resistance, junction to ambient
 $R_{\theta JC}$ —Thermal resistance, junction to case
 S, s —Source
 T_A —Ambient temperature or free-air temperature
 T_C —Case temperature
 t_d —Delay time
 $t_{d(off)}$ —Turn-off delay time
 $t_{d(on)}$ —Turn-on delay time
 t_f —Fall time
 t_{fr} —Forward recovery time
 T_j —Junction temperature
 t_{off} —Turn-off time
 t_{on} —Turn-on time
 t_p —Pulse time
 t_r —Rise time
 t_{rr} —Reverse recovery time
 t_s —Storage time
TSS —Tangential signal sensitivity
 T_{stR} —Storage temperature
 t_w —Pulse average time
 U, u —Bulk (substrate)
 V_{BB} —Base supply voltage (dc)
 V_{BC} —Average or dc voltage, base to collector
 V_{bc} —Instantaneous value of alternating component of base-collector voltage
 V_{BE} —Average or dc voltage, base to emitter
 V_{be} —Instantaneous value of alternating component of base-emitter voltage
 $V_{(BR)}$ —Breakdown voltage (dc)
 $V_{(BR)}$ —Breakdown voltage (instantaneous total)
 $V_{(BR)CBO}$ —Collector-base breakdown voltage, emitter open
 $V_{(BR)CEO}$ —Collector-emitter breakdown voltage, base open
 $V_{(BR)CER}$ —Collector-emitter breakdown voltage, resistance between base and emitter
 $V_{(BR)CES}$ —Collector-emitter breakdown voltage, base shorted to emitter
 $V_{(BR)CEV}$ —Collector-emitter breakdown voltage, specified voltage between base and emitter
 $V_{(BR)CEX}$ —Collector-emitter breakdown voltage, specified circuit between base and emitter
 $V_{(BR)EBO}$ —Emitter-base breakdown voltage, collector open
 $V_{(BR)ECO}$ —Emitter-collector breakdown voltage, base open
 $V_{(BR)E1E2}$ —Emitter-emitter breakdown voltage
 $V_{(BR)GSS}$ —Gate-source breakdown voltage
 $V_{(BR)GSSF}$ —Forward gate-source breakdown voltage
 $V_{(BR)GSSR}$ —Reverse gate-source breakdown voltage
 V_{B2B1} —Interbase voltage
 V_{CB} —Average or dc voltage, collector to base
 v_{cb} —Instantaneous value of alternating component of collector-base voltage
 $V_{CB(off)}$ —Collector-base dc open-circuit voltage (floating potential)
 V_{CBO} —Collector-base voltage, dc, emitter open
 V_{CC} —Collector supply voltage (dc)
 V_{CE} —Average or dc voltage, collector to emitter
 v_{ce} —Instantaneous value of alternating component of collector-emitter voltage
 $V_{CE(off)}$ —Collector-emitter dc open-circuit voltage (floating potential)
 V_{CEO} —Collector-emitter voltage (dc), base open
 $V_{CE(ofs)}$ —Collector-emitter offset voltage
 V_{CER} —Collector-emitter voltage (dc), resistance between base and emitter
 V_{CES} —Collector-emitter voltage (dc), base shorted to emitter
 $V_{CE(sat)}$ —Collector-emitter dc saturation voltage
 V_{CEV} —Collector-emitter voltage (dc), specified voltage between base and emitter
 V_{CEX} —Collector-emitter voltage (dc), specified circuit between base and emitter
 V_{DD} —Drain supply voltage (dc)
 V_{DC} —Drain-gate voltage
 V_{DS} —Drain-source voltage
 $V_{DS(on)}$ —Drain-source on-state voltage
 V_{DU} —Drain-substrate voltage
 V_{EB} —Average or dc voltage, emitter to base
 v_{eb} —Instantaneous value of alternating component of emitter-base voltage
 $V_{EB(off)}$ —Emitter-base dc open-circuit voltage (floating potential)
 V_{EBO} —Emitter-base voltage (dc), collector open
 $V_{EB1(sat)}$ —Emitter saturation voltage
 V_{EC} —Average or dc voltage, emitter to collector
 v_{ec} —Instantaneous value of alternating component of emitter-collector voltage
 $V_{EC(off)}$ —Emitter-collector dc open-circuit voltage (floating potential)
 $V_{EC(ofs)}$ —Emitter-collector offset voltage
 V_{EE} —Emitter supply voltage (dc)
 V_F —For voltage-regulator and voltage-reference diodes: dc forward voltage. For signal diodes and rectifier diodes: dc forward voltage (no alternating component)
 V_f —Alternating component of forward voltage (rms value)
 V_F —Instantaneous total forward voltage
 $V_{F(AV)}$ —Forward voltage, dc (with alternating component)
 V_{FM} —Maximum (peak) total forward voltage
 $V_{F(RMS)}$ —Total rms forward voltage
 V_{GG} —Gate supply voltage (dc)
 V_{GS} —Gate-source voltage
 V_{GSF} —Forward gate-source voltage
 $V_{GS(off)}$ —Gate-source cutoff voltage
 V_{GSR} —Reverse gate-source voltage
 $V_{GS(th)}$ —Gate-source threshold voltage
 V_{GU} —Gate-substrate voltage
 V_i —Inflection-point voltage
 V_{OB1} —Base-1 peak voltage
 V_P —Peak-point voltage
 V_{PP} —Projected peak-point voltage
 V_R —For voltage-regulator and voltage-reference diodes: dc reverse voltage. For signal diodes and rectifier diodes: dc reverse voltage (no alternating component)
 V_r —Alternating component of reverse voltage (rms value)

- V_R —Instantaneous total reverse voltage
 $V_{R(AV)}$ —Reverse voltage, dc (with alternating component)
 V_{RM} —Maximum (peak) total reverse voltage
 V_{RRM} —Repetitive peak reverse voltage
 $V_{R(RMS)}$ —Total rms reverse voltage
 V_{RSM} —Nonrepetitive peak reverse voltage
 V_{RT} —Reach-through voltage
 V_{RWM} —Working peak reverse voltage
 V_{SS} —Source supply voltage (dc)
 V_{SU} —Source-substrate voltage
 $V_{(TO)}$ —Threshold voltage
 V_V —Valley-point voltage
 V_Z —Regulator voltage, reference voltage (dc)
 V_{ZM} —Regulator voltage, reference voltage (dc at maximum rated current)
 y_{ib} —Common-base small-signal short-circuit forward transfer admittance
 y_{ic} —Common-collector small-signal short-circuit forward transfer admittance
 y_{fe} —Common-emitter small-signal short-circuit forward transfer admittance
 y_{fs} —Common-source small-signal short-circuit forward transfer admittance
 $y_{fs(imag)}$ —Common-source small-signal forward transfer susceptance
 $y_{fs(real)}$ —Common-source small-signal forward transfer conductance
 y_{ib} —Common-base small-signal short-circuit input admittance
 y_{ic} —Common-collector small-signal short-circuit input admittance
 y_{ie} —Common-emitter small-signal short-circuit input admittance
 $y_{ie(imag)}$ —Imaginary part of small-signal short-circuit input admittance (common-emitter)
 $y_{ie(real)}$ —Real part of small-signal short-circuit input admittance (common-emitter)
 y_{is} —Common-source small-signal short-circuit input admittance
 $y_{is(imag)}$ —Common-source small-signal input susceptance
 $y_{is(real)}$ —Common-source small-signal input conductance
 y_{ob} —Common-base small-signal short-circuit output admittance
 y_{oc} —Common-collector small-signal short-circuit output admittance
 y_{oe} —Common-emitter small-signal short-circuit output admittance
 $y_{oe(imag)}$ —Imaginary part of small-signal short-circuit output admittance (common-emitter)
 $y_{oe(real)}$ —Real part of small-signal short-circuit output admittance (common-emitter)
 y_{os} —Common-source small-signal short-circuit output admittance
 $y_{os(imag)}$ —Common-source small-signal output susceptance
 $y_{os(real)}$ —Common-source small-signal output conductance
 y_{rb} —Common-base small-signal short-circuit reverse transfer admittance
 y_{rc} —Common-collector small-signal short-circuit reverse transfer admittance
 y_{re} —Common-emitter small-signal short-circuit reverse transfer admittance
 y_{rs} —Common-source small-signal short-circuit reverse transfer admittance
 $y_{rs(imag)}$ —Common-source small-signal reverse transfer susceptance
 $y_{rs(real)}$ —Common-source small-signal reverse transfer conductance
 z_{if} —Intermediate-frequency impedance
 z_m —Modulator-frequency load impedance
 z_{rf} —Radio-frequency impedance
 $Z_{\theta(A(t))}$ —Junction-to-ambient transient thermal impedance
 $Z_{\theta(C(t))}$ —Junction-to-case transient thermal impedance
 $Z_{\theta(t)}$ —Transient thermal impedance
 z_v —Video impedance
 z_z —Regulator impedance, reference impedance (small-signal at I_z)
 z_{zk} —Regulator impedance, reference impedance (small-signal at I_{ZK})
 z_{zm} —Regulator impedance, reference impedance (small-signal at I_{ZM})

PREFIX AND MANUFACTURER IDENTIFICATION

PREFIX	MANUFACTURER	PREFIX	MANUFACTURER	PREFIX	MANUFACTURER
BA	Rohm	MOC	Motorola	SLP	Sanyo
CEX	Control Electronics	MPS	Motorola	SN	Texas Instruments
DAC	National Semiconductor	MRF	Motorola	TA	Toshiba
FND	Fairchild	MU	Motorola	TIL	Texas Instruments
FRL	Litronix	MV	General Instrument	TIP	Motorola
ICM	Intersil	NE	Signetics	TLO	Texas Instruments
LF	National Semiconductor	NSM	National Semiconductor	TL	Texas Instruments
LM	National Semiconductor	PCIM	PC International	TLG	Toshiba
MA	National Semiconductor	S	American Micro Systems	TLR	Toshiba
MC	Motorola	SAD	Reticon	VN	Siliconix
MJ	Motorola	SE	Signetics	XC	Xciton
MM	National Semiconductor.	SEL	Sanken		
	Motorola or Teledyne	SCS	Spectronics		

GENERIC PART NUMBER PREFIX CODE

AD	Analog To Digital	DA	Digital To Analog	LM	Linear Monolithic
AH	Analog Hybrid	DM	Digital Monolithic	MM	MOS Monolithic
AM	Analog Monolithic	LF	Linear FET	TBA	Linear Monolithic
CD	CMOS Digital	LH	Linear Hybrid		

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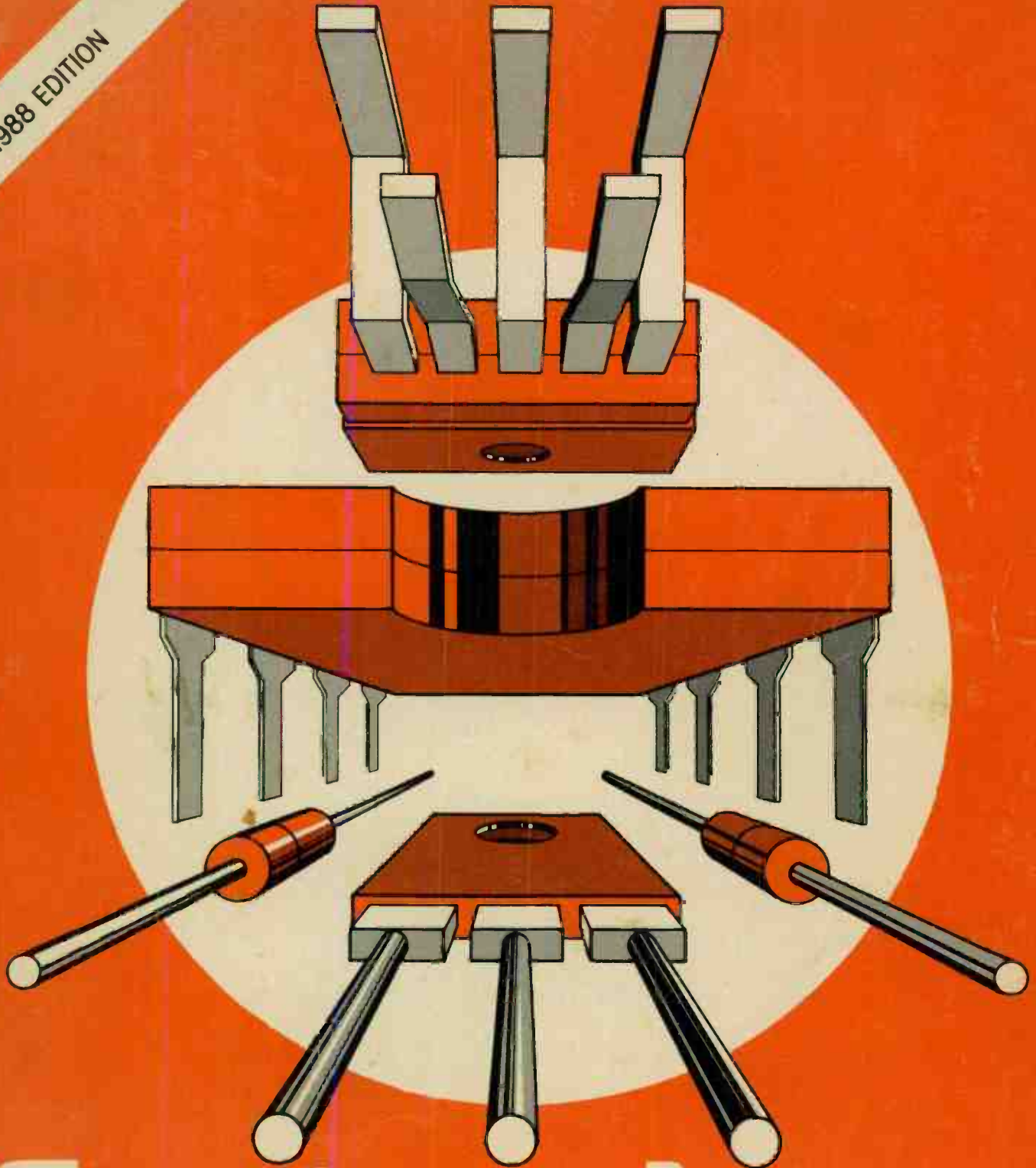
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Semiconductor Reference Guide

INCLUDES OVER 94,000 SEMICONDUCTOR SUBSTITUTIONS

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INTRODUCTION

This SEMICONDUCTOR REFERENCE HANDBOOK is intended to be just that—a reference handbook. It is not a definitive text book on semiconductors. It is a compilation of data on Radio Shack's line of prime-quality ARCHER[®] semiconductors. Every ARCHER device covered in this Handbook is guaranteed prime—they are not "fall-outs" or "seconds"; all are top-quality, with known JEDEC, EIA or manufacturer's numbers.

At the back of the book is a cross-reference listing for replacement of Transistors, Diodes and other interchangeable semiconductor devices. The total number of cross-referenced devices exceeds 94,000. These cross-reference/replacement listings are computer-selected and are based on careful analysis of important parameters of the listed devices.

NOTE: If you can't find a replacement listing for a device you require, refer to the specification listings of the appropriate ARCHER family device. Often you will be able to make suitable replacements based on the information presented.

Each ARCHER replacement should meet or exceed the required parameters. However, due to differences in Quality Control and Manufacturing procedures (which often allow for or result in broad parameter variations), and because many of the ARCHER devices are capable of better performance than the original, Radio Shack does not guarantee, nor does it imply, that the listed items will provide an exact replacement in every instance. Therefore we recommend that you check the voltage and current requirements of the circuit (and other pertinent specifications) before replacement and compare with the specifications listed for that particular ARCHER device.

HOW TO USE THIS BOOK

This book has been prepared to aid in BOTH replacement and original applications of Semiconductor devices. The information included will be invaluable for the service technician as well as the circuit designer (whether he be an engineer, hobbyist, student or electronics experimenter).

We have included hints on handling Semiconductor devices, operating considerations, and some simple tests to aid you in evaluating the quality of the device in existing equipment (and thus the need for replacement). Also, a complete section on the specifications for each of the ARCHER devices is included; if there is any question in your mind about replacement equivalents or original use, refer to the appropriate category in the book. You will find the important characteristics specified there.

The next to last section is an extensive listing of replacement and cross reference between other manufacturer's numbers (both JEDEC/EIA 2N—numbers and in-house designations) and the ARCHER devices. This listing provides for the substitution of over 94,000 semiconductors with ARCHER devices.

The final section includes case style drawings and some handy reference notes, a comprehensive glossary of commonly used words, plus symbols and abbreviations.

CARE AND HANDLING OF TRANSISTORS

Most modern transistors are somewhat immune from mechanical shock; however, it is always a good idea to keep them from excessive mechanical shocks, especially the metal-case type (avoid dropping, etc).

When cutting transistor leads, use scissor-type cutting tools (rather than diagonal cutting tools which use a crimping action). Crimp-type cutting tools produce a mechanical shock along the lead which when transmitted to the semiconductor chip or material can cause fracture. Consider the force with which the cut lead flies off the crimp-type cutting tool and you have a good idea of the intensity of the equal and opposite force which acts on the lead going into the device.

It is always a good practice to use a heat-sink tool on a transistor lead when soldering (use a low-wattage iron—30-watts or less). Heat from soldering can cause problems (especially with certain types of semiconductor devices). Thus, to be sure, always use a heat-sink on the lead when soldering. Gripping the lead with long nose pliers between the solder connection and the case of the device makes a good heat-sink; or use a tool designed for such use.

SILICON OR GERMANIUM?

The quickest way to determine if a transistor is germanium or silicon type, is to check the normal emitter-base voltage drop. With NPN devices, if the base is approximately 0.25 volts positive with respect to the emitter, it is a germanium type. If the voltage is about 0.65 volts, it is a silicon type. For PNP devices, the voltage will be the same value, but opposite in polarity (0.25 volts for germanium and 0.65 for silicon).

OPERATING CONSIDERATIONS

Before replacing an original-equipment device with the recommended Archer Type:

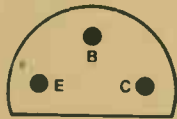
(A) Compare the lead or terminal arrangement of the Archer replacement device with the lead or ter-

minal arrangement of the original device. If these arrangements are different, and the original transistor is a "plug in" type, bend the leads of the ARCHER device so that the base, emitter and collector leads will mate with the original transistor leads. Trim the leads after soldering in place.

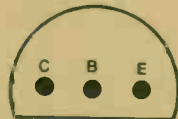
CAUTION: Be particularly careful about "pin-circle" and "in-line" lead break-out type transistors. Often one manufacturer makes a type with "in-line" leads, while another may make the same type with "pin-circle" configuration. **Doublecheck both the original and the replacement device before soldering or plugging in transistors.**

BOTTOM VIEW

PIN-CIRCLE



IN-LINE



(B) Certain considerations are involved whenever an original equipment transistor is replaced by one having a different type designation. When an ARCHER series transistor is used to replace an original equipment device in an untuned amplifier stage operating at a low signal level such as the untuned RF-amplifier (antenna) stage of a radio receiver, or a low-level AF amplifier stage, it is generally unnecessary to make any circuit adjustment to assure proper performance of the equipment. However, when a replacement is made in a turned RF amplifier stage, it is always advisable to check the alignment of the associated tuned circuits to assure proper tracking and to achieve the required gain without loss of stability.

(C) When replacements are made in stages operating at relatively high power levels, such as Class A and Class B AF output stages of automobile radio receivers, phonographs and AF-amplifier systems, the transistor bias should be checked and adjusted, if necessary, to protect the ARCHER replacement transistors against excessive dissipation and to minimize distortion. Means for making adjustments are generally provided in the equipment, and the necessary instructions are usually given in the equipment manufacturer's service data.

(D) When installing an ARCHER transistor as a substitute for an original equipment type in an FM tuner, TV tuner, or other circuits operating at frequencies in the VHF or UHF regions, it is extremely important not to change any of the lead lengths or position of the original circuit. Before removing the original transistor, carefully note its position with respect to other circuit components as well as the lengths and placement of the transistor leads, and duplicate these details as closely as possible with the ARCHER replacement transistor. Failure to observe this precaution can result in improper tuning or circuit instability. The same holds true for any replacement of Integrated Circuits, specially in FM radios and TV Receivers. Failure to

observe this precaution can result in damage in the device. Transistor substitution in tuned circuits will often require realignment of the circuit.

SILICON VS SELENIUM RECTIFIERS

Silicon rectifiers are inherently more efficient than selenium or other metallic-oxide type rectifiers. When a silicon rectifier is used to replace a selenium rectifier in the power supply of a typical line-operated radio or TV receiver, the silicon rectifier will frequently deliver higher DC output voltage than the original device.

In some cases, this higher supply voltage may improve the performance of the equipment. However, in many other cases, it may immediately or eventually damage filter capacitors and/or other components which were designed to withstand only the voltage delivered by the original selenium rectifier. To prevent such damage, it is generally advisable to insert a power type resistor in series with the silicon rectifier either on the input side, between the AC supply and the rectifier, or on the output side between the rectifier and the first filter capacitor. The value of this resistor will depend on the required reduction in the DC output voltage and on the DC load current of the equipment. This value may be determined experimentally or calculated from the equation:

$$R = \frac{E}{I}$$

where R is the required resistance in ohms, E the required reduction in DC output voltage in volts and I the DC load current in amperes.

The wattage rating of the resistor should be at least $2 \times EI$ (in no case less than 10 watts).

SOLDERING PRECAUTIONS

Extreme care should always be used in making solder connections to semiconductors. Momentary application of excessive heat, or even prolonged application of a properly heated soldering tool to a semiconductor lead or terminal, can permanently damage the device. Observe the following precautions in soldering a semiconductor lead or terminal:

1. Solder as far as possible from the body of the semiconductor.
2. Never, apply heat or molten solder to a lead or terminal for longer than 10 seconds or at a point closer than 1/16 inch to the body of the device.
3. Use a low voltage iron (30 watts or less) specifically intended for use with transistors or miniature circuit components.
4. Keep the surfaces to be soldered clean and the tip of the soldering tool adequately tinned so that the connection can be made as quickly as possible.
5. Always use a heat sink on the lead when soldering. Gripping the lead or terminal with longnose pliers between the solder connection and case or body allows the pliers to act as a heat sink, conducting heat away from the internal elements of the device.

ABOUT CASE DIMENSIONS

In some instances, the case of an ARCHER Semi-

conductor may be slightly taller or thicker than that of the original device or have a slightly different shape, particularly if the original device is a foreign type not made to U.S.A. EIA (JEDEC) standards. These mechanical differences should not affect the performance of the equipment in which the replacement is made and normally will not prevent or complicate the installation of the ARCHER replacement device.

You should realize that cross-reference substitution listings are created based on **electrical parameters (not necessarily on mechanical size or type)**. Thus, when you make substitutions based on our listings, check for physical/mechanical compatibility. If space is limited, it would be a good idea to check physical dimensions as well as electrical specs before making substitution.

GENERAL PRECAUTIONS

ARCHER transistor and ARCHER semiconductors should not be inserted or withdrawn from circuits with the power on, because transient currents may cause permanent damage to the device. In some cases ARCHER semiconductors are in metal cans and thus could possibly become shock hazards if they are allowed to operate at a voltage appreciably above or below ground potential.

For the most effective protection, a power transistor should be operated with an adequate heat sink and with the lowest value of resistance or impedance in the emitter-to-base circuit consistent with driving signal considerations. The transistor should be protected against extremely high collector voltage pulses which may be generated when the device is operated with inductive loads particularly when current transients are present.

When replacing a power transistor or rectifier which is attached to the equipment chassis, or to a special heat sink, observe the following precautions:

A. In the case of oxide coated metal washers or wafers, which are frequently used as electrical insulators between the cases of power transistors and the chassis or heat sink, it is important not to scratch, chip or otherwise damage the oxide surface.

B. When installing an ARCHER power transistor, where a mica or oxide coated metal washer was used to insulate the case of the original device electrically from the case, apply a thin coating of Heat Sink Compound (Radio Shack Number 276-1372) between the washer and the chassis or heat sink.

TESTING A TRANSISTOR

Before replacing a transistor you want to be sure it needs to be replaced. Always check the entire circuitry to be sure the transistor requires replacement.

The best method for checking transistors is to use a good transistor checker (dynamic in-circuit and out-of-circuit type). However, a sensitive VOM can give you a good indication of the quality of the device.

I. In-Circuit Testing

A. First, check to see if the emitter-base junction is

forward-biased. An NPN transistor should show the base 0.2 to 0.65 volts positive with respect to the emitter (approximately 0.25 volts for a germanium type and 0.6 volts for silicon). A PNP transistor should show the base 0.2 to 0.65 volts negative with respect to the emitter (0.25 volts for germanium and 0.6 volts for silicon).

B. Check to see if the device is functioning as an amplifier. Short the emitter-base junction to remove forward bias. Voltage at the collector lead should rise to approximately the potential of the collector supply buss line. Any difference is caused by ICES (collector-to-base leakage current). The closer the collector voltage approaches the buss line, the lower ICES is and the better the transistor.

II. Out-of-Circuit Testing

Again, for the best indication of transistor quality, use a good transistor checker. However, an ohmmeter can be used as described here.

Before using the ohmmeter, find out which polarity of the internal ohmmeter battery is connected to which test lead (not all ohmmeters have the + battery polarity connected to the red lead and the - battery polarity connected to the black lead). To determine the polarity of the leads when using the ohmmeter function, use an external voltmeter or study the schematic of your VOM.

Also, remember that in most transistor circuits you are dealing with low voltages and currents (in some cases, very low). Therefore, NEVER use RX1 scale (extensive currents can flow through a junction, permanently damaging the transistor). It is best to determine the maximum amount of current available in each resistance range before using an ohmmeter for testing semiconductor junctions.

After you have evaluated your VOM for the above and are sure you will not damage a transistor (with excessive current or voltage in any given ohmmeter range), proceed as follows:

- A. Small Signal PNP Germanium Transistors
 1. Connect the positive lead of your ohmmeter to the emitter. Connect the negative lead to the base. You should read 200-500 ohms.
 2. Connect the negative lead to the collector. You should read 10K-100K. Shorting collector base, the resistance should decrease.
- B. Small Signal NPN Germanium Transistors
Reverse the polarity of the leads; the readings should be approximately the same.
- C. Power PNP Germanium Transistors
 1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 35-50 ohms.
 2. Connect the negative lead to the collector. The reading should be several hundred ohms. Shorting collector to base, the resistance should decrease.
- D. Power NPN Germanium Transistors
Reverse the polarity of the leads; the reading should be approximately the same.

E. Small Signal PNP Silicon Transistors

1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 1K-3K.
2. Connect the negative lead to the collector. The reading should be very high (may show as an "open").

F. Small Signal NPN Silicon Transistors

Reverse the polarity of the leads; the readings should be approximately the same.

G. Power PNP Silicon Transistors

1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 200-1K.
2. Connect the negative lead to the collector. The reading should be about 1 megohm or more.

H. Power NPN Silicon Transistors

Reverse the polarity of the leads; the readings should be approximately the same.

The resistance readings noted above can only be approximate; as long as you obtain somewhat proportionate readings (emitter-base readings as compared to emitter-collector), you can safely assume the transistor is OK.

HANDLING OF INTEGRATED CIRCUITS

Because MOS devices have extremely high input resistance, they are susceptible to damage when exposed to static electrical charges (even electrical charges that normally build up on the human body can cause damage). To avoid possible damage to the devices during handling, testing, or actual operation, the following procedures should be observed:

1. Except when being tested or in actual operation, the leads of devices should be in contact with a conductive material, to avoid build-up of static charge.
2. Soldering iron tips, tools, metal parts of fixtures and handling facilities should be grounded.
3. Transient voltages may cause permanent damage to the device if it is removed or inserted with the power on.
4. Do not apply signals to the input with the power supply off.
5. All unused input leads must be connected to either VSS or VDD (whichever is appropriate for the logic circuit involved).

DIODES AND RECTIFIERS

GENERAL PURPOSE DIODES RATINGS @ 25°C

Catalog Number	PIV (min) V	If A	Ir (max) @ Vr μ A	Vf (max) @ If V	Case Style
276-1101	50	1.000	10	1.6	DO41
276-1102	200	1.000	10	1.6	DO41
276-1103	400	1.000	10	1.6	DO41
276-1104	600	1.000	10	1.6	DO41
276-1114	1000	2.500	200	1.0	A1vm
276-1122	75	0.010	250nA	1.0	A1
276-1123*	50	0.085	15	1.0	A1
276-1141	50	3.000	500	1.2	A3q
276-1143	200	3.000	500	1.2	A3q
276-1144	400	3.000	500	1.2	A3q
276-1165†	40	1.000	5mA	0.55	A1

*GERMANIUM
†SCHOTTKY

ZENER DIODES—1 Watt

Catalog Number	Vz Volts \pm 10%	Iz @ mA	Zz @ Iz ohms max	Case Style
276-565	5.1	49	7	DO41
276-561	6.2	41	2	DO41
276-562	9.1	25	7	DO41
276-563	12.0	21	9	DO41
276-564	15.0	17	14	DO41

BRIDGE RECTIFIERS

Catalog Number	PIV (min) V	If (max) A	Case Style
276-1146	50	4	M532a
276-1151	50	1.4	M548
276-1152	100	1.4	M548
276-1161	50	1	Y1
276-1171	100	4	M532a
276-1173	400	4	M532a
276-1180	50	6	M532a
276-1181	250	6	M532a
276-1185	50	25	—

BIPOLAR TRANSISTORS

Catalog Number	Direct Commercial Equivalent	Mat.	Appl.	Polarity	Power Diss. @25°C Free Air	f _T Typical MHz	V _{CBO} V	V _{CEO} V	V _{EB0} V	I _C Max	I _e Max	h _{FE}	@V _{CE} @ I _C		I _{CBO} at max V _{CB}	Case Style
													V	mA		
276-1604#	2N3906	S	G.P.	PNP	350mW	250	40	40	5	200mA	—	60	1	0.1	—	T092
276-1617#	2N2222	S	G.P.	NPN	500mW	250	60	30	5	800mA	—	35	10	0.1	—	T018
276-2009	MPS2222A	S	G.P.	NPN	625mW	300	75	40	6	800mA	—	50	10	1	10nA	T092
276-2016	MPS3904	S	S	NPN	625mW	300	60	40	6	200mA	—	100-300	10	1	50nA	T092
276-2017	TIP31	S	P	NPN	40W‡	3	40	40	5	3A	1A	10-50	4	3A	300μA	T0220AB-2
276-2020	TIP3055	S	P	NPN	90W‡	3	100	70	7	15A	7A	20-70	4	4A	1mA	T0220
276-2023	MPS2907	S	S	PNP	625mW	200	60	40	5	600mA	—	50	10	1	20nA	T092
276-2027	MJE34	S	P	PNP	90W‡	3	40	40	5	10A	3A	20-100	4	3A	220μA	T0220
276-2030	2N3053	S	P	NPN	5W	100	60	40	5	700mA	—	50-250	10	150	—	T039
276-2041	2N3055	S	P	NPN	115W‡	2.5	100	60	7	15A	7A	20-70	4	1A	—	T03
276-2043	MJ2955	S	P	PNP	150W‡	4	100	60	7	15A	7A	70	10	0.5	0.7mA	T03
276-2055	2SC1308	S	SW	NPN	50W‡	—	1500	400	6	7A	0.8A	3	2	4A	100μA	T03
276-2058	2N4401	S	G.P.	NPN	625mW	250 min.	40	60	6	600mA	—	500	10	1	0.1μA	T092
276-2068	TIP120	S	P*	NPN	65W‡	0.1	60	60	5	5A	120mA	2500	3	500	0.2mA	T0220AB-2

NOTE: All ratings given are for 25°C except where otherwise noted. #—Archer-Pack ‡With heat sink

MATERIAL:

S—Silicon; G—Germanium

APPLICATION:

S—Switch

G.P.—General Purpose

P—Power amp/switch

RF/IF—RF/IF frequency

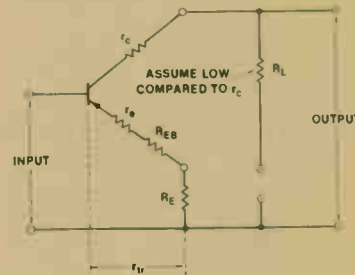
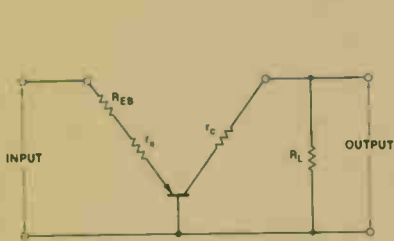
*—High Gain Darlington

UHF—Ultrahigh frequency

LL—Low Level

SW—TV Sweep

USEFUL INFORMATION



Parameters of Common-Base Circuit

Input Impedance $Z_{in} = r_{tr}$

Load Impedance $Z_L = R_L$ in parallel with input impedance of following stage.

Current Gain $A_i = \alpha = \frac{\beta}{1 + \beta}$
(In practice, α is 0.95 to 0.995, or approximately 1.)

Voltage Gain $A_v \approx \frac{Z_L}{r_{tr}} = g_m Z_L$

Parameters of Common-Collector Circuit

Input Impedance $Z_{in} = (\beta + 1)Z_L$
where, Z_L is R_L in parallel with R_E .

Output Impedance $Z_{out} = \frac{R_S}{\beta + 1}$
where, R_S is the output impedance of the signal source.

Current Amplification $A_i = \beta$

Voltage Amplification $A_v =$ Less than unity

Parameters of Common-Emitter Circuit

input Impedance $Z_{in} = h_{ie} r_{tr}$

Load Impedance $Z_L = R_L$ in parallel with input impedance of next stage.

Current Gain $A_i = \frac{\Delta I_C}{\Delta I_B} = h_{fe}$
where, $h_{fe} = \beta = \frac{I_C}{I_B} = \frac{\alpha}{1 - \alpha}$

Voltage Gain $A_v = \frac{\Delta V_C}{\Delta V_B} = \frac{Z_L}{r_{tr}} = g_m Z_L$

Power Gain $A_p = \frac{V_{out} I_{out}}{V_{in} I_{in}} = \beta \frac{Z_L}{r_{tr}}$

SILICON N-CHANNEL JUNCTION FIELD EFFECT TRANSISTOR

MPF102
276-2062

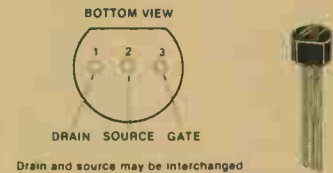
GENERAL DESCRIPTION

The MPF102 is designed for small signal applications. These include VHF amplifiers and mixers.

ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Drain-Source Voltage	25 V
Drain-Gate Voltage	25 V
Gate-Source Voltage	25 V
Gate Current	10 mA
Total Device Dissipation	310 mW
Operating Junction Temperature	125°C
Storage Temperature Range	- 65 to + 150°C

PIN CONNECTION



N-CHANNEL MOSFET TRANSISTOR

IRF511
276-2072

GENERAL DESCRIPTION

The efficient geometry and unique processing of the HEXFET design achieve very low on-state resistance combined with high transconductance and great device ruggedness.

This transistor also features all of the well established advantages of MOSFETs such as voltage control, freedom from second breakdown, very fast switching, ease of paralleling, and temperature stability of the electrical parameters.

FEATURES

- Fast switching
- Low drive current
- Ease of paralleling
- No second breakdown
- Excellent temperature stability

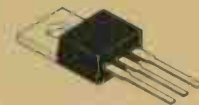
APPLICATIONS

- Switching power supplies
- Motor controls
- Inverters
- Choppers
- Audio amplifiers
- High energy pulse circuits

ABSOLUTE MAXIMUM RATINGS

Drain-Source Voltage, V_{DS}	60V
Drain-Gate Voltage [$R_{GS} = 1\text{ M}\Omega$], V_{DGR}	60V
Gate-Source Voltage, V_{GS}	$\pm 20\text{V}$
Continuous Drain Current, I_D @ $T_C \cong 86^\circ\text{C}$	3A
Pulsed Drain Current, I_{DM}	8A
Maximum Power Dissipation, P_D	20W
Linear Derating Factor	0.16W/K
Inductive Current, Clamped, I_{LM} (See Fig. 1) $L = 100\ \mu\text{H}$	8A
Operating Temperature Range, T_J	- 55 to + 150°C
Storage Temperature Range, T_{stg}	- 55 to + 150°C

PIN CONNECTION



SPECIAL TRANSISTORS (FET)

IRF511 276-2072

TEST CIRCUITS

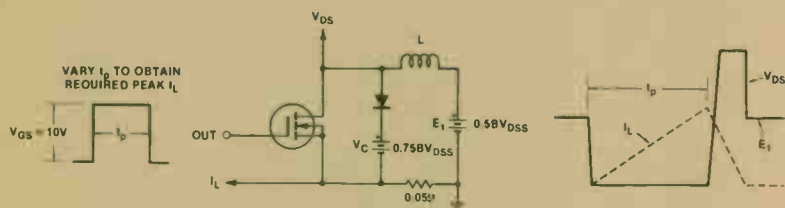


Figure 1—Clamped Inductive Test Circuit and Waveform

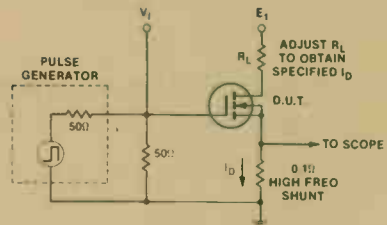
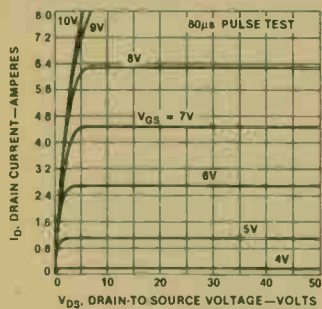
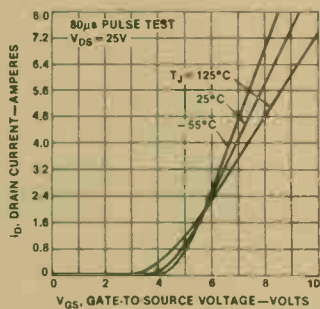


Figure 2—Switching Time Test Circuit

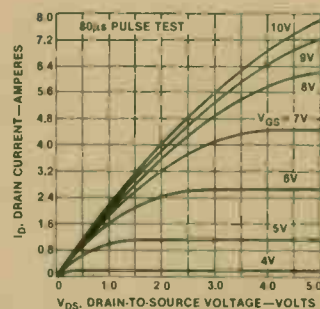
TYPICAL CHARACTERISTICS



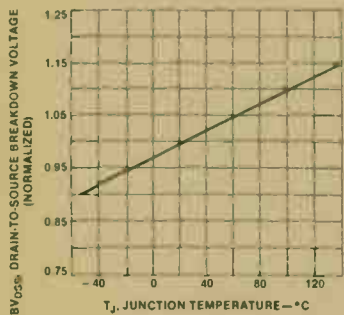
Output Characteristics



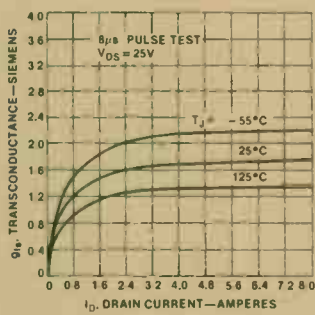
Transfer Characteristics



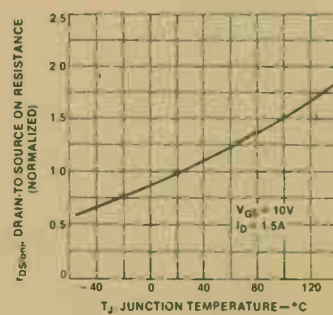
Saturation Characteristics



Breakdown Voltage vs Temperature



Transconductance vs Drain Current



Normalized On-Resistance vs Temperature

SILICON N-CHANNEL JUNCTION FIELD-EFFECT TRANSISTOR

2N3819
276-2035

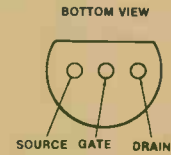
GENERAL DESCRIPTION

The 2N3819 is designed for general purpose small-signal applications. It features low capacitance between drain and gate terminals and an excellent high-frequency figure of merit. It achieves a low noise figure and good power gain with low crossmodulation and intermodulation.

ABSOLUTE MAXIMUM RATING ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Gate-Source Breakdown Voltage BV_{GSS}	40 V
Zero Gate Voltage Drain Current I_{DSS}	20 mA
Forward Transconductance g_{fs}	7.0 mmhos
Reverse Gate Leakage I_{GSS}	100 pA
"ON" Resistance r_{DS}	500 ohms
Pinch Off Voltage $V_{GS(OFF)}$	-6.0 V
Output Conductance g_{OS}	10 μ mhos
Feedback Capacitance C_{RSS}	0.9 pF
Input Capacitance C_{ISS}	4.0 pF
Power Gain $G_{p\beta}$	12 dB
Power Dissipation	360 mW

PIN CONNECTION

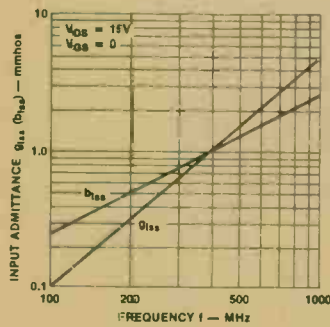


T092

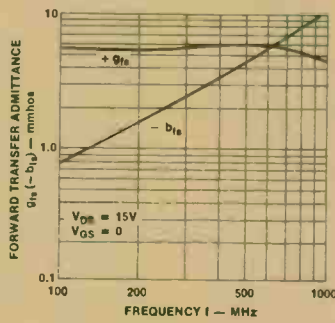


TYPICAL CHARACTERISTICS

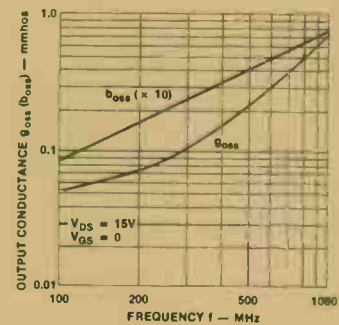
COMMON SOURCE



Input Admittance vs Frequency

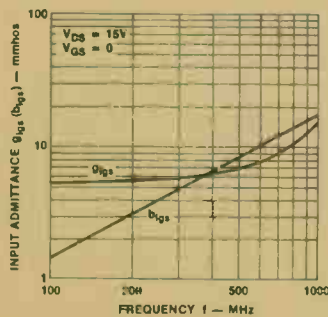


Forward Transfer Admittance vs Frequency

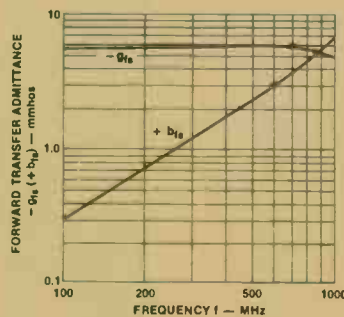


Output Conductance vs Frequency

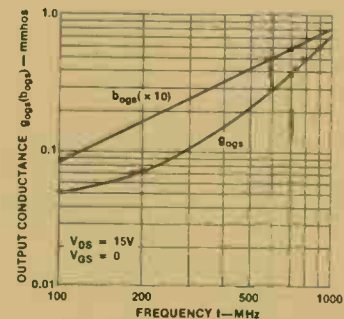
COMMON GATE



Input Admittance vs Frequency



Forward Transfer Admittance vs Frequency



Output Conductance vs Frequency

SPECIAL TRANSISTORS (FET)

BS170
276-2074

N-CHANNEL TMOS FET

GENERAL DESCRIPTION

This TMOS FET is designed for high-voltage, high-speed switching applications such as line drivers, relay drivers, CMOS logic, microprocessor or TTL-to-high voltage interface and high voltage display drivers.

FEATURES

- Fast Switching Speed— $t_{on} = t_{off} = 6.0$ ns Typ
- Low On-Resistance—5.0 Ohms Max
- Low Drive Requirement, $V_{GS(th)} = 3.0$ V Max
- Inherent Current Sharing Capability Permits Easy Paralleling of Many Devices

ABSOLUTE MAXIMUM RATINGS

Drain-Source Voltage (V_{DSS}) 60 V
 Gate-Source Voltage (V_{GS}) ± 20 V
 Drain Current—Continuous (1) (I_D) 0.5 A
 Total Power Dissipation @ $T_C = 25^\circ\text{C}$ (P_D) 0.83 W
 Operating and Storage Temperature Range -55°C to $+150^\circ\text{C}$
 (1) The Power Dissipation of the package may result in a lower continuous drain current.

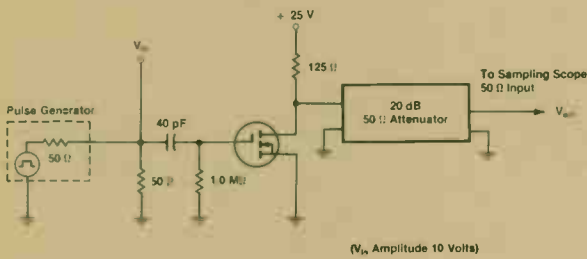
PIN CONNECTION



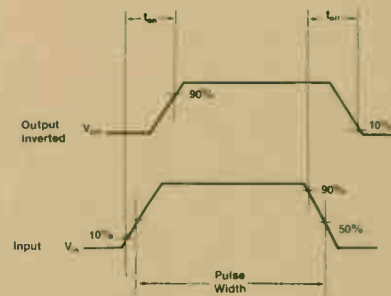
PIN 1 DRAIN
 PIN 2 GATE
 PIN 3 SOURCE

TYPICAL APPLICATIONS

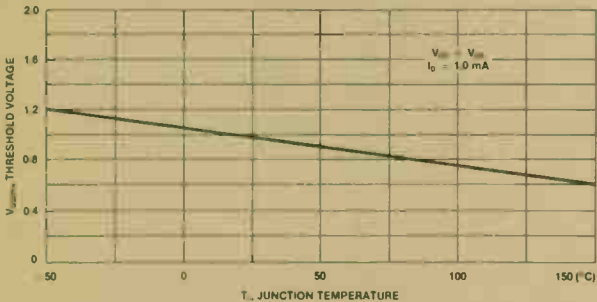
Switching Test Circuit



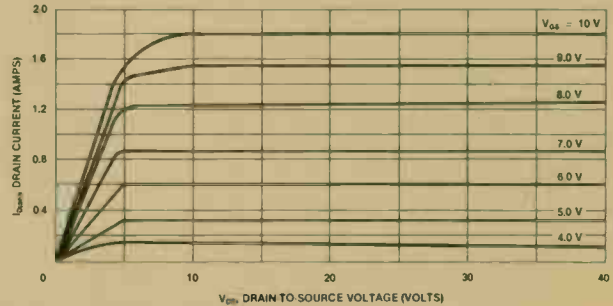
Switching Waveforms



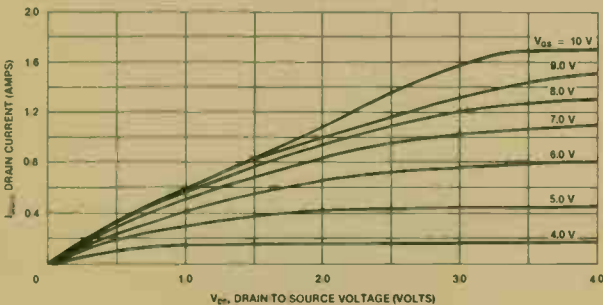
$V_{GS(th)}$ Normalized Versus Temperature



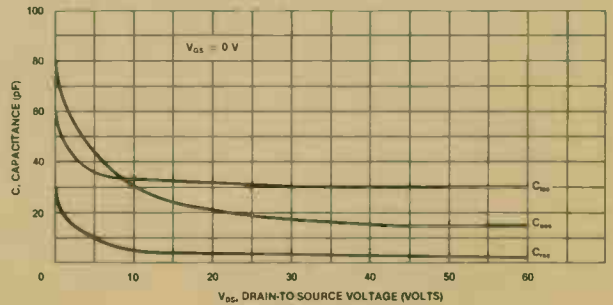
On-Region Characteristics



Output Characteristics



Capacitance Versus Drain-to-Source Voltage



TRANSIENT/SURGE ABSORBER

ERZ-C20DK201U
276-568
ERZ-C14DK201U
276-570

GENERAL DESCRIPTION

ZNR varistors are zinc oxide resistors whose resistance changes as a function of the applied voltage. The ZNR has a bilateral and symmetrical V-I characteristic curve and can therefore be used in circuits in place of back-to-back zener diodes. This gives your circuit clamping protection in either direction. The ZNR provides a highly reliable and economical way to protect against repeated high voltage transients and surges such as those produced by lightning, switching surges and noise spikes.

FEATURES

- Excellent clamping voltage characteristic and fast response time (< 50 nsec.) when subjected to impulse surges. Eliminates the discharge lag that is indicative of gap-type arrestors.
- Bilateral and symmetrical V-I characteristic curve. The ZNR can, therefore, be used both in AC and in DC circuits, for protection of either positive or negative transients.

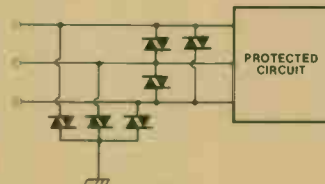
ABSOLUTE MAXIMUM RATING

Varistor Voltage (V-I @ 1mA DD) (165V 225V)	200V
Applied Voltage AC _{RMS}	130V
(DC)	170V
Clamping Voltage @ Test Current (8 × 20 μsec) V _C (V)	340V
IP (A) (276-568)	100A
IP (A) (276-570)	50A
Peak Pulse Current (8 × 20 μs) 1 Time (276-568)	6500A
(276-570)	4500A
Energy (J) (276-568)	70J
(276-570)	35J
Power (276-568)	1W
(276-570)	0.60W
Capacitance (PF @ 1kHz) (276-568)	2000PF
(276-570)	1000PF
Operating Ambient Temperature	-40° + 85°C
Storage Temperature	-40° + 125°C

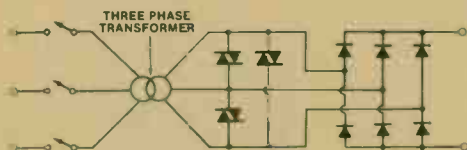
TYPICAL APPLICATIONS



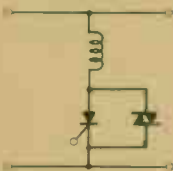
Single Phase Line Surge



Three Phase Line Surge



Transformer Inductive Surge by Primary Switch Off

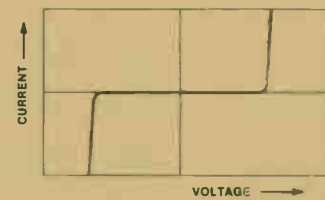


Solenoid Inductive Surge by Thyristor Switching

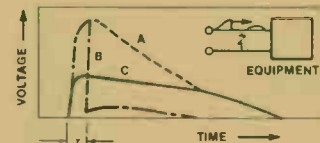


Solenoid Inductive Surge by Transistor Switching

PIN CONNECTION



V-I Characteristic Curve



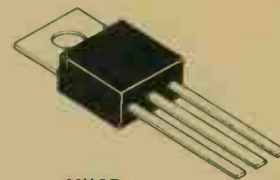
A: Original surge wave form
B: Clamping voltage using gap type arrestor
C: Clamping voltage using ZNR
τ: Discharge lag

Clamping Voltage Characteristics

SPECIAL PURPOSE DEVICES (SCR) (TRIAC)

276-1000
276-1020
276-1067

THYRISTORS



MU27

GENERAL DESCRIPTION

Thyristors and their trigger devices can take numerous forms, but they share these characteristics:

- They are "open circuits," capable of withstanding rated voltage until triggered.
- They become low-impedance current paths when triggered, and remain so, even after the trigger source is removed, until current through that path stops, or is reduced below a minimum "holding" level.

SCRs

Silicon-Controlled Rectifiers (SCRs) are Thyristors intended to switch load currents in one direction only, making them useful for DC and half-wave AC applications as well as full-wave applications, in which bidirectional current is routed in one direction through the SCR via a bridge rectifier.

TRIACs

Triacs are bidirectional Thyristors, in which a single trigger source turns the device on for load current in either direction. Because they do not require a bridge rectifier in order to handle full-wave AC, Triacs are useful in AC power applications that require full source power control capability to be applied to the load.

Catalog Number	I _{max} A	V _{max} V	I _{GT} (max) mA	V _{GT} (max) V	Case Style
276-1067	6	200	25	1.5	MU27
276-1020	6	400	25	1.5	MU27

Catalog Number	I _{max} A	V _{max} V	I _{GT} (max) mA	V _{GT} (max) V	Case Style
276-1000	6	400	50	2.5	MU27

OPTOELECTRONIC INDEX BY FUNCTION

FUNCTION	CATALOG NO.	PAGE NO.
DISPLAY	276-053	18
	276-064	17
	276-075	17
	276-081	15
DRIVER EMITTER	276-134	16
	176-142	20
	276-143	14
LED (BLINKING)	276-030	15
	276-036	15
LED INDICATORS (CHART)	276-018	13
	276-021	13
	276-022	13
	276-025	13
	276-026	13
	276-033	13
	276-037	13
	276-041	13
	276-065	13
	276-066A	13
	276-068	13
276-069	13	
LED (TRI-COLOR)	276-088	13
	276-035	19
PHOTOCELL	276-116	18
PHOTOTRANSISTOR	276-145	19
SOLAR CELL	276-124	20

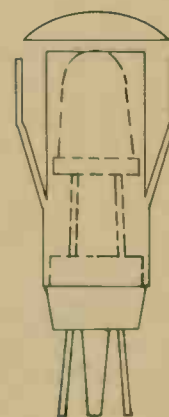


FIGURE 10
 Super high brightness LED with holder

OPTOELECTRONIC (LED) LED INDICATORS

Catalog Number	Direct Commercial Equivalent	Peak Wave Length nM	Color	Forward Voltage V_F (V)	Reverse Voltage V_R (V)	Max DC Forward Current I_F (MA)	Max Pwr Diss P_D (MW)	Fig. No.
276-018	PR5534S	700	RED	2.5	4	100	75	4
276-021	SLP-236B	565	YELLOW	2.8	3	30	70	5
276-022	SLP-236B	565	GREEN	2.8	3	30	70	5
276-025	R9-56	—	RED/GREEN	2.0	3.0	10	—	7
276-026	—	650	RED	—	3	50	100	2
276-033	TLR-147	700	RED	2.1	4	35	100	1
276-037	SLP-235B	565	GREEN	2.8	3	30	70	4
276-041	—	700	RED	1.75	3	70	140	3
276-065	369HHD	697	RED	1.8	5	20	75	8
276-066A	SLA-591LT3	660	RED	2.5 (@ 20 MA)	4	50	100	9
276-068	—	700	RED	1.9	—	30	—	6
276-069	—	560	GREEN	2.1	—	30	—	6
276-088	SLP-888A	660	RED	2.2 (@ 2 MA)	3	20	70	10



FIGURE 1

Miniature LED with diffused lens. This LED is compatible with most TTL and transistor circuits. It features a Fresnel lens design.



FIGURE 2

This LED features a frosted diffused lens in a plastic encapsulant. When the device is on, it appears as a large, soft light source, making it ideally suited for front panel applications.



FIGURE 3

This device is a jumbo LED with a diffused lens. It can be used in applications such as pilot and indicator lamps.



FIGURE 4

Subminiature LED with diffused lens. This device has solid state reliability and is compatible with most TTL and transistor circuits.

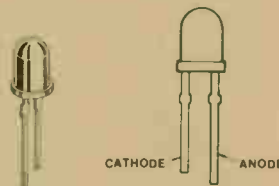


FIGURE 5

This is a frame type solid state LED with a diffused lens.

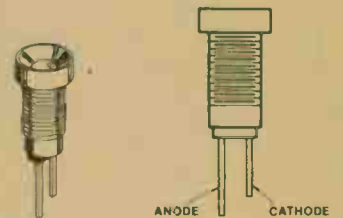


FIGURE 6

This is a subminiature LED indicator with polished chrome reflective holder.

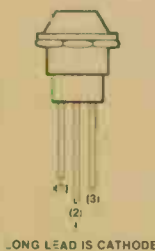


FIGURE 7

This is a three terminal LED. The light color radiates "red" when terminals 2 and 3 are used. Green light radiates when terminals 1 and 2 are used.

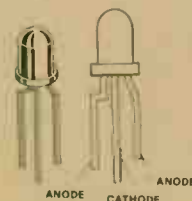


FIGURE 8

This is a jumbo red LED. It consists of two LED elements connected cathode to cathode in a 10mm diameter housing.



FIGURE 9

This is a high-brightness red LED. It is many times brighter than ordinary LEDs, yet still runs cool.

TIL906-1
276-143

**P-N GALLIUM ALUMINUM ARSENIDE
INFRARED- EMITTING DIODE**

GENERAL DESCRIPTION

This is a P-N Gallium Aluminum Arsenide Infrared-Emitting diode designed to emit near infrared radiation when forward biased. Its output is spectrally compatible with silicon sensors and has a high power output with a 20° beam angle.

ABSOLUTE MAXIMUM RATINGS

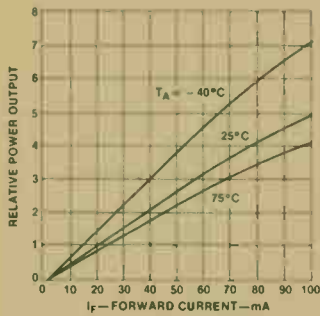
Forward Voltage (Static) (VF)	1.75 V
Reverse Voltage (VR)	3 V
Continuous Forward Current at (Or Below)	
25°C Free-Air Temperature	100 mA
Peak Forward Current (See Note 1)	2 A
Reverse Current (VR = 3 V)	100 μA
Radiant Power Output (PO) (IF = 20 mA)	1.5 MW
Emission Beam Angle Between	
Half-Intensity Points	20°
Wave Length at Peak Emission (IF = 20 mA)	880 nM
Operating Temperature Range	-40°C To 80°C
Storage Temperature Range	-40°C to 100°C

NOTE: 1. This value applies for $t_w \leq 10 \mu s$, $f \leq 1 \text{ kHz}$. See Figure 1.

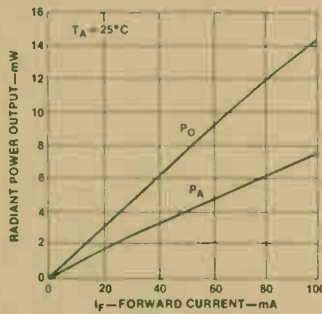
FEATURES

- High power output With a 20° beam angle
- Output spectrally compatible with silicon sensors

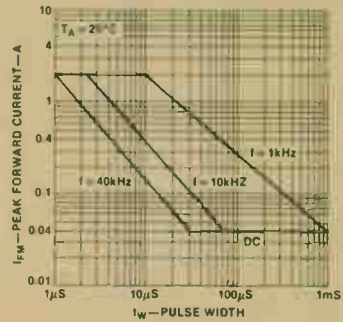
TYPICAL CHARACTERISTICS



Relative Power Output vs Forward Current

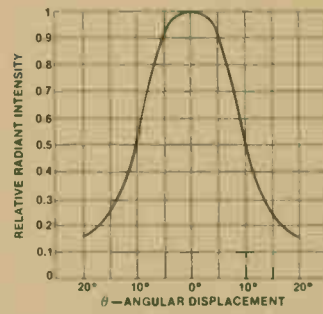


Radiant Power Output vs Forward Current

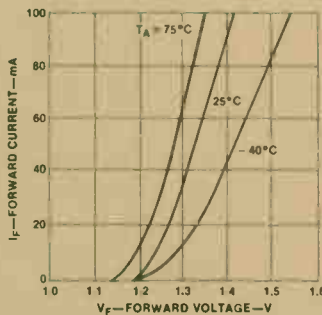


Peak Forward Current vs Pulse Width

Figure 1

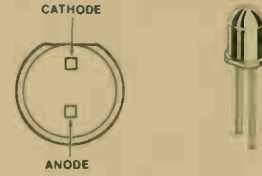


Relative Radiant Intensity vs Angular Displacement



Forward Conduction Characteristics

PIN CONNECTION



MOC3010
276-134

OPTOCOUPLER TRIAC DRIVER



GENERAL DESCRIPTION

This device consists of a gallium-arsenide infrared emitting diode, optically coupled to a silicon bilateral switch and is designed for applications requiring isolated triac triggering, low-current isolated ac switching, high electrical isolation (to 7500 V peak), high detector standoff voltage, small size, and low cost.

INFRARED EMITTING DIODE MAXIMUM RATINGS

Reverse Voltage	3.0 volts
Forward Current—Continuous	50 mA
Total Power Dissipation @ TA = 25°C	100 mW

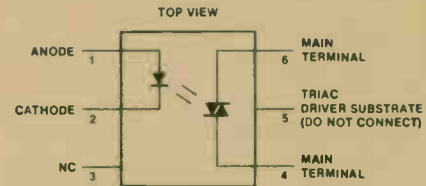
OUTPUT DRIVER MAXIMUM RATINGS

Off-State Output Terminal Voltage	250 Volts
On-State RMS Current TA = 25°C	100 mA
(Full Cycle, 50 to 60 Hz TA = 70°C)	50 mA
Peak Nonrepetive Surge Current	1.2 A
(PW = 10ms, DC = 10%)	
Total Power Dissipation @ TA = 25°C	300 mW
Derate above 25°C	4.0 mW/°C

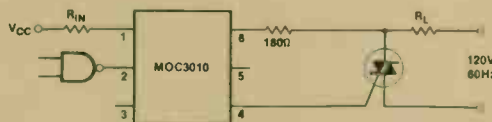
TOTAL DEVICE MAXIMUM RATINGS

Isolation Surge Voltage (1s)	7500 Vac
(Peak ac Voltage, 60 Hz, 5 Second Duration)	
Total Power Dissipation	330 mW
Junction Temperature Range	-40 to +100°C
Ambient Operating Temperature Range	-40 to +70°C
Storage Temperature Range	-40 to +150°C
Soldering Temperature (10s)	260°C

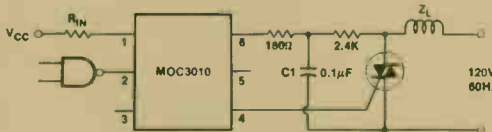
PIN CONNECTION



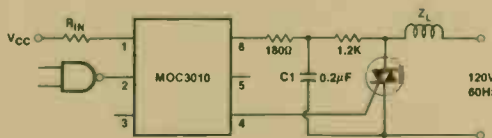
APPLICATIONS



Resistive Load

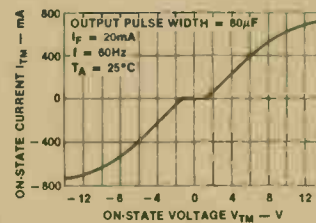


Inductive Load with Sensitive Gate Triac
($I_{GT} < 15mA$)

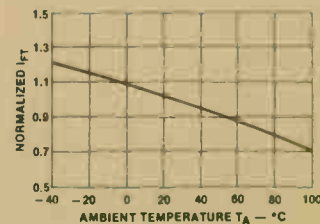


Inductive Load with Non-Sensitive Gate Triac
($15mA < I_{GT} < 50mA$)

TYPICAL CHARACTERISTICS



On-State Current vs On-State Voltage



Trigger Current vs Temperature



COMMON CATHODE DISPLAY

MAN74
276-075

GENERAL DESCRIPTION

This is a rec .3 inch common cathode RHDP Display device with a brightness or luminous intensity (Per Seq. MIN) of 125 μ cd @ 10mA.

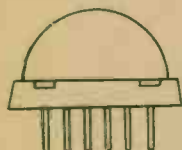
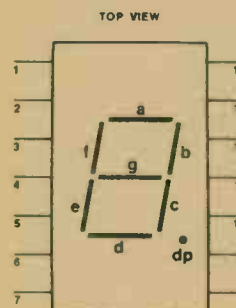
APPLICATIONS

- Instruments
- Test Equipment
- Office Machines
- Computers
- Automobiles
- Clocks Radios
- Communication Equipment
- Calculators
- CB Radios

ABSOLUTE MAXIMUM RATINGS

Forward Voltage 2 V
 Forward Current 20 mA
 Power (Pd) 700 mW
 Wave Length 660 nM
 Brightness/Luminous Intensity @ 10mA 125 μ cd

PIN CONNECTION



BIG HI-EFFICIENCY RED LED

EL-811HR
276-064

GENERAL DESCRIPTION

The 276-064 is a 0.79" diameter hi-efficiency Red LED. This device is ideal for a variety of applications where a large bright source is required.

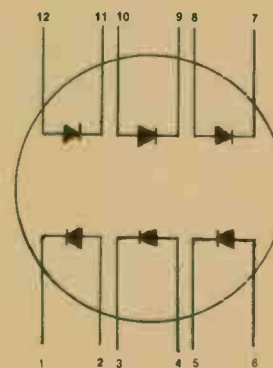
ABSOLUTE MAXIMUM RATINGS

Reverse Voltage 5 V
 Reverse Current ($V_r = 5V$) 10 μ A
 Operating Temperature Range -40°C To 85°C
 Storage Temperature Range -40°C To 100°C
 Lead Soldering Temperature 260°C For 5 Seconds
 [1.6mm (0.063 inch) From Body]
 Spectral Line Half-Width ($A\lambda$) 45nm
 Power Dissipation (Pd) 100mW
 Peak Forward Current (duty 1/10, 1KHz) I_f (Peak) 160mA
 Recommend Operating Current I_f (Rec) 20mA
 Average Luminous Intensity 1.2 ($I_f = 10mA$) I_v 25 μ cd
 Luminous Intensity Matching Ratio I_v-m 2:1
 Forward Voltage ($I_f = 20mA$) V_f 2.8 V

FEATURES

- 0.79" (20.0mm) big LED.
- Graphic stacking allowable.
- Suitable for multiplex operation.
- High luminous intensity.
- Solid state reliability.

PIN CONNECTION



PIN	FUNCTION
1	CATHODE
2	ANODE
3	CATHODE
4	ANODE
5	CATHODE
6	ANODE
7	CATHODE
8	ANODE
9	CATHODE
10	ANODE
11	CATHODE
12	ANODE

OPTOELECTRONIC (DISPLAY) (PHOTOCELL)

276-053 0.3" SOLID STATE SEVEN SEGMENT DISPLAY



GENERAL DESCRIPTION

The 276-053 is a common anode LED numeric display. The large 0.3" high character size generates a bright, continuously uniform 7 segment display. Designed for viewing distances of up to 10 feet, this single digit display has been human engineered to provide a high contrast ratio and wide viewing angle.

FEATURES

- Fits 14 pin DIP socket
- Excellent character appearance—continuous uniform segments; wide viewing angle; high contrast
- IC compatible—1.6 V per segment
- Standard 0.3" DIP lead configuration; PC board or standard socket mountable
- Both left and right decimal points

APPLICATIONS

- Electronic calculators
- TVs
- Radios
- Frequency counters
- Digital clocks

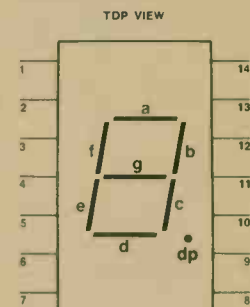
RADIANT CHARACTERISTICS (IF=20mA) T_A=25°C

Luminous Intensity..... 250 mcd
 Wavelength (Peak)..... 655 nm

ABSOLUTE MAXIMUM RATINGS

Power Dissipation T_A=25°C..... 400 mW
 Average Forward Current/Segment or Decimal Pt. T_A=25°C..... 25 mA
 Peak Forward Current/Segment or Decimal Pt. T_A=12°C
 (Pulse Duration 500µs)..... 150 mA
 Reverse Voltage per Segment or Decimal Pt..... 6 V
 Operating Temperature Range..... -20 to +85°C
 Storage Temperature Range..... -20 to +85°C
 Max Solder Temperature 1/16" Below Seating Plane (t ≤ 5 sec.)..... 230°C

PIN CONNECTION



COMMON ANODE	
PIN	FUNCTION
1	CATHODE a
2	CATHODE f
3	ANODE
4	NO PIN
5	NO PIN
6	CATHODE dp
7	CATHODE e
8	CATHODE d
9	NO CONNECTION
10	CATHODE c
11	CATHODE g
12	NO PIN
13	CATHODE b
14	ANODE

ALTERNATE CONNECTION	
PIN	FUNCTION
1	NO PIN
2	ANODE
3	CATHODE-f
4	CATHODE-g
5	CATHODE-e
6	CATHODE-d
7	NO PIN
8	NO PIN
9	ANODE
10	CATHODE-dp
11	CATHODE-c
12	CATHODE-b
13	CATHODE-a
14	NO PIN

276-116 CADMIUM SULPHIDE PHOTOCELL

GENERAL DESCRIPTION

A cadmium sulphide photo cell is a light variable resistor which is most sensitive in the green to yellow portion of the light spectrum. With it you can use light to control many electronic devices. Max. resistance .5 meg., min. resistance 100 ohms, max. voltage 170 V, max. wattage .2 watts, rugged epoxy case.

APPLICATIONS

- Night light
- Light control
- Burglar alarm
- Relay

SPECIFICATIONS

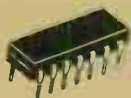
• Shape..... Round
 • Sensitive Area..... .07 sq. in.
 • Weight..... 1.56 gms.
 • Resistance at 1 Ftc (2870°K)..... 1.7k Ohms . 40%
 • Typical Resistance 100 Ftc (2870°K)..... 100 Ohms
 • Resistance Dark Minimum (1 Minute)..... 0.5 Megohms

ABSOLUTE MAXIMUM RATINGS

Max. Applied Voltage (ac or dc)..... 170 V peak
 Max. Power Dissipation at 25°C..... 2 watts
 Power Derating..... Linearly to 0 @ 75°C
 Operating Temp. Range..... -40 to +75°C

CONNECTIONS





TRI-COLOR LIGHT EMITTING DIODE

XC-5491
276-035

GENERAL DESCRIPTION

The XC-5491 tri-state LED provides red, green, and yellow emission in the same package. This LED is a popular .200 diameter, two-lead package containing a red and green LED chip in inverse parallel. By reversing the polarity of the applied current, the LED will emit red or green light while an AC voltage results in yellow light. The chips used in the XC-5491 are brightness matched so that the light output is uniform. This eliminates the necessity for the special drive circuits previously required with tri-state lamps.

These lamps provide the designer with the capability of efficiently displaying three functions with one indicator. This reduces the number of front panel indicators and simplifies design.

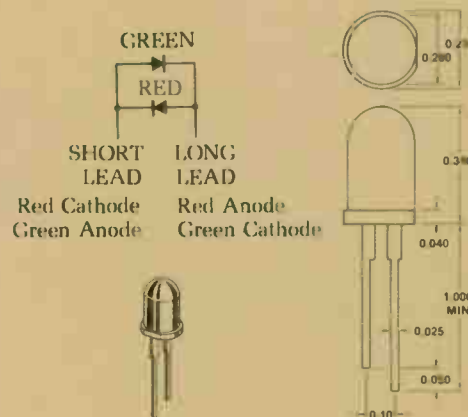
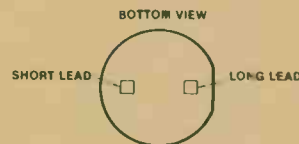
FEATURES

- 3 States—red, green, and yellow
- Equal brightness in all three colors
- Popular T-1 1/4 size package
- Wire wrappable leads

ABSOLUTE MAXIMUM RATINGS

Forward Current	25 mA
Peak Reverse Voltage	5V
Power Dissipation	100 mW
Operating Temperature Range	-55 to +85°C
Lead Solder Temperature	260°C

PIN CONNECTION



INFRARED PHOTOTRANSISTOR

TIL414
276-145

GENERAL DESCRIPTION

The TIL414 is an NPN silicon phototransistor in A T-1 3/4 style case. It provides high speed and high photosensitivity, suitable for IR switching applications.

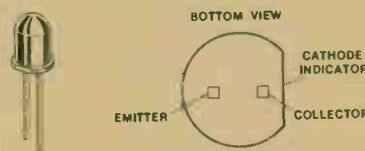
ABSOLUTE MAXIMUM RATINGS

Collector-Emitter Voltage	50 V
Emitter-Collector Voltage	7 V
Power Dissipation	50 mW
Operating Temperature	-40° to +100°C

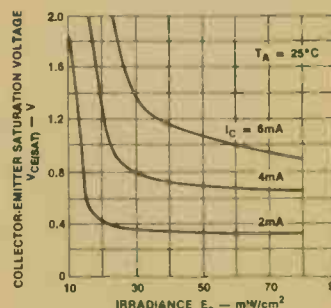
ELECTRICAL CHARACTERISTICS (Typical)

Dark Current ($V_{CE} = 30 V$)	25 nA
Light Current ($V_{CE} = 5 V \bullet E_{IR} = 20mW/cm^2$)	7 mA
Collector-Emitter Saturation	0.4 V
Rise Time	8 μs
Fall Time	6 μs

PIN CONNECTION



TYPICAL CHARACTERISTICS



Collector-Emitter Saturation Voltage vs Irradiance

OPTOELECTRONIC (EMITTER)(SOLAR CELL)

276-142

INFRARED EMITTER AND DETECTOR

GENERAL DESCRIPTION

The 276-142 is a pair consisting of an infrared photodetector and an infrared-emitting diode. The diode is capable of emitting radiant energy in the infrared region of the spectrum.

FEATURES

- Spectrally and mechanically matched
- High power efficiency . . . typically 5 percent at 25 °C

ABSOLUTE MAXIMUM RATINGS

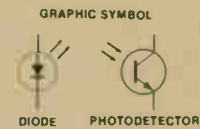
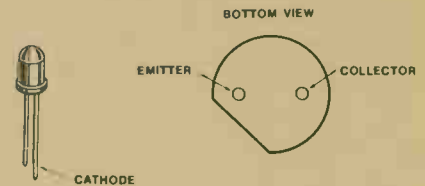
Photodetector

Collector-Emitter Voltage	20V
Collector Current	25mA
Continuous Device Dissipation at (or below) 25°C Free-Air Temperature	50mW
Operating Free-Air Temperature Range	-40 to +80 °C
Storage Temperature Range	-40 to +85 °C
Lead Temperature 1/16 Inch from Case for 5 Seconds	240 °C

Infrared-Emitting Diode

Reverse Voltage	2V
Continuous Forward Current	40mA
Radiant Power Output	0.5mW
Wavelength at Peak Emission	915mm

PIN CONNECTION



276-124

2.5×5cm SILICON SOLAR CELL

GENERAL DESCRIPTION

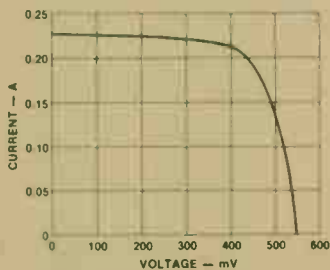
A solar cell is a silicon semiconductor device which converts light energy directly to electricity. A typical 2.5×5cm cell will produce 0.42 volt and up to .18 amp of usable current. The power generated is affected by the load resistance (circuit powered by cell) strength of sunlight and temperature.

Be extremely careful when soldering leads. Use only a very fine wire (#26 or thinner) and use a small soldering iron (less than 50 watts). Solar cells may be connected in series to produce more voltage and in parallel for more current.

ABSOLUTE MAXIMUM RATINGS

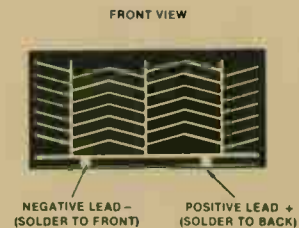
Voltage (Open Circuit):	0.55V
Current (short circuit):	0.2A
(Test conditions: Full sunlight at noon on a clear day at 25 °C (76 °F))	

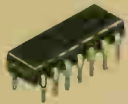
TYPICAL CHARACTERISTICS



Current vs Voltage

CONNECTIONS





QUAD TWO-INPUT NOR GATE

4001
276-2401

GENERAL DESCRIPTION

The 4001 quad 2-Input NOR gate is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. These complementary MOS logic gates find primary use where low power dissipation and/or high noise immunity is desired.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

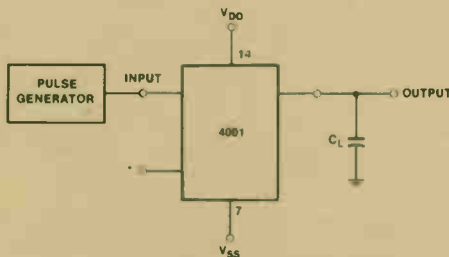
FEATURES

- Quiescent current = 0.5 nA typ/pkg @ 5 Vdc
- Noise immunity = 45% of V_{DD} typical
- Diode protection on all inputs
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Single supply operation—positive or negative
- High fanout: > 50
- Input impedance = 10^{12} ohms typical
- Logic swing independent of fanout

ABSOLUTE MAXIMUM RATINGS (Voltages referenced to V_{SS})

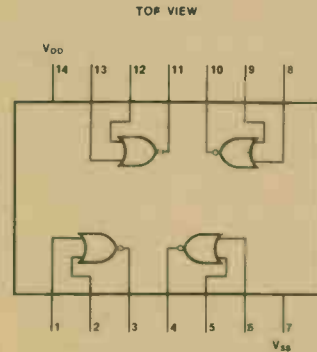
DC Supply Voltage	.....	- 0.5 to + 16 Vdc
Input Voltage All Inputs	.....	- 0.5 to V_{DD} + 0.5 Vdc
DC Current Drain per Pin	.....	10 mAdc
Operating Temperature Range	.....	- 40 to + 85°C
Storage Temperature Range	.....	- 65 to + 150°C

SWITCH TIME TEST CIRCUIT

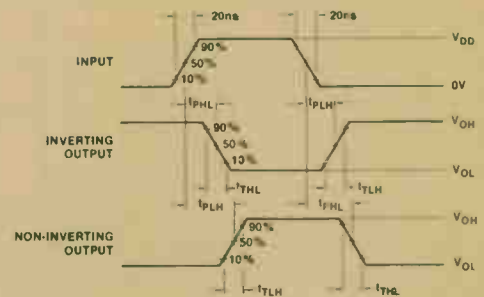


*All unused inputs of OR, NOR gates must be connected to V_{SS} .

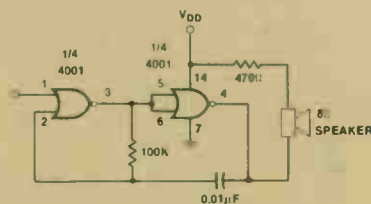
PIN CONNECTION



SYNC TIMING WAVEFORMS

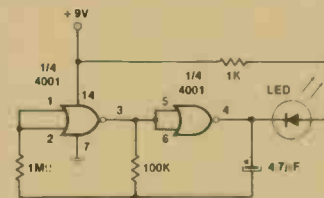


TYPICAL APPLICATIONS



Tone frequency is about 1kHz

Gated Tone Source



LED flashes 1-2 times/second

LED Flasher

4011
276-2411

QUAD TWO-INPUT NAND GATE

GENERAL DESCRIPTION

The 4011 is constructed with P and N channel enhancement mode devices in a single monolithic structure (Complementary MOS). Their primary use is where low power dissipation and/or high noise immunity is desired.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

FEATURES

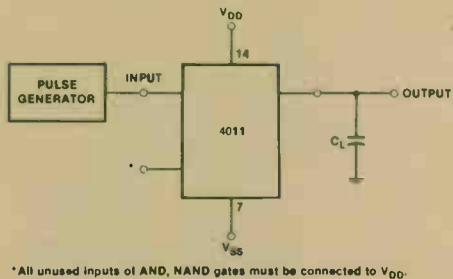
- Quiescent current = 0.5 nA typ/pkg @ 5 Vdc
- Noise immunity = 45% of V_{DD} typical
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Double diode protection on all inputs

ABSOLUTE MAXIMUM RATINGS

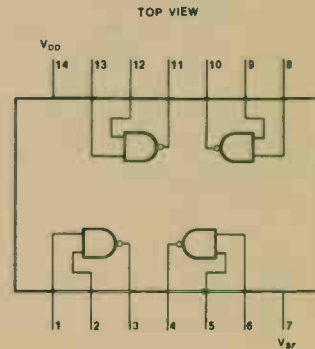
(Voltages referenced to V_{SS})

DC Supply	.....	- 0.5 to + 16 Vdc
Input voltage, All Inputs	.....	- 0.5 to $V_{DD} + 0.5$ Vdc
DC Current Drain per Pin	.....	10 mAdc
Operating Temperature Range	.....	- 40 to + 85°C
Storage Temperature Range	.....	- 65 to + 150°C

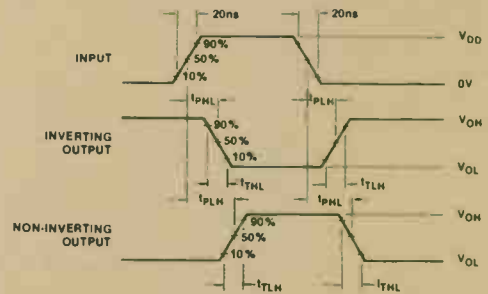
SWITCH TIME TEST CIRCUIT



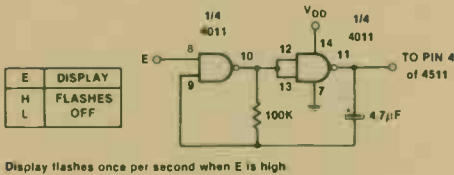
PIN CONNECTION



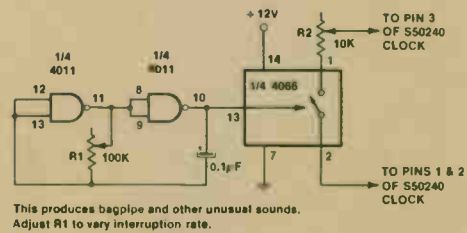
SYNC TIMING WAVEFORMS



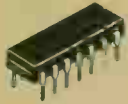
TYPICAL APPLICATIONS



Display Flasher



Special Effects



DUAL TYPE D FLIP-FLOP

4013
276-2413

GENERAL DESCRIPTION

The 4013 dual type D flip-flop is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. Each flip-flop has independent Data (D), Direct Set (S), Direct Reset (R), and Clock (C) inputs and complementary outputs (Q and \bar{Q}). These devices may be used as shift register elements or as type T flip-flops for counter and toggle applications.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

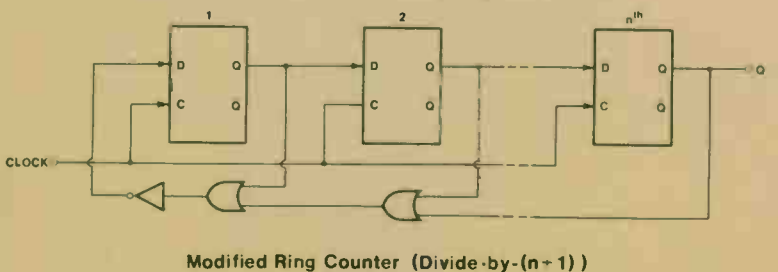
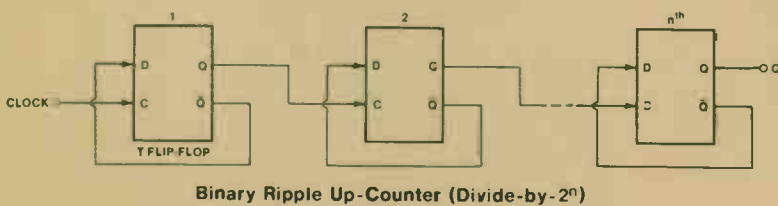
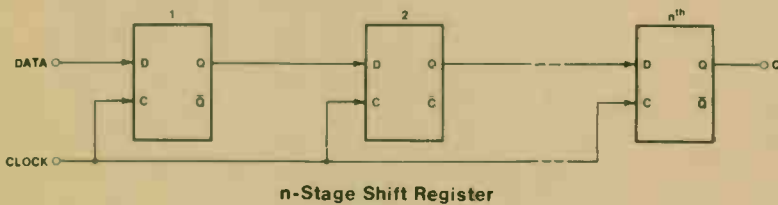
FEATURES

- Static operation
- Quiescent current = 2.0 nA/package typical @ 5 Vdc
- Noise immunity = 45% of V_{DD} typical
- Diode protection on all inputs
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Single supply operation
- Toggle rate = 4 MHz typical @ 5 Vdc
- Logic edge-clocked flip-flop design—logic state is retained indefinitely with clock level either high or low; information is transferred to the output only on the positive-going edge of the clock pulse.
- Capable of driving two-low-power TTL loads, one low-power schottky TTL load or two HTL loads over the rated temperature range.

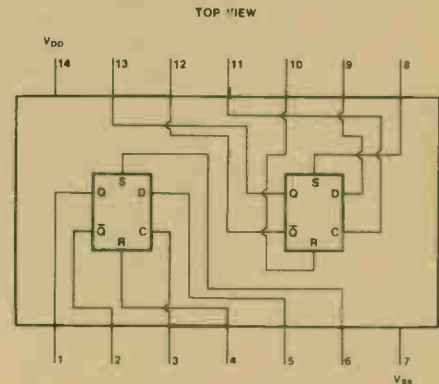
ABSOLUTE MAXIMUM RATINGS (Voltages referenced to V_{SS})

DC Supply Voltage	-0.5 to +16 Vdc
Input Voltage, All Inputs	-0.5 to $V_{DD} + 0.5$ Vdc
DC Current Drain per Pin	10 mA
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-65 to +150°C

TYPICAL APPLICATIONS



PIN CONNECTION

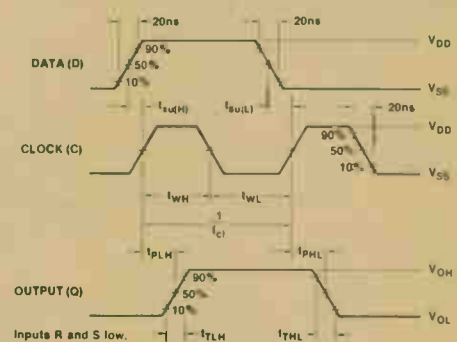


TRUTH TABLE

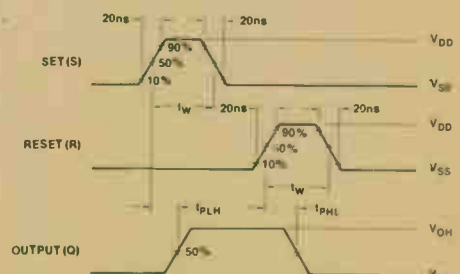
Clock†	INPUTS			OUTPUTS	
	Data	Reset	Set	Q	\bar{Q}
—	L	L	L	L	H
—	H	L	L	H	L
—	X	L	L	No Change	
X	X	H	L	L	H
X	X	L	H	H	L
X	X	H	H	H	H

X = Don't Care H = High Level
L = Low Level † = Level Change

SYNC TIMING WAVEFORMS



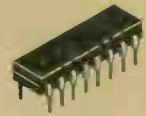
Data, Clock, and Output



Set, Reset, and Output

4017
276-2417

DECADE COUNTER/DIVIDER



GENERAL DESCRIPTION

The 4017 is a five-stage Johnson decade counter with built-in code converter. High-speed operation and spike-free outputs are obtained by use of a Johnson decade counter design. The ten decoded outputs are normally low, and go high only at their appropriate decimal time period. The output changes occur on the positive-going edge of the clock pulse. This part can be used in frequency division applications as well as decade counter or decimal decode display applications.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

FEATURES

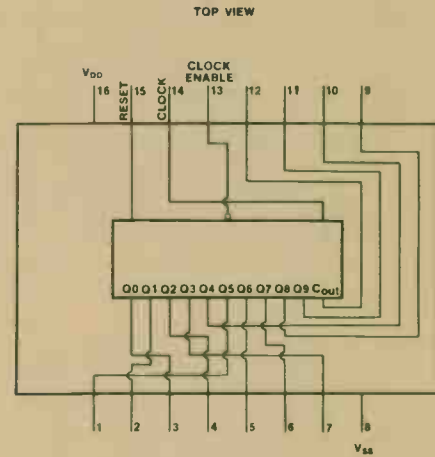
- Fully static operation
- DC clock input circuit allows slow rise times
- Carry out output for cascading
- 12 MHz (typical) operation @ $V_{DD} = 10 \text{ Vdc}$
- Quiescent current = 5.0 nA/package typical @ 5 Vdc
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Capable of driving two low-power TTL loads, one low-power schottky TTL load or two HTL loads over the rated temperature range

ABSOLUTE MAXIMUM RATINGS

(Voltages referenced to V_{SS})

DC Supply Voltage	-0.5 to +16 Vdc
Input Voltage, All Inputs	-0.5 to V_{DD} + 0.5 Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-65 to +150°C

PIN CONNECTION

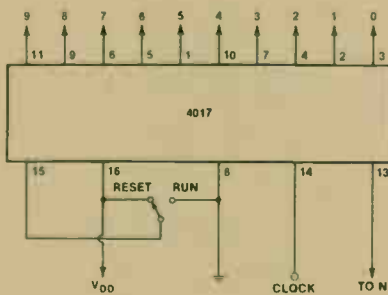


TRUTH TABLE (Positive Logic)

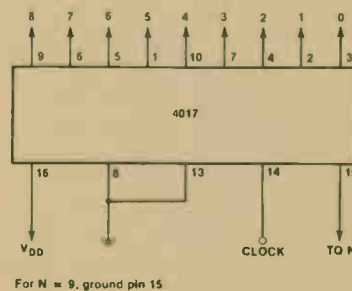
Clock	Clock Enable	Reset	Decode Output = n
L	X	L	n
X	H	L	n
X	X	H	QL
⎯	L	L	n + 1
⎯	X	L	n
X	⎯	L	n
1	⎯	L	n + 1

X = Don't Care If n < 5 Carry = "H".
Otherwise = "L".
L = Low Level H = High Level

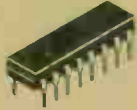
TYPICAL APPLICATIONS



Count to N and Halt



Count to N and Recycle



INVERTING HEX BUFFER

4049
276-2449

GENERAL DESCRIPTION

The 4049 hex inverter/buffer is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. These complementary MOS devices find primary use where low power dissipation and/or high noise immunity is desired. These devices provide logic-level conversion using only one supply voltage, V_{CC} . The input-signal high level (V_{IH}) can exceed the V_{CC} supply voltage for logic-level conversions. Two TTL/DTL loads can be driven when the devices are used as CMOS-to-TTL/DTL converters ($V_{CC} = 5.0\text{ V}$, $V_{OL} \leq 0.4\text{ V}$, $I_{OL} \geq 3.2\text{ mA}$). Note that pin 16 is not connected internally on this device; consequently connections to this terminal will not affect circuit operation.

FEATURES

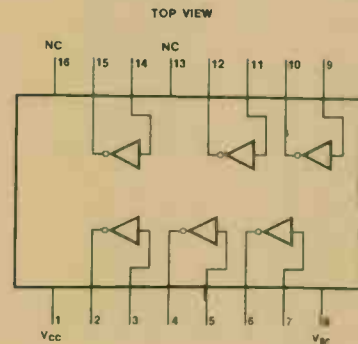
- High source and sink currents
- High-to-low level converter
- Quiescent current = 2.0 nA/package typical @ 5 Vdc
- Supply voltage range = 3.0 Vdc to 16 Vdc

ABSOLUTE MAXIMUM RATINGS

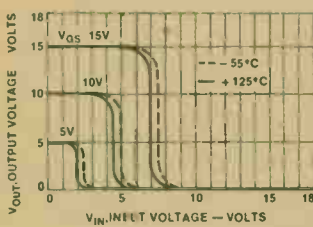
(Voltages referenced to V_{SS} , Pin 8)

DC Supply Voltage	-0.5 to +16 Vdc
Input Voltage, All Inputs	-0.5 to $V_{DD} + 0.5\text{ Vdc}$
DC Current Drain per Input Pin	10 mAdc
DC Current Drain per Output Pin	45 mAdc
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-65 to +150°C

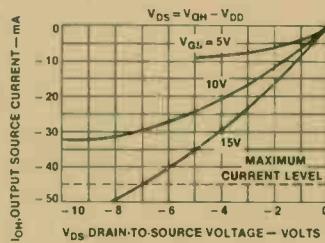
PIN CONNECTIONS



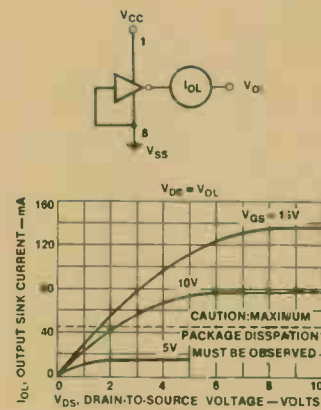
TYPICAL CHARACTERISTICS



Output Voltage vs Input Voltage

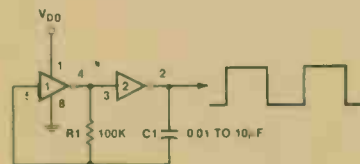


Output Source Current vs Drain-To-Source Voltage



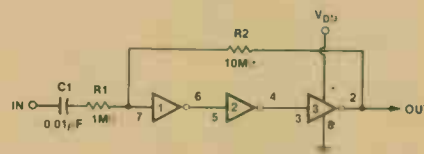
Output Sink Current vs Drain-To-Source Voltage

TYPICAL APPLICATIONS



1,2 = 1/3 4049
Pulse Rate = 1/1.4R1C1

Clock Pulse Generator

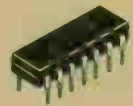


1,2,3 = 1/2 4049
Note that the inverters are used in a LINEAR mode
Gain = R2/R1

Linear IOX Amplifier

4066
276-2466

QUAD BILATERAL SWITCH



GENERAL DESCRIPTION

The 4066 consists of four independent switches capable of controlling either digital or analog signals. This Quad Bilateral Switch is useful in signal gating, chopper, modulator, demodulator, and CMOS logic implementation.

This device contains circuitry to protect the inputs against damage due to high static voltages or electrical fields; however, it is advised that normal precautions be taken to avoid applications of any voltage higher than maximum rated voltages to this high impedance circuit.

For proper operation it is recommended that V_{IN} and V_{OUT} be constrained to the range $V_{SS} \leq (V_{IN} \text{ or } V_{OUT}) \leq V_{DD}$.

Unused inputs must always be tied to the appropriate logic voltage level (e.g. either V_{SS} or V_{DD}).

FEATURES

- Wide supply voltage range—3V to 15V
- High noise immunity—0.45 V_{DD} typ
- Wide range of digital and analog switching— $\pm 7.5 V_{PEAK}$
- "ON" resistance for 15V operation—80 Ω typ
- Matched "ON" resistance over 15V signal input— $\Delta R_{ON} = 5\Omega$ typ
- "ON" resistance flat over peak-to-peak signal range
- High "ON"/"OFF" output voltage ratio—65 dB typ
- High degree of linearity—0.4% distortion typ
- Extremely low "OFF" switch leakage—0.1 nA typ
- Extremely high control input impedance— $10^{12}\Omega$ typ
- Low crosstalk between switches—50 dB typ
- Frequency response, switch "ON"—40 MHz typ

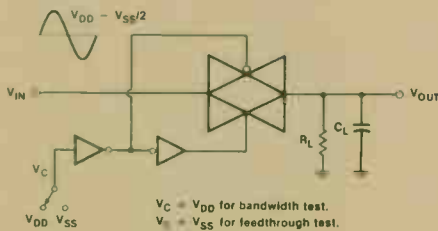
APPLICATIONS

- Analog signal switching/multiplexing
 - Signal gating
 - Squelch control
 - Chopper
 - Modulator/Demodulator
 - Commutating switch
- Digital signal switching/multiplexing
- CMOS logic implementation
- Analog-to-digital/digital-to-analog conversion
- Digital control of frequency, impedance, phase, and analog-signal gain

ABSOLUTE MAXIMUM RATINGS

Supply Voltage	−0.5V to +18V
Input Voltage	−0.5 to $V_{DD} + 0.5V$
Package Dissipation	500 mW
Operating Temperature Range	−40 to +85°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

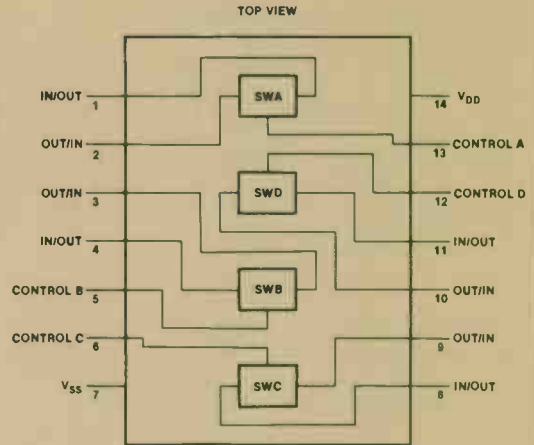
TYPICAL APPLICATIONS



Bandwidth and Feedthrough Attenuation

$V_C = V_{DD}$ for bandwidth test.
 $V_C = V_{SS}$ for feedthrough test.

PIN CONNECTION

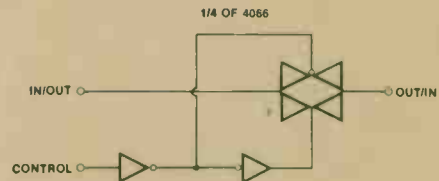


TRUTH TABLES

CONTROL	SWITCH
0	OFF
1	ON

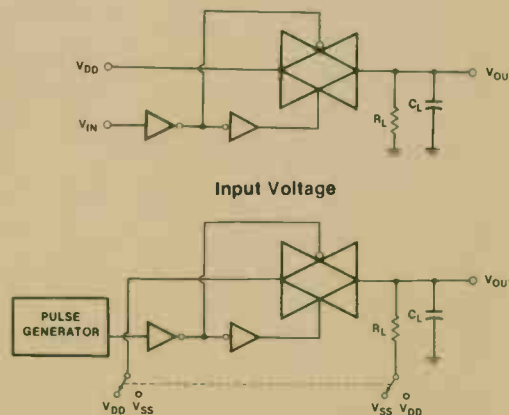
$V_{CONTROL}$	V_{IN} TO V_{OUT} RESISTANCE
V_{SS}	$> 10^9$ ohms typical
V_{DD}	3×10^2 ohms typical

LOGIC DIAGRAM



LOGIC DIAGRAM RESTRICTIONS

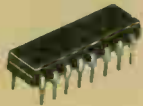
$V_{SS} = V_{IN} = V_{DD}$
 $V_{SS} = V_{OUT} = V_{DD}$



Propagation Delay Time, Control to Output

MELODY GENERATOR

UM3482
276-1797



GENERAL DESCRIPTION

The UM3482A is a mask-ROM-programmed multi-instrument melody generator, implemented in the CMOS technology. It is designed to play the melody according to the previously programmed information and is programmed with 12 songs with 3 instrument sounds, the piano, the organ and the mandolin. The UM3482A will play the following songs: AMERICAN PATROL, RAB-BITS, OH, MY DARLING CLEMENTINE, BUTTERFLY, LONDON BRIDGE IS FALLING DOWN, ROW, ROW, ROW YOUR BOAT, ARE YOU SLEEPING, HAPPY BIRTHDAY, JOY SYMPHONY, HOME SWEET HOME, WIEGENLIED, and MELODY ON PURPLE BAMBOO.

The device also includes a pre-amplifier which provides simple interface to the driver circuit.

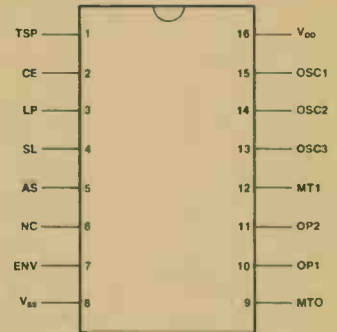
FEATURES

- Powered by a 1.5V battery
- Low stand-by current
- 512 notes memory, up to 16 songs
- Play all the songs repeatedly or auto stop
- Play one song only, repeatedly or auto stop
- Every song starts from the first note
- Any song can be present
- 3 timbres—piano, organ and mandolin
- 5 tempos available through mask setting
- On chip envelope modulator and pre-amplifier

APPLICATIONS

- Toys
- Doorbells
- Music Boxes
- Melody/Clock Timers
- Telephones

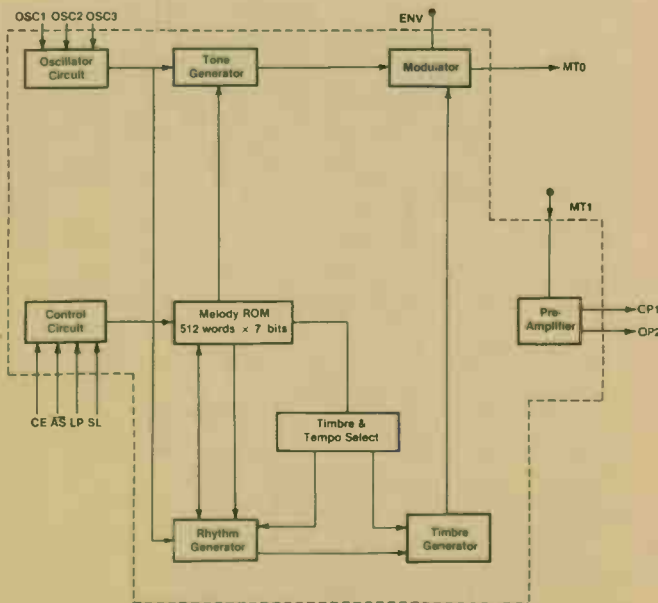
PIN CONNECTION



ABSOLUTE MAXIMUM RATINGS

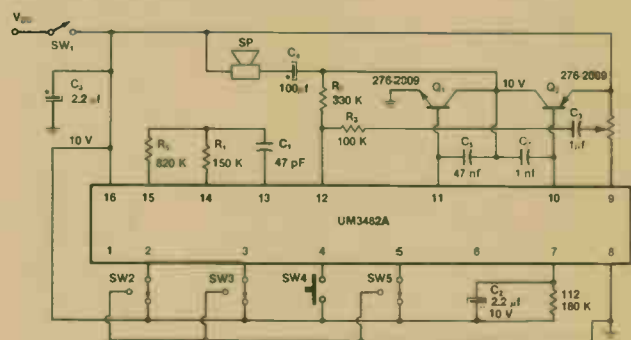
DC supply voltage	.....	- 0.3 V to 5.0 V
Input/output voltage	.....	$V_{SS} - 0.3 V$ to $V_{DD} - 0.3 V$
Operating ambient temperature	.....	- 10°C to 60°C
Storage temperature	.....	- 55°C to 125°C

BLOCK DIAGRAM



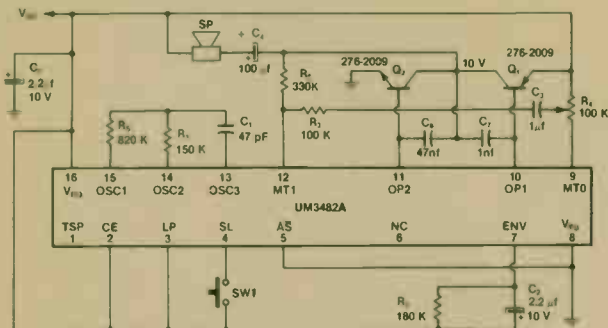
TYPICAL APPLICATION

General application

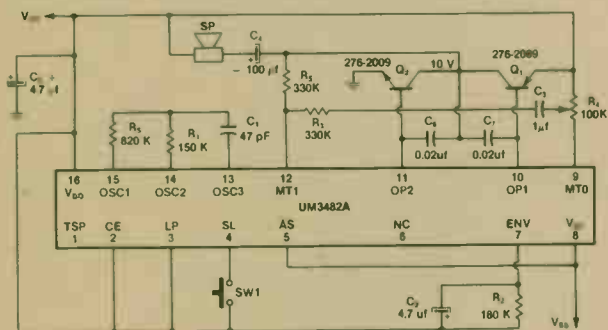


TYPICAL APPLICATIONS

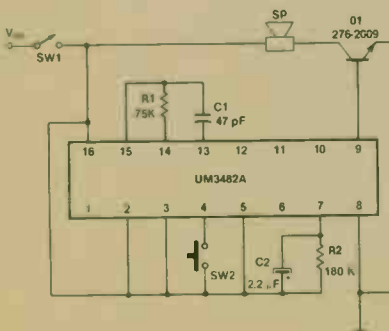
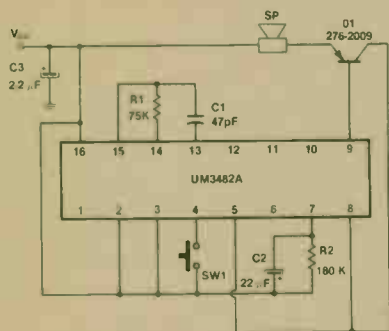
Chime function application



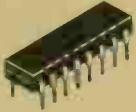
Melody door bell



Low cost applications



PIN NAMES	FUNCTION
1(TSP)	Output flag of melody auto stop In normal operating this pin should be open
2(CE)	Chip enable if connected to V _{DD} Chip disable if connected to V _{SS}
3(LP)	The melody plays only one song if this pin connected to V _{DD} The melody plays all songs if this pin connected to V _{SS}
4(SL)	A positive going edge applied to this pin the melody will change to the next song
5(AS)	The melody will be repeated if this pin connected to V _{DD} The melody will be auto stop if this pin connected to V _{SS}
6(NC)	No connection
7(ENV)	Envelope circuit terminal
8(V _{SS})	Negative supply power
9(MTO)	Modulated tone signal output
10(OP1)	Pre-amplifier output 1
11(OP2)	Pre-amplifier output 2
12(MT1)	Modulated tone signal input to the pre-amplifier
13(OSC3)	Pin 13-15 can be connected as an RC oscillator External oscillating signal can be input to Pin 15
14 (OSC2)	
15(OSC1)	
16(V _{DD})	Positive power supply



65,536-BIT DYNAMIC RANDOM ACCESS MEMORY (RAM)

HYB4164-P2
276-2506

GENERAL DESCRIPTION

The HYB4164 is a 65536-word by 1-bit, MOS random access memory circuit fabricated with new 5-volt only n-channel silicon gate technology, using double layer polysilicon. To protect the chip against α -radiation a chip cover is used. The HYB4164 uses single transistor dynamic storage cells and dynamic control circuitry to achieve high speed at very low power dissipation. Multiplexed address inputs permit the HYB4164 to be packaged in an industry standard 16-pin dual-in-line package.

System oriented features include single power supply with $\pm 10\%$ tolerance, on-chip address and data latches which eliminate the need for interface registers and fully TTL compatible inputs and outputs, including clocks.

In addition to the usual read, write and read-modify-write cycles, the HYB4164 is capable of early and delayed write cycles, RAS-only refresh and hidden refresh. Common I/O capability is given by using "early write" operation.

FEATURES

- 65,536 X1 bit organization
- Industry standard 16-pin JEDEC configuration
- Single +5V $\pm 10\%$ power supply
- Low power dissipation
 - 150 mW active (max.)
 - 20mW standby (max.)
- 150 ns access time, 280 ns cycle
- All inputs and outputs TTL compatible
- High over-and undershooting capability on all inputs
- Low supply current transients
- CAS controlled output providing latched or unlatched data
- Common I/O capability using "early write" operation
- Read-Modify-Write, $\overline{\text{RAS}}$ -only refresh, hidden refresh
- 256 refresh cycles with 4 ms long refresh period
- Page Mode Read and Write

ABSOLUTE MAXIMUM RATINGS

Voltages on any Pin relative to V_{SS}	-1.0 to +7.0V
Voltage High Level Input (All Inputs)	+2.4 to +6.0V
Voltage Low Level Input.....	-1.0 to +0.8V
Voltage Output High ($I_O = -5\text{mA}$).....	+2.4 to V_{CC} V
Voltage Output Low ($I_O = +4.2\text{mA}$).....	0.4V
Short Circuit Output Current	50mA
Power Dissipation	1.0W
Operating Temperature Range	0 to +70°C
Storage Temperature Range	-65 to +150°C

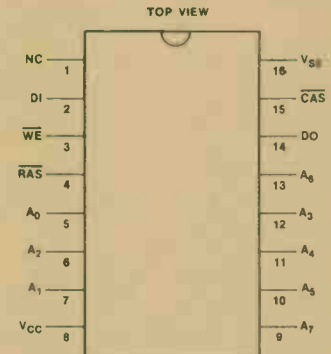
FUNCTIONAL DESCRIPTIONS

Addressing (A_0 - A_7)

For selecting one of the 65536 memory cells, a total of 16 address bits are required. First 8 row-address bits are setup on pins A_0 through A_7 and latched onto the row address latches by the Row Address Strobe ($\overline{\text{RAS}}$). Then the 8 column-address bits are set-up on pins A_0 through A_7 and latched onto the column address latches by the Column Address Strobe ($\overline{\text{CAS}}$). All input addresses must be stable on or shortly after the falling edge of $\overline{\text{RAS}}$ and $\overline{\text{CAS}}$ respectively. $\overline{\text{CAS}}$ is internally gated by $\overline{\text{RAS}}$ to permit triggering of column address latches as soon as the Row Address Hold Time (t_{RAH}) specification has been satisfied and the address inputs have been changed from row-address to column-address.

It should be noted that $\overline{\text{RAS}}$ is similar to a chip enable in that it activates the sense amplifiers as well as the row decoder. $\overline{\text{CAS}}$ is used as a chip-select activating the column decoder and the input and output buffers.

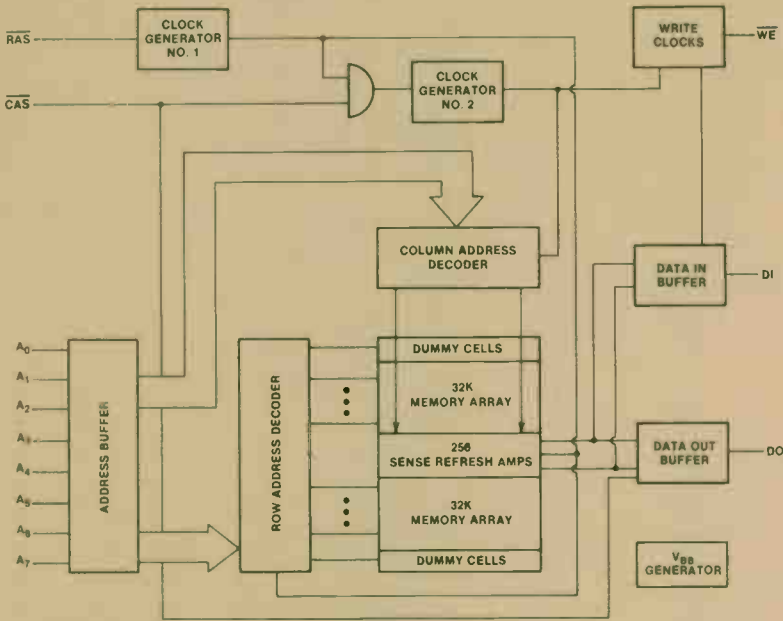
PIN CONNECTION



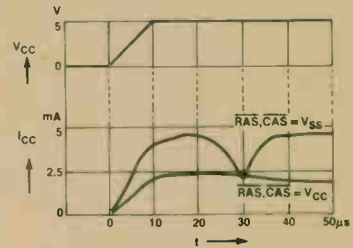
PIN NAMES	FUNCTION
$A_0 - A_7$	Address Inputs
$\overline{\text{CAS}}$	Column Address Strobe
DI	Data In
NC	No Connection
DO	Data Out
$\overline{\text{RAS}}$	Row Address Strobe
$\overline{\text{WE}}$	Write Enable
V_{CC}	Power Supply (+5V)
V_{SS}	Ground (0V)

HYB4164 276-2508

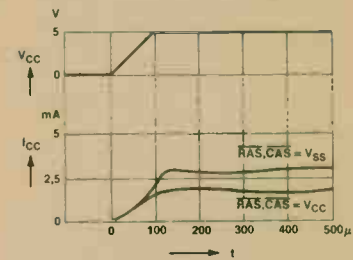
BLOCK DIAGRAM



TYPICAL CHARACTERISTICS



Current Consumption During Power Up (V_{CC} Risettime $10\mu s$)



Current Consumption During Power Up (V_{CC} Risettime $100\mu s$)

FUNCTIONAL DESCRIPTIONS (Cont'd)

Write Enable (\overline{WE})

The read or write mode is selected with the \overline{WE} input. A logic high (V_{IH}) on \overline{WE} dictates read mode; logic low (V_{IL}) dictates write mode. The data input is disabled when the read mode is selected. When \overline{WE} goes low prior to \overline{CAS} , data output (DO) will remain in the high-impedance state for the entire cycle permitting common I/O operation.

Data Input (DI)

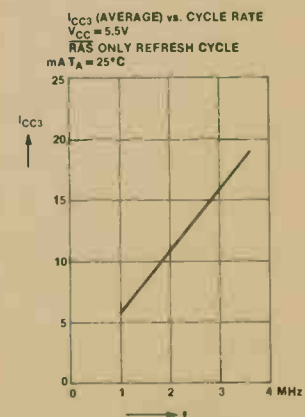
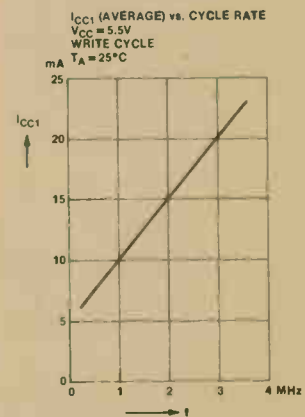
Data is written during a write or read-modify-write cycle. The falling edge of \overline{CAS} or \overline{WE} strobbs data into the on-chip data latch. In an early write cycle \overline{WE} is brought low prior to \overline{CAS} and the data is strobbed in by \overline{CAS} with set-up and hold times referenced to this signal. In a delayed write or read-modify write cycle, \overline{CAS} will already be low, thus the data will be strobbed in by \overline{WE} with set-up and hold times referenced to this signal.

Power ON

An initial pause of $200\mu s$ is required after power-up followed by a minimum of eight (8) initialization cycles (any combination of cycles containing a \overline{RAS} clock such as \overline{RAS} -only refresh) prior to normal operation. The current requirement of the HYB4164 during power on is, however, dependent upon the input levels \overline{RAS} , \overline{CAS} and the rise time of V_{CC} , as shown in the (Current Consumption During Power Up) diagram.

Data Output (DO)

The output buffer is three-state TTL compatible with a fan-out of two standard TTL loads. Data-out is the same polarity as data-in. The output is in a high-impedance state until \overline{CAS} is brought low. In a read cycle, or read-write cycle, the output is valid after t_{RAC} from the transition of \overline{RAS} when t_{RCD} (min) is satisfied, or after t_{CAC} from the transition of \overline{CAS} when the transition occurs after t_{RCD} (max.). \overline{CAS} going high returns the output to a high-impedance state. In an early write cycle the output is always in the high-impedance state. In a delayed write or read-modify-write cycle, the output will follow the sequence for the read cycle.



FUNCTIONAL DESCRIPTIONS (Cont'd)

Hidden Refresh

RAS only refresh cycle may take place while maintaining valid output data. This feature is referred to as Hidden Refresh. Hidden Refresh is performed by holding CAS at V_{IL} from a previous memory read cycle.

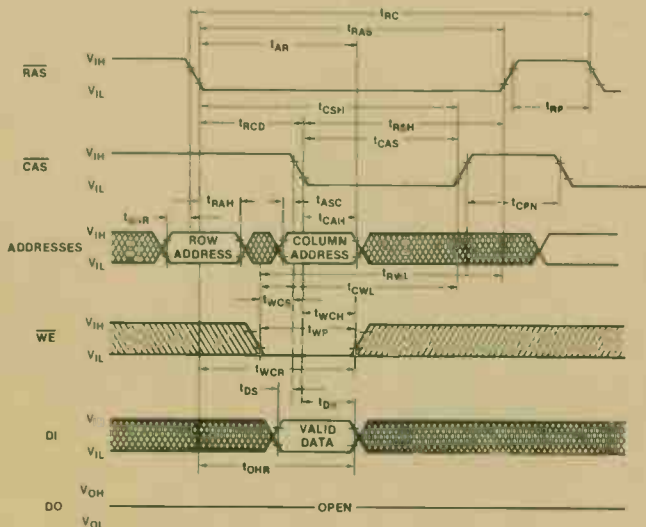
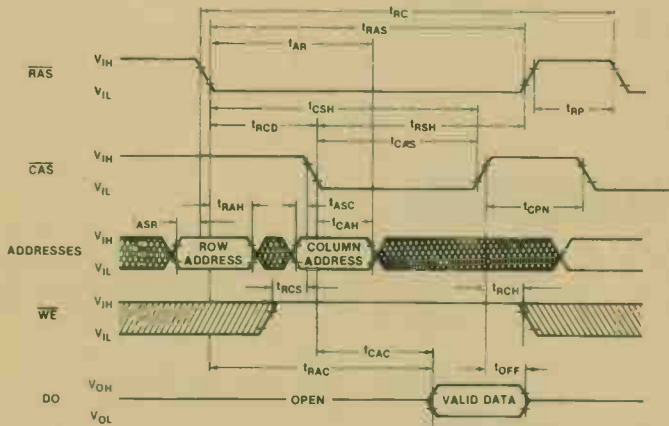
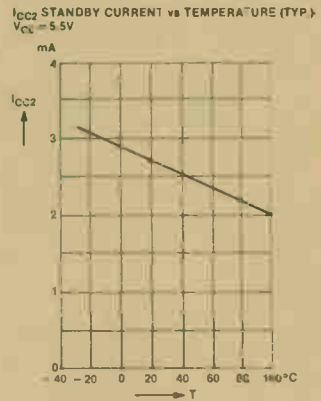
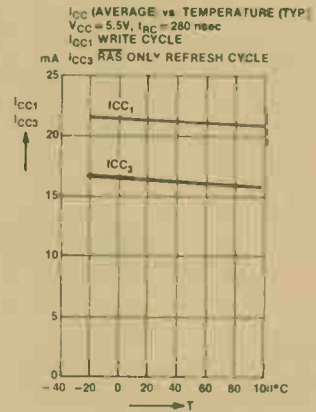
Page Mode

Page Mode operations allows a faster data transfer rate. This is achieved by maintaining the row address while strobing successive column addresses onto the chip. The time required to set-up and strobe sequential row addresses for the same page is eliminated.

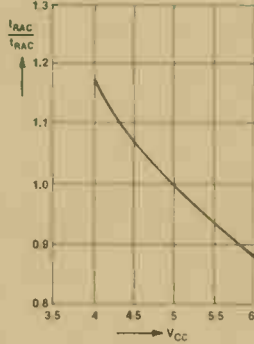
Refresh Cycle

A refresh operation must be performed at least every four milli-seconds to retain data. Since the output buffer is in the high-impedance state unless CAS is applied, the RAS only refresh sequence avoids any output signal during refresh. Strobing each of the 256 row addresses (A_0 through A_7) with RAS causes all bits in each row to be refreshed. CAS can remain high (inactive) for this refresh sequence to conserve power.

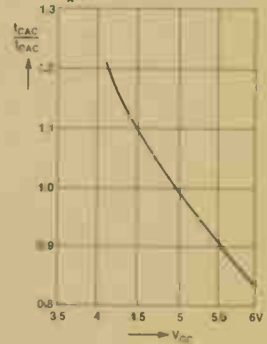
TYPICAL CHARACTERISTICS (Cont'd)



RAS ACCESS TIME vs. SUPPLY VOLTAGE
 $T_A = 25^\circ C$



CAS ACCESS TIME vs. SUPPLY VOLTAGE
 $T_A = 25^\circ C$

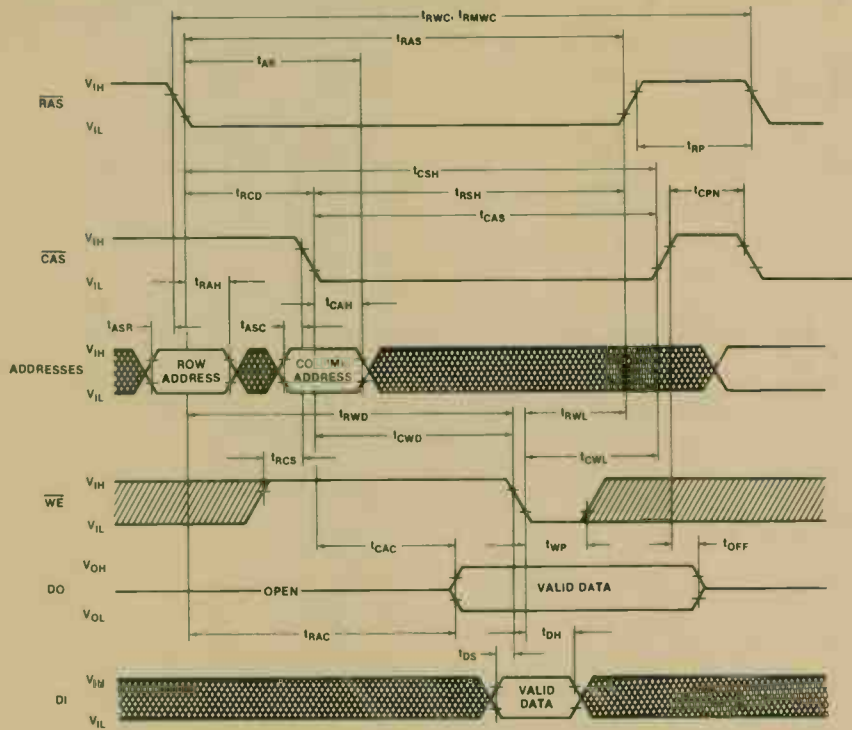


Typical Access Time Curves

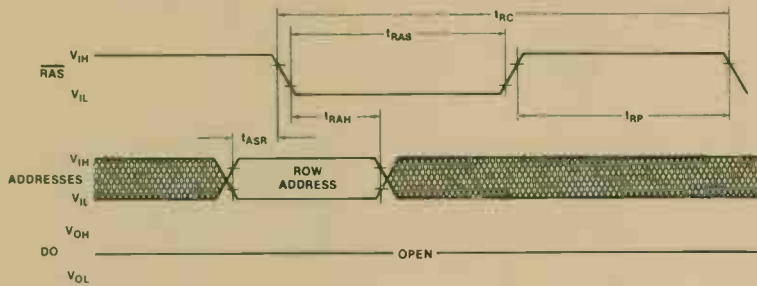
DIGITAL (MEMORY)

HYB4164 276-2506

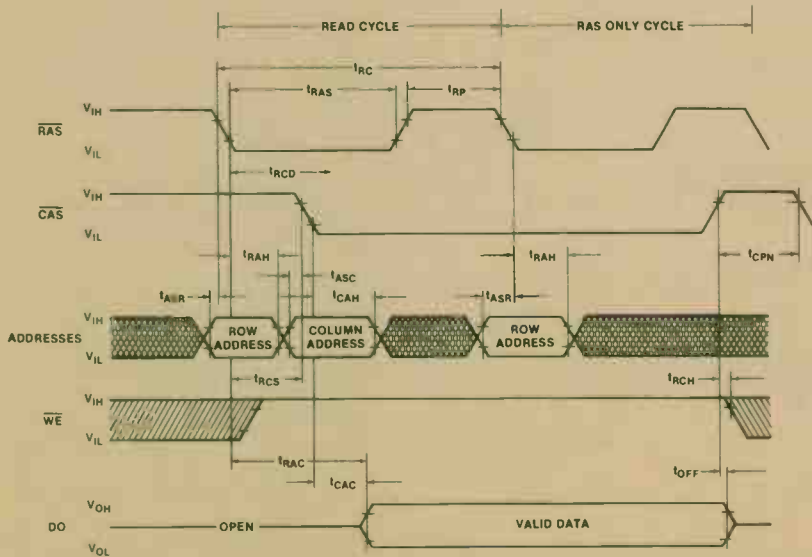
TYPICAL CHARACTERISTICS (Cont'd)



Read-Write/Read-Modify-Write Cycle

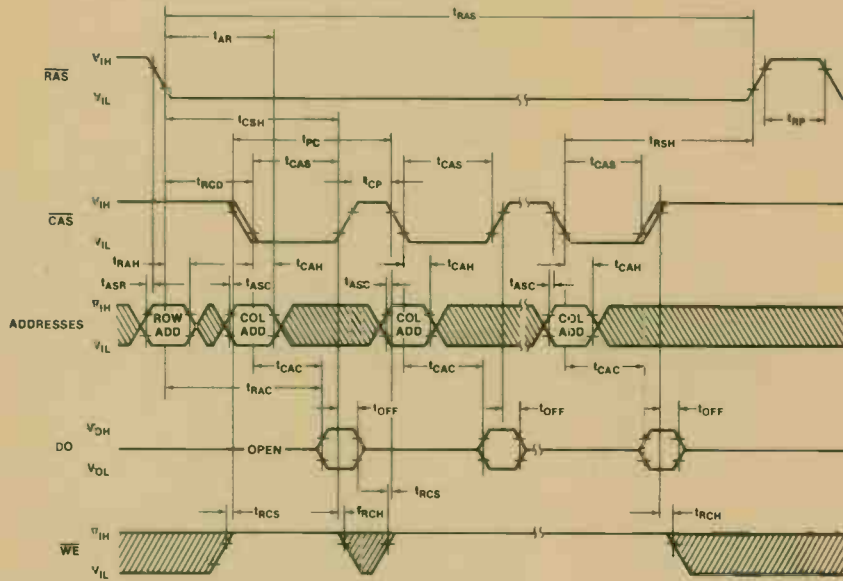


"RAS-ONLY" REFRESH CYCLE
NOTE CAS = V_{IH} ; WE = DON'T CARE

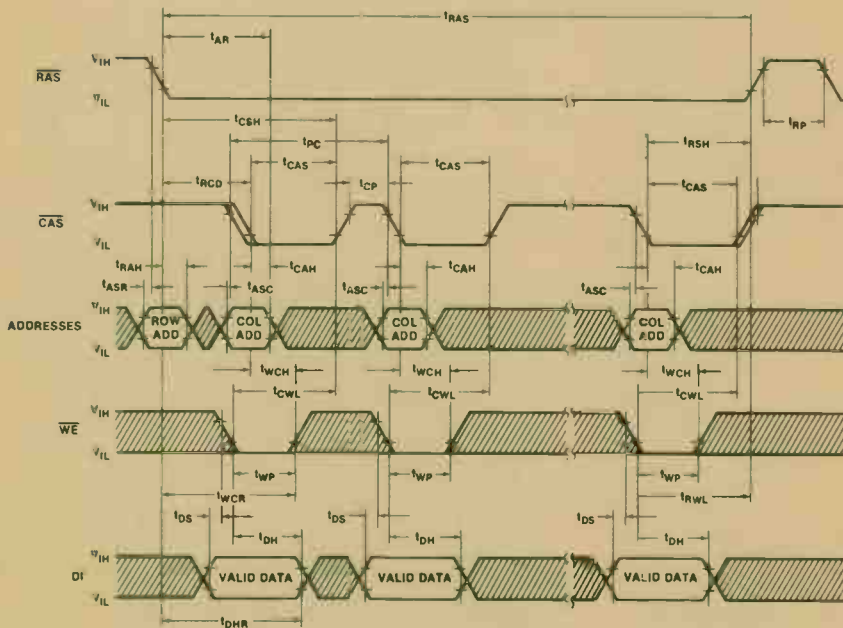


Hidden Refresh

TYPICAL CHARACTERISTICS (Cont'd)



Page Mode Read Cycle

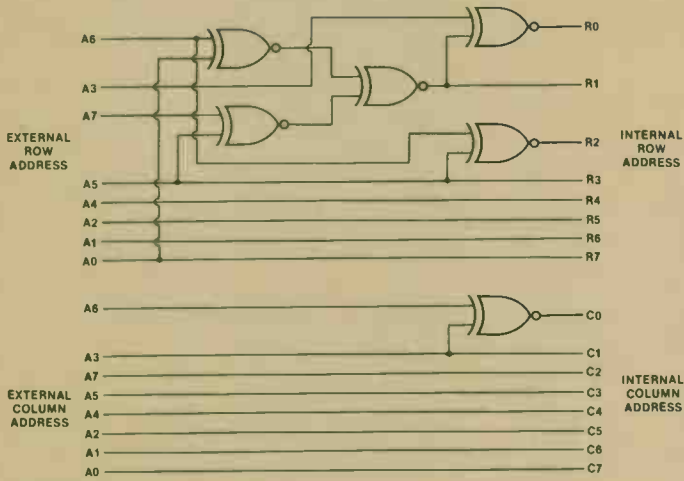


Page Mode Write Cycle

DIGITAL (MEMORY)

HYB4164 276-2506

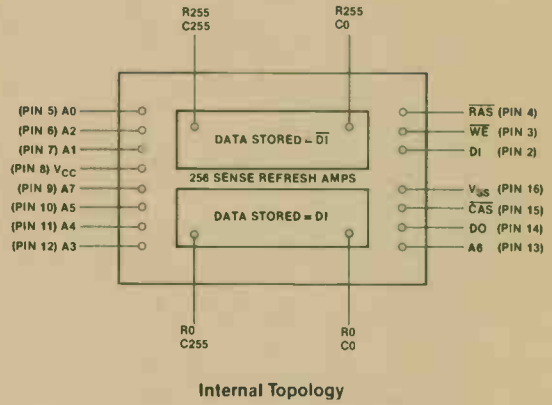
TYPICAL CHARACTERISTICS (Cont'd)



INTERNAL DATA POLARITY
DATA STORED = $D1 \oplus A_0$ (ROW)

NOTE: The logic symbol "exclusive nor" is used solely to indicate the logic function.

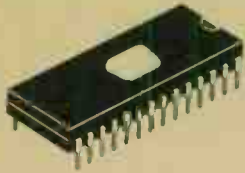
Address Decoder Scrambling



Internal Topology

Topology Description

The evaluation and incoming testing of RAMs normally requires a description of the internal topology of the device in order to check for "worst case" pattern.



64K UV EPROM

MSM 2764RS
276-1251

GENERAL DESCRIPTION

The MSM2764RS is a 8192W × 8 bit ultraviolet erasable and electrically programmable read-only memory. Users can freely prepare the memory content, which can be easily changed, so the MSM2764RS is ideal for microprocessor programs.

The MSM2764RS is manufactured using the N channel double silicon gate MOS technology.

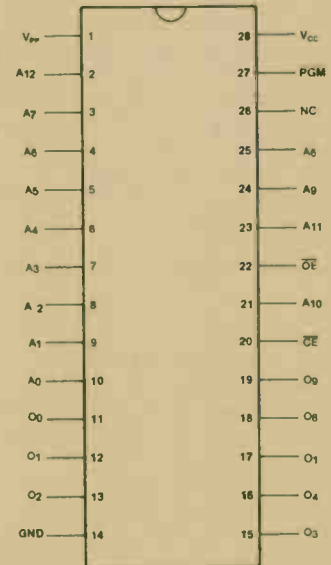
FEATURES

- +5V single power supply
- 8192 words × 8 bits configuration
- Access time: MAX 250ns
- Power consumption:
 - MAX 525 mW (during operation)
 - MAX 184 mW (during stand-by)
- Perfect static operation
- INPUT/OUTPUT TTL level (three state output)

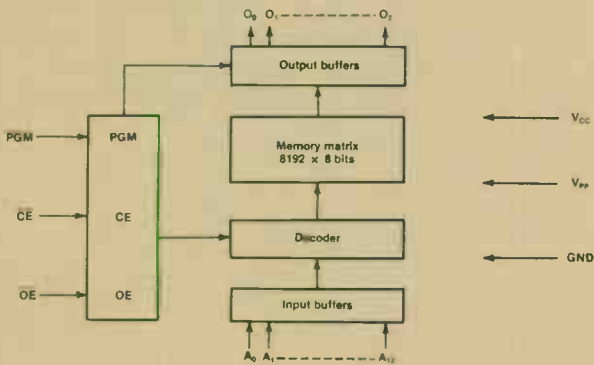
ABSOLUTE MAXIMUM RATINGS

Program Voltage V_{PP} - 0.6 V to 23 V
 All input/output voltages V_{in}, V_{out} - 0.6 V to 7V
 Power P_D 1.5 W
 Operating Temperature T_A 0°C to 70°C
 Storage Temperature $T_{S\&G}$ - 55°C to 125°C

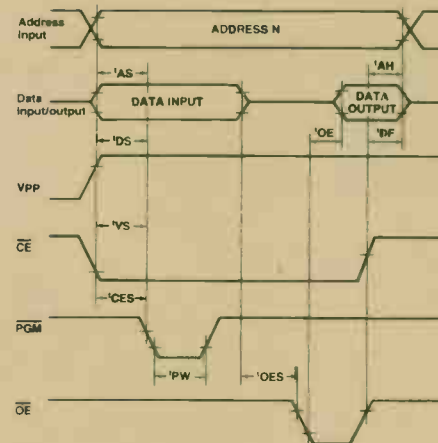
PIN CONNECTIONS



BLOCK DIAGRAM



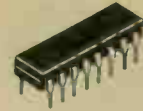
Time Chart



DIGITAL (MEMORY)

TMS4256
276-1252

256 K DYNAMIC RAM



GENERAL DESCRIPTION

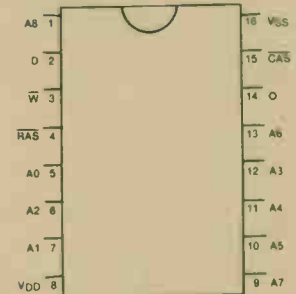
The 4256 is a high-speed, 262,144-bit dynamic random-access memory, organized as 262,144 words of one bit each. It employs state-of-the-art SMOS (scaled MOS) N-channel double-level polysilicon/polycide gate technology for very high performance combined with low cost and improved reliability.

This device features maximum RAS access times of 150ns. Typical power dissipation is as low as 275 mW operating and 12.5 mW standby.

New SMOS technology permits operation from a single 5-V supply, reducing system power supply and decoupling requirements, and easing board layout. I_{DD} peaks are 125 mA typical, and -1-V input voltage undershoot can be tolerated, minimizing system noise considerations.

All inputs and outputs, including clocks, are compatible with Series 74 TTL. All address and data-in lines are latched on chip to simplify system design. Data out is unlatched to allow greater system flexibility.

PIN CONNECTION



FEATURES

- 262,144 × 1 organization
- Single 5 V supply
- Access time row address 150ns (Max.)
- Access time column address 75ns (Max.)
- Read or write cycle 260ns (Min.)
- Long refresh period 4ms (Max.)
- Low refresh overhead time
- On-chip substitute bias generator
- All inputs, outputs, and clocks fully TTL compatible
- RAS-only refresh mode
- Hidden refresh mode
- CAS-before-RAS refresh mode

TRUTH TABLE

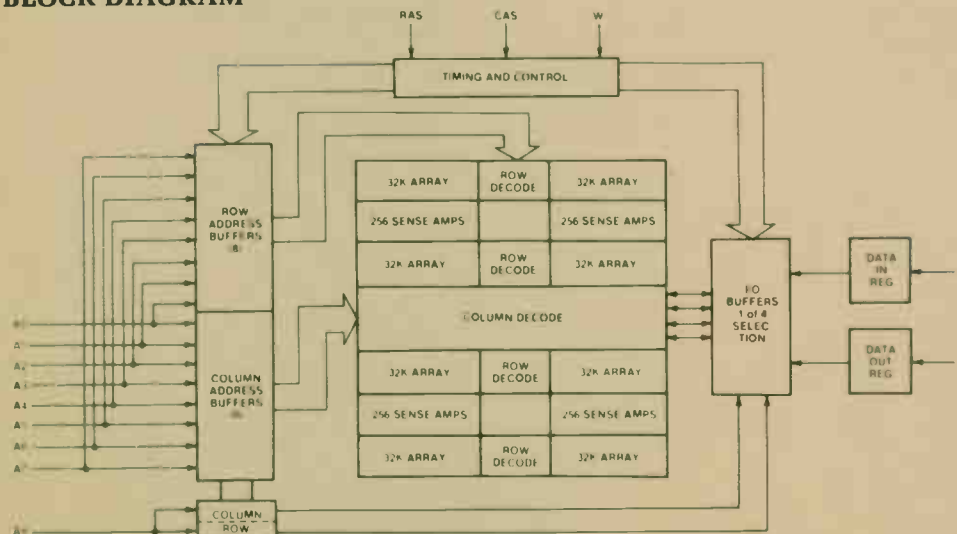
PIN NAMES	FUNCTION
A0-A8	Address Inputs
CAS	Column-Address Strobe
D	Data In
Q	Data Out
RAS	Row-Address Strobe
V _{DD}	5-V Supply
V _{SS}	Ground
W	Write Enable

ABSOLUTE MAXIMUM RATINGS

Voltage range for any pin including V_{DD} supply (see Note 1) - 1 V to 7 V
 Short circuit output current 50 mA
 Power dissipation 1 W
 Operating free-air temperature range 0°C to 70°C
 Storage temperature range - 65°C to 150°C

NOTES: 1. All voltage values are with respect to V_{SS}.

BLOCK DIAGRAM



OPERATION

address (A0 through A8)

Eighteen address bits are required to decode 1 of 262,144 storage cell locations. Nine row-address bits are set up on pins A0 through A8 and latched onto the chip by the row-address strobe ($\overline{\text{RAS}}$). Then the nine column-address bits are set up on pins A0 through A8 and latched onto the chip by the column-address strobe ($\overline{\text{CAS}}$). All addresses must be stable on or before the falling edges of $\overline{\text{RAS}}$ and $\overline{\text{CAS}}$. $\overline{\text{RAS}}$ is similar to a chip enable in that it activates the sense amplifiers as well as the row decoder. $\overline{\text{CAS}}$ is used as a chip select activating the column decoder and the input and output buffers.

write enable ($\overline{\text{W}}$)

The read or write mode is selected through the write-enable ($\overline{\text{W}}$) input. A logic high on the $\overline{\text{W}}$ input selects the read mode and a logic low selects the write mode. The write-enable terminal can be driven from standard TTL circuits without a pull-up resistor. The data input is disabled when the read mode is selected. When $\overline{\text{W}}$ goes low prior to $\overline{\text{CAS}}$, data out will remain in the high-impedance state for the entire cycle permitting common I/O operation.

data in (D)

Data is written during a write or read-modify-write cycle. Depending on the mode of operation, the falling edge of $\overline{\text{CAS}}$ or $\overline{\text{W}}$ strobes data into the on-chip data latch. This latch can be driven from standard TTL circuits without a pull-up resistor. In an early write cycle, $\overline{\text{W}}$ is brought low prior to $\overline{\text{CAS}}$ and the data is strobed in by $\overline{\text{CAS}}$ with setup and hold times referenced to this signal. In a delayed-write or read-modify-write cycle, $\overline{\text{CAS}}$ will already be low, thus the data will be strobed in by $\overline{\text{W}}$ with setup and hold times referenced to this signal.

data out (Q)

The three-state output buffer provides direct TTL compatibility (no pull-up resistor required) with a fan out of two Series 74 TTL loads. Data out is the same polarity as data in. The output is in the high-impedance (floating) state until $\overline{\text{CAS}}$ is brought low. In a read cycle the output goes active after the access time interval $t_{a(R)}$ that begins with the negative transition of $\overline{\text{CAS}}$ as long as $t_{a(R)}$ is satisfied. The output becomes valid after the access time has elapsed and remains valid while $\overline{\text{CAS}}$ is low; $\overline{\text{CAS}}$ going high returns it to a high-impedance state. In a read-modify-write cycle, the output will follow the sequence for the read cycle.

refresh

A refresh operation must be performed at least once every four milliseconds to retain data. This can be achieved by strobing each of the 256 rows (A0-A7). A normal read or write cycle will refresh all bits in each row that is selected. A $\overline{\text{RAS}}$ -only operation can be used by holding $\overline{\text{CAS}}$ at the high (inactive) level, thus conserving power as the output buffer remains in the high-impedance state.

$\overline{\text{CAS}}$ -before- $\overline{\text{RAS}}$ refresh

The $\overline{\text{CAS}}$ -before- $\overline{\text{RAS}}$ refresh is utilized by bringing $\overline{\text{CAS}}$ low earlier than $\overline{\text{RAS}}$ (see parameter t_{CRL}) and holding it low after $\overline{\text{RAS}}$ falls (see parameter t_{CLR}). For successive $\overline{\text{CAS}}$ -before- $\overline{\text{RAS}}$ refresh cycles, $\overline{\text{CAS}}$ can remain low while cycling $\overline{\text{RAS}}$. The external address is ignored and the refresh address is generated internally.

hidden refresh

Hidden refresh may be performed while maintaining valid data at the output pin. This is accomplished by holding $\overline{\text{CAS}}$ at V_{IL} after a read operation and cycling $\overline{\text{RAS}}$ after a specified precharge period, similar to a " $\overline{\text{RAS}}$ -only" refresh cycle. The external address is also ignored during the hidden refresh cycles.

page mode

Page-mode operation allows effectively faster memory access by keeping the same row address and strobing random column addresses onto the chip. Thus, the time required to setup and strobe sequential row addresses for the same page is eliminated. The maximum number of columns that can be addressed is determined by t_{WR} , the maximum $\overline{\text{RAS}}$ low pulse duration.

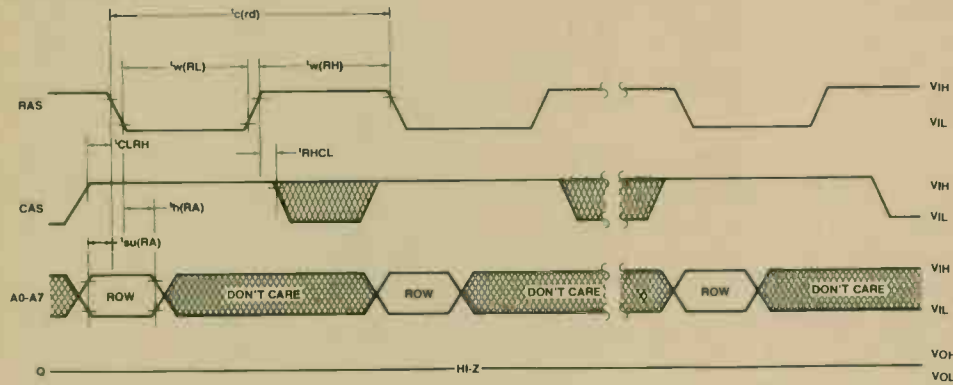
power-up

To achieve proper device operation, an initial pause of 200 μs is required after power up followed by a minimum of eight initialization cycles.

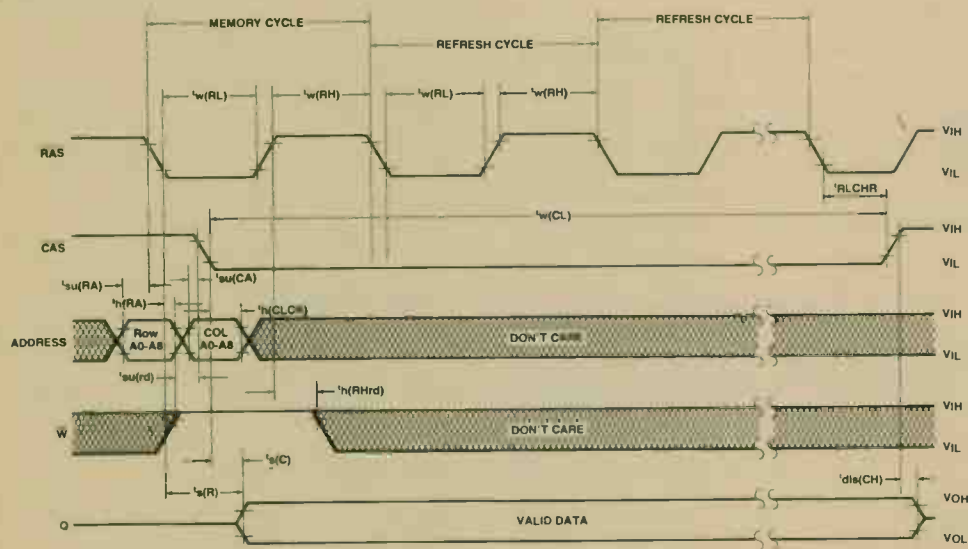
DIGITAL (MEMORY)

TMS 4256 276-1252

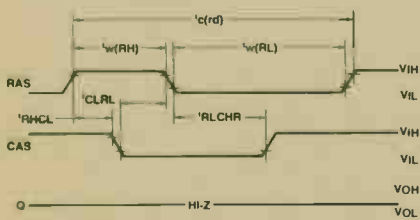
RAS-only refresh cycle timing

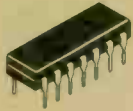


hidden refresh cycle timing



automatic (CAS-before-RAS) refresh cycle timing





QUAD TWO-INPUT NAND GATE

7400
276-1801

GENERAL DESCRIPTION

This device employs TTL logic to achieve high speed at moderate power dissipation. It provides the basic functions used in the implementation of digital integrated circuit systems.

For best noise immunity and switching speed, unused inputs should not be left floating, but should be held between 2.4 V and the absolute maximum input voltage.

Two possible ways at handling unused inputs are:

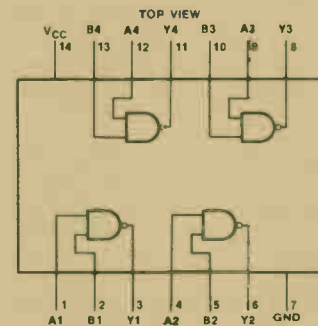
- (1) Connect unused inputs to V_{CC} . For all multi-emitter conventional TTL inputs, A 1 to 10K ohm current limiting series resistor is recommended, to protect against V_{CC} transients that exceed 5.5 V.
- (2) Connect the unused input to the output of an unused gate that is forced high.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	5.25 V
Input High Voltage	2.0 V
Input Low Voltage	0.8 V
Input Clamp Diode Voltage ($V_{CC} = 5.0 V, I_{IN} = -12 mA$)	-1.5 V
Input High Current ($V_{CC} = Max., V_{IN} = 2.4 V$)	40 μA
Input Low Current ($V_{CC} = Max., V_{IN} = 0.4 V$)	-1.6 mA
Operating Temperature	0 to +70°C

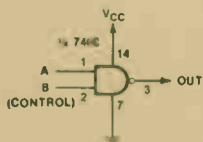
TYPICAL APPLICATIONS

PIN CONNECTION



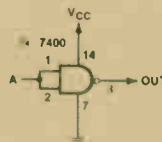
TRUTH TABLE

$$Y = \overline{AB}$$



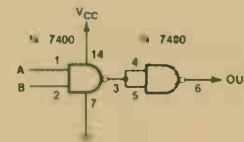
A	B	OUT
L	L	H
L	H	H
H	L	H
H	H	L

Control Gate



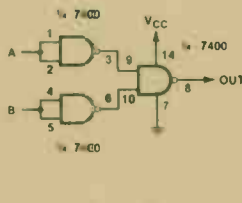
A	OUT
L	H
H	L

Inverter



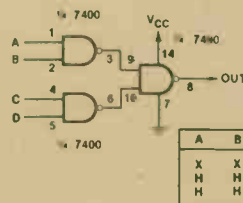
A	B	OUT
L	L	L
L	H	L
H	L	L
H	H	H

AND Gate



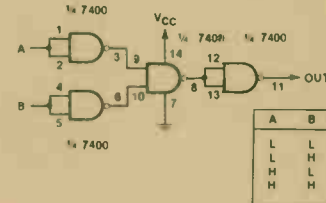
A	B	OUT
L	L	L
L	H	H
H	L	H
H	H	H

OR Gate



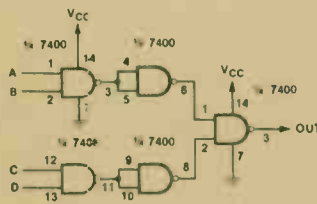
A	B	C	D	OUT
X	X	H	H	H
H	H	X	X	H
H	H	H	H	H

AND-OR Gate



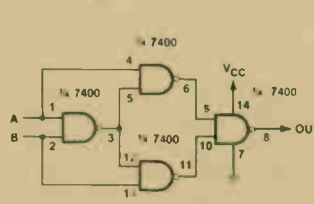
A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	L

NOR Gate



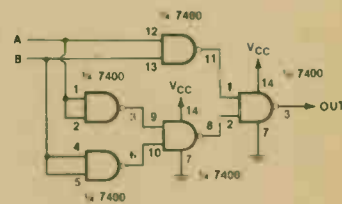
A	B	C	D	OUT
L	X	X	X	H
X	L	X	X	H
X	X	L	X	H
X	X	X	L	H
H	H	H	H	L

4-Input NAND Gate



A	B	OUT
L	L	L
L	H	H
H	L	H
H	H	L

Exclusive-OR Gate

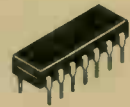


A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	H

Exclusive-NOR Gate

7404
276-1802

HEX INVERTER



GENERAL DESCRIPTION

This device employs TTL logic to achieve high speed at moderate power dissipation. This hex inverter provides the basic functions used in the implementation of digital integrated circuit systems.

For best noise immunity and switching speed, unused inputs should not be left floating, but should be held between 2.4 V and the absolute maximum input voltage.

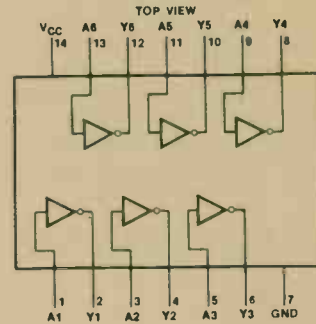
Two possible ways of handling unused inputs are:

- (1) Connect unused inputs to V_{CC} . For all multi-emitter conventional TTL inputs, A 1 to 10K ohm current limiting series resistor is recommended, to protect against V_{CC} transients that exceed 5.5 V.
- (2) Connect the unused input to the output of an unused gate that is forced high.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	5.25 V
Input High Voltage	2.0 V
Input Low Voltage	0.8 V
Input Clamp Diode ($V_{CC} = 5.0 V, I_{IN} = -12 mA$)	-1.5 V
Input High Current ($V_{CC} = Max., V_{IN} = 2.4 V$)	40 μA
Input Low Current ($V_{CC} = Max., V_{IN} = 0.4 V$)	-1.6 mA
Operating Temperature	0 to +70°C

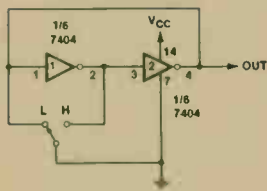
PIN CONNECTION



TRUTH TABLE

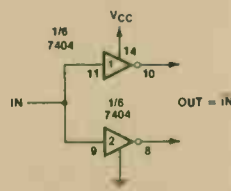
$Y = \bar{A}$

TYPICAL APPLICATIONS



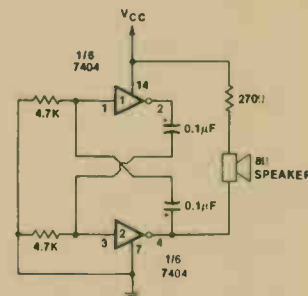
Output follows switch position.

Bouncefree Switch



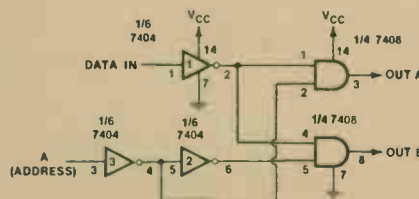
Allows one signal to control two or more inputs.

Universal Expander



Output tone is 4kHz.

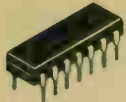
Audio Oscillator



This circuit steers the input bit to the output selected by the address.

DATA	ADDRESS	OUT A	OUT B
L	L	L	H
H	L	H	H
L	H	H	L
H	H	H	H

1-of-2 Demultiplexer



QUAD TWO-INPUT AND GATE

7408
276-1822

GENERAL DESCRIPTION

This device employs TTL logic to achieve high speed at moderate power dissipation. These gates provide the basic functions used in the implementation of digital integrated circuit systems.

For best noise immunity and switching speed, unused inputs should not be left floating, but should be held between 2.4 V and the absolute maximum input voltage.

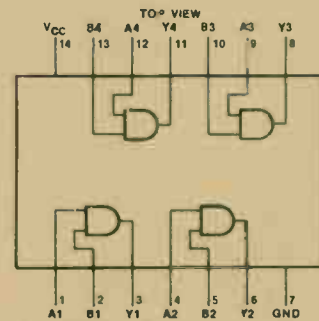
Two possible ways at handling unused inputs are:

- (1) Connect unused inputs to V_{CC} . For all multi-emitter conventional TTL inputs, a 1 to 10K ohm current limiting series resistor is recommended, to protect against V_{CC} transients that exceed 5.5 V.
- (2) Connect the unused input to the output of an unused gate that is forced high.

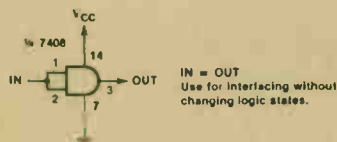
ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	5.25 V
Input High Voltage	2.0 V
Input Low Voltage	0.8 V
Input Clamp Diode Voltage ($V_{CC} = 5.0 V, I_{IN} = -12 mA$)	-1.5 V
Input High Current ($V_{CC} = Max., V_{IN} = 2.4 V$) .....	.40 μA
Input Low Current ($V_{CC} = Max., V_{IN} = 0.4 V$)	-1.6 mA
Operating Temperature	0 to +70°C

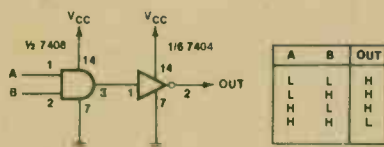
PIN CONNECTION



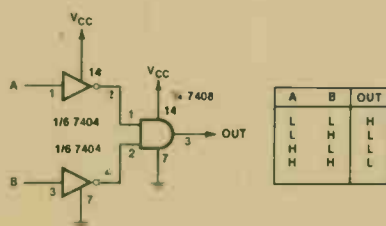
TYPICAL APPLICATIONS



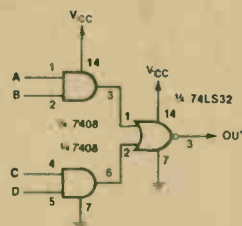
AND Gate Buffer



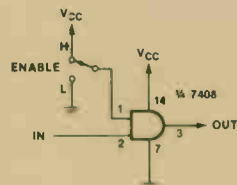
NAND Gate



NOR Gate



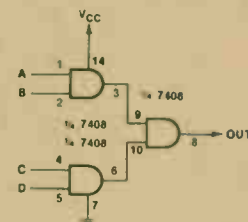
AND-OR-Invert Gate



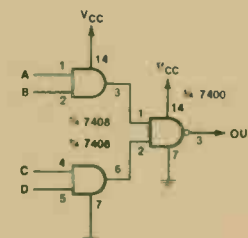
Digital Transmission Gate

TRUTH TABLE

$Y = AB$



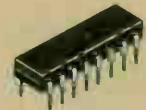
4-Input AND Gate



4-Input NAND Gate

7447
276-1805

BCD TO SEVEN-SEGMENT DECODER/DRIVER



GENERAL DESCRIPTION

This versatile binary-coded-decimal 7-segment display driver fulfills a wide variety of requirements for most active high (common cathode) and active low (common anode) light emitting diodes (LED) or lamp displays. It fully decodes a 4-bit BCD input into a number from 0 through 9 in the standard 7-segment display format, and BCD numbers above 9 into unique patterns that verify operation. All circuits operate off of a single 5.0V supply. The output will withstand 15 Volts at a maximum leakage current of 250µA.

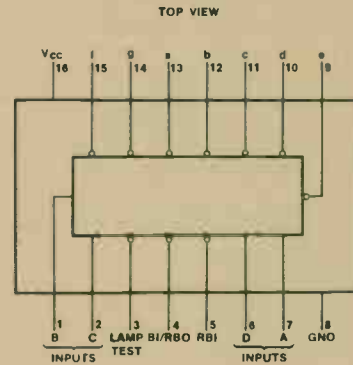
FEATURES

- Lamp-test input
- Leading trailing zero suppression (RBI and RBO)
- Blanking input that may be used to modulate lamp intensity or inhibit output
- TTL and DTL compatible
- Input clamping diodes
- Open collector outputs drive indicators directly

ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	4.75 — 5.25 V
Continuous Voltage at Outputs a-g	Max. 15 V
Logic 1 Input Voltage	Min. 2 V
Logic 0 Input Voltage	Max. 0.8 V
Logic 0 Output Voltage BI/RBO	Max. 0.4 V
Logic 1 Output Voltage at BI/RBO	Min. 2.4 V
Power.....	320 mW

PIN CONNECTION



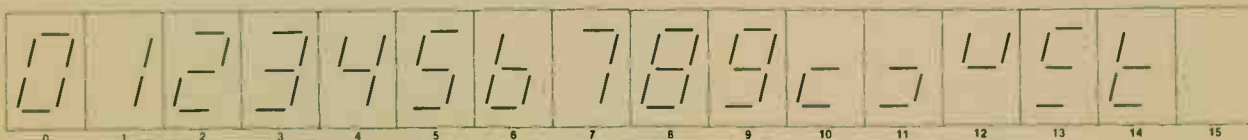
TRUTH TABLE

DECIMAL OR FUNCTION	INPUTS						BI/RBO†	OUTPUTS							NOTE
	LT	RBI	D	C	B	A		a	b	c	d	e	f	g	
0	H	H	L	L	L	L	H	L	L	L	L	L	L	H	
1	H	X	L	L	L	H	H	H	L	L	H	H	H	H	
2	H	X	L	L	H	L	H	L	L	H	L	L	H	L	
3	H	X	L	L	H	H	H	L	L	L	L	H	H	L	
4	H	X	L	H	L	L	H	H	L	L	H	H	L	L	
5	H	X	L	H	L	H	H	L	H	L	L	H	L	L	
6	H	X	L	H	H	L	H	H	H	L	L	L	L	L	
7	H	X	L	H	H	H	H	L	L	L	H	H	H	H	
8	H	X	H	L	L	L	H	L	L	L	L	L	L	L	1
9	H	X	H	L	L	H	H	L	L	L	H	H	L	L	
10	H	X	H	L	H	L	H	H	H	H	L	L	H	L	
11	H	X	H	L	H	H	H	H	H	L	L	H	H	L	
12	H	X	H	H	L	L	H	H	L	H	H	H	L	L	
13	H	X	H	H	L	H	H	L	H	H	L	H	L	L	
14	H	X	H	H	H	L	H	H	H	H	L	L	L	L	
15	H	X	H	H	H	H	H	H	H	H	H	H	H	H	
BI	X	X	X	X	X	X	L	H	H	H	H	H	H	H	2
RBI	H	L	L	L	L	L	L	H	H	H	H	H	H	H	3
LT	L	X	X	X	X	X	H	L	L	L	L	L	L	L	4

H = High Level, L = Low Level, X = Irrelevant

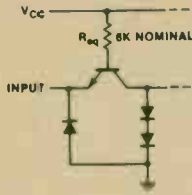
- Notes: 1. The blanking input (BI) must be open or held at a high logic level when output functions 0 thru 15 are desired. The ripple-blanking input (RBI) must be open or high, if blanking of a decimal zero is not desired.
2. When a low logic level is applied directly to the blanking input (BI), all segment outputs are H regardless of the level of any other input.
3. When ripple-blanking input (RBI) and inputs A, B, C, and D are at a low level with the lamp-test input high, all segment outputs go H and the ripple-blanking output (RBO) goes to a low level (response condition).
4. When the blanking input/ripple blanking output (BI/RBO) is open or held high and a low is applied to the lamp test input, all segment outputs are L.

† BI/RBO is wire-AND logic serving as blanking input (BI) and/or ripple-blanking output (RBO).

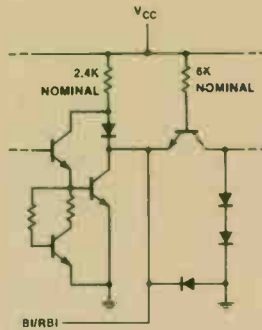


Numerical Designations and Resultant Displays

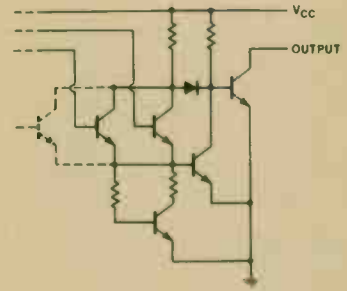
INPUT/OUTPUT EQUIVALENTS



Each Input Except BI/RBO

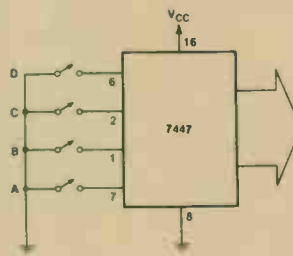


BI/RBO Input

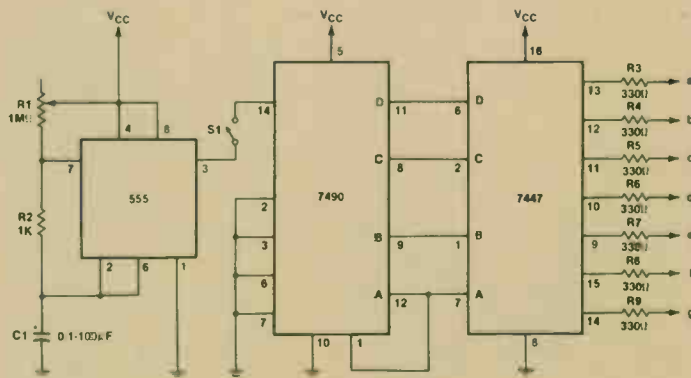


Typical of Outputs a Thru g

TYPICAL APPLICATIONS



Manually Switched Display

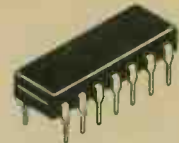


Close S1 to start timing cycle.
Calibrate 555 for 1 pulse (count) per second or 9 count per minute by adjusting R1.

0-9 Second/Minute Timer

7490
276-1808

DIVIDE BY 2 OR 5, BCD COUNTER



GENERAL DESCRIPTION

This monolithic BCD counter contains four master-slave flip-flops and additional gating to provide a divide-by-two counter and a three-stage binary counter for which the count cycle length is divide-by-five.

This counter has a gated zero reset and gated set-to-nine inputs for use in BCD nine's complement applications.

To use maximum count length, the B input is connected to the Q_A output. The input count pulses are applied to input A and the outputs are as described in the appropriate truth table. A symmetrical divide-by-ten count can be obtained from the 90 counter by connecting the Q_D output to the A input and applying the input count to the B input which gives a divide-by-ten square wave at output Q_A.

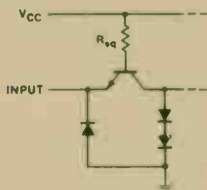
FEATURES

- Low power consumption
- High count rates . . . typically 50MHz
- Choice of counting modes
- Fully TTL and CMOS compatible

ABSOLUTE MAXIMUM RATINGS

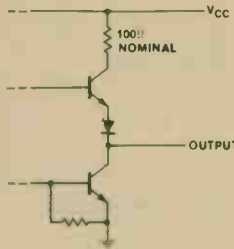
Typical Power Dissipation	145 mW
Count Frequency	42 MHz
High Level Input Voltage (Min)	2 V
Low Level Input Voltage (Max)	0.8 V
High Level Input Current	800 μA
Low Level Output Current (Max)	16 mA
V _{CC} to Ground	- 0.5 to + 7.0 V
Voltage Applied to Outputs (Output High)	- 0.5 to + 5.5 V

INPUT/OUTPUT EQUIVALENTS



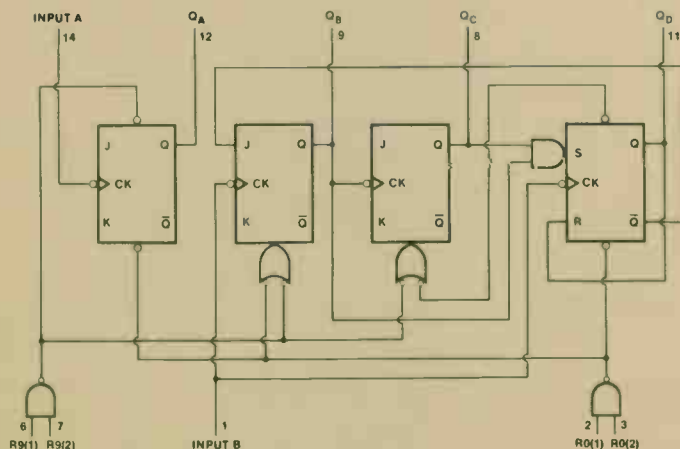
INPUT	R _{in} NOMINAL
A	2.5K
B	1.25K
ALL RESETS	6K

Each Input

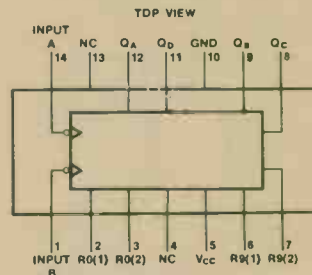


Typical of all Outputs

BLOCK DIAGRAM



PIN CONNECTION



TRUTH TABLES

RESET/COUNT

RESET INPUTS				OUTPUTS			
RO(1)	RO(2)	R9(1)	R9(2)	Q _D	Q _C	Q _B	Q _A
H	H	L	X	L	L	L	L
H	H	X	L	L	L	L	L
X	X	H	H	H	L	L	H
X	L	X	L	COUNT			
L	X	L	X	COUNT			
L	X	X	L	COUNT			
X	L	L	X	COUNT			

BCD COUNT SEQUENCE (See Note A)

COUNT	OUTPUTS			
	Q _D	Q _C	Q _B	Q _A
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	L	H	L	H
6	L	H	H	L
7	L	H	H	H
8	H	L	L	L
9	H	L	L	H

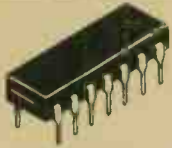
BI-QUINARY (5-2) (See Note B)

COUNT	OUTPUTS			
	Q _A	Q _D	Q _C	Q _B
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	H	L	L	L
6	H	L	L	H
7	H	L	H	L
8	H	L	H	H
9	H	H	L	L

L = Low Level
H = High Level

Notes:

- (A) Output Q_A is connected to input B for BCD count.
- (B) Output Q_D is connected to input A for bi-quinary count.



QUAD LINE DRIVER

MC1488
275-2520

GENERAL DESCRIPTION

The 1488 is a monolithic quad line driver designed to interface data terminal equipment with data communications equipment in conformance with the specifications of EIA Standard No. RS-232C.

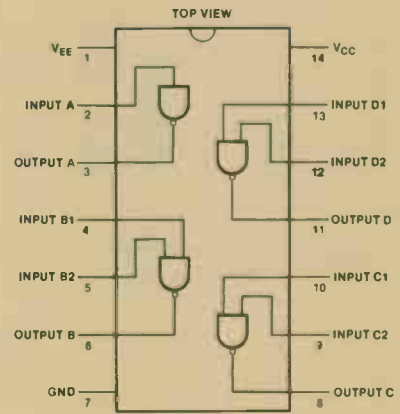
FEATURES

- Current Limited Output
±10 mA typ
- Power-Off Source Impedance
300 Ohms min
- Simple Slew Rate Control with External Capacitor
- Flexible Operating Supply Range

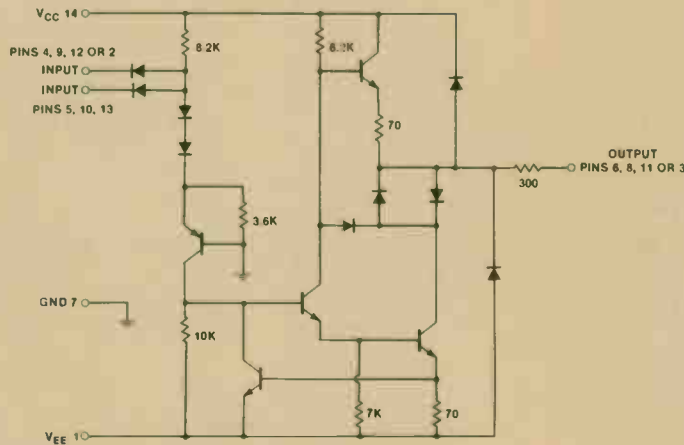
ABSOLUTE MAXIMUM RATINGS

Supply Voltage (V_{CC})	15 V
(V_{EE})	-15 V
Output Signal Voltage (VO)	±15 V
Power (PD)	1 W
Input Current-Low Logic State ($V_{IL} = 0$) (See Fig. 8)	1.6 mA
Input Current-High Logic State ($V_{IH} = 5.0V$) (See Fig. 8)	10 μ A
Output Resistance ($V_{CC} = V_{EE} = 0/V_{OL} = \pm 2.0V$ (See Fig. 11)	300 Ω
Operating Temperature Range (TA)	0°C To +75°C
Storage Temperature Range (T _{stg})	-65°C To +175°C

PIN CONNECTION



INTERNAL CIRCUIT
($\frac{1}{4}$ of Circuit Shown)



TYPICAL CHARACTERISTICS

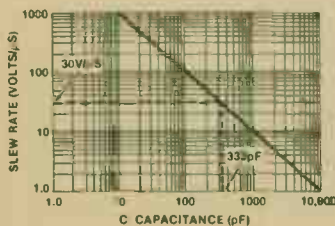


Figure 1—Slew Rate vs Capacitance for $I_{SC} = 10mA$

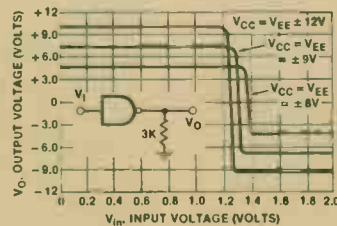


Figure 3—Transfer Characteristics vs Power-Supply Voltage

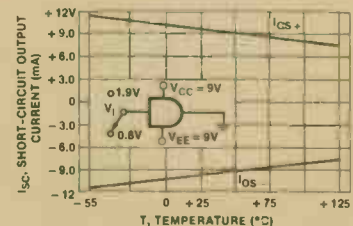


Figure 4—Short-Circuit Output Current vs Temperature

INTERFACE (DRIVER)

MC1488 276-2520

TYPICAL CHARACTERISTICS (Cont'd)

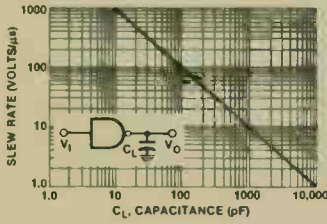


Figure 5—Output Slew Rate vs Load Capacitance

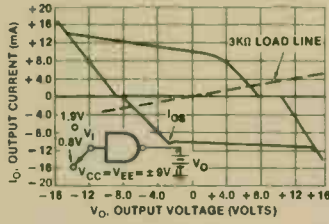


Figure 6—Output Voltage and Current-Limiting Characteristics

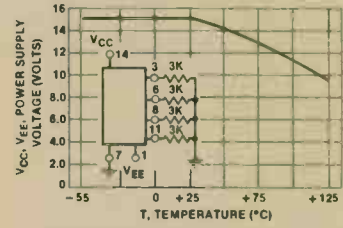
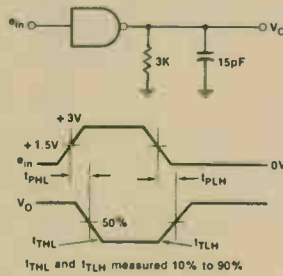


Figure 7—Maximum Operating Temperature vs Power-Supply Voltage



Switching Response

TEST CIRCUITS

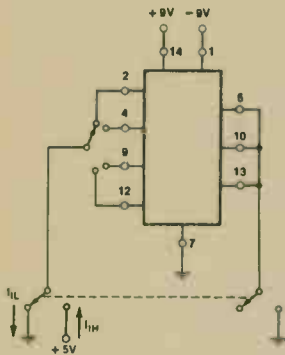


Figure 8—Input Current

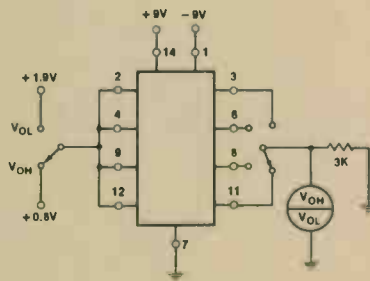


Figure 9—Output Voltage

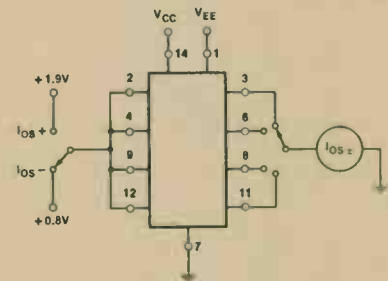


Figure 10—Output Short-Circuit Current

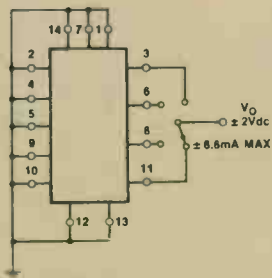


Figure 11—Output Resistance (Power-Off)

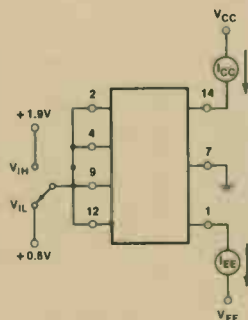


Figure 12—Power-Supply Currents

APPLICATIONS INFORMATION

The Electronic Industries Association (EIA) RS232C specification detail the requirements for the interface between data processing equipment and data communications equipment. This standard specifies not only the number and type of interface leads, but also the voltage levels to be used. The 1488 quad driver and its companion circuit, the 1489 quad receiver, provide a complete interface system between DTL or TTL logic levels and the RS232C defined levels. The RS232C requirements as applied to drivers are discussed herein.

The required driver voltages are defined as between 5 and 15-volts in magnitude and are positive for a logic "0" and negative for a logic "1". These voltages are so defined when the drivers are terminated with a 3000 to 7000-ohm resistor. The 1488 meets this voltage requirement by converting a DTL/TTL logic level into RS232C levels with one stage of inversion.

The RS232C specification further requires that during transitions, the driver output slew rate must not exceed 30 volts per microsecond. The inherent slew rate of the 1488 is much too fast for this requirement. The current limited output of the device can be used to control this slew rate by connecting a capacitor to each drive output. The required capacitor can be easily determined by using the relationship $C = I_{OS} \times \Delta T / \Delta V$ from which Figure 1 is derived. Accordingly, a 330-pF capacitor on each output will guarantee a worst case slew rate of 30 volts per microsecond.

The interface driver is also required to withstand an accidental short to any other conductor in an interconnecting cable. The worst possible signal on any conductor would be another driver using a plus or minus 15-volt, 500-mA source. The 1488 is designed to indefinitely withstand such a short to all four outputs in a package as long as the power-supply voltages are greater than 9.0 volts (i.e., $V_{CC} \geq 9.0 V$; $V_{EE} \leq -9.0 V$). In some power-supply designs, a loss of system power causes a low impedance on the power-supply outputs. When this occurs, a low impedance to ground would exist at the power inputs to the 1488 effectively shorting the 300-ohm output resistors to ground. If all four outputs were then shorted to plus or minus 15 volts, the power dissipation in these resistors would be excessive. Therefore, if the system is designed to permit low impedances to ground at the power-supplies of the drivers, a diode should be placed in each power-supply lead to prevent overheating in this fault condition. These two diodes, as shown in Figure 2, could be used to decouple all the driver packages in a system. (These same diodes will allow the 1488 to withstand momentary shorts to the ± 25 -volt limits specified in the earlier Standard RS232E.) The addition of the diodes also permits the 1488 to withstand faults with power-supplies of less than the 9.0 volts stated above.

The maximum short-circuit current allowable under fault conditions is more than guaranteed by the previously mentioned 10 mA output current limiting.

OTHER APPLICATIONS

The 1488 is an extremely versatile line driver with a myriad of possible applications. Several features of the drivers enhance this versatility:

1. Output Current Limiting—this enables the circuit designer to define the output voltage levels independent of power-supplies and can be accomplished by diode clamping of the output pins. Figure 14 shows the 1488 used as a DTL to MOS translator where the high-level voltage output is clamped one diode above ground. The resistor divider shown is used to reduce the output voltage below the 300 mV above ground MOS input level limit.

2. Power-Supply Range—as can be seen from the schematic drawing of the drivers, the positive and negative driving elements of the device are essentially independent and do not require matching power-supplies. In fact, the positive supply can vary from a minimum seven volts (required for driving the negative pulldown section) to the maximum specified 15 volts. The negative supply can vary from approximately -2.5 volts to the minimum specified -15 volts. The 1488 will drive the output to within 2 volts of the positive or negative supplies as long as the current output limits are not exceeded. The combination of the current-limiting and supply-voltage features allow a wide combination of possible outputs within the same quad package. Thus if only a portion of the four drivers are used for driving RS232C lines, the remainder could be used for DTL to MOS or even DTL or DTL translation. Figure 15 shows one such combination.

TYPICAL APPLICATIONS

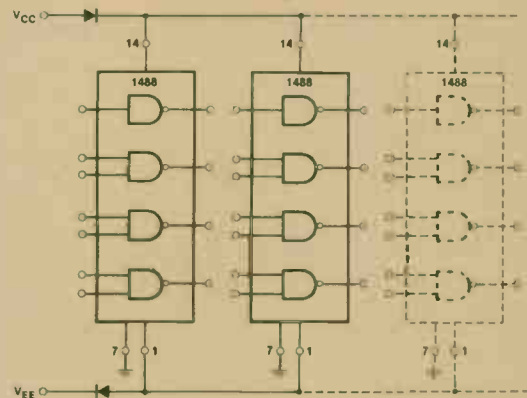
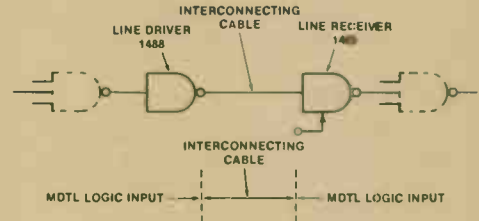


Figure 2—Power Supply Protection to Meet Power-Off Fault Conditions

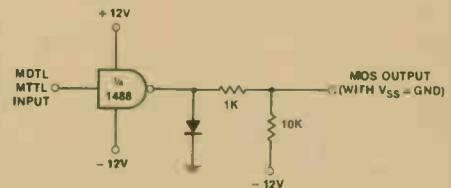


Figure 14—MDTL/MTTL-to-MOS Translator

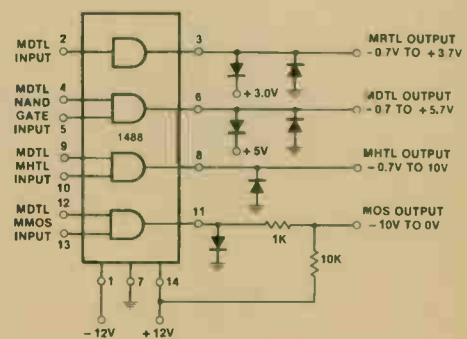


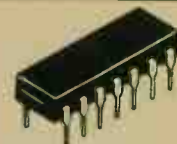
Figure 15—Logic Translator Applications

INTERFACE (RECEIVER)

MC1489

276-2521

QUAD LINE RECEIVER



GENERAL DESCRIPTION

The 1489 monolithic quad line receiver is designed to interface data terminal equipment with data communications equipment in conformance with specifications of EIA Standard No. RS-232C.

FEATURES

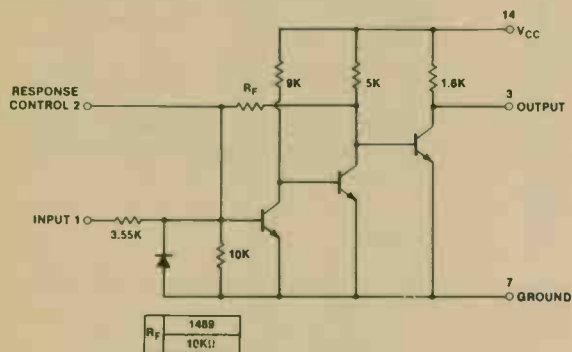
- Input Resistance—3.0 k to 7.0 K ohms
- Input Signal Range—±30 Volts
- Input Threshold Hysteresis Built In
- Response Control
 - a) Logic Threshold Shifting
 - b) Input Noise Filtering

ABSOLUTE MAXIMUM RATINGS

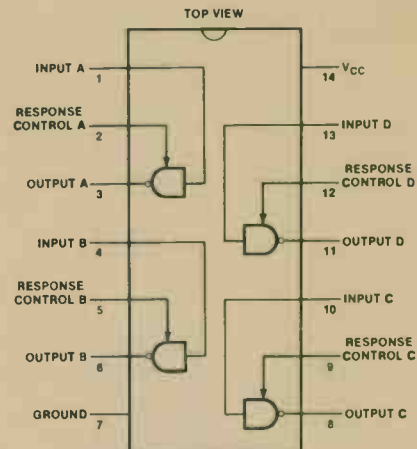
Supply Voltage (V_{CC})	10 V
Input Voltage Range (V_{IR})	±30 V
Output Load Current (I_L)	20 mA
Power Dissipation (P_D)	1 W
Operating Temperature Range (T_A)	0°C To +75°C
Storage Temperature Range (T_{stg})	-65°C To +175°C

INTERNAL CIRCUIT

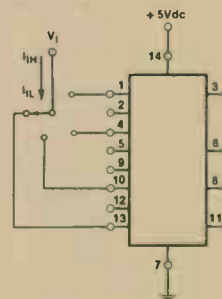
(1/4 of Circuit Shown)



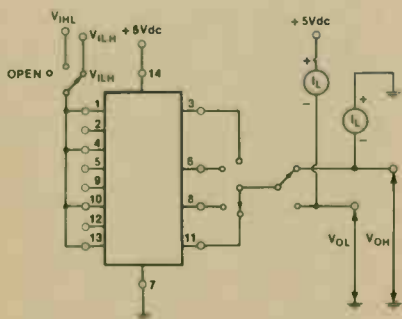
PIN CONNECTION



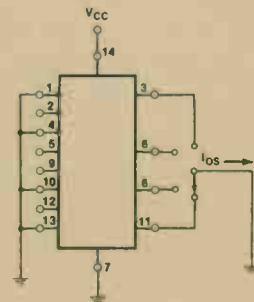
TEST CIRCUITS



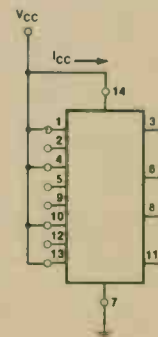
Input Current



Output Voltage and Input Threshold Voltage

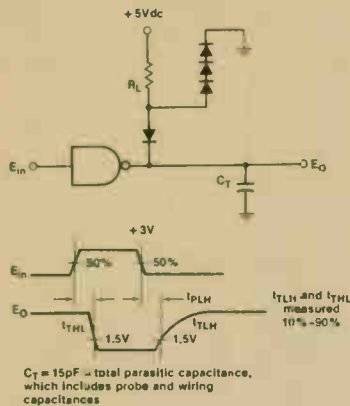


Output Short-Circuit Current



Power-Supply Current

TYPICAL CHARACTERISTICS



Switching Response

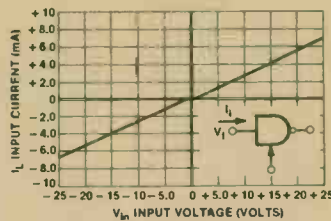


Figure 1—Input Current

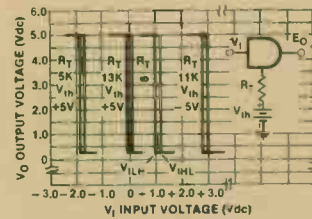


Figure 2—Input Threshold Voltage Adjustment

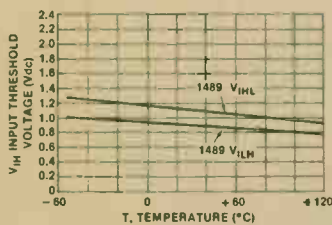


Figure 3—Input Threshold Voltage vs Temperature

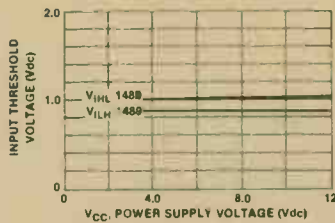


Figure 4—Input Threshold vs Power—Supply Voltage

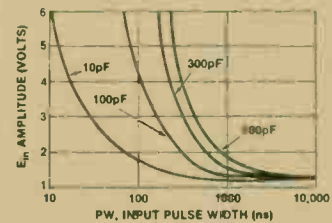


Figure 5—Turn-on Threshold vs Capacitance from Response Control Pin to Gnd

APPLICATIONS INFORMATION

The Electronic Industries Association (EIA) has released the RS-232C specification detailing the requirements for the interface between data processing equipment and data communications equipment. This standard specifies not only the number and type of interface leads, but also the voltage levels to be used. The 1488 quad driver and its companion circuit, the 1489 quad receiver, provide a complete interface system between DTL or TTL logic levels and the RS-232C defined levels. The RS-232C requirements as applied to receivers are discussed here. The required input impedance is defined as between 3000 ohms and 7000 ohms for input voltages between 3.0 and 25 volts in magnitude; and any voltage on the receiver input in an open circuit condition must be less than 2.0 volts in magnitude. The 1489 circuits meet these requirements with a maximum open circuit voltage of one V_{BE} .

The receiver shall detect a voltage between -3.0 and -25 volts as a logic "1" and input between $+3.0$ and $+25$ volts as a logic "0". On some interchange leads, an open circuit or power "OFF" condition (300 ohms or more to ground) shall be decoded as an "OFF" condition or logic "1". For this reason, the input hysteresis thresholds of the 1489 circuits are all above ground. Thus an open or grounded input will cause the same output as a negative of logic "1" input.

TYPICAL APPLICATIONS

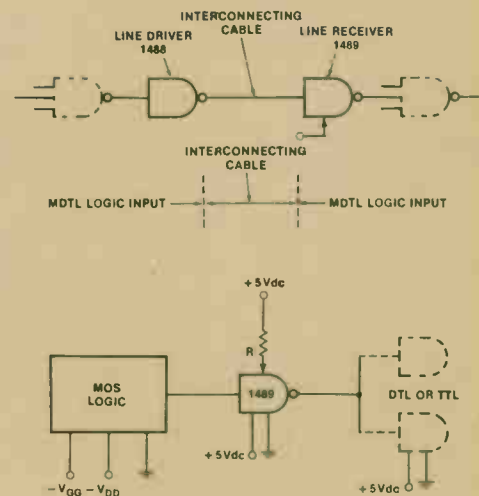
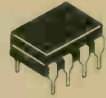


Figure 7—Typical Translator Application—MOS to DTL or TTL

LINC MOS (A TO D CONVERTER)

TLC548
276-1796

8-BIT ANALOG TO DIGITAL CONVERTER



GENERAL DESCRIPTION

The TLC548 8-bit Analog-to-Digital Converter is a complete data acquisition system on a single chip. It is designed for serial interface with a microprocessor, peripheral, or digital logic circuitry through 3-state Data Output, Chip Select, and I/O Clock control signals.

FEATURES

- Versatile control logic
- An on-chip sample-and-hold circuit that can operate automatically or under microprocessor control
- A high-speed converter with differential high-impedance reference voltage inputs that facilitate ratiometric conversion and scaling, while isolating the conversion circuitry from logic and supply noises.
- The TLC548 provides low-error conversion of ± 0.5 least-significant bit (LSB) in less than 17 microseconds.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V_{CC} (See Note 1)	6.5 V
Input Voltage Range (Any Input)	- 0.3 V to $V_{CC} + 0.3$ V
Output Voltage Range	- 0.3 V to $V_{CC} + 0.3$ V
Operating free-air Temperature Range	- 40°C to 85°C

NOTES: 1. All voltage values are with respect to network ground terminal with the REF- and GND terminal pins connected together, unless otherwise noted.

Overview of Operation

The TLC548 is a complete data acquisition system and it includes such functions as an internal System Clock, Sample-and-hold, 8-bit A/D converter, Data register, Control logic, I/O Clock, and a Chip Select (\overline{CS}).

These control inputs and a 3-state data output facilitate serial communications with a microprocessor or minicomputer. A conversion can be completed in a maximum of 17 microseconds, while total access and conversion time is a maximum of 25 microseconds.

The internal System Clock and I/O Clock are used independently and require no special speed or phase relationship. This simplifies the hardware and software control tasks for the device. Because of this independence and the internal generation of the System Clock, the microprocessor and software need only read the previous conversion result and start the conversion with the I/O Clock. The internal System Clock drives the "conversion-crunching" circuitry.

When \overline{CS} is high, the Data Output pin is in a high-impedance condition and the I/O Clock pin is disabled.

This condition allows each of these pins to share a control logic point with its counterpart pin when additional TLC548 devices are used.

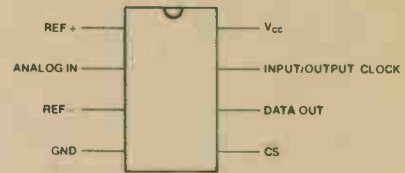
Typical Control Sequence

The control sequence has been designed to minimize the time and effort required to initiate conversion and obtain the conversion result.

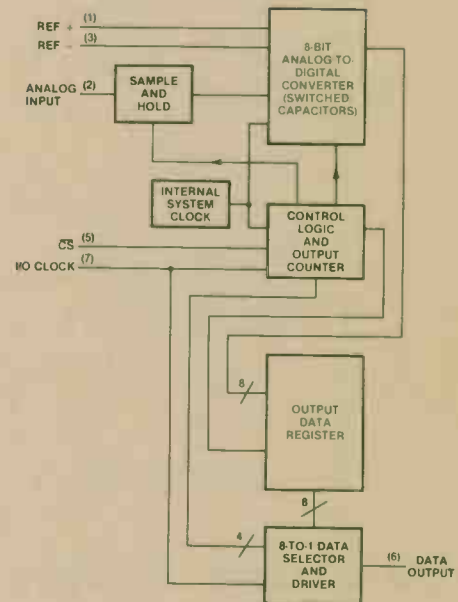
A typical control sequence consists of the following steps.

1. \overline{CS} (Chip Select) is brought low.
After a \overline{CS} transition (from high to low), the internal circuitry of the TLC548 waits for two rising edges and then one falling edge of the internal System Clock before recognizing the transition. This delay minimizes errors caused by noise at the \overline{CS} input. The most-significant bit (MSB) of the result of the previous conversion then appears on the Data Output pin.
2. The negative edges of the first four I/O Clocks shift out the 2nd, 3rd, 4th, and 5th most-significant bits of the result of the previous conversion.
3. The on-chip sample-and-hold begins sampling the analog input after the 4th falling edge.
This operation basically involves the charging of internal capacitors to the voltage level of the analog input.

PIN CONNECTION



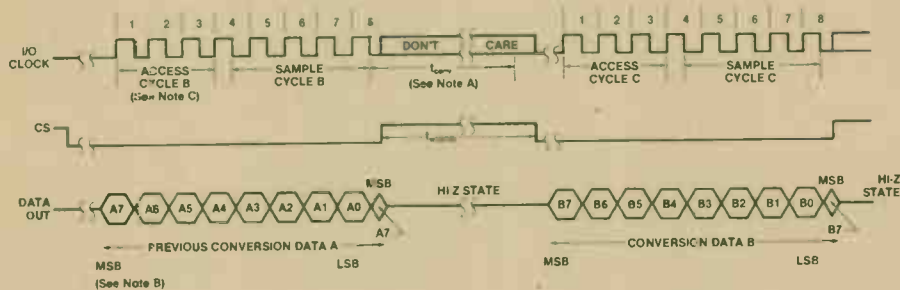
BLOCK DIAGRAM



Typical Control Sequence (cont.)

4. Three more clock cycles are applied to the I/O pin.
The 6th, 7th, and 8th bits of the result of the previous conversion are shifted out on the negative edges of these clock cycles.
5. The 8th and final clock cycle is applied to the I/O Clock pin.
The falling edge of this clock cycle completes the analog sampling process and initiates the hold function.
6. Conversion is performed during the next 36 System Clock cycles.
After the final I/O Clock cycle, \overline{CS} must go high or the I/O Clock must remain low for at least 36 System Clock cycles to allow for the conversion function.

The operating sequence is illustrated below.

Operating Sequence

- NOTES: A. The conversion cycle is initiated with the trailing edge of the 8th I/O Clock pulse after \overline{CS} goes low.
- B. The most-significant bit (MSB) is then placed on the DATA OUT pin after \overline{CS} is brought low. The remaining seven bits (A6-A0) are shifted out on the first seven I/O Clock falling edges.
- C. To minimize errors caused by noise on the \overline{CS} signal, the internal circuitry waits for two rising edges and then one falling edge of the Internal System Clock (1.4 μ s at 2 MHz) after a Chip Select transition before responding to control input signals. Therefore, no attempt should be made to shift out conversion data until the minimum Chip Select setup time has elapsed.

Keeping \overline{CS} Low During Multiple Conversions

\overline{CS} can be kept low during periods of multiple conversions.

If \overline{CS} is taken high, it must remain high until the end of the conversion. Otherwise, a valid falling edge of \overline{CS} will cause a reset condition, aborting the conversion in process.

Stopping an Ongoing Conversion

An ongoing conversion can be stopped and a new conversion started by performing steps 1 thru 6 listed under typical control sequence before the 36 System Clock cycles occur. Such an action yields the conversion result of the previous conversion, not the ongoing conversion.

Starting Conversion at a Specific Time

For certain applications such as strobing, it is necessary to start conversion at a specific point in time. The TLC548 will accommodate these applications.

To trigger a conversion at a specific point in time, control hardware or software must manipulate the 8th I/O clock cycle. The sequence for a conversion at a desired instant is:

- I. The on-chip sample-and-hold operation waits for the falling edge of the 4th I/O clock cycle and begins sampling. The TLC548 follows the analog input but does not hold it yet.
- II. When the 8th I/O clock cycle is high, control hardware or software must keep it high until the desired instant.
- III. At the desired instant, control hardware or software must lower the clock. The falling edge of the 8th I/O clock cycle causes the input to be held and initiates the conversion.

LINCOS (A TO D CONVERTER)

TLC 548 276-1796

Intel 8051/52 Serial Port Interface Operating Sequence

The serial data for the conversion result from the TLC548 enters the microprocessor through the RXD pin. By using the inverted TXD shift clock as an I/O Clock for the TLC548, previous conversion data can be transferred to the microprocessor.

The serial port's Mode 0 state is used to permit 8-bit transmission and reception. The TLC548 sends the most-significant bit of the conversion result first; the serial buffer receives this bit as the least-significant bit. The software then reverses the conversion bits and places them in the proper order.

The timing consists of the following three major phases:

1. After CS goes low, eight I/O Clock cycles access and sample the new analog input. At the same time, I/O Clock falling edges bring out the previous conversion result.
2. Conversion begins when the eighth I/O Clock goes low. Conversion requires 36 internal System Clock cycles after the eighth I/O Clock goes low. The maximum conversion time is 17 microseconds.
3. Eight falling edges of the I/O Clock bring out the previous conversion result.

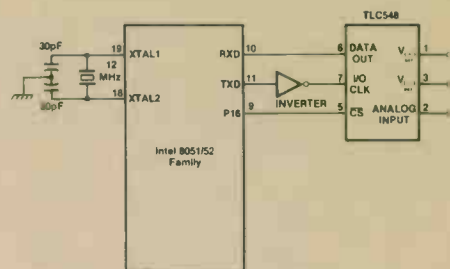
Interface Control Software

```

ACALL SR549D      ; Access, sample and hold new analog
                  ; signal.
                  ;
                  ; Delay must occur here to allow the
                  ; A/D chip to complete conversion. The
                  ; delay must allow 36 A/D chip internal
                  ; System Clock cycles to occur.
                  ; Conversion requires maximum of 17
                  ; microseconds.

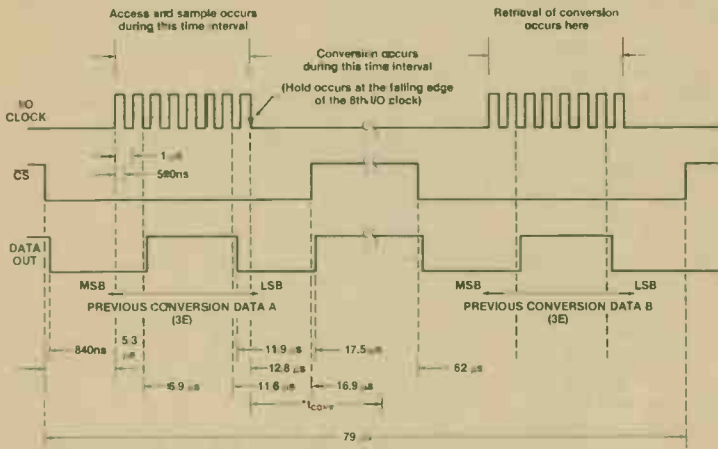
ACALL SR549D      ; Access, sample and hold new analog
                  ; signal. Bring out previous conversion
                  ; result.
                  ; Serial port read reverses data
                  ; conversion bits coming to micro-
                  ; processor so that they are in the following
                  ; order: b0(LSB), b1, b2, b3, b4, b5, b6
                  ; b7(MSB). These bits and Carry bit
                  ; (C) are presented in the following
                  ; instruction comments so the reader
                  ; understands the technique used to
                  ; place bits in proper order.

RLC A              ; 6543210C 7; b7 is now in Carry
RLC A              ; 543210C7 6; b6 is now in Carry
MOV ACC.1,C       ; 54321067 6; put b6 into ACC.1
MOV C,ACC.2       ; 54321067 0; put b0 into C
RLC A              ; 43210670 5; b5 is now in Carry
MOV ACC.3,C       ; 43215670 5; put b5 into ACC.3
MOV C,ACC.4       ; 43215670 1; put b1 into C
RLC A              ; 32156701 4; b4 is now in Carry
MOV ACC.5,C       ; 32456701 4; put b4 into ACC.5
MOV C,ACC.6       ; 32456701 2; put b2 into C
RLC A              ; 24567012 3; b3 is now in Carry
MOV ACC.7,C       ; 34567012 3; put b3 into ACC.7
RL A              ; 45670123 ; prepare for SWAP A
SWAP A            ; 01234567 ; bits ordered correctly
                  ; Conversion result is in Accumulator
                  ;
                  ; Subroutine ACALL
SR549D CLR P1.6   ; Lower Chip Select
ORL SCON,#10H    ; Set REN
ANL SCON,#FEH    ; Reset R1
JNB SCON.0,RCV   ; R1 flag not set; branch
                  ; until reception is complete.
CPL P1.6         ; Raise Chip Select
RET              ; Conversion is in SBUF
END
    
```

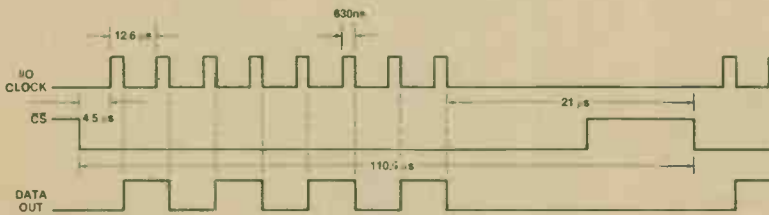


The Operating Sequence (cont.)

This interface is ideal if the Intel microprocessor's serial port does not have to be used for another purpose. However, if another purpose is required by the serial port, the microprocessor's serial port may be multiplexed so that both the TLC548 and the additional purpose may be accommodated.



Circuit Timing for Intel 8051/52



Z80A Interface

The Z80A interface is an economical solution, offering efficient control software and communications with the TLC548.

Required Software

A simple program segment that reads in a previous conversion result and starts a conversion is shown below. Placing this program segment in a loop makes it possible to initiate a conversion and read previous conversion results in 111 microseconds.

```

LD C,08H      ; Load bit counter
LD B,00H      ; Initialize result register
OUT (CSLOW),A ; Bring Chip Select low
LOOP  RLC B    ; Rotate result register left
      IN A,[BIT] ; Read in a bit & shift next
      AND 01H  ; Mask off bit 0
      OR  B    ; Or new bit with result
      LD B,A   ; Store in result register
      DEC C   ; Decrement bit counter
      JP NZ,LOOP ; Get another bit if not zero
      OUT (CSHIGH),A ; Bring Chip Select high
    
```

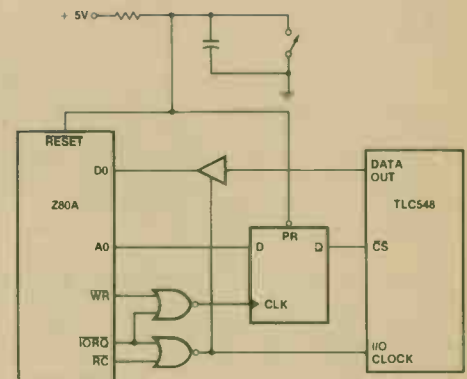
The Operating Sequence

Latching in a low from address bit A0 brings Chip Select low. Execution of an IN instruction causes RD and IORQ to become active, generating one I/O Clock pulse. A data bit is read in just before the falling edge of the I/O Clock pulse. The falling edge shifts out the next data bit.

Sampling of analog input begins at the falling edge of the 4th I/O Clock and continues until the falling edge of the 8th I/O Clock. At that time, conversion begins; conversion requires 17 microseconds.

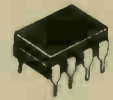
CS is brought high after the 8th I/O Clock to disable all inputs and outputs so that conversion may proceed undisturbed.

Microprocessor Interface



LINC MOS (TIMER)

TLC555 TIMER 276-1718



GENERAL DESCRIPTION

The TLC555 is a monolithic timing circuit fabricated using the Lin CMOS™ process. Due to its high-impedance inputs (typically $10^{12}\Omega$), it is capable of producing accurate time delays and oscillations while using less expensive, smaller timing capacitors. The TLC555 achieves both monostable (using one resistor and one capacitor) and astable (using two resistors and one capacitor) operation. In addition, 50% duty cycle astable operation is possible using only a single resistor and one capacitor. The Lin CMOS™ process allows the TLC555 to operate at frequencies up to 2 MHz and be fully compatible with CMOS, TTL, and MOS logic. It also provides very low power consumption (typically 1 mW at $V_{DD} = 5V$) over a wide range of supply voltages ranging from 2 volts to 18 volts.

Threshold and trigger levels are normally two-thirds and one-third respectively of V_{DD} . These levels can be altered by use of the control voltage terminal. When the trigger input falls below trigger level, the flip-flop is set and the output goes high. If the trigger input is above the trigger level and the threshold input is above the threshold level, the flip-flop is reset and the output is low. The reset input can override all other inputs and can be used to initiate a new timing cycle. When the reset input goes low, the flip-flop is reset and the output goes low. Whenever the output is low, a low impedance path is provided between the discharge terminal and ground.

While the complementary CMOS OUTPUT is capable of sinking over 100 mA and sourcing over 10 mA, the TLC555 exhibits greatly reduced supply current spikes during output transitions.

FEATURES

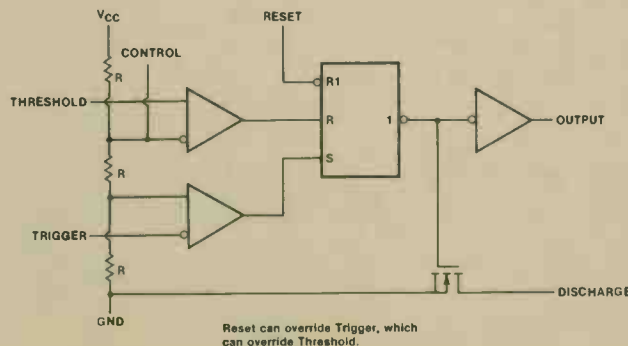
- Very low power consumption (1 mW typical at $V_{DD} = 5V$)
- Capable of very high-speed operation (2 MHz in a stable operation)
- Complementary CMOS output capable of swinging rail to rail
- High output-current capability (sink 100 mA typical) (source 10 mA typical)
- Output fully CMOS, TTL, and MOS-compatible
- Low supply current reduces spikes during output transitions
- High impedance input $10^{12}\Omega$ typical)
- Single supply operation from 2 to 18 volts

ABSOLUTE MAXIMUM RATINGS

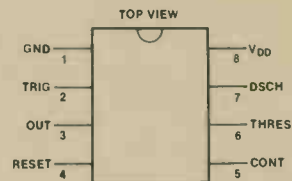
Supply Voltage (V_{DD}) (See Note 1)	18 V
Input Voltage Range (Any Input)	-0.3 V To 18 V
Power Dissipation (mW)	600mW
Operating Temperature Range	0°C To 70°C
Storage Temperature Range	-65°C To 150°C

NOTES: 1. All voltage values are with respect to network ground terminal.

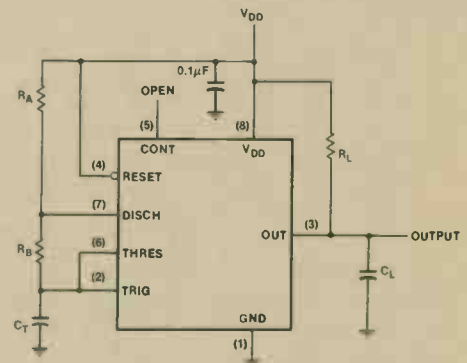
BLOCK DIAGRAM



PIN CONNECTION



TYPICAL APPLICATION



Circuit for Astable Operation



8 WATT AUDIO POWER AMPLIFIER

383
276-703

GENERAL DESCRIPTION

The 383 is a cost effective, high power amplifier suited for automotive applications. High current capability (3.5A) enables the device to drive low impedance loads with low distortion. The 383 is current limited and thermally protected. The 383 comes in a 5-pin TO-220 package.

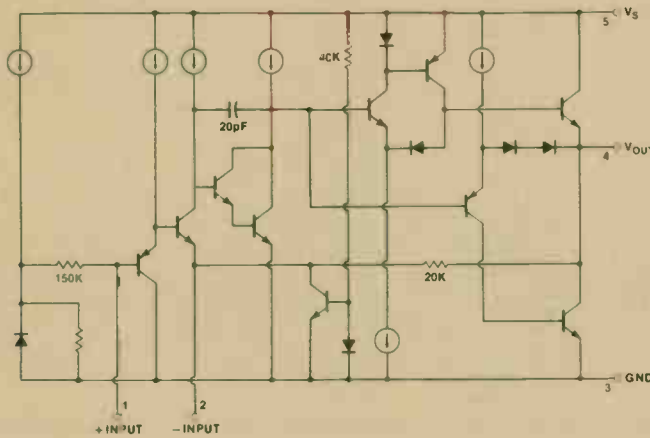
FEATURES

- High peak current capability (3.5A)
- Large output voltage swing
- Externally programmable gain
- Wide supply voltage range (5V–20V)
- Few external parts required
- Pin for pin compatible with TDA2002
- Low distortion
- High input impedance
- No turn-on transients
- Low noise
- Short circuit protected

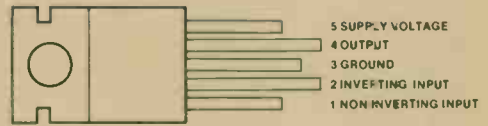
ABSOLUTE MAXIMUM RATINGS

Peak Supply Voltage (50 ms)	25V
Operating Supply Voltage	20V
Output Current	
Repetitive	3.5A
Non-repetitive	4.5A
Input Voltage	±0.5V
Power Dissipation	1.5W
Operating Temperature	0 to +70°C
Storage Temperature	-60 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

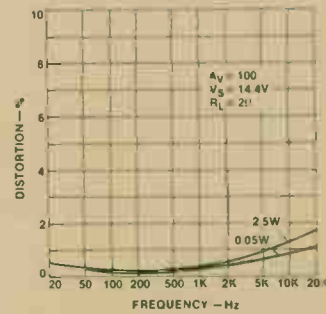
INTERNAL CIRCUIT



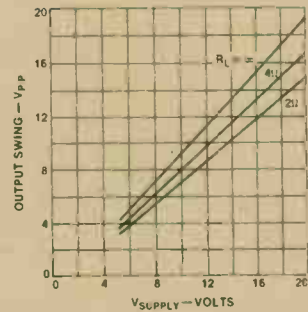
PIN CONNECTION



TYPICAL CHARACTERISTICS

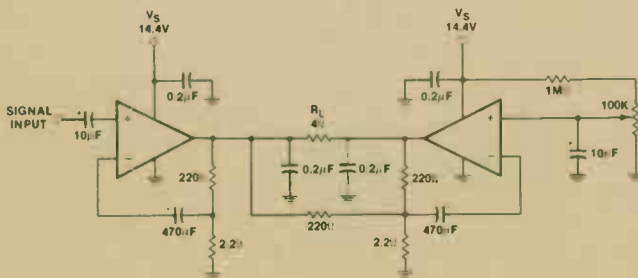


Distortion vs Frequency

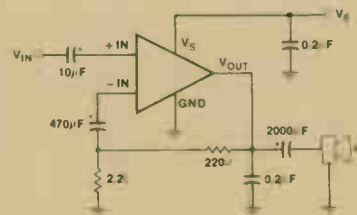


Output Swing vs Supply Voltage

TYPICAL APPLICATIONS



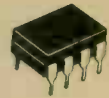
16W Bridge Amplifier



Basic Audio Amp

386
276-1731

LOW VOLTAGE AUDIO POWER AMPLIFIER



GENERAL DESCRIPTION

The 386 is a power amplifier designed for use in low voltage consumer applications. The gain is internally set to 20 to keep external part count low, but the addition of an external resistor and capacitor between pins 1 and 8 will increase the gain to any value up to 200.

The inputs are ground referenced while the output is automatically biased to one half the supply voltage. The quiescent power drain is only 18 milli-watts when operating from a 6 volt supply, making the 386 ideal for battery operation.

FEATURES

- Battery operation
- Minimum external parts
- Wide supply voltage range 4-12 volts
- Low quiescent current drain 3 mA
- Voltage gains from 20 to 200
- Ground referenced input
- Self-centering output quiescent voltage
- Low distortion
- Eight pin dual-in-line package

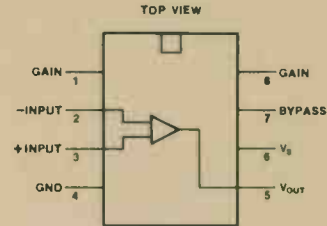
APPLICATIONS

- AM-FM radio amplifiers
- Portable tape player amplifiers
- Intercoms
- TV sound systems
- Line drivers
- Ultrasonic drivers
- Small servo drivers
- Power converters

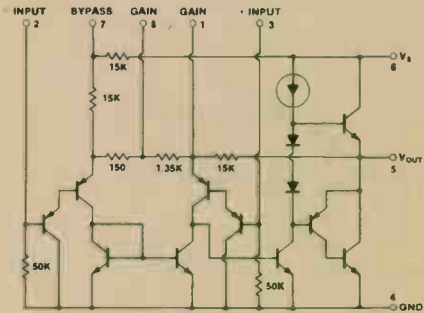
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	15V
Package Dissipation 8 Pin DIP	660 mW
Input Voltage	±0.4V
Junction Temperature	+150°C
Operating Temperature	0 to +70°C
Storage Temperature	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	+300°C

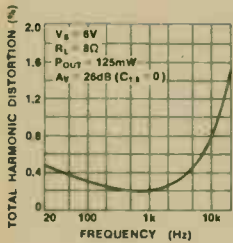
PIN CONNECTION



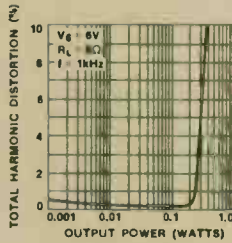
INTERNAL CIRCUIT



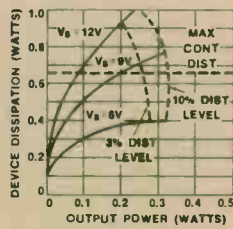
TYPICAL CHARACTERISTICS



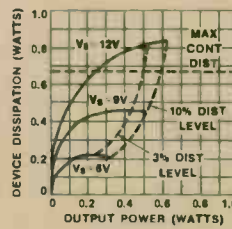
Distortion vs Frequency



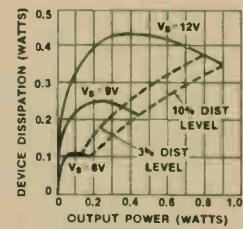
Distortion vs Output Power



Device Dissipation vs Output Power—4 Ω Load

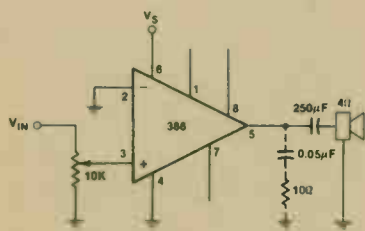


Device Dissipation vs Output Power—8 Ω Load

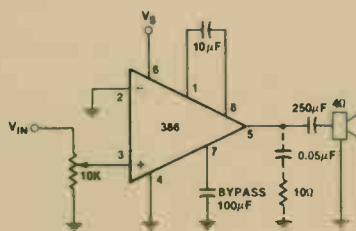


Device Dissipation vs Output Power—16 Ω Load

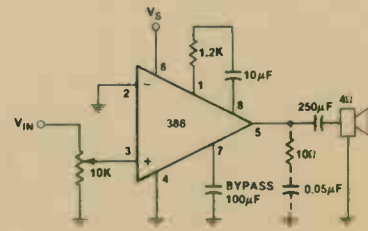
TYPICAL APPLICATIONS



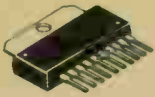
Amplifier with Gain = 20 (Minimum Parts)



Amplifier with Gain = 50



Amplifier with Gain = 200



5.8W AUDIO POWER AMPLIFIER

TA7205AP
276-705

GENERAL DESCRIPTION

The TA7205AP is a monolithic audio power amplifier with a built in thermal shut-down circuit designed for car radio and stereo applications.

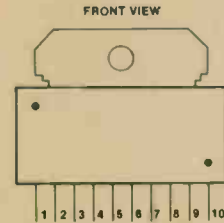
FEATURES

- Low distortion
 THD=0.15% (Typ.) (@ $P_{OUT}=1W$, $G_V=55dB$)
 THD=0.07% (Typ.) (@ $P_{OUT}=1W$, $G_V=44dB$)
- Operating supply voltage range: $V_{CC}=9\sim 18V$
- 'PCT' process to insure low noise characteristic
- Current limiting for short-circuit protection
- Built in thermal shut-down circuit
- Built in surge voltage protection circuit

ABSOLUTE MAXIMUM RATINGS

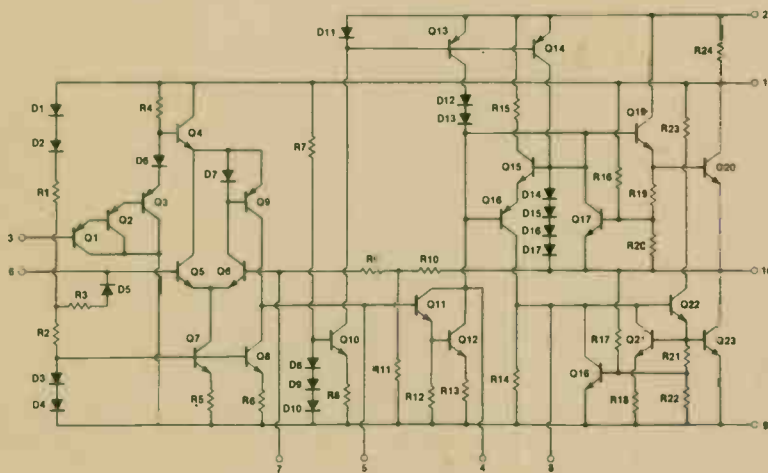
Operating Supply Voltage (V_{CC})	18V
Quiescent Supply Voltage (V_{CCQ})	25V
Output Peak Current (I_O)	4.5A
Quiescent Current (I_{CCQ})	80mA
Operating Temperature	-20 to +75°C
Storage Temperature	-55 to +150°C

PIN CONNECTION

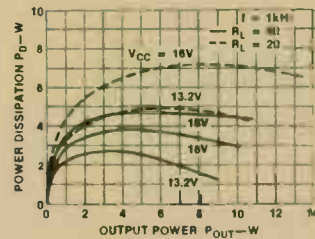


PIN	FUNCTION
1	V+
2	BOOTSTRAP
3	DECOUPLING
4	PHASE COMPENSATION
5	PHASE COMPENSATION
6	INPUT
7	NEGATIVE FEEDBACK
8	PHASE COMPENSATION
9	GROUND
10	OUTPUT

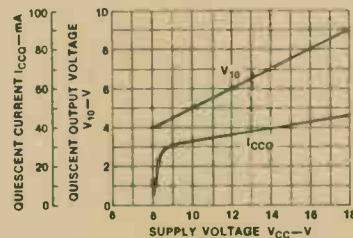
INTERNAL CIRCUIT



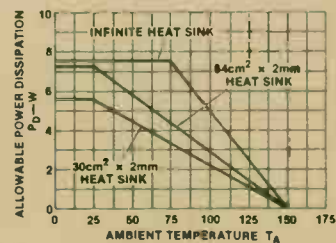
TYPICAL CHARACTERISTICS



Power Dissipation vs Output Power

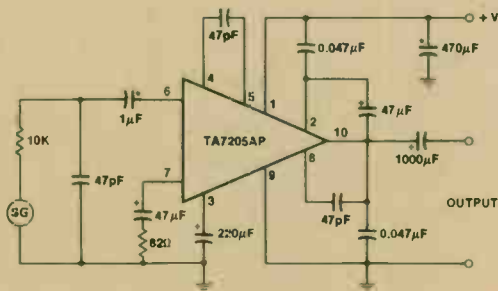


Quiescent Current and Output Voltage vs Supply Voltage



Allowable Power Dissipation vs Ambient Temperature

TYPICAL APPLICATION



5 Watt Audio Amplifier

TDA1520A
276-1305

20W HI-FI AUDIO AMPLIFIER

GENERAL DESCRIPTION

The TDA1520A is a monolithic integrated hi-fi audio power amplifier designed for asymmetrical or symmetrical power supplies. The circuit can deliver output power up to 20 watts into 4 and 8 ohm speakers and is intended for use in audio and television.

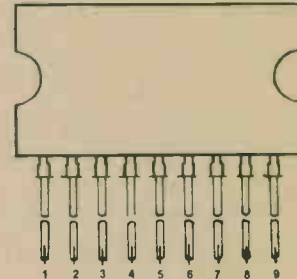
FEATURES

- Low input offset voltage
- Output stage with low cross-over distortion
- A.C. short-circuit protected
- Very low internal thermal resistance
- Thermal protection
- Very low intermodulation distortion
- Very low transient intermodulation distortion

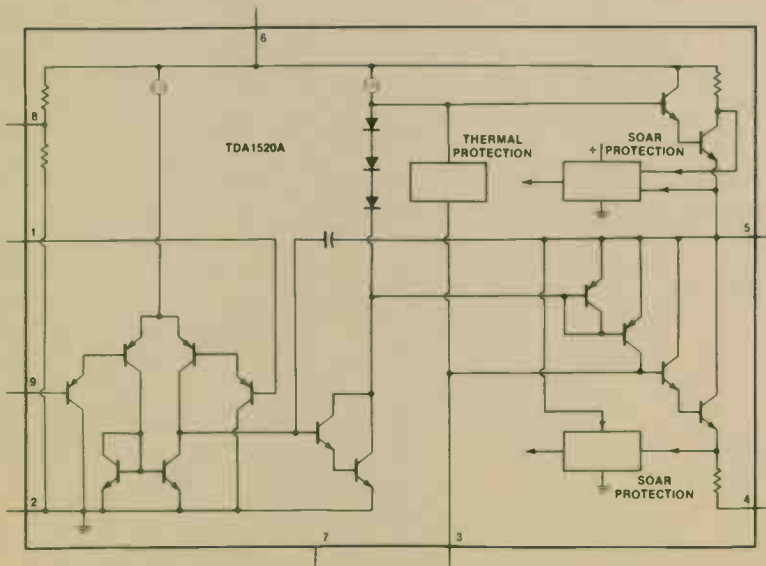
ABSOLUTE MAXIMUM RATINGS

Supply voltage (VP) 50 V
 Total quiescent current at Vp = 33 V (Itot) 70 mA
 Output power at d_{tot} = 0.5% sine-wave power
 Vp = 33 V; R_L = 4 Ω (PO) 20 W
 Vp = 42 V; R_L = 8 Ω (PO) 20 W
 Closed-loop voltage gain (externally determined) (Gc) 30 dB
 Input resistance (externally determined by R_{a-1}) (Ri) 20 kΩ
 Signal-to-noise ratio at P_o = 50 mW (S/N) 76 dB
 Supply voltage ripple rejection at f = 100 Hz (RR) 60 dB

PIN CONNECTION

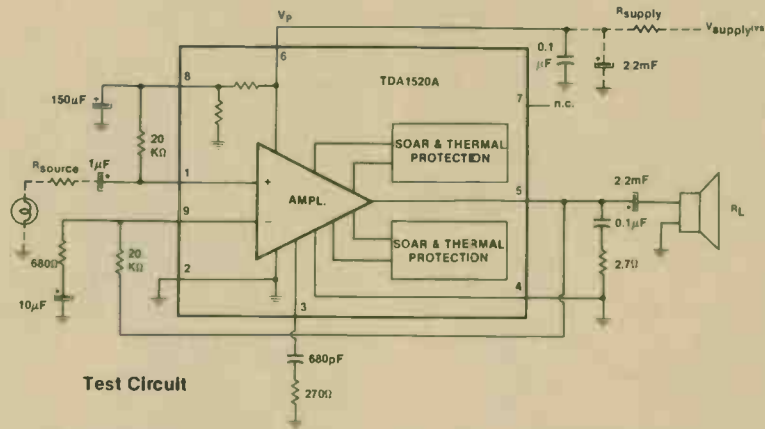


BLOCK DIAGRAM

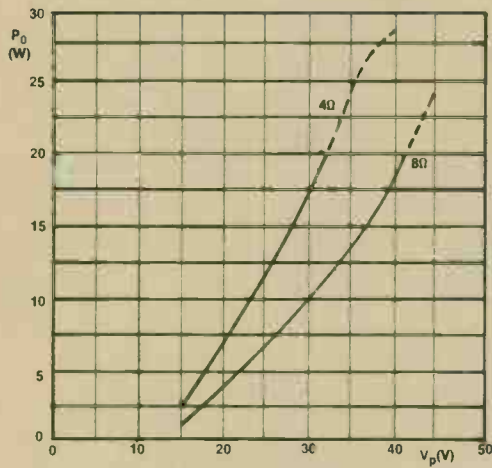


PIN	FUNCTION
1	Non-inverting input
2	Input ground (substrate)
3	Compensation
4	Negative supply (ground)
5	Output
6	Positive supply (V _p)
7	Not connected
8	Ripple rejection
9	Inverting input (feedback)

TYPICAL APPLICATION

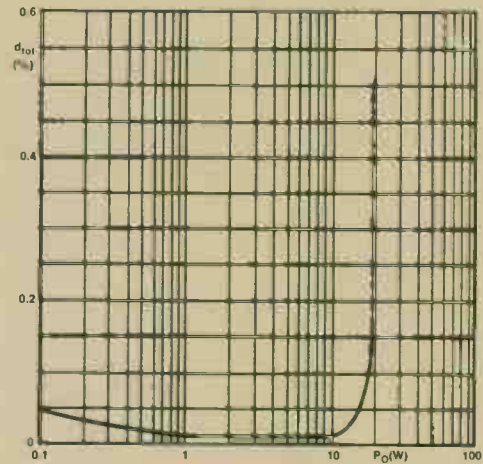


TYPICAL CHARACTERISTICS

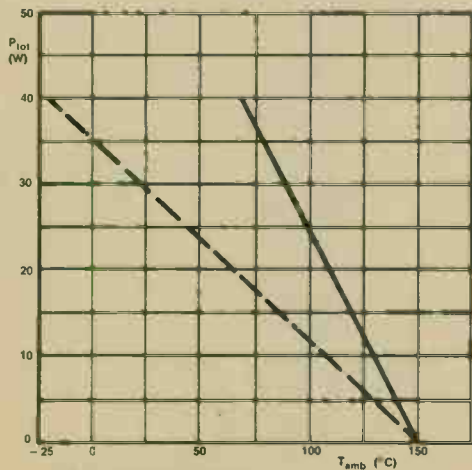


Output power (P_o) versus supply voltage (V_p) at $f = 1$ kHz, $d_{tot} = 0.5\%$, $G_v = 30$ dB.

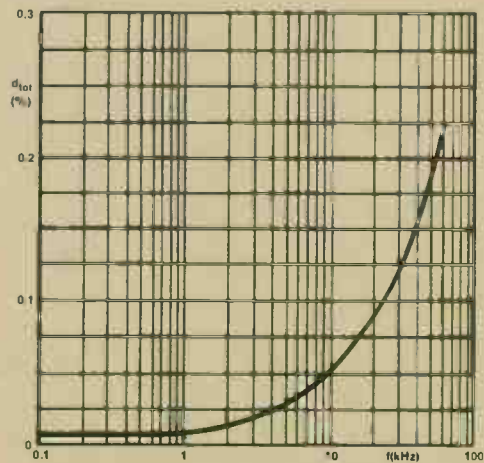
TYPICAL CHARACTERISTICS



Total harmonic distortion (d_{tot}) versus output power (P_o) at $V_p = 33$ V, $R_L = 4$ Ω, $f = 1$ kHz.



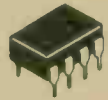
Power derating curves.
 ——— mounted on infinite heatsink.
 - - - mounted on heatsink of 2,3 K/W.



Total harmonic distortion (d_{tot}) versus operating frequency (f) at $V_p = 33$ V, $R_L = 4$ Ω, $P_o = 10$ W (constant).

353
276-1715

WIDE BANDWIDTH DUAL JFET INPUT OPERATIONAL AMPLIFIER



GENERAL DESCRIPTION

These devices are low cost, high speed, dual JFET input operational amplifiers with an internally trimmed input offset voltage (BI-FET II™) technology. They require low supply current yet maintain a large gain bandwidth product and fast slew rate. In addition, well matched high voltage JFET input devices provide very low input bias and offset currents.

These amplifiers may be used in applications such as high speed integrators, fast D/A converters, sample and hold circuits and many other circuits requiring low input offset voltage, low input bias current, high input impedance, high slew rate and wide bandwidth. The devices also exhibit low noise and off-set voltage drift.

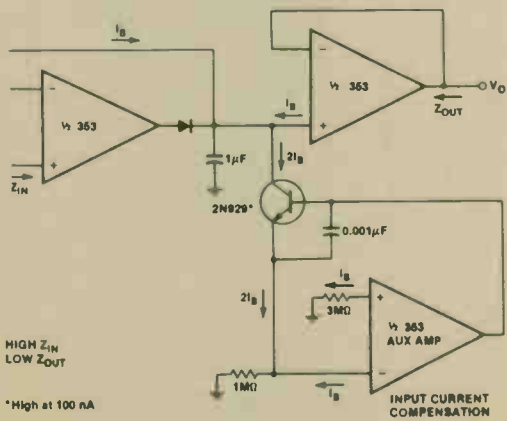
FEATURES

- Internally trimmed offset voltage = 2 mV
- Low input bias current = 50pA
- Low input noise voltage = 16nV/√Hz
- Low input noise current = 0.01 pA/√Hz
- Wide gain bandwidth = 4 MHz
- High slew rate = 13 V/μs
- Low supply current = 3.6 mA
- High input impedance = 10¹²Ω
- Low total harmonic distortion A_v = 10, R_L = 10k, V_O = 20 Vp-p, BW = 20 Hz–20kHz = <0.02%
- Low 1/f noise corner = 50 Hz
- fast settling time to 0.0% = 2μs

ABSOLUTE MAXIMUM RATINGS

Supply Voltage	±18V
Power Dissipation	500 mW
Differential Input Voltage	±30V
Input Voltage Range	±15V
Output Short Circuit Duration	Continuous
T _{J(MAX)}	115°C
Operating Temperature Range	0 to 70°C
Storage Temperature Range	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

TYPICAL APPLICATIONS



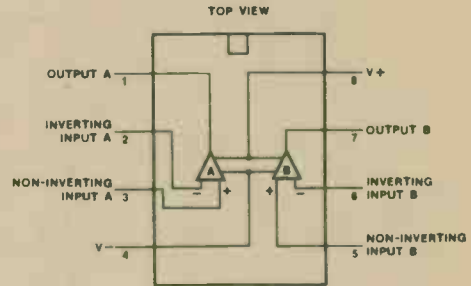
Low Drift Peak Detector

HIGH Z_{IN}
LOW Z_{OUT}

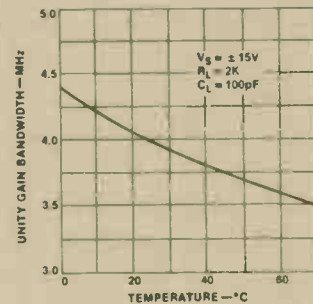
*High at 100 nA

INPUT CURRENT COMPENSATION

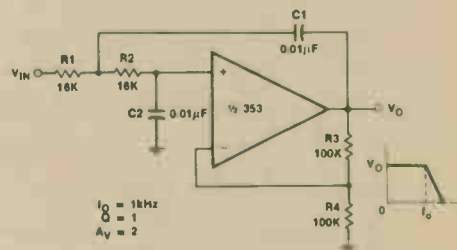
PIN CONNECTION



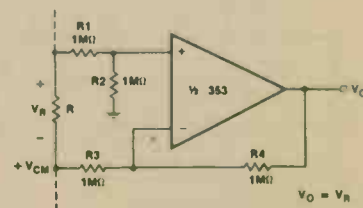
TYPICAL CHARACTERISTICS



Unity Gain Bandwidth vs Temperature

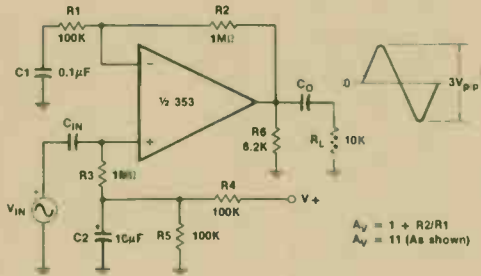


DC Coupled Low-Pass RC Active Filter

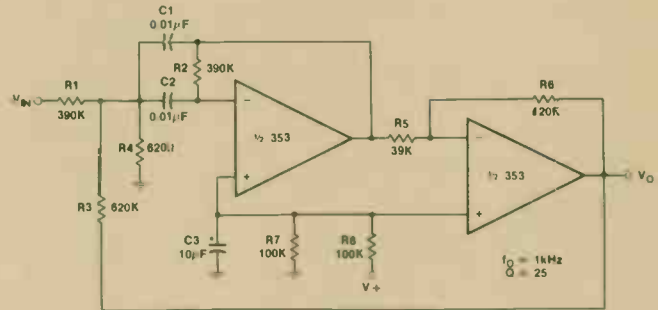


Ground Referencing A Differential Input Signal

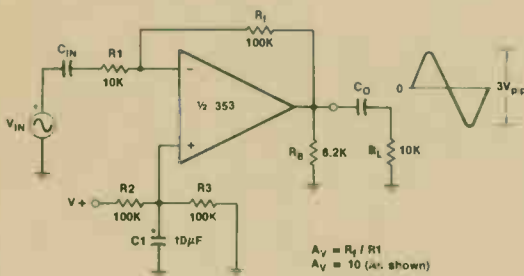
TYPICAL APPLICATIONS (Cont'd)



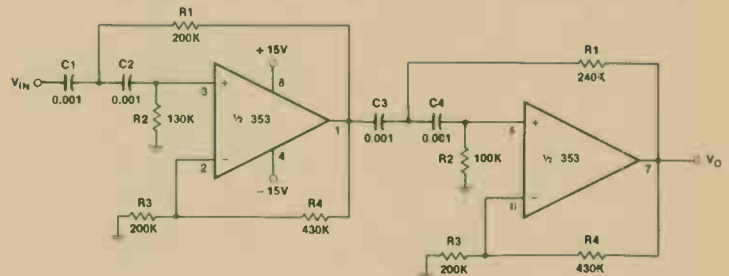
AC Coupled Non-Inverting Amplifier



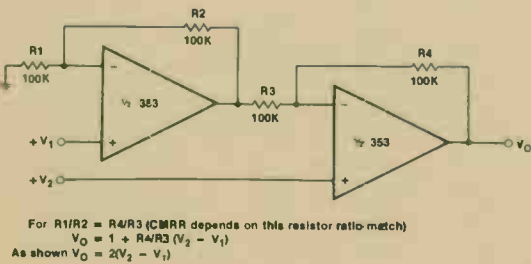
Bandpass Active Filter



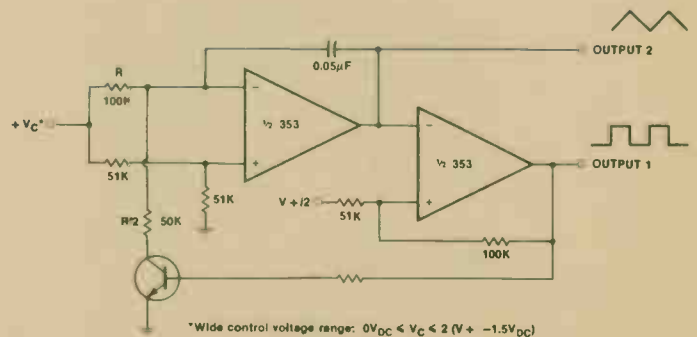
AC Coupled Inverting Amplifier



Fourth Order High Pass Butterworth Filter



High Input Z, DC Differential Amplifier

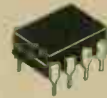


Voltage Controlled Oscillator (VCO)

LINEAR (OP AMP)

741
276-007

OPERATIONAL AMPLIFIER



GENERAL DESCRIPTION

The 741 series are general purpose operational amplifiers which feature improved performance over industry standards.

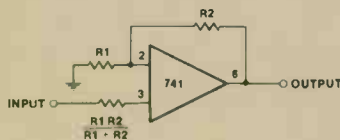
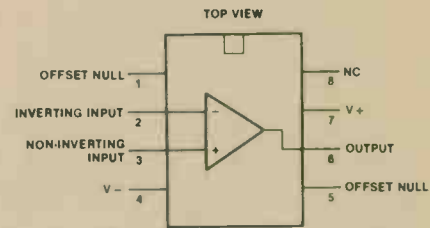
The amplifiers offer many features which make their application nearly foolproof: overload protection on the input and output, no latch-up when the common mode range is exceeded, as well as freedom from oscillations.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage	±16V
Power Dissipation	500 mW
Differential Input Voltage	±30V
Input Voltage	±15V
Output Short Circuit Duration	Indefinite
Operating Temperature Range	0 to +70°C
Storage Temperature Range	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

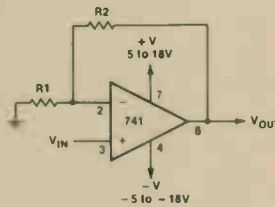
TYPICAL APPLICATIONS

PIN CONNECTION



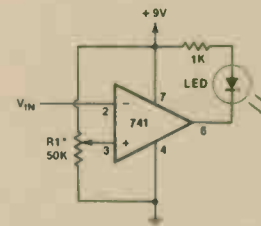
GAIN	R1	R2	BW	R _{IN}
10	1K	9K	100kHz	400MΩ
100	100Ω	9.9K	10kHz	280MΩ
1000	100Ω	99.9K	1kHz	80MΩ

Non-Inverting Amplifier



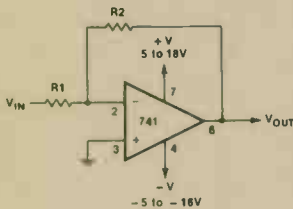
$$V_{OUT} = V_{IN} (1 + R2/R1)$$

Non-Inverting Amplifier



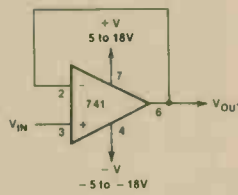
* R1 sets the voltage detection threshold (up to +9V).
When V_{IN} exceeds the threshold (reference), the LED glows.

Level Detector



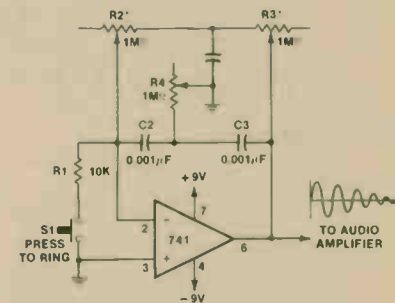
$$V_{OUT} = -V_{IN} (R2/R1)$$

Inverting Amplifier



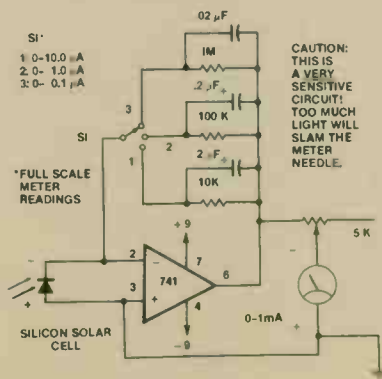
$$V_{OUT} = V_{IN}$$

Unity Gain Follower



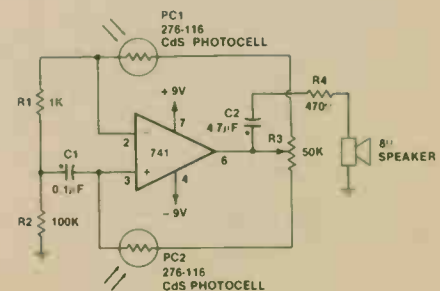
* Adjust R3 to just below oscillation point.
Adjust R2 and R3 for sounds such as bell, drum tinkling, etc.

Electronic Bell



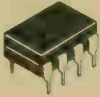
CAUTION:
THIS IS
A VERY
SENSITIVE
CIRCUIT:
TOO MUCH
LIGHT WILL
SLAM THE
METER
NEEDLE.

Optical Power Meter



Light on PC1 decreases tone frequency
Light on PC2 increases tone frequency

Audible Light Sensor



DUAL OPERATIONAL AMPLIFIER

1458
276-038

GENERAL DESCRIPTION

The 1458 is a general purpose dual operational amplifier. The two amplifiers share a common bias network and power supply leads. Otherwise, their operation is completely independent.

FEATURES

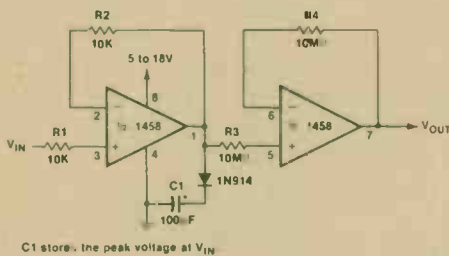
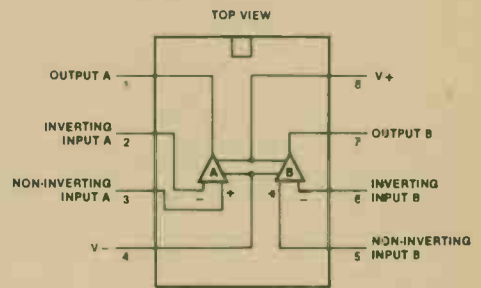
- No frequency compensation required.
- Short-circuit protection
- Wide common-mode and differential voltage ranges
- Low-power consumption
- No latch up when input common mode range is exceeded

ABSOLUTE MAXIMUM RATINGS

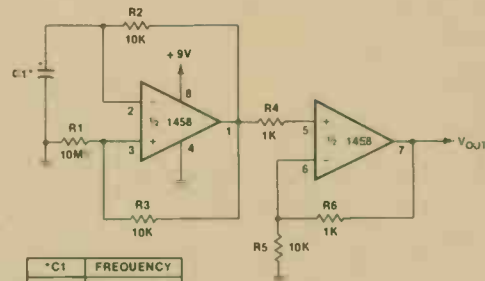
Supply Voltage	±16V
Power Dissipation	400 mW
Differential Input Voltage	±30V
Input Voltage	±15V
Output Short-Circuit Duration	Indefinite
Operating Temperature Range	0 to +70°C
Storage Temperature Range	-65 to +150°C
Lead Temperature (Soldering, 10 sec.)	300°C

TYPICAL APPLICATIONS

PIN CONNECTION



C1 stores the peak voltage at V_{IN}

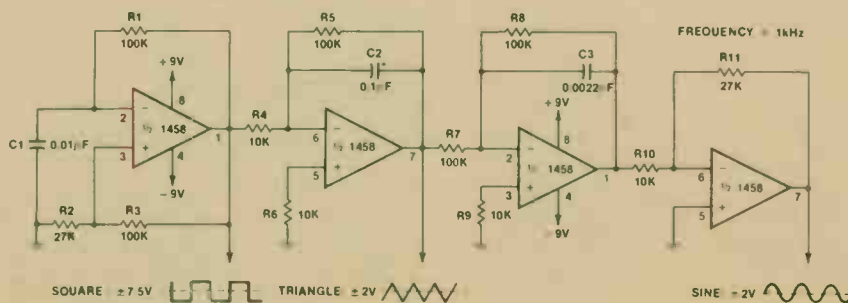


*C1	FREQUENCY
0.001µF	5872Hz
0.010µF	660Hz
0.100µF	51Hz
1.000µF	8Hz

Pulses are DC when $C1 = 0.1µF$
Amplitude is 5 volts.

Peak Detector

Pulse Generator



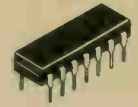
SQUARE ±7.5V, TRIANGLE ±2V

SINE ±2V

Function Generator

324
276-1711

QUAD OP AMP



GENERAL DESCRIPTION

The 324 series consists of four independent, high gain, internally frequency compensated operational amplifiers which were designed specifically to operate from a single power supply over a wide range of voltages. Operation from split power supplies is also possible and the low power supply current drain is independent of the magnitude of the power supply voltage.

Application areas include transducer amplifiers, dc gain blocks and all the conventional op amp circuits which now can be more easily implemented in single power supply systems. For example, the 324 series can be directly operated off of the standard +5 V_{DC} power supply voltage which is used in digital systems and will easily provide the required interface electronics without requiring the additional +15 V_{DC} power supplies.

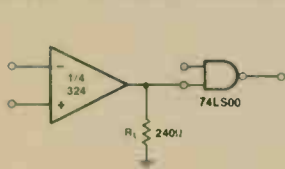
FEATURES

- Internally frequency compensated for unity gain
- Large dc voltage gain 100 dB
- Wide bandwidth (unity gain) 1 MHz (temperature compensated)
- Wide power supply range:
Single supply 3 V_{DC} to 30 V_{DC}
or dual supplies ±1.5 V_{DC} to ±15 V_{DC}
- Very low supply current drain (800 μA)—essentially independent of supply voltage (1 mW/op amp at +5 V_{DC})
- Low input biasing current 45 nA_{DC} (temperature compensated)
- Low input offset voltage 2 mV_{DC} and offset current 5 nA_{DC}
- Input common-mode voltage range includes ground
- Differential input voltage range equal to the power supply voltage
- Large output voltage swing 0 V_{DC} to V⁺ - 1.5 V_{DC}

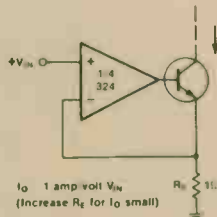
ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V ⁺	32 V _{DC} or ±16 V _{DC}
Differential Input Voltage	32 V _{DC}
Input Voltage	-0.3 V _{DC} to +32 V _{DC}
Power Dissipation	
Molded DIP	570 mW
Cavity DIP	900 nW
Output Short-Circuit to GND (One Amplifier)	Continuous
V ⁺ ≤ 15 V _{DC} and T _A = 25°C	
Input Current (V _{IN} = -0.3 V _{OL})	50 mA
Operating Temperature Range	0 to +70°C
Storage Temperature Range	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

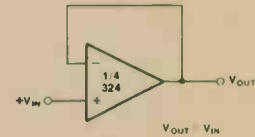
TYPICAL APPLICATIONS



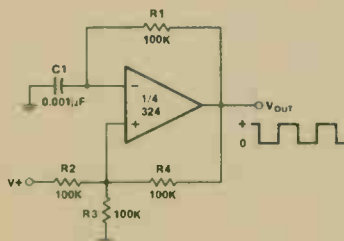
Driving TTL



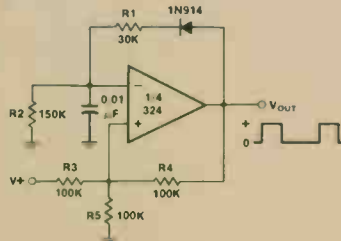
High Compliance Current Sink



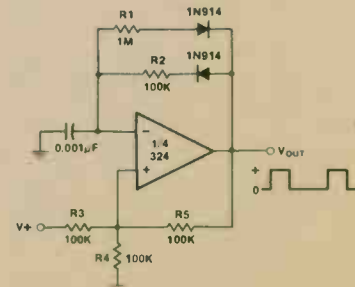
Voltage Follower



Squarewave Oscillator

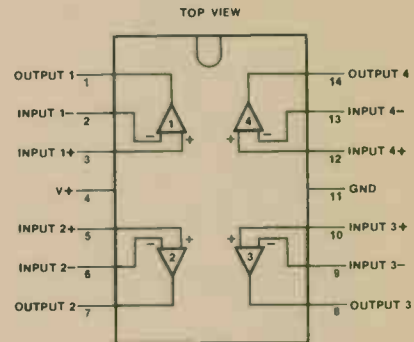


Pulse Generator

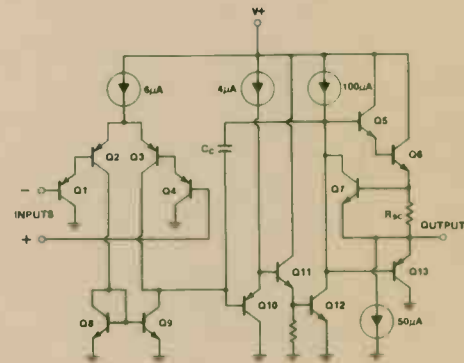


Pulse Generator

PIN CONNECTION



INTERNAL CIRCUIT (Each Amplifier)





TIMER **555**
276-1723

GENERAL DESCRIPTION

The 555 is a highly stable device for generating accurate time delays or oscillation. Additional terminals are provided for triggering or resetting if desired. In the time delay mode of operation, the time is precisely controlled by one external resistor and capacitor. For astable operation as an oscillator, the free running frequency and duty cycle are accurately controlled with two external resistors and one capacitor. The circuit may be triggered and reset on falling waveforms, and the output circuit can source or sink up to 200 mA or drive TTL circuits.

FEATURES

- Timing from microseconds through hours
- Operates in both astable and monostable modes
- Adjustable duty cycle
- Output can source or sink 200 mA
- Output and supply TTL compatible
- Temperature stability better than 0.005% per °C
- Normally on and normally off output

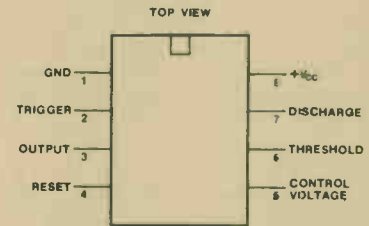
APPLICATIONS

- Precision timing
- Pulse generation
- Sequential timing
- Time delay generation
- Pulse width modulation
- Linear ramp generator
- Pulse position modulation
- Linear ramp generator

ABSOLUTE MAXIMUM RATINGS

Supply Voltage +16V
 Power Dissipation 600 mW
 Operating Temperature Range 0 to +70°C
 Storage Temperature Range -65 to +150°C
 Lead Temperature (Soldering, 10 seconds) 300°C

PIN CONNECTION

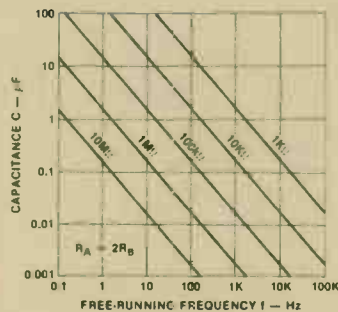


TRUTH TABLE

PIN 2 TRIGGER	PIN 6 THRESHOLD	PIN 4 RESET	PIN 3 OUTPUT
H	X	H	L
L	X	H	H
H	L	H	L
X	X	L	L

X = Don't Care L = Low Level H = High Level

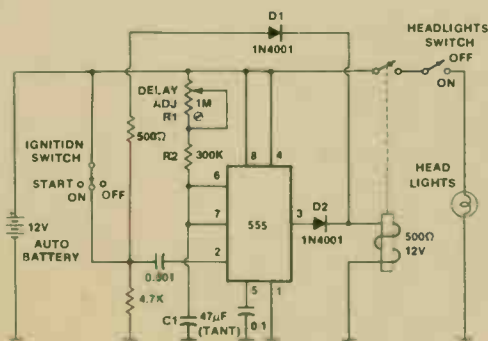
TYPICAL CHARACTERISTICS



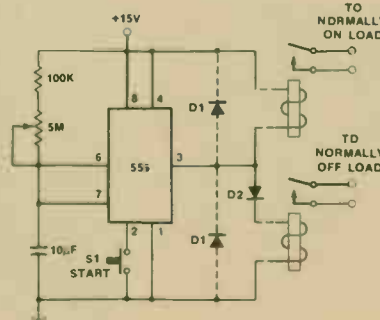
The charge time (output high) is given by: $t_1 = 0.693 (R_A + R_B) C$
 The discharge time (output low) is given by: $t_2 = 0.693 R_B C$
 Thus the total period is: $T = t_1 + t_2 = 0.693 (R_A + 2R_B) C$
 The frequency of oscillation is: $f = 1/T = 1.44 / (R_A + 2R_B) C$

Capacitance vs Free-Running Frequency

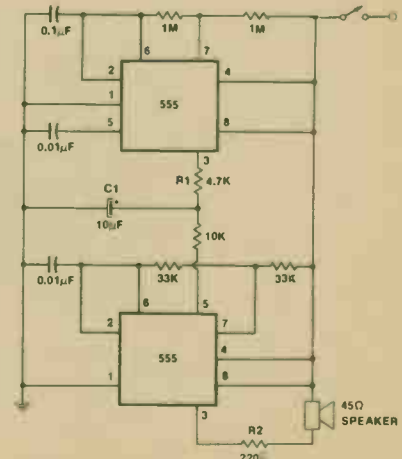
TYPICAL APPLICATIONS



Automatic Headlight Turn-Off Circuit



Relay Timer



Warble Alarm Circuit

LINEAR (TIMER)

556
276-1728

DUAL TIMER



GENERAL DESCRIPTION

The 556 dual timing circuit is a highly stable controller capable of producing accurate time delays or oscillation. The 556 is a dual 555. Timing is provided by an external resistor and capacitor for each timing function. The two timers operate independently of each other sharing only V_{CC} and ground. The circuits may be triggered and reset on falling waveforms. The output structures may sink or source 200 mA.

FEATURES

- Timing from microseconds through hours
- Operates in both astable and monostable modes
- Replaces two 555 timers
- Adjustable duty cycle
- Output can source or sink 200 mA
- Output and supply TTL compatible
- Temperature stability better than 0.005% per °C
- Normally on and normally off output

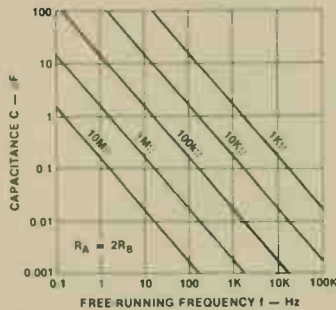
APPLICATIONS

- Precision timing
- Pulse generation
- Sequential timing
- Time delay generation
- Pulse width modulation
- Pulse position modulation
- Linear ramp generator

ABSOLUTE MAXIMUM RATINGS

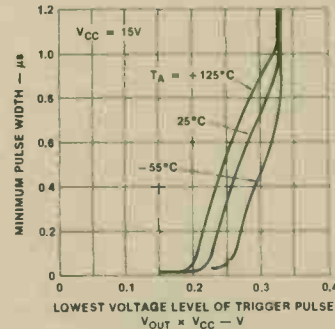
Supply Voltage	+16V
Power Dissipation	600 mW
Operating Temperature Range	0 to +70°C
Storage Temperature Range.....	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

TYPICAL CHARACTERISTICS

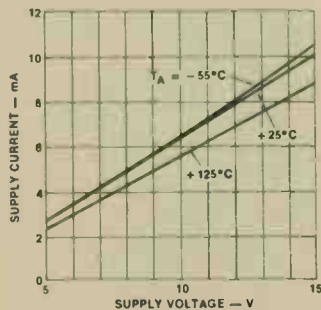


Capacitance vs Free-Running Frequency

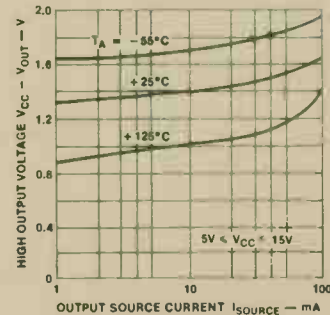
The charge time (output high) is given by:
 $t_1 = 0.693 (R_A + R_B) C$
 The discharge time (output low) is given by:
 $t_2 = 0.693 (R_B) C$
 Thus the total period is:
 $T = t_1 + t_2 = 0.693 (R_A + 2R_B) C$
 The frequency of oscillation is:
 $f = 1/T = 1.44 / (R_A + 2R_B) C$



Minimum Pulse Width vs Lowest Voltage Level of Trigger Pulse



Supply Current vs Supply Voltage



High Output Voltage vs Output Source Current

3-TERMINAL ADJUSTABLE POSITIVE REGULATOR

317T
276-1778

GENERAL DESCRIPTION

The 317T is an adjustable 3-terminal positive voltage regulator capable of supplying in excess of 1.5 A over a 1.2 V to 37 V output range. This device is exceptionally easy to use and requires only two external resistors to set the output voltage.

In addition to higher performance than fixed regulators, the 317T offers full overload protection available only in IC's. Included on the chip are current limit, thermal overload protection and safe area protection. All overload protection circuitry remains fully functional even if the adjustment terminal is disconnected.

Normally, no capacitors are needed unless the device is situated far from the input filter capacitors in which case an input bypass is needed. An optional output capacitor can be added to improve transient response. The adjustment terminal can be bypassed to achieve very high ripple rejection ratios which are difficult to achieve with standard 3-terminal regulators.

Besides replacing fixed regulators, the 317T is useful in a wide variety of other applications. Since the regulator is "floating" and sees only the input-to-output differential voltage, supplies of several hundred volts can be regulated as long as the maximum input to output differential is not exceeded.

It will also serve as a simple adjustable switching regulator, programmable output regulator, or by connecting a fixed resistor between the adjustment and output, the 317T can be used as a precision current regulator. Supplies with electronic shutdown can be achieved by clamping the adjustment terminal to ground which programs the output to 1.2 V where most loads draw little current.

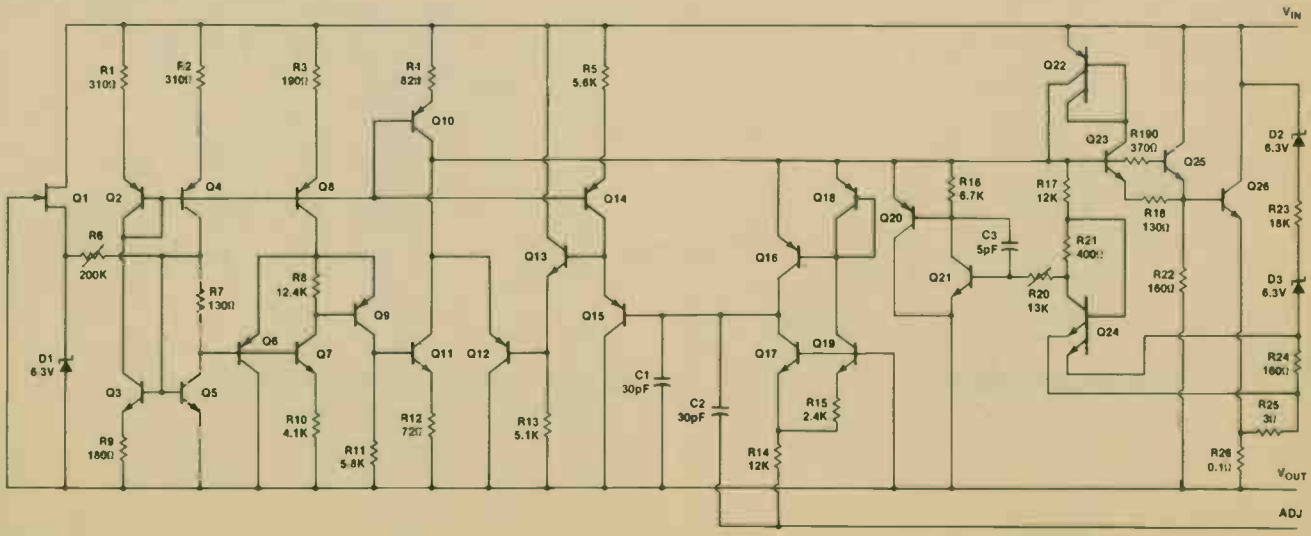
FEATURES

- Adjustable output down to 1.2V
- Guaranteed 1.5A output current
- Line regulation typically 0.01%/V
- Load regulation typically 0.1%
- Current limit constant with temperature
- 100% electrical burn-in
- Eliminates the need to stock many voltages
- Standard 3-lead transistor package
- 80 dB ripple rejection

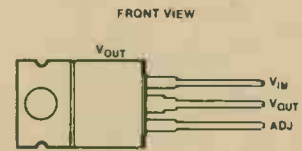
ABSOLUTE MAXIMUM RATINGS

Power Dissipation	Internally limited
Input-Output Voltage Differential	40V
Operating Junction Temperature Range	0 to +125°C
Storage Temperature	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

INTERNAL CIRCUIT

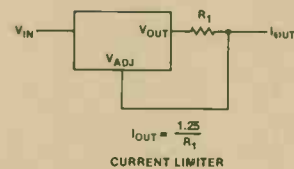
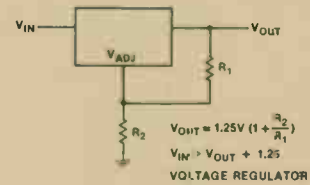


PIN CONNECTIONS



317T

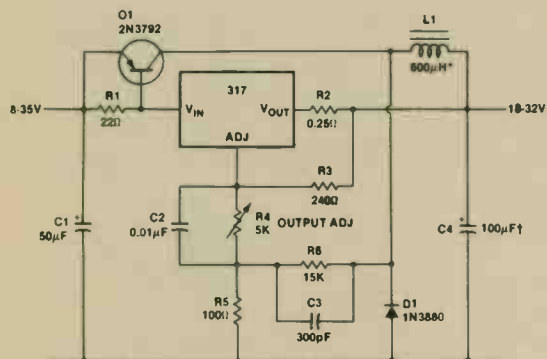
TYPICAL APPLICATIONS



LINEAR (VOLT REG)

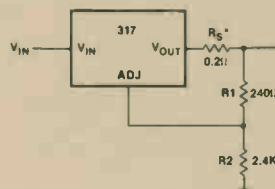
317T 276-1778

TYPICAL APPLICATIONS

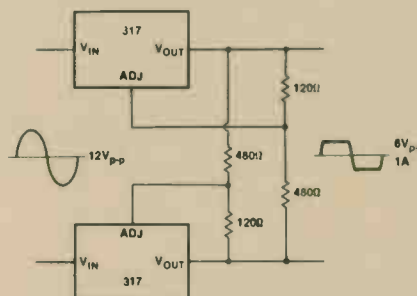


†Solid Tantalum
*Core—Arnold A-254168-2 60 turns

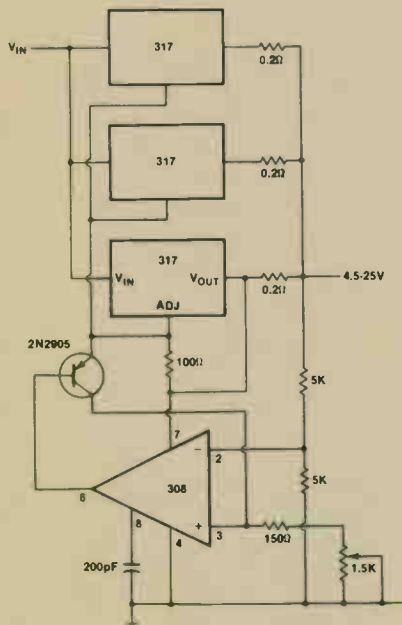
Low Cost 3A Switching Regulator



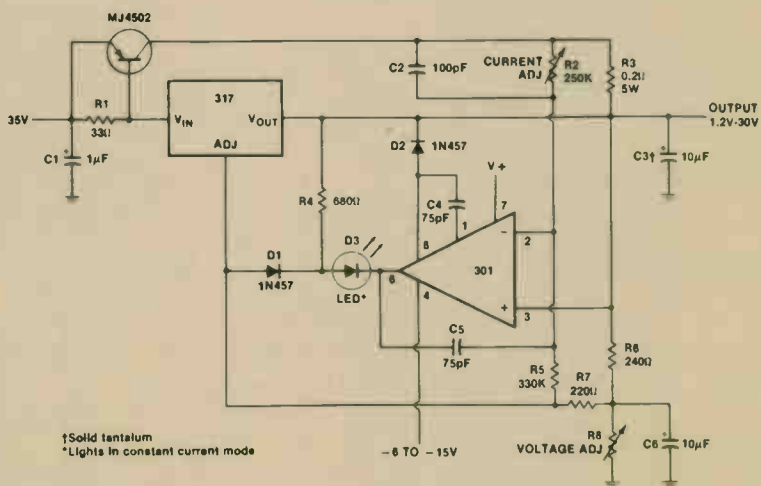
12V Battery Charger



AC Voltage Regulator

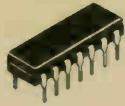


Adjustable 4A Regulator



†Solid tantalum
*Lights in constant current mode

5A Constant Voltage/Constant Current Regulator



ADJUSTABLE VOLTAGE REGULATOR

723
276-1740

GENERAL DESCRIPTION

The 723 is a voltage regulator designed primarily for series regulator applications. By itself, it will supply output currents up to 150 mA; but external transistors can be added to provide any desired load current. The circuit features extremely low standby current drain, and provision is made for either linear or foldback current limiting.

FEATURES

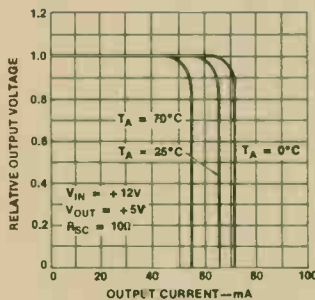
- 150 mA output current without external pass transistor
- Output currents in excess of 10A possible by adding external transistors
- Input voltage 40V max
- Output voltage adjustable from 2V to 37V
- Can be used as either a linear or a switching regulator

The 723 is also useful in a wide range of other applications such as a shunt regulator, a current regulator or a temperature controller.

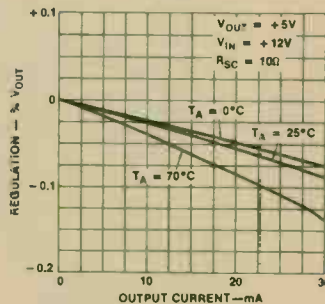
ABSOLUTE MAXIMUM RATINGS

Pulse Voltage from V+ to V- (50 ms)	50V
Continuous Voltage from V+ to V-	40V
Input-Output Voltage Differential	40V
Maximum Amplifier Input Voltage (Either Input)	7.5V
Maximum Amplifier Input Voltage (Differential)	5V
Current from V _Z	25 mA
Current from V _{REF}	15 mA
Internal Power Dissipation Metal Can	800 mW
Cavity DIP	900 mW
Molded DIP	660 mW
Operating Temperature Range	0 to +70°C
Storage Temperature Range Metal Can	-65 to +150°C
DIP	-55 to +125°C
Lead Temperature (Soldering, 10 sec)	300°C

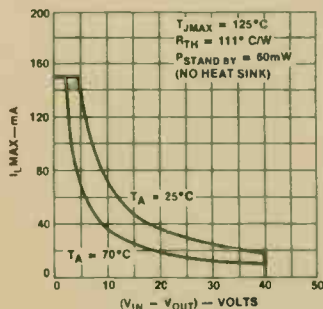
TYPICAL CHARACTERISTICS



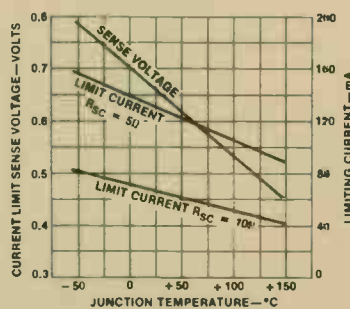
Relative Output Voltage vs Output Current



Load Regulation vs Output Current

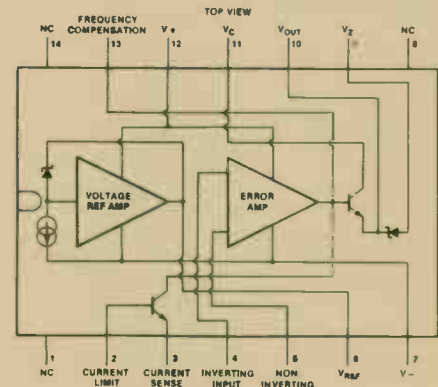


Maximum Load Current vs Input-Output Voltage Differential

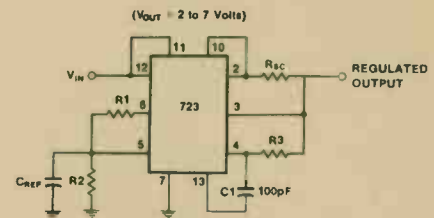


Current Limit Sense Voltage vs Junction Temperature

PIN CONNECTION

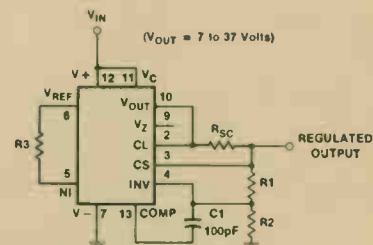


TYPICAL APPLICATIONS



TYPICAL PERFORMANCE
 Regulated Output Voltage 5V
 Line Regulation ($\Delta V_{IN} = 3V$) 0.5mV
 Load Regulation ($\Delta I_L = 50mA$) 1.5mV
 Note: $R_3 = \frac{R_1 R_2}{R_1 + R_2}$ for minimum temperature drift.

Basic Low Voltage Regulator



TYPICAL PERFORMANCE
 Regulated Output Voltage 15V
 Line Regulation ($\Delta V_{IN} = 3V$) 1.5mV
 Load Regulation ($\Delta I_L = 50mA$) 4.5mV
 Note: $R_3 = \frac{R_1 R_2}{R_1 + R_2}$ for minimum temperature drift.

Basic High Voltage Regulator

LINEAR (VOLT REG)

7805
276-1770

7812
276-1771

7815
276-1772

5V VOLTAGE REGULATOR

12V VOLTAGE REGULATOR

15V VOLTAGE REGULATOR

GENERAL DESCRIPTION

This series of three terminal regulators is available with several fixed output voltages making them useful in a wide range of applications. One of these is local on card regulation, eliminating the distribution problems associated with single point regulation. The voltages available allow these regulators to be used in logic systems, instrumentation, HiFi, and other solid state electronic equipment. Although designed primarily as fixed voltage regulators these devices can be used with external components to obtain adjustable voltages and currents.

This series will allow over 1.5A load current if adequate heat sinking is provided. Current limiting is included to limit the peak output current to a safe value. Safe area protection for the output transistor is provided to limit internal power dissipation. If internal power dissipation becomes too high for the heat sinking provided, the thermal shutdown circuit takes over preventing the IC from overheating.

FEATURES

- Internal thermal overload protection
- No external components required
- Output transistor safe area protection
- Internal short circuit current limit

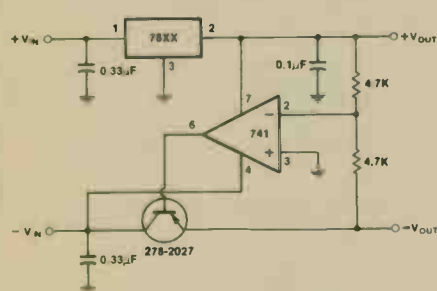
VOLTAGE RANGE

7805	.....	5V
7812	.....	12V
7815	.....	15V

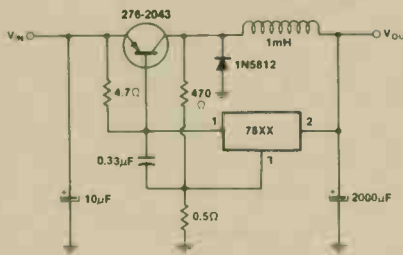
ABSOLUTE MAXIMUM RATINGS

Input Voltage	
(Output Voltage Options 5V through 18V)	..... 35V
(Output Voltage Option 24V)	..... 40V
Internal Power Dissipation	..... Internally Limited
Maximum Junction Temperature	..... 150°C
Operating Temperature Range	..... 0 to +70°C
Storage Temperature Range	..... -65 to +150°C
Lead Temperature (Soldering, 10 seconds)	..... 300°C

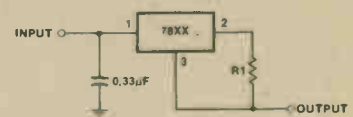
TYPICAL APPLICATIONS



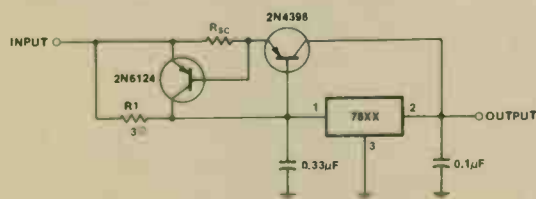
±Tracking Voltage Regulator



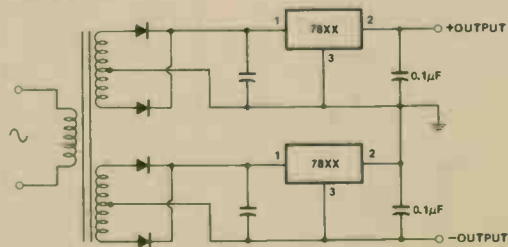
Switching Regulator



Current Regulator

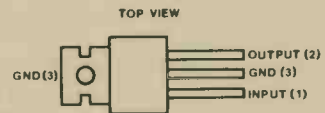


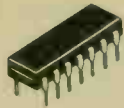
High Output Current, Short Circuit Protected



Positive and Negative Regulator

PIN CONNECTION





QUAD COMPARATOR

339
276-1712

GENERAL DESCRIPTION

The 339 series consists of four independent voltage comparators which were designed specifically to operate from a single power supply over a wide range of voltages. Operation from split power supplies is also possible and the low power supply current drain is independent of the magnitude of the power supply voltage. These comparators also have a unique characteristic in that the input common-mode voltage range includes ground, even though operated from a single power supply voltage.

FEATURES

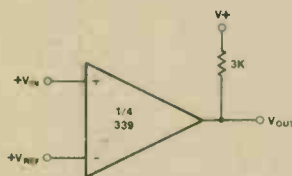
- Wide single supply: Voltage range $2 V_{DC}$ to $32 V_{DC}$ or dual supplies $\pm 1 V_{DC}$ to $\pm 16 V_{DC}$
- Very low supply current drain (0.8 mA)—independent of supply voltage (1 mW/comparator at $+5 V_{DC}$)
- Input common-mode voltage range includes ground
- Differential input voltage range equal to the power supply voltage
- Low output 1 mV at $5 \mu A$; saturation voltage 70 mV at 1 mA
- Output voltage compatible with TTL (fanout of 2), DTL, ECL, MOS and CMOS logic systems

ABSOLUTE MAXIMUM RATINGS

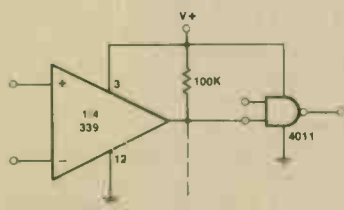
Supply Voltage, V^+	$32 V_{DC}$ or $\pm 16 V_{DC}$
Differential Input Voltage	$36 V_{DC}$
Input Voltage	$-0.3 V_{DC}$ to $+36 V_{DC}$
Power Dissipation	
Molded DIP	570 mW
Cavity DIP	900 mW
Output Short-Circuit to GND	Continuous
Input Current ($V_{IN} = -0.3 V_{DC}$)	50 mA
Operating Temperature Range	0 to $+70^\circ C$
Storage Temperature Range	-65 to $+150^\circ C$
Lead Temperature (Soldering, 10 seconds)	$300^\circ C$

TYPICAL APPLICATIONS

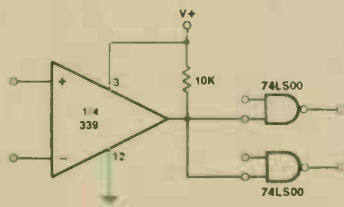
5 VOLT GROUP



Basic Comparator

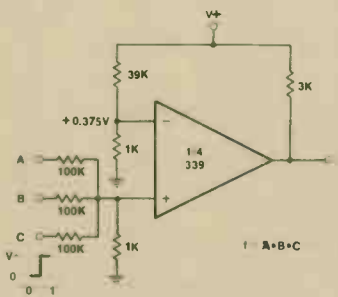


Driving CMOS

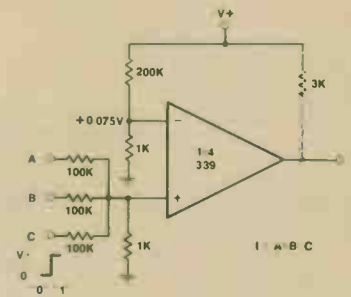


Driving TTL

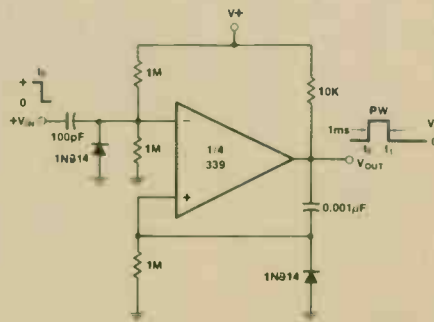
15V GROUP



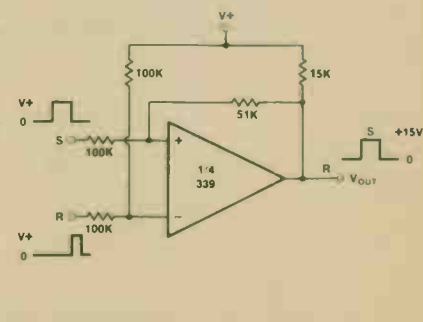
AND Gate



OR Gate

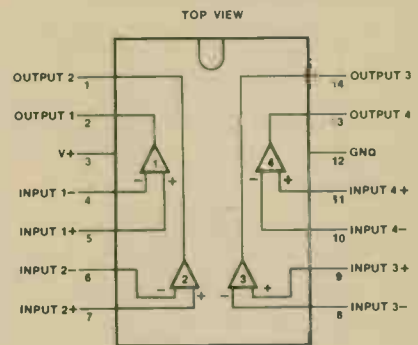


One-Shot Multivibrator

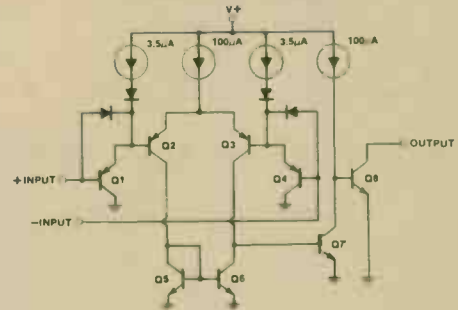


Bi-Stable Multivibrator

PIN CONNECTION

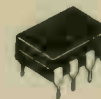


INTERNAL CIRCUIT



567
276-1721

567 TONE DECODER



GENERAL DESCRIPTION

The 567 is a general purpose tone decoder designed to provide a saturated transistor switch to ground when an input signal is present within the passband. The circuit consists of an I and Q detector driven by a voltage controlled oscillator which determines the center frequency of the decoder. External components are used to independently set center frequency, bandwidth and output delay.

FEATURES

- 20 to 1 frequency range with an external resistor
- Logic compatible output with 100 mA current sinking capability
- Bandwidth adjustable from 0 to 14%
- High rejection of out of band signals and noise
- Immunity to false signals
- Highly stable center frequency
- Center frequency adjustable from 0.01 Hz to 500 kHz

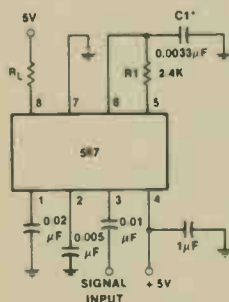
APPLICATIONS

- Touch tone decoding
- Precision oscillator
- Frequency monitoring and control
- Wide band FSK demodulation
- Ultrasonic controls
- Carrier current remote controls
- Communications paging decoders

ABSOLUTE MAXIMUM RATINGS

Supply Voltage	9V
Power Dissipation	300 mW
V _B (Output Voltage)	15V
V ₃ (-Voltage at Input)	-10V
V ₃ (+Voltage at Input)	V _B +0.5V
Operating Temperature	0 to +70°C
Storage Temperature Range	-65 to +150°C

TYPICAL APPLICATIONS



The center frequency of the tone decoder is equal to the free-running frequency of the VCO. This is given by $f_0 = 1/R_1C_1$. The band width of the filter may be found from the approximation

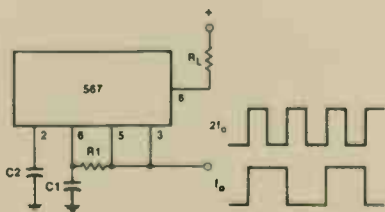
$$BW = 1070 \sqrt{\frac{V_{IN}}{f_0 C_2}} \text{ in } \% \text{ of } f_0$$

Where: V_{IN} = Input voltage (volts rms), V_{IN} ≤ 200mV.

C₂ = Capacitance at pin 2 in μF.

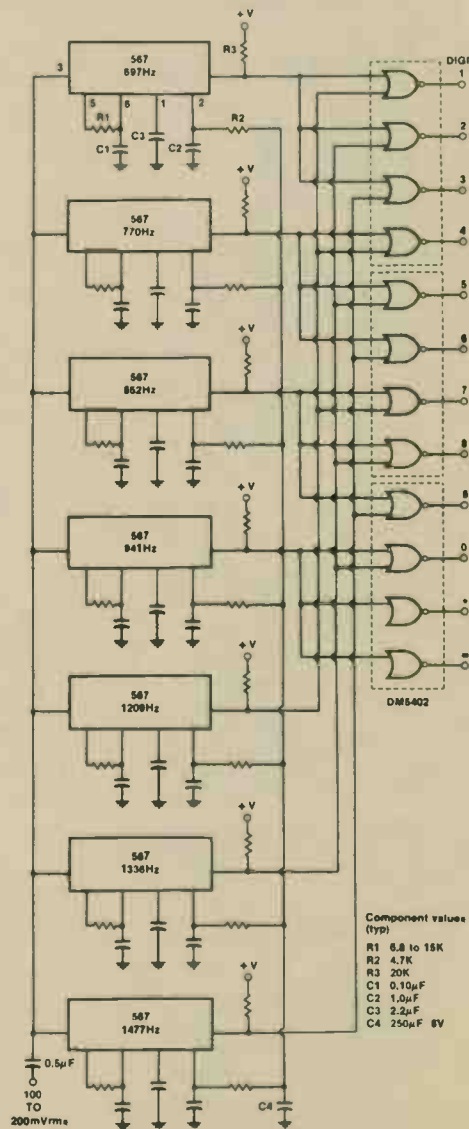
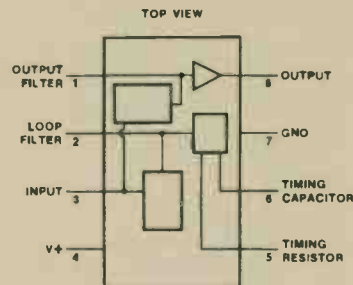
*Note: Adjust for f₀ = 100kHz.
f₀ = 100kHz + 5V

AC Test Circuit



Oscillator with Double Frequency Output

PIN CONNECTION



Touch-Tone Decoder



LED FLASHER/OSCILLATOR

3909
276-1705

GENERAL DESCRIPTION

The 3909 is a monolithic oscillator specifically designed to flash light emitting diodes. By using the timing capacitor for voltage boost, it delivers pulses of 2 or more volts to the LED while operating on a supply of 1.5V or less. The circuit is inherently self-starting, and requires addition of only a battery and capacitor to function as a LED flasher.

It has been optimized for low power drain and operation from weak batteries so that continuous operation life exceeds that expected from battery rating.

Application is made simple by inclusion of internal timing resistors and an internal LED current limit resistor.

Timing capacitors will generally be of the electrolytic type, and a small 3V rated part will be suitable for any LED flasher using a supply up to 6V. However, when picking flash rates, it should be remembered that some electrolytics have very broad capacitance tolerances, for example -20% to +100%.

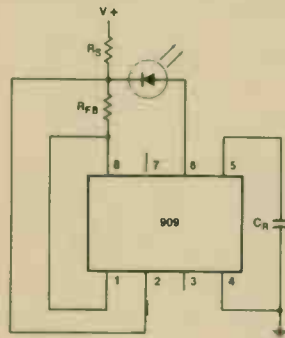
FEATURES

- Operation over one year from one C size flashlight cell
- Bright, high current LED pulse
- Minimum external parts
- Low voltage operation, from just over 1V to 5V
- Low current drain, averages under 0.5 mA during battery life
- Powerful: as an oscillator directly drives an 8Ω speaker

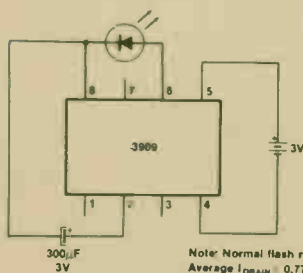
ABSOLUTE MAXIMUM RATINGS

Power Dissipation	500 mW
V+ Voltage	6.4V
Pulse Width	6 ms
Peak LED Current	45 mA
Operating Current	75 mA
Flash Frequency	1.3 Hz
High Flash Frequency	1.1 kHz
Operating Temperature Range	-25 to +70°C

TYPICAL APPLICATIONS

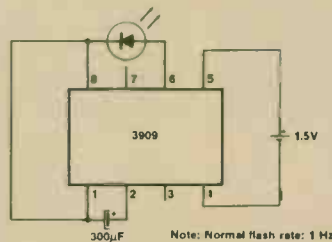


Warning Flasher High Voltage Powered



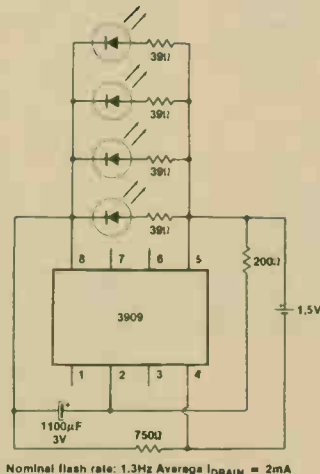
3V Flasher

Note: Normal flash rate: 1Hz
Average I_{DRAIN} = 0.77mA



1.5V Flasher

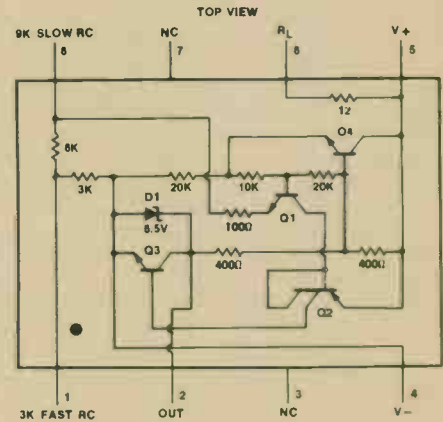
Note: Normal flash rate: 1 Hz



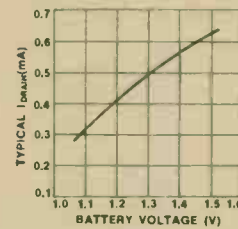
Parallel LED's

Nominal flash rate: 1.3Hz Average I_{DRAIN} = 2mA

PIN CONNECTION



TYPICAL CHARACTERISTICS



Drain Current vs Battery Voltage

ESTIMATED BATTERY LIFE (CONTINUOUS 1.5V FLASHER OPERATION)

SIZE CELL	TYPE	
	STANDARD	ALKALINE
AA	3 MONTHS	6 MONTHS
C	7 MONTHS	15 MONTHS
D	1.3 YEARS	2.6 YEARS

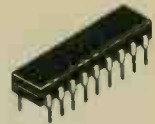
Note: Estimates are made from our tests and manufacturers data. Conditions are fresh batteries and room temperature. Clad or "leak-proof" batteries are recommended for any application of five months or more, Nickel Cadmium cells are not recommended.

TYPICAL OPERATING CONDITIONS

V+	NORMAL FLASH Hz	C _T	R _S 1W	R _{FB}	V+ RANGE
6V	2	400μF	1K	1.5K	5-25V
15V	2	180μF	3.9K	1K	13-50V
100V	1.7	180μF	43K	1K	85-200V

SSI202
276-1303

5V LOW-POWER DTMF RECEIVER



GENERAL DESCRIPTION

The SSI 202 is a complete Dual Tone Multiple Frequency (DTMF) receiver detecting a selectable group of 12 or 16 standard digits. No front-end pre-filtering is needed. The only externally required components are an inexpensive 3.58-MHz television "colorburst" crystal (for frequency reference) and a bias resistor. Extremely high system density is made possible by using the clock output of a crystal connected SSI 202 receiver to drive the time bases of additional receivers. The SSI 202 uses a monolithic integrated circuit fabricated with low-power, complementary symmetry MOS (CMOS) processing. It requires only a single low tolerance voltage supply.

The SSI 202 employs state-of-the-art circuit technology to combine digital and analog functions on the same CMOS chip using a standard digital semiconductor process. The analog input is pre-processed by 60-Hz reject and band splitting filters and then hard-limited to provide AGC. Eight bandpass filters detect the individual tones. The digital post-processor times the tone durations and provides the correctly coded digital outputs. Outputs interface directly to standard CMOS circuitry, and are three-state enabled to facilitate bus-oriented architectures.

FEATURES

- NO front-end band-splitting filters required
- Single, low-tolerance, 5-volt supply
- Detects either 12 or 16 standard DTMF digits
- Uses inexpensive 3.579545-MHz crystal for reference
- Excellent speech immunity
- Output in either 4-bit hexadecimal code or binary coded 2 of 8
- Synchronous or handshake interface
- Three-state outputs

ABSOLUTE MAXIMUM RATINGS*

Supply Voltage (DC).....	7V
Input Voltage (All Inputs Except Analog In)	-.5V to +.5V
Analog In Voltage	-10V to +.5V
DC Current Into Any Input	± 1.0 MA
Power Dissipation (Note 1).....	.65 MW
Operating Temperature	0°C to 70°C
Storage Temperature.....	-65°C to 150°C

* All unused inputs must be connected to V_p or GND as appropriate.
Note 1: Operate above 25°C @ 6.25 mw/°C

ANALOG IN

This pin accepts the analog input. It is internally biased so that the input signal may be AC coupled. The input may be DC coupled as long as it does not exceed the positive supply. Proper input coupling is illustrated in Fig. 1.

The SSI 202 is designed to accept sinusoidal input wave forms but will operate satisfactorily with any input that has the correct fundamental frequency with harmonics greater than 20 dB below the fundamental.

CRYSTAL OSCILLATOR

The SSI 202 contains an onboard inverter with sufficient gain to provide oscillation when connected to a low-cost television "color-burst" crystal. The crystal oscillator is enabled by tying XEN high. The crystal is connected between XIN and XOUT. A 1 MΩ 10% resistor is also connected between these pins. In this mode, ATB is a clock frequency output. Other SSI 202's may use the same frequency reference by tying their ATB pins to the ATB of a crystal-connected device. XIN and XEN of the auxiliary devices must then be tied high and low respectively. Ten devices may run off a single crystal-connected SSI 202.

PIN CONNECTION

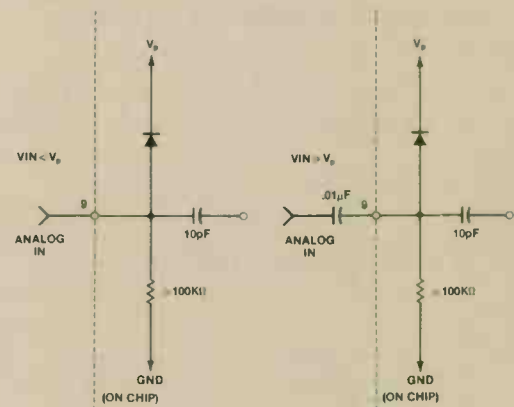
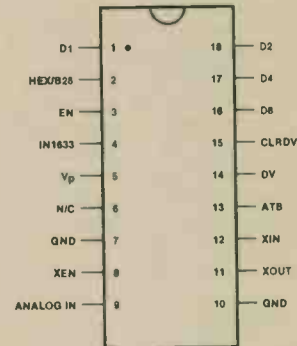
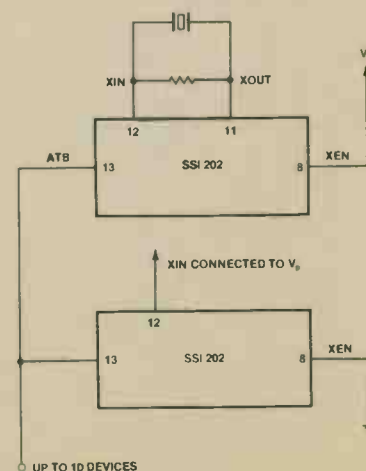
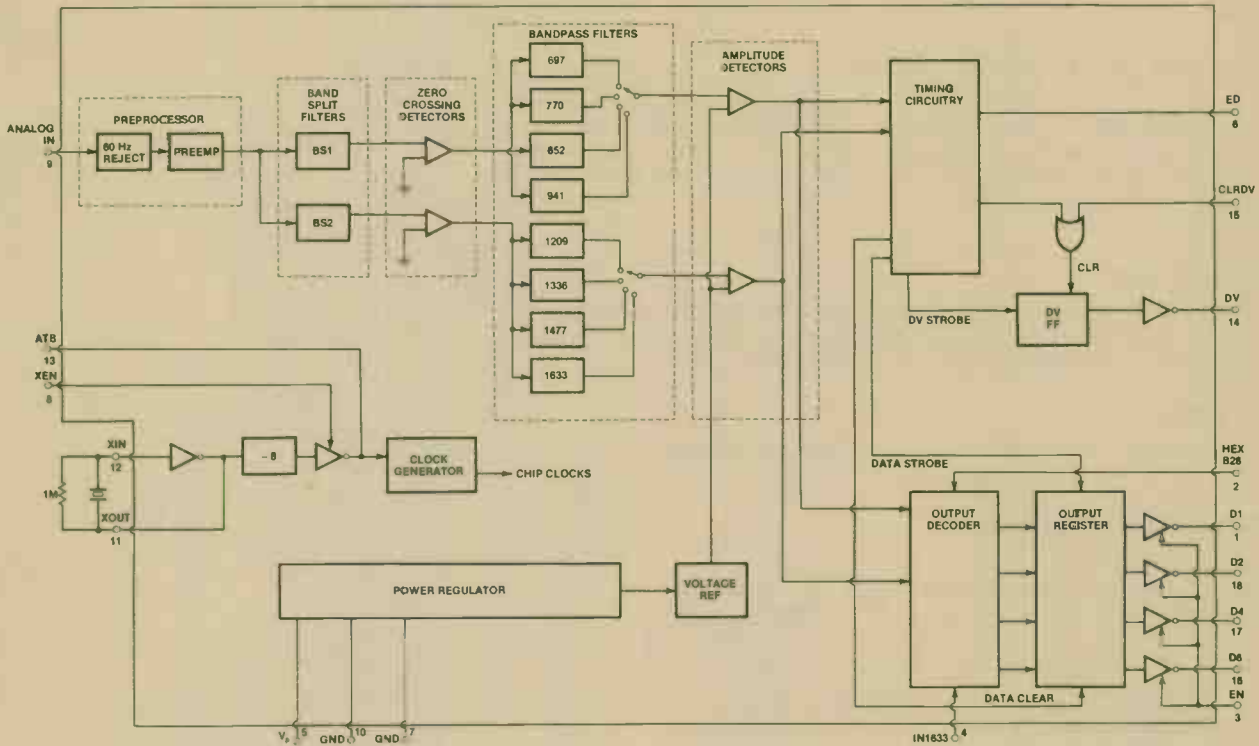


Fig. 1



Block Diagram



HEX/B28

This pin selects the format of the digital output code. When HEX/B28 is tied high, the output is hexadecimal. When tied low, the output is binary coded 2 of 8. The table below describes the two output codes.

Digit	Hexadecimal				Binary Coded 2 of 8			
	D8	D4	D2	D1	D8	D4	D2	D1
1	0	0	0	1	0	0	0	0
2	0	0	1	0	0	0	0	1
3	0	0	1	1	0	0	1	0
4	0	1	0	0	0	1	0	0
5	0	1	0	1	0	1	0	1
6	0	1	1	0	0	1	1	0
7	0	1	1	1	1	0	0	0
8	1	0	0	0	1	0	0	1
9	1	0	0	1	1	0	1	0
0	1	0	1	0	1	1	0	1
*	1	0	1	1	1	1	0	0
#	1	1	0	0	1	1	1	0
A	1	1	0	1	0	0	1	1
B	1	1	1	0	0	1	1	1
C	1	1	1	1	1	0	1	1
D	0	0	0	0	1	1	1	1

MOS (CMOS)

SSI202 276-1303

IN1633

When tied high, this pin inhibits detection of tone pairs containing the 1633-Hz component. For detection of all 16 standard digits, IN1633 must be tied low.

OUTPUTS D1, D2, D4, D8 and EN

Outputs D1, D2, D4, D8 are CMOS push-pull when enabled (EN high) and open circuited (high impedance) when disabled by pulling EN low. These digital outputs provide the code corresponding to the detected digit in the format programmed by the HEX/B28 pin. The digital outputs become valid after a tone pair has been detected and they are then cleared when a valid pause is timed.

DV and CLRDV

DV signals a detection by going high after a valid tone pair is sensed and decoded at the output pins D1, D2, D4, D8. DV remains high until a valid pause occurs or the CLRDV is raised high, whichever is earlier.

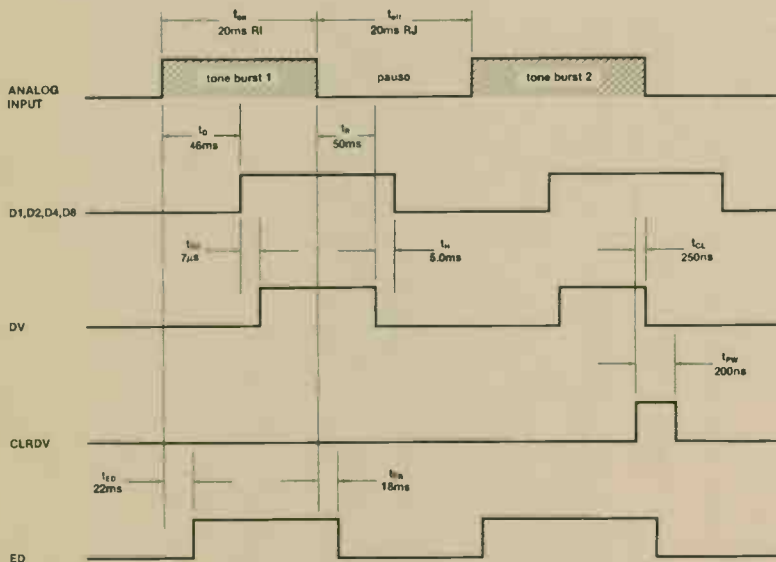
N/C PINS

These pins have no internal connection and may be left floating.

DETECTION FREQUENCY

Low Group f_o	High Group f_o
Row 0 = 697 Hz	Column 0 = 1209 Hz
Row 1 = 770 Hz	Column 1 = 1336 Hz
Row 2 = 852 Hz	Column 2 = 1477 Hz
Row 3 = 941 Hz	Column 3 = 1633 Hz

SSI 202 TIMING



CODE-TO-SPEECH CHIP

CTS256AL2
276-1786

GENERAL DESCRIPTION

The Code-To-Speech chip set consists of two chips: the SPO256A-AL2 (Cat. No. 276-1784), an allophone-base single chip speech synthesizer, and the CTS256A-AL2, an 8-bit microcomputer programmed with a letter-to-sound based algorithm. This chip set translates English characters into LPC synthesized speech sounds.

The SPO256A-AL2 is a standard allophone chip and is based on the SPO256A speech synthesizer. This synthesizer consists of a 10 or 12 pole second-order cascaded LPC filter, a controller, and a 16-Kbit ROM in which 59 allophones (speech sounds) and five pauses are stored.

The CTS256A-AL2 is a device whose on-board ROM is masked with code-to-speech algorithm. This algorithm converts English text (in the form of standard ASCII characters) into SPO256A-AL2 compatible allophone addresses, using letter-to-sound rules.

This chip set delivers highly recognizable speech output from any peripheral device or computer in a flexible and cost effective manner. It can be configured as a dedicated code-to-speech system, as well as add speech output to a user's program running in this CTS256A-AL2 from off-chip Rom. Such user programs are written in PIC7001 assembly language which is 100% compatible with TMS7001 assembly language.

Eproms can be added to improve the pronunciation of certain proper names, acronyms and technical words as well as to store user programs.

FEATURES:

- Unlimited vocabulary
- Utilizes letter-to-sound rules
- Serial or parallel interface
- Microprocessor available for user code

PIN SELECTABLE CODE-TO-SPEECH OPTIONS:

Refer to TABLE 1.

- INPUT INTERFACE —Serial port & baud rate vs. Parallel port
- INPUT BUFFER —Internal RAM vs. External RAM
- DELIMITER —Any-delimiter vs Carriage-return-only
- UART PARAMETERS —Program defaults vs 74LS373 selectable (or eprom definable)

FIRMWARE (EXCEPTION-WORD/USER EPROM)

CONTROLLED CODE-TO-SPEECH OPTIONS: (optional)

Refer to TABLE 2.

- Parallel port decode relocatable
- UART parameters 74LS373 decode relocatable
- UART parameters selectable
- Start & end address of External-Ram relocatable

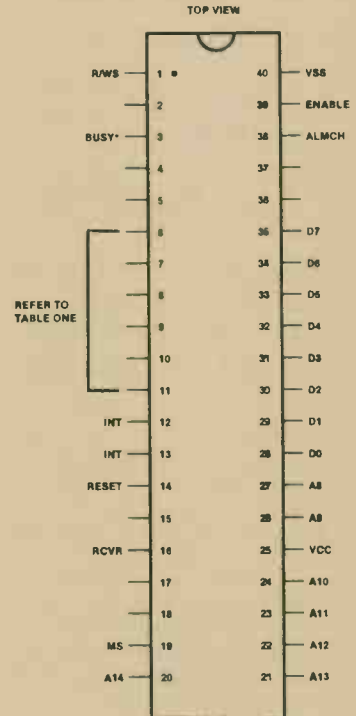
CODE-TO-SPEECH ALGORITHM FEATURES:

- ESCAPE "ESC", (1B Hex) THE ESCAPE-KEY CODE WILL DUMP THE CONTENTS OF THE INPUT AND OUTPUT BUFFERS, AND WILL ALSO SILENCE SPEECH OUTPUT WHICH IS IN PROGRESS.
- BACKSPACE "<", (0B Hex) THE BACKSPACE-KEY CODE ERASES THE INPUT BUFFER ONE CHARACTER AT A TIME, BEGINNING WITH THE LATEST ENTRY.

NOTE: The R/C combination indirectly connected to PIN 14 of the CTS256A-AL2 and to PIN 2, 25 of the SPO256A-AL2 acts as a power-on reset. The requirement to reset the chip-set is a negative-going pulse which remains LO for a minimum of 500 microseconds.

NOTE: A signal (input or output) that is active-LO is designated by its signal name followed by an asterisk (*).

PIN CONNECTION



MICROCOMPUTER (8-BIT)

CTS256AL2 276-1786

CODE-TO-SPEECH ALGORITHM (Cont'd)

NOTE: The program default address decode of the SPO256A-AL2's ALD* input is 2000H. It is re-definable via the EXCEPTION-WORD or USER eprom. Refer to TABLE 2.

NOTE: MSnibble means most significant nibble, where a nibble is half a byte. MSB means most significant byte; LSB means least significant byte. 'X' stands for the MSnibble of the MSB of the two byte address, and can be 1,2,3,4,5,6,7,8,9,A,B,C,D, or E because an eprom may reside from 1000H to E000H.

NOTE: The term 'delimiter' refers to any punctuation following a word or numerical sequence. These include: , . ; : ! ? spaces and carriage-returns.

CODE-TO-SPEECH ALGORITHM

Upon power-up (or hardware reset) the CTS256A-AL2 determines the system configuration with respect to the following five options:

1- INTERNAL / EXTERNAL RAM SELECTION: (Refer to TABLE 1.)

INTERNAL-RAM mode has an input buffer which accommodates words or phrases that are no greater than 19 characters in length followed by a delimiter; and an output buffer that accommodates an allophone translation of that word or phrase that is no greater than 26 allophone addresses.

Since the translation more often than not results in the output buffer contents consisting of two times that of the input buffer, words no longer than 13 characters in length and numerical sequences of no longer than 4 numbers in length should be used as a rule of thumb. If the output buffer overflows, what has not been spoken yet from the output buffer might be lost, and the BUSY* flag will not necessarily show an input buffer empty status even though the input buffer might be empty. If a translation results in an output buffer overflow, the system reset may have to be used to clear the system.

EXTERNAL-RAM mode can be used to extend the size of the input and output buffers. If no EXCEPTION-WORD or USER eproms are present, the start address default is 3000H. Static RAM can be added in 256 byte contiguous block increments, beginning with a minimum of 512 bytes. The algorithm will find the end address by searching for the first non-RAM location at 256 byte intervals. The search for the end address will not progress beyond 2K bytes.

If an eprom is present, the start and end addresses are re-definable there. Requirements are: minimum start address is 0200H; the start address must begin on a boundary where the LSByte of the address = 00; and without the end address specified in eprom, the maximum valid start address is EE00H.

In any case, 256 bytes are taken for the output buffer; the remainder is the input buffer. (External-Ram used must have an access time of 250 nS or less.)

- 2- **ROM:** A search is made from 1000H to E000H in 4K increments for the 5 byte sequence (80H, 48H, 28H, 58H, 85H) which uniquely identifies the presence of an EXCEPTION-WORD or USER eprom. If neither are present, the system options are set to algorithm default values or can be chosen by the Pin selectable options. If only a USER eprom is present, the system options may be re-defined from the USER eprom; refer to APPENDIX-0. If both USER and EXCEPTION-WORD eproms are present or if only an EXCEPTION-WORD eprom is present, the system option may be re-defined from the EXCEPTION-WORD eprom; refer to APPENDIX-A,B. (External-Ram used must have an access time of 300nS or less.)

Exception-Word Eprom(s): (optional)

Exception-word eprom(s) may reside anywhere within the decodeable addressspace of the CTS256A-AL2 from 1000H to E000H, providing its start address falls on a 4K boundary. The code-to-speech initialization routine will search for its existence which is denoted by a unique 5-byte sequence of numbers (80H, 48H, 28H, 58H, 85H). A few other locations in the primary

Exception-Word Eprom(s): (Cont'd)

exception-word eprom are reserved, and must contain specific sequences of numbers; the remainder are user-defined. Additional exception-word eprom(s) contiguous to the primary exception-word eprom contain no reserved locations. Refer to APPENDIX-A, B for the applicable EXCEPTION-WORD EPROM MEMORY MAP.

User-Eprom(s): (optional)

If a USER eprom is accompanied by an EXCEPTION-WORD eprom, it may reside anywhere. If no EXCEPTION-WORD eprom accompanies it then it may reside anywhere from 1000H to E000H providing its start address falls on a 4K boundary; and it must then begin with the sequence 80H, 48H, 28H, 58H, 85H; and also contain other reserved locations. If an EXCEPTION-WORD eprom is present, the USER's program can even reside in an unused portion of the EXCEPTION-WORD eprom. Refer to APPENDIX-D,E for the applicable USER EPROM MEMORY MAP.

Interaction between a USER program and the code-to-speech algorithm must be controlled in an orderly manner, ie; the user must save the processor status before taking control of the processor for execution of any USER code (except for character string loading operations, which is described next.)

To prepare the code-to-speech algorithm to process and speak, the USER program passes the character string it wants spoken into the Accumulator one character at a time, then calls the routine @SAVE which transfers it into the input buffer. After the character string loading has been completed, the USER code can initiate the speech by calling the @SPEAK routine; assuming that a delimiter followed that character string. After the loaded character string is processed and spoken, program control resumes in the hands of the USER program by the Branch @USERCODE instruction.

No registers used by the code-to-speech algorithm may be disturbed by the USER code during character string loading, (except for the Accumulator).

Prior to the USER code executing anything other than character string loading, all registers used by the code-to-speech algorithm as well as the Stack Pointer and STATUS register are to be saved. These registers must be recovered prior to future character string loading operations; or prior to initiating speech.

Because of masked code-to-speech restrictions within the CTS256A-AL2, Interrupt-1* and Interrupt-3* are not USER accessible. Also, input from the serial port into the USER code can be obtained, but restrictions apply.

Refer to APPENDIX-F for a discussion of the sequence of events and subroutines necessary for USER/CODE-TO-SPEECH interactions as described above.

3- Serial / Parallel Input Interface Selection: (Refer to TABLE 1.)

In the parallel mode, ASCII data is latched by an 74LS374, upon receipt of an Active LO data-valid strobe. This strobe also vectors the algorithm to accept the data via Interrupt-3*, PIN 12 of the CTS256A-AL2. The latch's address default is 200H. It is re-definable from EXCEPTION-WORD or USER eprom. (Refer to TABLE 9 for timing requirements of the parallel port.)

In the serial mode, ASCII data is accepted via the CTS256A-AL2 PIN 16, which is a built-in UART that requires a TTL level signal input. The baud rate is selectable at 50,110,300,1200,2400,4800 and 9600. The other UART parameters are set to algorithm default values, or are hardware selectable via an 74LS373 buffer. The buffer address default is 1000H. The UART parameters as well as the baud rate is re-definable from EXCEPTION-WORD or USER eprom. The algorithm default UART values are: Asynchronous, 7 bits/character, 2 stop bits, and no parity.

In either serial or parallel mode, the input buffer is protected from overflow by a hysteresis subroutine which signals the host when the input buffer is full, and when the input buffer is ready for additional input. Hardware handshaking (BUSY*) is provided to accomplish this signaling of input buffer status.

BUSY* is Active-LO. It toggles LO when the input buffer becomes 87.5% full. In this way the host system may use its discretion to complete that transmission or a part thereof. If the input buffer becomes 100% full, the parallel and serial port interrupts are disabled to prevent input buffer overwrite; and the interrupts are not re-enabled until the input buffer full condition has dissipated. BUSY* will toggle hi when the input buffer becomes 50% empty; at which time the interrupts are enabled if they had been disabled by a 100% full condition. (BUSY* is PIN-3 of the CTS256A-AL2 which is a TTL level output capable of sinking 10 mA maximum.)

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4- Software / Hardware (or Firmware) UART Parameters Selection: (Refer to TABLE 1.)

This hardware option tells the code-to-speech algorithm to use the default UART values, or to find the parameters at the 74LS373 buffer. The buffer address default is 1000H. The UART parameters are re-definable from eeprom, but only if the hardware mode is selected via Pin 9 of the CTS256A-AL2.

5- Any-Delimiter / Carriage-Return-Only Selection: (Refer to TABLE 1.)

In the any-delimiter mode, the code-to-speech algorithm will process and speak words or phrases as soon as they are followed by any delimiter. In the carriage-return-only mode, the algorithm will process and speak words or phrases only after a carriage-return is received as a delimiter. The carriage-return-only mode is meant for use with a slow input device such as a terminal, where the user wishes to buffer-up a complete phrase so that it is spoken with fluency. If the carriage-return-only mode is chosen in conjunction with EXTERNAL-RAM, limit to 160 characters the length of the phrase which is entered before the carriage-return is entered. This allows for a two line phrase to be spoken with fluency while insuring that the 256 byte output buffer should not overflow.

After completion of the initialization the phrase "O.K." is spoken to demonstrate that the system is ready for input, then one of the following two paths is taken dependent upon the system configuration:

- 1: In a 'dedicated code-to-speech system' (ie; USER eeprom is not present), the algorithm idles as long as the input buffer remains empty. Input is via standard ASCII characters. Processing begins with an alphabetical search of the EXCEPTION-WORD eeprom, if it is present. If no exact match for the character string is found, or if an EXCEPTION-WORD eeprom is not present, the algorithm employs a letter-to-sound rule table against which main, right, and left context matches are performed. This results in the translation of a particular word into the proper string of allophone addresses necessary for its pronunciation. This list of allophone address is sent to the SP0256A-AL2 after a carriage-return, or after any delimiter—depending on the mode selected.
- 2: In the 'add speech to USER's program' mode (ie; USER eeprom is present), control of the processor is relinquished to the USER code immediately after the initialization is complete. The USER code may then execute its own code, may pass character strings into the input buffer memory, or may hand-off processor control to the code-to-speech algorithm to speak any previously loaded character strings. If speech is initiated, control returns to the USER code after the last delimited character string in the input buffer has been processed. Refer to APPENDIX-F.

TABLE 1.

Hardware selectable option pin-outs of CTS256A-AL2:

PIN 6 7 8

0 0 0	← PARALLEL INPUT MODE	
0 0 1	BAUD 50	SERIAL INPUT MODE
0 1 0	BAUD 110	
0 1 1	BAUD 300	
1 0 0	BAUD 1200	
1 0 1	BAUD 2400	
1 1 0	BAUD 4800	
1 1 1	BAUD 9600	

PIN 9

- 0 ←PROGRAM DEFAULT UART VALUES (Asynchronous, 7 bits/character, 2 stop bits, no parity).
- 1 ←HARDWARE (or FIRMWARE) SELECTED UART VALUES.

PIN 10

- 0 ← INTERNAL-RAM BUFFERS, (20 BYTE INPUT/26 BYTE OUTPUT).
- 1 ← EXTERNAL-RAM BUFFERS, (1792 BYTE INPUT/256 BYTE OUTPUT WITH A 2-KBYTE RAM).

TABLE 1. Con't.

- PIN 11
 0 ← CARRIAGE-RETURN-ONLY DELIMITER.
 1 ← ANY DELIMITER.
- PIN 03 "BUSY\$" (Input buffer flag is a TTL level output); for RS232 compatibility use MC1488 Line Driver or equiv.
 0 → INPUT BUFFER IS ≥ 87.5% FULL.
 1 → INPUT BUFFER IS ≤ 50.0% EMPTY.
- PIN 16 → UART RECEIVER (Serial input is a TTL level input); for RS232 compatibility use MC1489 Line Receiver or equiv.

NOTE: 0 implies TLL LO level; 1 implies TTL HI level.
 ← implies input; → implies output.

A typical connection to a computer with an RS232 interface:

COMPUTER CODE-TO-SPEECH CHIP-SET
 protective GND ↔ signal GND (Circuit ground).
 signal GND ↔ signal GND (Circuit ground).
 Clear To Send (CTS) ← Request To Send (RTS) = CTS256A-ALs's PIN 3 (BUSY\$).
 Transmitter's Line Driver → CTS256A-AL2 UART's Line Receiver.

TABLE 2. NEW PARAMETERS.

X009	FF	NUMBER OF BYTES OF 50% OF EXTERNAL INPUT BUFFER (MSB)
X00A	FF	NUMBER OF BYTES OF 50% OF EXTERNAL INPUT BUFFER (LSB)
X00B	FF	NUMBER OF BYTES OF 12.5% OF EXTERNAL INPUT BUFFER (MSB)
X00C	FF	NUMBER OF BYTES OF 12.5% OF EXTERNAL INPUT BUFFER (LSB)
X00D	FF	EXTERNAL RAM START ADDRESS (MSB) see note 2.3
X00E	FF	EXTERNAL RAM START ADDRESS (LSB) see note 2.3
X00F	FF	EXTERNAL RAM END ADDRESS-100H (MSB) see note 2.3
X010	FF	EXTERNAL RAM END ADDRESS-100H (LSB) see note 2.3
X011	FF	EXTERNAL RAM START ADDRESS-1 (MSB) see note 2.3
X012	FF	EXTERNAL RAM START ADDRESS-1 (LSB) see note 2.3
X013	FF	EXTERNAL RAM END ADDRESS-FFH (MSB) see note 2.3
X014	FF	EXTERNAL RAM END ADDRESS-FFH (LSB) see note 2.3
X015	FF	EXTERNAL RAM END ADDRESS + 1 (MSB) see note 2.3
X016	FF	EXTERNAL RAM END ADDRESS + 1 (LSB) see note 2.3
X017	FF	ADDRESS DECODE OF SPO256A-AL2's ALDs (MSB) see note 2.4
X018	FF	ADDRESS DECODE OF SPO256A-AL2's ALDs (LSB) see note 2.4
X019	FF	ADDRESS DECODE OF 74LS374 PARALLEL PORT LATCH (MSB)
X01A	FF	ADDRESS DECODE OF 74LS374 PARALLEL PORT LATCH (LSB)
X01B	FF	see note 2.1
X01C	FF	TOTAL NUMBER OF BYTES IN INPUT BUFFER (MSB)
X01D	FF	TOTAL NUMBER OF BYTES IN INPUT BUFFER (LSB)
X01E	FF	see note 2.1
X01F	FF	see note 2.1
X020	FF	SERIAL PORT REGISTER (see table 5) see note 2.5
X021	FF	SERIAL PORT CONTROL REGISTER (see table 6) see note 2.5
X022	FF	SERIAL PORT TIMER DATA REGISTER (see table 6) see note 2.5

└ YOUR EXCEPTION-WORD OR USER EPROM CAN RESIDE ANYWHERE FROM 1000H TO E000H PROVIDING IT BEGINS ON A 4K BOUNDARY WHERE X = 1,2,3,4,5,6,7,8,9,A,B,C,D, or E. (The least significant 3 nibbles of the address must remain as shown.)

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- NOTE 2.1 THESE LOCATIONS MUST BE FF, (THEY ARE NOT USER DEFINABLE).
- NOTE 2.2 TO MAINTAIN ANY PARAMETER AT ITS DEFAULT VALUE, LOAD THAT LOCATION WITH FFH.
- NOTE 2.3 IF ANY OF THE EXTERNAL RAM BUFFER PARAMETERS ARE REDEFINED HERE, ALL OF THEM MUST BE REDEFINED HERE.
- NOTE 2.4 NO MATTER WHAT ADDRESS IS CHOSEN FOR ALD\$, THAT ADDRESS THRU THAT ADDRESS + 3FH IS RESERVED FOR SPO256A-AL2 ADDRESSING.
- NOTE 2.5 IF ANY OF THE SERIAL PORT PARAMETERS ARE REDEFINED HERE, ALL OF THEM MUST BE REDEFINED HERE.
- NOTE 2.6 H, AS IN 100H REFERS TO HEXADECIMAL NOTATION.
- NOTE 2.7 A NIBBLE IS HALF OF A BYTE, OR 4 BITS.

TABLE 3. SAMPLE OF ASSEMBLED ALPHABETIZED EXCEPTION-WORD INDEX.

X0A3	X1	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "A"
X0A4	93	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "A"
X0A5	X1	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "B"
X0A6	A8	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "B"
X0A7	X1	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "C"
X0A8	A9	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "C"
X0A9	X1	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "D"
X0AA	B1	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "D"
X0AB	X1	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "E"
X0AC	B2	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "E"
X0AD	X1	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "F"
X0AE	B3	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "F"
X0AF	X1	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "G"
X0B0	B4	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "G"
X0B1	X1	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "H"
X0B2	E1	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "H"
X0B3	X1	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "I"
X0B4	E2	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "I"
X0B5	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "J"
X0B6	OD	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "J"
X0B7	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "K"
X0B8	OE	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "K"
X0B9	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "L"
X0BA	OF	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "L"
X0BB	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "M"

TABLE 3. (Cont'd)

X0BC	1B	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "M"
X0BD	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "N"
X0BE	1C	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "N"
X0BF	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "O"
X0CO	1D	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "O"
X0C1	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "P"
X0C2	1E	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "P"
X0C3	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "Q"
X0C4	2D	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "Q"
X0C5	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "R"
X0C6	2E	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "R"
X0C7	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "S"
X0C8	2F	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "S"
X0C9	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "T"
X0CA	30	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "T"
X0CB	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "U"
X0CC	3D	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "U"
X0CD	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "V"
X0CE	5A	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "V"
X0CF	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "W"
X0DO	5B	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "W"
X0D1	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "X"
X0D2	64	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "X"
X0D3	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "Y"
X0D4	65	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "Y"
X0D5	X2	MSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "Z"
X0D6	6F	LSB OF POINTER TO START OF EXCEPTION-WORD BEGINNING WITH "Z"
X0D7	X2	MSB OF POINTER TO START EXCEPTION-WORD BEGINNING WITH "NUMBER OF PUNCTUATION"
X0D8	70	LSB OF POINTER TO START EXCEPTION-WORD BEGINNING WITH "NUMBER OF PUNCTUATION"

The least significant nibble of the MSB and the entire LSB address locations will vary with a different set of exception words; X = 1,2,3,4,5,6,7,8,9,A,B,C,D,or E.

YOUR EXCEPTION-WORD EPROM CAN RESIDE ANYWHERE FROM 1000H TO E000H PROVIDING IT BEGINS ON A 4K BOUNDARY WHERE X = 1,2,3,4,5,6,7,8,9,A,B,C,D,or E. (The least significant 3 nibbles of the address must remain as shown.)

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TABLE 4. SAMPLE OF ASSEMBLED ENCODED EXCEPTION-WORDS

X193 13 6E 24 AA:	DB 19,110,36,185,19,90,11,1,33,19,0,18,15,0,1,65,34,39,20,141	
X196 B9 13 5A 0B 01 21 13 00 12 0F		
X1A0 00 01 41 22 27 14 8D		
X1A7 FF	; <[ANDY]< = [AE NN1 PA2 DD2 IY PA1 DH1 AX PA1 PA2 GG3 RR2 EY TT2] ANDY-THE-GREAT DB 255	
X1A8 FF	BB: DB 255	
X1A9 13 61 B0 C:	DB 19,97,176,33,106,20,137; <[CAP]A = [KK1 EY PP]	CAPABILITY
X1AC 21 6A 14 89		
X1B0 FF	DB 255	
X1B1 FF	D: DB 255	
X1B2 FF	E: DB 255	
X1B3 FF	F: DB 255	
X1B4 13 E9 13 6:	DB 19,233,19,74,7,11,51,62,0,12,11,55,13,39,31,16,7,11,2,141	
X1B7 4A 07 0B 33 3E 00 0C 0B 37 0D		
X1C1 27 1F 10 07 0B 02 BD		
X1C8 13 E9 2D	; <[GI]< = [JH EH NN1 ER1 EL PA1 IM NN1 SS TT2 RR2 UW2 MM EH NN1 PA3 TT2] ; GENERAL INSTRUMENT DB 19,233,45,33,41,44,19,74,7,11,51,62,0,12,11,55,13,39,31,16,7,11,2,141	
X1CB 21 29 2C 13 4A 07 0B 33 3E 00		
X1D5 0C 0B 37 0D 27 1F 10 07 0B 02		
X1DF 8D		
X1E0 FF	; <[GI][MAIL< = [JH EH NN1 ER1 EL PA1 IH NN1 SS TT2 RR2 UW2 MM EH NN1 PA3 TT2] DB 255	
X1E1 FF	H: DB 255	
X1E2 13 E4 13 I:	DB 19,228,19,70,0,33,7,11,2,13,12,40,12,2,42,20,37,15,139; <[ID]< = [AY PA1	
X1E5 46 00 21 07 0B 02 0D 0C 2B 0C		
X1EF 02 2A 14 25 0F 8B		
X1F5 13 73 2C	; DD2 EH NN1 PA3 TT2 IH FF IH PA3 KK1 EY SH AX NN1 DB 19,115,44,165,19,70,1,190; <[ISLE]< = [AY PA2 EL]	IDENTIFICATION ISLE
X1FB A5 13 46 01 BE		
X1FD 13 73 2C	DB 19,115,44,33,46,164,19,70,0,45,26,11,1,21,1; <[ISLAND]< = [AYPA2ELAENN1DD1]	
X200 21 2E A4 13 46 00 2D 1A 0B 01		
X20A 15 01		
X20C FF	DB 255	
X20D FF	J: DB 255	
X20E FF	K: DB 255	
X20F 13 69 36 L:	DB 19,105,54,37,164,19,109,12,35,3,149; <[LIVED]< = [LL IH VV PA4 DD1]	LIVED
X212 25 A4 13 6D 0C 23 03 95		
X21A FF	DB 255	
X21B FF	M: DB 255	
X21C FF	N: DB 255	
X21D FF	O: DB 255	
X21E 13 75 32 P:	DB 19,117,50,48,47,51,165,19,73,51,9,15,55,183; <[PURPOSE]< = [PPER1PPAXSSSS]	
X221 30 2F 33 A5 13 49 33 09 0F 37		
X22B B7		
X22C FF	DB 255	
X22D FF	Q: DB 255	
X22E FF	R: DB 255	
X22F FF	S: DB 255	

TABLE 4. (Cont'd)

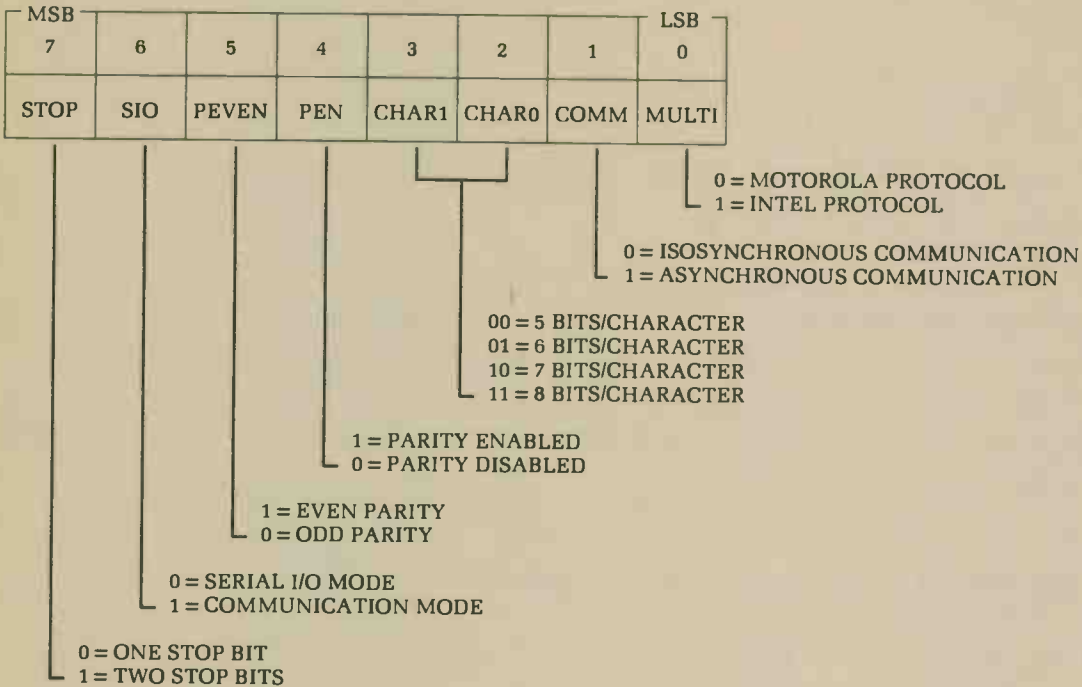
X230 13 6F 34	T: DB 19,111,52,33,172,19,77,53,13,0,15,190;	<[TOTAL]< = [TT2 OW TT1 PA1 AX EL]	
X233 21 AC 13 4D	35 0D 00 0F BE		
X23C FF	DB 255		
X23D 13 73 25	U: DB 19,115,37,50,41,164,19,113,22,43,51,1,6,0,33,7,11,2,13,12,40,12,2,42,20,37		
X240 32 29 A4	13 71 16 2B 33 01 06		
X24A 00 21 07 0B	02 0D 0C 2B 0C 02		
X254 2A 14 25			
X257 0F BB	DB 15,139;<[USERID]< = [YY1 UM1 ZZ ER1 PA1 AY PA1 DD2 EH NN1 PA3 TT2 IH FF IH		
	;PA3 KK1 EY SH AX NN1]		
X259 FF	DB 255		
X25A FF	V: DB 255		
X25B 13 65 07	W: DB 19,101,7,50,165,110,19,180	; <[WE'RE] = [WW IY ER2]	WE'RE
X25E 32 A5 6E	13 B4		
X263 FF	DB 255		
X264 FF	X: DB 255		
	;		
X265 13 6F 35	Y: DB 19,111,53,7,50,165,19,89,186	; <[YOU'RE] < = [YY2 OR]	YOU'RE
X268 07 32 A5	13 59 BA		
X26E FF	DB 255		
	;		
X26F FF	Z: DB 255		
	;		
X270 13 CF 13	NUMORPUN: DB 19,207,19,89,58,1,16,7,55,55,12,1,10,0,2,42,26		
X273 59 3A 01	10 07 37 37 0C 01 0A		
X27D 00 02 2A	1A		
X281 0B 01 3F	DB 11,1,63,19,0,55,55,2,9,53,2,42,7,11,0,46,12,29,0,18,15,0,2,13,15,2,50		
X284 13 00 37 37	02 09 35 02 2A 07		
X2BE 0B 00 2E 0C	1D 00 12 0F 00 02		
X29B 0D 0F 02	32		
X29C 00 0F 23	DB 0,15,35,0,20,0,2,42,19,128		
X29F 00 14 00 02 2A	13 80		
	; <[] < = [YY1 OR PA2 MM EH SS SS IH PA2 JH PA1 PA3 KK1 AE NN1 PA1 PA2 BB2 IY		
	;PA1 SS SS PA3 PP OW PA3 KK1 EM NN1 PA1 WW IH TH PA1 DH1 AX PA1 PA3		
	;TT2 AX PA3 CH PA1 AX VV PA1 EY PA1 PA2 KK1 EY PA1]YOU'RE MESSAGE CAN BE SPOKEN		
	;WITH THE TOUCH OF A KEY		
	;		
X2A6 C6 5A 0B	DB 198,90,11,21,128	; [&] = [AE NN1 DD1 PA1]	AND
X2A9 15 80			
X2AB FF	DB 255	; MUST END EACH CATEGORY WITH [].	

WHERE X = 1,2,3,4,5,6,7,8,9,A,B,C,D, or E. (The least significant 3 nibbles of the address will vary with a different set of exception words.)

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TABLE 5. SERIAL PORT MODE REGISTER



FOR TYPICAL APPLICATIONS USE: MOTOROLA PROTOCOL, ASYNCHRONOUS COMMUNICATION, 7 BITS/CHARACTER, and COMMUNICATION MODE; THE NUMBER OF STOP BITS AND PARITY MODE REMAIN UP TO THE USER.

TABLE 6. SERIAL PORT CONTROL REGISTER / TIMER REGISTER

$$\text{Asynchronous Baud Rate} = \frac{2.5 \text{ MH:}}{64(\text{PL} + 1)(\text{TL} + 1)}$$

$$\text{Isosynchronous Baud Rate} = \frac{2.5 \text{ MH:}}{4(\text{PL} + 1)(\text{TL} + 1)}$$

where: PL = prescale latch value
TL = timer latch value

Example: To program the serial port to operate at 300 baud in the asynchronous mode, the prescaler value is set to 0, and the timer latch value to 81H.

MSB	7	6	5	4	3	2	1	LSB	0
	X	1	0	0	0	0	PRE1		PRE0



MSB	7	6	5	4	3	2	1	LSB	0
TIMER LATCH VALUE (TL)									

TABLE 7. ASCII CHARACTER SET ENCODED VALUES

LETTER	ENCODED VALUE (shown in Hexadecimal).	LETTER	ENCODED VALUE (shown in Hexadecimal).
A	21	N	2E
B	22	O	2F
C	23	P	30
D	24	Q	31
E	25	R	32
F	26	S	33
G	27	T	34
H	28	U	35
I	29	V	36
J	2A	W	37
K	2B	X	38
L	2C	Y	39
M	2D	Z	3A

TABLE 8. ALLOPHONE ADDRESS ENCODED VALUES (shown in Hexadecimal).

ENCODED VALUE	SAMPLE ALLPHONE	WORD	DURATION (as)	ENCODED VALUE	SAMPLE ALLPHONE	WORD	DURATION (as)
00	PA1	PAUSE	10	20	AW	OUt	250
01	PA2	PAUSE	30	21	DD2	Do	80
02	PA3	PAUSE	50	22	GG3	wiG	120
03	PA4	PAUSE	100	23	VV	Vest	130
04	PA5	PAUSE	200	24	GG1	Guest	80
05	OY	bOY	290	25	SH	SHip	120
06	AY	skY	170	26	ZH	aZUre	130
07	EH	End	50	27	RR2	bRain	80
08	KK3	Coab	80	28	FF	Food	110
09	PP	Pow	150	29	KK2	sKy	140
0A	JH	dodGe	400	2A	KK1	Can't	120
0B	NN1	thiN	170	2B	ZZ	Zoo	150
0C	IH	sIt	50	2C	NG	aNchor	200
0D	TT2	To	100	2D	LL	Lake	80
0E	RR1	Rural	130	2E	WW	Wool	140
0F	AX	sUceed	50	2F	XR	repaIR	250
10	MM	Milk	180	30	WH	WHig	150
11	TT1	parT	80	31	YY1	Yes	90
12	DH1	THEy	140	32	CH	CHurch	150
13	IY	sEE	170	33	ER1	fIR	110
14	EY	bElge	200	34	ER2	fIR	210
15	DD1	coulD	50	35	OW	bEAU	170
16	UW1	tO	60	36	DH2	THEy	180
17	AO	OUght	70	37	SS	veST	60
18	AA	hOt	60	38	NN2	No	140
19	YY2	Yes	130	39	HH2	Hoe	130
1A	AE	hAt	80	3A	OR	stORe	240
1B	HH1	He	90	3B	AR	alARe	200
1C	BB1	Business	40	3C	YR	cleAR	250
1D	TH	THin	130	3D	GG2	Got	80
1E	UN	bOOk	70	3E	EL	saddLE	140
1F	UW2	fOOD	170	3F	BB2	Business	60

TABLE 9. PARALLEL PORT TIMING REQUIREMENTS:

SETUP TIME, BEFORE DATA CLOCK LO TO HI TRANSITION: MIN. 20 nS. HOLD TIME, BEFORE DATA CLOCK LO TO HI TRANSITION: MIN. 10 nS. WIDTH OF CLOCK LO: MIN. 500 nS.

HOLD OFF TIME, FROM DATA STROBE HI TO LOW TO HI, UNTIL NEXT DATA STROBE HI TO LOW: MIN. 450 uS.

NOTE: The addition of an 74LS74 Flip-Flop as shown on the schematic can be used for parallel port latch handshaking using the Active-LO LATCH-BUSY\$ output. LATCH-BUSY\$ is LO when the latch is full, and it is HI when the latch is empty and available for the next character to be strobed in.

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APPENDIX-A

Exception-Word Eprom Map (For use without USER eprom present)

NOTE: ENCAPSULATED SEQUENCES ARE USER-DEFINED, REFER TABLES 2,3, AND 4.

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F

X000 80 48 28 58 85 E0 35 E0 31 FF FF FF FF FF FF FF

←sample
NEW PARAMETERS.
(see table 2).

X010 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

X020 FF FF FF 1E 1F 20 21 28 29 24 25 22 23 2A 2B 26

←NEW PARAMETER
INITIALIZATION
ROUTINE.

X030 27 2C 2D 2E 2F 32 33 34 35 36 E0 65 78 02 31 BE
X040 F1 43 C5 AA X0 09 2D FF E2 1E B8 AA X0 23 D5 12
X050 D0 13 B9 9B 13 C3 AA X0 09 2D FF E2 0B B8 AA X0
X060 23 D5 12 D0 13 B9 9B 13 5D 16 E6 E9 C3 AA X0 09
X070 2D FF E2 14 A2 40 11 82 11 A2 15 11 C3 AA X0 09
X080 82 15 C3 AA X0 09 82 14 98 29 03 98 2B 07 22 20
X090 9B 03 BE F7 2B 9B 03 05 98 07 09 98 03 19 8C F1

The MSnibble of the following locations
from the NEW PARAMETER INITIALIZATION
ROUTINE are user defined also:
X044,X04C,X057,X05F,X06E,X07E,and X084;
where X = 1,2,3,4,5,6,7,8,9,A,B,C,D,or E.

X0A0 00 E0 36 X1 93 X1 AB X1 A9 X1 B1 X1 B2 X1 B3 X1

←sample
ALPHABETIZED
EXCEPTION-WORD
INDEX, where X = 1,2,3,4,5,6,7,8,9,A,B,C,D,or E.
(see table 3).

X0B0 B4 X1 E1 X1 E2 X2 0D X2 0E X2 0F X2 1B X2 1C X2

X0C0 1D X2 1E X2 2D X2 2E X2 2F X2 30 X2 3D X2 5A X2

X0D0 5B X2 64 X2 65 X2 6F X2 70 D8 02 D8 03 98 03 11

←EXCEPTION-WORD
ROUTINE.

X0E0 BE F7 4B 8E F7 0F 77 01 0A 05 74 80 0B E0 03 73
X0F0 7F 0B BE F3 AF 76 20 0A 0E 52 34 AA X0 A3 D0 14
X100 AA X0 A4 D0 15 E0 0F C5 2A 41 2C 02 AA X0 A3 D0
X110 14 AA X0 A4 D0 15 52 01 BE F4 88 8E F4 C2 76 10
X120 0A 4D 2D FF E2 60 98 11 1D 73 BF 0A 8E F5 64 76
X130 10 0A 3C 8E F4 7E 74 40 0A 8E F5 64 76 10 0A 42
X140 48 37 34 79 00 35 D5 37 73 FD 0B 52 02 8E F4 88
X150 8E F4 9E 98 0F 03 98 03 11 8E F7 4B 77 80 0B 0A
X160 DB 39 8E F3 47 C9 C9 8C F1 36 C9 C9 8C F3 F4 D3
X170 15 E7 02 D3 14 52 02 8E F4 88 72 01 37 73 FD 0B
X180 E0 99 52 03 E0 F1 D9 03 D9 02 D5 37 73 FD 0B 8C

The MSnibble of the following locations
from the EXCEPTION-WORD ROUTINE are user
defined also: X0FC,X101,X10D,and X112;
where X = 1,2,3,4,5,6,7,8,9,A,B,C,D,or E.

X190 F3 EE FF 13 6E 24 B9 13 5A 0B 01 21 13 00 12 0F

←sample
ENCODED
EXCEPTION-WORDS.
(see table 4).

X1A0 00 01 41 22 27 14 8D FF FF 13 61 B0 21 6A 14 89
X1B0 FF FF FF FF 13 E9 13 4A 07 0B 33 3E 00 0C 0B 37
X1C0 0D 27 1F 10 07 0B 02 BD 13 E9 2D 21 29 2C 13 4A
X1D0 07 0B 33 3E 00 0C 0B 37 0D 27 1F 10 07 0B 02 8D
X1E0 FF FF 13 E4 13 46 00 21 07 0B 02 0D 0C 28 0C 02
X1F0 2A 14 25 0F BB 13 73 2C A5 13 46 01 BE 13 73 2C
X200 21 2E A4 13 46 00 2D 1A 0B 01 15 01 FF FF FF 13
X210 69 36 25 A4 13 6D 0C 23 03 95 FF FF FF FF 13 75
X220 32 30 2F 33 A5 13 49 33 09 0F 37 B7 FF FF FF FF
X230 13 6F 34 21 AC 13 4D 35 0D 00 0F BE FF 13 73 25
X240 32 29 A4 13 71 16 2B 33 01 06 00 21 07 0B 02 0D
X250 0C 28 0C 02 2A 14 25 0F BB FF FF 13 65 07 32 A5
X260 6E 13 B4 FF FF 13 6F 35 07 32 A5 13 59 BA FF FF
X270 13 CF 13 59 3A 01 10 07 37 37 0C 01 0A 00 02 2A
X280 1A 0B 01 3F 13 00 37 37 02 09 35 02 2A 07 0B 00
X290 2E 0C 1D 00 12 0F 00 02 0D 0F 02 32 00 0F 23 00
X2A0 14 00 02 2A 13 80 C6 5A 0B 15 80 FF

(see APPENDIX-C
for discussion
of encoding scheme.)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F

YOUR EXCEPTION-WORD EPROM CAN RESIDE ANYWHERE FROM
1000H TO E000H, PROVIDING IT BEGINS ON A 4K BOUNDARY WHERE X = 1,2,3,4,5,6,7,8,9,A,B,C,D,or E.

APPENDIX-B

Exception-Word Eprom Map (For use without USER eprom present)

NOTE: ENCAPSULATED SEQUENCES ARE USER-DEFINED, REFER TABLES 2,3, AND 4.

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F

X000 80 48 28 58 85 E0 35 E0 31 FF FF FF FF FF FF FF

← sample
NEW PARAMETERS.
(see table 2).

X010 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF

X020 FF FF FF 1E 1F 20 21 28 29 24 25 22 23 2A 2B 26

← NEW PARAMETER
INITIALIZATION
ROUTINE.
The MSnibble of the following locataions
from the NEW PARAMETER INITIALIZATION
ROUTINE are user defined also:
X044,X04C,X057,X05F,X06E,X07E,and X084;
where X = 1,2,3,4,5,6,7,8,9,A,B,C,D,or E.
←(see note 1 below).

X030 27 2C 2D 2E 2F 32 33 34 35 36 E0 65 78 02 31 BE
X040 F1 43 C5 AAX0 09 2D FF E2 1E B8 AA X0 23 D5 12
X050 D0 13 B9 9B 13 C3 AA X0 09 2D FF E2 0B B8 AA X0
X060 23 D5 12 D0 13 B9 9B 13 5D 16 E6 E9 C3 AA X0 09
X070 2D FF E2 14 A2 40 11 82 11 A2 15 11 C3 AA X0 09
X080 82 15 C3 AAX0 09 82 14 98 29 03 98 2B 07 22 20
X090 9B 03 BE F7 2B 9B 03 05 98 07 09 98 03 19 8C MS

X0A0 LS E0 36 X1 93 X1 AB X1 A9 X1 B1 X1 B2 X1 B3 X1

← sample
ALPHABETIZED
EXCEPTION-WORD
INDEX, where X = 1,2,3,4,5,6,7,8,9,A,B,C,D,or E.
(see table 3).

X0B0 B4 X1 E1 X1 E2 X2 0D X2 0E X2 0F X2 1B X2 1C X2
X0C0 1D X2 1E X2 2D X2 2E X2 2F X2 30 X2 3D X2 5A X2

← EXCEPTION-WORD
ROUTINE.

X0D0 5B 82 64 82 65 82 6F 82 70 D8 02 D8 03 98 03 11

The MSnibble of the following locations
from the EXCEPTION-WORD ROUTINE are user
defined also: X0FC,X101,X10D,and X112;
where X = 1,2,3,4,5,6,7,8,9,A,B,C,D,or E.

X0E0 BE F7 4B 8E F7 0F 77 01 0A 05 74 80 0B E0 03 73
X0F0 7F 0B BE F3 AF 76 20 0A 0E 52 34 AA 80 A3 D0 14
X100 AA 80 A4 D0 15 E0 0F C5 2A 41 2C 02 AA 80 A3 D0
X110 14 AA 80 A4 D0 15 52 01 BE F4 88 8E F4 C2 76 10
X120 0A 4D 2D FF E2 60 98 11 1D 73 BF 0A BE F5 64 76
X130 10 0A 3C 8E F4 7E 74 40 0A 8E F5 64 76 10 0A 42
X140 48 37 34 79 00 33 D5 37 73 FD 0B 52 02 8E F4 88
X150 8E F4 9E 98 0F 03 98 03 11 8E F7 4B 77 80 0B 0A
X160 DB 39 BE F3 47 C9 C9 8C F1 36 C9 C9 8C F3 F4 D3
X170 15 E7 02 D3 14 52 02 BE F4 88 72 01 37 73 FD 0B
X180 E0 99 52 03 E0 F1 D9 03 D9 02 D5 37 73 FD 0B 8C

X190 F3 EE FF 13 6E 24 B9 15 5A 0B 01 21 13 00 12 0F

← sample
ENCODED
EXCEPTION-WORDS.
(see table 4).

X1A0 00 01 41 22 27 14 8D FF FF 13 61 B0 21 6A 14 89
X1B0 FF FF FF FF 13 E9 13 4A 07 0B 33 3E 00 0C 0B 37
X1C0 0D 27 1F 10 07 0B 02 8D 13 E9 2D 21 29 2C 13 4A
X1D0 07 0B 33 3E 00 0C 0B 37 0D 27 1F 10 07 0B 02 BD
X1E0 FF FF 13 E4 13 46 00 21 07 0B 02 0D 0C 2B 0C 02
X1F0 2A 14 25 0F BB 13 73 2C A5 13 46 01 BE 13 73 2C
X200 21 2E A4 13 46 00 2D 1A 0B 01 15 01 FF FF FF 13
X210 69 36 25 A4 13 6D 0C 23 03 95 FF FF FF FF 13 75
X220 32 30 2F 33 A5 13 49 33 09 0F 37 B7 FF FF FF FF
X230 13 6F 34 21 AC 13 4D 35 0D 00 0F BE FF 13 73 25
X240 32 29 A4 13 71 16 2B 33 01 06 00 21 07 0B 02 0D
X250 0C 28 0C 02 2A 14 25 0F BB FF FF 13 65 07 32 A5
X260 6E 13 B4 FF FF 13 6F 35 07 32 A5 13 59 BA FF FF
X270 13 CF 13 59 3A 01 10 07 37 37 0C 01 0A 00 02 2A
X280 1A 0B 01 3F 13 00 37 37 02 09 35 02 2A 07 0B 00
X290 2E 0C 1D 00 12 0F 00 02 0D 0F 02 32 00 0F 23 00
X2A0 14 00 02 2A 13 80 C6 5A 0B 15 80 FF

(see APPENDIX-C
for discussion
of encoding scheme).

NOTE: 1. APPENDIX-B is the same as APPENDIX-A, except for two address. These are X09F and X0A0 (MSB and LSB respectively, labeled MS and LS above). Place the origin of the MAIN-CONTROL-PROGRAM (see APPENDIX-F) in these locations so that program control will transfer to the user's code at the appropriate time.

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APPENDIX-C

Exception-Word Encoding Scheme

To store a unique word or symbol and its corresponding allophone address string in an efficient and flexible manner, the following encoding format was derived:

<[encoded word or symbol]< = [encoded allophone address(es)]

where: < equals 13H.
 [equals 40H.
] equals 80H.

The first and last byte is 13H. This informs the code-to-speech algorithm that the word or symbol is not a prefix or suffix.

If the word or symbol is an individual letter, then the representation of it between the brackets is an FFH; this includes the value of the left and right brackets.

Otherwise:

- (1) The first letter in the word or symbol is always to be ignored.
- (2) The next letter in the word is represented by the value of the letter from TABLE-7, plus the value of the left bracket “[” which is 40H.
- (3) The following letter(s), if and only if it is not the last letter in the word or symbol, is represented solely by its value from TABLE-7.
- (4) The last letter in the word or symbol is represented by the value of the letter from TABLE-7, plus the value of the right bracket “]” which is 80H.

The allophone address string is encoded in a similar manner:

If only one allophone is used for the pronunciation, it is represented by its value from TABLE-6, plus the value of the right “[” and left “]” brackets which are 40H and 80H respectively.

Otherwise:

- (1) The first allophone is represented by its value from TABLE-8, plus the value of the left bracket “[” which is 40H.
- (2) The following allophone(s), if and only if it is not the last allophone in the string, is represented by its value from TABLE-8.
- (3) The last allophone is represented by its value from TABLE-8 plus the value of the right bracket “]” which is 80H.

Example: To encode “Au” to pronounce as “GOLD”

<[Au]< = [GG2 0W LL DD1]

13,F5,13, 7D, 35,2D,95 ← This line is ready to store in EXCEPTION-WORD epros under the “A” category.

↑ (The encoded string is shown in Hexadecimal notation.)

—Remember, throw away the first letter (in this case an “A”), then find the value of the next letter in TABLE-7 and add 40H plus 80H to it so as to represent the left “[” and right “]” brackets.

APPENDIX-D

User Eprom Map (For use without EXCEPTION-WORD eprom)

NOTE: ENCAPSULATED SEQUENCES ARE USER-DEFINED, REFER TABLES 2,3, AND 4.

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
X000	80	48	28	58	85	E0	35	E0	31	FF	FF	FF	FF	FF	FF	FF
X010	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
X020	FF	FF	FF	1E	1F	20	21	28	29	24	25	22	23	2A	2B	26
X030	27	2C	2D	2E	2F	32	33	34	35	36	E0	65	78	02	31	BE
X040	F1	43	C5	AA	X0	09	2D	FF	E2	1E	B8	AA	X0	23	D5	12
X050	D0	13	B9	9B	13	C3	AA	X0	09	2D	FF	E2	0B	B8	AA	X0
X060	23	D5	12	D0	13	B9	9B	13	5D	16	E6	E9	C3	AA	X0	09
X070	2D	FF	E2	14	A2	40	11	82	11	A2	15	11	C3	AA	X0	09
X080	82	15	C3	AA	X0	09	82	14	98	29	03	98	2B	07	22	20
X090	9B	03	BE	F7	2B	9B	03	05	98	07	09	98	03	19	8C	MS

← sample NEW PARAMETERS. (see table 1).

← NEW PARAMETER INITIALIZATION ROUTINE. The MSnibble of the following locations from the NEW PARAMETER INITIALIZATION ROUTINE are user defined also: X044,X04C,X057,X05F,X06E,X07E, and X084; where X = 1,2,3,4,5,6,7,8,9,A,B,C,D, or E. ←(see note A on following page).

APPENDIX-D (Cont'd)

X0A0 LS 8C F3 F4

User code may start at X0A4, but must contain the MAIN-CONTROL-PROGRAM somewhere within, refer to APPENDIX-F.

NOTE A. Place the immediate address of the origin of the MAIN-CONTROL-PROGRAM (see APPENDIX-F) in these locations; so that program control will transfer to the user's code at the appropriate time.

APPENDIX-E

USER EPROM MAP (For use with EXCEPTION-WORD eeprom)

NOTE 1. Contains no reserved locations, except for the MAIN-CONTROL PROGRAM. (See APPENDIX-F).

NOTE 2. A user's code does not have to reside in a second eeprom (USER eeprom). It may reside in an unused portion of an EXCEPTION-WORD eeprom which is for use where "USER eeprom is present". Refer APPENDIX-B.

APPENDIX-F

USER'S MAIN CONTROL PROGRAM (For residency anywhere within USER eeprom).

NOTE: ENCAPSULATED AREAS ARE USER DEFINED UNLESS OTHERWISE NOTED.

F1AC =	AUDIBLE	EQU 0F1ACH	;< ---	| THESE ARE ADDRESS VECTORS WITHIN | THE MASKED CODE-TO-SPEECH ALGORITHM.
F3E7 =	GISPEECH	EQU 0F3E7H	;< ---	
F1E2 =	SAVE	EQU 0F1E2H	;< ---	
F1F0 =	ESCAPE	EQU 0F1F0H	;< ---	
000B =	F2	EQU R11		
0002 =	F1HI	EQU R2		
0003 =	F1LO	EQU R3		
0004 =	R1HI	EQU R4		
0005 =	R1LO	EQU R5		
0007 =	F2LO	EQU R7		
0009 =	R2LO	EQU R9		
0038 =	WORDCNTH	EQU R56		
0039 =	WORDCNTL	EQU R57		
0032 =	BUFBVALU	EQU R50		
0000 =	IOCNT0	EQU P0		

9000 ORG > 9000 ;This is the origin of the Main Control Program which is defined by the user.
 ;Here it is arbitrarily chosen to be 9000H. Remember to place this immediate
 ;address in the "MS", "LS" locations of the EXCEPTION-WORD eeprom ("for use
 ;with USER eeprom"), see APPENDIX-B. (MS = MSB = 90 and the LS = LSB = 00 in
 ;this example.)

9000 BEF1AC MESSAGE: CALL @AUDIBLE
 + ----- THIS ENCAPSULATED AREA IS NOT USER DEFINED ----- +
 | The following two lines are placed here only if the user code wishes to gain
 | access to the serial port.

|	XXXX XXXX	ANDP % > FE, IOCNT1	;	DISABLE INTERRUPT-4 (SERIAL PORT).	|
|	XXXX XXXX	ANDP % FE, PORTB	;	SET BUSY* LO.	|

(The XXXX XXXX here does not have the same meaning as the X from the previous appendices and tables.)

+ ----- +
 9003 E00E JMP ANYSTART

9005 BC9046 CRSTART: BR @USERCODE ;THE BRANCH ADDRESS BELOW IS USER DEFINED.
 ;AFTER INITIALIZATION OR AFTER PROCESSING AND
 ;SPEAKING WHAT HAS BEEN LOADED INTO THE INPUT
 ;BUFFER CONTROL TRANSFERS TO THE USER CODE VIA THIS
 ;BRANCH INSTRUCTION.

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APPENDIX-F (Cont'd)

```

900B 76010B07  SPEAK:  BTJO % > 01,F2,ANYSTART
900C 73EF0B      AND % > EF,F2
900F 77100BFC  CRWAIT:  BTJZ %10,F2,CRWAIT
9013 4D0305      ANYSTART: CMP F1LO,R1LO
9016 E607        JNE HOLEWORD
9018 4D0204      CMP F1HI,R1HI
901B E602        JNE HOLEWORD
901D E0E6        JMP CRSTART
901F 7D0038      HOLEWORD: CMP % > 00,WORDCNTH
9022 E605        JNE BFULTEST
9024 7D0039      CMP % > 00,WORDCNTL
9027 E2F6        JEQ HOLEWORD
9029 770B0B09    BFULTEST: BTJZ % > 08,F2,PROCESS
902D 7D0132      LOCKUP:  CMP % > 01,BUFVALU
9030 E211        JEQ ESC
9032 760B0BFC    BFULHOLD: BTJO % > 08,F2,BFULHOLD
9036 BEF3D7      PROCESS:  CALL @GISPEECH
9039 4D0709      MAINROUT: CMP F2LO,R2LO
903C E205        JEQ ANYSTART
903E A40100      DRP % > 01,10CNT0
9041 E0D0        JMP ANYSTART
9043 BCF1F0      ESC:    BR @ESCAPE
    
```

9046 00

USERCODE: NOP

```

;FROM THIS POINT IT IS THE USER CODES RESPONSIBILITY
;TO EXECUTE ITS OWN CODE OR TO LOAD A CHARACTER
;STRING INTO THE INPUT BUFFER.
;THE TWO EXAMPLES SHOWN BELOW DEMONSTRATE THE
;RECOMMENDED SEQUENCE OF EVENTS FOR EACH MODE.
;MODE 1 IS USED WHEN THE USER CODE HAS PREVIOUSLY
;PREPARED THE CHARACTER STRING IT WISHES TO HAVE
;SPOKEN; MODE 2 IS USED WHEN THE USER CODE WISHES
;TO EXECUTE ANYTHING ELSE.
    
```

MODE1:

```

;LOADING INPUT BUFFER OF CODE-TO-SPEECH ALGORITHM:
;
;ACCUMULATOR AND STATUS REGISTER ARE TO BE SAVED.
;NO OTHER REGISTER IS TO BE MODIFIED.
;Loading a character string is accomplished
;by placing each character into the Accumulator and
;then using CALL @SAVE to load it into the input
;buffer. Remember to end each word or phrase with a
;delimiter. Restore the Accumulator and the Status Registers. Call @SPEAK to
;process
;and speak the word(s) or phrase(s) that were loaded.
    
```

NOTE: Once "SPEAK" is initiated, control does not return to the USERCODE until the last word or phrase that is in the input buffer has been processed by the code-to-speech algorithm. NOTE: Because of masked code-to-speech restrictions, the USER can not intercept input from the serial port while speech processing is in progress. During this interval, handshaking (BUSY*) shall hold off additional serial communication. This is accomplished by the two encapsulated lines shown above.

```

;THE FOLLOWING EXAMPLE WILL LOAD THE LETTER "A" AND
;SPEAK IT:
    
```

```

9047 0E          PUSH ST
9048 B8          PUSH A
9049 2241        MOV % > 41,A
904B 8EF1E2      CALL @SAVE
904E 222D        MOV % > 0D,A
9050 BEF1E2      CALL @SAVE
9053 B9          POP A
9054 08          POP ST
9055 8C900B      BR @SPEAK
    
```

```

;SAVE CONTENTS OF STATUS REGISTER.
;SAVE CONTENTS OF ACCUMULATOR.
;MOVE 41H (which is ASCII "A") into the ACCUMULATOR.
;LOAD THE ASCII "A" INTO THE INPUT BUFFER.
;MOVE 0DH (which is a carriage return).
;LOAD THE DELIMITER INTO THE INPUT BUFFER.
;RECOVER CONTENTS OF ACCUMULATOR.
;RECOVER CONTENTS OF STATUS REGISTER.
;TRANSFER CONTROL TO THE MAIN-CONTROL-PROGRAM WHICH
;WILL ACCESS THE CODE-TO-SPEECH ALGORITHM; AFTER WHICH
;THE CONTROL WILL RETURN TO THE "BR @USERCODE" INSTRUCTION
LOCATION.
    
```

APPENDIX-F (Cont'd)

9058 00

MODE2: NOP

```

;
;The following is the recommended
;sequence of events necessary for the user's code
;to do anything else (except for loading the input
;buffer as described under MODE 1.)
;
;SAVE STATUS REGISTER
;SAVE REGISTER 0 THRU 39H (EXTERNAL-RAM MODE), along with 3AH thru
;current Stack Pointer.
;OR, SAVE REGISTER 0 THRU 7FH (INTERNAL-RAM MODE).
;(DO NOT USE PUSH INSTRUCTIONS TO SAVE THE REGISTERS BECAUSE
;THE STACK IS NOT LARGE ENOUGH, INSTEAD
;BLOCK MOVE THE RESPECTIVE REGISTER CONTENTS INTO
;EXTERNAL-USER-RAM.
;
;USER DEFINED CODE GOES HERE NEXT.
;
;(TO READ THE SERIAL PORT, SEE THE EXAMPLE SEQUENCE BELOW).
;
;THEN RECOVER RESPECTIVE REGISTERS.
;RECOVER STATUS REGISTER.
;BRANCH TO MODE 1, OR BRANCH TO OTHER USER CODE such as the
;example shown below
;for reading the serial port.
;The following is the recommended sequence of events necessary
;for the user's code to obtain input from the serial port:
;
;ENABLE INTERRUPT-4 (SERIAL PORT) BECAUSE WANT TO RECEIVE SERIAL
;INPUT.
;SET BUSY$ HI.
;WAIT HERE FOR SERIAL INTERRUPT TO OCCUR AND TO BE SERVICED.
;DISABLE INTERRUPT-4 (SERIAL PORT).
;
;THE CHARACTER RECEIVED BY SERIAL PORT IS IN THE ACCUMULATOR,
;SO THE USER MAY EVALUATE IT HERE.
;
;LOAD A "BACKSPACE" INTO ACCUMULATOR IN ORDER TO TEL.
;THE CODE-TO-SPEECH INPUT BUFFER TO IGNORE THE CHARACTER
;WHICH ARRIVED VIA THE SERIAL PORT.
;
;
;IF USER WANTS ADDITIONAL CHARACTERS FROM THE SERIAL PORT TO
;EVALUATE:
;JUMP TO LOOP TO WAIT FOR NEXT SERIAL PORT INTERRUPT (JMP LOOP).
;
;OTHERWISE: ENABLE INTERRUPT-4 (DRP %>01,IOCNT1), SET BUSY$ LO
;(ANDP %>FE,PORTB),
;THEN FALL THRU TO REST OF USER CODE.

```

LOOP: DRP %>01,IOCNT1

```

DRP %>01,PORTB
IDLE
ANDP %>FE,IOCNT1

```

NOP

```

MOV %>08,A
CALL @SAVE

```

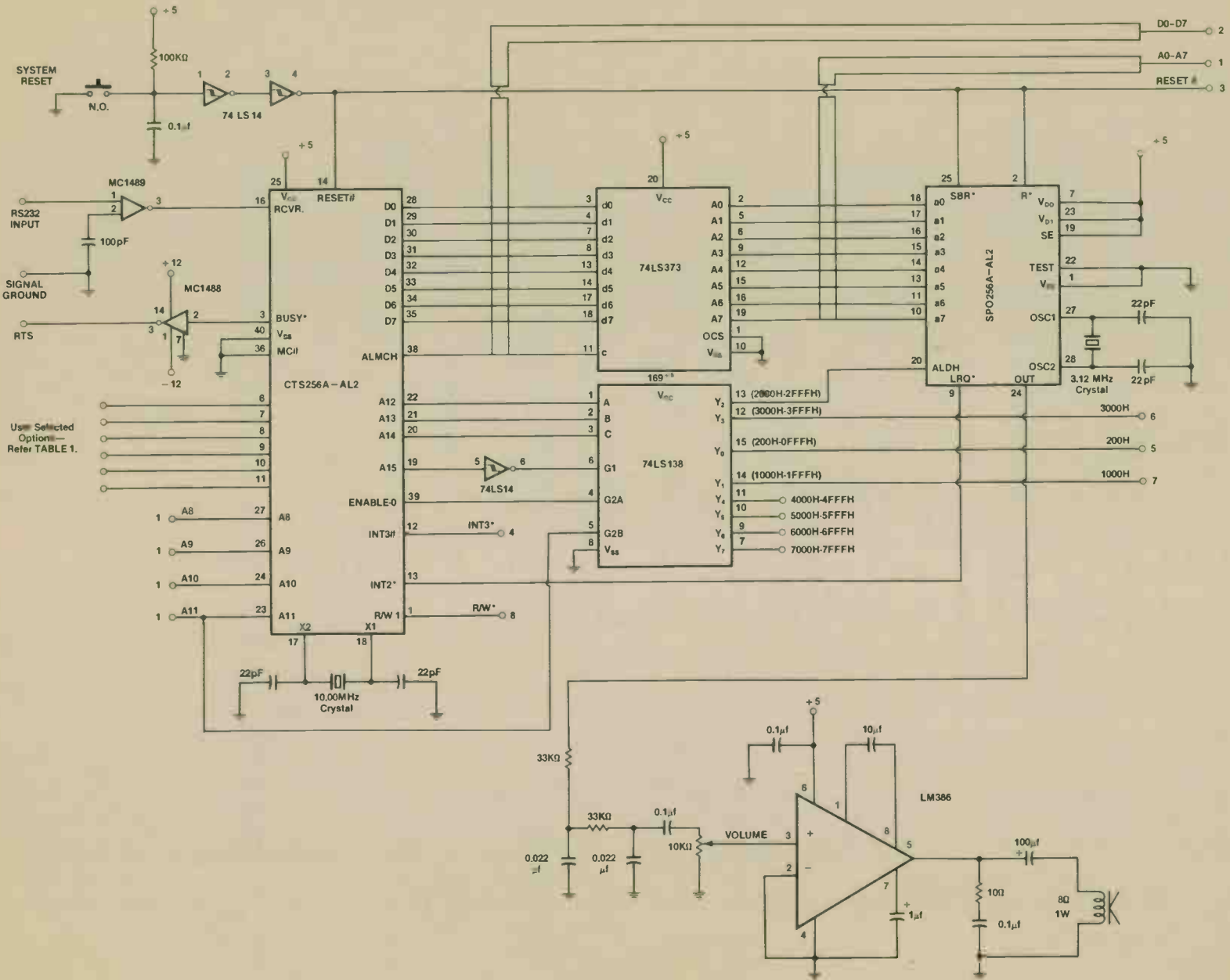
NOP

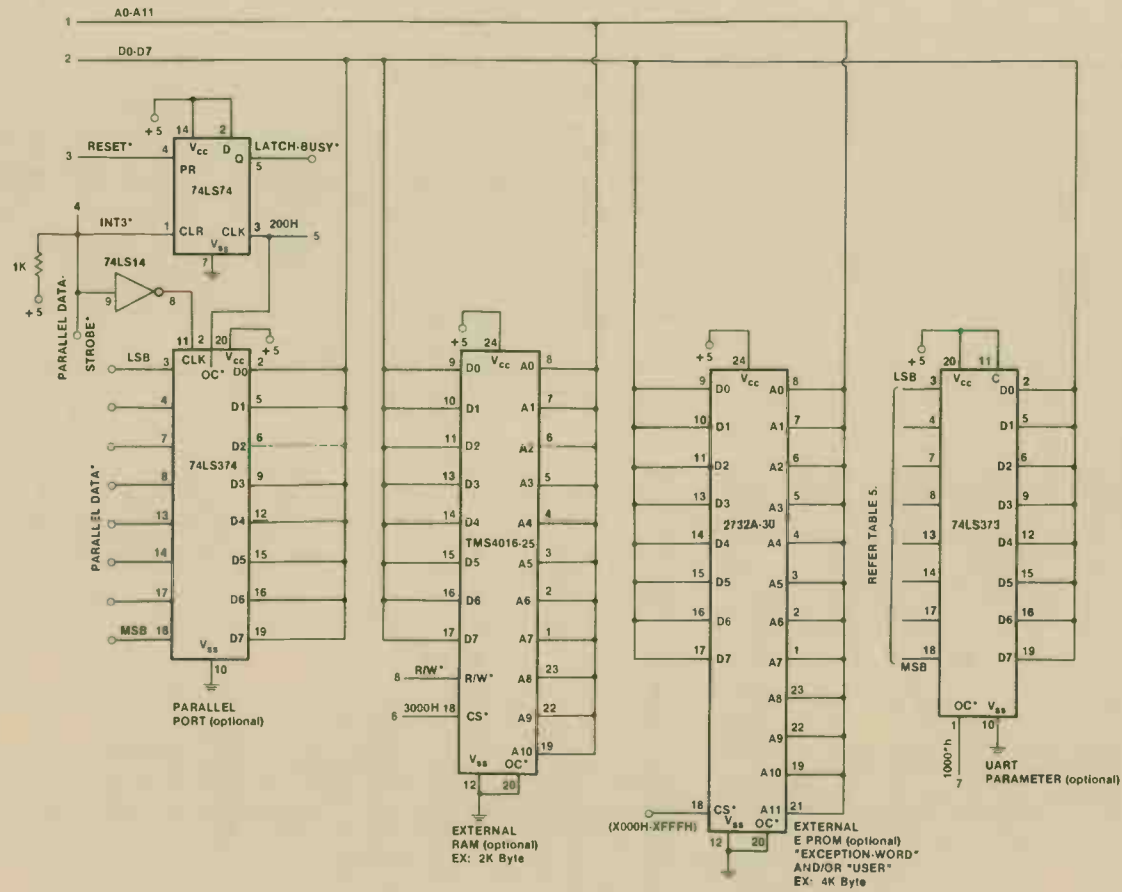
NOTE: To successfully incorporate a USER program with the code-to-speech algorithm requires a thorough understanding of the concepts described in this application note, and an in-depth working knowledge of PIC7001 assembly language.

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TYPICAL APPLICATION





TYPICAL APPLICATION
(USER OPTIONS)

CTS256AL2 276-1786

MICROCOMPUTER (8-BIT)

SP0256
276-1784

SPEECH PROCESSOR



GENERAL DESCRIPTION

The SP0256 (Speech Processor) is a single chip N-Channel MOS LSI device that is able, using its stored program to synthesize speech or complex sounds.

The achievable output is equivalent to a flat frequency response ranging from 0 to 5KHz, a dynamic range of 42dB, and a signal to noise ratio of approximately 35 dB.

The SP0256 incorporates four basic functions:

- A. A software programable digital filter that can be made to model a VOCAL TRACT.
- B. A 16K ROM which stores both data and instructions (THE PROGRAM).
- C. A MICROCONTROLLER which controls the data flow from the ROM to the digital filter, the assembly of the "word settings" necessary for linking speech elements together, and the amplitude and pitch information to excite the digital filter.
- D. A PULSE WIDTH MODULATOR that creates a digital output which is converted to an analog signal when filtered by an external low pass filter.

FEATURES

- Natural Speech
- Wide Operating Voltage
- Simple Interface to Most Microcomputers or Microprocessors
- Supports L.P.C. Synthesis: Formant Synthesis: Allophone Synthesis

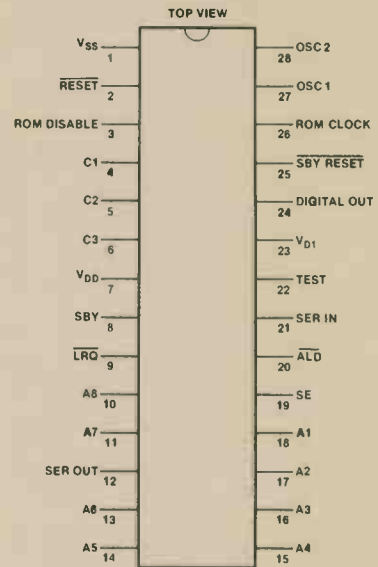
ABSOLUTE MAXIMUM RATINGS

Supply Voltage (V_{DD})	7 V
(V_{D1})	7 V
All Pins With Respect to V_{SS}	-0.3 To 8 V
Supply Current (I_{DD}) ($V_{D1}, V_{DD}=7V$)	
(Reset and SBY Reset High)	90 mA
Supply Current (I_{D1}) ($V_{D1}, V_{DD}=7V$)	
(Reset and SBY Reset High)	21 mA
Storage Temperature Range	-25°C To 125°C
Operating Temperature Range	0°C To 70°C

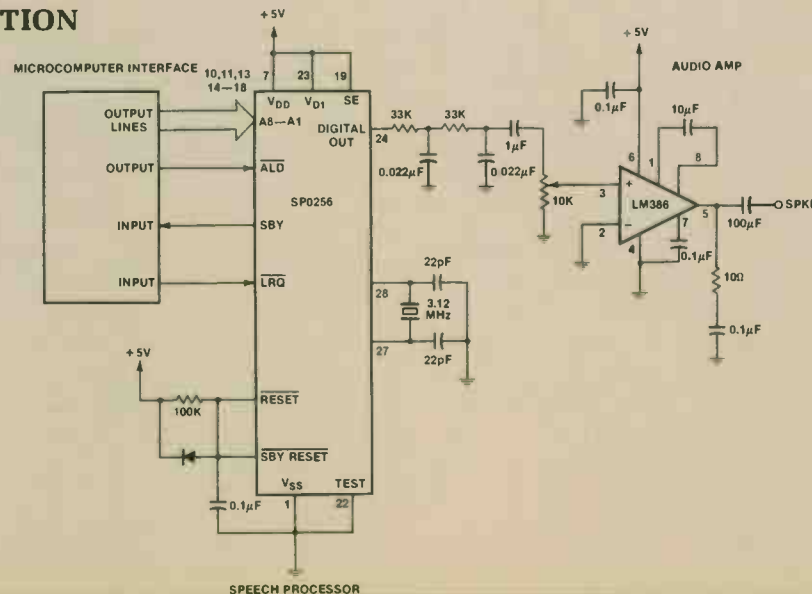
STANDARD CONDITIONS

Clock-Crystal Frequency 3.120 MHz

PIN CONNECTION



TYPICAL APPLICATION



ALLOPHONE USAGE WITH A MICROPROCESSOR

The SPO256 requires the use of a processor to concatenate the speech sounds to form words.

The SPO256 is controlled using the address pins (A1-A8), ALD (Address Load), and SE (Strobe Enable). The object for controlling the chip is to load an address into it which contains the desired allophone. The speech data for the allophone set is contained within the internal 16 K ROM of the SPO256.

This particular application (Allophone Set) requires only six address pins (A1-A6) to address all the 59 allophones plus five pauses, a total of 64 locations. For simplicity, since only six address pins are needed to address the 64 locations, pins A7 and A8 can be tied low (to ground) and now any further references to the address bus will include A1-A6 and A7=A8=0.

There are two modes available for loading an address into the chip. SE (Strobe Enable) controls the mode that will be used.

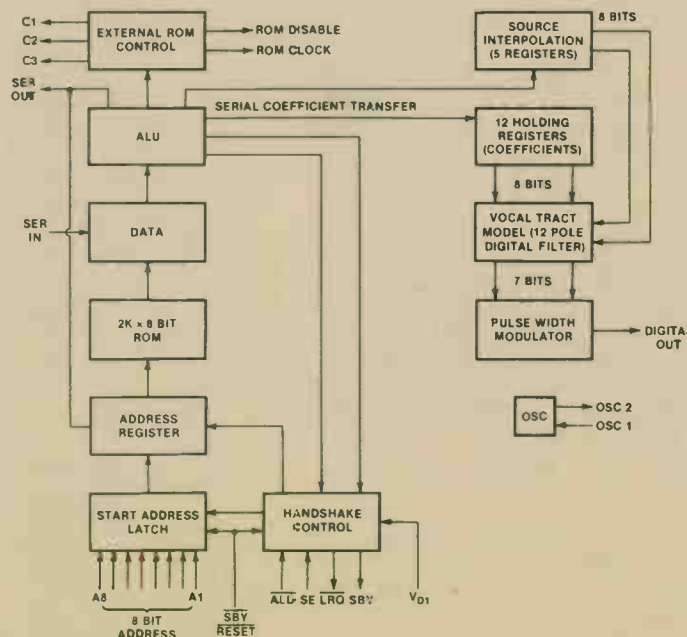
Mode 0 (SE=0) will latch in an address when any one or more of the address pins makes a low to high transition. For example, to load the address one (1), A2 to A6=0 and A1 is pulsed high. To load the address twelve (12 octal), A1=A3=A5=A6=0, A2 and A4 are pulsed high simultaneously. (Note that an address of zero cannot be loaded using this mode).

Mode 1 (SE=1) will latch in an address using the ALD pin. First, setup the desired address on the address bus (A1=A6) and then pulse ALD low. Any address can be loaded using this mode, but certain setup and hold times are required.

Two microprocessor interface pins are available for quick loading of addresses. They are LRQ and SBY. LRQ (Load Request) tells the processor when the input buffer is full. SBY (Stand By) tells the processor that the chip has stopped talking and no new address has been loaded. Either interface pin can be used when concatenating allophones. LRQ is an active low signal, when LRQ goes low it is time to load a new address to the chip. If LRQ is high, then simply wait for it to go low before loading the address. SBY will stay high until an address is loaded, then it will go low and stay low until all the internal instructions (Speech Code) from that one address are completed. Once this signal goes high, it is time to load a new address. Since speech does not require very fast address loading, it would be acceptable to use SBY to interface to the processor.

To end a word using allophones it is necessary to load a pause to complete the word. For example, the word "TWO" can be implemented using the following allophones, TT2-VW2-PA1. PA1 is actually not an allophone but a pause which is needed to end the word.

BLOCK DIAGRAM



N-CHANNEL MOS (AUDIO)

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ALLOPHONE BASED SPEECH PROCESSOR—SP0256-AL2

PIN FUNCTIONS

PIN NUMBER	NAME	FUNCTION
1	V _{SS}	Ground
2	$\overline{\text{RESET}}$	A logic 0 resets that portion of the SP powered by V _{DD} . Must be returned to a logic 1 for normal operation.
3	ROM DISABLE	For use with an external serial speech ROM, a logic 1 disables the external ROM.
4, 5, 6	C1, C2, C3	Output control lines for use with an external serial speech ROM.
7	V _{DD}	Power supply for all portions of the SP except the microprocessor interface logic.
8	SBY	STANDBY. A logic 1 output indicates that the SP is inactive and V _{DD} can be powered down externally to conserve power. When the SP is reactivated by an address being loaded, SBY will go to a logic 0.
9	$\overline{\text{LRQ}}$	LOAD REQUEST. $\overline{\text{LRQ}}$ is a logic 1 output whenever the input buffer is full. When $\overline{\text{LRQ}}$ goes to a logic 0, the input port may be loaded by placing the 8 address bits on A1-A8 and pulsing the $\overline{\text{ALD}}$ output.
10, 11, 13, 14, 15, 16, 17, 18,	A8, A7, A6, A5, A4, A3, A2, A1	8 bit address which defines any one of 256 speech entry points.
12	SER OUT	SERIAL ADDRESS OUT. This output transfers a 16-bit address serially to an external speech ROM.
19	SE	STROBE ENABLE. Normally held in a logic 1 state. When tied to ground, $\overline{\text{ALD}}$ is disabled and the SP will automatically latch in the address on the input bus approximately 1 μ s after detecting a logic 1 on any address line.
20	$\overline{\text{ALD}}$	ADDRESS LOAD. A negative pulse on this input loads the 8 address bits into the input port. The negative edge of this pulse causes $\overline{\text{LRQ}}$ to go high.
21	SER IN	SERIAL IN. This is an 8-bit serial data input from an external speech ROM.
22	TEST	This pin should be grounded for normal operation.
23	VD1	Power supply for the microprocessor interface logic and controller.
24	DIGITAL OUT	Pulse width modulated digital speech output which, when filtered by a 5KHz low pass filter and amplified, will drive a loudspeaker.
25	$\overline{\text{SBY RESET}}$	STANDBY RESET. A logic 0 resets the microprocessor interface logic and the address latches. Must be returned to a logic 1 for normal operation.
26	ROM CLOCK	This is a 1.56MHz clock output used to drive an external serial speech ROM.
27	OSC1	XTAL IN. Input connection for a 3.12MHz crystal.
28	OSC2	XTAL OUT. Output connection for a 3.12MHz crystal

ALLOPHONE SPEECH SYNTHESIS

INTRODUCTION

The allophone speech synthesis technique provides the user with the ability to synthesize an unlimited vocabulary at a very low bit rate. Fifty-nine discrete speech sounds (called allophones) and five pauses are stored at different addresses in the SPO256 internal ROM. Each speech sound was excised from a word and analyzed using linear predictive coding (LPC). Any English word or phrase can be created by addressing the appropriate combination of allophones and pauses. Since there is a total of 64 address locations each requires a 6 bit address. Assuming that speech contains 10 to 12 sounds per second, allophone synthesis requires addressing less than 100 bits per second.

LINGUISTICS

A few basic linguistic concepts will help you start your own library of "allophone words". (See Table 1 for Allophone Dictionary). First, there is no one-to-one correspondence between written letters and speech sounds; secondly, speech sounds are acoustically different depending upon their position within

LINGUISTICS (Continued)

a word; and lastly, the human ear may perceive the same acoustic signal differently in the context of different sounds.

The first point compares to the problem that a child encounters when learning to read. Each sound in a language may be represented by more than one letter and, conversely each letter may represent more than one sound. (See the examples in Table 2.) Because of these spelling irregularities, it is necessary to think in terms of sounds, not letters, when using allophones.

The second, and equally important, point to understand, is that the acoustic signal of a speech sound may differ depending upon its position within a word. For example, the initial K sound in *coop* will be acoustically different from the K's in *keep* and *speak*. The K's in *coop* and *keep* differ due to the influence of the vowels which follow them, and the final K in *speak* is usually not as loud as initial K's.

Finally, a listener may identify the same acoustic signal differently depending on the context in which it is perceived. Don't be surprised, therefore, if an allophone word sounds slightly different when used in various phrases.

PHONEMES OF ENGLISH

The sounds of a language are called phonemes, and each language has a set which is slightly different from that of other languages. Table 3 contains a chart of all the consonant phonemes of English, table 4 all the vowel phonemes.

Consonants are produced by creating an occlusion or constriction in the vocal tract which produces an aperiodic sound source. If the vocal cords are vibrating at the same time, as in the case of the voiced fricatives VV, DH, ZZ, and ZH, (See Table 5) there are two sound sources: one which is aperiodic and one which is periodic.

Vowels are usually produced with a relatively open vocal tract and a periodic sound source provided by the vibrating vocal cords. They are classified according to whether the front or back of the tongue is high or low (See Table 4) whether they are long or short, and whether the lips are rounded or unrounded. In English all rounded vowels are produced in or near the back of the mouth (UW, UH, OW, AO, OR, AW).

Speech sounds which have features in common behave in similar ways. For example, the voiceless stop consonants PP, TT and KK (See Table 3) should be preceded by 50-80 msec of silence, and the voiced stop consonants BB, DD, and GG by 10-30 msec of silence.

ALLOPHONES

Phoneme is the name given to a group of similar sounds in a language. Recall that a phoneme is acoustically different depending upon its position within a word. Each of these positional variants is an allophone of the same phoneme. An allophone, therefore, is the manifestation of a phoneme in the speech signal. It is for this reason that our inventory of English speech sounds is called an allophone set.

HOW TO USE THE ALLOPHONE SET

(See Table 1 for instructions on how to create all the sample words mentioned in this section.) The allophone set (Refer to Table 5) contains two or three versions of some phonemes. It may be necessary to use one allophone of a particular phoneme for word-or-syllable-final position. A detailed set of guidelines for using the allophones is given in Table 5. Note that these are suggestions, not rules.

For example, DD2 sounds good in initial position and DD1 sounds good in final position, as a "daughter" and "collide." One of the differences between the initial and final versions of a consonant is that an initial version may be longer than the final version. Therefore, to create an initial SS, you can use two SSs instead of the usual single SS at the end of a word or syllable, as in "sister." Note that this can be done with TH and FF, and the inherently short vowels (to be discussed below), but with no other consonants. You will want to experiment with some consonant clusters (strings of consonants such as str, cl) to discover which version works best in the cluster. For example, KK1 sounds good before LL as in "clown," and KK2 sounds good before WW as in "square." One allophone of a particular phoneme may sound better before or

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HOW TO USE THE ALLOPHONE SET (Continued)

after back vowels and another before or after front vowels. KK3 sounds good before UH and KK1 sounds good before IY, as in "cookie." Some sounds (PP, BB, TT, DD, KK, GG, CH, and JH) require a brief duration of silence before them. For most of these, the silence has already been added but you may decide you want to add more. Therefore, there are several pauses included in the allophone set varying from 10-200 msec. To create the final sounds in the words "letter" and "little" use the allophone ER and EL.

Remember that you must always think about how a word sounds, not how it is spelled. For example, the NG sound is represented by the letter N in "uncle". And remember that some sounds may not even be represented in words by any letters, as the YY in "computer".

As mentioned earlier there are some vowels which can be doubled to make longer versions for stressed syllables. These are the inherently short vowels IH, EH, EA, EX, AA, and UH. For example, in the word "extent" use one EH in the first syllable, which is unstressed and two EHs in the second syllable which is stressed. Of the inherently long vowels there is one, UW, which has a long and short version. The short one, UW1, sounds good after YY in computer. The long version, UW2, sounds good in monosyllabic words like "two." Included in the vowel set is a group called R-colored vowels. These are vowel + R combinations. For example, the AR in "alarm" and the OR in "score." Of the R-colored vowels there is one, ER, which has a long and short version. The short version is good for polysyllabic words with final ER sounds like "letter," and the long version is good for monosyllabic words like "fir." One final suggestion is that you may want to add a pause of 30-50 msec. between words, when creating sentences, and a pause of 100-200 msec. between clauses.

Note: Every utterance must be followed by a pause in order to make the chip stop speaking the last allophone.

TABLE 1: THE ALLOPHONE DICTIONARY

NUMBERS

zero	ZZ YR OW
one, won	WW SX ZX NN1
two, to, too	TT2 UW2
three	TH RR1 IY
four, for, fore	FF FF OR
five	FF FF AY VV
six	SS SS IH IH PA3 KK2 SS
seven	SS SS EH EH VV IH NN1
eight, ate	EY PA3 TT2
nine	NN1 AA AY NN1
ten	TT2 EH EH NN1
eleven	IH LL EH EH VV IH NN1
twelve	TT2 WH EH EH LL VV
thirteen	TH ER1 PA2 PA3 TT2 IY NN1
fourteen	FF OR PA2 PA3 TT2 IY NN1
fifteen	FF IH FF PA2 PA3 TT2 IY NN1
sixteen	SS SS IH PA3 KK2 SS PA2 PA3 TT2 IY NN1
seventeen	SS SS EH VV TH NN1 PA2 PA3 TT2 IY NN1
eighteen	EY PA2 PA3 TT2 IY NN1
nineteen	NN1 AY NN1 PA2 PA3 TT2 IY NN1
twenty	TT2 WH EH EH NN1 PA2 PA3 TT2 IY
thirty	TH ER2 PA2 PA3 TT2 IY
forty	FF OR PA3 TT2 IY
fifty	FF FF IH FF FF PA2 PA3 TT2 IY
sixty	SS SS IH PA3 KK2 SS PA2 PA3 TT2 IY
seventy	SS SS EH VV IH NN1 PA2 PA3 TT2 IY
eighty	EY PA3 TT2 IY
ninety	NN1 AY NN1 PA3 TT2 IY
hundred	HH2 AX AX NN1 PA2 DD2 RR2 IH IH PA1 DD1

thousand	TH AA AW ZZ TH PA1 PA1 NN1 DD1
million	MM IH IH LL YY1 AX NN1

DAY OF THE WEEK:

Sunday	SS SS AX AX NN1 PA2 DD2 EY
Monday	MM AX AX NN1 PA2 DD2 EY
Tuesday	TT2 UW2 ZZ PA2 DD2 EY
Wednesday	WW EH EH NN1 ZZ PA2 DD2 EY
Thursday	TH ER2 ZZ PA2 DD2 EY
Friday	FF RR2 AY PA2 DD2 EY
Saturday	SS SS AE PA3 TT2 PA2 DD2 EY

MONTHS:

January	JH AE AE NN1 YY2 XR IY
February	FF EH EH PA2 BR RR2 UW2 XR IY
March	MM AR PA3 CH
April	EY PA3 PP RR2 IH IH LL
May	MM EY
June	JH UW2 NN1
July	JH UW1 LL AY
August	AO AO PA2 GG2 AX SS PA3 TT1
September	SS SS EH PA3 PP PA3 TT2 EH EH PA1 BB2 ER1
October	AA PA2 KK2 PA3 TT2 OW PA1 BB2 ER1
November	NN2 OW VV EH EH MM PA1 BB2 ER1
December	DD2 IY SS SS EH EH MM PA1 BB2 ER1

ALLOPHONE DICTIONARY (Continued)

LETTERS:

A EY
 B BB2 IY
 C SS SS IY
 D DD2 IY
 E IY
 F EH EH FF FF
 G JH IY
 H EY PA2 PA3 CH
 I AA AY
 J JH EH EY
 K KK1 EH EY
 L EH EH EL
 M EH EH EM
 N EH EH NN1
 O OW
 P PP IY
 Q KK1 YY1 UW2
 R AR
 S EH EH SS SS
 T TT2 IY
 U YY1 UW2
 V VV IY
 W DD2 AX PA2 BB2 YY1 UW2
 X EH EH PA3 KK2 SS SS
 Y WW AY
 Z ZZ IY

DICTIONARY

alarm AX LL AR MM
 bathe BB2 EH DH2
 bather BB2 EY DH2 ER1
 bathing BB2 EY DH2 IH NG
 beer BB2 YR
 bread BB1 RR2 EH EH PA1 DD1
 by BB2 AA AY
 calendar KK1 AE AE LL EH NN1 PA2 DD2 ER1
 clock KK1 LL AA AA PA3 KK2
 clown KK1 LL AW NN1
 check CH EH EH PA3 KK2
 checked CH EH EH PA3 KK2 PA2 TT2
 checker CH EH EH PA3 KK1 ER1
 checkers CH EH EH PA3 KK1 ER1 ZZ
 checking CH EH EH PA3 KK1 IH NG
 checks CH EH EH PA3 KK1 SS
 cognitive KK3 AA AA GG3 NN1 IH PA3 TT2 IH VV
 collide KK3 AX LL AY DD1
 computer KK1 AX MM PP1 YY1 UW1 TT2 ER
 cookie KK3 UH KK1 IY
 coop KK3 UW2 PA3 PP
 correct KK1 ER2 EH EH PA2 KK2 PA2 TT1
 corrected KK1 ER2 EH EH PA2 KK2 PA2 TT2 IH PA2 DD1
 correcting KK1 ER2 EH EH PA2 KK2 PA2 TT2 IH NG
 corrects KK1 ER2 EH EH PA2 KK2 PA2 TT1 SS
 crown KK1 RR2 AW NN1
 date DD2 EY PA3 TT2
 daughter DD2 AO TT2 ER1
 day DD2 EH EY
 divided DD2 IH VV AY PA2 DD2 IH PA2 DD1

emotional IY MM OW SH AX NN1 AX EL
 engage EH EH PA1 NN1 GG1 EY PA2 JH
 engagement EH EH PA1 NN1 GG1 EY PA2 JH MM EH EH NN1 PA2 PA3 TT2
 engages EH EH PA1 NN1 GG1 EY PA2 JH IH ZZ
 engaging EH EH PA1 NN1 GG1 EY PA2 JH IH NG
 enrage EH NN1 RR1 EY PA2 JH
 enraged EH NN1 RR1 EY PA2 JH PA2 DD1
 enrages EH NN1 RR1 EY PA2 JH IH ZZ
 enraging EH NN1 RR1 EY PA2 JH IH NG
 escape EH SS SS PA3 KK1 PA2 PA3 PP
 escaped EH SS SS PA3 KK1 PA2 PA3 PP PA2 TT2
 escapes EH SS SS PA3 KK1 PA2 PA3 PP SS
 escaping EH SS SS PA3 KK1 PA2 PA3 PP IH NG
 equal IY PA2 PA3 KK3 WH AX EL
 equals IH PA2 PA3 KK3 WH AX EL ZZ
 error EH XR OR
 extent EH KK1 SS TT2 EH EH NN1 TT2
 fir FF ER2
 freeze FF FF RR1 IY ZZ
 freezer FF FF RR1 IY ZZ ER1
 freezers FF FF RR1 IY ZZ ER1 ZZ
 freezing FF FF RR1 IY ZZ IH NG
 frozen FF FF RR1 OW ZZ EH NN1
 gauge GG1 EY PA2 JH
 gauged GG1 EY PA2 JH PA2 DD1
 gauges GG1 EY PA2 JH IH ZZ
 gauging GG1 EY PA2 JH IH NG
 hello HH EH LL AX OW
 hour AW ER1
 infinitive IH NN1 FF FF IH IH NN1 IH PA2 PA3 TT2 IH VV
 intrigue IH NN1 PA3 TT2 RR2 IY PA1 GG3
 intrigued IH NN1 PA3 TT2 RR2 IY PA1 GG3 PA2 DD1
 intrigues IH NN1 PA3 TT2 RR2 IY PA1 GG3 ZZ
 intriguing IH NN1 PA3 TT2 RR2 IY PA1 GG3 IH NG
 investigate IH IH NN1 VV EH EH SS PA2 PA3 TT2 IH PA1 GG1 EY PA2 TT2
 investigated IH IH NN1 VV EH EH SS PA2 PA3 TT2 IH PA1 GG1 EY PA2 TT2 IH PA2 DD1
 investigator IH IH NN1 VV EH EH SS PA2 PA3 TT2 IH PA1 GG1 EY PA2 TT2 ER1
 investigators IH IH NN1 VV EH EH SS PA2 PA3 TT2 IH PA1 GG1 EY PA2 TT2 ER1 ZZ
 investigates IH IH NN1 VV EH EH SS PA2 PA3 TT2 IH PA1 GG1 EY PA2 TT1 SS
 investigating EH EH NN1 VV EH EH SS PA2 PA3 TT2 IH PA1 GG1 EY PA2 TT2 IH NG KK1 IY
 key LL EH EH PA2 JH JH SS SS LL EY PA2 PA3 TT2
 legislated LL EH EH PA2 JH JH SS SS LL EY PA2 PA3 TT2 IH DD1
 legislates LL EH EH PA2 JH JH SS SS LL EY PA2 PA3 TT1 SS

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**ALLOPHONE DICTIONARY
DICTIONARY (Continued)**

legislating	LL EH EH PA2 JH JH SS SS LL EY PA2 PA3 TT 2 IH NG	sweat	SS SS WW EH EH PA3 TT2
legislature	LL EH EH PA2 JH JH SS SS LL EY PA2 PA3 CH ER1	sweated	SS SS WW EH EH PA3 TT2 IH PA3 DD1
letter	LL EH EH PA3 TT2 ER1	sweater	SS SS WW EH EH PA3 TT2 ER1
litter	LL IH IH PA3 TT2 ER1	sweaters	SS SS WW EH EH PA3 TT2 ER1 ZZ
little	LL IH IH PA3 TT2 EL	sweating	SS SS WW EH EH PA3 TT2 IH NG
memory	MM EH EH MM ER2 IY	sweats	SS SS WH IH IH PA3 TT2 SS
memories	MM EH EH MM ER2 IY ZZ	switch	SS SS WH IH IH PA3 CH
minute	MM IH NN1 IH PA3 TT2	switched	SS SS WH IH IH PA3 CH PA3 TT2
month	MM AX NN1 TH	switches	SS SS WH IH IH PA3 CH IH ZZ2
nip	NN1 IH IH PA2 PA3 PP	switching	SS SS WH IH IH PA3 CH IH NG2
nipped	NN2 IH IH PA2 PA3 PP PA3 TT2	system	SS SS IH IH SS SS PA3 TT2 EH MM
nipping	NN1 IH IH PA2 PA3 PP IH NG	systems	SS SS IH IH SS SS PA3 TT2 EH MM ZZ
nips	NN1 IH IH PA2 PA3 PP SS	talk	TT2 AO AO PA2 KK2
no	NN2 AX OW	talked	TT2 AO AO PA3 KK2 PA3 TT2
physical	FF FF IH ZZ IH PA3 KK1 AX EL	talker	TT2 AO AO PA3 KK1 ER1
pin	PP IH IH NN1	talkers	TT2 AO AO PA3 KK1 ER1 ZZ
pinned	PP IH IH NN1 PA2 DD1	talking	TT2 AO AO PA3 KK1 IH NG
pinning	PP IH IH NN1 IH NG1	talks	TT2 AO AO PA2 KK2 SS
pins	PP IH IH NN1 ZZ	thread	TH RR1 EH EH PA2 DD1
pledge	PP LL EH FH PA3 JH	threaded	TH RR1 EH EH PA2 DD2 IH PA2 DD1
pledged	PP LL EH EH PA3 JH PA2 DD1	threader	TH RR1 EH EH PA2 DD2 ER1
pledges	PP LL EH EH PA3 JH IH ZZ	threaders	TH RR1 EH EH PA2 DD2 ER1 ZZ
pledging	PP LL EH EH PA3 JH IH NG	threading	TH RR1 EH EH PA2 DD2 IH NG
plus	PP LL AX AX SS SS	threads	TH RR1 EH EH PA2 DD2 ZZ
ray	RR1 EH EY	then	DH1 EH EH NN1
rays	RR1 EH EY ZZ	time	TT2 AA AY MM
ready	RR1 EH EH PA1 DD2 IY	times	TT2 AA AY MM ZZ
red	RR1 EH FH PA1 DD1	uncle	AX NG PA3 KK3 EL
robot	RR1 OW PA2 BB2 AA PA3 TT2	whale	WW EY EL
robots	RR1 OW PA2 BB2 AA PA3 TT1 SS	whaler	WW EY LL ER1
score	SS SS PA3 KK3 OR	whalers	WW EY LL ER1 ZZ
second	SS SS EH PA3 KK1 IH NN1 PA2 DD1	whales	WW EY EL ZZ
sensitive	SS SS EH EH NN1 SS SS IH PA2 PA3 TT2 IH VV	whaling	WW EY LL TH NG
sensitivity	SS SS EH EH NN1 SS SS IH PA2 PA3 TT2 IH VV IH PA2 PA3 TT2 IY	year	YY2 YR
sincere	SS SS IH IH NN1 SS SS YR	yes	YY5 EH EH SS SS
sincerely	SS SS IH IH NN1 SS SS YR LL IY		
sincerity	SS SS IH IH NN1 SS SS EH EH RR1 IH PA2 PA3 TT2 IY		
sister	SS SS IH IH SS PA3 TT2 ER1		
speak	SS SS PA3 IY PA3 KK2		
spell	SS SS PA3 PP EH EH EL		
spelled	SS SS PA3 PP EH EH EL PA3 DD1		
speller	SS SS PA3 PP EH EH EL ER2		
spellers	SS SS PA3 PP EH EH EL ER2 ZZ		
spelling	SS SS PA3 PP EH EH EL IH NG		
spells	SS SS PA3 PP EH EH EL ZZ		
start	SS SS PA3 TT2 AR PA3 TT2		
started	SS SS PA3 TT2 AR PA3 TT2 IH PA1 DD2		
starter	SS SS PA3 TT2 AR PA3 TT2 ER1		
starting	SS SS PP3 TT2 AR PA3 TT2 IH NG		
starts	SS SS PP3 TT2 AR PA3 TT1 SS		
stop	SS SS PA3 TT1 AA AA PA3 PP		
stopped	SS SS PA3 TT1 AA AA PA3 PP PA3 TT2		
stopper	SS SS PA3 TT1 AA AA PA3 PP ER1		
stopping	SS SS PA3 TT1 AA AA PA3 PP IH NG		
stops	SS SS PA3 TT1 AA AA PA3 PP SS		
subject (noun)	SS SS AX AX PA2 BB1 PA2 JH EH PA3 KK2 PA3 TT2		
subject (verb)	SS SS AX PA2 BB1 PA2 JH EH EH PA3 KK2 PA3 TT2		

TABLE 2—EXAMPLES OF SPELLING IRREGULARITIES

	Same sound represented by different letters	Different sounds represented by the same letters
Vowels	m <u>E</u> At f <u>E</u> Ei p <u>E</u> te p <u>E</u> Ople penn <u>Y</u>	v <u>E</u> ln for <u>E</u> ign d <u>E</u> ism d <u>E</u> Icer g <u>E</u> Isha
Consonants	<u>S</u> Hip ten <u>S</u> ion pre <u>C</u> ious na <u>T</u> ion	althou <u>G</u> H <u>G</u> Hastly cou <u>G</u> H hicc <u>o</u> <u>G</u> H

TABLE 3—CONSONANT PHONEMES OF ENGLISH

		LABIAL	LABIO-DENTAL	INTER-DENTAL	ALVEOLAR	PALATAL	VELAR	GLOTTAL
Stops:	Voiceless Voiced	PP BB			TT DD		KK GG	
Fricatives:	Voiceless Voiced	WH	FF VV	TH DH	SS ZZ	SH ZH*		HH
Affricates:	Voiceless Voiced					CH JH		
Nasals	Voiced	MM			NN		NG*	
Resonants	Voiced	WW			RR,LL	YY		

These do not occur in word-initial position in English.

- Labial: Upper and Lower Lips Touch or Approximate
- Labio-Dental: Upper Teeth and Lower Lip Touch
- Inter-Dental: Tongue Between Teeth
- Alveolar: Tip of Tongue Touches or Approximates Alveolar Ridge (just behind upper teeth)
- Palatal: Body of Tongue Approximates Palate (roof of mouth)
- Velar: Body of Tongue Touches Velum (posterior portion of roof of mouth)
- Glottal: Glottis (opening between vocal cords)

TABLE 4—VOWEL PHONEMES OF ENGLISH

	FRONT	CENTRAL	BACK
High	YR IY IH*		UW# UH*#
Mid	EY EH* XR	ER AX*	OW# OY#
Low	AE*	AW# AY AR AA*	AO*# OR#

*SHORT VOWELS
#ROUNDED VOWELS

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TABLE 5—GUIDELINES FOR USING THE ALLOPHONES

Silence

- PA1 (10 ms) —before BB, DD, GG and JH
- PA2 (30 ms) —before BB, DD, GG, and JH
- PA3 (50 ms) —before PP, TT, KK, and CH, and between words
- PA4 (100 ms) —between clauses and sentences
- PA5 (200 ms) —between clauses and sentences

Short Vowels

- */IH/ —sitting, stranded
- */EH/ —extent, gentlemen
- */AE/ —extract, acting
- */UH/ —cookie, full
- */AO/ —talking, song
- */AX/ —lapel, instruct
- */AA/ —pottery, cotton

Long Vowels

- /IY/ —treat, people, penny
- /EY/ —great, statment, tray
- /AY/ —Kite, sky, mighty
- /OY/ —noise, toy, voice
- /UW1/ —after clusters with YY; computer
- /UW2/ —in monosyllabic words: two, food
- /OW/ —zone, close, snow
- /AW/ —sound, mouse, down
- /EL/ —little, angle, gentlemen

R-Colored Vowels

- /ER1/ —letter, furniture, interrupt
- /ER2/ —monosyllables: bird, fern, burn
- /OR/ —fortune, adorn, store
- /AR/ —farm, alarm, garment
- /YR/ —hear, earring, irresponsible
- /XR/ —hair, declare, stare

Resonants

- /WW/ —we, warrant, linguist
- /RR1/ —initial position: read, write, x-ray
- /RR2/ —initial clusters: brown, crane, grease
- /LL/ —like, hello, steel
- /YY1/ —clusters: cute, beauty, yarn, yo-yo
- /YY2/ —initial position: yes, yarn, yo-yo

Voiced Fricatives

- /VV/ —vest, prove, even
- /DH1/ —word-initial position: this, then, they
- /DH2/ —word-final and between vowels: bathe, bathing
- /ZZ/ —zoo, phase
- /ZH/ —beige, pleasure

Voiceless Fricatives

- */FF/ —) These may be doubled for initial position and used singly in final position
- */TH/ —)
- */SS/ —)
- /SH/ —shirt, leash, nation
- /HH1/ —before front vowels, RY, IY, IH, EY, EH, XR, AE
- /HH2/ —before back vowels: UW, UH, OW, OY, AO, OR, AR
- /WH/ —white, whim, twenty

Voiced Stops

- /BB1/ —final position: rib; between vowels: fiber;
- in clusters: bleed, brown
- /BB2/ —initial position before a vowel: beast
- /DD1/ —final position: played, end
- /DD2/ —initial position: drain
- /GG1/ —before high front vowels: YR, IY, IH, EY, EH, XR
- /GG2/ —before high back vowels: UW, UH, OW, OY, AX; and
- clusters: green, glue
- /GG3/ —before low vowels: AE, AW, AY, AR, AA, AO, OR, ER; and
- medial clusters: anger; and final position: peg

Voiceless Stops

- /PP/ —pleasure, ample, trip
- /TT1/ —final clusters before SS: tests, its
- /TT2/ —all other positions: test, street
- /KK1/ —before front vowels: YR, IY, IH, EY, EH, XR, AY, AE, ER, AX;
- initial clusters: cute, clown, scream
- /KK2/ —final position: speak; final clusters: task
- /KK3/ —before back vowels: UW, UH, OW, OY, OR, AR, AQ;
- initial clusters: crane, quick, clown, scream

Affricates

- /CH/ —church, feature
- /JH/ —judge, injure

Nasal

- /MM/ —milk, alarm, ample
- /NN1/ —before front and central vowels: YR, IY, IH, EY, EH, XR, AE, ER, AX, AW, AY, UW; final clusters: earn
- before back vowels: UH, OW, OY, CR, AR, AA
- /NN2/
- /NG/ —string, anger

*These allophones can be doubled.

TABLE 6—ALLOPHONE ADDRESS TABLE

OCTAL ADDRESS	DECIMAL ADDRESS	ALLOPHONE	SAMPLE WORD	DURATION
000	000	PA1	PAUSE	10MS
001	001	PA2	PAUSE	30MS
002	002	PA3	PAUSE	50MS
003	003	PA4	PAUSE	100MS
004	004	PA5	PAUSE	200MS
005	005	/OY/	Boy	420MS
006	006	/AY/	Sky	260MS
007	007	/EH/	End	70MS
010	008	/KK3/	Comb	120MS
011	009	/PP/	Pow	210MS
012	010	/JH/	Dodge	140MS
013	011	/NN1/	Thin	140MS
014	012	/IH/	Sit	70MS
015	013	/TT2/	to	140MS
016	014	/RR1/	Rural	170MS
017	015	/AX/	Succeed	70MS
020	016	/MM/	Milk	180MS
021	017	/TT1/	Part	100MS
022	018	/DH1/	They	290MS
023	019	/IY/	See	250MS
024	020	/EY/	Beige	280MS
025	021	/DD1/	Could	70MS
026	022	/UW1/	To	100MS
027	023	/AO/	Aught	100MS
030	024	/AA/	Hot	100MS
031	025	/YY2/	Yes	180MS
032	026	/AE/	Hat	120MS
033	027	/HH1/	He	130MS
034	028	/BB1	Business	80MS
035	029	/TH/	Thin	180MS
036	030	/UH/	Book	100MS
037	031	/UW2/	Food	260MS
040	032	/AW/	Out	370MS
041	033	/DD2/	Do	160MS
042	034	/GG3/	Wig	140MS
043	035	/VV/	Vest	190MS
044	036	/GG1/	Got	80MS
045	037	/SH/	Ship	160MS
046	038	/ZH/	Azure	190MS
047	039	/RR2/	Brain	120MS
050	040	/FF/	Food	150MS
051	041	/KK2/	Sky	190MS
052	042	/KK1/	Can't	160MS
053	043	/ZZ/	Zoo	210MS
054	044	/NG/	Anchor	220MS
055	045	/LL/	Lake	110MS
056	046	/WW/	Wool	180MS
057	047	/XR/	Repair	360MS
060	048	/WH/	Whig	200MS
061	049	/YY1/	yes	130MS
062	050	/CH/	Church	190MS
063	051	/ER1/	Fir	160MS
064	052	/ER2/	Fir	300MS
065	053	/OW/	Beau	240MS
066	054	/DH2/	They	240MS
067	055	/SS/	Vest	90MS
070	056	/NN2/	No	190MS
071	057	/HH2/	Hoe	180MS
072	058	/OR/	Store	330MS
073	059	/AR/	Alarm	290MS
074	060	/YR/	Clear	350MS
075	061	/CG2/	Guest	40MS
076	062	/EL/	Saddle	190MS
077	063	/BB2/	Business	50MS

N-CHANNEL ION IMPLANT (SOUND GENERATOR)

AY-3-8910A

276-1787

PROGRAMMABLE SOUND GENERATOR

GENERAL DESCRIPTION

The AY-3-8910A Programmable Sound Generator (PSG) is an LSI circuit which can produce a wide variety of complex sounds under software control. The AY-3-8910A is manufactured in the Microelectronics N-Channel Ion Implant Process. Operation requires a single +5V power supply, a TTL compatible clock, and a microprocessor controller.

The PSG is easily interfaced to any bus-oriented system. Its flexibility makes it useful in applications such as music synthesis, sound effects generation, audible alarms, tone signaling, and home computer usage. In order to generate sound effects while allowing the processor to perform other tasks, the PSG can continue to produce sound after the initial commands have been given by the control processor. The fact that realistic sound production often involves more than one component is satisfied by the three independently controllable analog sound-output channels available in the PSG. These analog sound-output channels can each provide 4 bits of logarithmic digital-to-analog conversion, greatly enhancing the dynamic range of the sounds produced.

All circuit control signals are digital in nature and may be provided directly by a microprocessor/microcomputer. Therefore, one PSG can produce the full range of required sounds with no change in external circuitry. Since the frequency response of the PSG ranges from sub-audible at its lowest frequency to post-audible at its highest frequency, there are few sounds which are beyond reproduction.

FEATURES

- Full software control of sound generation
- Interfaces to most 8-bit and 16-bit microprocessors
- Three independently programmable analog outputs
- One or two 8-bit I/O ports
- Full 0° to 70°C operation

ABSOLUTE MAXIMUM RATING

V_{CC} and all other Input/Output

Voltages with Respect to V_{SS} - 0.3V to + 8.0V

Storage Temperature - 55°C to + 150°C

Operating Temperature 0°C to + 70°C

PIN FUNCTIONS

DA7-DA0 (Input/Output/High Impedance)

Data/Address Bits 7-0: Pins 30-37

These 8 lines comprise the 8-bit bidirectional bus used by the microprocessor to send both data and addresses to the PSG, and to receive data from the PSG. In the address mode, DA3-DA0 select the internal register address (0-17_h) and DA7-DA4 in conjunction with address inputs $\overline{A9}$ and $\overline{A8}$, form the chip select function. When the high order address bits are "incorrect," the bidirectional buffers are forced to a high impedance state.

Address 9, Address 8

$\overline{A8}$ (input): Pin 25

$\overline{A9}$ (input): Pin 24

High order address bits $\overline{A9}$ and $\overline{A8}$ are fixed to recognize a "01" code. They may be left unconnected, as each is provided with either an on-chip pull-down ($\overline{A9}$) or pull-up ($\overline{A8}$) resistor. In noisy environments, however, it is recommended the $\overline{A9}$ and $\overline{A8}$ be tied to external ground and +5V respectively, if they are not to be used.

RESET (Input): Pin 23

For initialization/power-on purposes, applying a low level input to the RESET pin will reset all registers to 0_h. The RESET pin is provided with an on-chip pull-up resistor.

CLOCK (Input): Pin 22

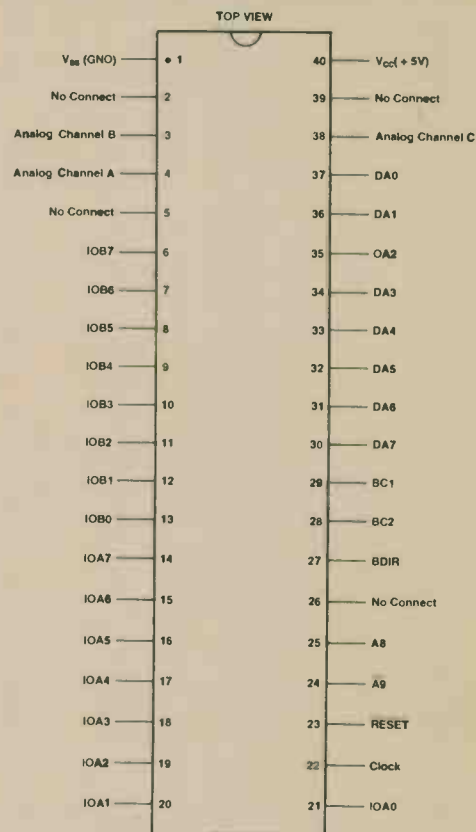
This TTL compatible input supplies the timing reference for the Tone, Noise, and Envelope Generators.

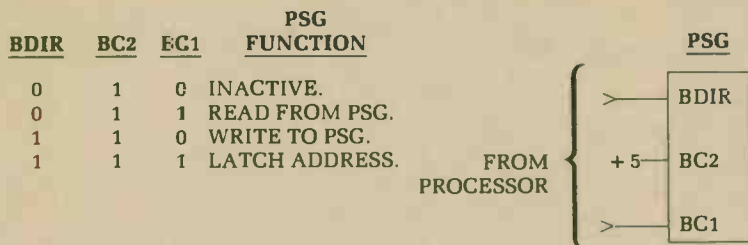
BDIR, BC2, BC1 (Inputs): Pins 27, 28, 29

BUS Direction, BUS Control 2, Bus Control 1

These bus control signals are generated directly by a microprocessor to control all bus operations internal and external to the PSG.

PIN CONNECTION





Analog Channel A, B, C (Outputs): Pins 4, 3, 38

Each of these signals is the output of its corresponding digital to analog converter, and provides 1V peak-peak (max) signal representing the complex sound waveshape generated by the PSG.

Pins 2, 5, 26, 39

These pins are for test purposes only and should be left open. Do not use as tie-points.

V_{CC}: Pin 40

Nominal + 5 Volt power supply to the PSG.

V_{SS}: Pin 1

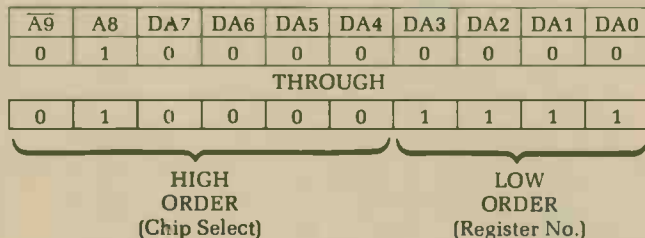
Ground reference for the PSG.

ARCHITECTURE:

The AY-3-8910A is a register oriented Programmable Sound Generator (PSG). Communication between the processor and the PSG is based on the concept of memory-mapped I/O. Control commands are issued to the PSG by writing to 16 memory-mapped registers. Each of the 16 registers within the PSG is also readable so that the microprocessor can determine, if necessary, present states or stored data values. All functions of the PSG are controlled through the 16 registers which, once programmed, generate and sustain the sounds, thus freeing the system processor for other tasks.

REGISTER ARRAY:

The principal element of the PSG is the array of 16 read/write control registers. These 16 registers look to the CPU as a block of memory and, as such, occupy a 16-word block out of 1,024 possible addresses. The 10 address bits (8 bits on the common data/address bus, and 2 separate address bits) are decoded as follows:



The four low order address bits select one of the 16 registers (R0-R15). The six high order address bits function as chip selects to control the tri-state bidirectional buffers (when the high order address bits are incorrect, the bidirectional buffers are forced to a high impedance state). High order address bits A9, A8 are fixed in the PSG design to recognize a "01" code, high order address bits DA7-DA4 are programmed to recognize only a "0000" code. All addresses are latched internally. This internally latched address is updated and modified on every latch address signal presented to the PSG via the BDIR, BC2, and BC1 inputs. A latched address will remain valid until the receipt of a new address, enabling multiple reads and writes of the same register contents without the need for redundant re-addressing.

Conditioning of the Register Address Latch/Decoder and the Bidirectional Buffers to recognize the bus function required (Inactive, Latch Address, Write Data), is accomplished by the Bus Control Decode block.

N-CHANNEL ION IMPLANT (SOUND GENERATOR)

AY-3-8910A 276-1787

SOUND GENERATING BLOCKS:

The basic blocks in the PSG which produce the programmed sounds include:

Tone Generators	Produce the basic square wave tone frequencies for each channel (A, B, C).
Noise Generator	Produces a pulse width modulated pseudo-random square wave output.
Mixers	Combine the outputs of the Tone Generators and the Noise Generator; per channel (A, B, C).
Envelope Generator	Produces an envelope pattern which can be used to amplitude modulate the output of each Mixer.
Amplitude Control	Provides the D/A Converters with either a fixed or variable amplitude pattern. Fixed amplitude is under direct CPU control. Variable amplitude is accomplished via the output of the Envelope Generator.
D/A Converters	The three D/A Converters each produce a 16 level (max) output signal as determined by the Amplitude Control.

OPERATION

Since all PSG functions are processor controlled by writing to the internal registers, a detailed description of the PSG operation may best be accomplished by relating each PSG function to control of the corresponding register. The function of creating or programming a specific sound effect logically follows the control sequence listed:

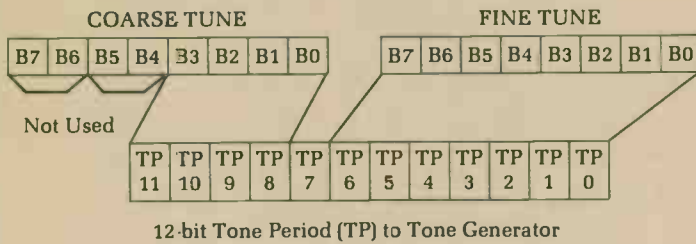
<u>Operation</u>	<u>Registers</u>	<u>Function</u>
Tone Generator Control	R0-R5	Program tone periods
Noise Generator Control	R6	Program noise period
Mixer Control	R7	Enable tone and/or noise on selected channels
Amplitude Control	R10-R12	Select fixed or variable (envelope) amplitudes
Envelope Generator Control	R13-R15	Program envelope period and select envelope pattern

Tone Generator Control

(Registers R0, R1, R2, R3, R4, R5)

The frequency of each square wave generated by the three Tone Generators (one each for Channels A, B, and C) is obtained by first dividing the input clock by 16 then by further dividing the result by the programmed 12-bit Tone Period value. Each 12-bit tone period value is obtained by combining the contents of the respective Coarse and Fine Tune registers, as illustrated:

Coarse Tune Register	Channel	Fine Tune Register
R1	A	R0
R3	B	R2
R5	C	R4



The period of the output of the tone generator is therefore determined by:

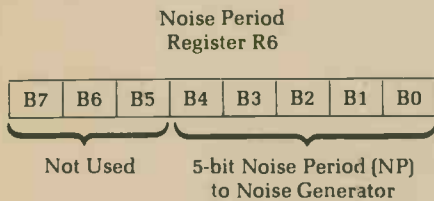
$$16 \times TP \times P \text{ where } P = \text{the period of the input clock.}$$

NOTE: If the Coarse and Fine Tune registers are both set to 000₈, the resulting period will be minimum, i.e., the generated tone period will be as if the Coarse Tune register was set to 000₈ and the Fine Tune register set to 001₈.

Noise Generator Control

(Register R6)

The frequency of the noise source is obtained by dividing the input clock by 16, then by further dividing the result by the programmed 5-bit Noise Period value. This 5-bit value consists of the lower 5 bits (B4-B0) of register R6, as illustrated:



Mixer Control—I/O Enable

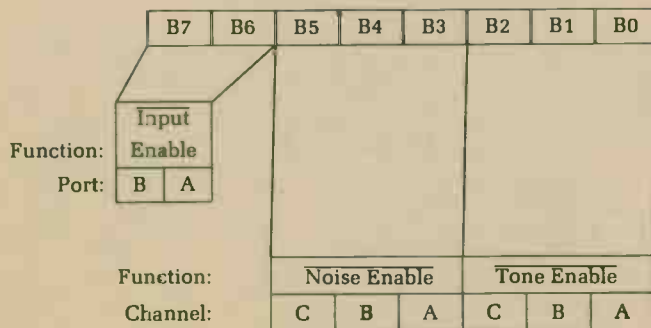
(Register R7)

Register R7 is a multi-function ENABLE register which controls the three Noise/Tone Mixers.

The Mixers, previously described, combine the noise and tone frequencies for each of the three channels. The determination of combining neither/either/both noise and tone frequencies on each channel is made by the state of bits B5-B0 of register R7, as illustrated.

The direction (input or output) of the general purpose I/O ports (I/OA and I/OB) is determined by the state of bits B7 and B6 of R7, as illustrated.

MIXER CONTROL REGISTER—R7



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NOISE ENABLE TRUTH TABLE

R7 Bits			Noise Enabled on Channel		
B5	B4	B2	C	B	A
0	0	0	C	B	A
0	0	1	C	B	—
0	1	0	C	—	A
0	1	1	C	—	—
1	0	0	—	B	A
1	0	1	—	B	—
1	1	0	—	—	A
1	1	1	—	—	—

TONE ENABLE TRUTH TABLE

R7 Bits			Tone Enabled on Channel		
B2	B1	B0	C	B	A
0	0	0	C	B	A
0	0	1	C	B	—
0	1	0	C	—	A
0	1	1	C	—	—
1	0	0	—	B	A
1	0	1	—	B	—
1	1	0	—	—	A
1	1	1	—	—	—

I/O PORT TRUTH TABLE

R7 Bits		I/O Port Status	
B7	B6	I/OB	I/OA
0	0	Input	Input
0	1	Input	Output
1	0	Output	Input
1	1	Output	Output

NOTE: Disabling noise and tone does not turn off a channel. Turning a channel off can only be accomplished by writing all zeros into the corresponding Amplitude Control Register.

Amplitude Control

(Registers R10, R11, R12)

The amplitude of the signals generated by each of the three D/A Converters (one each for Channels A, B, and C) is determined by the content of the lower bits (B4–B0) of registers R10, R11, and R12 as illustrated.

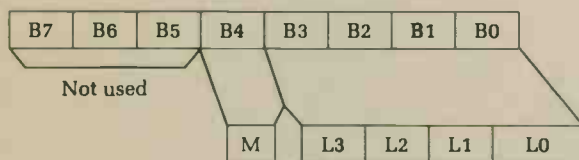
These five bits consists of a 1-bit mode select ("M" bit) and a 4-bit "fixed" amplitude level (L3–L0). When the M bit is low, the output level of the analog channel is defined by the 4-bit "fixed" amplitude level of the Amplitude Control Register. This amplitude level is fixed in the sense that the amplitude level is under direct control of the system processor. When the M bit is high, the output level of the analog channel is defined by the 4-bits of the Envelope Generator (bits E3–E0). The amplitude mode bit can also be thought of as an "envelope enable" bit.

Amplitude Control Register

R10
R11
R12

Channel

A
B
C



Amplitude Mode	4 bit fixed Amplitude Level				
0	0	0	0	0	Amplitude Defined By L0-L3
,	,	,	,	,	
,	,	,	,	,	
0	1	1	1	1	Amplitude Defined By E0-E3
1	X	X	X	X	

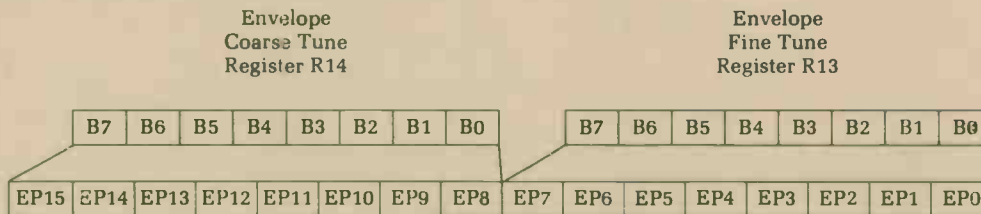
Envelope Generator Control

To accomplish the generation of complex envelope patterns, two independent methods of control are provided: first, it is possible to vary the frequency of the envelope using registers R13 and R14; second, the relative shape and cycle pattern of the envelope can be varied using register R15. The following paragraphs explain the details of the envelope control functions, describing first the envelope period control and then the envelope shape/cycle control. (See Figures 1 and 2).

Envelope Period Control

(Registers R13, R14)

The frequency of the envelope is obtained by first dividing the input clock by 256, then by further dividing the result by the programmed 16-bit Envelope Period value. This 16-bit value is obtained by combining the contents of the Envelope Coarse and Fine Tune registers, as illustrated:



16-bit Envelope Period (EP) to Envelope Generator
 Thus the envelope period is given by:
 $256 \times EP \times P$ Where P = period of input clock

NOTE: If the Coarse and Fine Tune registers are both set to 000₈, the resulting period will be minimum, i.e., the generated tone period will be as if the Coarse Tune register was set to 000₈ and the Fine Tune register set to 001₈.

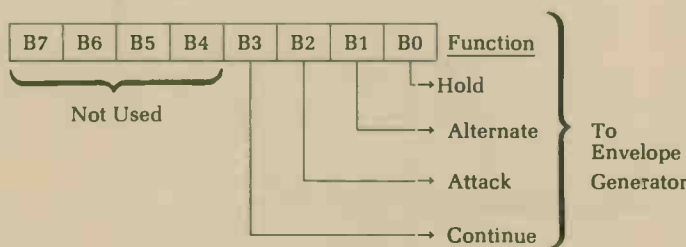
Envelope Shape/Cycle Control

(Register R15)

The Envelope Generator further divides the envelope period by 16, producing a 16-state per cycle envelope pattern as defined by the 4-bit counter output, E3, E2, E1 and E0. The particular shape and cycle pattern of any desired envelope is accomplished by controlling the count pattern of the 4-bit counter. (See Figures 4 and 5).

This envelope shape/cycle control is contained in the lower 4 bits (B3-B0) of register R15. Each of these 4 bits controls a function in the envelope generator, as illustrated:

Envelope Shape/Cycle Control Register (R15)



- Bit 0: HOLD When this is set high (logic 1) the envelope is limited to one cycle, the value of the envelope at the end of the cycle being held.
- Bit 1: ALTERNATE When set high (logic 1) the envelope counter reverses direction at end of each cycle (i.e. performs as an up/down counter).
- Bit 2: ATTACK When set high (logic 1) the envelope counter will count up (attack). When set low (logic 0) the counter will count down (decay).
- Bit 3: CONTINUE When set high (logic 1) the cycle pattern will be defined by the HOLD bit. When set low (logic 0) the envelope counter will reset to 0000 after one cycle, and hold that value.

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D/A CONVERTER OPERATION

Since the primary use of the PSG is to produce sound for the non-linear amplitude detection mechanism of the human ear, the D/A conversion is performed in logarithmic steps with a normalized voltage range from 0 to 1 volt. The specific amplitude control of each of the three D/A Converters is accomplished by the three sets of 4 bit outputs of the Amplitude Control block, while the Mixer outputs provide the base signal frequency (Noise and/or Tone). (See Fig. 3).

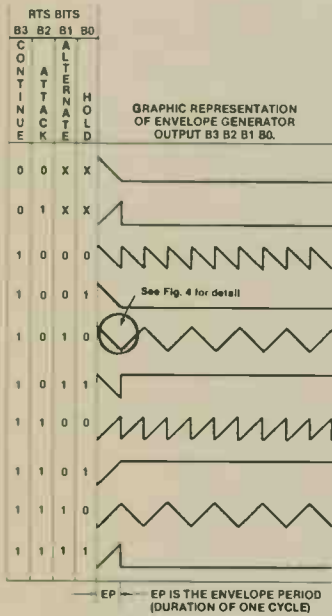


Fig. 1 Envelope Shape/Cycle Operation

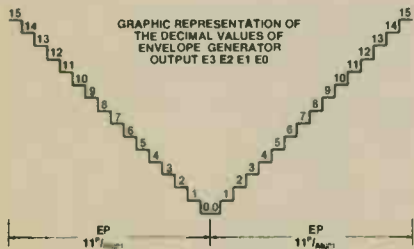


Fig. 2 Detail of Two Cycles of Fig. 1 (Ref. Waveform "1010" in Fig. 1)

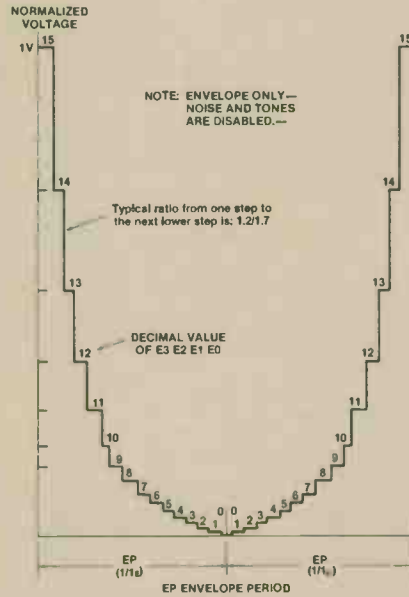


Fig. 3 D/A Converter Output

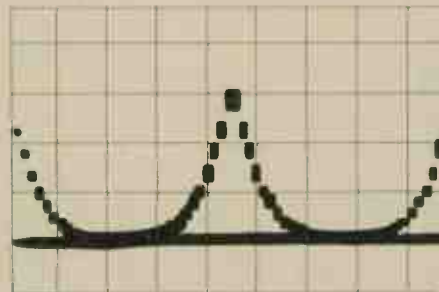


Fig. 4 Singletone With Envelope Shape/Cycle Pattern 1010

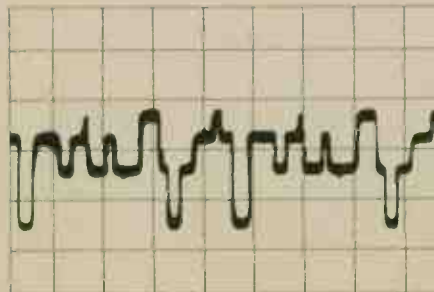
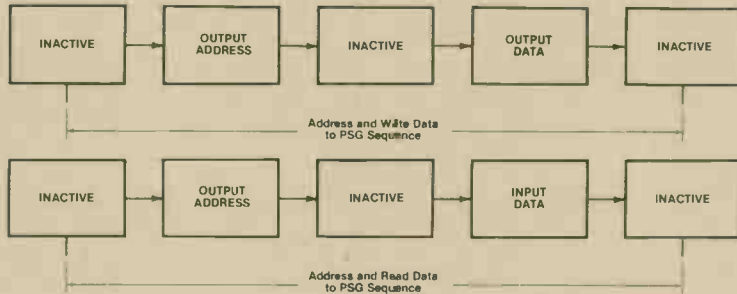


Fig. 5 Mixture of Three Tones With Fixed Amplitudes

STATE TIMING

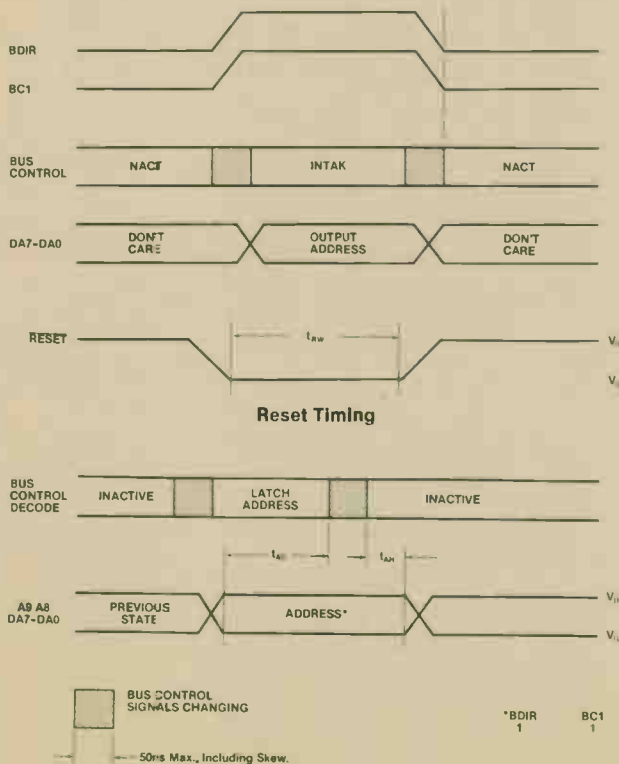
While the state flow for many microprocessors can be somewhat involved for certain operations, the sequence of events necessary to control the PSG is simple and straightforward. Each of the three major state sequences (Latch Address, Write to PSG, and Read from PSG) consists of several operations (indicated below by rectangular blocks), defined by the pattern of bus control signals (BDIR, BC1).



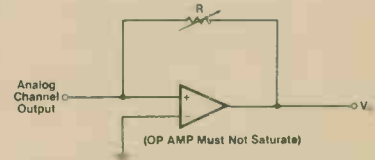
The functional operation and relative timing of the PSG control sequences are described in the following paragraphs.

ADDRESS PSG REGISTER SEQUENCE

The Latch Address sequence is normally an integral part of the write or read sequences, but for simplicity is illustrated here as in individual sequence. Depending upon the processor used, the program sequence will normally require four principal microstates: (1) send NACT (inactive); (2) send INTAK (latch address); (3) put address on bus; (4) send NACT (inactive).



Latch Address Timing



Analog Channel Output Test Circuit

N-CHANNEL ION IMPLANT (SOUND GENERATOR)

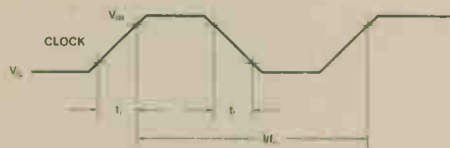
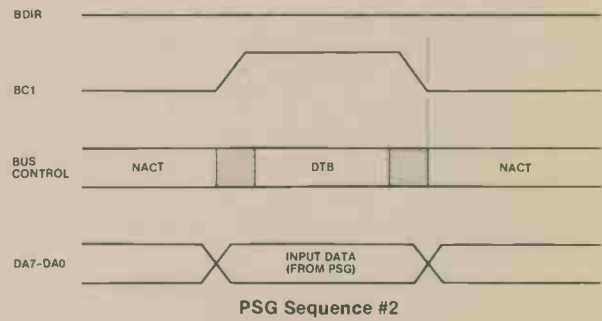
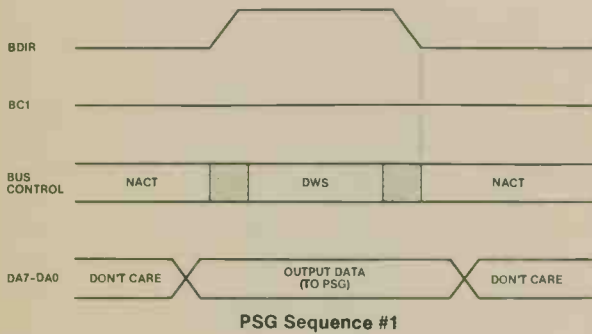
AY-3-8910A 276-1787

WRITE DATA TO PSG SEQUENCE #1

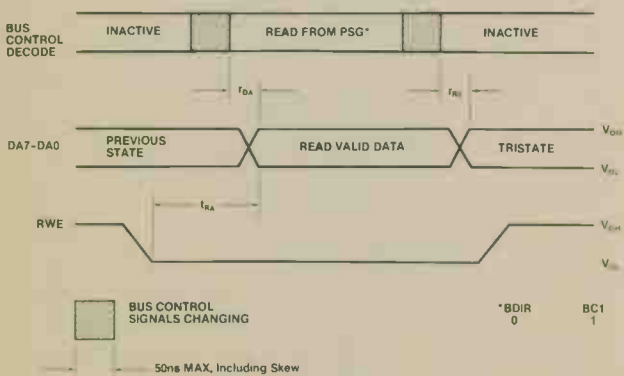
The Write to PSG sequence, which would normally follow immediately after an address sequence, requires four principal microstates: (1) send NACT (inactive); (2) put data on bus; (3) send DWS (write to PSG); (4) send NACT (inactive).

READ DATA FROM PSG SEQUENCE #2

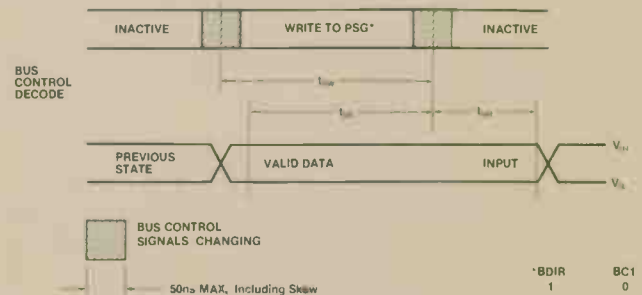
As with the Write to PSG sequence, the Read from PSG sequence would also normally follow immediately after an address sequence. The four principal microstates of the read sequence are: (1) send NACT (inactive); (2) send DTB (read from PSG); (3) read data on bus; (4) send NACT (inactive).



Clock and Bus Signal Timing



Read Data Timing



Write Data Timing

FM RECEIVER

TDA7000
276-1304



GENERAL DESCRIPTION

The TDA7000 is a monolithic integrated circuit for mono FM portable radios, where a minimum on peripheral components is important (small dimensions and low costs).

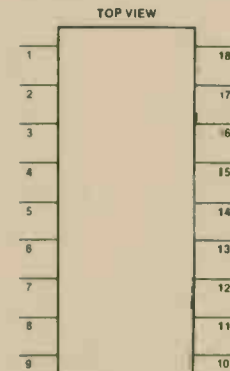
The IC has an FLL (Frequency-Locked-Loop) system with an intermediate frequency of 70 kHz. The i.f. selectivity is obtained by active RC filters. The only function which needs alignment is the resonant circuit for the oscillator, thus selecting the reception frequency. Spurious reception is avoided by means of a mute circuit, which also eliminates too noisy input signals. Special precautions are taken to meet the radiation requirements.

The TDA7000 includes the R.F. input stage, mixer, local oscillator, I.F. amplifier/limiter, phase demodulator, mute detector and mute switch.

ABSOLUTE MAXIMUM RATINGS

- Supply voltage range (pin 5) (V_p) 12 V
- Supply current at $V_p = 4.5$ V (IP) 8 mA
- Power (See power derating curve)
- R.F. input frequency range (f_{rf}) 1.5 to 110 MHz
- Sensitivity for -3 dB limiting (e.m.f. voltage) (source impedance: 75 Ω ; mute disabled) 1.5 μ V
- Signal handling (e.m.f. voltage) (source impedance: 75 Ω) 200 mV
- A.F. output voltage at $R_L = 22k\Omega$ 75 mV

PIN CONNECTION



PIN	FUNCTION
1	Muting Capacitor
2	Audio frequency output
3	Noise source
4	Loop filter capacitor
5	Supply voltage
6	VCO
7	1st integrator capacitor*
8	2nd integrator capacitor
9	1st integrator capacitor*
10	IF filter capacitor (to pin 11)
11	IF filter capacitor
12	IF limiter capacitor
13	RF input
14	Mixer
15	Current source capacitor
16	Ground
17	Demodulator capacitor
18	Correlator capacitor

*Connects between Pins 7 and 9.

TYPICAL APPLICATIONS

AUDIO AMPLIFIER AND DETUNING INDICATOR

CIRCUITS

Audio output stages suitable for use with the TDA7000 are shown in Fig. E and F. Figure G shows how the muting signal can be used to operate a LED to give an indication of detuning.

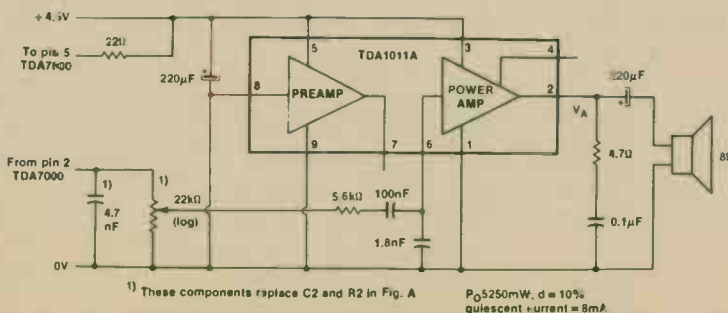


Fig. F An integrated 250mW audio output stage.

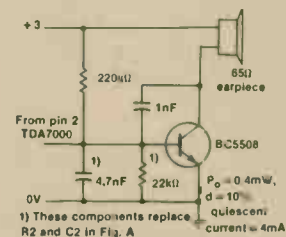


Fig. E A 0.4mW transistor audio output stage without volume control for driving an earpiece.

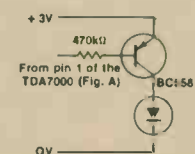


Fig. G A detuning indicator driven by the mute signal from the TDA7000.

TDA7000 276-1304

TYPICAL APPLICATION

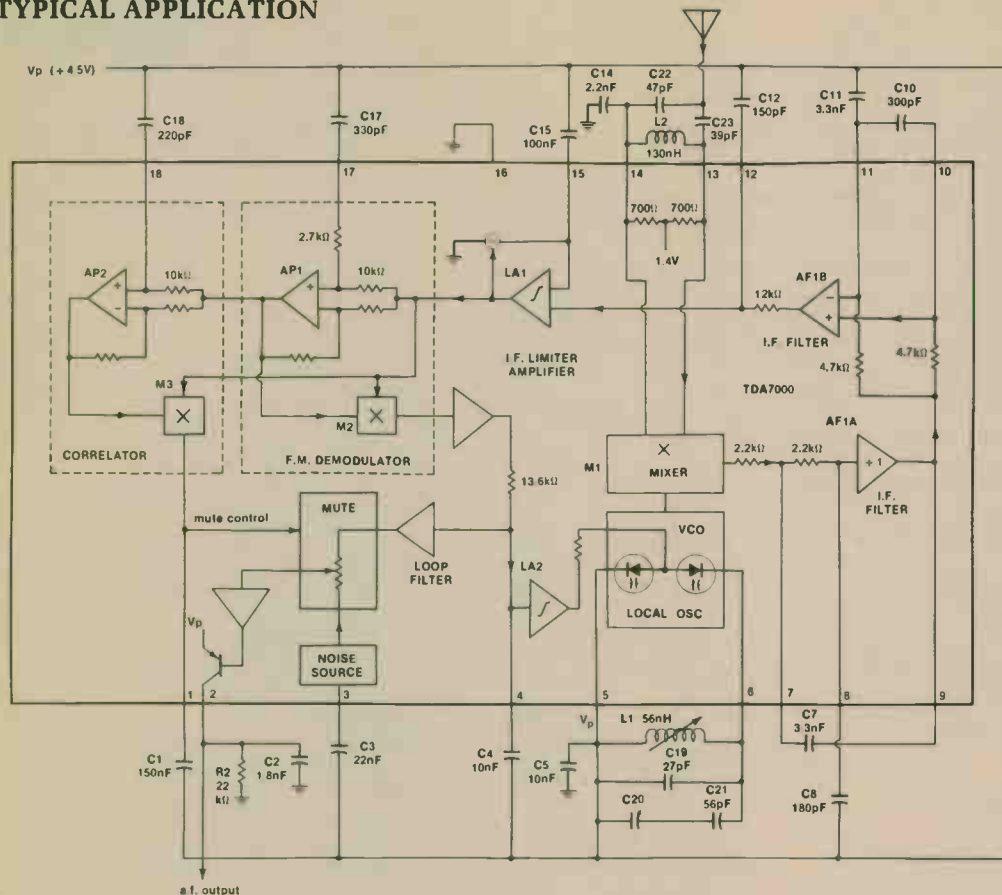


Fig. A The TDA7000 as a variable capacitor tuned f.m. broadcast monitor.

C₇ to C₁₂, C₁₇ and C₁₈:
 Filter and demodulator capacitors. The values shown are for an i.f. of 70 kHz. For other intermediate frequencies, the values of these capacitors must be changed in inverse proportion to the i.f. change.

C₁₄:
 Decouples the reverse r.f. input. It must be connected to the common return via a good quality short connection to ensure a low-impedance path. Inductive or capacitive coupling between C₁₄ and the local-oscillator circuit or i.f. output components must be avoided.

C₁₅:
 Decouples the d.c. feedback for i.f. limiter/amplifier LA1.

C₁₉ and C₂₁:
 Local-oscillator tuning capacitors. Their values depend on the required tuning range and on the value of tuning capacitor C₂₀.

C₂₂, C₂₃, L₁, L₂:
 The values given are for an r.f. bandpass filter with Q = 4 for the European and U.S.A. domestic f.m. broadcast band (87.5 MHz to 108 MHz). For reception of the Japanese f.m. broadcast band (76 MHz to 91 MHz), L₁ must be increased to 78 nH and L₂ must be increased to 150 nH. If stopband attenuation for high level a.m. or tv signals is not required, L₂ and C₂₂ can be omitted and C₂₃ changed to 220 pF.

R₂:
 The load for the audio output current source. It determines the audio output level, but its value must not exceed 22 kΩ for V_p = 4.5 V, or 47 kΩ for V_p = 9 V.

TYPICAL APPLICATIONS

Circuit with variable-capacitance diode tuning

Since it is only necessary to tune the local-oscillator coil, it is very simple to modify the circuit of Fig. A for variable-capacitance diode tuning. The modifications are shown in Fig. B.

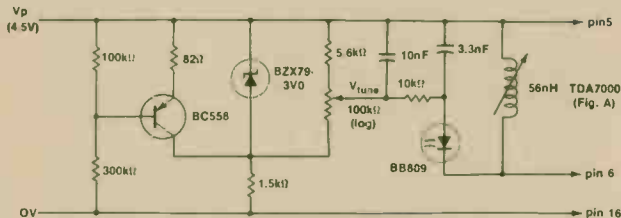


Fig. B Variable-capacitance diode tuning for the local oscillator. Additional measures must be taken to ensure temperature stability.

Narrow-band f.m. receiver

The TDA7000 can also be used for reception of narrow-band f.m. signals. In this case, the local-oscillator is crystal-controlled as shown in Fig. C and there is therefore hardly any compression of the i.f. swing by the FLL. The deviation of the transmitted carrier frequency due to modulation must therefore be limited to prevent severe distortion of the demodulated audio signal.

The component values in Fig. C result in an i.f. of 4.5 kHz and an i.f. bandwidth of 5 kHz (Fig. D). If the i.f. is multiplied by N, the values of capacitors C₁₇ and C₁₈ in the all-pass filters and the values of filter capacitors C₇, C₈, C₁₀, C₁₀, C₁₁, and C₁₂ must be multiplied by 1/N. For improved i.f. selectivity to achieve greater adjacent channel attenuation, second-order networks can be used in place of C₁₀ and C₁₁.

In this circuit the detuning noise generator is not used. Since the circuit is mainly for reception of audio signals, the audio output must be passed through a low-pass Chebyshev filter to suppress i.f. harmonics.

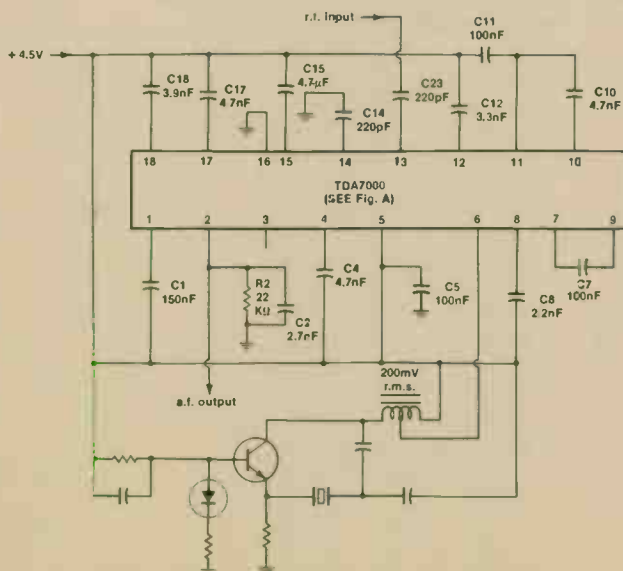


Fig. C A narrow-band f.m. receiver with a crystal-controlled local oscillator.

TDA7000 276-1304

TYPICAL CHARACTERISTICS

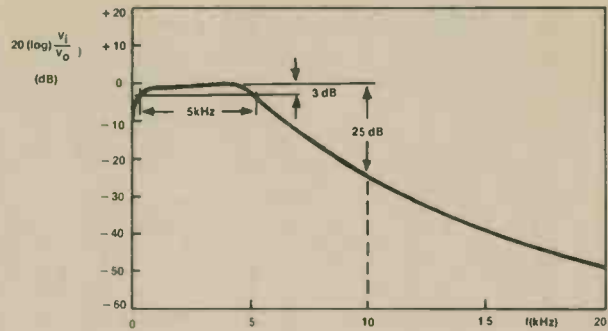
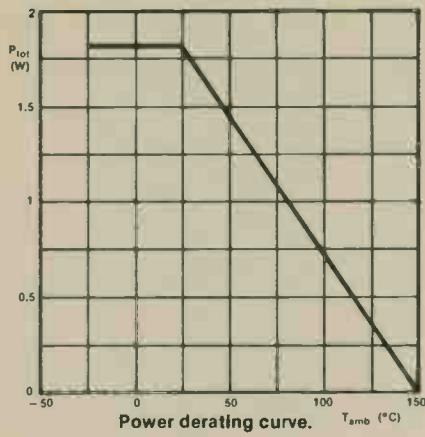


Fig. D I.F. selectivity for the narrow-band f.m. receiver.

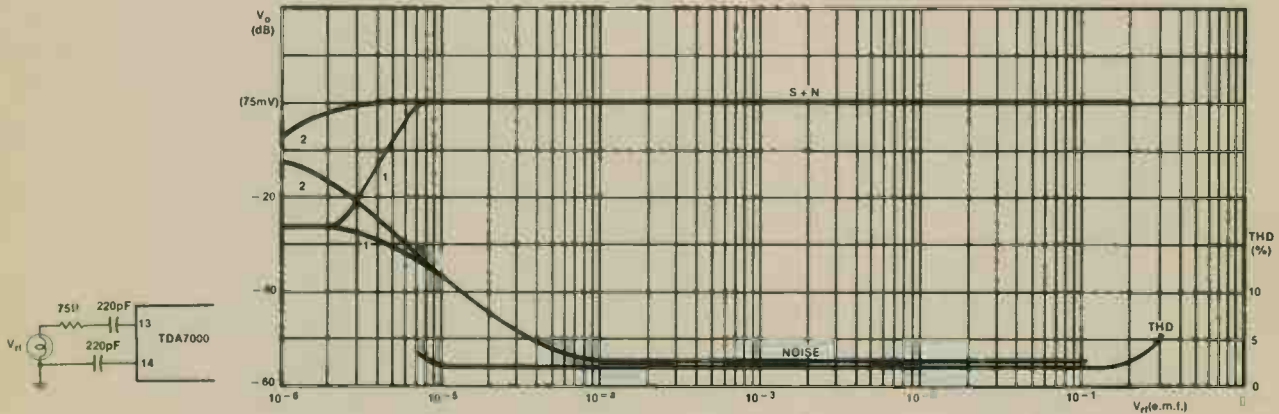
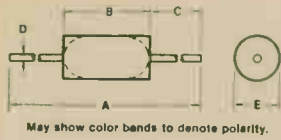


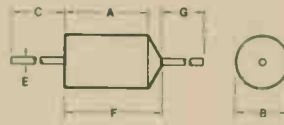
Fig. H Audio output as a function of input e.m.f. The curves numbered 1 were measured with the muting system active. The curves numbered 2 were measured with the muting system disabled by injecting about $20 \mu A$ into pin 1 of the TDA7000. The input frequency was 96 MHz modulated with 1 kHz with a deviation of ± 22.5 kHz for the output level curves, and ± 75 kHz for the distortion curve.

QUICK CASE REFERENCE

A1



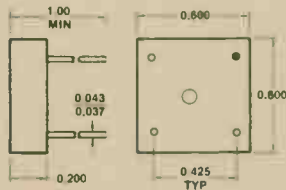
A3



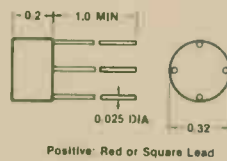
DO41



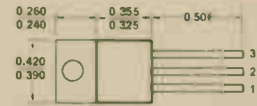
M532A



M548

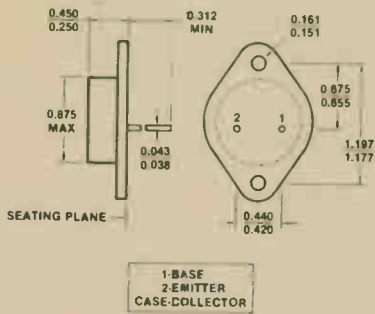


MU27

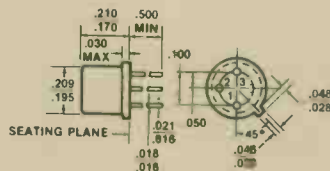


SCR	TRIAC
1 CATHODE	1 ANODE 1
2 ANODE	2 ANODE 2
3 GATE	3 GATE

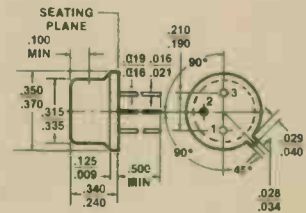
TO3



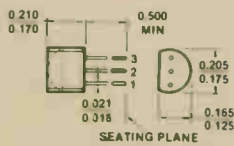
TO18



TO39

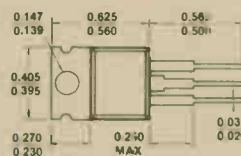


TO92



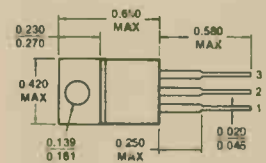
N-CHANNEL FET	UNIJUNCTION	BIPOLAR
1 SOURCE	1 BASE 1	1-EMITTER
2-GATE	2-EMITTER	2-BASE
3-DRAIN	3 BASE 2	3-COLLECTOR

TO220

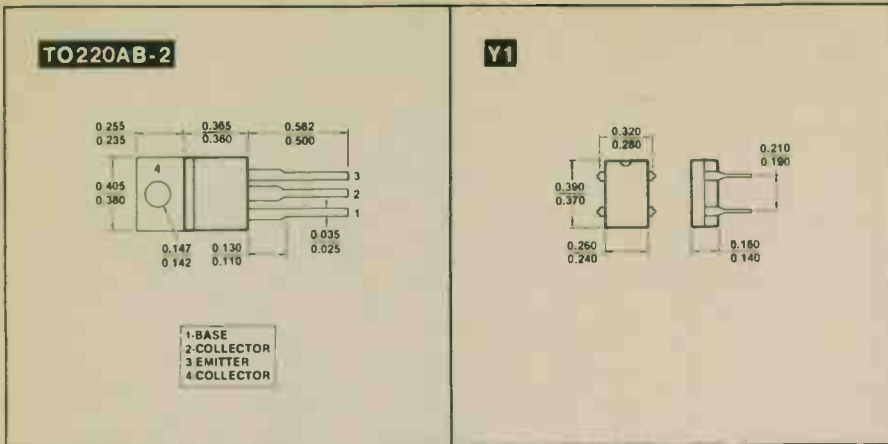


BIPOLAR	TRIAC
1-BASE	1-ANODE 1
2-COLLECTOR	2-ANODE 2
3-EMITTER	3-GATE

TO220AB



1-GATE
2-DRAIN
3-SOURCE



SEMICONDUCTOR CROSS REFERENCE NOTES

- N1 Two required, connect in series—anode to anode.
- N2 Two required, connect in series—cathode to cathode.
- N3 Two required, connect in series—anode to cathode.
- N5 Four required, connect as in original circuit.
- N6 Five required, connect as in original circuit.
- N7 Six required, connect as in original circuit.
- N8 Seven required, connect as in original circuit.
- N9 Eight required, connect as in original circuit.

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(Memory)	29-38
(TTL)	39-44
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DIODE (Zener)	5
DRIVER (Interface)	45-47
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IMPORTANT SUGGESTIONS ON THE USE AND REPLACEMENT OF TRANSISTORS

You can use various styles and sizes of transistors in any given circuit application, as long as the electrical characteristics of the device are within the required range of operation. Thus, a tab-type device can be used to replace a TC-3 or TO-66 case device; or a small epoxy-type device can be used in place of TO-5 or other size transistor.

Generally speaking, you must observe the following maximum characteristics of a transistor when contemplating substitution or selection:

- Power dissipation
- Maximum collector current
- Maximum collector-to-emitter voltage
- Maximum collector-to-base voltage
- Maximum emitter-to-base voltage

Also, it is useful to consider the following characteristics for actual circuit operation:

- Gain
- Frequency limitations

Caution: It may be necessary in some cases to adjust bias values to achieve required operation. With tuned circuits, it is a good practice to check alignment after replacing any transistor.

When replacing power transistors, always check driver devices to be sure they are OK. Also, check other circuit components to be sure they were not shorted (or otherwise defective) when the original device failed. If you fail to correct such problems before applying power to the circuit once again, the replacement transistor could easily be permanently damaged. Be sure to use proper heat-sink precautions and use silicon grease to reduce the thermal resistance between the case of the transistor and the heat-sink.

Always observe temperature limitations as specified with transistor ratings.

It almost goes without saying, but let us remind you anyway—

Always observe voltage polarity with all semiconductor devices.

CROSS-REFERENCE/SUBSTITUTION LISTING

Most users of semiconductors realize that it is almost impossible to guarantee absolute equivalents (as in the case of tubes). Thus, the only way to create replacement or cross-reference listings is by carefully evaluating each characteristic of both devices (original transistor and the possible alternate). This is how the Technical Staff of Radio Shack went about preparing the following cross-reference/replacement lists.

IMPORTANT NOTE

We caution you that in many cases the listed cross reference ARCHER device may be different in appearance, size or mounting style. Thus, before beginning replacement or installation procedures, check to be sure you have enough room for proper mounting.



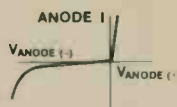

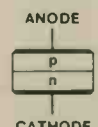

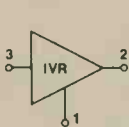
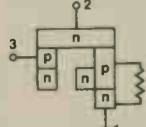
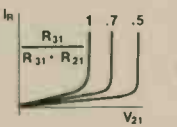

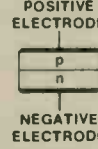


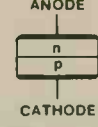


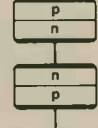

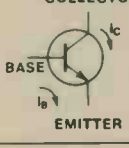
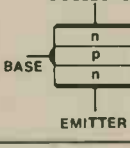
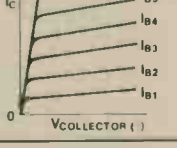

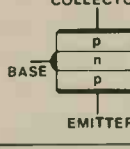
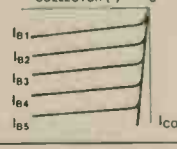
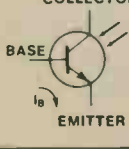
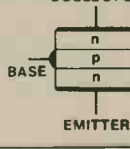
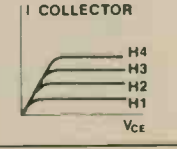

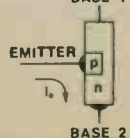

Also, when making substitutions or replacements in radio or high frequency circuitry, it may be necessary to realign tunable circuit elements. This is true even

when making exact replacements (junction capacitances normally vary between devices even from the same production run).

Information contained in this guide is based on the latest available data and is believed to be accurate. Every care has been taken to assure technical accuracy. However, Radio Shack does not assume responsibility for any contingencies of the use of this information. Nor does Radio Shack assume any responsibility for any infringements of patents or other rights of third parties which may result from its use.

When you are looking for a specific number and it does not show up in the following listing—refer to the technical data provided for our line of ARCHER devices. With this information you probably will be able to make a suitable substitution.

MAJOR SEMICONDUCTOR COMPONENTS

NAME OF DEVICE	CIRCUIT SYMBOL	COMMONLY USED JUNCTION SCHEMATIC	ELECTRICAL CHARACTERISTICS	MAX RATINGS AVAILABLE	MAJOR APPLICATIONS	ROUGHLY ANALOGOUS TO:	
Diode or Rectifier				Conducts easily in one direction, blocks in the other	1500 Amps 3000 Volts	Rectification Blocking Detecting Steering	Check valve Diode tube Gas diode
Avalanche (Zener) Diode				Constant voltage characteristic in negative quadrant	22 Volts 1 Watt	Regulation Reference Clipping	V-R tube
Integrated Voltage Regulator (IVR)				Programmed to desired V_{21} by two resistors	40 Volts 100 mA 0.4 Watts	Shunt voltage regulator Reference element Error modifier Level sensing Level shifting	Avalanche Diode
Tunnel Diode				Displays negative resistance when current exceeds peak point current I_p	Peak point current = 100 mA Resistive cutoff freq. = 40 Gc	UHF converter Logic circuits Microwave circuits Level sensing	None
Back Diode				Similar characteristics to conventional diode except very low forward voltage drop	5 mA 400 mV	Microwave mixers and low power oscillators	None
Thyrector				Rapidly increasing current above rated voltage in either direction	70 A peak pulse (2" Sq. cell)	Transient voltage suppression and arc suppression	Thyrite Two avalanche diodes in inverse-series connection
n-p-n Transistor				Constant collector current for given base drive	300 Volts 25 Watts	Amplification Switching Oscillation	Pentode Tube
p-n-p Transistor				Complement to n-p-n transistor	75 Volts 25 Watts	Amplification Switching Oscillation	None
Photo Transistor				Incident light acts as base current of the photo transistor	45 Volts 0.25 Amps 0.6 Watts	Tape readers Card readers Position sensor Tachometers	None
Unijunction Transistor (UJT)				Unijunction emitter blocks until its voltage reaches V_p ; then conducts	35 Volts 0.450 Watts	Interval timing Oscillation Level Detector SCR Trigger	None

MAJOR SEMICONDUCTOR COMPONENTS

NAME OF DEVICE	CIRCUIT SYMBOL	COMMONLY USED JUNCTION SCHEMATIC	ELECTRICAL CHARACTERISTICS	MAX RATINGS AVAILABLE	MAJOR APPLICATIONS	ROUGHLY ANALOGOUS TO:
Complementary Unijunction Transistor (CUJT)				30 Volts 0.30 Watts 0.15 Amps	High stability timers Oscillators and level detectors	None
Programmable Unijunction Transistor (PUT)				40 Volts 0.30 Watts 0.15 Amps	Low cost timers and oscillators Long period timers SCR trigger Level detector	UJT
Silicon Controlled Rectifier (SCR)				1000 Amps 1800 Volts	Power switching Phase control Inverters Choppers	Gas thyatron or ignitron
Complementary Silicon Controlled Rectifier (CSCR)				50 Volts 0.25 Amps 0.45 Watts	Ring counters Low speed logic Lamp driver	None
Light Activated SCR* (LASCR)				1.6 Amps 200 Volts	Relay Replacement Position controls Photoelectric applications Slave flashes	None
Silicon Controlled Switch* (SCS)				100 Volts 200 mA	Logic applications Counters Nixie drivers Lamp drivers	Complementary transistor pair
Silicon Unilateral Switch (SUS)				0.350 Watts 0.200 Amps 10 Volts	Switching Circuits Counters SCR Trigger Oscillator	Shockley or 4-layer diode
Silicon Bilateral Switch (SBS)				0.350 Watts 0.200 Amps 10 Volts	Switching Circuits Counters TRIAC Phase Control	Two inverse Schottky diodes
Triac				25 Amps 500 Volts	AC switching Phase control Relay replacement	Two SCR's in inverse parallel
Diac Trigger				40 Volts 2 Amps peak	Triac and SCR trigger Oscillator	Neon lamp

*Light Activated SCS also available.

GLOSSARY OF WORDS, SYMBOLS AND ABBREVIATIONS

The following letter symbols and abbreviations are recommended by the Joint Electron Device Engineering Council (JEDEC) of the Electronic Industries Association (EIA) and the National Electrical Manufacturers Association (NEMA) for use in semiconductor device data sheets and specifications.

A, a —Anode	G_{pc} —Common-collector small-signal insertion power gain
B, b —Base	G_{pe} —Common-emitter large-signal insertion power gain
b_{fs} —Common-source small-signal forward transfer susceptance	G_{pe} —Common-emitter small-signal insertion power gain
b_{is} —Common-source small-signal input susceptance	G_{pg} —Common-gate small-signal insertion power gain
b_{os} —Common-source small-signal output susceptance	G_{ps} —Common-source small-signal insertion power gain
b_{rs} —Common-source small-signal reverse transfer susceptance	g_{rs} —Common-source small-signal reverse transfer conductance
C, c —Collector	G_{FB} —Common-base large-signal transducer power gain
C_{cb} —Collector-base interterminal capacitance	G_{tb} —Common-base small-signal transducer power gain
C_{ce} —Collector-emitter interterminal capacitance	G_{TC} —Common-collector large-signal transducer power gain
C_{ds} —Drain-source capacitance	G_{tc} —Common-collector small-signal transducer power gain
C_{du} —Drain-substrate capacitance	G_{TE} —Common-emitter large-signal transducer power gain
C_{eb} —Emitter-base interterminal capacitance	G_{te} —Common-emitter small-signal transducer power gain
C_{ibo} —Common-base open-circuit input capacitance	G_{tk} —Common-gate small-signal transducer power gain
C_{ibs} —Common-base short-circuit input capacitance	G_{ts} —Common-source small-signal transducer power gain
C_{ieo} —Common-emitter open-circuit input capacitance	h_{FB} —Common-base static forward current transfer ratio
C_{ies} —Common-emitter short-circuit input capacitance	h_{fb} —Common-base small-signal short-circuit forward current transfer ratio
C_{iss} —Common-source short-circuit input capacitance	h_{FC} —Common-collector static forward current transfer ratio
C_{obo} —Common-base open-circuit output capacitance	h_{fc} —Common-collector small-signal short-circuit forward current transfer ratio
C_{obs} —Common-base short-circuit output capacitance	h_{FE} —Common-emitter static forward current transfer ratio
C_{oeo} —Common-emitter open-circuit output capacitance	h_{fe} —Common-emitter small-signal short-circuit forward current transfer ratio
C_{oes} —Common-emitter short-circuit output capacitance	h_{FEL} —Inherent large-signal forward current transfer ratio
C_{oss} —Common-source short-circuit output capacitance	h_{IB} —Common-base static input resistance
C_{rbs} —Common-base short-circuit reverse transfer capacitance	h_{ib} —Common-base small-signal short-circuit input impedance
C_{rcs} —Common-collector short-circuit reverse transfer capacitance	h_{IC} —Common-collector static input resistance
C_{res} —Common-emitter short-circuit reverse transfer capacitance	h_{ic} —Common-collector small-signal short-circuit input impedance
C_{rss} —Common-source short-circuit reverse transfer capacitance	h_{IE} —Common-emitter static input resistance
C_{ic} —Collector depletion-layer capacitance	h_{ie} —Common-emitter small-signal short-circuit input impedance
C_{ie} —Emitter depletion-layer capacitance	h_{ie(imag)} —Imaginary part of common-emitter small-signal short-circuit input impedance
D, d —Drain	h_{ie(real)} —Real part of common-emitter small-signal short-circuit input impedance
E, e —Emitter	h_{ob} —Common-base small-signal open-circuit output admittance
η —Intrinsic standoff ratio	h_{oc} —Common-collector small-signal open-circuit output admittance
f_{hfb} —Common-base small-signal short-circuit forward current transfer ratio cutoff frequency	h_{oe} —Common-emitter small-signal open-circuit output admittance
f_{hfc} —Common-collector small-signal short-circuit forward current transfer ratio cutoff frequency	h_{oe(imag)} —Imaginary part of common-emitter small-signal open-circuit output admittance
f_{hfe} —Common-emitter small-signal short-circuit forward current transfer ratio cutoff frequency	
f_{max} —Maximum frequency of oscillation	
F_T —Transition frequency (frequency at which common-emitter small-signal forward current transfer ratio extrapolates to unity)	
G, g —Gate	
g_{fs} —Common-source small-signal forward transfer conductance	
g_{is} —Common-source small-signal input conductance	
g_{MB} —Common-base static transconductance	
g_{MC} —Common-collector static transconductance	
g_{ME} —Common-emitter static transconductance	
g_{os} —Common-source small-signal output conductance	
G_{FB} —Common-base large-signal insertion power gain	
G_{pb} —Common-base small-signal insertion power gain	
G_{pc} —Common-collector large-signal insertion power gain	

- $h_{oe(\text{real})}$** —Real part of common-emitter small-signal open-circuit output admittance
- h_{rb}** —Common-base small-signal open-circuit reverse voltage transfer ratio
- h_{rc}** —Common-collector small-signal open-circuit reverse voltage transfer ratio
- h_{re}** —Common-emitter small-signal open-circuit reverse voltage transfer ratio
- I_B** —Base-terminal dc current
- I_b** —Alternating component (rms value) of base-terminal current
- i_b** —Instantaneous total value of base-terminal current
- I_{BEV}** —Base cutoff current, dc
- $I_{BZ(\text{mod})}$** —Interbase modulated current
- I_C** —Collector-terminal dc current
- I_c** —Alternating component (rms value) of collector-terminal current
- i_c** —Instantaneous total value of collector-terminal current
- I_{CBO}** —Collector cutoff current (dc), emitter open
- I_{CEO}** —Collector cutoff current (dc), base open
- I_{CER}** —Collector cutoff current (dc), specified resistance between base and emitter
- I_{CES}** —Collector cutoff current (dc), base shorted to emitter
- I_{CEV}** —Collector cutoff current (dc), specified voltage between base and emitter
- I_{CEX}** —Collector cutoff current (dc), specified circuit between base and emitter
- I_D** —Drain current, dc
- $I_{D(\text{off})}$** —Drain cutoff current
- $I_{D(\text{on})}$** —On-state drain current
- I_{DSS}** —Zero-gate-voltage drain current
- I_E** —Emitter-terminal dc current
- I_e** —Alternating component (rms value) of emitter-terminal current
- i_E** —Instantaneous total value of emitter-terminal current
- I_{EBO}** —Emitter cutoff current (dc), collector open
- I_{EBZ}** —Emitter reverse current
- $I_{EC(\text{ofs})}$** —Emitter-collector offset current
- I_{ECS}** —Emitter cutoff current (dc), base short-circuited to collector
- $I_{E1E2(\text{off})}$** —Emitter cutoff current
- I_F** —For voltage-regulator and voltage-reference diodes: dc forward current. For signal diodes and rectifier diodes: dc forward current (no alternating component)
- I_f** —Alternating component of forward current (rms value)
- i_F** —Instantaneous total forward current
- $I_{F(AV)}$** —Forward current, dc (with alternating component)
- I_{FM}** —Maximum (peak) total forward current
- $I_{F(OV)}$** —Forward current, overload
- I_{FRM}** —Maximum (peak) forward current, repetitive
- $I_{F(RMS)}$** —Total rms forward current
- I_{FSM}** —Maximum (peak) forward current, surge
- I_G** —Gate current, dc
- I_{GF}** —Forward gate current
- I_{GR}** —Reverse gate current
- I_{GSS}** —Reverse gate current, drain short-circuited to source
- I_{GSSF}** —Forward gate current, drain short-circuited to source
- I_{GSSR}** —Reverse gate current, drain short-circuited to source
- I_i** —Inflection-point current
- $Im(h_{ie})$** —Imaginary part of common-emitter small-signal short-circuit input impedance
- $Im(h_{oe})$** —Imaginary part of common-emitter small-signal open-circuit output admittance
- I_O** —Average forward current, 180° conduction angle, 60-Hz half sine wave
- I_P** —Peak-point current
- I_R** —For voltage-regulator and voltage-reference diodes: dc reverse current. For signal diodes and rectifier diodes: dc reverse current (no alternating component)
- I_r** —Alternating component of reverse current (rms value)
- i_R** —Instantaneous total reverse current
- $I_{R(AV)}$** —Reverse current, dc (with alternating component)
- I_{RM}** —Maximum (peak) total reverse current
- I_{RRM}** —Maximum (peak) reverse current, repetitive
- $I_{R(RMS)}$** —Total rms reverse current
- I_{RSM}** —Maximum (peak) surge reverse current
- I_S** —Source current, dc
- I_{SDS}** —Zero-gate-voltage source current
- $I_{S(\text{off})}$** —Source cutoff current
- I_v** —Valley-point current
- I_Z** —Regulator current, reference current (dc)
- I_{ZK}** —Regulator current, reference current (dc near breakdown knee)
- I_{ZM}** —Regulator current, reference current (dc maximum rated current)
- K, k** —Cathode
- L_c** —Conversion loss
- M** —Figure of merit
- NF_o** —Overall noise figure
- NR_o** —Output noise ratio
- P_{BE}** —Power input (dc) to base, common emitter
- p_{BE}** —Instantaneous total power input to base, common emitter
- P_{CB}** —Power input (dc) to collector, common base
- p_{CB}** —Instantaneous total power input to collector, common base
- P_{CE}** —Power input (dc) to collector, common emitter
- p_{CE}** —Instantaneous total power input to collector, common emitter
- P_{EB}** —Power input (dc) to emitter, common base
- p_{EB}** —Instantaneous total power input to emitter, common base
- P_F** —Forward power dissipation, dc (no alternating component)
- p_F** —Instantaneous total forward power dissipation
- $P_{F(AV)}$** —Forward power dissipation, dc (with alternating component)
- P_{FM}** —Maximum (peak) total forward power dissipation
- P_{IB}** —Common-base large-signal input power
- p_{ib}** —Common-base small-signal input power
- P_{IC}** —Common-collector large-signal input power
- p_{ic}** —Common-collector small-signal input power
- P_{IE}** —Common-emitter large-signal input power
- p_{ie}** —Common-emitter small-signal input power
- P_{OB}** —Common-base large-signal output power
- p_{ob}** —Common-base small-signal output power
- P_{OC}** —Common-collector large-signal output power
- p_{oc}** —Common-collector small-signal output power
- P_{OE}** —Common-emitter large-signal output power
- p_{oe}** —Common-emitter small-signal output power
- P_R** —Reverse power dissipation, dc (no alternating component)
- p_R** —Instantaneous total reverse power dissipation
- $P_{R(AV)}$** —Reverse power dissipation, dc (with alternating component)

- P_{RM}** —Maximum (peak) total reverse power dissipation
P_T —Total nonreactive power input to all terminals
p_T —Nonreactive power input, instantaneous total, to all terminals
Q_S —Stored charge
r_{BB} —Interbase resistance
r_bC_c —Collector-base time constant
r_{CE(sat)} —Saturation resistance, collector-to-emitter
r_{DS(on)} —Static drain-source on-state resistance
r_{ds(on)} —Small-signal drain-source on-state resistance
Re(h_{ie}) —Real part of common-emitter small-signal short-circuit input impedance
Re(h_{oe}) —Real part of common-emitter small-signal open-circuit output admittance
r_{e1e2(on)} —Small-signal emitter-emitter on-state resistance
r_i —Dynamic resistance at inflection point
R_θ —Thermal resistance
R_{θCA} —Thermal resistance, case to ambient
R_{θJA} —Thermal resistance, junction to ambient
R_{θJC} —Thermal resistance, junction to case
S, s —Source
T_A —Ambient temperature or free-air temperature
T_C —Case temperature
t_d —Delay time
t_{d(off)} —Turn-off delay time
t_{d(on)} —Turn-on delay time
t_f —Fall time
t_{fr} —Forward recovery time
T_J —Junction temperature
t_{off} —Turn-off time
t_{on} —Turn-on time
t_p —Pulse time
t_r —Rise time
t_{rr} —Reverse recovery time
t_s —Storage time
TSS —Tangential signal sensitivity
T_{stR} —Storage temperature
t_w —Pulse average time
U, u —Bulk (substrate)
V_{BB} —Base supply voltage (dc)
V_{BC} —Average or dc voltage, base to collector
V_{bc} —Instantaneous value of alternating component of base-collector voltage
V_{BE} —Average or dc voltage, base to emitter
v_{be} —Instantaneous value of alternating component of base-emitter voltage
V_(BR) —Breakdown voltage (dc)
v_(BR) —Breakdown voltage (instantaneous total)
V_{(BR)CBO} —Collector-base breakdown voltage, emitter open
V_{(BR)CEO} —Collector-emitter breakdown voltage, base open
V_{(BR)CER} —Collector-emitter breakdown voltage, resistance between base and emitter
V_{(BR)CES} —Collector-emitter breakdown voltage, base shorted to emitter
V_{(BR)CEV} —Collector-emitter breakdown voltage, specified voltage between base and emitter
V_{(BR)CEX} —Collector-emitter breakdown voltage, specified circuit between base and emitter
V_{(BR)EBO} —Emitter-base breakdown voltage, collector open
V_{(BR)ECO} —Emitter-collector breakdown voltage, base open
V_{(BR)EIE2} —Emitter-emitter breakdown voltage
V_{(BR)CSS} —Gate-source breakdown voltage
V_{(BR)CSSF} —Forward gate-source breakdown voltage
V_{(BR)CSSR} —Reverse gate-source breakdown voltage
V_{BZ1} —Interbase voltage
V_{CB} —Average or dc voltage, collector to base
v_{cb} —Instantaneous value of alternating component of collector-base voltage
V_{CB(f)} —Collector-base dc open-circuit voltage (floating potential)
V_{CBO} —Collector-base voltage, dc, emitter open
V_{CC} —Collector supply voltage (dc)
V_{CE} —Average or dc voltage, collector to emitter
v_{ce} —Instantaneous value of alternating component of collector-emitter voltage
V_{CE(f)} —Collector-emitter dc open-circuit voltage (floating potential)
V_{CEO} —Collector-emitter voltage (dc), base open
V_{CE(ofs)} —Collector-emitter offset voltage
V_{CER} —Collector-emitter voltage (dc), resistance between base and emitter
V_{CES} —Collector-emitter voltage (dc), base shorted to emitter
V_{CE(sat)} —Collector-emitter dc saturation voltage
V_{CEV} —Collector-emitter voltage (dc), specified voltage between base and emitter
V_{CEX} —Collector-emitter voltage (dc), specified circuit between base and emitter
V_{DD} —Drain supply voltage (dc)
V_{DG} —Drain-gate voltage
V_{DS} —Drain-source voltage
V_{DS(on)} —Drain-source on-state voltage
V_{DI} —Drain-substrate voltage
V_{EB} —Average or dc voltage, emitter to base
v_{eb} —Instantaneous value of alternating component of emitter-base voltage
V_{EB(f)} —Emitter-base dc open-circuit voltage (floating potential)
V_{EBO} —Emitter-base voltage (dc), collector open
V_{EB1(sat)} —Emitter saturation voltage
V_{EC} —Average or dc voltage, emitter to collector
v_{ec} —Instantaneous value of alternating component of emitter-collector voltage
V_{EC(f)} —Emitter-collector dc open-circuit voltage (floating potential)
V_{EC(ofs)} —Emitter-collector offset voltage
V_{EE} —Emitter supply voltage (dc)
V_F —For voltage-regulator and voltage-reference diodes: dc forward voltage. For signal diodes and rectifier diodes: dc forward voltage (no alternating component)
V_f —Alternating component of forward voltage (rms value)
V_F —Instantaneous total forward voltage
V_{F(AV)} —Forward voltage, dc (with alternating component)
V_{FM} —Maximum (peak) total forward voltage
V_{F(RMS)} —Total rms forward voltage
V_{GG} —Gate supply voltage (dc)
V_{GS} —Gate-source voltage
V_{GSF} —Forward gate-source voltage
V_{GS(off)} —Gate-source cutoff voltage
V_{GSR} —Reverse gate-source voltage
V_{GS(th)} —Gate-source threshold voltage
V_{GU} —Gate-substrate voltage
V_i —Inflection-point voltage
V_{OB1} —Base-1 peak voltage
V_P —Peak-point voltage
V_{PP} —Projected peak-point voltage
V_R —For voltage-regulator and voltage-reference diodes: dc reverse voltage. For signal diodes and rectifier diodes: dc reverse voltage (no alternating component)
V_r —Alternating component of reverse voltage (rms value)

- V_R —Instantaneous total reverse voltage
- $V_{R(AV)}$ —Reverse voltage, dc (with alternating component)
- V_{RM} —Maximum (peak) total reverse voltage
- V_{RRM} —Repetitive peak reverse voltage
- $V_{R(RMS)}$ —Total rms reverse voltage
- V_{RSM} —Nonrepetitive peak reverse voltage
- V_{RT} —Reach-through voltage
- V_{RWM} —Working peak reverse voltage
- V_{SS} —Source supply voltage (dc)
- V_{SU} —Source-substrate voltage
- $V_{(TO)}$ —Threshold voltage
- V_V —Valley-point voltage
- V_Z —Regulator voltage, reference voltage (dc)
- V_{ZM} —Regulator voltage, reference voltage (dc at maximum rated current)
- y_{fb} —Common-base small-signal short-circuit forward transfer admittance
- y_{fc} —Common-collector small-signal short-circuit forward transfer admittance
- y_{fe} —Common-emitter small-signal short-circuit forward transfer admittance
- y_{fs} —Common-source small-signal short-circuit forward transfer admittance
- $y_{fs(imag)}$ —Common-source small-signal forward transfer susceptance
- $y_{fs(real)}$ —Common-source small-signal forward transfer conductance
- y_{ib} —Common-base small-signal short-circuit input admittance
- y_{ic} —Common-collector small-signal short-circuit input admittance
- y_{ie} —Common-emitter small-signal short-circuit input admittance
- $y_{ie(imag)}$ —Imaginary part of small-signal short-circuit input admittance (common-emitter)
- $y_{ie(real)}$ —Real part of small-signal short-circuit input admittance (common-emitter)
- y_{is} —Common-source small-signal short-circuit input admittance
- $y_{is(imag)}$ —Common-source small-signal input susceptance
- $y_{is(real)}$ —Common-source small-signal input conductance
- y_{ob} —Common-base small-signal short-circuit output admittance
- y_{oc} —Common-collector small-signal short-circuit output admittance
- y_{oe} —Common-emitter small-signal short-circuit output admittance
- $y_{oe(imag)}$ —Imaginary part of small-signal short-circuit output admittance (common-emitter)
- $y_{oe(real)}$ —Real part of small-signal short-circuit output admittance (common-emitter)
- y_{os} —Common-source small-signal short-circuit output admittance
- $y_{os(imag)}$ —Common-source small-signal output susceptance
- $y_{os(real)}$ —Common-source small-signal output conductance
- y_{rb} —Common-base small-signal short-circuit reverse transfer admittance
- y_{rc} —Common-collector small-signal short-circuit reverse transfer admittance
- y_{re} —Common-emitter small-signal short-circuit reverse transfer admittance
- y_{rs} —Common-source small-signal short-circuit reverse transfer admittance
- $y_{rs(imag)}$ —Common-source small-signal reverse transfer susceptance
- $y_{rs(real)}$ —Common-source small-signal reverse transfer conductance
- z_{if} —Intermediate-frequency impedance
- z_m —Modulator-frequency load impedance
- z_{rf} —Radio-frequency impedance
- $Z_{\theta(A(t)}$ —Junction-to-ambient transient thermal impedance
- $Z_{\theta(C(t)}$ —Junction-to-case transient thermal impedance
- $Z_{\theta(t)}$ —Transient thermal impedance
- z_v —Video impedance
- z_v —Regulator impedance, reference impedance (small-signal at I_x)
- z_{zk} —Regulator impedance, reference impedance (small-signal at I_{ZK})
- z_{zm} —Regulator impedance, reference impedance (small-signal at I_{ZM})

PREFIX AND MANUFACTURER IDENTIFICATION

PREFIX	MANUFACTURER	PREFIX	MANUFACTURER	PREFIX	MANUFACTURER
BA	Rohm	MOC	Motorola	SLP	Sanyo
CEX	Control Electronics	MPS	Motorola	SN	Texas Instruments
DAC	National Semiconductor	MRF	Motorola	TA	Toshiba
FND	Fairchild	MU	Motorola	TIL	Texas Instruments
FRL	Litronix	MV	General Instrument	TIP	Motorola
ICM	Intersil	NE	Signetics	TLO	Texas Instruments
LF	National Semiconductor	NSM	National Semiconductor	TL	Texas Instruments
LM	National Semiconductor	PCIM	PC International	TLC	Toshiba
MA	National Semiconductor	S	American Micro Systems	TLR	Toshiba
MC	Motorola	SAD	Reticon	VN	Siliconix
MJ	Motorola	SE	Signetics	XC	Xciron
MM	National Semiconductor, Motorola or Teledyne	SEL	Sanken		
		SCS	Spectronics		

GENERIC PART NUMBER PREFIX CODE

AD	Analog To Digital	DA	Digital To Analog	LM	Linear Monolithic
AH	Analog Hybrid	DM	Digital Monolithic	MM	MOS Monolithic
AM	Analog Monolithic	LF	Linear FET	TBA	Linear Monolithic
CD	CMOS Digital	LH	Linear Hybrid		

ARCHER SEMICONDUCTOR REPLACEMENT GUIDE

DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
0000050F1	1104	000073230	1617	001-0163-02	565	001-044674-001	2009	004-03700	1104	0099203-005	1104	01-201-0	2009
0000050F2	1104	000073231	1617	001-0163-15	562	001-044676-001	1122	004-2	2020	0099203-007	1104	01-9011-5/2221-3	2009
0000050F3	1104	000073280	2017	001-01501-0	1123	001-044677-001	2016	005-02	1617	00260118	1104	01-9013-7/2221-3	2009
0000050M4	1122	000073290	1617	001-02101-0	1617	001-211011	1617	C05-1	2020	008010028	1122	01-9014-2/2221-3	2009
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05-150018	1104	05Z9.1Z	562	09-300064	2023	09-302165	2009	09-305134	2023	09-306198	1122	09-306431	1114
05-170034	1123	05Z12	563	09-300070	2023	09-302170	2020	09-305135	2035	09-306202	1122	09-306432	1104
05-170060	1123	05Z12X	563	09-300074	2023	09-302171	2030	09-305138	2041	09-306204	1122	09-306433	1104
05-174002	1104	05Z12Y	563	09-300077	2023	09-302172	1617	09-305139	2009	09-306205	1104	09-307039	1122
05-174004	1103	05Z12Z	563	09-300080	2023	09-302173	2009	09-305140	2020	09-306206	1122	09-307055	1122
05-180034	1123	05Z15	564	09-300081	2023	09-302174	2016	09-30					

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
09-309023	1617	020-1110-008(SCOTT)	2030	025-100027	1123	070-014	1114	0105-0614	2050	0321	1104	025589	2023
09-309024	2016			025-100020	1104	070-015	1114	0105-329	2016	0322	1104	027063	2041
09-309027	2016	020-1110-010	2016	025-100029	1104	070-016	1114	0103-51294	2017	0324	1104	045001	2016
09-309028	2016	020-1110-010(SCOTT)	2016	025-100030	1617	070-017	1114	0104-0013	2020	0327	1114	041001	2023
09-309031	2016		1617	025-100035	1104	070-019	1104	0104-0013-6438	2020	0400	1104	041205-30110	1122
09-309030	2023	020-1110-011	2009	025-100036	2016	070-021	564	0105-0012	2035	0401	1104	041616	1122
09-309042	2023	020-1110-011(SCOTT)	2016	025-100036-12	2016	070-022	1122	0110	1104	0402	1104	043001	2016
09-309049	1617		1617	025-100037	2016	070-028	1114	0110-0011	1104	0410	1104	053480	2016
09-309050	1617	020-1110-012	2016	025-100037-12	2016	070-030	1114	0110-0141	1104	0411	1104	055210H	1104
09-309059	2016	020-1110-012(SCOTT)	2016	025-100038	2016	070-031	1114	0110-0141-6438	1104	0412	1104	055228	1114
09-309060	1617		1617	025-100038-12	2016	070-032	1114	0110-0209	1104	0413	2020	055128H	1114
09-309061	2009	020-1110-013	2016	025-100040	1617	070-033	1114	0110-0209-6438	1104	0450	1104	057001	1123
09-309069	2016	020-1110-013(SCOTT)	2016	0258	1617	070-035	1114	0111	1122	0460	1104	057001H	1123
09-309070	2016		1617	0258-YEL	1617	070-041	1114	0112	1104	0800	1122	057001	1123
09-309072	2009	020-1110-016	2035	026-100013	2030	070-047	1122	0112-0019	1123	0557-010	1104	057001H	1123
09-309073	2016	020-1110-016(SCOTT)	2016	026-100017	1617	072-1	1122	0112-0028	1123	0575-005	1123	057019H	1123
09-309076	1617		2035	026-100026	1617	078-0016	1104	0112-0028/5462	1123	0700	1104	057500	1123
09-309171	1122	020-1110-017	2009	027-000296	1104	078-1696	1104	0112-0028-6438	1123	0701	1104	059395	1123
09-3060111	1122	020-1110-017(SCOTT)	2016	027-000306	1104	078-2400	1104	0112-0037	1123	0702	1104	061366	2009
09-5T-25A755C	2027		1617	027-000312	1104	078-5001	1104	0112-0037-6438	1123	0703	2016	062971	1000
09C5	562	020-1110-018	2035	028-390-226	1123	083-1	2023	0112-0044	1123	0706	1104	077944-001	2041
09D	562	020-1110-018(SCOTT)	2030	030	1114	083-6	2023	0112-0073	1123	0707	1114	075001	1123
09E1-25A755C	2027		2035	030-007-0	2023	085	2001	0112-0081	1123	0710	1104	080004	2016
011-1020-005	1122	020-1110-021	2035	031	1114	089-214	2016	0114-0036/4460	1123	0717-50	1104	080011	2016
011-1021-001	1122	020-1110-022	2035	031-025-0	2009	089-215	2016	0114	1122	0811	2022	080022	2016
012-1022-002	1101	020-1110-027	2023	031A	1617	089-216	2016	0114-0017	562	01122-0073	1123	080023	2016
012-1024-001	1122	020-1110-002	2041	032	1114	089-223	1617	0114-0090	562	01339	1104	080040	1104
012-1025-002	1114	020-1111-002(SCOTT)	2041	033-3	2030	089-226	1617	0114-0090-6438	562	03008-1	1617	080041	2016
012E	1617		2041	033A	2016	089-236	1123	0121	1617	03500	1123	080042	2016
013-0144-6438	1104	020-1111-003(SCOTT)	2041	034-001-0	1123	089-241	1123	0122-0028-6438	1123	03571	1123	080050	1104
013-339	1104		2041	034-032-0	1122	089-248	1123	0124(KNIGHT)	2023	04049E	1104	080059	2016
014-411	1923	020-1111-004	2027	035	1114	089-293	1123	0124A	2023	04170	1171	080060	2016
014-437	2023	020-1111-005	2020	037	1617	090A44-1	1123	0125	1617	04776	1123	080064	2009
014-498	1617	020-1111-007	2041	038	2020	094-007	1122	0126	1617	04876	1114	080070	2009
014-784	1617	020-1111-007(SCOTT)	2041	041	1617	094-010	1114	0127	1617	04876-C	2016	080080	2009
014-862	2016		2041	042	1617	094-011	1104	0128	1617	08050	1104	080208	2009
015-002	1104	020-1111-008	2041	045-1	2016	094-012	1114	0130	2030	09501	2016	080401	2023
015-006	1104	020-1111-008(SCOTT)	2041	045-1(SYLVANIA)	2016	094-014	1123	0131	1617	09502	2016	080502	1123
015-1	1067		2041	045-2	2016	098-1	1104	0131-000335	2023	09502-8	1617	080503	1122
016B12	1617	020-1111-018	2030	045-2(SYLVANIA)	2016	098G1219	1114	0131-000473	1617	09800	2023	080504	1123
016B818	1617	020-1112-001	1617	046-0134	1122	099-1	2020	0131-000561	2020	09800C	2023	080505	1123
016B612	1617	020-1112-002	2035	046-0909	1122	099-1(SYL)	2020	0131-001704	1617	010542	2023	080506	1123
017B824	1617	020-1112-004	2016	046-1	2017	0100	1104	0131-0029	1104	011119	1123	080511	1123
018-00001	2023	020-1112-004(SCOTT)	2016	046-1(SYLVANIA)	2017	0101-0465	2027	0131-0044	1104	013239(RECTIFIER)	1114	080516	1123
018-00002	2023		1617	050-0011-00	1104	0101-0491	1617	0131-0057	1104	015040/7	1802	0112945	1171
018-00003	1617	020-1112-005	2035	051-0003	1122	0101-0531	2016	0131-001328	2023	018077	2030	0112945(ELGIN)	1171
018-00005	2017	020-1112-006	2035	051-0006	1104	0101-0540	1617	0131-001329	2023	021154	1104	0170301	1122
018-00006	1104	020-1112-007	2035	051-003	1122	0102	1104	0131-001417	1617	023606	2035	0207205	705
018-00007	1104	020-1112-008	2035	051-0016-00	1104	0103	2035	0131-001418	1617	023762	2041	0260540	562
018-00008	1104	020-1112-009	2035	051-0020	1122	0103-0014	1617	0131-001420	2023	025026	1104	0320031	2009
018-00009	1104	022-006500	1617	051-0046	1617	0103-0014(R,S)	2030	0131-001421	1617	025056	1104	0320044	2009
018-00008	1104	022-009600	2009	051-0047	1617	0103-0014R	2030	0131-001422	1617	025072	1114	0320050	562
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018-00009	1617	022-2823-002	562	051-0055-02	705	0103-0014T	2030	0131-001424	1617	030010	2009	0444036-01H	1617
018-00010	1617	022-2823-003	1123	051-0055-03	705	0103-0014U	2030	0131-001429	2030	030016-1	2009	0510006	1104
019-001918	1123	022-2823-004	1122	051-0055-0203	705	0103-0051	2030	0131-001430	2030	030011	2030	0517022	1123
019-001980	1123	022-2823-005	1122	051-0107	2023	0103-0060	2016	0131-001439	2023	030011-1	2030	0517132	1122
019-002935	1104	022-2823-006	1123	051-0107B	2023	0103-0060(B)	2009	0131-001464	1617	030011-2	2030	0517133	1122
019-002964	1122	022-2823-007	1123	051-0155	1617	0103-0060-6438	2016	0131-001597	2041	030387	1067	0517550	1104
019-003349	2030	022-2823-008	1123	055	1617	0103-0060A	2009	0131-001864	1617	030512-1	2009	0517550-3	1104
019-003420	1104	022-2823-009	1104	056	2022	0103-0060B	2016	0131-002049	2027	030512-2	2009	0517730	1104
019-003470-013	1104	022-2823-010	1122	057	1617	0103-0060C	2016	0131-002049	2041	030515	2009	0517730H	1104
019-003470-018	1104	022-2823-011	1104	057B474H	2016	0103-0088/4460	2016	0131-002007	2030	030515-4	2009	0517824	1123
019-003429	2016	022-2876-001	2035	058	1104	0103-0088H	1617	0121-026	1104	030527	2009	0517826	1123
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019-005010	2023	022-2876-006	2035	065-004	1617	0103-052	2016	0133	2023	030537-1	2009	0525002H	1123
019-005043	1123	022-2876-007	2009	065-006	2016	0103-0191	2016	0134	1617	030537-2	2009	0526224	1123
019-102311	1123	022-2876-009	2035	065-012	1122	0103-0389	2016						

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
057344	2016	06100020	2023	06120619	2009	06200202(,RH-12V)	1104	0F160	1104	72M12C	563	1/2Z9.1T5	562
057346F	1617	06100033	2027	06130019	2053		1104	0F162	1122	72M12D	563	1/2Z12T5	563
057346FH	1617	06100034	2023	06130033	2020	05200203	1104	0F173	1123	72M15	564	1/2Z15T5	564
0573474	2016	06100035	2023	06130033(,KTD880-O)	2020	06200203(,RU-1AV)	1104	0W271	2009	72M15A	564	1/2Z27.5T5	562
0573474H	2016	06100047	2023				1104	0W180320-2	2401	72M15B	564	3/4Z12D5	563
0573475	2016	06100053	2023	06130033(,KTD880-Y)	2020	06200207	1104	0.5Z5.1U	565	72M15C	564	3/4Z12D5	563
0573479	2009	06100061	2023			06200207(,SIB01-01V)	1104	4M4.7AZ5	565	72M15D	564	3/4Z12D10	563
0573479H	1617	06100062	2023	06130037	2055		1104	4M4.7AZ10	565	25N9.1	562	1/04Z1207	2009
0573480	2009	06100081	2023	06150031	2009	06200207(,SIB01-01W)	1104	4T9.1	562	25N12	562	1-00004-064	1122
0573480(,25C458C)	2009	06100081	2023	06150031(,KTC9014A)	2009		1104	4T9.1A	562	25N15	564	1-00006-003	2009
	2009	06100082(,KTA562TM-O)	2023		2009	06200226	1122	4T9.1B	562	25NN15	564	1-00006-007	1123
0573480(,25C458D)	2009	06100082	2023	06160008	2016	06200226(,1S2471)	1104	4T12A	563	25T8.8A	562	1-00006-281	1122
	2009	06100082	2023	06173014	2009		1122	4T12B	563	25T9.1	562	1-00007-000	1808
0573480H	2030	06100084	2023	06200001	1123	06200229	1104	4T15	564	25T9.1A	562	1-0002-001	1122
0573481	2009	06100085	2022	06200002	1123	06200229(,W03BTA)	1104	4T15A	564	25T9.1B	562	1-00011-043	562
0573481H	1617	06100086	2023	06200003	1123		1104	4T15B	564	25T12	563	1-00038-008	1122
0573485	2016	06100094	2023	06200005	1114	06200230	1104	5E05	1104	25T12A	563	1-0012207	1122
0573486	2016	06120003	2020	06200009	1114	06200230(,V09G-TA)	1104	5E1	1104	25T12B	563	1-001-003-15	1617
0573486H	2009	06120005	2009	06200010	1102		1104	5E2	1104	25T15	564	1-014/2207	1122
0573487	2009	06120005(,25C458(B))	2009	06200013	1122	06200231	1104	5E3	1104	25T15A	564	1-034/2207	2023
0573487H	2009	06120005(,25C458(B))	2009	06200017	1123	06200231(,V09ETA)	1104	5E4	1104	25T15B	564	1-035/2207	2030
0573490	1617	06120005(,25C458-B)	2009	06200027	1102		1104	5E5	1104	75N5	564	1-037/2207	1123
0573491	2009	06120005(,25C458-B)	2009	06200030	1104	06200232	1104	5E6	1104	75N5.1	565	1-041/2207	2016
0573491H	2009	06120005(,25C458B)	2009	06200039	1104	06200232(,UF-1)	1104	5E7	1114	75N6.2	561	1-042/2207	1617
0573492	2009	06120006	2009	06200044	1122	06200272	565	5E8	1114	75N12	563	1-043/2207	2023
0573494	2016	06120006	2009	06200045	1123	06200283	1104	5E10	1114	1/47M.1AZ5	565	1-044/2207	1617
0573495	2016	06120006(,25C458(C))	2009	06200048	1122	06200284	1104	5I05	1104	1/4A9.1	562	1-20-001-890	1104
0573506	2016	06120006	2009	06200051	1104	06200285	1104	5I1	1104	1/4A9.1A	562	1-20-001890	1104
0573506H	2016	06120006(,25C458-C)	2009	06200052	1104	06200286	1104	5I2	1104	1/4A9.1B	562	1-21-276	1617
0573507	2016	06120006(,25C458-C)	2009	06200055	561	06200288	1104	5I3	1104	1/4A12	563	1-21-277	1617
0573507H	2016	06120006(,25C458C)	2009	06200058	563	06200295	565	5I4	1104	1/4A12A	563	1-21-278	1617
0573508	2016	06120006	2009	06200059	563	06200323	1104	5I5	1104	1/4A12B	563	1-21-279	1617
0573508H	2016	06120006	2009	06200060	1173	06220069	1104	5I6	1104	1/4A15	564	1-101	1104
0573509	2016	06120007	2016	06200062	1102	06220069(,1N4002TA)	1104	5I7	1114	1/4A15A	564	1-425-836	1123
0573510	2016	06120015	2016	06200065	1104		1104	5I8	1114	1/4A15B	564	1-506-319	1114
0573510H	2016	06120018	2020	06200071	1103	06220070	1102	5J10	1114	1/4AZ4.7D	565	1-530-012-11	1104
0573511	2016	06120021	2020	06200072	1104	06220070(,1N4003)	1102	5M4.7Z55	565	1/4AZ4.7D5	565	1-531-016	1104
0573511H	2016	06120025	2009	06200073	1122		1102	5M4.7Z510	565	1/4AZ4.7D10	565	1-531-027	1104
0573523	1617	06120025(,KTC388A)	2009	06200085	562	06220071	1103	5M5.1Z53	565	1/4AZ5.1D	565	1-531-05	1104
0573527	2030	06120026	2009	06200088	1104	06220071(,1N4004TA)	1103	5M8.7Z55	562	1/4AZ5.1D5	565	1-531-05-11	1104
0573529	1617	06120026	2009	06200095	1123		1103	7E05	1104	1/4AZ5.1D10	565	1-531-05-13	1104
0573533	1617	06120026	2009	06200096	1123	06220167	1122	7E1	1104	1/4AZ6.2D	561	1-531-06	1104
0573534	1617	06120030	2020	06200102	1104	06300039	1770	7E2	1104	1/4AZ6.2D5	561	1-531-06-13	1104
0573537	2030	06120033	2020	06200103	1104	06300089	1770	7E3	1104	1/4AZ6.2D10	561	1-531-06-17	1104
0573562	2041	06120033	2058	06200104	1104	06300239	1771	7E4	1104	1/4LZ4.7D	565	1-534-05-15	1104
0573570	2016	06120065	2058	06200105	1104	06300316	2413	7E5	1104	1/4LZ4.7D5	565	1-534-06-13	1104
0573607	2016	06120087	2009	06200107	1114	06400001	1067	7E6	1104	1/4LZ4.7D10	565	1-801-003	1617
0573981	1617	06120087(,25C1685Q)	2009	06200108	561	07011751	2023	7E7	1114	1/4LZ5.1D	565	1-801-003-12	2016
0575001	1123	06120087(,KTA562TM-Y)	2009	06200112	561	07227851	2009	7E8	1114	1/4LZ5.1D5	565	1-801-003-13	2016
0575001H	1123	06120087(,25C1685R)	2009	06200113	562	07312771	2068	7E10	1114	1/4LZ5.1D10	565	1-801-003-14	2016
0575002	1123	06120096	2016	06200113(,RD9.1EB)	562	08060001	1122	7J05	1104	1/4LZ6.2D	561	1-801-003-15	2016
0575002AH	1123	06120096	2016	06200115	1122	08060015	1122	7J1	1104	1/4LZ6.2D5	561	1-801-004	1617
0575002H	1123	06120151	2009	06200116	1122	08060016	1114	7J2	1104	1/4LZ6.2D10	561	1-801-004-17	1617
0575004	1123	06120153	2055	06200117	1122	08060017(,GP-30B)	1123	7J3	1104	1/4M4.7AZ	565	1-801-009-11	1000
0575005	1123	06120168	2009	06200118	1104		1143	7J5	1104	1/4M4.7AZ5	565	1-801-304-15	2016
0575005(,1N60)	1123	06120168(,GS9023-H)	2009	06200119	1103	08000017(,GP-300)	1103	7J6	1104	1/4M4.7AZ10	565	1-801-305-13	2016
0575005H	1123	06120168	2009	06200122	1104		1143	7J7	1114	1/4M5.1	565	1-801-306	2016
0575007	1123	06120168	2009	06200123	1104	08020025	1102	7J8	1114	1/4M5.1AZ	565	1-801-306-13	2016
0575019	1123	(,KTA562TM-O)	2023	06200124	1104	08020030	565	7J10	1114	1/4M5.1AZ5	565	1-801-306-14	2016
0575019H	1123	06120168(,KTA562TM-Y)	2009	06200129	561	08200043	1770	7JZ9.1	562	1/4M5.1AZ10	565	1-801-306-15	2016
0575050	1114	06120168	2023	06200130	1122	08200043(,UPC7805H)	1770	7JZ12	563	1/4M5.1AZ25	565	1-801-314	1617
0575051	1104	06120168(,KTC1815-D)	2009	06200130(,1S2473TA)	1122		1770	7JZ15	564	1/4M6.2AZ	561	1-801-314-15	1617
0575067	1123	06120169	2009		1122	08210047	2520	7Z9.1	562	1/4M6.2AZ5	561	1-801-314-16	1617
0575099	1123	06120169	2009	06200130(,MA150)	1122	08210048	2521	7Z9.1A	562	1/4M6.2AZ10	561	1-6732	2020
0576054	1104	06120169(,KTC1815-D)	2009	06200150	1122	08220033	1251	7Z9.1B	562	1/4M9.1Z	563	1-0259	1104
0576054(BIAS)	1104	06120169	2009	06200167	1122	08990208	1171	7Z9.1C	562	1/4M9.1Z5	562	1-12689	1123
0576054(SW)	1122	06120169(,KTC1815Y)	2009	06200167(,1N4148)	1122	09302090	2009	7Z9.1D	562	1/4M9.1Z10	562	1-16549	1122
0577001	1123	06120170	2009		1122	09306244	1122	7Z12	563	1/4M12Z	563	1-20363	562
0622070	1102	06120171	2009	06200167(,1S2471A)	1122	0A70	1123	7Z12A	563	1/4M12Z5	563	1-79990A	2030
01310131-0035	1104	06120172	2009	06200167(,1S2471TA)	1122	0A90	1123	7Z12B	563	1/4M12Z10	563	1-52223720	1617
02600043	1123	06120173</											

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1A0046	2020	1BZ61-OR	1104	1E535B	2016	1HC-80F	1114	1M12Z	563	1N60AM	1123	1N96A	1123
1A0051	2009	1BZ61-Y	1104	1EA100A	1114	1HC-80R	1114	1M12Z3	563	1N60B	1123	1N97	1123
1A0058	2020	1C0009	1104	1ET02	1104	1HC-100F	1114	1M12Z5	563	1N60C	1123	1N97A	1123
1A0059	2020	1C0017	1122	1ET05	1104	1HC-100R	1114	1M12Z10	563	1N60D	1123	1N98	1123
1A0063	1617	1C0025	1104	1ET1	1104	1HY40	1104	1M12Z55	563	1N60F	1123	1N98A	1123
1A0066	2030	1C0026	1104	1ET2	1104	1HY50	1104	1M12Z510	563	1N60FA1	1123	1N99	1123
1A0067	2009	1C0029	1123	1ET3	1104	1HY80	1114	1M15Z	564	1N60FD1	1123	1N99A	1123
1A0070	2009	1C0031	1104	1ET4	1104	1HY100	1114	1M15Z3	564	1N60FM	1123	1N100	1123
1A0076	2009	1C0038	561	1ET5	1104	1J1	1617	1M15Z5	564	1N60FM-1	1123	1N100A	1123
1A0077	2009	1C03	2020	1ET6	1104	1J2C1	1114 N2	1M15Z10	564	1N60FM1	1123	1N103	1123
1A0078	2009	1C05	1104	1ET7	1114	1J2Z1	1114 N1	1M15Z55	564	1N60FMX	1123	1N104	1123
1A0079	1617	1C09	2020	1ET8	1114	1JH11F	1104	1M15Z510	564	1N60G	1123	1N105	1123
1A0080	1617	1C2	1104	1ET10	1114	1JH62	1104	1M383T	703	1N60GA	1123	1N107	1123
1A0081	1617	1C4	1104	1EZ4.7D	565	1JL50	1104	1M2086	1104	1N60GB	1123	1N108	1123
1A0083	2009	1C9.1Z	562	1EZ4.7D5	565	1JL51	1104	1M8513A	1104	1N60M	1123	1N109	1123
1A0084	2009	1C9.1ZA	562	1EZ4.7D10	565	1JL52	1104	1MA4	1104	1N60M3	1123	1N111	1123
1A01	2030	1C10	1114	1EZ4.7T10	565	1JL53	1104	1MJJ6.2	561	1N60MP	1123	1N112	1123
1A03	2030	1C12Z	563	1EZ5.1	565	1JL56	1104	1MJJ6.2A	561	1N60N	1123	1N113	1123
1A06	2030	1C12ZA	563	1EZ5.1D	565	1JL57	1104	1MJJ12	563	1N60P	1123	1N114	1123
1A07	2030	1C14	2020	1EZ5.1D5	565	1JL58	1114	1MJJ12A	563	1N60R	1123	1N115	1123
1A9.1M	562	1C15A	564	1EZ5.1D10	565	1JL59	1114	1MZ9.1T5	562	1N60S	1123	1N116	1123
1A9.1MA	562	1C15Z	564	1EZ5.1T10	565	1JL63	1114	1MZ9.1T10	562	1N60SD60	1123	1N116A	1123
1A9.1MB	562	1C15ZA	564	1EZ6.2D	561	1JL64	1114	1MZ9.1T20	562	1N60T	1123	1N117	1123
1A12M	563	1C73045	2020	1EZ6.2D5	561	1JZ61	1114	1N-22	1123	1N60TPGL	1123	1N117A	1123
1A12MA	563	1C744005	2016	1EZ6.2D10	561	1JZ61-A	1104	1N25	565	1N60TV	1123	1N118	1123
1A12MB	563	1D08	564	1EZ6.2T10	561	1JZ61-B	1104	1N25A	1122	1N60TVGL	1123	1N118A	1123
1A15M	564	1D2	1104	1EZ9.1	562	1JZ61-C	1104	1N31A	1123	1N60TV-TOGL	1123	1N119	1123
1A15MA	564	1D2C1	1114 N2	1EZ9.1D	562	1JZ61-D	1104	1N34	1123	1N60TVTP	1123	1N119A	1123
1A15MB	564	1D2C1LC2	1114 N2	1EZ9.1D5	562	1JZ61-K	1104	1N34A	1123	1N60TV-TPGL	1123	1N120	1123
1A17	2030	1D2Z1	1104	1EZ9.1D10	562	1JZ61-L	1104	1N34A(AU)	1123	1N60TVTPGL	1123	1N120A	1123
1A18	2030	1D4B1	1173	1EZ9.1T10	562	1JZ61-OR	1104	1N34AM	1123	1N60Z	1123	1N125	1123
1A59	565	1D4.7	565	1EZ12	563	1JZ61-Y	1104	1N34A5	1123	1N61A	1123	1N126	1123
1A60	565	1D4.7A	565	1EZ12D	563	1K2	1143	1N34A-T	1123	1N62	1123	1N126A	1123
1A62	561	1D4.7B	565	1EZ12D5	563	1K34A	1123	1N34A-Z	1123	1N63	1123	1N127	1123
1A10425	1104	1D5.1A	565	1EZ12D10	563	1K60	1123	1N34G	1123	1N63A	1123	1N128	1123
1A11184	1104	1D6.2A	561	1EZ12T10	563	1K60A	1123	1N34GA	1123	1N64	1123	1N128A	1123
1A11306	1123	1D6.2B	561	1EZ15	564	1K60R	1123	1N34M	1123	1N64A	1123	1N132	1123
1A11671	1104	1D6.25A	561	1EZ15D	564	1K90	1123	1N34N	1123	1N64B	1123	1N133	1123
1A12214	1104	1D6.25B	561	1EZ15D5	564	1K110	1123	1N34Z	1123	1N64G	1123	1N134	1123
1A12407	1104	1D8	1114	1EZ15D10	564	1K188	1123	1N35	1123	1N64GA	1123	1N135	1122
1A12688	562	1D10	1114	1EZ15T10	564	1K188FM	1123	1N36	1123	1N64P	1123	1N136	1123
1A12689	1123	1D100	1067	1F05	1104	1K188FM-1	1123	1N38	1123	1N65	1123	1N137	1123
1A12690	1104	1D101	1067	1F2	1104	1K261	1123	1N38A	1123	1N65A	1123	1N137A	1122
1A13219	1104	1D102	1067	1F8	1114	1KF20-04	1123	1N38B	1123	1N66	1123	1N137B	1122
1A13719	1104	1D103	1067	1F10	1114	1LE11	1114	1N39A	1102	1N66A	1123	1N138	1122
1A13720	1104	1D104	1067	1F14A	1104	1LE11-A	1104	1N40	1123	1N67	1123	1N138A	1122
1A14384	1123	1D261	1104	1FM2	1104	1LE11-B	1114	1N41	1123	1N67A	1123	1N138B	1122
1A15790	1104	1DC1	1104	1G01	1123	1LE11-C	1114	1N42	1123	1N67D	1123	1N139	1123
1A16549	1122	1DG2	1123	1G2Z	1104	1LE11-D	1114	1N43	1123	1N68	1123	1N140	1123
1A16550	1104	1DH62	1102	1G2Z1	1104 N1	1LE11-K	1114	1N44	1123	1N68A	1123	1N141	1123
1A16551	1122	1DZ12	563	1G4B1	1173	1LE11-L	1114	1N45	1123	1N69	1123	1N142	1123
1AC12	563	1DZ61	1104	1G4B41	1173	1LE11-OR	1114	1N46	1123	1N69A	1123	1N143	1123
1AC12A	563	1DZ61-A	1104	1G8	1114	1LE11-Y	1114	1N46A	1123	1N70	1123	1N144	1123
1AC12B	563	1DZ61-B	1104	1G25	1123	1LE11A	1114	1N47	1123	1N70A	1123	1N145	1123
1AC15	564	1DZ61-C	1104	1G86	1123	1LE11B	1114	1N48	1123	1N71	1123	1N148	1123
1AC15A	564	1DZ61-D	1104	1GD2	1123	1LE11C	1114	1N48A	1123	1N72	1123	1N151	1104
1AC15B	564	1DZ61-K	1104	1GD4	1123	1LE11D	1114	1N48N	1123	1N72G	1123	1N152	1104
1A5027	1114	1DZ61-L	1104	1GD5X	1123	1LE11K	1114	1N49	1123	1N73	1123	1N153	1104
1A5029	1114	1DZ61-OR	1104	1GD6	1123	1LE11L	1114	1N50	1123	1N74	1123	1N158	1104
1AZ9.1	562	1DZ61-Y	1104	1GD10	1123	1LE11R	1114	1N51	1123	1N75	1123	1N169	1104
1AZ12	563	1E02	1104	1GH62	1104	1LE11Y	1114	1N52	1123	1N75A	1123	1N191	1123
1AZ15	564	1E05	1104	1GZ61	1104	1LF11	1104	1N52A	1123	1N76	1123	1N192	1123
1B05	1171	1E-1	2030	1GZ61-A	1104	1LH62	1114	1N54	1123	1N76A	1123	1N194	1122
1B05J05	1171	1E1	1104	1GZ61-B	1104	1LM340T12	1771	1N54A	1123	1N76C	1123	1N194A	1122
1B05J20	1104	1E2	1104	1GZ61-C	1104	1LZ61	1114	1N54G	1123	1N76G	1123	1N194B	1122
1B05J40	1104	1E3	1104	1GZ61-D	1104	1LZ61-A	1114	1N54GA	1123	1N81	1123	1N195	1122
1B06	2041	1E4	1104	1GZ61-K	1104	1LZ61-B	1114	1N56	1123	1N81A	1123	1N196	1122
1B08T05	1171	1E5	1104	1GZ61-L	1104	1LZ61-C	1114	1N56A	1123	1N84	1123	1N198	1123
1B08T10	1171	1E6	1104	1GZ61-OR	1104	1LZ61-D	1114	1N57	1123	1N86	1123	1N198A	1123
1B1	1171	1E7	1114	1GZ61-Y	1104	1LZ61-K	1114	1N57A	1123	1N86AG	1123	1N198B	1123
1B1.1	1173	1E8	1114	1GZZ1	1104	1LZ61-L	1114	1N58	1123	1N87	1123	1N198N	1123
1B2Z1	1104	1E9.1D	562	1HC-10F	1104	1LZ61-OR	1114	1N58A	1123	1N87A	1123	1N200	1122
1B2Z1AY	1104	1E9.1D5	562	1HC-10R	1104	1LZ61-Y	1114	1N60	1123	1N87G	1123	1N200AR	1122
1B4	1173	1E9.1D10	562	1HC-15F	1104	1M4.7AZ10	565	1N60(GA)	1123	1N87GA	1123	1N201	1122
1B4B1	1173	1E9.1Z	562	1HC-15R	1104	1M4.7Z55	565	1N60(GB)	1123	1N87S	1123	1N202	1122
1B4B41	1171	1E9.1Z5	562	1HC-20F	1104	1M4.7Z510	565	1N60/7825B	1123	1N87T	1123	1N203	1122
1B4.1	1173	1E9.1Z10	562	1HC-20R	1104	1M5.1AZ3	565	1N60-1	1123	1N88	1123	1N204	1122
1B10J20	1104	1E10	1114	1HC-25F	1104	1M5.1AZ10	565	1N60-5	1123	1N89	1123	1N205	1122
1B759	563	1E11Z	563	1HC-25R	1104	1M5.1Z510	565	1N60-FA1	1123	1N90	1123	1N206	1122
1BH62	1104	1E12Z10	563	1HC-30F	1104	1M6.2AZ3	561	1N60-FD1	1123	1N90G	1123	1N207	1122
1BZ61	1104	1E12Z	563	1HC-30R	1104	1M6.2AZ10	561	1N60-FM	1123	1N90GA	1123	1N208	1122
1BZ61-A	1104	1E12Z5	563	1HC-40F	1104	1M6.2Z510	561	1N60-M3	1123	1N91	1123	1N209	1122
1BZ61-B	1104	1E12Z10	563	1HC-40R	1104	1M9.1Z	562	1N60-5	1123	1N92	1104	1N210	1122
1BZ61-C	1104	1E15Z	564	1HC-50F	1104	1M9.1Z5	562	1N60-T	1123	1N93	1104	1N211	1122
1BZ61-D	1104	1E15Z5	564	1HC-50R	1104	1M9.1Z10	562	1N60-TF1	1123	1N93A	1104	1N212	1122
1BZ61-K	1104	1E15Z10	564	1HC-60F	1104	1M9.1Z55	562	1N60-Z	1123	1N95	1123	1N213	1122
1BZ61-L	1104	1E535A	2058	1HC-60R	1104	1M9.1Z510	562	1N60A	1123	1N96	1123	1N214	1122

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1N215	1122	1N325	1104	1N451	1123	1N508	1104	1N643A	1122	1N761A	565	1N839	1122
1N216	1122	1N325A	1104	1N452	1123	1N509	1114	1N645	1104	1N764	562	1N840	1122
1N217	1122	1N326	1104	1N453	1123	1N510	1114	1N645-1	1104	1N764-2	562	1N840M	1122
1N218	1122	1N326A	1104	1N454	1123	1N511	1104	1N645A	1103	1N764-3	562	1N841	1122
1N219	1103	1N327	1104	1N455	1123	1N512	1104	1N645B	1103	1N764-4	562	1N842	1122
1N220	1103	1N327A	1104	1N456	1122	1N513	1104	1N645J	1103	1N764A	562	1N843	1122
1N221	1103	1N328	1114	1N456A	1122	1N514	1104	1N645TH	1104	1N766-1	563	1N844	1122
1N222	1103	1N328A	1114	1N457	1122	1N515	1104	1N646	1104	1N767-1	564	1N845	1122
1N225	562	1N329	1114	1N457A	1122	1N516	1104	1N646TH	1104	1N770	1123	1N846	1104
1N225A	562	1N329A	1114	1N457AM	1104	1N517	1114	1N647	1104	1N771	1123	1N847	1104
1N251	1122	1N330	1122	1N457M	1122	1N518	1114	1N647-1	1104	1N771A	1123	1N848	1104
1N251A	1122	1N331	1122	1N458	1122	1N519	1104	1N647TH	1104	1N771B	1123	1N849	1104
1N252	1122	1N350	1122	1N458A	1122	1N520	1104	1N648	1104	1N772	1122	1N850	1104
1N252A	1122	1N351	1122	1N458AM	1122	1N521	1104	1N648TH	1104	1N772A	1123	1N851	1104
1N265	1123	1N352	1122	1N458M	1122	1N522	1104	1N649	1104	1N773	1123	1N852	1104
1N266	1123	1N353	1122	1N459	1122	1N523	1104	1N649-1	1104	1N773A	1123	1N853	1114
1N267	1123	1N354	1103	1N459A	1122	1N524	1104	1N649TH	1104	1N774	1123	1N854	1114
1N268	1123	1N355	1123	1N459M	1122	1N525	1114	1N658	1122	1N774A	1123	1N855	1114
1N270	1123	1N359	1104	1N460	1122	1N526	1114	1N658A	1122	1N775	1123	1N856	1114
1N273	1123	1N359A	1104	1N460A	1122	1N527	1123	1N658M	1122	1N776	1123	1N857	1104
1N276	1123	1N360	1104	1N460B	1122	1N530	1104	1N659	1122	1N777	1123	1N858	1104
1N277	1123	1N360A	1104	1N461	1122	1N531	1104	1N659/A	1122	1N778	1122	1N859	1104
1N278	1123	1N361	1104	1N461A	1122	1N532	1104	1N659A	1122	1N779	1122	1N860	1104
1N279	1123	1N361A	1104	1N462	1122	1N533	1104	1N660	1122	1N781	1123	1N861	1104
1N281	1123	1N362	1104	1N462A	1104	1N534	1104	1N660A	1122	1N781A	1123	1N862	1104
1N282	1123	1N362A	1104	1N462AM	1104	1N535	1104	1N661	1122	1N788	1122	1N863	1104
1N283	1123	1N363	1104	1N462M	1122	1N536	1104	1N661A	1122	1N789	1122	1N864	1114
1N285	1123	1N363A	1104	1N463	1122	1N537	1104	1N662	1122	1N789M	1122	1N865	1114
1N287	1123	1N364	1114	1N463A	1122	1N538	1104	1N662A	1122	1N790	1122	1N866	1114
1N288	1123	1N364A	1114	1N464	1122	1N539	1104	1N663	1122	1N790M	1122	1N867	1114
1N289	1123	1N365	1114	1N464A	1122	1N540	1104	1N663A	1122	1N791	1122	1N868	1104
1N290	1123	1N365A	1114	1N468	565	1N541	1123	1N663M	1122	1N791M	1122	1N869	1104
1N291	1123	1N367	1123	1N468A	565	1N542	1123	1N665	563	1N792	1122	1N870	1104
1N292	1123	1N367B	1123	1N473	565	1N542A	1123	1N666	564	1N792M	1122	1N871	1104
1N294	1123	1N368	1104	1N473A	565	1N542MP	1123	1N673	1104	1N793	1122	1N872	1104
1N294A	1123	1N376	565	1N473B	565	1N547	1104	1N674	565	1N793M	1122	1N873	1104
1N295	1123	1N377	561	1N476	1123	1N548	1114	1N675	561	1N794	1122	1N874	1104
1N295A	1123	1N379	1122	1N477	1123	1N560	1114	1N676	1104	1N795	1122	1N875	1114
1N2955	1123	1N380	1122	1N478	1123	1N561	1114	1N677	1104	1N796	1122	1N876	1114
1N295X	1123	1N381	1122	1N479	1123	1N564	1123	1N678	1104	1N797	1122	1N877	1114
1N296	1123	1N382	1122	1N480	1123	1N568	1123	1N679	1104	1N798	1122	1N878	1114
1N297	1123	1N383	1122	1N480B	1104	1N569	1123	1N681	1104	1N799	1122	1N879	1104
1N297A	1123	1N384	1122	1N482	1122	1N571	1123	1N682	1104	1N800	1122	1N880	1104
1N298	1123	1N385	1122	1N482A	1122	1N596	1104	1N683	1104	1N801	1122	1N881	1104
1N298A	1123	1N386	1122	1N482AM	1122	1N597	1114	1N684	1104	1N802	1122	1N881B	1104
1N300	1122	1N387	1122	1N482B	1122	1N598	1114	1N685	1104	1N803	1122	1N882	1104
1N300A	1122	1N388	1122	1N482BM	1122	1N599	1104	1N686	1104	1N804	1122	1N883	1104
1N300B	1122	1N389	1122	1N482C	1122	1N599A	1104	1N687	1104	1N805	1123	1N884	1104
1N301	1122	1N390	1122	1N482M	1122	1N600	1104	1N689	1104	1N806	1122	1N885	1104
1N301A	1122	1N391	1122	1N482TH	1104	1N600A	1104	1N690	1122	1N807	1122	1N886	1114
1N301B	1122	1N392	1122	1N483	1122	1N600KB	1122	1N691	1122	1N808	1122	1N887	1114
1N302	1122	1N393	1122	1N483A	1122	1N601	1104	1N692	1122	1N809	1122	1N888	1114
1N302A	1122	1N394	1122	1N483AM	1122	1N601A	1104	1N693	1122	1N810	1122	1N889	1114
1N302B	1122	1N400	1104	1N483B	1122	1N601S34	1123	1N695	1123	1N811	1122	1N890	1122
1N303	1122	1N400B	1104	1N483M	1122	1N602	1104	1N695A	1123	1N811M	1122	1N890M	1122
1N303A	1122	1N417	1123	1N483C	1122	1N602A	1104	1N696	1122	1N812	1122	1N891	1122
1N303B	1122	1N418	1123	1N483M	1104	1N603	1104	1N697	1122	1N812M	1122	1N892	1122
1N304	1123	1N419	1123	1N483TH	1104	1N603A	1104	1N698	1123	1N813	1122	1N897	1122
1N305	1123	1N429	561	1N484	1122	1N604	1104	1N699	1123	1N813M	1122	1N898	1122
1N306	1123	1N431	1122	1N484A	1122	1N604A	1104	1N705	565	1N814	1122	1N899	1122
1N307	1123	1N432	1122	1N484B	1122	1N605	1104	1N705A	565	1N814M	1122	1N900	1122
1N308	1123	1N432A	1122	1N484C	1122	1N605A	1104	1N709	561	1N815	1122	1N901	1122
1N309	1123	1N432B	1122	1N484TH	1104	1N606	1104	1N709A	561	1N815M	1122	1N902	1122
1N310	1123	1N433	1122	1N485	1122	1N606A	1104	1N709B	561	1N816	1122	1N903	1122
1N312	1123	1N433A	1122	1N485A	1122	1N616	1123	1N713	562	1N817	1122	1N903/A	1122
1N313	1123	1N433B	1122	1N485B	1122	1N617	1123	1N713A	562	1N818	1122	1N903A	1122
1N314	1123	1N434	1122	1N485C	1122	1N618	1123	1N713B	562	1N818M	1122	1N903AM	1122
1N315	1104	1N434A	1122	1N485TH	1104	1N619	1122	1N716	563	1N819	1104	1N903M	1122
1N315A	1104	1N434B	1122	1N486	1122	1N622	1122	1N716A	563	1N821	561	1N904	1122
1N316	1104	1N435	1123	1N486A	1122	1N625	1122	1N716B	563	1N821A	561	1N904/A	1122
1N316A	1104	1N440	1104	1N486B	1122	1N625A	1122	1N718	564	1N822	561	1N904A	1122
1N317	1104	1N440B	1104	1N486TH	1104	1N625M	1122	1N718A	564	1N822A	561	1N904AM	1122
1N317A	1104	1N441	1104	1N487TH	1104	1N626	1122	1N718B	564	1N822AG	561	1N904M	1122
1N318	1104	1N441B	1104	1N488TH	1104	1N626A	1122	1N750	565	1N823	561	1N905	1122
1N318A	1104	1N442	1104	1N490	1123	1N626M	1122	1N750A	565	1N823A	561	1N905/A	1122
1N319	1104	1N442B	1104	1N492	563	1N627	1122	1N751	565	1N824	561	1N905A	1122
1N319A	1104	1N443	1104	1N493	563	1N627A	1122	1N751A	565	1N824A	561	1N905AM	1122
1N320	1104	1N443B	1104	1N497	1123	1N628	1122	1N753	561	1N825	561	1N905M	1122
1N320A	1104	1N444	1104	1N498	1123	1N628A	1122	1N753A	561	1N825A	561	1N906	1122
1N321	1114	1N444B	1104	1N499	1123	1N629	1122	1N757	562	1N827	561	1N906/A	1122
1N321A	1114	1N445	1104	1N500	1123	1N629A	1122	1N757A	562	1N827A	561	1N906A	1122
1N322	1114	1N445B	1104	1N501	1123	1N631	1123	1N759	563	1N829	561	1N906AM	1122
1N322A	1114	1N446	1123	1N503	1104	1N632	1123	1N759A	563	1N829A	561	1N906M	1122
1N323	1104	1N447	1123	1N504	1104	1N633	1122	1N760	1122	1N835	1123	1N907	1122
1N323A	1104	1N448	1123	1N505	1104	1N636	1123	1N761	565	1N837	1122	1N907/A	1122
1N324	1104	1N449	1123	1N506	1104	1N636A	1123	1N761-1	565	1N837A	1122	1N907A	1122
1N324A	1104	1N450	1123	1N507	1104	1N643	1122	1N761-2	565	1N838	1122	1N907AM	1122

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1N907M	1122	1N995M	1123	1N1440	1104	1N1766	561	1N2076	1104	1N2615	1104	1N3184	1104
1N908	1122	1N996	1123	1N1441	1104	1N1766A	561	1N2077	1104	1N2616	1114	1N3185	1114
1N908/A	1122	1N997	1122	1N1442	1104	1N1770	562	1N2078	1104	1N2617	1114	1N3186	1114
1N908A	1122	1N998	1104	1N1443	1114	1N1770A	562	1N2079	1104	1N2620	562	1N3189	1104
1N908AM	1122	1N999	1122	1N1443A	1114	1N1773	563	1N2080	1104	1N2620A	562	1N3190	1104
1N908M	1122	1N1008	1104	1N1443B	1114	1N1773A	563	1N2081	1104	1N2620B	562	1N3191	1104
1N909	1123	1N1028	1104	1N1484	565	1N1775	564	1N2082	1104	1N2621	562	1N3193	1104
1N910	1123	1N1029	1104	1N1485	561	1N1775A	564	1N2083	1104	1N2621A	562	1N3194	1104
1N911	1123	1N1030	1104	1N1486	1104	1N1779	561	1N2084	1104	1N2621B	562	1N3195	1104
1N914	1122	1N1031	1104	1N1487	1104	1N1839	1122	1N2085	1104	1N2622	562	1N3196	1114
1N914/A/B	1122	1N1032	1104	1N1488	1104	1N1840	1122	1N2086	1104	1N2622A	562	1N3197	1122
1N914A	1122	1N1033	1104	1N1489	1104	1N1841	1122	1N2088	1104	1N2622B	562	1N3203	1104
1N914B	1122	1N1052	1104	1N1490	1104	1N1842	1122	1N2089	1104	1N2623	562	1N3204	1123
1N914F	1122	1N1053	1104	1N1491	1104	1N1843	1122	1N2090	1104	1N2623A	562	1N3206	1122
1N914M	1122	1N1054	1114	1N1492	1104	1N1844	1122	1N2091	1104	1N2623B	562	1N3207	1122
1N915	1122	1N1055	1143	1N1508	565	1N1845	1122	1N2092	1104	1N2624	562	1N3221	1114
1N916	1122	1N1056	1114	1N1508A	565	1N1846	1122	1N2093	1104	1N2624A	562	1N3223	1122
1N916A	1122	1N1057	1114	1N1513	563	1N1847	1122	1N2094	1104	1N2624B	562	1N3227	1143
1N916B	1122	1N1081	1104	1N1513A	563	1N1848	1122	1N2095	1104	1N2638	1104	1N3228	1143
1N917	1122	1N1081A	1104	1N1514	564	1N1849	1103	1N2096	1104	1N2650	1104	1N3237	1141
1N919	1122	1N1082	1104	1N1514A	564	1N1850	1103	1N2103	1104	1N2653	1114	1N3238	1143
1N920	1122	1N1082A	1104	1N1519	565	1N1877	563	1N2104	1104	1N2790	562	1N3239	1143
1N921	1122	1N1083	1104	1N1519A	565	1N1877A	563	1N2105	1104	1N2801	1123	1N3240	1144
1N922	1122	1N1083A	1104	1N1524	563	1N1878	564	1N2106	1104	1N2858	1104	1N3246	1141
1N923	1122	1N1084	1104	1N1524A	563	1N1878A	564	1N2107	1104	1N2858A	1141	1N3247	1143
1N924	1122	1N1084A	1104	1N1525	564	1N1907	1104	1N2108	1104	1N2859	1143	1N3248	1143
1N925	1122	1N1093	1123	1N1525A	564	1N1908	1104	1N2115	1104	1N2859A	1143	1N3249	1144
1N926	1122	1N1095	1104	1N1530	562	1N1909	1104	1N2116	1104	1N2860	1104	1N3253	1104
1N927	1122	1N1096	1104	1N1530A	562	1N1910	1144	1N2117	1104	1N2860A	1143	1N3254	1104
1N928	1122	1N1100	1104	1N1556	1143	1N1911	1104	1N2163	562	1N2861	1104	1N3255	1104
1N929	1122	1N1101	1104	1N1557	1143	1N1912	1104	1N2163A	562	1N2861A	1144	1N3256	1114
1N930	1122	1N1102	1104	1N1558	1144	1N1913	1104	1N2164	562	1N2862	1104	1N3257	1122
1N931	1122	1N1103	1104	1N1559	1144	1N1914	1114	1N2164A	562	1N2862A	1144	1N3258	1122
1N932	1122	1N1104	1104	1N1561	1123	1N1915	1114	1N2165	562	1N2863	1104	1N3277	1104
1N933	1122	1N1104R	1104	1N1562	1123	1N1916	1114	1N2165A	562	1N2864	1104	1N3278	1104
1N934	1122	1N1105	1104	1N1563	1143	1N1928	565	1N2166	562	1N2878	1114	1N3279	1104
1N935	562	1N1108	1114	1N1563A	1104	1N1928A	565	1N2166A	562	1N2879	1114	1N3280	1114
1N935A	562	1N1122A	1104	1N1564	1143	1N1933	563	1N2167	562	1N2880	1114	1N3281	1114
1N935B	562	1N1169	1104	1N1564A	1104	1N1933A	563	1N2167A	562	1N2881	1114	1N3282	1114
1N936	562	1N1169A	1104	1N1565	1144	1N1934	564	1N2168	562	1N2882	1114	1N3287	1123
1N936A	562	1N1217	1114	1N1565A	1104	1N1934A	564	1N2168A	562	1N2883	1114	1N3287N	1123
1N936B	562	1N1217A	1114	1N1566	1144	1N1934B	564	1N2169	562	1N3019	562	1N3287W	1123
1N937	562	1N1217B	1114	1N1566A	1104	1N1955	565	1N2169A	562	1N3019A	562	1N3298	1104
1N937A	562	1N1218	1114	1N1567A	1104	1N1955A	565	1N2170	562	1N3019B	562	1N3381	1104
1N937B	562	1N1218A	1114	1N1568A	1104	1N1960	563	1N2170A	562	1N3022	563	1N3382	1122
1N938	562	1N1218B	1114	1N1617	1143	1N1960A	563	1N2171	562	1N3022A	563	1N3383	1101
1N938A	562	1N1219	1114	1N1617AR	1143	1N1960B	563	1N2171A	562	1N3022B	563	1N3384	1104
1N938B	562	1N1219A	1114	1N1618	1104	1N1982	565	1N2181	1104	1N3024	564	1N3385	1104
1N939	562	1N1219B	1114	1N1619	1104	1N1982A	565	1N2323	1104	1N3024A	564	1N3386	1102
1N939A	562	1N1220	1143	1N1620	1104	1N1987	563	1N2390	1141	1N3024B	564	1N3387	1102
1N939B	562	1N1220A	1143	1N1630	1122	1N1987A	563	1N2391	1143	1N3062	1122	1N3388	1103
1N940	562	1N1220B	1143	1N1638	1122	1N1987B	563	1N2392	1143	1N3063	1122	1N3389	1103
1N940A	562	1N1221	1144	1N1644	1141	1N1988	564	1N2393	1144	1N3064	1122	1N3390	1103
1N940B	562	1N1221A	1144	1N1645	1143	1N1988A	564	1N2394	1144	1N3065	1122	1N3403	563
1N941	563	1N1221B	1144	1N1646	1143	1N1988B	564	1N2399	1141	1N3066	1122	1N3404	564
1N941A	563	1N1222	1144	1N1647	1143	1N2013	1141	1N2400	1143	1N3067	1122	1N3411	561
1N941B	563	1N1222A	1144	1N1648	1144	1N2014	1143	1N2401	1143	1N3068	1122	1N3416	563
1N942	563	1N1222B	1144	1N1649	1144	1N2015	1143	1N2402	1144	1N3069	1122	1N3417	564
1N942A	563	1N1225	1114	1N1650	1144	1N2016	1143	1N2403	1144	1N3069M	1122	1N3465	1123
1N942B	563	1N1225A	1114	1N1651	1144	1N2017	1144	1N2408	1141	1N3070	1122	1N3466	1123
1N943	563	1N1225B	1114	1N1692	1104	1N2018	1144	1N2409	1143	1N3071	1122	1N3467	1123
1N943A	563	1N1226	1114	1N1693	1104	1N2019	1144	1N2410	1143	1N3072	1141	1N3468	1123
1N943B	563	1N1226A	1114	1N1694	1104	1N2020	1144	1N2411	1144	1N3073	1143	1N3469	1123
1N944	563	1N1226B	1114	1N1695	1104	1N2026	1141	1N2412	1144	1N3074	1143	1N3470	1123
1N944A	563	1N1251	1104	1N1696	1104	1N2032	565	1N2417	1114	1N3075	1143	1N3471	1122
1N944B	563	1N1252	1104	1N1697	1104	1N2032-1	565	1N2418	1114	1N3076	1144	1N3473	1104
1N945	563	1N1253	1104	1N1701	1104	1N2032-2	565	1N2419	1114	1N3077	1144	1N3474	1104
1N945A	563	1N1254	1104	1N1702	1104	1N2032A	565	1N2420	1114	1N3078	1144	1N3475	1104
1N945B	563	1N1255	1104	1N1703	1104	1N2033	561	1N2421	1114	1N3079	1144	1N3476	1114
1N946	563	1N1255A	1104	1N1704	1104	1N2033-2	561	1N2422	1114	1N3082	1143	1N3482	1123
1N946A	563	1N1256	1104	1N1705	1104	1N2035	562	1N2423	1114	1N3083	1144	1N3483	1123
1N946B	563	1N1257	1104	1N1706	1104	1N2035-2	562	1N2424	1114	1N3094	1104	1N3484	1123
1N947	1104	1N1258	1114	1N1707	1104	1N2035-3	562	1N2425	1114	1N3108	562	1N3486	1143
1N948	1122	1N1259	1114	1N1708	1104	1N2035-4	562	1N2482	1104	1N3110	1123	1N3496	561
1N949	1123	1N1260	1114	1N1709	1104	1N2037-1	563	1N2483	1104	1N3112	2030	1N3497	561
1N960	562	1N1261	1114	1N1710	1104	1N2037A	563	1N2484	1104	1N3121	1123	1N3498	561
1N960A	562	1N1313	562	1N1711	1104	1N2038-1	564	1N2485	1104	1N3122	1123	1N3499	561
1N960B	562	1N1313A	562	1N1712	1104	1N2069	1104	1N2486	1104	1N3123	1122	1N3500	561
1N963	563	1N1337-5	1104	1N1713	563	1N2069A	1104	1N2487	1104	1N3124	1122	1N3510	565
1N963A	563	1N1391	1123	1N1730	1114	1N2070	1104	1N2488	1104	1N3125	1123	1N3511	565
1N963B	563	1N1406	1104	1N1730A	1114	1N2070A	1104	1N2489	1104	1N3146	1123	1N3513	561
1N965	564	1N1407	1114	1N1735	561	1N2071	1104	1N2609	1104	1N3147	1122	1N3517	562
1N965A	564	1N1408	1114	1N1736	563	1N2071A	1104	1N2610	1104	1N3148	562	1N3520	563
1N965B	564	1N1415	1104	1N1736A	563	1N2072	1104	1N2611	1104	1N3160	1104	1N3522	564
1N993	1122	1N1426	563	1N1763	1104	1N2073	1104	1N2612					

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1N3546	1104	1N3728	1103	1N4093	1122	1N4368	1104	1N4583B	561	1N4776A	562	1N5194	1122
1N3547	1104	1N3731	1104	1N4095	565	1N4369	1104	1N4584	561	1N4777	562	1N5195	1122
1N3548	1104	1N3732	565	1N4102	562	1N4375	1122	1N4584A	561	1N4777A	562	1N5196	1122
1N3549	1104	1N3736A	561	1N4103	562	1N4376	1122	1N4585GP	1114	1N4778	562	1N5197	1141
1N3550	1122	1N3748	1143	1N4103A	562	1N4382	1122	1N4586GP	1114	1N4778A	562	1N5199	1143
1N3553	561	1N3749	1144	1N4106	563	1N4383	1104	1N4606	1122	1N4779	562	1N5200	1144
1N3559	1123	1N3753	1123	1N4106A	563	1N4383GP	1102	1N4606R	1122	1N4779A	562	1N5208	1122
1N3564	1123	1N3754	1104	1N4109	564	1N4384	1104	1N4607	1122	1N4780	562	1N5209	1122
1N3575	1122	1N3755	1143	1N4139	1141	1N4384GP	1103	1N4608	1122	1N4780A	562	1N5210	1122
1N3576	1122	1N3756	1144	1N4140	1143	1N4385	1104	1N4610	1122	1N4781	562	1N5211	1104
1N3577	1122	1N3757	1143	1N4141	1143	1N4385GP	1104	1N4624	565	1N4781A	562	1N5212	1104
1N3578	1103	1N3758	1144	1N4142	1144	1N4389	1122	1N4625	565	1N4782	562	1N5213	1104
1N3579	1103	1N3769	1123	1N4147	1122	1N4392	1122	1N4627	561	1N4782A	562	1N5214	1114
1N3580	563	1N3773	1123	1N4148	1122	1N4395	1122	1N4631	562	1N4783	562	1N5215	1104
1N3580A	563	1N3782	563	1N4148(AU)	1122	1N4395A	1122	1N4634	563	1N4783A	562	1N5216	1104
1N3580B	563	1N3782A	563	1N4148F	1122	1N4403	562	1N4636	564	1N4784	562	1N5217	1104
1N3581	563	1N3782B	563	1N4148TD	1122	1N4403A	562	1N4653	565	1N4784A	562	1N5218	1114
1N3581A	563	1N3784	563	1N4148TE	1122	1N4403B	562	1N4654	565	1N4816	1141	1N5219	1122
1N3581B	563	1N3784A	563	1N4148V	1122	1N4406	1122	1N4656	561	1N4817	1114	1N5220	1122
1N3582	563	1N3784B	563	1N4149	1122	1N4406A	563	1N4660	562	1N4818	1114	1N5230	565
1N3582A	563	1N3825	565	1N4150	1122	1N4406B	563	1N4663	563	1N4819	1144	1N5230A	565
1N3582B	563	1N3825A	565	1N4150V	1122	1N4408	564	1N4665	564	1N4820	1144	1N5230B	565
1N3583	563	1N3826	565	1N4151	1122	1N4408A	564	1N4688	565	1N4823	1104	1N5231	565
1N3583A	563	1N3826A	565	1N4152	1122	1N4408B	564	1N4689	565	1N4824	1104	1N5231A	565
1N3583B	563	1N3828	561	1N4153	1122	1N4444	1122	1N4691	561	1N4825	1104	1N5231B	565
1N3584	563	1N3828A	561	1N4154	1122	1N4446	1122	1N4695	562	1N4827	1122	1N5234	561
1N3584A	563	1N3855A	562	1N4156	1122	1N4447	1122	1N4696	562	1N4828	1122	1N5234A	561
1N3584B	563	1N3864	1122	1N4157	1122	1N4448	1122	1N4699	563	1N4829	1122	1N5234B	561
1N3592	1123	1N3865	1101	1N4161	562	1N4449	1122	1N4702	564	1N4830	1122	1N5238	562
1N3593	1122	1N3866	1143	1N4161A	562	1N4450	1122	1N4718	1101	1N4861	1122	1N5238-BRL	562
1N3594	1122	1N3867	1144	1N4161B	562	1N4451	1122	1N4719	1141	1N4862	1122	1N5238A	562
1N3595	1122	1N3872	1122	1N4164	563	1N4453	1122	1N4719R	1114	1N4863	1122	1N5238B	562
1N3596	1122	1N3873	1122	1N4164A	563	1N4454	1122	1N4720	1143	1N4864	1122	1N5239	562
1N3598	1122	1N3874	1101	1N4164B	563	1N4455	1122	1N4720R	1114	1N4933	1104	1N5239A	562
1N3599	1122	1N3875	1104	1N4166	564	1N4499	561	1N4721	1143	1N4933GP	1104	1N5239B	562
1N3600	1122	1N3894	1103	1N4166A	564	1N4502	1123	1N4721R	1143	1N4934	1104	1N5242	563
1N3601	1122	1N3895	1103	1N4166B	564	1N4512	1101	1N4722	1144	1N4934GP	1104	1N5242A	563
1N3602	1122	1N3914	1101	1N4242	1122	1N4517	1143	1N4722R	1114	1N4935	1104	1N5242B	568
1N3603	1122	1N3929	1114	1N4243	1122	1N4523	1123	1N4723R	1114	1N4935GP	1104	1N5245	564
1N3604	1122	1N3938	1143	1N4244	1122	1N4531	1122	1N4724R	1114	1N4936	1104	1N5245A	564
1N3605	1122	1N3929	1144	1N4245	1102	1N4532	1122	1N4725R	1114	1N4936GP	1104	1N5245B	564
1N3606	1122	1N3947	561	1N4245GP	1102	1N4533	1122	1N4726	1122	1N4937	1104	1N5282	1122
1N3607	1122	1N3952	1143	1N4246	1104	1N4534	1122	1N4727	1122	1N4937GP	1104	1N5315	1122
1N3608	1122	1N3953	1122	1N4246GP	1103	1N4536	1122	1N4732	565	1N4938	1122	1N5316	1122
1N3609	1122	1N3954	1122	1N4247	1104	1N4541	1103	1N4732A	565	1N4942	1104	1N5317	1122
1N3611	1102	1N3956	1122	1N4247GP	1104	1N4542	1103	1N4733	565	1N4942GP	1104	1N5318	1122
1N3611GP	1102	1N3957	1114	1N4248	1114	1N4545	1114	1N4735	561	1N4943	1114	1N5319	1122
1N3612	1103	1N3957GP	1114	1N4248GP	1114	1N4547	1122	1N4735A	561	1N4944	1104	1N5320	1122
1N3612GP	1103	1N3981	1143	1N4249	1114	1N4548	1122	1N4739	562	1N4944GP	1104	1N5324	561
1N3613	1104	1N3982	1144	1N4249GP	1114	1N4565	561	1N4739A	562	1N4946	1104	1N5324A	561
1N3613GP	1104	1N3991	1123	1N4250	1114	1N4565A	561	1N4742	563	1N4946GP	1104	1N5391	1141
1N3614	1114	1N4001	1101	1N4251	1114	1N4566	561	1N4742A	563	1N4949	1122	1N5391GP	1114
1N3614GP	1114	1N4001A	1101	1N4297	562	1N4566A	561	1N4744	564	1N4950	1122	1N5392	1114
1N3621	1122	1N4001G	1101	1N4297A	562	1N4567	561	1N4744A	564	1N4951	1122	1N5392G	1143
1N3621A	1122	1N4001GP	1101	1N4298	562	1N4567A	561	1N4745	562	1N4952	1122	1N5392GP	1114
1N3629	1104	1N4002	1104	1N4298A	562	1N4568	561	1N4765A	562	1N4997	1141	1N5393	1143
1N3630	1104	1N4002A	1104	1N4299B	563	1N4568A	561	1N4765B	562	1N4997R	1114	1N5393GP	1114
1N3631	1104	1N4002G	1104	1N4300B	563	1N4569	561	1N4766	562	1N4998	1143	1N5394	1144
1N3632	1104	1N4002GP	1104	1N4302	562	1N4569A	561	1N4766A	562	1N4998R	1114	1N5394GP	1114
1N3633	1104	1N4002L	1104	1N4302A	562	1N4570	561	1N4766B	562	1N4999	1143	1N5395	1144
1N3634	1104	1N4002M	1104	1N4303B	563	1N4570A	561	1N4767	562	1N4999R	1114	1N5395GP	1114
1N3635	1114	1N4003	1102	1N4304B	563	1N4571	561	1N4767A	562	1N5000	1144	1N5396GP	1114
1N3636	1114	1N4003A	1102	1N4305	1122	1N4571A	561	1N4767B	562	1N5000R	1114	1N5397GP	1114
1N3637	1114	1N4003G	1102	1N4305F	1122	1N4572	561	1N4768	562	1N5001R	1114	1N5398GP	1114
1N3638	1114	1N4003GP	1102	1N4306	1122	1N4572A	561	1N4768A	562	1N5002R	1114	1N5399GP	1114
1N3639	1104	1N4003PX	1102	1N4307	1122	1N4573	561	1N4768B	562	1N5003R	1114	1N5400	1141
1N3640	1104	1N4003RL	1102	1N4308	1122	1N4573A	561	1N4769	562	1N5004	1143	1N5401	1143
1N3641	1104	1N4003TA	1102	1N4309	1122	1N4574	561	1N4769A	562	1N5005	1143	1N5402	1143
1N3642	1114	1N4004	1103	1N4311	1122	1N4574A	561	1N4769B	562	1N5006	1144	1N5403	1144
1N3643	1114	1N4004A	1103	1N4315	1122	1N4575	561	1N4770	562	1N5054	1114	1N5404	1144
1N3653	1122	1N4004G	1103	1N4318	1122	1N4575A	561	1N4770A	562	1N5055	1143	1N5413	1122
1N3654	1122	1N4004GP	1103	1N4322	1122	1N4576	561	1N4770B	562	1N5056	1143	1N5414	1122
1N3658	1143	1N4004TA	1103	1N4326	562	1N4576A	561	1N4771	562	1N5057	1144	1N5415	1101
1N3657	1144	1N4005	1104	1N4326A	562	1N4577	561	1N4771A	562	1N5058	1144	1N5420	1114
1N3666	1122	1N4005GP	1104	1N4326B	562	1N4577A	561	1N4771B	562	1N5059GP	1102	1N5426	1122
1N3668	1122	1N4006	1114	1N4329	563	1N4578	561	1N4772	562	1N5060GP	1103	1N5522	565
1N3669	1104	1N4006GP	1114	1N4329A	563	1N4578A	561	1N4772A	562	1N5061GP	1104	1N5522A	565
1N3678	562	1N4007	1114	1N4329B	563	1N4579	561	1N4772B	562	1N5062GP	1114	1N5522B	565
1N3678A	562	1N4007GP	1114	1N4331	564	1N4579A	561	1N4773	562	1N5170	1114	1N5523	565
1N3678B	562	1N4009	1122	1N4331A	564	1N4580	561	1N4773A	562	1N5171	1141	1N5523A	565
1N3681	563	1N4010	561	1N4331B	564	1N4580A	561	1N4773B	562	1N5172	1114	1N5523B	565
1N3681A	563	1N4011	1114	1N4361	1114	1N4581	561	1N4774	562	1N5173	1144	1N5525	561
1N3681B	563	1N4043	1122	1N4363	1122	1N4581A	561	1N4774A	562	1N5174	1144	1N5525A	561
1N3683	564	1N4087	1122	1N4364	1104	1N4582	561	1N4774B	562	1N5177	1114	1N5525B	561
1N368													

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1N5532	563	1N5855	562	1N261-B	1114	1R5J261-M	1114	1S50	1123	1S116	1104	1S200	1104
1N5532A	563	1N5855A	562	1N261-C	1114	1R5J261-L	1114	1S51	565	1S117	1114	1S209	1104
1N5532B	563	1N5855B	562	1N261-D	1114	1R5J261-OR	1114	1S55	562	1S118	1104	1S210	1114
1N5532C	563	1N5858	563	1N261-K	1114	1R5J261-V	1114	1S56	562	1S119	1104	1S210/2S16A	1114
1N5535	564	1N5858A	563	1N261-L	1114	1R5.1	565	1S58	1123	1S120	1104	1S211	1114
1N5535A	564	1N5858B	563	1N261-OR	1114	1R9	1104	1S60	1123	1S121	1104	1S211/2S18A	1114
1N5535B	564	1N5861	564	1N261-Y	1114	1R9D	1104	1S60(RECT)	1104	1S121(RECT)	1104	1S211A	1114
1N5550	1114	1N5861A	564	1P20-0006	2030	1R9H	1104	1S60P	1123	1S122	1104	1S212	562
1N5551	1114	1N5861B	564	1P20-0029	2016	1R9I	1104	1S61	1104	1S123	1104	1S213	562
1N5552	1114	1N5898	1141	1P20-0032	2009	1R9J	1104	1S62	1104	1S124	1104	1S214	562
1N5562	562	1N5899	1143	1P20-0034	2016	1R9L	1104	1S63	1104	1S125	1104	1S217	562
1N5562A	562	1N5900	1143	1P20-0036	2020	1R9P	1104	1S64	1104	1S126	1104	1S218	1122
1N5563B	562	1N5901	1144	1P20-0037	2016	1R9U	1104	1S65	1104	1S127	1123	1S224	562
1N5565	563	1N5992	565	1P20-0041	2009	1R9.1A	562	1S66	1104	1S128	1123	1S227	563
1N5565A	563	1N5992A	565	1P20-0046	2023	1R9.1B	562	1S71	1104	1S128FM	1123	1S230	564
1N5565B	563	1N5992B	565	1P20-0060	1123	1R10D3K	1122	1S72	1123	1S129	1123	1S268AA,T	1104
1N5567	564	1N5993	565	1P20-0061	1122	1R12	563	1S73	1123	1S130	1123	1S268T	1104
1N5567A	564	1N5993A	565	1P20-0083	2020	1R12A	563	1S73A	1123	1S131	1122	1S301.5	564
1N5567B	564	1N5995	561	1P20-0086	565	1R12B	563	1S74	1123	1S132	1122	1S304	562
1N5605	1122	1N5995A	561	1P20-0110	2016	1R15	564	1S75	1123	1S133	562	1S306	1122
1N5606	1122	1N5995B	561	1P20-0120	1104	1R15A	564	1S77	1123	1S134	565	1S306M	1122
1N5607	1122	1N5999	562	1P20-0122	2009	1R15B	564	1S77H	1123	1S136(RECT)	1104	1S307	1122
1N5608	1122	1N5999A	562	1P20-0159	2023	1R81	1104	1S78	1123	1S136Q	1103	1S309	1104
1N5609	1122	1N5999B	562	1P20-0213	2023	1R90	1104	1S78H	1123	1S138	562	1S310	1104
1N5610	1122	1N6002	563	1P20-0214	1617	1R96	1114	1S79	1123	1S138(RECT)	1114	1S310H	1104
1N5614	1104	1N6002A	563	1P60F	1123	1R106B1	1067	1S79H	1123	1S138(ZENER)	562	1S311H	1104
1N5614GP	1104	1N6002B	563	1P100	1067	1R106B1-C	1067	1S80	1123	1S139	562	1S311N	1104
1N5615	1104	1N6004	564	1P101	1067	1R106B2	1067	1S81	1104	1S141	563	1S312	1104
1N5615GP	1104	1N6004A	564	1P102	1067	1R106B3	1067	1S82	1123	1S142	564	1S312A	1104
1N5616	1104	1N6004B	564	1P103	1067	1R106B4	1067	1S83	1104	1S144	1122	1S312H	1104
1N5616GP	1104	1N6083	565	1P541	1123	1R106B41	1067	1S84	1122	1S147	1104	1S313	1104
1N5617	1104	1N6083A	565	1P542	1123	1R106D1	1020	1S84H	1104	1S148	1104	1S313H	1104
1N5617GP	1104	1N6083B	565	1P643	1141	1R106D2	1020	1S85V	1104	1S149	1104	1S314	1104
1N5624	1143	1N6084	565	1P644	1143	1R106D3	1020	1S87	1123	1S150	1104	1S314H	1104
1N5624GP	1143	1N6084A	565	1P645	1144	1R106D4	1020	1S88	1123	1S155	1122	1S314N	1104
1N5625	1144	1N6084B	565	1P646	1144	1R106D41	1020	1S89	1122	1S155-1	1122	1S315	1104
1N5625GP	1144	1N6086	561	1P647	1144	1R914	1122	1S90	1104	1S180	1122	1S315FR1MD	1114
1N5679	1104	1N6086A	561	1R0	1122	1RC5	1067	1S90R	1122	1S180/5GB	1104	1S315H	1104
1N5680	1104	1N6086B	561	1R01	1104	1RC10	1067	1S91	1104	1S180-M	1104	1S316	1114
1N5711	1122	1N6090	562	1R0E	1114	1RC20	1067	1S91R	1104	1S180B	1122	1S317	1114
1N5713	1122	1N6090A	562	1R0F	1114	1RC30	1020	1S92	1104	1S181	1122	1S318	1123
1N5719	1122	1N6090B	562	1R0H	1104	1RC40	1020	1S92R	1104	1S181-M	1104	1S319	1123
1N5720	1122	1N33974	562	1R1D	1104	1RE10	1104	1S93	1104	1S181FA	1122	1S320	565
1N5721	1122	1N36001	1122	1R1K	1104	1ROE	1122	1S93/SGJ	1104	1S182	1122	1S322	1122
1N5726	1122	1N70980	1122	1R2	1122	1ROF	1104	1S93R	1104	1S182-M	1104	1S323	1123
1N5727	1122	1N601000-17	1123	1R2A	1104	1ROH	1104	1S94	1104	1S183	1104	1S324	1122
1N5728	565	1NA4	1123	1R2D	1104	1R-TR24	2016	1S94R	1104	1S183-M	1104	1S325	1122
1N5728B	565	1NA4G	1123	1R2E	1104	1R-TR25	2016	1S95	1104	1S184	1122	1S326	1122
1N5729	565	1NA61	1123	1R3A	1122	1RTR51	2016	1S95R	1104	1S185	1123	1S327	1104
1N5729B	565	1NC61684	1104	1R3D	1104	1S005	1104	1S96	1114	1S186	1123	1S328	1104
1N5731	561	1NE11	1114	1R3G	1104	1S016	1104	1S96R	1114	1S186(FM)	1123	1S329	1114
1N5731B	561	1NE11-OR	1114	1R3J	1104	1S020	1143	1S97	1114	1S186FM	1123	1S330	565
1N5735B	562	1NE11-A	1114	1R5B	1104	1S021	1143	1S97R	1114	1S186G	1104	1S330A	565
1N5736B	563	1NE11-B	1114	1R5BZ61	1114	1S023	1144	1S98	1114	1S187	1123	1S-331	561
1N5738	563	1NE11-C	1114	1R5BZ61-A	1114	1S030	1141	1S98R	1114	1S187S	1123	1S331	561
1N5738B	563	1NE11-D	1114	1R5BZ61-B	1114	1S031	1143	1S99	1114	1S-188	1123	1S334	562
1N5740	564	1NE11-K	1114	1R5BZ61-C	1114	1S032	1143	1S99A	1104	1S188	1123	1S334M	562
1N5740B	564	1NE11-L	1114	1R5BZ61-D	1114	1S034	1144	1S99R	1104	1S188(AM)	1123	1S334N	562
1N5767	1122	1NE11-Y	1114	1R5BZ61-K	1114	1S054	1104	1S100	1104	1S188-FM	1123	1S337	563
1N5802	1122	1NE11A	1114	1R5BZ61-L	1114	1S058	1114	1S100R	1104	1S188A	1123	1S337-Y	563
1N5803	1122	1NE11B	1114	1R5BZ61-OR	1114	1S1209	1104	1S101	1104	1S188AM	1123	1S337A	563
1N5804	1122	1NE11C	1114	1R5BZ61-Y	1114	1S11	1123	1S101R	1104	1S188AR	1123	1S337E	563
1N5805	1122	1NE11D	1114	1R5DZ61	1143	1S12	1123	1S102	1104	1S188F	1123	1S337Y	563
1N5806	1122	1NE11K	1114	1R5DZ61-A	1114	1S13	1123	1S102R	1104	1S188FM	1123	1S347	561
1N5807	1122	1NE11L	1114	1R5DZ61-B	1114	1S14	1123	1S103	1104	1S188FM-1	1123	1S354	1123
1N5808	1122	1NE11R	1114	1R5DZ61-C	1114	1S15	1123	1S103R	1104	1S188FM1	1123	1S355	1123
1N5809	1122	1NE11Y	1114	1R5DZ61-D	1114	1S16	1123	1S104	1104	1S188FM1A	1123	1S356	1123
1N5810	1122	1NF11	1114	1R5DZ61-L	1114	1S17	1123	1S104R	1104	1S188FM-2	1123	1S357	1123
1N5811	1122	1NH61	1114	1R5DZ61-OR	1114	1S17D1	1123	1S105	1104	1S188FM2	1123	1S358	1104
1N5817	1101	1NJ27	1114	1R5DZ61-Y	1114	1S18	1123	1S105R	1104	1S188FMFA	1123	1S358A	1104
1N5818	1101	1NJ33233	1123	1R5G	1114	1S19	1123	1S106	1104	1S188FMI	1123	1S358S	1104
1N5819	1101	1NJ60284	1123	1R5GZ61	1114	1S20	1123	1S106A	1104	1S188MPX	1123	1S359	1104
1N5820	1114	1NJ61224	1123	1R5GZ61-A	1114	1S32	1123	1S106R	1104	1S188P	1123	1S367	1104
1N5821	1114	1NJ61433	1122	1R5GZ61-B	1114	1S33	1123	1S107	1114	1S188S	1123	1S368	1104
1N5822	1114	1NJ61675	1123	1R5GZ61-C	1114	1S34	1125	1S107R	1114	1S188TV	1123	1S369	1104
1N5846	565	1NJ61676	1104	1R5GZ61-D	1114	1S34(TV)	1123	1S108	1114	1S188TV(MP)	1123	1S370	1104
1N5846A	565	1NJ61677	1122	1R5GZ61-K	1114	1S34S	1123	1S108R	1114	1S189	1123	1S371	1104
1N5846B	565	1NJ61725	1122	1R5GZ61-L	1114	1S35	1123	1S109	1114	1S189FM	1123	1S372	1104
1N5847	565	1NJ70973	1123	1R5GZ61-OR	1114	1S36	1104	1S109R	1114	1S189FM(MP)	1123	1S373	1104
1N5847A	565	1NJ70980	1122	1R5GZ61-Y	1114	1S37	561	1S110	1104	1S190	565	1S374	1104
1N5847B	565	1NJ70989	1123	1R5GZ61FA-1	1114	1S38	1122	1S110A	1104	1S194	562	1S375	1104
1N5850	561	1NJ71126	1101	1R5GZ61FA1	1114	1S39	1114	1S111	1104	1S197	563	1S376	1104
1N5850A	561	1NJ71185	1123	1R5H	1104	1S40	1143	1S112	1104	1S200	1123	1S377	1104
1N5850B	561	1NJ71186	1101	1R5JZ61-A	1114	1S42	1144	1S113	1104	1S204	1104	1S378	1104
1N5854	562	1NJ71224	1122	1R5JZ61-B	1114	1S43	1144	1S113A	1104	1S205	1104	1S379	1104
1N5854A	562	1NZ61	1114	1R5JZ61-C	1114	1S44	1104	1S114	1104	1S206	1104		

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1S382	1104	1S755H	565	1S954(2)	1122	1S1219H	1122	1S1473	1122	1S1694A	1104	1S1850R	1104
1S390	1104	1S757A	562	1S955	1122	1S1220	1122	1S1474	1143	1S1695	1114	1S1851	1104
1S393	1104	1S758	562	1S956	1143	1S1221	1104	1S1475	1144	1S1695A	1104	1S1851R	1104
1S394	1104	1S758(H)	562	1S957	1144	1S1222	1104	1S1486	1104	1S1696	1104	1S1855	1122
1S395	1104	1S758GS	562	1S961	1122	1S1223	1114	1S1487	1104	1S1696A	1104	1S1881AM	1104
1S396	1104	1S758H	562	1S977	1122	1S1224	1104	1S1488	1143	1S1697	1104	1S1885	1102
1S397	1114	1S773	1122	1S978	1122	1S1225	1114	1S1489	1144	1S1698	1104	1S1885-3	1104
1S398	1114	1S773A	1122	1S981	1122	1S1225A	1114	1S1514	1122	1S1701	1122	1S1885A	1102
1S399	1104	1S774	1122	1S982	1122	1S1230	1104	1S1515	1122	1S1710	1122	1S1885FA	1102
1S400	1104	1S774A	1122	1S983	1122	1S1230H	1104	1S1516	1122	1S1711	1122	1S1886	1102
1S401	1114	1S775	1122	1S984	1122	1S1231	1104	1S1532	1122	1S1712	1122	1S1886A	1102
1S402	1114	1S775FA-1	1104	1S985	1122	1S1231H	1104	1S1546	1104	1S1712A	1122	1S1887	1103
1S404	1104	1S776	1122	1S986	1122	1S1232	1104	1S1547	1104	1S1713	1122	1S1887[AU]	1103
1S405	1114	1S776A	1122	1S987	1122	1S1232H	1104	1S1548	1104	1S1714	1122	1S1887[FA]	1103
1S406	1114	1S777	1104	1S988	1122	1S1232N	1104	1S1552	1122	1S1715	561	1S1887A	1103
1S426	1122	1S788	1123	1S990	1122	1S1233	1114	1S1553	1122	1S1717	562	1S1887A(FA-1)	1103
1S426G	1123	1S801	1122	1S990-AM	1122	1S1233H	1114	1S1553(TV)	1122	1S1717L	562	1S1887AFA	1104
1S426GFM	1123	1S802	1122	1S990A	1122	1S1233N	1114	1S1553V	1122	1S1718	562	1S1887AFA-1	1103
1S428	1123	1S803	1122	1S990AM	1123	1S1234	1122	1S1553V(TV)	1122	1S1720	1114	1S1887A-Z	1103
1S430	1141	1S804	1122	1S990S	564	1S1234H	1114	1S1554	1122	1S1720R	1114	1S1887FA	1104
1S431	1143	1S805	1122	1S994A	1122	1S1234N	1114	1S1554(TV)	1122	1S1723	1104	1S1887FA-1	1104
1S441	1123	1S806	1122	1S994S	565	1S1239	1123	1S1554V	1122	1S1724	1104	1S1888	1104
1S442	1123	1S807	1122	1S1001	1122	1S1244	1123	1S1555	1122	1S1724R	1104	1S1888V	1104
1S444	1122	1S808	1122	1S1004	1104	1S1245	1123	1S1555(TV)	1122	1S1725	1104	1S1891	1114
1S446	1123	1S811	1104	1S1005	1123	1S1246	1123	1S1555-1	1122	1S1725S	1104	1S1892	1114
1S446D	1123	1S812	1104	1S1006	1123	1S1255A	1114	1S1555-5	1122	1S1726	1104	1S1906	1104
1S447	1123	1S813	1114	1S1007	1123	1S1295	1122	1S-1555-Z	1122	1S1726R	1104	1S1914	1143
1S448	1123	1S814	1114	1S1007S	1123	1S1296	1122	1S1555FA-1	1122	1S1727	1104	1S1915	1143
1S449	1123	1S816	1104	1S1008	1123	1S1297	1171	1S1555FA1	1122	1S1727R	1104	1S1916	1144
1S451	1123	1S817	1104	1S1009	1123	1S1298	1104	1S1555TP	1122	1S1728	562	1S1921A	1104
1S452	1123	1S818	1114	1S1010	1123	1S1299	1104	1S-1555V	1122	1S1728R	1104	1S1921B	1104
1S453	1123	1S819	1114	1S1012	1104	1S1301	1122	1S1555V	1122	1S1729	1104	1S1921C	1104
1S454	1123	1S841	1104	1S1013	1104	1S1302	1122	1S1555V(TV)	1122	1S1729R	1104	1S1921D	1104
1S455	1123	1S842	1104	1S1014	1114	1S1303	1122	1S1555Z	1122	1S1730	1104	1S1921E	1104
1S456	1122	1S843	1104	1S1015	1114	1S1304	1122	1S1579	1122	1S1730R	1104	1S1921F	1104
1S457	1122	1S844	1104	1S1021	1104	1S1305	1122	1S1580	1122	1S1731	1114	1S1947	1104
1S458	1104	1S844N	1104	1S1022	1104	1S1314	1101	1S1585	1122	1S1731R	1114	1S1941B	1122
1S459	1104	1S845	1104	1S1023	1114	1S1316	1122	1S1586	1122	1S1732	1114	1S1941L	1101
1S460	1122	1S846	1104	1S1024	1114	1S1317	1122	1S1587	1122	1S1732R	1114	1S1942	1104
1S461	1122	1S846N	1104	1S1027	1104	1S1318	1104	1S1588	1122	1S1734	565	1S1943	1104
1S462	1122	1S847	1114	1S1028	1104	1S1319	1104	1S1588-FM	1123	1S1735	561	1S1944	1114
1S463	1143	1S848	1114	1S1029	1114	1S1320	1104	1S1588V	1122	1S1737	562	1S194E	1104
1S464	1122	1S848N	1114	1S1030	1114	1S1333	1104	1S1589	1122	1S1739	563	1S194S	1104
1S465	1122	1S849	1104	1S1039	1144	1S1341	1104	1S1597	1104	1S1740	564	1S1960	1104
1S467R	1123	1S849R	1104	1S1043	1104	1S1342	1104	1S1598	1104	1S1766	565	1S1955	565
1S468	1122	1S849R	1104	1S1044	1104	1S1343	1104	1S1599	1104	1S1767	561	1S1956	561
1S472	562	1S850	1114	1S1045	1114	1S1344	1104	1S1600	1104	1S1769	562	1S1959	562
1S480	561	1S850N	1114	1S1046	1114	1S1345	1114	1S1601	1104	1S1772	564	1S1962	563
1S482	562	1S851	1123	1S1052	1122	1S1346	1104	1S1602	1104	1S1781	562	1S1964	564
1S500	1122	1S854	1144	1S-1053	1122	1S1347	1114	1S1604	1104	1S1782	562	1S1972	1122
1S501	1122	1S871	1104	1S1053	1122	1S1348	1114	1S1605	1114	1S1783	562	1S1972-M	1122
1S501M	1122	1S871A	1104	1S1061	1104	1S1359	1104	1S1608	1114	1S1796	1122	1S1973	1122
1S542	1123	1S871B	1114	1S1062	1104	1S1359A	1104	1S1621	1122	1S1801-02	1122	1S1973-M	1122
1S548	1122	1S871C	1114	1S1063	1104	1S1360	1104	1S1621-O	1122	1S1821	1114	1S1991	1143
1S552	1122	1S872	1104	1S1064	1104	1S1360A	1104	1S1621-R	1122	1S1821R	1114	1S2019	1114
1S557	1114	1S872A	1104	1S1065	1114	1S1361	1104	1S1621-Y	1122	1S1829	1114	1S2047	565
1S557H	1114	1S872B	1104	1S1066	1114	1S1361A	1104	1S1622	1104	1S1829A	1114	1S2047A	565
1S558	1104	1S872C	1114	1S1071	1114	1S1362	1114	1S1623	1104	1S1829B	1114	1S2051	565
1S559	1104	1S881	1104	1S1072	1143	1S1362A	1114	1S1624	1104	1S1829C	1104	1S2051A	565
1S560	1122	1S881A	1104	1S1073	1144	1S1363	1114	1S1625	1104	1S1829D	1114	1S2051B	565
1S560H	1122	1S881B	1114	1S1076	1114	1S1363A	1114	1S1664	1104	1S1829K	1114	1S2062	561
1S568	1122	1S881C	1114	1S1076TF1	1122	1S1365	1104	1S1666	1104	1S1829L	1114	1S2062A	561
1S588	1104	1S882	1104	1S1095	562	1S1365A	1104	1S1667	1104	1S1829Y	1114	1S2063	1114
1S589	1123	1S882A	1104	1S1096	1104	1S1366	1104	1S1668	1104	1S1830	1114	1S2067	562
1S593	1104	1S882B	1114	1S1121	1171	1S1366A	1104	1S1668F	1104	1S1830A	1114	1S2068	562
1S597	564	1S882C	1114	1S1123	1173	1S1367	1104	1S1669	1114	1S1830B	1114	1S2069	562
1S633	565	1S885	1104	1S1124	1173	1S1367A	1104	1S1670	1171	1S1830C	1114	1S2070	1122
1S634	565	1S887	1104	1S1146	1104	1S1368	1104	1S1672	1173	1S1830D	1114	1S2071	1122
1S635	561	1S920	1122	1S1147	1122	1S1368A	1114	1S1678	1104	1S1830K	1114	1S2071A	1122
1S661	1104	1S921	1122	1S1148	1122	1S1369	1122	1S1679	1104	1S1830L	1114	1S2072	1122
1S662	1114	1S921(RECT)	1143	1S1149	1122	1S1369A	1114	1S1680	1104	1S1830Y	1114	1S2074	1122
1S663	1114	1S922	1144	1S1161	565	1S1375	561	1S1681	1104	1S1834	1104	1S2074H	1122
1S685	1104	1S922(DIODE)	1122	1S1172	565	1S1375A	561	1S1682	1114	1S1835	1104	1S2075	1122
1S686	1114	1S922(RECT)	1144	1S1173	561	1S1377	562	1S1683	1114	1S1845	1104	1S2075K	1122
1S687	1114	1S923	1122	1S1175	562	1S1377A	562	1S1684	1104	1S1845A	1104	1S2076	1122
1S691	565	1S941	1122	1S1177	564	1S1390	561	1S1685	1104	1S1845B	1104	1S2076-27	1122
1S693	1122	1S942	1122	1S1201	561	1S1390A	561	1S1686	1104	1S1845C	1114	1S2076-TF1	1122
1S696	563	1S943	1104	1S1201(H)	561	1S1392	562	1S1687	1104	1S1845D	1114	1S2076-TF1	1122
1S697	564	1S946	1104	1S1207	1122	1S1392A	562	1S1688	1114	1S1846	1104	1S2076A	1122
1S731	1122	1S947	1104	1S1208	1122	1S1404	565	1S1689	1114	1S1846A	1104	1S2076A/-07-27	1122
1S744	1123	1S948	1104	1S1213	1122	1S1404R	565	1S1690	1123	1S1846B	1104	1S2076SA-07	1122
1S745	1123	1S949	1114	1S1214	1122	1S1406	561	1S1690A	1104	1S1846C	1114	1S2076SA-07-27	1122
1S746	1123	1S950	1114	1S1215	1122	1S1406R	561	1S1691	1104	1S1846D	1114	1S2076T	1122
1S747	1123	1S951	1122	1S1216	1122	1S1408	562	1S1691A	1104	1S1848	1104	1S2076TF1	1122

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1S2091-BK	1122	1S2357	1104	1S2550	562	1SD2	1104	1SR91-400	1114	1SS135	1122	1S226	561
1S2091-BL	1122	1S2358	1104	1S2553	563	1SD1212	1104	1SR96-200	1102	1SS136	1122	1S239	561
1S2091-W	1122	1S2359	1104	1S2588	1122	1SI209	1104	1SR96-400	1103	1SS137	1122	1S240-12	563
1S2091A	562	1S2361	1104	1S2509	1104	1SM1	1104	1SR96-600	1104	1SS138	1122	1S240-15	564
1S2091BK	1122	1S2362	1104	1S2590	1104	1S-M2511-80105035B	1104	1SR97-800	1114	1SS139	1122	1S250	561
1S2091BL	1122	1S2363	1104	1S2591	1104			1SR97-1000	1114	1SS140	1122	1S251	561
1S2091W	1122	1S2364	1114	1S2596	1143	1SO30	1104	1SR99-100	1104	1SS141	1122	1S252	561
1S2092	1122	1S2365	1114	1S2597	1122	1SO31	1104	1SR99-200	1102	1SS142	1104	1S253	561
1S2095	1122	1S2367	1104	1S2602	1104	1SO32	1104	1SR99-400	1103	1SS143	1104	1S255-C4V7	565
1S2095A	1122	1S2371	1171	1S2603	1104	1SO34	1104	1SR99A-100	1104	1SS144	1104	1S255-C5V1	565
1S2097	1122	1S2371A	1171	1S2604	1104	1SO36	1104	1SR99A-200	1102	1SS145	1104	1S255-C6V2	561
1S2098	1122	1S2372	1104	1S2605	1104	1SO38	1114	1SR99A-400	1103	1SS146	1104	1S255-C9V1	562
1S2099	1122	1S2373	1104	1S2606	1104	1SO58	1114	1SR100-200	1102	1SS147	1104	1S255-C12	563
1S2109	565	1S2373A	1173	1S2607	1104	1SR1FM4	1104	1SR100-400	1103	1SS148	1122	1S255-C15	564
1S2109A	565	1S2374	1104	1S2608	1114	1SR1K	1104	1SR100-600	1104	1SS149	1104	1S261	561
1S2112AFA-1	561	1S2375	1104	1S2609	1114	1SR11-100	1114	1SR100-800	1114	1SS150	1122	1S263	563
1S2116	562	1S2376	1104	1S2610	1114	1SR11-200	1104	1SR101-800	1114	1SS150(A)	1122	1T2C1	1104
1S2116A	562	1S2376A	1173	1S2618	1114	1SR11-400	1114	1SR112-800	1114	1SS152	1122	1T2Z1	1104
1S2119	563	1S2377	1114	1S2675	1104	1SR11-600	1104	1SR112-1000	1114	1SS152(A)	1122	1T6.2	561
1S2119A	563	1S2379	1144	1S2676	1104	1SR11-800	1114	1SR117-100	1114	1SS163	1122	1T6.2A	561
1S2120	563	1S2390	1104	1S2692AB	1122	1SR11-1000	1114	1SR117-200	1114	1SS164	1122	1T6.2B	561
1S2120A	563	1S2391	1104	1S2757	1104	1SR12-50	1114	1SR117-400	1114	1SS168(A)	1122	1T9.1	562
1S2121	564	1S2392	1104	1S2760	1141	1SR12-100	1114	1SR117-600	1114	1SS169	1122	1T9.1A	562
1S2121A	564	1S2393	1104	1S2761	1143	1SR12-200	1104	1SR117-800	1114	1SS170	1122	1T9.1B	562
1S2124	1104	1S2394	1104	1S2762	1143	1SR12-400	1114	1SR119-100	1104	1SS171	1122	1T11.5A	563
1S2126	562	1S2395	1104	1S2763	1144	1SR12-600	1104	1SR119-200	1102	1SS172	1104	1T12	563
1S2127	563	1S2396	1104	1S2764	1144	1SR12-800	2023	1SR119-400	1103	1SS173A	1122	1T12A	563
1S2128	561	1S2397	1114	1S2768A	1114	1SR12-1000	1114	1SR124-50	1101	1SS175	1122	1T12B	563
1S2129	562	1S2398	1114	1S2769	561	1SR13-50	1114	1SR124-50A	1101	1SS175A	1122	1T15	564
1S2130	563	1S2399	1114	1S2770	561	1SR13-100	1114	1SR124-100	1104	1SS176	1122	1T15B	564
1S2134	1122	1S2400	1114	1S2771	561	1SR13-200	1104	1SR124-100A	1104	1SS176FA	1122	1T19-15B	564
1S2135	1122	1S2401	1104	1S2774	561	1SR13-400	1114	1SR124-200	1104	1SS177	1122	1T22	1123
1S2137	562	1S2402	1104	1S2775FA1	1104	1SR13-600	1104	1SR124-200A	1104	1SS178	1122	1T22(A)	1123
1S2138	563	1S2403	1114	1S2776	1114	1SR13-800	2023	1SR124-400	1104	1SS178FA	1122	1T22A	1123
1S2140	1104	1S2404	1104	1S2777	1104	1SR13-1000	1114	1SR124-400A	1104	1SS181	1122	1T22AJ	1123
1S2144	1122	1S2405	1114	1S2779	1144	1SR14-50	1114	1SR138	1122	1SS184	1122	1T22AM	1123
1S2144A	1122	1S2406	1114	1S2787	1122	1SR14-100	1114	1SS19	1122	1SS187	1122	1T22B	1123
1S-2144Z	1122	1S2408	1141	1S2788	1122	1SR14-200	1104	1SS24	1122	1SS190	1122	1T22G	1123
1S2144Z	1122	1S2409	1114	1S2788B	1122	1SR14-400	1114	1SS25	1122	1SS193	1122	1T23	1123
1S2145	1122	1S2410	1143	1S2827A	1143	1SR15-50	1141	1SS26	1122	1SS196	1122	1T23A	1123
1S2150	564	1S2411	1144	1S2828A	1144	1SR15-100	1143	1SS27	1122	1SS200	1122	1T23B	1123
1S2150A	564	1S2412	1144	1S2832	1104	1SR15-200	1143	1SS28	1122	1SS201	1122	1T23G	1123
1S2195	562	1S2415	1141	1S2833	2023	1SR15-400	1144	1SS29	1122	1SS202	1122	1T23J	1123
1S2196	563	1S2416	1143	1S3009	562	1SR16-50	1141	1SS30	1122	1SS203	1122	1T23M	1123
1S2204	1122	1S2417	1143	1S3012	563	1SR16-100	1143	1SS31	1122	1SS204	1122	1T23S	1123
1S2212	1122	1S2418	1144	1S3016	564	1SR16-200	1143	1SS41	1122	1SS205	1122	1T26	1123
1S2226	1104	1S2419	1144	1S3016(RECT)	1104	1SR16-400	1144	1SS49	1122	1SS206	1122	1T26-2	1123
1S2227	1104	1S2452	561	1S3016R	1104	1SR17-50	1141	1SS50	1122	1SS207	1122	1T40	1122
1S2228	1104	1S2453	561	1S3195	1104	1SR17-100	1143	1SS51	1122	1SS208	1122	1T188	1123
1S2229	1104	1S2454	561	1S3305	565	1SR17-200	1143	1SS-53	1122	1SS209	1122	1T213	1123
1S2230	1104	1S2455	1143	1S3585	1123	1SR17-400	1144	1SS53	1122	1SS210	1122	1T220	2035
1S2231	1114	1S2456	1143	1S4266	1123	1SR30-200	1104	1SS54	1122	1SS211	1122	1T229-E	1104
1S2238	1114	1S2457	1144	1S4266FM	1123	1SR30-400	1114	1SS54-T4	1122	1SS212	1122	1T231	1123
1S2239	1114	1S2460	1122	1S4738	565	1SR30-600	1104	1SS55	1122	1SS213	1122	1T236	1123
1S2240	1114	1S2461	1122	1S5277B	1104	1SR31-800	2023	1SS68	1122	1SS214	1122	1T240	1123
1S2241	1114	1S2461V-Y	1122	1S5295G	1104	1SR31-1000	1114	1SS81	1122	1SS215	1122	1T240A	1123
1S2242	1114	1S2462	1122	1S5295J	1104	1SR34	1122	1SS-82	1104	1SS217	1122	1T243	1122
1S2243	1114	1S2463	1104	1S5454	1123	1SR35	1122	1SS82	1104	1SS218	1122	1T243M	562
1S2244	1104	1S2471	1122	1S7047	565	1SR35-50	1101	1SS83	1122	1SS219	1122	1T261	1123
1S2245	1104	1S2471A	1122	1S7047A	565	1SR35-50A	1101	1SS84	1122	1SS220	1122	1T262	1123
1S2246	1104	1S2471TA	1122	1S7047B	565	1SR-35-100	1104	1SS92	1122	1SS221	1122	1T378	1104
1S2269	1104	1S-2472	1122	1S7051	565	1SR35-100	1104	1SS93	1122	1SS222	1122	1T501	1104
1S2271	1104	1S2472	1122	1S7051A	565	1SR35-100-Z	1104	1SS94	1122	1SS223	1122	1T502	1104
1S2272	1104	1S2473	1122	1S7051B	565	1SR35-100A	1104	1SS95	1122	1SS226	1122	1T503	1104
1S2273	1114	1S2473*7A	1122 N8	1S7062	561	1SR35-200	1102	1SS102	1122	1SS227	1122	N3	1104
1S2274	1114	1S2473*7K	1122 N8	1S7062A	561	1SR35-200A	1102	1SS104	1122	1SS229	1122	N2	1104
1S2275FA-1	1104	1S2473-K	1122	1S7062B	561	1SR-35-400	1103	1SS109	1122	1SS230	1122	N1	1104
1S2276	1122	1S2473-T72	1122	1S7091	562	1SR35-400	1103	1SS110	1122	1SS231	1122	N2	1114
1S2277	1104	1S2473H	1122	1S7091A	562	1SR35-400A	1103	1SS110FQ	1122	1SS232	1122	N1	1114
1S2278	1104	1S2473HC	1122	1S7091B	562	1SR55-50	1114	1SS110T	1122	1SS233	1122	N2	1114
1S2279	1104	1S2473H-Y	1122	1S7120	563	1SR55-100	1114	1SS110Y	1122	1SS234	1122	N2	1114
1S2304	565	1S2473I	1122	1S7120A	563	1SR55-200	1104	1SS117	1122	1SS235	1122	N1	2009
1S2310	1104	1S2473K	1122	1S7120B	563	1SR68	1114	1SS118	1122	1SS236	1122	N1	2009
1S2311	1114	1S2473T	1122	1S7150	564	1SR69	1104	1SS119	1122	1SS240	1122	1T1331	1123
1S2312	1114	1S2473TA	1122	1S7150A	564	1SR70-100	1171	1SS119-041T	1122	1SS243	1122	1T2011	1104
1S2313	1104	1S2473VE	1122	1S7150B	564	1SR70-400	1173	1SS119-14	1122	1SS250	1122	1T2012	1104
1S2314	1114	1S2479	1123	1S9413	1104	1SR77-200	1104	1SS119-14FQ	1122	1SS251	1104	1T2013	1104
1S2315	1114	1S2486	565	1S9908	1123	1SR77-400	1114	1SS120	1122	1SS252	1122	1T2014	1104
1S2316	1104	1S2486R	565	1S15188	1122	1SR77-600	1104	1SS121	1122	1SS253	1122	1T2015	1104
1S2317	1104	1S2487	565	1S19413	1104	1SR77-800	1114	1SS122	1104	1SS254	1122	1T2016	1104
1S2348	1122	1S2489	561	1S19413T	1104	1SR77-1000	1114	1SS123	1122	1SS267	1104	1T20105	1104
1S2350	1144	1S2493	562	1S21447	1122	1SR78-200	1104	1SS130	1122	1SS270	1122	1TA6.2	561
1S2351	1104	1S2496	563	1SB01-02	1104	1SR78-400	1114	1SS131	1122	1SS270A	1122	1TA6.2A	561
1S2352	1104	1S2543	565	1SC603	2016	1SR79-800	2023	1SS132	1122	1SS272	1122	1TA6.2B	561

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1TA12A	563	1Z15D3	564	2A21	565	2E8DM	1114 N1	2N343	2030	2N709A	2016	2N835/51	1617
1TA15	564	1Z15D10	564	2A21(ZENITH)	565	2E10	1114	2N343A	2030	2N711/46	2016	2N839	1617
1TA15A	564	1Z15D30	564	2A22	565	2E10DM	1114 N1	2N385/46	2009	2N715	1617	2N840	1617
1T06	1104	1Z15T5	564	2A22(ZENITH)	565	2E12DM	1114 N1	2N422/A	2035	2N716	2009	2N841	1617
1T05	1104	1Z15T10	564	2A30	1114	2E16DM	1114 N1	2N431	1617	2N717	1617	2N841#6	1617
1TV24237	1101	1Z15T20	564	2A50	1122	2E20DM	1114 N1	2N432	1617	2N717A	2016	2N841/KVT	1617
1TWC8H	562	1Z91.1D10	562	2A100	1114	2EM03	1114	2N433	1617	2N718	1617	2N842	1617
1TWC8L	562	1Z91.D10	562	2A119	1123	2EM05	1114	2N470	1617	2N718A	1617	2N843	1617
1TWC8M	562	1ZB12	563	2A200	1114	2EM015	1114	2N471	1617	2N721	2023	2N844	1617
1U585F	1617	1ZB12B	563	2A400	1114	2EM6	1114	2N471A	1617	2N721A	2023	2N845	2030
1V3074A20	1104	1ZB15	564	2A500	1114	2EM8	1114	2N472	1617	2N721AB	2023	2N849	2016
1V3074A21	1104	1ZB15B	564	2A690	1114	2EM10	1114	2N472A	1617	2N722	2023	2N850	2016
1V7002	1123	1ZC3.1	565	2A800	1114	2F05	1141	2N473	1617	2N722A	2023	2N851	2016
1V8611A47	2023	1ZC6.2	561	2A1000	1114	2F2CN1	1114	2N474	1617	2N722AB	2023	2N852	2016
1V8611A47A	2023	1ZC9.1	562	2AA112	1123	2F2CN5	1114	2N474A	1617	2N728	1617	2N858	2023
1VA10	1104	1ZC9.1T5	562	2AA113	1123	2F4	1104	2N475	1617	2N729	1617	2N858C	2023
1W1706	2035	1ZC9.1T10	562	2AA116	1123	2F5CN1	1114	2N475A	1617	2N730	2030	2N859	2023
1W9640A	2023	1ZC12	563	2AA119	1123	2F6	1114	2N476	1617	2N731	2030	2N859D	2023
1W9640A	2023	1ZC12T5	563	2AA119(MP)	1123	2F8	1114	2N476A	2016	2N734	2030	2N860	2023
1W9728	2023	1ZC12T10	563	2AG	2016	2F10	1114	2N477	1617	2N734A	2030	2N860A	2023
1W9728A	2023	1ZC12T20	563	2AH	2016	2FB050	1171	2N478	1617	2N735	2030	2N861	2023
1W9782	2023	1ZC15	564	2AM-1	1067	2FB100	1171	2N479	1617	2N735A	2030	2N861A	2023
1W9782A	2023	1ZC15T5	564	2B2DM	1171	2G8	1104	2N479A	1617	2N736	2030	2N862	2023
1W9787	1617	1ZC15T10	564	2B3M	1171	2G13	1104	2N480	1617	2N736A	2030	2N862A	2023
1W9810	2023	1ZD12	563	2B2MS	1171	2G805	1171	2N480A	1617	2N736B	2030	2N863	2023
1W9810A	2023	1ZF5.1T5	565	2B6DM	1173	2GA	1104	2N480B	2030	2N739	2030	2N863A	2023
1W9810S	2023	1ZF5.1T10	565	2B6M	1173	2GG2C41	1114 N2	2N497	2030	2N739A	2030	2N864	2023
1W9810SA	2023	1ZF5.1T20	565	2B6MS	1173	2GG2Z41	1114 N1	2N497A	2030	2N740	2030	2N866	1617
1W11700	2023	1ZF9.1T5	562	2B8DM	1173	2H1254	2023	2N498	2030	2N740A	2030	2N867	1617
1W11700A	2023	1ZF9.1T10	562	2B8M	1173	2H1255	2023	2N541	1617	2N742	1617	2N870	2030
1W11702	2023	1ZF9.1T20	562	2B8MS	1173	2H1258	2023	2N541A	2016	2N742A	1617	2N871	2030
1W11702A	2023	1ZF12T5	563	2B8ZC41	1114 N2	2H1259	2023	2N542	2030	2N743	1617	2N876	1067
1W11706	2035	1ZF12T10	563	2B8Z241	1114 N1	2HR3J	1114	2N542A	1617	2N744	1617	2N877	1067
1W11706-1	1617	1ZF12T20	563	2C05	1114	2HR3M	1114	2N543	1617	2N745	1617	2N878	1067
1W11706-2	1617	1ZF15T5	564	2C2DM	1114 N2	2ISD235-R	2020	2N543A	1617	2N746	1617	2N879	1067
1W11711	2023	1ZF15T10	564	2C2M	1114 N2	2J8138	1104	2N545	2030	2N747	1617	2N880	1067
1W11711A	2023	1ZF15T20	564	2C4DM	1114 N2	2JG2C41	1114 N2	2N546	1617	2N748	1617	2N881	1067
1WB-5A	565	1ZM4.7T5	565	2C4M	1114 N2	2JG2Z41	1114 N1	2N547	2030	2N749	1617	2N885	1067
1WB-9D	562	1ZM4.7T10	565	2C6	1114	2K02	1114	2N548	1617	2N752	2030	2N885A	1067
1WB-15D	564	1ZM4.7T20	565	2C6DM	1114 N2	2K19H	2035	2N549	2030	2N753	1617	2N888A	1067
1WM6	1104	1ZM5.1T5	565	2C6M	1114 N2	2KBP005	1171	2N550	1617	2N753/46	2009	2N902	2016
1WS1	1114	1ZM5.1T10	565	2C8	1114	2KBP01	1171	2N551	1617	2N754	1617	2N903	2016
1WS2	1114	1ZM5.1T20	565	2CBDM	1114 N2	2KBP04	1173	2N552	1617	2N755	2030	2N904	2016
1WS4	1144	1ZM6.2T5	561	2C9M	1114 N2	2M214	562	2N560	2030	2N756	1617	2N905	2016
1WS8	1114	1ZM6.2T10	561	2C10	1114	2M6219	2016	2N619	1617	2N756A	1617	2N906	2009
1WS10	1114	1ZM6.2T20	561	2C10DM	1114 N2	2MN6374	2016	2N620	1617	2N757	1617	2N908	2030
1X9179	1122	1ZM9.1T5	562	2C10M	1114 N2	2MW665	1123	2N621	1617	2N757A	1617	2N909	1617
1X9805	1122	1ZM9.1T10	562	2C12DM	1114 N2	2N2J324	2030	2N622	1617	2N757B	2009	2N910	2030
1X9809	1122	1ZM9.1T20	562	2C12M	1114 N2	2N117	2009	2N655A	2030	2N758	1617	2N911	2030
1Z4.7	565	1ZM12T5	563	2C16DM	1114 N2	2N118	2009	2N656	2030	2N758A	1617	2N912	2030
1Z4.7A	565	1ZM12T10	563	2C16M	1114 N2	2N118A	2009	2N656A	2030	2N758B	1617	2N913	1617
1Z4.7B	565	1ZM12T20	563	2C20DM	1114 N2	2N119	2009	2N656S	2030	2N759	1617	2N914	1617
1Z5.1	565	1ZM15T5	564	2C20M	1114 N2	2N120	2009	2N657	2030	2N759A	1617	2N914A/46	1617
1Z5.1A	565	1ZM15T10	564	2C537FC	2016	2N160	2009	2N657S	2030	2N759B	1617	2N914/51	2016
1Z5.1B	565	1ZM15T20	564	2CY38	2023	2N160A	2009	2N696	1617	2N760	1617	2N914A	1617
1Z5.1T5	565	1ZT12	563	2CY39	2023	2N161	2009	2N696A	2030	2N760A	1617	2N915	1617
1Z6.2	561	1ZT12B	563	2D002	2009	2N161A	2009	2N696S	2030	2N760B	1617	2N915A	1617
1Z6.2A	561	1ZT15	564	2D002-41	2009	2N162	2009	2N697	2030	2N761	1617	2N916	1617
1Z6.2B	561	1ZT15B	564	2D002-168	1617	2N162A	2016	2N697A	2030	2N762	1617	2N916A	1617
1Z6.2T5	561	1.000.111-00	2023	2D002-169	1617	2N163	2009	2N699	2030	2N770	1617	2N916B	1617
1Z6.2T20	561	1.5B05	1114	2D002-170	2009	2N163A	2009	2N699A	2030	2N771	1617	2N917	2016
1Z9.1	562	1.5C05	1114	2D002-175	2009	2N263	2009	2N699A,B	2030	2N772	1617	2N917/46	2058
1Z9.1A	562	1.5E08	1141	2D010	2041	2N264	2009	2N699B	2030	2N773	1617	2N917/51	2016
1Z9.1B	562	1.5E1	1143	2D017-165	2023	2N332	1617	2N701	1617	2N774	1617	2N917A	2016
1Z9.1C	562	1.5E2	1143	2D017-166	2023	2N332A	1617	2N702	1617	2N775	1617	2N918	2016
1Z9.1D	562	1.5E3	1114	2D017-167	2023	2N333	1617	2N703	1617	2N776	1617	2N918/46	2016
1Z9.1D5	562	1.5E4	1144	2D017-169	2023	2N333A	1617	2N706	1617	2N777	1617	2N918/51	2016
1Z9.1D10	562	1.5E7	1114	2D026	2009	2N334	1617	2N706/46	1617	2N778	1617	2N919	1617
1Z9.1D15	562	1.5E8	1114	2D026-274	2009	2N334A	1617	2N706/51	1617	2N780	1617	2N920	1617
1Z9.1T5	562	1.5E10	1114	2D027	2023	2N334B	1617	2N706/TNT	1617	2N783	1617	2N921	1617
1Z9.1T10	562	1.5J05	1141	2D031	2062	2N335	1617	2N706A	1617	2N784	1617	2N922	1617
1Z9.1T20	562	1.5J1	1143	2D033	2009	2N335A	1617	2N706A/46	1617	2N784/51	1617	2N923	2023
1Z12	563	1.5J2	1143	2D41	1067	2N335B	1617	2N706A/51	1617	2N784A	1617	2N923A	2023
1Z12A	563	1.5J3	1144	2DB4A	1173	2N336	1617	2N706A/TNT	1617	2N784A/46	1617	2N924	2023
1Z12B	563	1.5J4	1144	2DG2	1123	2N336A	1617	2N706B	1617	2N784A/51	1617	2N924A	2023
1Z12C	563	1.5J7	1114	2DG2C41	1114 N2	2N337	1617	2N706B/46	1617	2N784A/46	2009	2N925	2023
1Z12D	563	1.5J8	1114	2DG2Z41	1114 N1	2N337A	1617	2N706B/51	1617	2N789	1617	2N925A	2023
1Z12D5	563	1.5J10	1114	2DO33	2009	2N338	1617	2N706C	1617	2N790	1617	2N926	2023
1Z12D10	563	2Q3395	2009	2E05	1104	2N338A	1617	2N706M-JAN	1617	2N791	1617	2N926A	2023
1Z12T5	563	2-00045-345	2009	2E1	1104	2N339	2030	2N707A	1617	2N792	1617	2N927	2023
1Z12T10	563	2-00045-424	2009	2E9	1114	2N339A	2030	2N708	1617	2N793	1617	2N927A	2023
1Z12T20	563	2-0A90	1123	2E1DM	1114 N1	2N3390-U29	2009	2N708/46	1617	2N834	1617	2N928	2023
1Z15	564	2-55R3	2089	2E4	1104	2N340	2030	2N708/51	1617	2N834/46	1617	2N928A	2023
1Z15A	564	2-D2K	1104	2E4DM	1114 N1	2N340A	2030	2N708/TNT	1617	2N834/51	1617	2N929	1617
1Z15B	564	2-D7L	1104	2E5	1114	2N342	2030	2N708A	1617	2N834A	1617	2N929A	1617
1Z15C	564	2-D2R	1104	2E6MA	1114 N								

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2N930/46	1617	2N1132A	2023	2N1487	2041	2N1920	2023	2N2185	2023	2N2315	1617	2N2501	1617
2N930/KVT	1617	2N1132A/46	2023	2N1488	2041	2N1921	2023	2N2186	2023	2N2317	2030	2N2510	2030
2N930/TNT	1617	2N1132A/51	2023	2N1489	2040	2N1923	2030	2N2187	2023	2N2318	1617	2N2511	2030
2N930A	1617	2N1132A46	2023	2N1491	2031	2N1929	1067	2N2192	2030	2N2319	1617	2N2514	1617
2N930A/46	1617	2N1132AC	2023	2N1492	2030	2N1941	2030	2N2192A	2030	2N2320	1617	2N2515	1617
2N930B	1617	2N1132B	2023	2N1505	1617	2N1943	2030	2N2192B	2030	2N2322	1067	2N2516	2030
2N935	2023	2N1132B/46	2023	2N1506	1617	2N1944	1617	2N2193	2030	2N2323	1067	2N2523	1617
2N935A	2023	2N1132B/51	2023	2N1506A	1617	2N1945	1617	2N2193A	2030	2N2324	1067	2N2524	1617
2N936	2023	2N1132B46	2023	2N1507	2030	2N1946	1617	2N2193AS	2030	2N2325	1067	2N2529	1617
2N936A	2023	2N1135	2023	2N1508	2030	2N1947	1617	2N2193B	2030	2N2326	1067	2N2530	1617
2N937	2023	2N1135A	2023	2N1509	2030	2N1948	1617	2N2194	2030	2N2327	1020	2N2531	1617
2N937A	2023	2N1139	1617	2N1528	1617	2N1949	1617	2N2194A	2030	2N2328	1020	2N2532	1617
2N938	2023	2N1140	1617	2N1564	2030	2N1950	1617	2N2194B	2030	2N2329	1020	2N2533	1617
2N938A	2023	2N1149	2009	2N1565	2030	2N1951	1617	2N2195	2030	2N2330	1617	2N2534	1617
2N939	2023	2N1150	2009	2N1566	2030	2N1952	1617	2N2195A	2030	2N2331	1617	2N2537	2030
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253040	2023	25A490-R	2027	25A495-RED	2023	25A509L	2023	25A542J	2023	25A562T(Q)	2023	25A565(D)	2023
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25A467F	2023	25A490LBG1	2027	25A495GN	2023	25A522B	2023	25A550A(R,Q,S)	2023	25A562VO	2023	25A565K	2023
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25A467K	2023	25A490YLBG1	2027	25A495M	2023	25A522J	2023	25A550BL	2023	25A564(O)	2023	25A567A	2023
25A467L	2023	25A493	2023	25A495O	2023	25A522K	2023	25A550C	2023	25A564(P)	2023	25A567B	2023
25A467M	2023	25A493-GR	2023	25A495OF	2023	25A522L	2023	25A550D	2023	25A564(Q)	2023	25A567C	2023
25A467OR	2023	25A493-O	2023	25A495OR	2023	25A522M	2023	25A550P	2023	25A564(R)	2023	25A567D	2023
25A467R	2023	25A493-Y	2023	25A495R	2023	25A522OR	2023	25A550Q	2023	25A564(S)	2023	25A567E	2023
25A467X	2023	25A493A	2023	25A495RD	2023	25A522R	2023	25A550R	2023	25A564(S,T)	2023	25A567F	2023
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2SA937M(Q)	2023	2SA1026	2023	2SB434-RED	2027	2SB641Q	2023	2SB-5131	1114	2SC18H	1617	2SC23H	2030
2SA937M(R)	2023	2SA1027	2023	2SB434-Y	2027	2SB641QR	2023	2SB-5851	1171	2SC18J	1617	2SC23J	2030
2SA937M(S)	2023	2SA1027(R)	2023	2SB434-YEL	2027	2SB641QRS	2023	2SC12	2030	2SC18K	1617	2SC23K	2030
2SA937MQRS	2023	2SA1027R	2023	2SB434G-O	2027	2SB641R	2023	2SC12A	2030	2SC18L	1617	2SC23L	2030
2SA937MR	2023	2SA1028	2043	2SB434G-R	2027	2SB641S	2023	2SC12B	2030	2SC18M	1617	2SC23M	2030
2SA937MRS	2023	2SA1029	2023	2SB434G-Y	2027	2SB641T	2023	2SC12C	2030	2SC18OR	1617	2SC23OR	2030
2SA937MS	2023	2SA1029B	2023	2SB434R	2027	2SB642	2023	2SC12D	2030	2SC18R	1617	2SC23R	2030
2SA937Q	2023	2SA1029C	2023	2SB435	2027	2SB642(Q)	2023	2SC12E	2030	2SC18X	1617	2SC23X	2030
2SA937R	2023	2SA1029D	2023	2SB435-O	2027	2SB642(R)	2023	2SC12F	2030	2SC19	2030	2SC23Y	2030
2SA937RZ	2023	2SA1030B	2023	2SB435-O	2027	2SB642(S)	2023	2SC12G	2030	2SC19A	2030	2SC24	2030
2SA941	2023	2SA1030C	2023	2SB435-ORG	2027	2SB642-O	2023	2SC12GN	2030	2SC19B	2030	2SC24A	2030
2SA942	2023	2SA1040	2023	2SB435-R	2027	2SB642-Q	2023	2SC12H	2030	2SC19C	2030	2SC24B	2030
2SA950	2023	2SA1042	2043	2SB435-RED	2027	2SB642-R	2023	2SC12J	2030	2SC19D	2030	2SC24C	2030
2SA950(O)	2023	2SA1045	2043	2SB435-Y	2027	2SB642P	2023	2SC12K	2030	2SC19E	2030	2SC24D	2030
2SA950(Y)	2023	2SA1046	2043	2SB435-YEL	2027	2SB642Q	2023	2SC12L	2030	2SC19F	2030	2SC24E	2030
2SA950-O	2023	2SA1046	2023	2SB435G-O	2027	2SB642QR	2023	2SC12M	2030	2SC19G	2030	2SC24F	2030
2SA950-O	2023	2SA1048-GR	2023	2SB435G-R	2027	2SB642QRS	2023	2SC12OR	2030	2SC19GN	2030	2SC24G	2030
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2SA950Y	2023	2SA1048O	2023	2SB435R	2027	2SB643	2023	2SC12Y	2030	2SC19K	2030	2SC24J	2030
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2SA952(M)	2023	2SA1050	2023	2SB507	2027	2SB643(S)	2023	2SC15-1	1617	2SC19OR	2030	2SC24M	2030
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2SA952LK	2023	2SA1082D	2023	2SB509	2027	2SB643-Q	2023	2SC15A	1617	2SC19Y	2030	2SC24X	2030
2SA953	2023	2SA1082E	2023	2SB511	2027	2SB643-R	2023	2SC15B	1617	2SC20	2030	2SC24Y	2030
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2SA981	2043	2SA1115	2023	2SB512P	2027	2SB644(R)	2023	2SC15K	1617	2SC20H	2030	2SC26GN	1617
2SA982	2043	2SA1115(E)	2023	2SB513	2027	2SB644(S)	2023	2SC15L	1617	2SC20J	2030	2SC26H	1617
2SA984	2023	2SA1115(F)	2023	2SB513A	2027	2SB644-Q	2023	2SC15M	1617	2SC20K	2030	2SC26J	1617
2SA984(E)	2023	2SA1115-E	2023	2SB513P	2027	2SB644-R	2023	2SC15OR	1617	2SC20L	2030	2SC26K	1617
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2SA1002	2043	2SA1175(F)	2023	2SB531-O	2043	2SB709	2023	2SC16H	1617	2SC21G	2041	2SC27G	1617
2SA1004	2023	2SA1175(H)	2023	2SB531-R	2043	2SB709A	2023	2SC16J	1617	2SC21GN	2041	2SC27GN	1617
2SA1005	2023	2SA1175-F	2023	2SB531-Y	2043	2SB709QR-TX	2023	2SC16K	1617	2SC21H	2041	2SC27H	1617
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2SA1012-Y	2027	2SA1175F	2023	2SB542	2023	2SB726	2023	2SC16M	1617	2SC21K	2041	2SC27K	1617
2SA1012Y	2027	2SA1175F(H)	2023	2SB542D	2023	2SB726(R)	2023	2SC16OR	1617	2SC21L	2041	2SC27L	1617
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2SA1015(G)	2023	2SA1175J	2023	2SB555-R	2043	2SB726R	2023	2SC16Y	1617	2SC21R	2041	2SC27R	1617
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2SA1015(O)	2023	2SA1198(S)	2023	2SB556-O	2043	2SB744	2023	2SC17B	1617	2SC22	2030	2SC28	1617
2SA1015(Y)	2023	2SA1198RS	2023	2SB556-R	2043	2SB744A	2023	2SC17C	1617	2SC22A	2030	2SC28A	1617
2SA1015(Y)L	2023	2SA1198S	2023	2SB557	2043	2SB744Q	2023	2SC17D	1617	2SC22B	2030	2SC28B	1617
2SA1015-O	2023	2SA1199	2023	2SB557-O	2043	2SB744R	2023	2SC17E	1617	2SC22D	2030	2SC28C	1617
2SA1015-GR	2023	2SA124											

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SC28F	1617	2SC33C	2009	2SC45B-O	1617	2SC51X	2030	2SC56Y	2016	2SC64Y-RST	2030	2SC79L	2058
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2SC32E	2030	2SC40C	2016	2SC51	2030	2SC56A	2016	2SC64A	2030	2SC74M	1617	2SC95C	2030
2SC32F	2030	2SC40D	2016	2SC51A	2030	2SC56B	2016	2SC64B	2030	2SC74R	1617	2SC95D	2030
2SC32G	2030	2SC40E	2016	2SC51B	2030	2SC56C	2016	2SC64C	2030	2SC74X	1617	2SC95E	2030
2SC32GN	2030	2SC40F	2016	2SC51C	2030	2SC56D	2016	2SC64D	2030	2SC74Y	1617	2SC95F	2030
2SC32H	2030	2SC40G	2016	2SC51D	2030	2SC56E	2016	2SC64E	2030	2SC79	2058	2SC95G	2030
2SC32J	2030	2SC40GN	2016	2SC51E	2030	2SC56F	2016	2SC64F	2030	2SC79A	2058	2SC95GN	2030
2SC32K	2030	2SC40H	2016	2SC51F	2030	2SC56G	2016	2SC64G	2030	2SC79B	2058	2SC95H	2030
2SC32L	2030	2SC40J	2016	2SC51G	2030	2SC56GN	2016	2SC64GN	2030	2SC79C	2058	2SC95J	2030
2SC32M	2030	2SC40K	2016	2SC51GN	2030	2SC56H	2016	2SC64H	2030	2SC79D	2058	2SC95K	2030
2SC32OR	2030	2SC40L	2016	2SC51H	2030	2SC56J	2016	2SC64J	2030	2SC79E	2058	2SC95L	2030
2SC32R	2030	2SC40OR	2016	2SC51J	2030	2SC56K	2016	2SC64L	2030	2SC79F	2058	2SC95M	2030
2SC32X	2030	2SC40R	2016	2SC51K	2030	2SC56L	2016	2SC64M	2030	2SC79G	2058	2SC95OR	2030
2SC32Y	2030	2SC40X	2016	2SC51L	2030	2SC56M	2016	2SC64OR	2030	2SC79GN	2058	2SC95R	2030
2SC33	2009	2SC40Y	2016	2SC51M	2030	2SC56OR	2016	2SC64R	2030	2SC79H	2058	2SC95X	2030
2SC33A	2009	2SC45	1617	2SC51OR	2030	2SC56R	2016	2SC64X	2030	2SC79J	2058	2SC95Y	2030
2SC33B	2009	2SC45B-GR	1617	2SC51R	2030	2SC56X	2016	2SC64Y	2030	2SC79K	2058	2SC96	2009

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DEVICE	276	DEVICE	276	DEVICE	276	DEVICE	276	DEVICE	276	DEVICE	276	DEVICE	276
25C97	2030	25C104	1617	25C111E	1617	25C115X	2030	25C120R	1617	25C127M	1617	25C134OR	1617
25C97A	2030	25C104A	1617	25C111F	1617	25C115Y	2030	25C120Y	1617	25C127OR	1617	25C134R	1617
25C97B	2030	25C104B	1617	25C111G	1617	25C116	2009	25C121	2030	25C127R	1617	25C134X	1617
25C97C	2030	25C104C	1617	25C111GM	1617	25C116-OR	2009	25C121A	2030	25C127X	1617	25C134Y	1617
25C97D	2030	25C104D	1617	25C111H	1617	25C116A	2009	25C121B	2030	25C127Y	1617	25C135	1617
25C97E	2030	25C104E	1617	25C111J	1617	25C116B	2009	25C121C	2030	25C130	2030	25C135A	1617
25C97F	2030	25C104F	1617	25C111K	1617	25C116C	2009	25C121D	2030	25C130A	2030	25C135B	1617
25C97G	2030	25C104G	1617	25C111L	1617	25C116D	2009	25C121E	2030	25C130B	2030	25C135C	1617
25C97GN	2030	25C104GN	1617	25C111M	1617	25C116E	2009	25C121F	2030	25C130C	2030	25C135D	1617
25C97H	2030	25C104H	1617	25C111OR	1617	25C116F	2009	25C121G	2030	25C130D	2030	25C135E	1617
25C97J	2030	25C104J	1617	25C111R	1617	25C116G	2009	25C121GN	2030	25C130E	2030	25C135F	1617
25C97K	2030	25C104K	1617	25C111X	1617	25C116GN	2009	25C121H	2030	25C130F	2030	25C135G	1617
25C97L	2030	25C104L	1617	25C111Y	1617	25C116H	2009	25C121J	2030	25C130GN	2030	25C135GN	1617
25C97M	2030	25C104M	1617	25C112	2030	25C116J	2009	25C121L	2030	25C130H	2030	25C135H	1617
25C97OR	2030	25C104OR	1617	25C112A	2030	25C116K	2009	25C121M	2030	25C130J	2030	25C135J	1617
25C97R	2030	25C104R	1617	25C112B	2030	25C116L	2009	25C121OR	2030	25C130K	2030	25C135L	1617
25C97X	2030	25C104X	1617	25C112C	2030	25C116M	2009	25C121R	2030	25C130L	2030	25C135M	1617
25C97Y	2030	25C104Y	1617	25C112D	2030	25C116OR	2009	25C121X	2030	25C130M	2030	25C135OR	1617
25C98	1617	25C105	1617	25C112E	2030	25C116R	2009	25C121Y	2030	25C130OR	2030	25C135R	1617
25C98A	1617	25C105B	1617	25C112F	2030	25C116T	2009	25C122	2030	25C130R	2030	25C135X	1617
25C98B	1617	25C107	2020	25C112G	2030	25C116X	2009	25C122A	2030	25C130X	2030	25C135Y	1617
25C98C	1617	25C107G4	2020	25C112GN	2030	25C116Y	2009	25C122B	2030	25C130Y	2030	25C136	1617
25C98D	1617	25C107G5	2020	25C112H	2030	25C117	2030	25C122C	2030	25C131	1617	25C136D	1617
25C98E	1617	25C107G6	2020	25C112J	2030	25C117A	2030	25C122D	2030	25C131A	1617	25C137	1617
25C98F	1617	25C108	2030	25C112M	2030	25C117B	2030	25C122E	2030	25C131B	1617	25C137A	1617
25C98G	1617	25C108A	2030	25C112L	2030	25C117C	2030	25C122F	2030	25C131C	1617	25C137B	1617
25C98GN	1617	25C108A-O	2030	25C112M	2030	25C117D	2030	25C122G	2030	25C131D	1617	25C137C	1617
25C98H	1617	25C108A-R	2030	25C112OR	2030	25C117F	2030	25C122GN	2030	25C131E	1617	25C137D	1617
25C98J	1617	25C108B	2030	25C112R	2030	25C117G	2030	25C122H	2030	25C131F	1617	25C137E	1617
25C98K	1617	25C108C	2030	25C112X	2030	25C117GN	2030	25C122J	2030	25C131G	1617	25C137F	1617
25C98L	1617	25C108D	2030	25C112Y	2030	25C117H	2030	25C122K	2030	25C131GN	1617	25C137G	1617
25C98M	1617	25C108E	2030	25C113	2030	25C117J	2030	25C122L	2030	25C131H	1617	25C137GN	1617
25C98OR	1617	25C108F	2030	25C113A	2030	25C117K	2030	25C122M	2030	25C131J	1617	25C137H	1617
25C98R	1617	25C108G	2030	25C113B	2030	25C117L	2030	25C122OR	2030	25C131L	1617	25C137J	1617
25C98X	1617	25C108GN	2030	25C113C	2030	25C117M	2030	25C122R	2030	25C131M	1617	25C137K	1617
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25C99	1617	25C108J	2030	25C113E	2030	25C117R	2030	25C122Y	2030	25C131R	1617	25C137M	1617
25C99A	1617	25C108K	2030	25C113F	2030	25C117X	2030	25C123	2030	25C131T	1617	25C137OR	1617
25C99B	1617	25C108L	2030	25C113G	2030	25C117Y	2030	25C123A	2030	25C131Y	1617	25C137R	1617
25C99C	1617	25C108M	2030	25C113GN	2030	25C118	2030	25C123B	2030	25C132	1617	25C137X	1617
25C99D	1617	25C108OR	2030	25C113H	2030	25C118A	2030	25C123C	2030	25C132A	1617	25C137Y	1617
25C99E	1617	25C108R	2030	25C113J	2030	25C118B	2030	25C123D	2030	25C132B	1617	25C138	1617
25C99F	1617	25C108X	2030	25C113K	2030	25C118C	2030	25C123E	2030	25C132C	1617	25C138A	1617
25C99G	1617	25C108Y	2030	25C113L	2030	25C118D	2030	25C123F	2030	25C132D	1617	25C138B	1617
25C99GN	1617	25C109	2030	25C113M	2030	25C118E	2030	25C123G	2030	25C132E	1617	25C138C	1617
25C99H	1617	25C109A	2030	25C113OR	2030	25C118F	2030	25C123GN	2030	25C132F	1617	25C138D	1617
25C99J	1617	25C109A-O	2030	25C113R	2030	25C118G	2030	25C123H	2030	25C132G	1617	25C138E	1617
25C99K	1617	25C109A-R	2030	25C113X	2030	25C118GN	2030	25C123J	2030	25C132GN	1617	25C138F	1617
25C99L	1617	25C109A-Y	2030	25C113Y	2030	25C118H	2030	25C123K	2030	25C132H	1617	25C138G	1617
25C99M	1617	25C109B	2030	25C114	2030	25C118J	2030	25C123L	2030	25C132J	1617	25C138GN	1617
25C99OR	1617	25C109C	2030	25C114A	2030	25C118L	2030	25C123M	2030	25C132K	1617	25C138H	1617
25C99R	1617	25C109D	2030	25C114B	2030	25C118M	2030	25C123OR	2030	25C132L	1617	25C138J	1617
25C99X	1617	25C109E	2030	25C114C	2030	25C118OR	2030	25C123R	2030	25C132M	1617	25C138L	1617
25C99Y	1617	25C109F	2030	25C114D	2030	25C118R	2030	25C123X	2030	25C132OR	1617	25C138M	1617
25C100	1617	25C109G	2030	25C114E	2030	25C118X	2030	25C123Y	2030	25C132R	1617	25C138OR	1617
25C100-OY	1617	25C109G1	2030	25C114F	2030	25C118Y	2030	25C124	2030	25C132X	1617	25C138R	1617
25C100A	1617	25C109GN	2030	25C114G	2030	25C119	2030	25C124A	2030	25C132Y	1617	25C138S	1617
25C100B	1617	25C109J	2030	25C114GN	2030	25C119A	2030	25C124B	2030	25C133	1617	25C138X	1617
25C100C	1617	25C109K	2030	25C114H	2030	25C119B	2030	25C124C	2030	25C133A	1617	25C139	1617
25C100D	1617	25C109L	2030	25C114J	2030	25C119C	2030	25C124D	2030	25C133C	1617	25C139A	1617
25C100E	1617	25C109OR	2030	25C114K	2030	25C119D	2030	25C124E	2030	25C133D	1617	25C139B	1617
25C100F	1617	25C109R	2030	25C114L	2030	25C119E	2030	25C124F	2030	25C133E	1617	25C139C	1617
25C100G	1617	25C109X	2030	25C114M	2030	25C119F	2030	25C124G	2030	25C133F	1617	25C139D	1617
25C100GN	1617	25C109Y	2030	25C114OR	2030	25C119G	2030	25C124GN	2030	25C133G	1617	25C139E	1617
25C100J	1617	25C110	1617	25C114R	2030	25C119GN	2030	25C124H	2030	25C133GN	1617	25C139F	1617
25C100L	1617	25C110A	1617	25C114X	2030	25C119H	2030	25C124J	2030	25C133H	1617	25C139G	1617
25C100M	1617	25C110B	1617	25C114Y	2030	25C119J	2030	25C124K	2030	25C133J	1617	25C139GN	1617
25C100OR	1617	25C110C	1617	25C115	2030	25C119K	2030	25C124L	2030	25C133K	1617	25C139H	1617
25C100R	1617	25C110D	1617	25C115-1	2030	25C119L	2030	25C124M	2030	25C133L	1617	25C139J	1617
25C100X	1617	25C110E	1617	25C115-2	2030	25C119M	2030	25C124OR	2030	25C133M	1617	25C139K	1617
25C100Y	1617	25C110F	1617	25C115-3	2030	25C119OR	2030	25C124R	2030	25C133OR	1617	25C139M	1617
25C103	1617	25C110G	1617	25C115-43	2030	25C119R	2030	25C124X	2030	25C133X	1617	25C139N	1617
25C103A	1617	25C110GN	1617	25C115A	2030	25C119X	2030	25C124Y	2030	25C133Y	1617	25C139R	1617
25C103B	1617	25C110H	1617	25C115B	2030	25C119Y	2030	25C125	2030	25C134	1617	25C139K	1617
25C103C	1617	25C110J	1617	25C115C	2030	25C120	1617	25C127	1617	25C134A	1617	25C139Y	1617
25C103D	1617	25C110K	1617	25C115D	2030	25C120A	1617	25C127A	1617	25C134B	1617	25C140	2030
25C103E	1617	25C110L	1617	25C115E	2030	25C120B	1617	25C127B	1617	25C134C	1617	25C140A	2030
25C103F	1617	25C110M	1617	25C115F	2030	25C120C	1617	25C127C	1617	25C134D	1617	25C140C	2030
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25C103GN	1617	25C110R	1617	25C115GN	2030	25C120E	1617	25C127E	1617	25C134F	1617	25C140E	2030
25C103H	1617	25C110X	1617	25C115H	2030	25C120F	1617	25C127F</					

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
25C140M	2030	25C152M	1617	25C159M	1617	25C171H	1617	25C188B	2030	25C193A	1617	25C198	2041
25C140OR	2030	25C152OR	1617	25C159OR	1617	25C171J	1617	25C188C	2030	25C193B	1617	25C198A	2041
25C140R	2030	25C152R	1617	25C159R	1617	25C171K	1617	25C188D	2030	25C193C	1617	25C198H	2041
25C140X	2030	25C152X	1617	25C159X	1617	25C171L	1617	25C188E	2030	25C193D	1617	25C199	1617
25C140Y	2030	25C152Y	1617	25C159Y	1617	25C171M	1617	25C188F	2030	25C193E	1617	25C199A	1617
25C141	2009	25C153	2009	25C160	1617	25C171OR	1617	25C188G	2030	25C193F	1617	25C199B	1617
25C142	2009	25C155	2016	25C160A	1617	25C171R	1617	25C188GN	2030	25C193G	1617	25C199C	1617
25C143	2009	25C155A	2016	25C160B	1617	25C171X	1617	25C188J	2030	25C193GN	1617	25C199D	1617
25C144	2009	25C155B	2016	25C160C	1617	25C171Y	1617	25C188K	2030	25C193H	1617	25C199E	1617
25C144A	2009	25C155C	2016	25C160D	1617	25C172	1617	25C188L	2030	25C193J	1617	25C199F	1617
25C145	2009	25C155D	2016	25C160E	1617	25C172A	1617	25C188M	2030	25C193K	1617	25C199G	1617
25C146	2009	25C155E	2016	25C160F	1617	25C172B	1617	25C188OR	2030	25C193L	1617	25C199GN	1617
25C146A	2009	25C155F	2016	25C160G	1617	25C172C	1617	25C188R	2030	25C193M	1617	25C199H	1617
25C148	2016	25C155GN	2016	25C160GN	1617	25C172D	1617	25C188X	2030	25C193OR	1617	25C199J	1617
25C148A	2016	25C155H	2016	25C160H	1617	25C172E	1617	25C188Y	2030	25C193R	1617	25C199K	1617
25C148B	2016	25C155J	2016	25C160J	1617	25C172F	1617	25C189	2030	25C193X	1617	25C199L	1617
25C148D	2016	25C155K	2016	25C160K	1617	25C172G	1617	25C189A	2030	25C194	1617	25C199M	1617
25C148E	2016	25C155L	2016	25C160L	1617	25C172GN	1617	25C189B	2030	25C194A	1617	25C199OR	1617
25C148F	2016	25C155M	2016	25C160M	1617	25C172H	1617	25C189C	2030	25C194B	1617	25C199R	1617
25C148G	2016	25C155OR	2016	25C160OR	1617	25C172J	1617	25C189D	2030	25C194C	1617	25C199X	1617
25C148H	2016	25C155R	2016	25C160R	1617	25C172K	1617	25C189E	2030	25C194D	1617	25C199Y	1617
25C148I	2016	25C155S	2016	25C160S	1617	25C172L	1617	25C189F	2030	25C194E	1617	25C200	1617
25C148J	2016	25C155Y	2016	25C160Y	1617	25C172M	1617	25C189G	2030	25C194F	1617	25C200A	1617
25C148K	2016	25C156	2016	25C162	2009	25C172OR	1617	25C189GN	2030	25C194G	1617	25C200B	1617
25C148L	2016	25C156A	2016	25C166	1617	25C172R	1617	25C189H	2030	25C194GN	1617	25C200C	1617
25C148M	2016	25C156B	2016	25C166A	1617	25C172Y	1617	25C189J	2030	25C194H	1617	25C200D	1617
25C148OR	2016	25C156C	2016	25C166B	1617	25C174	1617	25C189K	2030	25C194J	1617	25C200E	1617
25C148R	2016	25C156D	2016	25C166C	1617	25C174A	1617	25C189L	2030	25C194K	1617	25C200F	1617
25C148X	2016	25C156E	2016	25C166D	1617	25C174B	1617	25C189M	2030	25C194L	1617	25C200G	1617
25C148Y	2016	25C156F	2016	25C166E	1617	25C174C	1617	25C189OR	2030	25C194M	1617	25C200GN	1617
25C149	2030	25C156G	2016	25C166F	1617	25C174D	1617	25C189R	2030	25C194OR	1617	25C200H	1617
25C150	2030	25C156GN	2016	25C166G	1617	25C174E	1617	25C189X	2030	25C194X	1617	25C200J	1617
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25C150A	2030	25C156J	2016	25C166H	1617	25C174G	1617	25C190	2030	25C195	1617	25C200L	1617
25C150B	2030	25C156K	2016	25C166J	1617	25C174GN	1617	25C190A	2030	25C195A	1617	25C200M	1617
25C150C	2030	25C156L	2016	25C166K	1617	25C174H	1617	25C190B	2030	25C195B	1617	25C200OR	1617
25C150D	2030	25C156M	2016	25C166L	1617	25C174J	1617	25C190C	2030	25C195C	1617	25C200R	1617
25C150E	2030	25C156OR	2016	25C166M	1617	25C174K	1617	25C190D	2030	25C195D	1617	25C200X	1617
25C150F	2030	25C156R	2016	25C166OR	1617	25C174L	1617	25C190E	2030	25C195E	1617	25C200Y	1617
25C150G	2030	25C156X	2016	25C166R	1617	25C174M	1617	25C190F	2030	25C195F	1617	25C201	1617
25C150GN	2030	25C156Y	2016	25C166X	1617	25C174OR	1617	25C190GN	2030	25C195G	1617	25C201A	1617
25C150H	2030	25C157	1617	25C166Y	1617	25C174Q	1617	25C190H	2030	25C195GN	1617	25C201B	1617
25C150J	2030	25C157A	1617	25C167	1617	25C174R	1617	25C190J	2030	25C195H	1617	25C201C	1617
25C150K	2030	25C157B	1617	25C167A	1617	25C174S	1617	25C190K	2030	25C195J	1617	25C201D	1617
25C150L	2030	25C157C	1617	25C167B	1617	25C174X	1617	25C190L	2030	25C195K	1617	25C201E	1617
25C150M	2030	25C157D	1617	25C167C	1617	25C174Y	1617	25C190M	2030	25C195L	1617	25C201F	1617
25C150OR	2030	25C157E	1617	25C167D	1617	25C186	2016	25C190OR	2030	25C195M	1617	25C201G	1617
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25C152H	1617	25C159E	1617	25									

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25C204M	1617	25C211J	2030	25C210G	2030	25C227G	2030	25C230D	1617	25C247A	2030	25C261X	2016
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25C206M	2016	25C216H	2030	25C222G	2030	25C234F	2030	25C240C	2041	25C249C	2030	25C268L	2030
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25C208	2016	25C216X	2030	25C222R	2030	25C234M	2030	25C240I	2041	25C249I	2030	25C268V	2016
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25C208B	2016	25C217	2030	25C222Y	2030	25C234R	2030	25C240L	2041	25C249L	2030	25C268X	2016
25C208C	2016	25C217A	2030	25C225	2030	25C234X	2030	25C240M	2041	25C249M	2030	25C268Y	2016
25C208D	2016	25C217B	2030	25C225A	2030	25C234Y	2030	25C240OR	2041	25C249OR	2030	25C269	2016
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25C210E	2030	25C218C	2030	25C226C	2030	25C237	1617	25C241X	2041	25C250R	1617	25C269Z	2016
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25C211	2030	25C218Y	2030	25C226X	2030	25C237M	1617	25C242K	2041	25C250E	2016	25C272A	2016
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25C211B	2030	25C220											

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25C272J	2016	25C289	2016	25C302M	1617	25C310H	2030	25C318C	1617	25C344Y	2016	25C353F	2030
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25C281Y	2009	25C291R	2030	25C307GN	2030	25C315C	1617	25C321OR	1617	25C350J	1617	25C360A	1617
25C282	1617	25C291X	2030	25C307H	2030	25C315D	1617	25C321R	1617	25C350K	1617	25C360B	1617
25C282A	1617	25C291Y	2030	25C307J	2030	25C315E	1617	25C321X	1617	25C350L	1617	25C360C	1617
25C282B	1617	25C295	2009	25C307K	2030	25C315F	1617	25C321Y	1617	25C350M	1617	25C360D	1617
25C282C	1617	25C296	2020	25C307L	2030	25C315G	1617	25C322	2009	25C350OR	1617	25C360E	1617
25C282D	1617	25C297	2017	25C307M	2030	25C315GN	1617	25C323	1617	25C350R	1617	25C360F	1617
25C282E	1617	25C300	1617	25C307OR	2030	25C315H	1617	25C323A	1617	25C350X	1617	25C360G	1617
25C282F	1617	25C300A	1617	25C307R	2030	25C315J	1617	25C323B	1617	25C350Y	1617	25C360H	1617
25C282G	1617	25C300B	1617	25C307X	2030	25C315K	2030	25C323C	1617	25C351	2016	25C360GN	1617
25C282GN	1617	25C300C	1617	25C307Y	2030	25C315L	1617	25C323D	1617	25C351(FA)	2016	25C360J	1617
25C282H	1617	25C300D	1617	25C308	2030	25C315M	1617	25C323E	1617	25C351A	2016	25C360K	1617
25C282J	1617	25C300E	1617	25C308A	2030	25C315OR	1617	25C323F	1617	25C351B	2016	25C360L	1617
25C282K	1617	25C300F	1617	25C308B	2030	25C315R	1617	25C323G	1617	25C351C	2016	25C360M	1617
25C282L	1617	25C300G	1617	25C308C	2030	25C315X	1617	25C323GN	1617	25C351D	2016	25C360OR	1617
25C282M	1617	25C300GN	1617	25C308D	2030	25C315Y	1617	25C323H	1617	25C351E	2016	25C360R	1617
25C282OR	1617	25C300H	1617	25C308E	2030	25C316	1617	25C323J	1617	25C351F	2016	25C360X	1617
25C282R	1617	25C300J	1617	25C308F	2030	25C316A	1617	25C323K	1617	25C351FA1	2016	25C360Y	1617
25C282X	1617	25C300K	1617	25C308G	2030	25C316B	1617	25C323L	1617	25C351G	2016	25C361	2009
25C282Y	1617	25C300L	1617	25C308GN	2030	25C316C	1617	25C323M	1617	25C351GN	2016	25C361A	2009
25C284	1617	25C300M	1617	25C308H	2030	25C316D	1617	25C323OR	1617	25C351H	2016	25C361B	2009
25C284A	1617	25C300OR	1617	25C308J	2030	25C316E	1617	25C323R	1617	25C351J	2016	25C361C	2009
25C284B	1617	25C300R	1617	25C308K	2030	25C316F	1617	25C323X	1617	25C351K	2016	25C361D	2009
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25C284D	1617	25C300Y	1617	25C308M	2030	25C316GN	1617	25C324	1617	25C351M	2016	25C361F	2009
25C284E	1617	25C301	1617	25C308OR	2030	25C316H	1617	25C324(H)	1617	25C351OR	2016	25C361G	2009
25C284F	1617	25C301A	1617	25C308R	2030	25C316J	1617	25C324A	1617	25C351R	2016	25C361GN	2009
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25C284J	1617	25C301E	1617	25C309A	2030	25C316OR	1617	25C324E	1617	25C352-OR	2009	25C361L	2009
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25C284OR	1617	25C301H	1617	25C309E	2030	25C317	1617	25C324H	1617	25C352C	2009	25C361X	2009
25C284R	1617	25C301I	1617	25C309F	2030	25C317A	1617	25C324HA	1617	25C352D	2009	25C361Y	2009
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25C284Y	1617	25C301L	1617	25C309GN	2030	25C317C	1617	25C324K	1617	25C352F	2009	25C362A	2009
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25C286A	2016	25C301OR	1617	25C309J	2030	25C317E	1617	25C324M	1617	25C352GN	2009	25C362C	2009
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25C286F	2016	25C302A	1617	25C309R	2030	25C317J	1617	25C332	2009	25C352M	2009	25C362GN	2009
25C286G	2016	25C302B	1617	25C309X	2030	25C317K	1617	25C333	1617	25C352OR	2009	25C362H	2009
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25C286H	2016	25C302D	1617	25C310	2030	25C317M	1617	25C335	2009	25C352X	2009	25C362K	2009
25C286J	2016	25C302E	1617	25C310A	2030	25C317OR	1617	25C336	1617	25C352Y	2009	25C362L	2009
25C286K	2016	25C302F	1617	25C310B									

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25C363A	1617	25C369	2016	25C371X	2009	25C3740R	2016	25C378GN	2009	25C380V	2009	25C383H	2009
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25C363C	1617	25C369-BLU-G	2016	25C372	2009	25C374V	2016	25C378J	2009	25C381Y	2009	25C383K	2009
25C363D	1617	25C369-GR	2016	25C372(H)	2009	25C374X	2016	25C378K	2009	25C381YD	2009	25C383L	2009
25C363E	1617	25C369-GRN-G	2016	25C372(L)	2009	25C374Y	2016	25C378L	2009	25C381E	2016	25C383M	2009
25C363F	1617	25C369-V	2016	25C372(Y)	2009	25C375	2016	25C378M	2009	25C381(BN)	2016	25C383OR	2009
25C363G	1617	25C369A	2016	25C372-O	2009	25C375-0	2016	25C378O	2009	25C381-0	2016	25C383R	2009
25C363GN	1617	25C369B	2016	25C372-1	2009	25C375-C	2016	25C378OR	2009	25C381-BN	2016	25C383T	2009
25C363H	1617	25C369BL	2016	25C372-2	2009	25C375-Y	2016	25C378R	2009	25C381-BRN	2016	25C383TM	2009
25C363J	1617	25C369C	2016	25C372-O	2009	25C375A	2016	25C378X	2009	25C381-0	2016	25C383W	2009
25C363K	1617	25C369D	2016	25C372-OR	2009	25C375B	2016	25C378Y	2009	25C381-OR	2016	25C383X	2009
25C363L	1617	25C369E	2016	25C372-ORG	2009	25C375C	2016	25C379	2009	25C381-ORG	2016	25C383Y	2009
25C363M	1617	25C369F	2016	25C372-ORG-G	2009	25C375D	2016	25C379A	2009	25C381-E	2016	25C384	2016
25C363OR	1617	25C369G	2016	25C372-T	2009	25C375E	2016	25C379B	2009	25C381-RED	2016	25C384-D	2016
25C363P	1617	25C369G-BL	2016	25C372-YEL-G	2009	25C375F	2016	25C379C	2009	25C381A	2016	25C384(Y)	2016
25C363X	1617	25C369G/GR	2016	25C372A	2009	25C375G	2016	25C379D	2009	25C381B	2016	25C384-O	2016
25C363Y	1617	25C369G-BL	2016	25C372AR	2009	25C375GN	2016	25C379E	2009	25C381BN	2016	25C384A	2016
25C366	2009	25C369GBL	2016	25C372B	2009	25C375H	2016	25C379F	2009	25C381BN-1	2016	25C384B	2016
25C366-0	2009	25C369G-GR	2016	25C372C	2009	25C375J	2016	25C379G	2009	25C381C	2016	25C384C	2016
25C366-ORG-G	2009	25C369GGR	2016	25C372D	2009	25C375K	2016	25C379GN	2009	25C381D	2016	25C384D	2016
25C366-RED-G	2009	25C369GN	2016	25C372E	2009	25C375L	2016	25C379H	2009	25C381E	2016	25C384E	2016
25C366A	2009	25C369GR	2016	25C372F	2009	25C375M	2016	25C379J	2009	25C381F	2016	25C384F	2016
25C366B	2009	25C369G-LV	2016	25C372G	2009	25C375N	2016	25C379K	2009	25C381G	2016	25C384G	2016
25C366C	2009	25C369H	2016	25C372GN	2009	25C375O	2016	25C379L	2009	25C381GN	2016	25C384GN	2016
25C366D	2009	25C369I	2016	25C372G-O	2009	25C375P	2016	25C379M	2009	25C381H	2016	25C384H	2016
25C366E	2009	25C369K	2016	25C372G-Y	2009	25C376	2009	25C379OR	2009	25C381J	2016	25C384J	2016
25C366F	2009	25C369L	2016	25C372J	2009	25C376A	2009	25C379R	2009	25C381K	2016	25C384K	2016
25C366G	2009	25C369M	2016	25C372K	2009	25C376B	2009	25C379X	2009	25C381L	2016	25C384L	2016
25C366GN	2009	25C369OR	2016	25C372L	2009	25C376C	2009	25C379Y	2009	25C381M	2016	25C384M	2016
25C366G-0	2009	25C369R	2016	25C372M	2009	25C376B	2009	25C380	2009	25C381O	2016	25C384OR	2016
25C366G-Y	2009	25C369V	2016	25C372O	2009	25C376I	2009	25C380(O)	2009	25C381OR	2016	25C384R	2016
25C366G-Y	2009	25C369X	2016	25C372OR	2009	25C376F	2009	25C380(R)	2009	25C381P	2016	25C384S	2016
25C366H	2009	25C369Y	2016	25C372T	2009	25C376G	2009	25C380(Y)	2009	25C381RED	2016	25C384T	2016
25C366I	2009	25C370	2009	25C372X	2009	25C376H	2009	25C380-0	2009	25C381REL	2016	25C384U	2016
25C366K	2009	25C370-0	2009	25C372Y	2009	25C376M	2009	25C380-O/4454C	2009	25C381RL	2016	25C384V	2016
25C366L	2009	25C370-G	2009	25C372Y1	2009	25C376N	2009	25C380-BRN	2009	25C381X	2016	25C384W	2016
25C366M	2009	25C370-O	2009	25C372YEL	2009	25C376O	2009	25C380-BRN	2009	25C381Y	2016	25C384X	2016
25C366OR	2009	25C370-T	2009	25C372YEL-G	2009	25C376P	2009	25C380-0	2009	25C382	2009	25C384Y	2016
25C366X	2009	25C370A	2009	25C372Z	2009	25C376M	2009	25C380-O/4454C	2009	25C382(BL)	2009	25C384Z	2016
25C367	2009	25C370B	2009	25C372Z	2009	25C376M	2009	25C380-OR	2009	25C382(BN)	2009	25C385	2016
25C367-0	2009	25C370C	2009	25C373	2009	25C376R	2009	25C380-ORG	2009	25C382(R)	2009	25C385A	2016
25C367-ORG-G	2009	25C370D	2009	25C373(GR)	2009	25C376R	2009	25C380-ORG	2009	25C382(R)	2009	25C385B	2016
25C367-R	2009	25C370E	2009	25C373-14	2009	25C376X	2009	25C380-RED	2009	25C382-RED	2009	25C385C	2016
25C367-RED-G	2009	25C370F	2009	25C373-G	2009	25C376Y	2009	25C380-RED	2009	25C382-RED	2009	25C385D	2016
25C367-Y	2009	25C370G	2009	25C373-O	2009	25C377	2009	25C380-RED	2009	25C382-RED	2009	25C385E	2016
25C367-YEL-G	2009	25C370GN	2009	25C373-OR	2009	25C377-BN	2009	25C380-RED	2009	25C382-RED	2009	25C385F	2016
25C367A	2009	25C370H	2009	25C373A	2009	25C377-BN	2009	25C380-RED	2009	25C382-RED	2009	25C385G	2016
25C367B	2009	25C370I	2009	25C373AL	2009	25C377-BRN	2009	25C380-RED	2009	25C382-RED	2009	25C385H	2016
25C367C	2009	25C370J	2009	25C373AL	2009	25C377-BRN	2009	25C380-RED	2009	25C382-RED	2009	25C385I	2016
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25C367E	2009	25C370L	2009	25C373C	2009	25C377-OR	2009	25C380-RED	2009	25C382-RED	2009	25C385K	2016
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25C367I	2009	25C370P	2009	25C373F	2009	25C377-ORG	2009	25C380-RED	2009	25C382-RED	2009	25C385O	2016
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25C367N	2009	25C370U	2009	25C373K	2009	25C377-ORG	2009	25C380-RED	2009	25C382-RED	2009	25C385T	2016
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25C367R	2009	25C370W	2009	25C373M	2009	25C377-ORG	2009	25C380-RED	2009	25C382-RED	2009	25C385V	2016
25C367S	2009	25C370X	2009	25C373N	2009	25C377-ORG	2009	25C380-RED	2009	25C382-RED	2009	25C385W	2016
25C367T	2009	25C370Y	2009	25C373O	2009	25C377-ORG	2009	25C380-RED	2009	25C382-RED	2009	25C385X	2016
25C367U	2009	25C370Z	2009	25C373P	2009	25C377-ORG	2009	25C380-RED	2009	25C382-RED	2009	25C385Y	2016
25C367V	2009	25C371	2009	25C373Q	2009	25C377-ORG	2009	25C380-RED	2009	25C382-RED	2009	25C386	2016
25C367W	2009	25C371-RED-D	2009	25C373R	2009	25C377-ORG	2009	25C380-RED	2009	25C382-RED	2009	25C386A	2016
25C367Y	2009	25C371-T	2009	25C373S	2009	25C377-ORG	2009	25C380-RED	2009	25C382-RED	2009	25C386B	2016
25C368	2016	25C371-G	2009	25C373T	2009	25C377-ORG	2009	25C380-RED	2009	25C382-RED	2009	25C386C	2016
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25C368-GR	2016	25C371-G	2009	25C373V	2009	25C377-ORG	2009	25C380-RED	2009	25C382-RED	2009	25C386E	2016
25C368A	2016	25C371D	2009	25C373W	2009	25C377-ORG	2009	25C380-RED	2009	25C382-RED	2009	25C386F	2016
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25C368F	2016	25C371I	2009	25C374(BL)	2016	25C377-ORG	2009	25C380-RED	2009	25C382-RED	2009	25C386K	2016
25C368G	2016	25C371J	2009	25C374(V)	2016	25C377-ORG	2009	25C380-RED	2009	25C382-RED	2009	25C386L	2016
25C368GN	2016	25C371K	2009	25C374-BL	2016	25C377-ORG	2009	25C380-RED	2009	25C382-RED	2009		

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25C387J	2016	25C394-R	2009	25C398R	2009	25C403B	2009	25C423R	1617	25C455R	2009	25C460(A)	2009
25C387K	2016	25C394-RED	2009	25C398K	2009	25C403C	2009	25C423X	1617	25C455K	2009	25C460(B)	2009
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25C387M	2016	25C394-YEL	2009	25C399	2009	25C403D	2009	25C424	1617	25C457	2009	25C460-5	2009
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25C387R	2016	25C394AP	2009	25C399B	2009	25C403F	2009	25C425	1617	25C458(A)	2009	25C460-C	2009
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25C388C	2009	25C394K	2009	25C399M	2009	25C404	2009	25C425M	1617	25C458-O	2009	25C460GN	2009
25C388D	2009	25C394L	2009	25C399OR	2009	25C404A	2009	25C425OR	1617	25C458-OR	2009	25C460H	2009
25C388E	2009	25C394M	2009	25C399R	2009	25C404B	2009	25C425R	1617	25C458-Y	2009	25C460J	2009
25C388F	2009	25C394O	2009	25C399X	2009	25C404C	2009	25C425X	1617	25C458A	2009	25C460K	2009
25C388FA	2009	25C394OR	2009	25C399Y	2009	25C404D	2009	25C425Y	1617	25C458AB	2009	25C460L	2009
25C388G	2009	25C394R	2009	25C400	1617	25C404E	2009	25C426	2009	25C458AK	2009	25C460M	2009
25C388GH	2009	25C394REB	2009	25C400-0	1617	25C404F	2009	25C427	2009	25C458B	2009	25C460OR	2009
25C388H	2009	25C394W	2009	25C400-GR	1617	25C404G	2009	25C428	2009	25C458BC	2009	25C460R	2009
25C388J	2009	25C394X	2009	25C400-O	1617	25C404GN	2009	25C433	2009	25C458BD	2009	25C460X	2009
25C388K	2009	25C394Y	2009	25C400-R	1617	25C404H	2009	25C443	2030	25C458BL	2009	25C460Y	2009
25C388L	2009	25C394YEL	2009	25C400-Y	1617	25C404J	2009	25C443A	2030	25C458BM	2009	25C461	2009
25C388M	2009	25C395	1617	25C400A	1617	25C404K	2009	25C443B	2030	25C458C	2009	25C461(8F)	2009
25C388OR	2009	25C395A	1617	25C400B	1617	25C404L	2009	25C443C	2030	25C458C/L6	2009	25C461-8F	2009
25C388R	2009	25C395A-O	1617	25C400C	1617	25C404M	2009	25C443D	2030	25C458CD	2009	25C461-A	2009
25C388TM	2009	25C395A-ORG	1617	25C400D	1617	25C404OR	2009	25C443E	2030	25C458CL	2009	25C461-B	2009
25C388Y	2009	25C395A-R	1617	25C400E	1617	25C404R	2009	25C443F	2030	25C458CLG	2009	25C461A	2009
25C389	2016	25C395A-RED	1617	25C400F	1617	25C404X	2009	25C443G	2030	25C458CN	2009	25C461AL	2009
25C389-O	2016	25C395A-Y	1617	25C400G	1617	25C404Y	2009	25C443BN	2030	25C458D	2009	25C461H	2009
25C389-OR	2016	25C395A-YEL	1617	25C400GN	1617	25C405	1617	25C443H	2030	25C458E	2009	25C461BF	2009
25C389A	2016	25C395B	1617	25C400H	1617	25C405A	1617	25C443J	2030	25C458F	2009	25C461BK	2009
25C389AFP	2016	25C395C	1617	25C400J	1617	25C405B	1617	25C443K	2030	25C458G	2009	25C461BL	2009
25C389B	2016	25C395D	1617	25C400K	1617	25C405C	1617	25C443L	2030	25C458GN	2009	25C461C	2009
25C389C	2016	25C395E	1617	25C400L	1617	25C405D	1617	25C443M	2030	25C458H	2009	25C461E	2009
25C389D	2016	25C395F	1617	25C400M	1617	25C405E	1617	25C443N	2030	25C458I	2009	25C461EP	2009
25C389E	2016	25C395G	1617	25C400OR	1617	25C405F	1617	25C443R	2030	25C458K	2009	25C461F	2009
25C389F	2016	25C395H	1617	25C400R	1617	25C405G	1617	25C443X	2030	25C458KB	2009	25C461H	2009
25C389G	2016	25C395I	1617	25C400S	1617	25C405H	1617	25C443Y	2030	25C458L	2009	25C462	2016
25C389H	2016	25C395J	1617	25C400T	1617	25C405I	1617	25C444	2009	25C458L(C)	2009	25C463	2009
25C389GN	2016	25C395K	1617	25C401	2009	25C405J	1617	25C444(B)	2009	25C458LB	2009	25C463A	2016
25C389H	2016	25C395L	1617	25C401A	2009	25C405K	1617	25C444(C)	2009	25C458LB	2009	25C463B	2016
25C389I	2016	25C395M	1617	25C401B	2009	25C405L	1617	25C444-3	2009	25C458LC	2009	25C463C	2016
25C389J	2016	25C395OR	1617	25C401C	2009	25C405M	1617	25C444-4	2009	25C458LD	2009	25C463D	2016
25C389K	2016	25C395R	1617	25C401D	2009	25C405OR	1617	25C444-C	2009	25C458LG	2009	25C463E	2016
25C389L	2016	25C395X	1617	25C401E	2009	25C405R	1617	25C444-OR	2009	25C458LG(B)	2009	25C463F	2016
25C389M	2016	25C395Y	1617	25C401F	2009	25C405X	1617	25C444A	2009	25C458LG(C)	2009	25C463G	2016
25C389N	2016	25C396	2009	25C401G	2009	25C405Y	1617	25C444B	2009	25C458LG(D)	2009	25C463GN	2016
25C389O	2016	25C397A	2016	25C401H	2009	25C406	1617	25C444B-6	2009	25C458LGA	2009	25C463H	2016
25C389P	2016	25C397B	2016	25C401I	2009	25C406A	1617	25C444B1	2009	25C458LGB	2009	25C463J	2016
25C389R	2016	25C397C	2016	25C401J	2009	25C406B	1617	25C444C	2009	25C458LGBM	2009	25C463K	2016
25C389S	2016	25C397D	2016	25C401K	2009	25C406C	1617	25C444D	2009	25C458LGC	2009	25C463L	2016
25C389T	2016	25C397E	2016	25C401L	2009	25C406D	1617	25C444E	2009	25C458LGC-6	2009	25C463M	2016
25C389U	2016	25C397F	2016	25C401M	2009	25C406E	1617	25C444F	2009	25C458LGD	2009	25C463OR	2016
25C389V	2016	25C397G	2016	25C401N	2009	25C406F	1617	25C444G	2009	25C458LGO	2009	25C463R	2016
25C389W	2016	25C397H	2016	25C401OR	2009	25C406G	1617	25C444H	2009	25C458LGR	2009	25C463X	2016
25C389X	2016	25C397I	2016	25C401R	2009	25C406H	1617	25C444I	2009	25C458LGS	2009	25C463Y	2016
25C389Y	2016	25C397J	2016	25C401S	2009	25C406I	1617	25C444J	2009	25C458M	2009	25C467	2016
25C390	2009	25C397K	2016	25C401T	2009	25C406J	1617	25C444K	2009	25C458OR	2009	25C468	1617
25C390A	2009	25C397L	2016	25C401U	2009	25C406K	1617	25C444L	2009	25C458R	2009	25C468A	1617
25C390B	2009	25C397M	2016	25C401V	2009	25C406L	1617	25C444M	2009	25C458RG5	2009	25C468B	1617
25C390C	2009	25C397N	2016	25C401W	2009	25C406M	1617	25C444N	2009	25C458X	2009	25C468H	1617
25C390D	2009	25C397OR	2016	25C401X	2009	25C406N	1617	25C444OR	2009	25C458Y	2009	25C468LGR	1617
25C390E	2009	25C397R	2016	25C401Y	2009	25C406OR	1617	25C444R	2009	25C459	2009	25C472	2058
25C390F	2009	25C397S	2016	25C401Z	2009	25C406R	1617	25C444S	2009	25C459A	2009	25C472A	2058
25C390G	2009	25C397T	2016	25C401AA	2009	25C406S	1617	25C444T	2009	25C459B	2009	25C472B	2058
25C390H	2009	25C397U	2016	25C401AB	2009	25C406T	1617	25C444U	2009	25C459C	2009	25C472C	2058
25C390I	2009	25C397V	2016	25C401AC	2009	25C406U	1617	25C444V	2009	25C459D	2009	25C472D	2058
25C390J	2009	25C397W	2016	25C401AD	2009	25C406V	1617	25C444W	2009	25C459E	2009	25C472E	2058
25C390K	2009	25C397X	2016	25C401AE	2009	25C406W	1617	25C444X	2009	25C459F	2009	25C472F	2058
25C390L	2009	25C397Y	2016	25C401AF	2009	25C406X	1617	25C444Y	2009	25C459G	2009	25C472G	2058
25C390M	2009	25C397Z	2016	25C401AG	2009	25C406Y	1617	25C444Z	2009	25C459H	2009	25C472GN	2058
25C390N	2009	25C398	2009	25C401AH	2009	25C406Z	1617	25C445	2009	25C459I	2009	25C472H	2058
25C390O	2009	25C398A	2009	25C401AI	2009	25C406AA	1617	25C445A	2009	25C459J	2009	25C472J	2058
25C390P	2009	25C398B	2009	25C401AJ	2009	25C406AB	1617	25C445B	2009	25C459K	2009	25	

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25C473AC	1617	25C477-E	2030	25C501-RSD	2030	25C516L	2030	25C534F5	2009	25C538A	1617	25C560L	2030
25C474	2009	25C477-RSD	2030	25C501-T	2030	25C516M	2030	25C534F56	2009	25C538A(Q)	1617	25C560M	2030
25C477	2016	25C477-Y	2030	25C501-YEL	2030	25C516OR	2030	25C534FZ	2009	25C538A-F	1617	25C560N	2030
25C477A	2016	25C497-YEL	2030	25C501A	2030	25C516K	2030	25C536G	2009	25C538AQ	1617	25C560R	2030
25C477B	2016	25C477A	2030	25C501B	2030	25C516X	2030	25C536G-1	2009	25C538A-F	1617	25C560S	2030
25C477C	2016	25C497B	2030	25C501C	2030	25C516Y	2030	25C536G1	2009	25C538AR	1617	25C560Y	2030
25C477D	2016	25C497C	2030	25C501D	2030	25C527	2016	25C536G2	2009	25C538A5	1617	25C561	2016
25C477E	2016	25C497D	2030	25C501E	2030	25C528	2016	25C536GF	2009	25C538K	1617	25C561-OR	2016
25C477F	2016	25C497E	2030	25C501F	2030	25C529	2009	25C536GJ	2009	25C538P	1617	25C561A	2016
25C477G	2016	25C497F	2030	25C501G	2030	25C529A	2009	25C536GK	2009	25C538Q	1617	25C561B	2016
25C477GN	2016	25C497G	2030	25C501GM	2030	25C529B	2009	25C536GL	2009	25C538R	1617	25C561C	2016
25C477H	2016	25C497H	2030	25C501M	2030	25C529C	2009	25C536GM	2009	25C538S	1617	25C561D	2016
25C477J	2016	25C497I	2030	25C501J	2030	25C529D	2009	25C536GN	2009	25C538T	1617	25C561E	2016
25C477K	2016	25C497J	2030	25C501K	2030	25C529E	2009	25C536GP	2009	25C538V	1617	25C561F	2016
25C477L	2016	25C497K	2030	25C501L	2030	25C29F	2009	25C536GT	2009	25C538W	1617	25C561G	2016
25C477M	2016	25C497L	2030	25C501M	2030	25C529G	2009	25C536GV	2009	25C539(R)	1617	25C561GN	2016
25C477OR	2016	25C497M	2030	25C501O	2030	25C529GN	2009	25C536GY	2009	25C539R	1617	25C561H	2016
25C477R	2016	25C497OR	2030	25C501OR	2030	25C529H	2009	25C536GZ	2009	25C539S	1617	25C561J	2016
25C477X	2016	25C497R	2030	25C501R	2030	25C529J	2009	25C536H	2009	25C539T	1617	25C561K	2016
25C477Y	2016	25C497RED	2030	25C501X	2030	25C529K	2009	25C536J	2009	25C541	2017	25C561L	2016
25C478	1617	25C497X	2030	25C501Y	2030	25C29L	2009	25C536K	2009	25C542	2017	25C561M	2016
25C478(D)	1617	25C497Y	2030	25C502	2030	25C529M	2009	25C536K(G)	2009	25C543	2009	25C561OF	2016
25C478-E	1617	25C498	2030	25C502-GR	2030	25C529POR	2009	25C536KE	2009	25C543A	2030	25C561R	2016
25C478-O	1617	25C498-0	2030	25C502-O	2030	25C529R	2009	25C536KF	2009	25C543B	2030	25C561X	2016
25C478A	1617	25C498-O	2030	25C502-Y	2030	25C529X	2009	25C536KNP	2009	25C543C	2030	25C561Y	2016
25C478B	1617	25C498-OR	2030	25C503A	2030	25C529Y	2009	25C536KNPFT	2009	25C543D	2030	25C562	2016
25C478C	1617	25C498-ORG	2030	25C503B	2030	25C530	2009	25C536KNP-T	2009	25C543E	2030	25C562(O)	2016
25C478D	1617	25C498-R	2030	25C503C	2030	25C531	2009	25C536L	2009	25C543F	2030	25C562-CR	2016
25C478E	1617	25C498-RED	2030	25C503D	2030	25C532	2009	25C536M	2009	25C543G	2030	25C562A	2016
25C478F	1617	25C498-Y	2030	25C503E	2030	25C532O	2009	25C536NP	2009	25C543GN	2030	25C562B	2016
25C478G	1617	25C498-YEL	2030	25C503F	2030	25C533	2009	25C536NP(F)	2009	25C543H	2030	25C562C	2016
25C478GN	1617	25C498A	2030	25C503G	2030	25C534	2009	25C536NP(F)	2009	25C543J	2030	25C562D	2016
25C478H	1617	25C498B	2030	25C503GN	2030	25C535	2016	25C536NP(G)	2009	25C543K	2030	25C562E	2016
25C478J	1617	25C498C	2030	25C503GR	2030	25C535(B)	2016	25C536NPE	2009	25C543L	2030	25C562F	2016
25C478K	1617	25C498D	2030	25C503H	2030	25C535(C)	2016	25C536NPF	2009	25C543M	2030	25C562G	2016
25C478L	1617	25C498E	2030	25C503J	2030	25C535-CR	2016	25C536NPG	2009	25C543OR	2030	25C562GN	2016
25C478M	1617	25C498F	2030	25C503K	2030	25C535A	2016	25C536NP-T	2009	25C543R	2030	25C562H	2016
25C478OR	1617	25C498G	2030	25C503L	2030	25C535ABC	2016	25C536OR	2009	25C543S	2030	25C562J	2016
25C478R	1617	25C498GN	2030	25C503M	2030	25C535AL	2016	25C536P	2009	25C543Y	2030	25C562K	2016
25C478X	1617	25C498H	2030	25C503OR	2030	25C535B	2016	25C536SP	2009	25C544	2016	25C562L	2016
25C478Y	1617	25C498I	2030	25C503N	2030	25C535C	2016	25C536SP(F)	2009	25C544A	2016	25C562M	2016
25C479	2030	25C498K	2030	25C503X	2030	25C535D	2016	25C536SP(G)	2009	25C544AG	2016	25C562N	2016
25C479A	2030	25C498L	2030	25C504	2030	25C535E	2016	25C536W	2009	25C544B	2016	25C562P	2016
25C479B	2030	25C498M	2030	25C504-GR	2030	25C535F	2016	25C536X	2009	25C544C	2016	25C562Q	2016
25C479C	2030	25C498OR	2030	25C504-O	2030	25C535G	2016	25C536Y	2009	25C544D	2016	25C562R	2016
25C479D	2030	25C498R	2030	25C504-Y	2030	25C535GN	2016	25C536Z	2009	25C544D(VHF)	2016	25C562S	2016
25C479E	2030	25C498RED	2030	25C504A	2030	25C535H	2016	25C536YF	2009	25C544E	2016	25C563(A)	2016
25C479F	2030	25C498X	2030	25C504B	2030	25C535J	2016	25C537	2009	25C544F	2016	25C563-F	2016
25C479G	2030	25C498Y	2030	25C504C	2030	25C535K	2016	25C537(F)	2009	25C544G	2016	25C563-G	2016
25C479GN	2030	25C498YEL	2030	25C504D	2030	25C535L	2016	25C537(G)	2009	25C544GN	2016	25C563-OR	2016
25C479H	2030	25C499	2009	25C504E	2030	25C535M	2016	25C537-C7	2009	25C544H	2016	25C563A	2016
25C479J	2030	25C499(A)	2009	25C504F	2030	25C535N	2016	25C537-IV	2009	25C544J	2016	25C563B	2016
25C479K	2030	25C499(B)	2009	25C504G	2030	25C535OR	2016	25C537-LC	2009	25C544K	2016	25C563C	2016
25C479L	2030	25C499(Y)	2009	25C504GM	2030	25C535R	2016	25C537E	2009	25C544L	2016	25C563D	2016
25C479M	2030	25C499-OR	2009	25C504GR	2030	25C535Y	2016	25C537BR	2009	25C544M	2016	25C563E	2016
25C479OR	2030	25C499-R	2009	25C504H	2030	25C536	2009	25C537C	2009	25C544OR	2016	25C563F	2016
25C479R	2030	25C499-R(FA-1)	2009	25C504J	2030	25C536(C)	2009	25C537C7	2009	25C544R	2016	25C563G	2016
25C479X	2030	25C499-RED	2009	25C504K	2030	25C536(D)	2009	25C537D	2009	25C544X	2016	25C563GN	2016
25C479Y	2030	25C499-RY	2009	25C504L	2030	25C536(E)	2009	25C537D1	2009	25C544Y	2016	25C563H	2016
25C492	2041	25C499-Y	2009	25C504M	2030	25C536(F)	2009	25C537D2	2009	25C545	2016	25C563J	2016
25C494	2041	25C499-Y(FA-1)	2009	25C504OR	2030	25C536(G)	2009	25C537E	2009	25C545A	2016	25C563K	2016
25C494-2L	2041	25C499-YEL	2009	25C504R	2030	25C536-D	2009	25C537F	2009	25C545B	2016	25C563L	2016
25C494-E	2041	25C499A	2009	25C504X	2030	25C536-E	2009	25C537FH	2009	25C545C	2016	25C563M	2016
25C494-T	2041	25C499B	2009	25C505	2009	25C536-F	2009	25C537G	2009	25C545D	2016	25C563N	2016
25C494A	2041	25C499C	2009	25C505(O)	2009	25C536-G	2009	25C537GV	2009	25C545E	2016	25C563OR	2016
25C494B	2041	25C499D	2009	25C505(O)	2009	25C536-OR	2009	25C537H	2009	25C545F	2016	25C563X	2016
25C494BL	2041	25C499E	2009	25C505(Y)	2009	25C536A	2009	25C537F1	2009	25C546K	2016	25C563Y	2016
25C494C	2041	25C499F	2009	25C505-O	2009	25C536AF	2009	25C537F2	2009	25C548	2017	25C564	1617
25C494D	2041	25C499FA1	2009	25C505-O	2009	25C536AG	2009	25C537FC	2009	25C550	2017	25C564(Q)	2030
25C494E	2041	25C499G	2009	25C505-Y	2009	25C536B	2009	25C537F-C7	2009	25C550A	2017	25C564(Q)(R)	2030
25C494F	2041	25C499GN	2009	25C505E	2009	25C536C	2009	25C537FC7	2009	25C551	2017	25C564A	1617
25C494G	2041	25C499H	2009	25C505G-O	2009	25C536D	2009	25C537J	2009	25C552	2017	25C564AP	1617
25C494GN	2041	25C499J	2009	25C505G-Y	2009	25C536DK	2009	25C537K	2009	25C553	2017	25C564B	1617
25C494H	2041	25C499K	2009	25C505O	2009	25C536E	2009	25C537LV	2009	25C554	2017	25C564C	1617
25C494J	2041	25C499L	2009	25C506Y	2009	25C536ED	2009	25C537TV	2009	25C555	2017	25C564D	1617
25C494K	2041	25C499M	2009	25C516	2030	25C536E	2009	25C537V	2009	25C556	2017	25C564E	1617
25C494L	2041	25C499OR	2009	25C516A	2030	25C536J	2009	25C537G2	2009	25C560A	2030	25C564F	1617
25C494M	2041	25C499R	2009	25C516B	2030	25C536EN	2009	25C537GFL	2009	25C560B	2030	25C564G	1617
25C494OR	2041	25C499RED	2009	25C516C	2030	25C536EP	2009	25C537GI	2009	25C560C	2030	25C564GN	1617
25C494R	2041	25C499RY	2009	25C516D	2030	25C536ER	2009	25C537H	2009	25C560D</			

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2SC564Q	1617	2SC594G	1617	2SC613K	2016	2SC62A	1617	2SC634AL	2009	2SC644L	2016	2SC650L	2009
2SC564QC	1617	2SC594GN	1617	2SC613Y	2016	2SC629	2058	2SC634AXL	2009	2SC644M	2016	2SC650M	2009
2SC564R	1617	2SC594H	1617	2SC618	2016	2SC629-31	2058	2SC634B	2009	2SC644OR	2016	2SC650OR	2009
2SC564S	1617	2SC594J	1617	2SC618A	2016	2SC629-41	2058	2SC634C	2009	2SC644P	2016	2SC650R	2009
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
25C662G	2016	25C673B	2016	25C687	2041	25C694	2016	25C710	2009	25C713	2009	25C717F	2016
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25C668F	2016	25C684F	2016	25C693GS	2016	25C709C	2009	25C712E	2009	25C716H	2009	25C733-ORG	2016
25C668G	2016	25C684G	2016	25C693GU	2016	25C709CD	2009	25C712F	2009	25C716J	2009	25C733-1	2016
25C668GN	2016	25C684GN	2016	25C693GZ	2016	25C709D	2009	25C712G	2009	25C716K	2009	25C733-YEL	2016
25C668H	2016	25C684H	2016	25C693H	2016	25C709E	2009	25C712GN	2009	25C716L	2009	25C733A	2016
25C668K	2016	25C684J	2016	25C693J	2016	25C709F	2009	25C712H	2009	25C716M	2009	25C733B	2016
25C668L	2016	25C684K	2016	25C693K	2016	25C709G	2009	25C712J	2009	25C716OR	2009	25C733BL	2016
25C668M	2016	25C684L	2016	25C693L	2016	25C709GN	2009	25C712K	2009	25C716R	2009		

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25C733GN	2016	25C735M	2009	25C752B	2009	25C767	2041	25C784(R)	2058	25C786L	2016	25C794L	2041
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25C733H	2016	25C735RED	2009	25C752E	2009	25C771B	2058	25C784-B	2058	25C786R	2016	25C794RA	2041
25C733J	2016	25C735X	2009	25C752F	2009	25C771BX	2058	25C784-BN	2058	25C786X	2016	25C794X	2041
25C733K	2016	25C735Y	2009	25C752G	2009	25C771C	2058	25C784-BRN	2058	25C786Y	2016	25C794Y	2041
25C733L	2016	25C735YEL	2009	25C752GA	2009	25C771D	2058	25C784-O	2058	25C787	2016	25C796	1617
25C733M	2016	25C735YFA-5	2009	25C752GN	2009	25C771E	2058	25C784-OR	2058	25C787A	2016	25C796A	1617
25C733O	2016	25C737	2009	25C752G-O	2009	25C771F	2058	25C784-ORG	2058	25C787B	2016	25C796B	1617
25C733OR	2016	25C737Y	2009	25C752G-R	2009	25C771G	2058	25C784-R	2058	25C787C	2016	25C796C	1617
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25C733Y	2016	25C738F	2016	25C752L	2009	25C771OR	2058	25C784BRN	2058	25C787K	2016	25C796J	1617
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25C734(O)	2009	25C738H	2016	25C752R	2009	25C771Y	2058	25C784E	2058	25C787OR	2016	25C796M	1617
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25C734-O	2009	25C738L	2016	25C754	2009	25C772A	2058	25C784GN	2058	25C787Y	2016	25C796X	1617
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25C734-O	2009	25C738X	2016	25C761	2016	25C772BV	2058	25C784L	2058	25C789-R	2020	25C797B	2009
25C734-OR	2009	25C738Y	2016	25C761(Y)	2016	25C772B	2058	25C784M	2058	25C789-Y	2020	25C797C	2009
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25C734-Y	2009	25C739D	2016	25C761E	2016	25C772CA	2058	25C784RA	2058	25C789E	2020	25C797GN	2009
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25C734B	2009	25C739G	2016	25C761GN	2016	25C772CS	2058	25C785	2058	25C789GN	2020	25C797K	2009
25C734C	2009	25C739GN	2016	25C761H	2016	25C772CU	2058	25C785(E)(D)	2058	25C789H	2020	25C797L	2009
25C734D	2009	25C739H	2016	25C761J	2016	25C772CV	2058	25C785(R)	2058	25C789J	2020	25C797M	2009
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25C734GN	2009	25C739OR	2016	25C761OR	2016	25C772DU	2058	25C785-BRN	2058	25C789OR	2020	25C797Y	2009
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25C735(O)	2009	25C740OR	2016	25C762L	2016	25C772M	2058	25C785F	2058	25C793A	2041	25C814OR	2009
25C735(Y)	2009	25C740R	2016	25C762M	2016	25C772OR	2058	25C785G	2058	25C793B	2041	25C814R	2009
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25C735-GRN	2009	25C744	2030	25C762Y	2016	25C772RD	2058	25C785H	2058	25C793E	2041	25C815	2009
25C735-O	2009	25C744A	2030	25C763	2016	25C772RS-D	2058	25C785JA	2058	25C793F	2041	25C815(K)	2009
25C735-OR	2009	25C748	2016	25C763(C)	2016	25C772X	2058	25C785K	2058	25C793G	2041	25C815(L)	2009
25C735-ORG	2009	25C748A	2016	25C763-C	2016	25C772Y	2058	25C785L	2058	25C793GN	2041	25C815-1	2009
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25C735-OY	2009	25C748D	2016	25C763A	2016	25C773(E)	2009	25C785O	2058	25C793J	2041	25C815B	2009
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25C818X	2009	25C820GN	2009	25C838(O)	2009	25C849H	1617	25C863A	2016	25C875K	2020	25C899D	1617
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25C827R	2030	25C829Y	2009	25C847G	1617	25C859B	2016	25C871H	2009	25C894G	2009	25C900G	2016
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25C827Y	2030	25C835	2016	25C847H	1617	25C859E	2016	25C871K	2009	25C894H	2009	25C900I	2016
25C828	2030	25C836	2016	25C847J	1617	25C859FG	2016	25C871L	2009	25C894J	2009	25C900J	2016
25C828(A)	2030	25C836M	2016	25C847K	1617	25C859G	2016	25C871M	2009	25C894K	2009	25C900K	2016
25C828(H)	2009	25C837	2058	25C847L	1617	25C859GK	2016	25C871OR	2009	25C894L	2009	25C900L	2016
25C828(N)	2009	25C837(K)	2058	25C847M	1617	25C859GL	2016	25C871R	2009	25C894M	2009	25C900M	2016
25C828(O)	2009	25C837(KL)	2058	25C847OR	1617	25C859GML	2016	25C871S	2009	25C894OR	2009	25C900N	2016
25C828(P)	2009	25C837(L)	2058	25C847OR	1617	25C859GM	2016	25C871Y	2009	25C894R	2009	25C900O	2016
25C828(P)(Q)	2009	25C837(L)	2058	25C847R	1617	25C859GN	2016	25C871Y	2009	25C894S	2009	25C900P	2016
25C828(Q)	2009	25C837A	2058	25C847X	1617	25C859N	2016	25C875(D)	2030	25C894X	2009	25C900Q	2016
25C828(R)	2009	25C837C	2058	25C848	1617	25C859P	2016	25C875(E)	2030	25C894Y	2009	25C900R	2016
25C828(R)(Q)	2009	25C837C	2058	25C848A	1617	25C859Q	2016	25C875(F)	2030	25C896	1617	25C900S	2016
25C828(R)(S)	2009	25C837D	2058	25C848B	1617	25C859R	2016	25C875-1	2030	25C896A	1617	25C900T	2016
25C828(R,Q,P)	2009	25C837E	2058	25C848C	1617	25C859S	2016	25C875-1C	2030	25C896B	1617	25C900U	2016
25C828(R,S,T)	2009	25C837F	2058	25C848D	1617	25C859OR	2016	25C875-1D	2030	25C896C	1617	25C900V	2016
25C828(S)	2009	25C837G	2058	25C848E	1617	25C859R	2016	25C875-1E	2030	25C896D	1617	25C900W	2016
25C828(S)(T)	2009	25C837GN	2058	25C848E	1617	25C859R	2016	25C875-1F	2030	25C896E	1617	25C900X	2016
25C828(T)	2009	25C837H	2058	25C848F	1617	25C859X	2016	25C875-2	2030	25C896F	1617	25C900Y	2016
25C828-O	2009	25C837I	2058	25C848G	1617	25C860	2016	25C875-2C	2030	25C896G	1617	25C900Z	2016
25C828-O	2009	25C837K	2058	25C848GN	1617	25C860A	2016	25C875-2D	2030	25C896GN	1617	25C900A	2016
25C828-O	2009	25C837KL	2058	25C848H	1617	25C860B	2016	25C875-2E	2030	25C896J	1617	25C900B	2016
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25C828A	2009	25C837M	2058	25C848C	1617	25C860D	2016	25C875-3	2030	25C896L	1617	25C900D	2016
25C828A(P)	2009	25C837OR	2058	25C848D	1617	25C860E	2016	25C875-3C	2030	25C896M	1617	25C900E	2016
25C828A(Q)	2009	25C837R	2058	25C848E	1617	25C860F	2016	25C875-3D	2030	25C896N	1617	25C900F	2016
25C828A(R)	2009	25C837WF	2058	25C848OR	1617	25C860G	2016	25C875-3E	2030	25C896OR	1617	25C900G	2016
25C828A(S)	2009	25C837X	2058	25C848R	1617	25C860GN	2016	25C875-3F	2030	25C896R	1617	25C900H	2016
25C828AO	2009	25C837Y	2058	25C848S	1617	25C860H	2016	25C875-3G	2030	2			

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25C917D	2016	25C923(E)	2016	25C928	2016	25C930M	2016	25C936L	2055	25C945A(Q)	2009	25C957B	2016
25C917E	2016	25C923(E)(F)	2016	25C928A	2016	25C930MP	2016	25C936M	2055	25C945A(Q,R)	2009	25C957C	2016
25C917F	2016	25C923(F)	2016	25C928B	2016	25C930OR	2016	25C936OR	2055	25C945A(R)	2009	25C957D	2016
25C917G	2016	25C923A	2016	25C928C	2016	25C930R	2016	25C936R	2055	25C945A(D)	2009	25C957E	2016
25C917GN	2016	25C923B	2016	25C928D	2016	25C930SP	2016	25C936X	2055	25C945AK	2009	25C957F	2016
25C917H	2016	25C923C	2016	25C928E	2016	25C930X	2016	25C936Y	2055	25C945AKT	2009	25C957G	2016
25C917J	2016	25C923D	2016	25C928F	2016	25C930Y	2016	25C938	2009	25C945AP	2009	25C957GN	2016
25C917K	2016	25C923E	2016	25C928G	2016	25C932	2017	25C938-O	2009	25C945APT	2009	25C957H	2016
25C917L	2016	25C923F	2016	25C928GN	2016	25C932(E)	2017	25C938A	2009	25C945AQ	2009	25C957J	2016
25C917M	2016	25C923G	2016	25C928H	2016	25C932A	2017	25C938B	2009	25C945AR	2009	25C957K	2016
25C917O	2016	25C923GN	2016	25C928J	2016	25C932B	2017	25C938C	2009	25C945B	2009	25C957L	2016
25C917R	2016	25C923H	2016	25C928K	2016	25C932B(M)	2017	25C938D	2009	25C945C	2009	25C957M	2016
25C917X	2016	25C923K	2016	25C928L	2016	25C932C	2017	25C938E	2009	25C945D	2009	25C957OR	2016
25C917Y	2016	25C923L	2016	25C928M	2016	25C932D	2017	25C938F	2009	25C945E	2009	25C957R	2016
25C918	2058	25C923M	2016	25C928OR	2016	25C932E	2017	25C938G	2009	25C945F	2009	25C957X	2016
25C918A	2058	25C923OR	2016	25C928R	2016	25C932F	2017	25C938GN	2009	25C945G	2009	25C957XL	2016
25C918AL	2058	25C923R	2016	25C928X	2016	25C932G	2017	25C938H	2009	25C945GN	2009	25C957Y	2016
25C918B	2058	25C923X	2016	25C928Y	2016	25C932GN	2017	25C938J	2009	25C945H	2009	25C959	2030
25C918C	2058	25C923Y	2016	25C929	2016	25C932H	2017	25C938K	2009	25C945J	2009	25C959A	2030
25C918D	2058	25C924	2016	25C929(O)	2016	25C932J	2017	25C938L	2009	25C945K	2009	25C959B	2030
25C918E	2058	25C924A	2016	25C929(E)	2016	25C932K	2017	25C938M	2009	25C945L	2009	25C959C	2030
25C918F	2058	25C924B	2016	25C929-O	2016	25C932L	2017	25C938OR	2009	25C945LP	2009	25C959D	2030
25C918G	2058	25C924C	2016	25C929-O	2016	25C932M	2017	25C938R	2009	25C945LQ	2009	25C959E	2030
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25C918H	2058	25C924E	2016	25C929B	2016	25C932R	2017	25C938Y	2009	25C945OR	2009	25C959G	2030
25C918J	2058	25C924F	2016	25C929C	2016	25C932X	2017	25C941	2009	25C945P	2009	25C959GN	2030
25C918K	2058	25C924G	2016	25C929C1	2016	25C932Y	2017	25C941(O)	2009	25C945PJ	2009	25C959H	2030
25C918L	2058	25C924GN	2016	25C929D	2016	25C933	2009	25C941(O),(R)	2009	25C945P1	2009	25C959J	2030
25C918LF	2058	25C924H	2016	25C929D1	2016	25C933(D)	2009	25C941(R)	2009	25C945PQ	2009	25C959K	2030
25C918M	2058	25C924J	2016	25C929DE	2016	25C933(F)	2009	25C941-04	2009	25C945Q	2009	25C959L	2030
25C918OR	2058	25C924K	2016	25C929DP	2016	25C933(G)	2009	25C941-0Y	2009	25C945QL	2009	25C959M	2030
25C918R	2058	25C924L	2016	25C929DV	2016	25C933A	2009	25C941-O	2009	25C945QP	2009	25C959OR	2030
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25C920	2058	25C924X	2016	25C929EZ	2016	25C933D	2009	25C941K	2009	25C945T	2009	25C959SB	2030
25C920-OQ	2058	25C924Y	2016	25C929F	2016	25C933D(F)	2009	25C941O	2009	25C945TK	2009	25C959SC	2030
25C920-OR	2058	25C925	2009	25C929FK	2016	25C933E	2009	25C941R	2009	25C945TP	2009	25C959SD	2030
25C920A	2058	25C925(M)	2009	25C929G	2016	25C933E(F)	2009	25C941TM	2009	25C945TQ	2009	25C959X	2030
25C920B	2058	25C925A	2009	25C929GN	2016	25C933F	2009	25C941TM-O	2009	25C945X	2009	25C959Y	2030
25C920C	2058	25C925B	2009	25C929H	2016	25C933FB	2009	25C941Y	2009	25C945Y	2009	25C963	1617
25C920CL	2058	25C925C	2009	25C929J	2016	25C933FP	2009	25C947	1617	25C947	2016	25C964	1617
25C920D	2058	25C925D	2009	25C929K	2016	25C933G	2009	25C943	1617	25C947A	2016	25C965	1617
25C920E	2058	25C925E	2009	25C929L	2016	25C933GN	2009	25C943A	1617	25C947B	2016	25C966	1617
25C920F	2058	25C925F	2009	25C929M	2016	25C933H	2009	25C943B	1617	25C947C	2016	25C966A	1617
25C920G	2058	25C925G	2009	25C929NP	2016	25C933J	2009	25C943C	1617	25C947D	2016	25C966B	1617
25C920GN	2058	25C925GN	2009	25C929OR	2016	25C933K	2009	25C943D	1617	25C947E	2016	25C966C	1617
25C920H	2058	25C925H	2009	25C929R	2016	25C933L	2009	25C943E	1617	25C947F	2016	25C966D	1617
25C920L	2058	25C925J	2009	25C929SP	2016	25C933M	2009	25C943F	1617	25C947G	2016	25C966E	1617
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25C920R	2058	25C925OR	2009	25C930(C)	2016	25C933Y	2009	25C943J	1617	25C947K	2016	25C966H	1617
25C920X	2058	25C925R	2009	25C930(D)	2016	25C934	1617	25C943K	1617	25C947L	2016	25C966J	1617
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25C921(L)	2016	25C927	2016	25C930-OR	2016	25C934B	1617	25C943OR	1617	25C947R	2016	25C966M	1617
25C921(VHF)	2016	25C927(C)	2016	25C930A	2016	25C934C	1617	25C943R	1617	25C947X	2016	25C966OR	1617
25C921A	2016	25C927(D)	2016	25C930B	2016	25C934D	1617	25C943X	1617	25C947Y	2016	25C966R	1617
25C921B	2016	25C927(E)	2016	25C930BK	2016	25C934E	1617	25C943Y	1617	25C948	2016	25C966X	1617
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25C921D	2016	25C927C(E)	2016	25C930CL	2016	25C934H	1617	25C945	2009	25C948E	2016	25C967B	1617
25C921E	2016	25C927C(K)	2016	25C930CS	2016	25C934J	1617	25C945(K)	2009	25C948F	2016	25C967C	1617
25C921F	2016	25C927CJ	2016	25C930D	2016	25C934K	1617	25C945(L)	2009	25C948G	2016	25C967D	1617
25C921G	2016	25C927CK	2016	25C930DB	2016	25C934L	1617	25C945(P)	2009	25C948GN	2016	25C967E	1617
25C921GN	2016	25C927CT	2016	25C930DC	2016	25C934M	1617	25C945(Q)	2009	25C948H	2016	25C967F	1617
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25C921L	2016	25C927E	2016	25C930DT	2016	25C934X	1617	25C945(TQ,Q)	2009	25C948M	2016	25C967J	1617
25C921M	2016	25C927E,Z	2016	25C930DT-2	2016	25C934Y	1617	25C945(TQ,Q)	2009	25C948OR	2016	25C967K	1617
25C921OR	2016	25C927F	2016	25C930DX	2016	25C936	2055	25C945(TQ,Q)	2009	25C948R	2016	25C967L	1617
25C921R	2016	25C927G	2016	25C930DZ	2016	25C936(BK)	2055	25C945-O	2009	25C948X	2016	25C967M	1617
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25C1170D	2055	25C1206B	2030	25C1222D	2016	25C1318(F)	2009	25C1335N	2016	25C1362(47)	2009	25C1417	2016
25C1170E	2055	25C1209	2009	25C1222E	2016	25C1318(P,R)	2009	25C1335P	2016	25C1363	2009	25C1417(G)	2016
25C1170F	2055	25C1209(C)	2009	25C1222H	2016	25C1318(Q)	2009	25C1335X	2016	25C1364	2009	25C1417(V)	2016
25C1170FA-2	2055	25C1209(D)	2009	25C1222U	2016	25C1318(R)	2009	25C1335Y	2016	25C1364-6	2009	25C1417(V,G)	2016
25C1170G	2055	25C1209C	2009	25C1236	2058	25C1318B	2009	25C1336	2016	25C1364-8	2009	25C1417(W)	2016
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25C1170M	2055	25C1213	2009	25C1246S	2009	25C1318H	2009	25C1342-OR	2016	25C1364E	2009	25C1417W	2016
25C1170Q	2055	25C1213(A)	2009	25C1246T	2009	25C1318J	2009	25C1342A	2016	25C1364H	2009	25C1418	2020
25C1170R	2055	25C1213(B)	2009	25C1247	2009	25C1318K	2009	25C1342B	2016	25C1364K	2009	25C1419	2020
25C1170X	2055	25C1213(C)	2009	25C1247A	2009	25C1318L	2009	25C1342C	2016	25C1364L	2009	25C1419-C	2020
25C1170Y	2055	25C1213(D)	2009	25C1247AF	2009	25C1318M	2009	25C1342D	2016	25C1364M	2009	25C1419B	2020
25C1171	2055	25C1213-OR	2009	25C1254	2016	25C1318P	2009	25C1342E	2016	25C1364OR	2009	25C1419C	2020
25C1172	2055	25C1213A	2009	25C1266	2030	25C1318PR	2009	25C1342F	2016	25C1364R	2009	25C1427	2058
25C1172A	2055	25C1213A(C)	2009	25C1274	1617	25C1318Q	2009	25C1342G	2016	25C1364X	2009	25C1428	2016
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25C1172C	2055	25C1213AB	2009	25C1281	2009	25C1318QR	2009	25C1342J	2016	25C1367	2035	25C1439	2009
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25C1172F	2055	25C1213AK	2009	25C1293	2016	25C1318Y	2009	25C1342M	2016	25C1372Y	2009	25C1453	2016
25C1172G	2055	25C1213AKB	2009	25C1293(A)	2016	25C1319	2016	25C1342OR	2016	25C1373	2016	25C1466	2055
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25C1172H	2055	25C1213AKD	2009	25C1293B	2016	25C1320	2058	25C1342X	2016	25C1374H	2016	25C1478	2058
25C1172J	2055	25C1213B	2009	25C1293C	2016	25C1320(K)	2058	25C1342Y	2016	25C1375	2016	25C1478A	2058
25C1172K	2055	25C1213BC	2009	25C1293D	2016	25C1320A	2058	25C1343	2041	25C1375H	2016	25C1537	2016
25C1172L	2055	25C1213C	2009	25C1295	2055	25C1320B	2058	25C1343-05	2041	25C1376	2009	25C1537(S)	2016
25C1172M	2055	25C1213CD	2009	25C1295(O)	2055	25C1320C	2058	25C1343B	2041	25C1376B	2009	25C1537-O	2016
25C1172R	2055	25C1213D	2009	25C1295-0	2055	25C1320D	2058	25C1343BL	2041	25C1380	1617	25C1537B	2016
25C1172X	2055	25C1213D-24	2009	25C1295-0	2055	25C1320E	2058	25C1343D	2041	25C1380-BL	1617	25C1538	2016
25C1172Y	2055	25C1213E	2009	25C1296	2055	25C1320F	2058	25C1343E	2041	25C1380-GR	1617	25C1538S	2016
25C1173	2020	25C1213F	2009	25C1300	2055	25C1320G	2058	25C1343F	2041	25C1380A	1617	25C1538S(A)	2016
25C1173(O)	2020	25C1213G	2009	25C1308	2055	25C1320GN	2058	25C1343G	2041	25C1380A-BL	1617	25C1538SA	2016
25C1173(X)	2020	25C1213GN	2009	25C1308(K)	2055	25C1320H	2058	25C1343GN	2041	25C1380A-GR	1617	25C1539	2009
25C1173-0	2020	25C1213H	2009	25C1308K	2055	25C1320J	2058	25C1343G-R	2041	25C1385	1617	25C1540	2009
25C1173-B	2020	25C1213J	2009	25C1308L	2055	25C1320K	2058	25C1343GR	2041	25C1385H	1617	25C1540	2009
25C1173-C	2020	25C1213K	2009	25C1308N	2055	25C1320L	2058	25C1343M	2041	25C1386	2030	25C1541	2009
25C1173-GH	2020	25C1213L	2009	25C1309	2055	25C1320M	2058	25C1343J	2041	25C1386	2030	25C1542	2016
25C1173-O	2020	25C1213M	2009	25C1310	2009	25C1320N	2058	25C1343K	2041	25C1390	2009	25C1543	2058
25C1173-K	2020	25C1213Q	2009	25C1311	2009	25C1320P	2058	25C1343L	2041	25C1390(L)	2009	25C1544	2009
25C1173-Y	2020	25C1213R	2009	25C1312	2016	25C1320Q	2058	25C1343M	2041	25C1390(L,Y)	2009	25C1547	2016
25C1173A	2020	25C1213X	2009	25C1312A	2016	25C1320Y	2058	25C1343O	2041	25C1390(V)	2009	25C1553	2016
25C1173B	2020	25C1213Y	2009	25C1312BC	2016	25C1321	2016	25C1343OR	2041	25C1390(W)	2009	25C1570	2016
25C1173GR	2020	25C1214	2009	25C1312C	2016	25C1321Q2	2016	25C1343R	2041	25C1390(X)	2009	25C1570FL	2016
25C1173R	2020	25C1214(B)	2009	25C1312D	2016	25C1321Q3	2016	25C1343X	2041	25C1390(Y)	2009	25C1570GL	2016
25C1173X	2020	25C1214A	2009	25C1312E	2016	25C1321Q4	2016	25C1343Y	2041	25C1390(W)	2009	25C1570HL	2016
25C1173(X,Y)	2020	25C1214B	2009	25C1312F	2016	25C1321Q5	2016	25C1344	2016	25C1390IW	2009	25C1570LH	2016
25C1173XG	2020	25C1214C	2009	25C1312G	2016	25C1322	2041	25C1344E	2016	25C1390JH	2009	25C1571G	2016
25C1173XY	2020	25C1214D	2009	25C1312GN	2016	25C1325	2055	25C1344E	2016	25C1390JX	2009	25C1571H	2016
25C1173Y	2020	25C1215	2016	25C1312H	2016	25C1325A	2055	25C1344D	2016	25C1390W	2009	25C1574	2041
25C1175	2009	25C1215C	2016	25C1312J	2016	25C1325AK	2055	25C1344E	2016	25C1390WH	2009	25C1596	2009
25C1175(C)	2009	25C1215D	2016	25C1312K	2016	25C1325AL	2055	25C1344F	2016	25C1390WX	2009	25C1601	2058
25C1175(D,E,F)	2009	25C1215E	2016	25C1312L	2016	25C1327	2016	25C1345	2016	25C1390X	2009	25C1606	2017
25C1175C	2009	25C1215F	2016	25C1312M	2016	25C1327F5	2016	25C1345(E)	2016	25C1390XK	2009	25C1607	2009
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25C1175F	2009	25C1215M	2016	25C1313	2016	25C1327V	2016	25C1345G	2016	25C1393M	2058	25C1621B4	2016
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25C1182	2016	25C1215OR	2016	25C1313Y	2016	25C1328(U)	2016	25C1352	2009	25C1396	2016	25C1622D6	2016
25C1182B	2016	25C1215R	2016	25C1317	2009	25C1328(U,T)	2016	25C1358	2055	25C1398	2020	25C1622D7	2016
25C1182C	2016	25C1215X	2016	25C1317(P)	2009	25C1328T	2016	25C1358A	2055	25C1398(Q)	2020	25C1622D8	2016
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25C1184B	2055	25C1219	2009	25C1317-R	2009	25C1335(B)	2016	25C1358S	2055	25C1411	1617	25C1623L3	2016
25C1184C	2055	25C1220	2009	25C1317A	2009	25C1335(C)	2016	25C1358T	2055	25C1413	2055	25C1623L4	2016
25C1184D	2055	25C1220(H)	2009	25C1317BC	2009	25C1335(D)	2016	25C1358U	2055	25C1413A	2055	25C1623L5	2016
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25C1634Y	2020	25C1684R	2009	25C1773	2041	25C1894(AKV)	2055	25C2021MS	2016	25C2350	2020	25C2785EF	2009
25C1627	2009	25C1684S	2009	25C1774	2009	25C1894K	2055	25C2021P	2016	25C2352	2058	25C2785EF	2009
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25C1627-Y	2009	25C1685(C)	2009	25C1778	2058	25C1896	2055	25C2021RJ	2016	25C2362H	2016	25C2785FF	2009
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25C1636(22)	2016	25C1685CR	2009	25C1789	2016	25C1908H	2058	25C2057K	2058	25C2398	2041	25C2839-D	2009
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25C1652(R)	2009	25C1686V	2058	25C1815-O	2009	25C1959GF	2009	25C2110	2009	25C2545F	2016	25C3112(A)	2016
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25C1652M	2009	25C1707AH	1617	25C1815-YFA	2009	25C1976	2009	25C2120(Y)	2009	25C2561	2016	25C3114(T)	2009
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25C1658(R)	2009	25C1707HC	1617	25C1815GR	2009	25C1989	2016	25C2120FA	2009	25C2575L	2009	25C3179(J)	2020
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25C1681V	2016	25C1740RV	2009	25C1853B	2009	25C2002(Q)	2009	25C2274-I	2009	25C2710-Y	2009	25C3299Y	2058
25C1682	2016	25C1740RZ	2009	25C1853C	2009	25C2002(R)	2009	25C2274-J	2009	25C2710-Y	2009	25C3299Y	2058
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25C1684(Q,R)	2009	25C1740S(R)	2009</										

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25C3940K	2058	25CF2R	2058	25C5429	2058	25D29	2020	25D91Y	2020	25D147K	2020	25D180G	2041
25C3940L	2058	25CF2X	2058	25C5429A	2058	25D29A	2020	25D91Y	2041	25D147L	2020	25D180GN	2041
25C3940M	2058	25CF2Y	2058	25C5429B	2058	25D29B	2020	25D108	2041	25D147M	2020	25D180H	2041
25C3940OR	2058	25CF5	1617	25C5429C	2058	25D29E	2020	25D110	2041	25D147OR	2020	25D180J	2041
25C3940R	2058	25CF5A	2009	25C5429D	2058	25D29F	2020	25D110-0	2041	25D147R	2020	25D180K	2041
25C3940S	2058	25CF5B	2009	25C5429E	2058	25D29GN	2020	25D110-0	2041	25D147S	2020	25D180L	2041
25C3940T	2058	25CF5C	2009	25C5429F	2058	25D29J	2020	25D110-ORG	2041	25D147T	2020	25D180M	2041
25C4033	2058	25CF5D	2009	25C5429G	2058	25D29K	2020	25D110-R	2041	25D147U	2020	25D180N	2041
25C4033A	2058	25CF5E	2009	25C5429GN	2058	25D29L	2020	25D110-RED	2041	25D147V	2020	25D180P	2041
25C4033B	2058	25CF5F	2009	25C5429H	2058	25D29M	2020	25D110-Y	2041	25D147W	2020	25D180Q	2041
25C4033C	2058	25CF5G	2009	25C5429J	2016	25D29OR	2020	25D110-YEL	2041	25D147X	2020	25D180R	2041
25C4033D	2058	25CF5GN	2009	25C5429K	2058	25D29R	2020	25D111	2041	25D147Y	2020	25D180S	2041
25C4033E	2058	25CF5H	2009	25C5429L	2058	25D29S	2020	25D111-O	2041	25D147Z	2020	25D180T	2041
25C4033F	2058	25CF5J	2009	25C5429M	2058	25D29Y	2020	25D111-ORG	2041	25D147A	2020	25D180U	2041
25C4033G	2058	25CF5K	2009	25C5429OR	2058	25D33	2016	25D111-R	2041	25D147B	2020	25D180V	2041
25C4033GN	2058	25CF5L	2009	25C5429R	2058	25D33A	2016	25D111-RED	2041	25D147C	2020	25D180W	2041
25C4033H	2058	25CF5M	2009	25C5429S	2058	25D33B	2016	25D111-Y	2041	25D147D	2020	25D180X	2041
25C4033J	2058	25CF5OR	2009	25C5429Y	2058	25D33C	2016	25D111-YEL	2041	25D147E	2020	25D180Y	2041
25C4033K	2058	25CF5R	2009	25C5430	2058	25D33D	2016	25D111R	2041	25D147F	2020	25D180Z	2041
25C4033L	2058	25CF5X	2009	25C5430A	2058	25D33E	2016	25D116	2041	25D147G	2020	25D180A	2041
25C4033M	2058	25CF5Y	2009	25C5430B	2058	25D33F	2016	25D118	2041	25D147H	2020	25D180B	2041
25C4033OR	2058	25C-F6	2009	25C5430C	2058	25D33G	2016	25D118BL	2041	25D147I	2020	25D180C	2041
25C4033R	2058	25CF6A	2030	25C5430D	2058	25D33GN	2016	25D118R	2041	25D147J	2020	25D180D	2041
25C4033X	2058	25CF6B	2030	25C5430E	2058	25D33H	2016	25D118Y	2041	25D147K	2020	25D180E	2041
25C4033Y	2058	25CF6C	2030	25C5430F	2058	25D33J	2016	25D119	2041	25D147L	2020	25D180F	2041
25C4116	2020	25CF6D	2030	25C5430GN	2058	25D33K	2016	25D119-BL	2041	25D147M	2020	25D180G	2041
25C4116A	2020	25CF6E	2030	25C5430H	2016	25D33L	2016	25D119-BLU	2041	25D147N	2020	25D180H	2041
25C4116B	2020	25CF6F	2030	25C5430J	2058	25D33OR	2016	25D119-B	2041	25D147P	2020	25D180I	2041
25C4116C	2020	25CF6G	2030	25C5430K	2058	25D33X	2016	25D119-RID	2041	25D147Q	2020	25D180J	2041
25C4116D	2020	25CF6GN	2030	25C5430L	2058	25D33Y	2016	25D119-Y	2041	25D147R	2020	25D180K	2041
25C4116E	2020	25CF6H	2030	25C5430M	2058	25D48	2020	25D119-YEL	2041	25D147S	2020	25D180L	2041
25C4116F	2020	25CF6J	2030	25C5430R	2058	25D49	2020	25D119A	2041	25D147T	2020	25D180M	2041
25C4116G	2020	25CF6K	2030	25C5430X	2058	25D49A	2020	25D119B	2041	25D147U	2020	25D180N	2041
25C4116GN	2020	25CF6L	2030	25C5430Y	2058	25D49B	2020	25D119BL	2041	25D147V	2020	25D180P	2041
25C4116H	2020	25CF6M	2030	25C5461	2058	25D49C	2020	25D119C	2041	25D147W	2020	25D180Q	2041
25C4116J	2020	25CF6OR	2030	25C5461A	2058	25D49D	2020	25D119D	2041	25D147X	2020	25D180R	2041
25C4116K	2020	25CF6R	2030	25C5461B	2058	25D49E	2020	25D119R	2041	25D147Y	2020	25D180S	2041
25C4116L	2020	25CF6X	2030	25C5461C	2058	25D49F	2020	25D119Y	2041	25D147Z	2020	25D180T	2041
25C4116M	2020	25CF6Y	2030	25C5461D	2058	25D49G	2020	25D122	2020	25D147A	2020	25D180U	2041
25C4116OR	2020	25C-F11	2058	25C5461E	2058	25D49GN	2020	25D123	2020	25D147B	2020	25D180V	2041
25C4116R	2020	25C-F11A	2058	25C5461F	2016	25D49J	2020	25D123	2020	25D147C	2020	25D180W	2041
25C4116X	2020	25C-F11B	2058	25C5461G	2058	25D49K	2020	25D123	2020	25D147D	2020	25D180X	2041
25C4116Y	2020	25C-F11C	2058	25C5461GN	2058	25D49L	2020	25D123	2020	25D147E	2020	25D180Y	2041
25C5120	2017	25C-F11D	2058	25C5461H	2058	25D49M	2020	25D123	2020	25D147F	2020	25D180Z	2041
25C5130	2017	25C-F11E	2058	25C5461I	2058	25D49OR	2020	25D123	2020	25D147G	2020	25D180A	2041
25C5430OR	2058	25C-F11F	2058	25C5461K	2058	25D49R	2020	25D123	2020	25D147H	2020	25D180B	2041
25C8190	2009	25C-F11G	2058	25C5461L	2058	25D49X	2020	25D123	2020	25D147I	2020	25D180C	2041
25C9011E	2009	25C-F11GN	2058	25C5461M	2058	25D49Y	2020	25D123	2020	25D147J	2020	25D180D	2041
25C9011F	2009	25C-F11H	2058	25C5461OR	2058	25D52	2041	25D123	2020	25D147K	2020	25D180E	2041
25C9011H	2009	25C-F11J	2058	25C5461R	2058	25D67	2041	25D123	2020	25D147L	2020	25D180F	2041
25C10148	2017	25C-F11K	2058	25C5461X	2058	25D67B	2041	25D123	2020	25D147M	2020	25D180G	2041
25C11070	2017	25C-F11L	2058	25C5461Y	2058	25D67C	2041	25D123	2020	25D147N	2020	25D180H	2041
25C14505	2020	25C-F11M	2058	25C5469	2058	25D67D	2041	25D123	2020	25D147P	2020	25D180I	2041
25C17401	1617	25C-F11OR	2058	25C5469A	2058	25D67E	2041	25D123	2020	25D147Q	2020	25D180J	2041
25C17445	1617	25C-F11R	2058	25C5469B	2058	25D69	2041	25D123	2020	25D147R	2020	25D180K	2041
25CD78	2020	25C-F11X	2058	25C5469C	2058	25D74	2009	25D123	2020	25D147S	2020	25D180L	2041
25CF1	2016	25C-F11Y	2058	25C5469D	2058	25D90	2020	25D123	2020	25D147T	2020	25D180M	2041
25CF1A	2058	25C-F14	2058	25C5469E	2058	25D90A	2020	25D123	2020	25D147U	2020	25D180N	2041
25CF1B	2030	25C-F14A	2058	25C5469F	2016	25D90B	2020	25D123	2020	25D147V	2020	25D180P	2041
25CF1C	2058	25C-F14B	2058	25C5469G	2058	25D90C	2020	25D123	2020	25D147W	2020	25D180Q	2041
25CF1D	2058	25C-F14C	2058	25C5469GN	2058	25D90D	2020	25D123	2020	25D147X	2020	25D180R	2041
25CF1E	2058	25C-F14D	2058	25C5469H	2058	25D90E	2020	25D123	2020	25D147Y	2020	25D180S	2041
25CF1F	2058	25C-F14E	2058	25C5469J	2058	25D90F	2020	25D123	2020	25D147Z	2020	25D180T	2041
25CF1G	2058	25C-F14F	2058	25C5469K	2058	25D90G	2020	25D123	2020	25D147A	2020	25D180U	2041
25CF1GN	2058	25C-F14G	2058	25C5469L	2058	25D90GN	2020	25D123	2020	25D147B	2020	25D180V	2041
25CF1H	2058	25C-F14GN	2058	25C5469M	2058	25D90H	2020	25D123	2020	25D147C	2020	25D180W	2041
25CF1J	2058	25C-F14H	2058	25C5469R	2058	25D90J	2020	25D123	2020	25D147D	2020	25D180X	2041
25CF1K	2058	25C-F14J	2058	25C5469X	2058	25D90K	2020	25D123	2020	25D147E	2020	25D180Y	2041
25CF1L	2058	25C-F14K	2058	25C5469Y	2058	25D90L	2020	25D123	2020	25D147F	2020	25D180Z	2041
25CF1M	2058	25C-F14L	2058	25D28	2020	25D90M	2020	25D123	2020	25D147G	2020	25D180A	2041
25CF1OR	2058	25C-F14M	2058	25D28A	2020	25D90OR	2020	25D123	2020	25D147H	2020	25D180B	2041
25CF1R	2058	25C-F14OR	2058	25D28B	2020	25D90X	2020	25D123	2020	25D147I	2020	25D180C	2041
25CF1X	2058	25C-F14R	2058	25D28C	2020	25D90Y	2020	25D123	2020	25D147J	2020	25D180D	2041
25CF1Y	2058	25C-F14X	2058	25D28D	2020	25D91	2020	25D123	2020	25D147K	2020	25D180E	2041
25CF2	1617	25C-F14Y	2058	25D28E	2020	25D91A	2020	25D123	2020	25D147L	2020	25D180F	2041
25CF2A	205												

ARCHER SEMICONDUCTOR REPLACEMENT GUIDE

DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SD1890R	2041	2SD220A	2030	2SD2250-R	2020	2SD313HP	2020	2SD3300	2020	2SD3495	2020
2SD1891	2041	2SD220B	2030	2SD2250-Y	2020	2SD313L	2020	2SD3301	2020	2SD3496	2020
2SD1892	2041	2SD220C	2030	2SD2250	2020	2SD313M	2020	2SD3302	2020	2SD3497	2020
2SD1893	2041	2SD220D	2030	2SD2250	2020	2SD313N	2020	2SD3303	2020	2SD3498	2020
2SD1894	2041	2SD220E	2030	2SD2250	2020	2SD313P	2020	2SD3304	2020	2SD3499	2020
2SD204	2030	2SD220F	2030	2SD235LB	2020	2SD313RA(D)	2020	2SD334R	2041	2SD399R	2020
2SD204(L)	2030	2SD220G	2030	2SD235M	2020	2SD313RA(E)	2020	2SD339	2041	2SD390	2020
2SD204A	2030	2SD220GN	2030	2SD235O	2020	2SD313RA(F)	2020	2SD339-1	2041	2SD390A	2020
2SD204B	2030	2SD220H	2030	2SD235ON	2020	2SD313Y	2020	2SD339-2	2041	2SD390P	2020
2SD204BL	2030	2SD220J	2030	2SD235R	2020	2SD314	2020	2SD340	2041	2SD390Q	2020
2SD204C	2030	2SD220K	2030	2SD235S	2020	2SD314A	2020	2SD340.1	2041	2SD397	2020
2SD204D	2030	2SD220L	2030	2SD235T	2020	2SD314B	2020	2SD340.2	2041	2SD398	2020
2SD204E	2030	2SD220M	2030	2SD235U	2020	2SD314C	2020	2SD341	2041	2SD399	2020
2SD204F	2030	2SD220N	2030	2SD235V	2020	2SD314D	2020	2SD341H	2041	2SD400	2020
2SD204G	2030	2SD220P	2030	2SD235W	2020	2SD314E	2020	2SD342	2041	2SD401	2020
2SD204GA	2030	2SD220Q	2030	2SD242	2020	2SD314GM	2020	2SD343	2041	2SD409	2020
2SD204GN	2030	2SD220R	2030	2SD242YLC	2020	2SD314H	2020	2SD343A	2020	2SD416	2020
2SD204H	2030	2SD221	2030	2SD243	2020	2SD314L	2020	2SD343B	2020	2SD418	2020
2SD204K	2030	2SD221F	2030	2SD244	2020	2SD314M	2020	2SD343C	2020	2SD419	2020
2SD204L	2030	2SD221F	2030	2SD256	2020	2SD314N	2020	2SD343D	2020	2SD425	2020
2SD204M	2030	2SD221F	2030	2SD257	2020	2SD314R	2020	2SD343H	2020	2SD438	2020
2SD204R	2030	2SD221G	2030	2SD258	2020	2SD214Y	2020	2SD343J	2020	2SD425-R	2041
2SD204T	2030	2SD221H	2030	2SD259	2020	2SD315	2020	2SD343K	2020	2SD434	2041
2SD205	2030	2SD221H	2030	2SD260	2020	2SD315C	2020	2SD344	2020	2SD426-O	2041
2SD205(L)	2030	2SD221J	2030	2SD260(O)	2020	2SD315D	2020	2SD345	2020	2SD426-E	2041
2SD205(M)	2030	2SD221K	2030	2SD261A	2020	2SD315E	2020	2SD346	2020	2SD427	2041
2SD205A	2030	2SD221L	2030	2SD268B	2020	2SD315F	2020	2SD347	2020	2SD427-O	2041
2SD205B	2030	2SD221M	2030	2SD268C	2020	2SD316-1	2020	2SD348	2020	2SD427-R	2041
2SD205C	2030	2SD221N	2030	2SD268K	2020	2SD316-2	2041	2SD349	2020	2SD460	2020
2SD205D	2030	2SD221P	2030	2SD268L	2020	2SD317	2020	2SD350A	2020	2SD467	2020
2SD205E	2030	2SD221Q	2030	2SD269	2020	2SD317A	2020	2SD350C	2020	2SD467-C	2020
2SD205F	2030	2SD221R	2030	2SD269A	2020	2SD317A(J)	2020	2SD350T	2020	2SD467B	2020
2SD205G	2030	2SD221S	2030	2SD269B	2020	2SD317A(K)	2020	2SD351	2020	2SD467C	2020
2SD205GN	2030	2SD221T	2030	2SD269C	2020	2SD317A(L)	2020	2SD351E	2020	2SD467D	2020
2SD205H	2030	2SD221U	2030	2SD269D	2020	2SD317A(M)	2020	2SD351F	2020	2SD467E	2020
2SD205J	2030	2SD234-O	2020	2SD292-O	2020	2SD317A(N)	2020	2SD351G	2020	2SD467F	2020
2SD205L	2030	2SD234-ORG	2020	2SD292A	2020	2SD317A(P)	2020	2SD351H	2020	2SD467G	2020
2SD205M	2030	2SD234-R	2020	2SD292B	2020	2SD317A(Q)	2020	2SD351I	2020	2SD467H	2020
2SD205O	2030	2SD234-RID	2020	2SD292BL	2020	2SD317A(R)	2020	2SD351J	2020	2SD467I	2020
2SD205R	2030	2SD234-Y	2020	2SD292C	2020	2SD317A(S)	2020	2SD351K	2020	2SD467J	2020
2SD205S	2030	2SD234-YLL	2020	2SD292D	2020	2SD317A(T)	2020	2SD351L	2020	2SD467K	2020
2SD205T	2030	2SD234A	2020	2SD292E	2020	2SD317A(U)	2020	2SD351M	2020	2SD467L	2020
2SD205V	2030	2SD234B	2020	2SD292F	2020	2SD317A(V)	2020	2SD351N	2020	2SD467M	2020
2SD207A	2041	2SD234C	2020	2SD292G	2020	2SD317A(W)	2020	2SD351O	2020	2SD467N	2020
2SD211	2041	2SD234D	2020	2SD292GA	2020	2SD317A(X)	2020	2SD351P	2020	2SD467O	2020
2SD211-OR	2041	2SD234E	2020	2SD292GM	2020	2SD322A	2041	2SD360D	2020	2SD476AK	2020
2SD211A	2041	2SD234F	2020	2SD292H	2020	2SD322B	2041	2SD360E	2020	2SD476KB	2020
2SD211B	2041	2SD234G	2020	2SD292J	2020	2SD322C	2041	2SD360F	2020	2SD476KC	2020
2SD211C	2041	2SD234GA	2020	2SD292K	2020	2SD323	2041	2SD361C	2020	2SD476YL	2020
2SD211D	2041	2SD234GN	2020	2SD292L	2020	2SD323A	2041	2SD361D	2020	2SD477	2020
2SD211E	2041	2SD234G-O	2020	2SD292M	2020	2SD323B	2041	2SD361E	2020	2SD477A	2020
2SD211F	2041	2SD234G-R	2020	2SD292N	2020	2SD323C	2041	2SD361F	2020	2SD477B	2020
2SD211G	2041	2SD234H	2020	2SD292R	2020	2SD323E	2041	2SD361G	2020	2SD477C	2020
2SD211GN	2041	2SD234G-Y	2020	2SD292S	2020	2SD323F	2041	2SD361H	2020	2SD477D	2020
2SD211H	2041	2SD234I	2020	2SD292T	2020	2SD323G	2041	2SD361I	2020	2SD477E	2020
2SD211J	2041	2SD234J	2020	2SD312	2020	2SD325A	2017	2SD362	2020	2SD525-Y	2020
2SD211K	2041	2SD234K	2020	2SD312A	2020	2SD325B	2017	2SD366A	2020	2SD525R	2020
2SD211L	2041	2SD234L	2020	2SD312B	2020	2SD325C	2017	2SD368	2020	2SD525Y	2020
2SD211M	2041	2SD234M	2020	2SD312C	2020	2SD325D	2017	2SD368	2020	2SD526	2020
2SD211O	2041	2SD234N	2020	2SD312D	2020	2SD325E	2017	2SD379	2020	2SD526(O)	2020
2SD211R	2041	2SD234O	2020	2SD312E	2020	2SD325F	2017	2SD380	2020	2SD526-O	2020
2SD211S	2041	2SD234P	2020	2SD312F	2020	2SD325G	2017	2SD380A	2020	2SD527	2020
2SD211T	2041	2SD234Q	2020	2SD312G	2020	2SD325H	2017	2SD381	2020	2SD527A	2020
2SD211U	2041	2SD234R	2020	2SD312H	2020	2SD325I	2017	2SD381A	2020	2SD527B	2020
2SD211V	2041	2SD234S	2020	2SD312I	2020	2SD325J	2017	2SD381B	2020	2SD527C	2020
2SD211W	2041	2SD234T	2020	2SD312J	2020	2SD325K	2017	2SD381C	2020	2SD527D	2020
2SD211X	2041	2SD234U	2020	2SD312K	2020	2SD325L	2017	2SD381D	2020	2SD527E	2020
2SD211Y	2041	2SD234V	2020	2SD312L	2020	2SD325M	2017	2SD381E	2020	2SD527F	2020
2SD211Z	2041	2SD234W	2020	2SD312M	2020	2SD325N	2017	2SD381F	2020	2SD527G	2020
2SD219	2030	2SD235-Y	2020	2SD312N	2020	2SD325OR	2017	2SD389(LP)	2020	2SD527H	2020
2SD219A	2030	2SD235-O	2020	2SD312X	2020	2SD325R	2017	2SD389(O)	2020	2SD528	2020
2SD219B	2030	2SD235-O	2020	2SD312Y	2020	2SD325S	2017	2SD389(P)	2020	2SD528A	2020
2SD219C	2030	2SD235-O	2020	2SD312Z	2020	2SD325T	2017	2SD389(Q)	2020	2SD528B	2020
2SD219D	2030	2SD235-ORG	2020	2SD313	2020	2SD325U	2017	2SD389-R	2020	2SD528C	2020
2SD219E	2030	2SD235-R	2020	2SD313A	2020	2SD325V	2017	2SD389-S	2020	2SD528D	2020
2SD219F	2030	2SD235-Y	2020	2SD313B	2020	2SD325W	2017	2SD389-T	2020	2SD528E	2020
2SD219G	2030	2SD235-Y	2020	2SD313C	2020	2SD325X	2017	2SD389-U	2020	2SD528F	2020
2SD219H	2030	2SD235-YA	2020	2SD313D	2020	2SD325Y	2017	2SD389-V	2020	2SD528G	2020
2SD219I	2030	2SD235A	2020	2SD313E	2020	2SD325Z	2017	2SD389-W	2020	2SD528H	2020
2SD219K	2030	2SD235B	2020	2SD313F	2020	2SD325AA	2017	2SD389-X	2020	2SD528I	2020
2SD219L	2030	2SD235C	2020	2SD313G	2020	2SD325AB	2017	2SD389-Y	2020	2SD528J	2020
2SD219M	2030	2SD235D	2020	2SD313H	2020	2SD325AC	2017	2SD389-Z	2020	2SD528K	2020
2SD219N	2030	2SD235E	2020	2SD313I	2020	2SD325AD	2017	2SD389-AA	2020	2SD528L	2020
2SD219P	2030	2SD235F	2020	2SD313J	2020	2SD325AE	2017	2SD389-AB	2020	2SD528M	2020
2SD219Q	2030	2SD235G	2020	2SD313K	2020	2SD325AF	2017	2SD389-AC	2020	2SD528N	2020
2SD219R	2030	2SD235H	2020	2SD313L	2020	2SD325AG	2017	2SD389-AD	2020	2SD528O	2020
2SD219S	2030	2SD235I	2020	2SD313M	2020	2SD325AH	2017	2SD389-AE	2020	2SD528P	2020
2SD219T	2030	2SD235J	2020	2SD313N	2020	2SD325AI	2017	2SD389-AF	2020	2SD528Q	2020
2SD219U	2030	2SD235K	2020	2SD313O	2020	2SD325AJ	2017	2SD389-AF	2020	2SD528R	2020
2SD219V	2030	2SD235L	2020	2SD313P	2020	2SD325AK	2017	2SD389-AF	2020	2SD528S	2020
2SD219W	2030	2SD235M	2020	2SD313Q	2020	2SD325AL	2017	2SD389-AF	2020	2SD528T	2020
2SD219X	2030	2SD235N	2020	2SD313R	2020	2SD325AM	2017	2SD389-AF	2020	2SD528U	2020
2SD219Y	2030	2SD235O	2020	2SD313S	2020	2SD325AN	2017	2SD389-AF	2020	2SD528V	2020
2SD219Z	2030	2SD235P	2020	2SD313T	2020	2SD325AO	2017	2SD389-AF	2020	2SD528W	2020

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SD691	2049	2SD866B	2020	2SF41F	2035	2SK23A	2035	2SK491	2035	2T172	2009	3CS2	1104
2SD704	2020	2SD866D	2020	2SF101	1067	2SK23A(12)	2035	2SK49M	2035	2T202	2009	3DD10	1114
2SD704D	2020	2SD866P	2020	2SF101B	1067	2SK24	2035	2SK54	2035	2T402	1617	3DH61	1114
2SD704E	2020	2SD866Q	2020	2SF102	1067	2SK24C	2035	2SK54B	2035	2T403	2009	3DL2	1104
2SD721	2068	2SD866R	2020	2SF102A	1067	2SK24D	2035	2SK54C	2035	2T404	2009	3DL4C	1104
2SD723	2020	2SD867	2041	2SF102B	1067	2SK24DR	2035	2SK55	2035	2T501	1104	3DS1	1104
2SD725	2055	2SD878	2041	2SF103	1067	2SK24E	2035	2SK55C	2035	2T502	1104	3DS2	1104
2SD725-06	2055	2SD880	2020	2SF104	1067	2SK24F	2035	2SK55CD	2035	2T503	1104	3DS3	1114
2SD726	2020	2SD880-OLBGL2	2020	2SF104A	1067	2SK24G	2035	2SK55D	2035	2T504	1104	3DZ61	1143
2SD734	2009	2SD880-Y	2020	2SF104B	1067	2SK25	2035	2SK55DE	2035	2T505	1104	3E05	1141
2SD734(F)	2009	2SD880GR	2020	2SF105	1020	2SK25C	2035	2SK55R	2035	2T506	1104	3E-1	1617
2SD734(G)	2009	2SD880Y	2020	2SF106	1020	2SK25D	2035	2SK61	2035	2T507	1114	3E-2	1617
2SD734-NP	2009	2SD880YLBGL2	2020	2SF106A	1020	2SK25E	2035	2SK61(Y)	2035	2T508	1114	3E2	1143
2SD734E	2009	2SD886	2020	2SF106B	1020	2SK25ET	2035	2SK61GR	2035	2T509	1114	3E-3	1617
2SD734F	2009	2SD886A	2020	2SF108	1020	2SK25F	2035	2SK61Y	2035	2T510	1114	3E-4	1123
2SD734G	2009	2SD886F	2020	2SF108A	1020	2SK25G	2035	2SK68	2035	2T918	2009	3E-64	1104
2SD743	2020	2SD886P	2020	2SF108B	1020	2SK31(C)	2035	2SK68-L	2035	2T919	2016	3E-65	1104
2SD743A	2020	2SD886Q	2020	2SF229	1067	2SK31C	2035	2SK68-M	2035	2T2708	2009	3ES1	1104
2SD743R	2020	2SD889	2016	2SF248T	2020	2SK32	2035	2SK68A	2035	2T2785	2009	3ES2	1104
2SD762	2020	2SD889Q	2016	2SF357	1067	2SK32B	2035	2SK68A(L)	2035	2T2857	2009	3F30(SCR)	1067
2SD762-O	2020	2SD889R	2016	2SF521	1067	2SK33	2035	2SK68A(M)	2035	2U4	1104	3F60(SCR)	1067
2SD762-P	2020	2SD889T	2016	2SF522	1067	2SK33D	2035	2SK68AL	2035	2U8	1104	3F100(SCR)	1067
2SD762OP	2020	2SD918	2020	2SF523	1067	2SK33E	2035	2SK68A-M	2035	2U12	1104	3F150	1067
2SD762P	2020	2SD919	2009	2SF524	1020	2SK33F	2035	2SK68AM	2035	2W005	1173	3F150(SCR)	1067
2SD762Q	2020	2SD959LB	2020	2SF525	1020	2SK33H	2035	2SK68L	2035	2W01	1173	3F200	1067
2SD778	2009	2SD959Q	2020	2SF656	1067	2SK35	2035	2SK68M	2035	2W02	1173	3F200(SCR)	1067
2SD778Q	2009	2SD960	2020	2SF656Z5	1067	2SK35-0	2035	2SK68Q	2035	2W04	1173	3F805OR	1067
2SD778R	2009	2SD969	2030	2SF657	1067	2SK35-1	2035	2SK83	2035	2W3A	1104	3F51	1104
2SD783	2055	2SD1010	2016	2SF658	1067	2SK35-2	2035	2SK104	2035	2W4A	1104	3F52	1104
2SD792	2055	2SD1010S	2016	2SF664	1067	2SK35A	2035	2SK104E	2035	2W5A	1104	3G2	2062
2SD792S	2055	2SD1012	2009	2SF664S	1067	2SK35BL	2035	2SK104F	2035	2W6A	1114	3G8	1104
2SD792T	2055	2SD1012F	2009	2SF674S	1067	2SK35C	2035	2SK104H	2035	2W7A	1114	3G152	1104
2SD804	2020	2SD1012G1	2009	2SF676S	1067	2SK35GM	2035	2SK106	2035	2W9A	1114	3G154	1104
2SD804H	2020	2SD1022	2068	2SF941	1067	2SK35R	2035	2SK107	2035	2X9A116	1104	3G156	1104
2SD804HLB	2020	2SD1024	2068	2SF942	1067	2SK35Y	2035	2SK107-1	2035	2XAA111	1123	3G158	1114
2SD804HP	2020	2SD1044A	2068	2SF1110	1067	2SK37	2035	2SK107-2	2035	2XAA112	1123	3G252	1104
2SD807	2055	2SD1060K	2041	2SF1111	1067	2SK37(K)	2035	2SK107-4	2035	2XAA113	1123	3G254	1104
2SD807M	2055	2SD1061	2020	2SF1112	1067	2SK37H	2035	2SK119	2035	2XAA119	1123	3G256	1104
2SD820	2055	2SD1098-42M	2017	2SF1113	1020	2SK40	2035	2SK120	2062	3-1477	1144	3G258	1114
2SD820FA-1	2055	2SD1131B	2020	2SF1114	1020	2SK40(C)	2035	2SK152	2035	3A1	1114	3G1510	1114
2SD821	2035	2SD1131C	2020	2SFD111	1123	2SK40-3	2035	2SK152-1	2035	3A15	1141	3G2510	1114
2SD822	2055	2SD1131D	2020	2SG536GN	1617	2SK40A	2035	2SK152-2	2035	3A30	1141	3GA	1104
2SD822P	2055	2SD1132B	2020	2SJ2A	1104	2SK40B	2035	2SK152-3	2035	3A50	1114	3GH61	1114
2SD822Q	2055	2SD1132C	2020	2SJ4A	1104	2SK40C	2035	2SK152LA	2035	3A50F5	1114	3GS1	1104
2SD836	2068	2SD1132D	2020	2SJ8A	1114	2SK40D	2035	2SK168D	2035	3A100	1114	3GS2	1104
2SD836A	2068	2SD1133B	2020	2SJ11	2035	2SK41	2035	2SK168F	2035	3A100F5	1114	3GZ61	1144
2SD836Q	2068	2SD1133C	2020	2SJ12	2035	2SK41C	2035	2SK170	2035	3A152	1104	3HS1	1104
2SD836R	2068	2SD1133D	2020	2SJ60A	1104	2SK41D	2035	2SK170V	2035	3A154	1104	3HS2	1104
2SD837	2068	2SD1134	2020	2SK25ET	2035	2SK41E	2035	2SK192	2035	3A156	1104	3J15	1067
2SD837A	2068	2SD1134-C	2020	2SK11	2035	2SK41E1	2035	2SK194	2035	3A158	1114	3J30	1067
2SD837AB	2068	2SD1134C	2020	2SK12	2035	2SK41F	2035	2SK195H	2062	3A-200	1114	3J60	1067
2SD837AD	2068	2SD1135	2020	2SK13	2035	2SK42	2035	2SK196R	2035	3A200	1104	3J100	1067
2SD837AQ	2068	2SD1186	2055	2SK15	2035	2SK42-CM1	2035	2SK197	2035	3A200F5	1114	3JH-61	1104
2SD837AR	2068	2SD1206(Q)	2016	2SK16HA	2035	2SK42-CM1	2035	2SK197YC	2035	3A252	1104	3JH61	1104
2SD837B	2068	2SD1206(R)	2016	2SK17	2035	2SK43	2035	2SK197YD	2035	3A254	1104	3K15	1067
2SD837LB	2068	2SD1206Q	2016	2SK17(O)	2035	2SK43(03)	2035	2SK197YE	2035	3A256	1104	3K5797	2023
2SD837O	2068	2SD1206R	2016	2SK17-0	2035	2SK43(2)	2035	2SK212	2062	3A258	1114	3L4-2001	1123
2SD837P	2068	2SD1228M	2009	2SK17-OR	2035	2SK43(3A)	2035	2SK212A	2062	3A300	1144	3L4-2001-1	1123
2SD837Q	2068	2SD1266	2020	2SK17A	2035	2SK43-3	2035	2SK212AE	2062	3A400	1114	3L4-2001-1A	1123
2SD837R	2068	2SD1266(P)	2020	2SK17B	2035	2SK43-4	2035	2SK212E	2062	3A400F5	1114	3L4-2001-3	1122
2SD843	2020	2SD1266(Q)	2020	2SK17BL	2035	2SK43-OR	2035	2SK304	2035	3A500F5	1114	3L4-2001-4	1122
2SD843(Y)	2020	2SD1266(R)	2020	2SK17GR	2035	2SK43A	2035	2SK1033B	2035	3A600	1114	3L4-2003-1	1123
2SD849	2055	2SD1266P	2020	2SK17O	2035	2SK43B	2035	2SK1521A	2035	3A600F5	1114	3L4-2003-3	1123
2SD856	2020	2SD1266Q	2020	2SK17R	2035	2SK43C	2035	2SM610B	2023	3A700	1114	3L4-2003-4	1123
2SD856(P)	2020	2SD1276	2068	2SK17Y	2035	2SK43D	2035	2SN733	2009	3A700F5	1114	3L4-2003-7	1123
2SD856(Q)	2020	2SD1276-AP	2068	2SK19	2035	2SK43E	2035	2SN3841	2023	3A800	1114	3L4-3001-1	1122
2SD856(R)	2020	2SD1276-LB	2068	2SK19(BL)	2035	2SK43F	2035	2SO12	2020	3A800F5	1114	3L4-3001-5	1104
2SD856A	2020	2SD1276A	2068	2SK19(GN)	2035	2SK43H	2035	2SO14	2016	3A900	1114	3L4-3001-7	1122
2SD856B	2020	2SD1276A(LB)P	2068	2SK19(GR)	2035	2SK43J	2035	2SO33	2041	3A900F5	1114	3L4-3001-8	1104
2SD856L	2020	2SD1276A(LP)	2068	2SK19-14	2035	2SK43K	2035	2SO34	2041	3A1000	1114	3L4-3002-7	1122
2SD856LB	2020	2SD1276AP	2068	2SK19-BL	2035	2SK43L	2035	2SO35	2041	3A1000F5	1114	3L4-3002-10	1122
2SD856M	2020	2SD1276B	2068	2SK19-GP	2035	2SK43M	2035	2SO36	2041	3A1510	1114	3L4-3002-13	1103
2SD856M(LB)	2020	2SD1276LB	2068	2SK19-Y	2035	2SK43OR	2035	2SO95A	2009	3A2510	1114	3L4-3002-20	1122
2SD856MLB	2020	2SD1276P	2068	2SK19A	2035	2SK43R	2035	2SP405	2030	3AF2	1114	3L4-3002-25	1122
2SD856O	2020	2SD1277B	2068	2SK19B	2035	2SK43S	2035	2SQ371	2016	3AF4	1144	3L4-3002-30	1104
2SD856P	2020	2SD1318	2030	2SK19BB	2035	2SK43X	2035	2SR05K	1104	3AS1	1104	3L4-3002-31	1122
2SD856PQR	2020	2SD1363-Y	2020	2SK19BL	2035	2SK43Y	2035	2SR1K	1104	3AS2	1104	3L4-3002-32	1122
2SD856Q	2020	2SD1406	2020	2SK19FET	2035	2SK44	2035	2SR24	2035	3BB-20B01	1171	3L4-3002-33	1122
2SD856Q(LB)	2020	2SD1406-Y	2020	2SK19GB	2035	2SK44C	2035	2SR54	2030	3BB-20B01	1104	3L4-3506-29	564
2SD856R	2020	2SD1406GR	2020	2SK19GE	2035	2SK44D	2035	2SK68AM	2035	3BH61	1114	3L4-3506-31	565
2SD856S	2020	2SD1406Y	2020	2SK19GR	2035	2SK47	2062	2SR173	2030	3BS1	1104	3L4-5007-3	2016
2SD857	2020	2SD1894	2055	2SK19H	2035	2SK49	2035	2T15X33	2016	3BS2	1104	3L4-6001-01	2041
2SD857A	2020	2SD2340	2020	2SK19K	2035	2SK49E2	2035	2T40	2039	3BZ-61	1114	3L4-6007-2	1617
2SD857B	2020	2SD2350	2020	2SK19V	2035	2SK49F	2035	2T41	2009	3BZ61	1114	3L4-6007-3	2016
2SD864K	2068	2SDU84GN	2030	2SK19Y	2035	2SK49H	2035	2T42	2009	3C6030	1067	3L4-6007-10	2016
2SD866	2020	2SE629	2016	2SK2									

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3A4-6007-13	2016	3RC30	1020	4-2020-01800	1122	4-3025541	2014	4JX16A667	1123	5-30099-2	1104	5-1021	543
3A4-6007-14	2016	3RC30A	1020	4-2020-01100	1122	4-3023213	1617	4JA4DX520	1104	5-30099-3	1104	5-1021	543
3A4-6007-15	2016	3RL30A	1020	4-2020-04200	1122	4-3022221	1617	4JA10EX3	1104	5-30106-1	1104	5-1N1	543
3A4-6007-20	2016	3S004	1617	4-2020-04400	1122	4-3022223	2020	4JA10EX3	1104	5-30109-1	1104	5-1N2	543
3A4-6007-21	2016	3S05T	1141	4-2020-04300	1104	4-3025543	2041	4JA4DX700	1104	5-30113-1	1104	5-1N3	543
3A4-6007-22	2016	3S1E	1143	4-2020-07300	1104	4-3023844	2030	4JA4DX520	1104	5-30120-1	1104	5-1X	565
3A4-6007-23	2016	3S2E	1143	4-2020-07500	561	4-3025763	2016	4JA6MR700	1104	5-70004503	1617	6-02	2009
3A4-6007-34	2023	3S3E	1144	4-2020-07600	1104	4-3025764	2016	4JA10DX3	1104	5-70005452	1617	6-04	1617
3A4-6007-35	2016	3S4E	1144	4-2020-07601	1104	4-3025765	2016	4JA10DX32	1104	5-70005503	1617	6-04GRN	1617
3A4-6007-41	2058	3S4M	1020	4-2020-07700	1104	4-3025766	1617	4JA10EX3	1104	5-7000901504	1617	6-04ORN	1617
3A4-6007-51	2016	3S4M/LK	1020	4-2020-09001	1122	4-30257-7	2014	4JA16MR700M	1114	5A1	1104	6-04S1	1617
3A4-6010-1	2020	3S4M/LK1E	1020	4-3020-01300	1122	4-3040012	1104	4JA211A	1104	5A3	1104	6-04S2	1617
3A4-6010-3	2009	3S4M/LK1E	1020	4-2020-04300	1104	4-302002571	1123	4JX16596	1617	5A3	1104	6-05	1617
3A4-6010-6	2030	3S50E	2035	4-2020-04600	1123	4-202104170	1104	4JX7A72	1617	5A4	1104	6-05P	1617
3A4-6011-1	2020	3S10E	1114	4-2020-08900	1104	4-202104970	1122	4JX11C3848	2020	5A4D	1104	6-05YEL	1617
3A4-6011-9	2027	3S8629	1104	4-2020-10100	1122	4-2020035000	1123	4JX16A567	1617	5A4D-C	1104	6-04S1	1617
3A4-6011-11	2027	3S823	2035	4-2020-10500	1104	4-AA210	1123	4JX16A667	1617	5A5	1104	6-04S2	1617
3A4-6011-12	2027	3S830	2035	4-2020-12400	563	4A4DX52D	1104	4JX16A667/G	2009	5A5D	1104	6-11	1617
3A4-6011-14	2027	3S830A	2035	4-2020-14500	1104	4A4DX520	1104	4JX16A667/O	2009	5A6	1104	6-19	1617
3A4-6012-2	2020	3S830B	2035	4-2020-15600	1122	4C28	2030	4JX16A667/R	2009	5A6D	1104	6-30	1617
3A4-6012-3	2020	3S830C	2035	4-2021-04170	1171	4C29	2030	4JX16A667/Y	2009	5A6D-C	1104	6-31	2023
3A4-6012-5	2020	3S834C	2035	4-2021-04470	1114	4C30	2030	4JX16A667/G	1617	5A8	1104	6-31A	2023
3A4-6012-6	2020	3S84M	1020	4-2021-04770	1114	4C31	2030	4JX16A667/O	1617	5A8D	1114	6-38	2023
3A4-6012-8	2020	3S5AM	1020	4-2021-04970	1104	4C43	2049	4JX16A667/E	1617	5A8DC	1114	6-38A	2023
3A4-6012-20	2017	3T501	1104	4-2021-05000	1122	4D4	1104	4JX16A667/Y	1617	5A1G	1114	6-4P	2023
3A4-6012-56	2020	3T502	1104	4-2021-05870	1123	4D6	1104	4JX16A668	1617	5A10C	1114	6-90	2016
3A4-6012-58	2020	3T503	1104	4-2021-07470	1122	4D8	1104	4JX16A668/G	2009	5A10D	1114	6-93	2009
3A4-6013-6	2027	3T504	1104	4-2021-07670	1122	4D20	1617	4JX16A668/O	2009	5A10D-C	1114	6-2708	2016
3A4-6013-15	2027	3T505	1104	4-2021-08270	1104	4D21	1617	4JX16A668/Y	2009	5A15	1067	6-59010	1104
3A4-9020-1	703	3T506	1104	4-2021-09370	1114	4D22	1617	4JX16A668/G	1617	5A-D	1104	6-6490804	2041
3L1030	1067	3T507	1114	4-2021-10270	1104	4D24	1617	4JX16A668/O	2009	5ADR	1114	6A10317	1617
3L2015	1067	3T508	1114	4-2021-19470	1104	4D25	1617	4JX16A668/Y	1617	5ADRDC	1114	6A10320	2020
3L44007-1	2069	3T509	1114	4-2029-70860	1122	4D26	1617	4JX16A669	1617	5AD10	1114	6A10423	1617
3L44007-2	2069	3T510	1114	4-2029-71590	1122	4D8	1114	4JX16A669/G	1617	5AD10C	1114	6A10425	1617
3L461	1114	3TCRF	1020	4-2039-73000	2016	4GA	1104	4JX16A669/Y	1617	5AD10D	1114	6A10426	1617
3M55	1104	3TCRG	1020	4-2039-70431	2009	4H 130 30302	1122	4JX16A670	1617	5B-1	1104	6A10851	1617
3M510	1104	3TE120	2041	4-2040-08000	1122	4H 130 30312	1123	4JX16A670G	1617	5B-2	1104	6A10855	1617
3M520	1104	3TE140	2041	4-3033	1104	4H 130 30702	1122	4JX16A6670	2009	5B2	1114	6A11180	1617
3M530	1104	3TE220	2055	4-3034	1122	4H 130 30862	562	4JX16A6680	1617	5B-2-H5W	1104	6A11223	2016
3M540	1104	3TE230	2041	4-5145	1617	4H 130 30869	1123	4JX168670/B	2009	5B3	1104	6A12677	2016
3M580	1104	3TE940	2041	4-68682-2	1617	4H 130 31012	1123	4JX168670/R	2009	5B-15H	1104	6A12679	2016
3N35	1617	3TM62	1114	4-68689-3	1114	4H 130 31438	1103	4JX168670/Y	2009	5D1	1104	6A12681	1617
3N71	2016	3TX001	2055	4-68695-2	2016	4H 130 40916	2009	4JX168670/B	1617	5D2	1104	6A12682	2009
3N72	2016	3TX083	2041	4-68697-3	1114	4H 130 40927	2009	4JX168670/G	1617	5D8	1114	6A12683	1617
3N73	2016	3TX004	2041	4-684120-3	2016	4H 130 40937(1609C)	2009	4JX168670/R	1617	5D18	1114	6A12725	1617
3N74	2016	3X11/1	1104	4-685285-3	2016		2009	4JX168670/Y	1617	5E1	1104	6A12788	1617
3N75	2016	3.3B1	1101	4-686105-3	1114	4H 130 40937(BC548B)	2009	4JX16E3860	1617	5E2	1104	6A12789	1617
3N76	2016	4-12-1A7-1	1617	4-686106-3	1114		2009	4JX16E3890	1617	5E3	1104	6A16399	2009
3N77	2016	4-46	2016	4-686107-3	2016	4H 130 41356	2016	4JX16E3960	1617	5E4	1104	6B1	561
3N78	2016	4-47	2009	4-686108-3	2016	4H 130 41395	2023	4JX24X539	563	5E5	1104	6B2	561
3N79	2016	4-47(SEARS)	1617	4-686112-3	2016	4H 130 41441	2016	4JX29A826	2023	5E6	1104	6C2	561
3N87	2016	4-50	1104	4-686114-3	2016	4H 130 41421	2009	4JX29A829	2023	5E8	1114	6C4	1104
3N88	2016	4-202A76	1103	4-686118-3	2016	4H 130 41706	2009	4JX44X539	563	5G8	1104	6CA175B	1104
3N90	2023	4-202R101	1104	4-686119-3	2016	4H 130 41754(BC548C)	2009	4JX44X112	563	5GA	1104	6CA175B	1104
3N91	2023	4-202S100-69372	2016	4-686120-3	2016		2009	4K30	1067	5G-D	1104	6CD1	1104
3N92	2023	4-282	1123	4-686126-3	2016	4H1034-4196	2009	4K60	1067	5GD	1104	6GX1	1101
3N93	2023	4-324	2035	4-686127-3	2016	4H1303-0219	1123	4K100	1067	5GF	1114	6M4	1104
3N94	2023	4-397	2030	4-686131-3	2016	4H1303-0613	1122	4L30	1067	5GFH	1104	6M404-1	1104
3N95	2023	4-398	2030	4-686132-3	1617	4H1303-1201	1104	4L100	1067	5GJ	1114	6M404-2	1104
3N114	2023	4-399	2016	4-686139-3	1114	4H1303-1356	1104	4SD46-2	1123	5GJ/FR1N	1104	6M404-3	1104
3N115	2023	4-400	2016	4-686145-3	2016	4H1303-1395	1104	4T6-2A	561	5H	1104	6M404-4	1104
3N116	2023	4-403	2016	4-686143-3	1617	4H1304-0928	2009	4T6-2A	561	5H4D1	1104	6M404-5	1104
3N117	2023	4-434	2016	4-686144-3	1617	4H1304-0943	2023	4T601	1104	5H50M	1104	6M404-6	1104
3N118	2023	4-443	2016	4-686149-3	1104	4H1304-1075	2020	4T502	1104	5J-F1	1104	6M404-7	1104
3N119	2023	4-450	2016	4-686169-3	2016	4H1304-4104	2023	4T503	1104	5K10	1114	6MS16X12	1101
3N120	2016	4-851	1617	4-686171-3	2016	4H1304-4121	2009	4T504	1104	5K4164ANP-15	2506	6RW62HY	1104
3N121	2016	4-852	1123	4-686172-3	2016	4H1304-4154	2058	4T505	1104	5MA2	1104	6X97047A01	1617
3N123	2023	4-853	1123	4-686173-3	1617	4H1304-4196	2009	4T506	1104	5MA4	1104	6X97174A01	1122
3N127	2016	4-854	1123	4-686179-3	1114	4H1304-4358	2023	4T507	1114	5MA4D	1104	6X97174XA08	1122
3N129	2023	4-855	1123	4-686182-3	2030	4H13030621	1193	4T508	1114	5MA5	1104	6.2B	561
3N130	2023	4-857	1123	4-686183-3	1617	4H13030647	1122	4T509	1114	5MA6	1104	6.2B1	561
3N131	2023	4-882	1123	4-686184-3	1114	4H13030642	562	4T510	1114	5MA8	1114	6.2B1(WATT	

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
7-0015	1617	7D	1104	8-719-300-76(,RH-1A)	1104	8-729-301-72	1104	8-905-012-740	1104	8-905-706-242	1617	8C742M	2023
7-1(SARKES)	1617	7D210	1114		1104	(,2SA1446-Y)	2020	8-905-014-317	1617	8-905-706-244	1617	8C743C	2023
7-2(SARKES)	1617	7D210A	1114	8-719-309-91	1102	8-729-204-32	2022	8-905-199-801	1104	8-905-706-245	1617	8C7420	2023
7-3(SARKES)	1617	7L6-0495-14	1104	8-719-301-18	1114	8-729-244-83	2023	8-905-196-004	1104	8-905-706-246	1617	8C615	1104
7-4	2016	7MA60	1104	8-719-302-06	1104	8-729-204-83	2023	8-905-196-004	1104	8-905-706-247	2023	8CG15RE	1104
7-4(SARKES)	1617	8-0001300	1114	8-719-331-10	1104	(,2SA1040GR)	2023	8-905-198-007	1104	8-905-706-250	1617	8D4	1104
7-6	2016	8-0001400	1114	8-719-422-21	1123	8-729-245-83	2009	8-905-198-008	1104	8-905-706-251	2023	8D6	1104
7-6(SARKES)	2009	8-0024-1	2016	8-719-500-34	1114 N2	8-729-245-83(,2SC2458)	2009	8-905-198-010	1104	8-905-706-253	2023	8D8	1114
7-7	2016	8-0024-2	2016	8-719-501-34	1114 N1		2009	8-905-196-034	1104	8-905-706-254	2023	8D10	1114
7-7(SARKES)	1617	8-0024-3	1617	8-719-503-40	1114	8-729-245-84	2009	8-905-305-004	1123	8-905-706-255	2023	8G7	1114
7-8	2016	8-00243	1617	8-719-511-10	1171	8-729-266-93	2009	8-905-305-007	1123	8-905-706-256	2023	8GA	1114
7-8(SARKES)	1617	8-005202	1617	8-719-800-24	1114 N3	8-729-266-93	2009	8-905-305-020	1122	8-905-706-257	1617	8F70BLU	2020
7-8(STANDEL)	1173	8-0050100	1617	8-719-815-55	1122	(,2SC1648-Y)	2009	8-905-305-022	1123	8-905-706-260	1617	8F75BLU	2020
7-9	2016	8-0051500	1617	8-719-815-80	1123	8-729-271-02	2009	8-905-305-055	1123	8-905-706-263	1617	8F111	2035
7-9(SARKES)	2016	8-0052102	1617	8-719-815-85	1122	8-729-288-02	2020	8-905-305-310	1123	8-905-706-260	2023	8F245	2020
7-10	2016	8-0052302	2009	8-719-900-02	1104	8-729-288-02	1104	8-905-305-327	1123	8-905-706-286	2023	8Q-3-01	2016
7-10(SARKES)	2016	8-0052402	2041	8-719-900-63	1102	(,2SD880-Y)	2020	8-905-305-330	1123	8-905-706-287	2023	8Q-3-10	2016
7-11(SARKES)	2016	8-0052600	1617	8-719-900-93	1104	8-729-304-80	2035	8-905-305-336	1123	8-905-706-288	2023	8Q-3-11	2023
7-12	2041	8-0053001	1617	8-719-900-95	1104	8-729-305-42	2035	8-905-805-338	1123	8-905-706-289	2023	8Q-3-12	2009
7-12(STANDEL)	2041	8-0053300	2030	8-719-900-95(,V19E)	1104	8-729-307-62	2020	8-905-305-339	1123	8-905-706-290	2023	8Q-3-13	2030
7-13	2041	8-0053400	1617		1184	8-729-313-82	2026	8-905-305-342	1122	8-905-706-336	1617	8Q-3-14	2023
7-13(STANDEL)	2041	8-0053600	2016	8-719-901-02	1102	8-729-313-82	2026	8-905-305-348	1123	8-905-706-335	2041	8Q-7-01	1104
7-15(SARKES)	1617	8-0318250	1617	8-719-901-03	1104	(,2SD1134-C)	1020	8-905-305-400	1104	8-905-706-556	2041	8Q-7-02	1104
7-15(STANDEL)	1114	8-0337390	1617	8-719-901-09	1104	8-729-316-12	2020	8-905-305-425	1123	8-905-706-557	2041	8Q-7-03	1104
7-16	2016	8-0338030	2016	8-719-901-13	1104	8-729-316-16	1020	8-905-305-555	1122	8-905-706-606	1617	85191A04	1104
7-16(SARKES)	1617	8-0338040	2016	8-719-901-19	1104	8-729-316-16(,2SC1061)	2020	8-905-305-561	1123	8-905-706-730	2016	8T04A	1000
7-17	1617	8-0339430	2016	8-719-901-24	1020		2020	8-905-305-580	1123	8-905-706-901	2035	8T04HA	1000
7-17(SARKES)	1617	8-0339440	2016	8-719-901-83	1122	8-729-331-53	2020	8-905-305-635	1123	8-905-707-254	1617	8T14A	1000
7-18(SARKES)	1617	8-0338340	2016	8-719-901-92	1104	8-729-341-34	2055	8-905-313-007	1123	8-905-707-265	1617	8T14HA	1000
7-19(SARKES)	1617	8-0383930	2016	8-719-901-93	1104	8-729-341-93	2020	8-905-313-008	1123	8-905-707-313	1617	8T24A	1000
7-20	2016	8-0383940	1617	8-719-901-93(,V19C)	1104	8-729-348-47	1020	8-905-313-010	1122	8-905-713-058	2023	8T24MA	1000
7-20(SARKES)	1617	8-0389910	1617		1194	8-729-375-52	2009	8-905-313-011	1122	8-905-713-101	2041	8T34A	1000
7-21(SARKES)	2016	8-0389930	1617	8-719-901-94	1104	8-729-375-01	2009	8-905-313-018	1122	8-905-713-556	2041	8T34HA	1000
7-22	2016	8-0414120	2041	8-719-901-95	1104	8-729-385-37	1009	8-905-313-100	1123	8-2409501	1617	8T44A	1000
7-22(SARKES)	2016	8-0414130	2041	8-719-903-09	1104	8-729-400-27	1009	8-905-313-101	1123	8-81250108	2016	8T44HA	1000
7-23	2016	8-0421980	1617	8-719-903-29	1104	(,2SC634-SP)	2009	8-905-313-120	1123	8-81250109	1617	8U4	1103
7-23(SARKES)	2016	8-4(BENDIX)	1617	8-719-907-40	1104	8-729-609-06	2009	8-905-405-002	1104	8A01	1123	8U8	1104
7-24(SARKES)	2016	8-22	1104	8-719-908-03	1114	8-729-612-77	2023	8-905-405-026	1104	8A11667	1104	8U12	1114
7-25(SARKES)	2016	8-25	1104	8-719-911-19	1122	8-729-669-37	2035	8-905-405-069	1104	8A12789	1617	8.75VZENER	562
7-26	2016	8-38	1104	8-719-911-54	1144	8-729-663-47	2009	8-905-405-077	1123	8C91	562	9-5125	2016
7-28	2016	8-619-030-011	1123	8-719-911-55	1144	8-729-663-47	2009	8-905-405-090	1122	8C200	2023	9-5126	2016
7-30	2016	8-619-030-012	1104	8-719-912-54	1114	8-729-671-12	2009	8-905-405-105	1114	8C201	2023	9-5127	2016
7-43	2016	8-639-801-095	1104	8-719-920-04	1104	8-729-671-14	2009	8-905-405-134	1104	8C202	2023	9-5128	2016
7-44	2016	8-697-020-570	1617	8-719-923-76	1122	8-729-671-14	2009	8-905-405-146	1104	8C203	2023	9-5129	2016
7-45	2016	8-697-020-571	1123	8-719-924-06	1104	(,2SC716-1A)	2009	8-905-405-160	1114	8C204	2023	9-5130	2016
7-59-001/3477	1123	8-710-222-21	1104	8-719-924-73	1122	8-729-671-15	2009	8-905-405-170	1114	8C205	2023	9-5131	2016
7-59-005/3477	1171	8-712-600-00	1123	8-719-930-12	563	8-729-801-22	2009	8-905-405-206	1104	8C206	2023	9-5216	1617
7-59-0013477	1123	8-719-060-24	1067	8-719-931-05	565	8-729-803-04	2016	8-905-405-838	1123	8C207	2023	9-5220	2030
7-59-0053477	1171	8-719-026-11	1123	8-719-931-06	561	8-729-806-84	2016	8-905-406-020	1122	8C430	2023	9-5221	2009
7-59-019/3477	2009	8-719-100-30	565	8-719-941-13	1114	8-729-831-33	2020	8-905-413-092	1104	8C430K	2023	9-5223	2016
7-59-020/3477	2009	8-719-109-37	561	8-719-981-01	1145	8-729-889-42	2023	8-905-421-118	562	8C440	2023	9-5225	1617
7-59-021/3477	2009	8-719-100-38	561	8-722-381-20	2035	8-729-889-42	2009	8-905-421-128	564	8C440K	2023	9-5226-004	2030
7-59-022/3477	2009	8-719-100-55	562	8-722-393	2025	8-729-889-42	2009	8-905-421-139	565	8C443	2023	9-5226-2	1617
7-59-023/3477	2009	8-719-100-64	563	8-719-100-64	563	(,2SC1130-D)	2009	8-905-421-228	562	8C443K	2023	9-5226-4	2030
7-59-024/3477	2009	8-719-100-65	563	8-723-303	2035	8-729-889-42	2009	8-905-421-234	561	8C445	2023	9-5227	1617
7-59-068	1617	8-719-100-72	564	8-723-303-03	2035	8-729-902-11	2016	8-905-421-239	564	8C445K	2023	9-5229	1617
7-59-0193477	2016	8-719-100-72	564	8-723-303-20	2035	8-729-965-22	2009	8-905-421-300	1122	8C449	2023	9-9109-1	1617
7-59-0203477	2016	(,RD15E-B3)	564	8-723-304-00	2035	8-729-965-22	2009	8-905-421-319	563	8C449K	2023	9-9109-2	1617
7-59-0213477	2016	8-719-102-64	565	8-724-034-00	2009	(,2SC1652-Q)	2009	8-905-421-715	564	8C450	2023	9-91511500	1114
7-59-0223477	2016	8-719-102-67	565	8-724-375-01	2009	8-729-978-62	2023	8-905-605-644	2016	8C460	2023	9ACW	2035
7-59-0233477	2016	8-719-102-68	565	8-725-800-90	2035	8-729-993-72	2023	8-905-705-112	1617	8C460K	2023	9D11	1122
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7-5853	1000	8-719-102-73	561	8-726-357-10	2009	8-729-112-30	703	8-905-705-405	1417	8C463K	2023	9D13	1104
7-5853A	1000	8-719-102-74	561	8-726-368-10	2009	8-729-112-40	1711	8-905-705-410	2009	8C465	2023	9D15	562
7-5853B	1000	8-719-102-88	562	8-726-388-80	2009	8-759-140-01	2401	8-905-706-344	2016	8C465K	2023	9D16	1123
7-6006-00	1143	8-719-103-09	564										

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
9NE1	1104	10B551-2	2016	10DC5	1104	11-085018	1123	12-1A7	1617	13-0321-7	1617	13-14085-2	2016
9S037	1617	10B551-3	2016	10DC8	1114	11-085022	1123	12-1A7-1	1617	13-0321-8	1617	13-14085-3	2016
9TR1	2016	10B556	2016	10DC08	1114	11-085024	1104	12-1A8	1617	13-0321-9	1617	13-14085-4	2016
9TR2	2009	10B556-2	2016	10DCIN	1104	11-102-001	1171	12-1A9	1617	13-0321-10	1617	13-14085-6	1617
9TR3	2009	10B556-3	2016	10DCII	1104	11-1592	1104	12-1A9G	1617	13-0321-11	1617	13-14085-7	1617
9TR7	2009	10B1051	2016	10DCO3	1104	11-102001	1104	12-1A19	1617	13-0321-12	1617	13-14085-13	2023
9TR8	2020	10B1055	2016	10DCO4	1104	11-102002	1171	12-1A21	1617	13-0321-14	2016	13-14085-15	1617
9TR10	1617	10B-Y	1104	10DCO5	1104	11-108000	1171	12-1A82	1617	13-0321-15	2016	13-14085-15A	2030
9TR11001-01	2016	10C	1104	10DF1	1102	11-120007	1104	12-4	1617	13-0321-16	2016	13-14085-16	2016
9TR21001-02	1617	10C05	1104	10DF2	1103	11B551	2016	12-10	1617	13-0321-17	2016	13-14085-17	2016
9TR31001-03	1617	10C1	1104	10DF4	1104	11B551-2	2016	12-11	1617	13-0321-21	2016	13-14085-24	2016
9TR61001-07	2030	10C2	1104	10DF5	1114	11B551-3	2016	12-12	1617	13-0321-81	1617	13-14085-26	2058
9TR91001-09	2041	10C3	1104	10CF#	1114	11B552	2016	12-13	1617	13-085002	1122	13-14085-27	2016
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9.1B	562	10C4D	1104	10D-V	1104	11B552-3	2016	12-15	1617	13-085015	1122	13-14085-41	2016
9.1B2	562 N6	10C5	1104	10DX2	1104	11B554	2016	12-16	1617	13-085022	1122	13-14085-49	2016
9.1B3	562	10C6	1104	10DX	1104	11B554-2	2016	12-17	1617	13-085023	1122	13-14085-50	1617
9.1N3	562	10C8	1114	10E-1	1104	11B554-3	2016	12-18	1617	13-085024	1114	13-14085-54	2009
9.1Z	562	10C10	1114	10E1	1104	11B555	2016	12-19	1617	13-085026	1122	13-14085-72	1617
9.5037	2009	10C573	2016	10E1LF	1104	11B555-2	2016	12-23163-3	2016	13-085027	1114	13-14085-74	2016
10-002	2009	10C573-2	2016	10E2	1104	11B555-3	2016	12-108001	1104	13-085028	562	13-14085-75	2016
10-003	2009	10C573-3	2016	10E4	1104	11B1055	2016	12-108003	1104	13-085029	1123	13-14085-76	2016
10-004	2030	10C574	2016	10E4A	1104	11C551	2016	12-102001	1104	13-085039	1104	13-14085-77	2016
10-008	2009	10C574-2	2016	10E4B	1104	11C551-2	2016	12 SZ-4QB01-12A	563	13-085042	562	13-14085-83	2009
10-010	1122	10E4B-3	2016	10E6	1104	11C551-3	2016	12A1	563	13-087005	1122	13-14085-84	1617
10-012	1104	10D	1104	10E6	1104	11C551-3	2016	12B	563	13-087005(DIODE)	1122	13-14085-85	2016
10-013	562	10D-02	1104	10E-7L	1104	11C553	2016	12B(1WATT)	563	13-087027	1104	13-14085-87	2023
10-080009	2016	10D-05	1104	10E10	1114	11C553-2	2016	12B,,	563	13-4P63-1	2020	13-14085-88	2020
10-080010	1617	10D05	1104	10E10(F.A-8)	1114	11C553-3	2016	12B1(1-WATT)	563	13-12-03-0	1123	13-14085-89	1617
10-085001	1123	10D-06	1104	10E-10P	1104	11C557	2016	12B1(1WATT)	563	13-17-6	1617	13-14085-91	2009
10-085004	1123	10D06	1114	10E11F	1104	11C557-2	2016	12B-2	1104	13-17-6(SEARS)*	2009	13-14085-92	2023
10-085005	1123	10D05	1104	10F1	1104	11C557-3	2016	12B2	563	13-1032-5	2016	13-14085-93	2020
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10-085010	1104	10D-2	1104	10G1052	2016	11C1057	2016	12B-2B1P-M	1104	13-1847-1	2020	13-14085-96	2016
10-085014	1123	10D2	1104	10GA	1104	11C1536	2030	12B3	563	13-2384-2	2016	13-14085-97	2016
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10-085025	1122	10D-2B(-4)	1104	10H55T	2016	11DF2	1104	12C2(ZENER)	563	13-10102-1	1104	13-14085-122	2009
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10-2	2016	10D4A	1104	10J2F	1104	11F1	1104	12J2F	1104	13-10321-6	2016	13-14094-8	1123
10-25C8C	2016	10D4B	1104	10K	1104	11E1TA1-1	1104	12P2	1122	13-10321-7	2016	13-14094-9	1123
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10-25C380	2016	10D5	1104	10N1	1104	11G1053	2016	12V	563	13-10321-9	2016	13-14094-12	1104
10-7	1104	10D5B	1104	10O-202	1123	11J2	1104	12V1W	563	13-10321-10	2016	13-14094-14	1123
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10-42	1104	10D-6	1104	10P1A	2023	11N267	1123	12X047	1617	13-10321-12	2016	13-14094-16	1104
10-102005	1114	10D6	1104	10R1B	1104	11T4	1067	12Y	563	13-10321-14	2016	13-14094-17	1104
10-13002-004	2041	10D6D	1104	10R1B	1104	11T4S	1067	12Z	563	13-10321-15	2016	13-14094-24	1104
10A590B	1104	10D6F	1104	10R3B	1104	121N	1101	13-0003	1122	13-10321-16	2016	13-14094-33	1122
10AG2	1104	10D7	1114	10R4B	1104	121W10	1122	13-0003(PACE)	1122	13-10321-17	2016	13-14094-38	1104
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13-18924-1(LARGE CAS)		13-28391-1A	2023	13-33190-1	1617	13-43462-3	2020	14-0104-2	2027	14-602-16	1617	14-853-23	2016
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13-18924-1(SMALL CAS)		13-28391-2A	2023	13-33359-1	1617	13-43773-1	2009	14-0104-7	1617	14-602-18	2030	14-856-23	2023
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-		
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21M317	1104	23-5035	2041	24MW-656	2016	24MW964	2016	25-100015	2016	28PC1	1123	31 ST-25C1923-O	2058
21M323	1123	23-5037	2030	24MW656	2016	24MW965	2016	25 SD-1N60-TM5	1123	28ST-25C1213C	2009	31DF1	1114
21M325	1123	23-5038	2041	24MW657	2009	24MW967	1123	25 ST-25C1815O	2009	20ST-25D467C	2009	31DF2	1114
21M330	1122	23-5039	2030	24MW658	2016	24MW976	2023	25A	2016	28ST-MPS9633C	2009	31ST-25A733Q	2023
21M355	2023	23-5052	2009	24MW659	2016	24MW977	2020	25A1	2016	28Z6	564	31ST-25A733Q/R	2023
21M386	1104	23-PT274-120	2016	24MW660	2009	24MW988	1617	25A2	1617	28Z6A	564	31ST-25A733R	2023
21M387	2030	23-PT274-121	1617	24MW661	2023	24MW989	2035	25A473Y	2027	28Z6AF	564	31ST-25C1923-0	2058
21M408	2016	23-PT274-122	2023	24MW662	2020	24MW990	2016	25A561Y	2023	28Z6F	564	31ST-25C1923-0	2058
21M417	1104	23-PT274-123	2016	24MW663	2030	24MW992	1617	25A1262-005	2016	30-007-0	2023	32-0000	1123
21M419	1104	23-PT274-125	1122	24MW665	1123	24MW995	1104	25A1273-001	1617	30-005072	2041	32-0001	1123
21M432	1123	23-PT275-121	2016	24MW667	1122	24MW998	562	25A1201-001	2016	30-8054-7	1104	32-0	

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46-8694-3	1101	46-86199-3	1104	46-86210-3	1417	46-86441-3(,25D348)	2023	46-86551-3	2023	46-86479-3(,25A933Q)	46-86482-3(,25C1815		
46-8695-3	1617	46-86200-3	1122	46-86311-3	2014	46-86442-3	2055	46-86552-3	1114	46-86479-3(,25A933R)	(Y)	2009	
46-8697-3	1104	46-86201-3	1104	46-86314-3	2016	46-86443-3	1104	46-86553-3	2055	46-86479-3(,25A933S)	46-86682-3(,25C1815)	2009	
46-13179-3	007	46-86201-3(CENTER PIN)	1104	46-86314-3A	2016	46-86444-3	564	46-86554-3	1114	46-86479-3(,25A933T)	46-86682-3(,25C1815G)	2009	
46-13238-3	1411	46-86202-3	1101	46-86315-3	2023	46-86445-3(,25D150)	564	46-86555-3	1114	46-86479-3(,25A1015	46-86682-3	(,25C1815-GR)	2009
46-13272-3	2401	46-86207-3	2016	46-86316-3	2035	46-86477-3	2055	46-86578-3	2023	46-86679-3(,25A1015	46-86682-3(,25C1815-O)	2009	
46-13272-3(,TC4001BP)	2401	46-86208-3	2016	46-86317-3	2020	46-86478-3	1122	46-86578-3	1114	46-86679-3(,25A1015	46-86682-3(,25C1815-Y)	2009	
46-13296-3	2466	46-86209-3	2016	46-86321-3	1104	46-86484-3	1123	46-86563-3	2055	46-86679-3(,25A1015	46-86682-3(,25C1815-Y)	2009	
46-13296-3(,LC4066B)	2466	46-86212-3	1104	46-86322-3	1104	46-86485-3	2009	46-86565-3	2023	46-86679-3(,25A1015	46-86682-3(,25C1815-Y)	2009	
46-13296-3(,LC4066B)	2466	46-86214-3	1123	46-86326-3	1104	46-86486-3	2055	46-86570-3	563	46-86679-3(,25A1015)	46-86682-3(,25C1815G)	2009	
46-13296-3(,LC4066B)	2466	46-86224-3	2016	46-86329-3	2020	46-86488-3	1114	46-86574-3(,25B591)	2023	46-86679-3(,25A1015)	46-86682-3(,25C1815G)	2009	
46-13296-3(,LC4066B)	2466	46-86228-3	1617	46-86337-3	1104	46-86489-3	1104	46-86578-3	2023	46-86679-3	46-86682-3	(,25A1015-GR)	2023
46-13296-3(,LC4066B)	2466	46-86229-3	2023	46-86338-3	1122	46-86492-3	2055	46-86578-3	2023	46-86679-3	46-86682-3	(,25A1015-GR)	2023
46-13296-3(,LC4066B)	2466	46-86229-3A	2023	46-86339-3	1104	46-86494-3	1114	46-86578-3	2023	46-86679-3	46-86682-3(,25C1815Y)	2009	
46-13296-3(,LC4066B)	2466	46-86230-3	2023	46-86343-3	1123	46-86497-3	1104	46-86578-3	2023	46-86679-3	46-86682-3(,25C1815Y)	2009	
46-13296-3(,UPD4068BC)	2466	46-86231-3	1617	46-86347-3	2020	46-86501-3	561	46-86579-3	2009	46-86679-3(,25A1015-O)	46-86682-3(,25C2603F)	2009	
46-13310-3	038	46-86233-3	2030	46-86348-3	2020	46-86503-3	1104	46-86581-3	2027	46-86679-3(,25A1015-Y)	46-86682-3(,25C2603F)	2009	
46-13311-3	1772	46-86238-3	2023	46-86351-3	1104	46-86505-3	1104	46-86587-3	563	46-86680-3	46-86683-3	2009	
46-13313-3	2413	46-86238-3A	2023	46-86352-3	2016	46-86507-3(,25A562M-O)	2023	46-86589-3	2009	46-86680-3	46-86683-3	2009	
46-13313-3	2413	46-86239-3	2016	46-86353-3	2016	46-86507-3	1104	46-86610-3	1114	46-86682-3	46-86687-3	2023	
46-13313-3(,HD14613B)	2413	46-86240-3	2016	46-86354-3	2016	46-86507-3(,151834)	1104	46-86614-3	2009	46-86682-3(,25C536[E])	46-86687-3(,25A933Q)	2023	
46-13313-3(,HD14613B)	2413	46-86244-3	2016	46-86355-2	1104	46-86507-3(,151834)	1104	46-86614-3(,25C1427-Y)	2009	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13313-3(,LC4013B)	2413	46-86247-2	1617	46-86355-3	1104	46-86507-3(,151834)	1104	46-86614-3(,25C1427-Y)	2009	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13313-3(,LC4013B)	2413	46-86247-3	2009	46-86357-2	2016	46-86507-3(,151834)	1104	46-86614-3(,25C1427-Y)	2009	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13313-3(,TC4013BP)	2413	46-86230-3	1122	46-86338-3	1104	46-86507-3(,B43-04)	1104	46-86614-3(,25C1427-Y)	2009	46-86682-3(,25C536[G])	46-86687-3(,25A933Q)	2023	
46-13313-3(,UPD4013BC)	2413	46-86251-3	2016	46-86360-3	2017	46-86507-3(,C44-04)	1104	46-86616-3	2020	46-86682-3(,25C536[G])	46-86687-3(,25A933Q)	2023	
46-13315-3	2413	46-86252-3	2009	46-86364-3	1104	46-86507-3(,C44-04)	1104	46-86620-9(,25C1875)	46-86682-3(,25C536E)	46-86682-3(,25C536E)	46-86687-3(,25A933Q)	2023	
46-13315-3	2413	46-86253-3	2023	46-86365-3	1104	46-86507-3(,ERC24-04)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13315-3	2413	46-86254-3	1122	46-86371-3	2030	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	2401	46-86257-3	1617	46-86374-3	2020	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86261-3	1617	46-86375-3	1617	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86262-3	2016	46-86374-3	2020	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86263-3	1104	46-86377-3	2020	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86265-3	2016	46-86378-3	1617	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86266-3	1123	46-86379-3	563	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86267-3	1104	46-86380-3	1122	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86268-3	1617	46-86381	2030	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86269-3	2016	46-86381	2030	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86270-3	1104	46-86383-3	1104	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86271-3	1104	46-86383-3	1104	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86272-3	1104	46-86388-3	2041	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86273-3	1617	46-86389-3	2016	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86274-3	2023	46-86390-3	2055	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86275-3	561	46-86394-3	561	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86285-3	2016	46-86394-3	561	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86285-3	2016	46-86394-3	561	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86285-3	2016	46-86394-3	561	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86285-3	2016	46-86394-3	561	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86285-3	2016	46-86394-3	561	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86285-3	2016	46-86394-3	561	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86285-3	2016	46-86394-3	561	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86285-3	2016	46-86394-3	561	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86285-3	2016	46-86394-3	561	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86285-3	2016	46-86394-3	561	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86285-3	2016	46-86394-3	561	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86285-3	2016	46-86394-3	561	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86285-3	2016	46-86394-3	561	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86285-3	2016	46-86394-3	561	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86285-3	2016	46-86394-3	561	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86285-3	2016	46-86394-3	561	46-86507-3(,EU2)	1104	46-86628-3(,25C536[F])	46-86682-3(,25C536[F])	46-86682-3(,25C536[F])	46-86687-3(,25A933Q)	2023	
46-13317-3	038	46-86285-3	2016	46-86394-3	561	46-86507-3(,EU2)	1						

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46-861009-3(,25B307)	2627	46AR8	1104	46-01-	1104	46-8022A90	1104	46-87120A07	1104	46-97046A21	1417	46-97177A13	1417
46-861014-3	2623	46AR9	1104	46-03005A01	1122	46-8007A56	1123	46-87120A09	1123	46-97046A22	1617	46-97177A14	2023
46-861016-3	1114	46AR10	1104	46-03005A03	1122	46-8015A401	1123	46-87120A0607	1104	46-97046A24	1617	46-97177A15A	2023
46-861022-3	1104	46AR11	1104	46-03005A05	1122	46-8107A901	1123	46-87120A10	1114	46-97046A25	2016	46-97177A15	1123
46-861037-2	2009	46AR12	1104	46-03005A06	1122	46-8176A701	1123	46-87120A11	1122	46-97046A26	2023	46-97177A16	2023
46-861037-3	2009	46AR13	1114	46-03005A07	1104	46-8233A01	1123	46-87926A01	1104	46-97046A27	2023	46-97222A01	1123
46-861037-3	2009	46AR15	1114	46-03073A09	562	46-8233A02	1123	46-88688A79	1104	46-97046A28	1617	46-97222A02	1104
46-861037-3(,25C2960F)	2009	46AR16	1114	46-45N2	2016	46-83005A66	1617	46-88688A79B	1104	46-97046A29	2030	46-97238A34	1617
46-861038-3	561	46AR18	1114	46-191A01	1104	46-83005A72	1617	46-89394A01	1617	46-97046A30	2020	46-97239A01	1123
46-861041-3	1104	46AR21	1104	46-191A01-9	1104	46-83006A56	1123	46-82292A03	1123	46-97046A38	2020	46-97270A01	1104
46-861041-3(,GFH-30G)	1114	46AR27	1104	46-191A02	1104	46-83026A47	1617	46-83875D01	1067	46-97046A39	2030	46-97270A02	1123
46-861041-3(,GU-3A)	1104	46AR28	1104	46-191A03	1104	46-83026A48	1617	46-83875D04	1067	46-97046A42	1617	46-97270A03	1171
46-861043-3(,25C2216)	2009	46AR29	1104	46-191A04	1104	46-83026A49	1617	46-83875D05	1067	46-97046A43	1617	46-97270A04	2016
46-861045-3	561	46AR35	1104	46-191A06	1104	46-83029A20	1123	46-83875D06	1067	46-97046A45	2016	46-97270A05	1123
46-861045-3(,05Z6.2V)	561	46AR50	1114	46-191A07	1104	46-83075A76	1123	46-86148	1104	46-97046A48	2035	46-115147	1304
46-861067-3(,05Z12X)	561	46AR52	1114	46-191A08	1104	46-83076A52	1617	46-86168-3	1123	46-97046A47	2035	46-123173	2009
46-861089-3	561	46AR59	1114	46-191A08	1104	46-83076A81	2016	46-86193	1123	46-97046A48	2035	46-123802	1617
46-861111-3	561	46AX1	1104	46-191A09	1104	46-83076A82	2016	46-86200-3	1123	46-97046A50	1617	46-123803	1617
46-861114-3	1104	46AX2	1104	46-971A95	1617	46-83076A83	1617	46-86289-3	1122	46-97046A51	2016	46-124804	2016
46-861114-3(,C25-06M)	1104	46AX3	1104	46-971A04	2016	46-83077A10	1617	46-86343-3	1123	46-97046A52	2009	46-124805	2016
46-861114-3(,RU3AM)	1104	46AX4	1104	46-971A05	1617	46-83077A11	1123	46-86376-3	1617	46-97046A57	1617	46-124806	2016
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46-861142-3	1104	46AX7	1104	46-1001A03	1617	46-83077A30	1617	46-90165A01	2023	46-97048A02	1123	46-134173	1617
46-861142-3(,C75-06M)	1104	46AX8	1104	46-1001A04	2023	46-83077A31	1617	46-90165A01A	2023	46-97048A03	1104	46-134190A1G	2016
46-861149-3(,ERC25-04)	1104	46AX9	1104	46-1001A05	1617	46-83077A32	1123	46-90172A01	1617	46-97048A05	1123	46-134387	1123
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50-40205-09	2023	51IN60P	1123	53A010-1	1114	53L001-1	1123	56-25	564	57-55	1067	57A138-4-6	2009
50-40708-06	2009	51S345	1123	53A011-1	1104	53L001-5	1102	56-26	1123	57-58	1104	57A139-1	2016
50-40708-07	2009	51LN60P	1123	53A018-1	1122	53L001-10	1123	56-27	1122	57-59	1104	57A139-2	2016
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50-41001-01	2055	51S10611A11	1801	53A022-1	1104	53N001-2	1104	56-35	1617	57-65	1104	57A139-4-6	2016
50 ST-25D467B	2009	51S10611A12	1802	53A022-2	1123	53N001-3	1104	56-44	565	57-120	563	57A140-12	1617
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50C380-OR	2016	51X9048											

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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57A166-12	1617	57B2-101	1617	57B143-9	2016	57C6-4	1617	57D136-12	1617	62-8555	2009	63-8701	1617
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57A177-12	2016	57B2-116	1617	57B144-12	1617	57C6-17	1617	57L3-1	1617	62-13261	1104	63-8824	1104
57A178-12	2023	57B2-126	1617	57B145-12	2023	57C6-18	2009&23	57L3-4	1617	62-13477	1104	63-8955	1123
57A179-4	2016	57B2-152	1617	57B145-12A	2023	57C6-19	1617	57L106-9	2035	62-15318	1123	63-9337	1617
57A180-4	2009	57B2-192	1617	57B146-12	1617	57C6-27	1617	57M1-14	1617	62-15483	1104	63-9338	1617
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57A194-12	1067	57B21-2	2016	57B152-7	1617	57C7-9	1617	57M1-33	2041	62-18641	1617	63-10664	1104
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57A201-14	2023	57B21-12	2016	57B153-1	1617	57C10-1	2016	57M3-1	2041	62-19280	1617	62-10732	1617
57A202-13	1617	57B21-13	2016	57B153-2	2009	57C10-2	2016	57M3-1A	2041	62-19452	2023	63-10733	1617
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57A216-12	2023	57B27-2	2009	57B153-8	1617	57C15-1	2009	57M3-6A	2041	62-19837	1617	63-10860	1617
57A219-14	2009	57B30-12	2016	57B153-9	1617	57C15-2	1617	57RECT-SI-1021(AU)	1617	62-19838	1617	63-11025	1617
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57A244-14	2020	57B106-12	2023	57B160-1	2016	57C19-1	2023	58 SZ-RD6.2EB3	561	62-20240	1617	63-11469	1617
57A249-4	2016	57B107-8	1617	57B160-2	2016	57C19-1A	2023	58A290-12	2035	62-20241	1617	63-11470	1617
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57A252-1	1617	57B108-6A	2023	57B160-4	2016	57C24-1	1617	58SZ-RD6.2EB3	561	62-20243	1617	63-11472	1617
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57A256-10	2047	57B113-9	2030	57B160-6	2016	57C24-3	1617	59E001-1	1122	62-20244A	2023	63-11757	1617
57A258-8	2023	57B117-9	1617	57B160-7	2016	57C24-4	1617	59SD-1N34A(AU)	1123	62-20319	1617	63-11750	1617
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57A265-4	1617	57B119-12	1617	57B167-9	2030	57C104-8	2016	60-3	1104	62-20597	1122	63-11825	2009
57A268-9	1617	57B120-12	1617	57B169-2	2035	57C105-12	2009	60 SZ-RD9.1EB2	562	62-20643	564	63-11831	1617
57A279-14	2020	57B121-9	1617	57B169-12	2035	57C109-9	2030	60C	1104	62-21369	1104	63-11832	1617
57A280-14	2009	57B122-9	2023	57B170-9	2030	57C121-9	1617	60D	1104	62-21496	1617	63-11833	1617
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57A311-14	2023	57B130-9A	2023	57B184-12	2016	57C182-12	2009	61-259	1123	62-112524	1123	63-11957	1104
57A312	2055	57B131-10	2020	57B185-12	2023	57C279-14	2020	61-744	1617	62-113998	1104	63-11989	2030
57A313-11	2055	57B132-10	2027	57B186-11	2055	57D1-1	1123	61-747	2030	62-114267	2016	63-11991	2041
57A402-4	2016	57B133-12	2023	57B187-12	2020	57D1-2	1123	61-751	1617	62-118825	1114	63-11991A	2041
57A403-12	2023	57B134-12	2016	57B191-12	1617	57D1-51	1617	61-754	1617	62-125528	1122	63-12003	1617
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57A419-GY	2009	57B136-12	1617	57B198-11	2055	57D1-55	2009&23	61-813	2030	62-126856	1104	63-12062	1617
57A419-Y	2009	57B137-12	2023	57B213-11	2355	57D1-62	1123	61-814	1617	62-129604	2016	63-12154	2023
57A420-GR	2023	57B137-12A	2023	57B243-10	1067	57D1-64	1123	61-815	1617	62-130045	1122	63-12154A	2023
57A420-Q	2023	57B138-4	2009	57B258-8	2023	57D1-75	1617	61-1053-1	2020	62-130046	1122	63-12156	2023
57A458-O	2023	57B139-4	2009	57B263-11	2055	57D1-76	2023	61-1320	1104	62-130047	562	63-12156A	2023
57B2-27	1617	57B140-12	1617	57B280-14	2009	57D1-153	1617	61-1400	1617	62-130761	564	63-12157	2023
57B2-28	1617	57B141-1	2016	57B281-14	2023	57D1-124	1617	61-1401	1617	62-130762	564	63-12157A	2023
57B2-38	2030	57B141-2	2016	57B282-12	1617	57D6-4	1617	61-1402	1617	62 ST-25C458	2009	63-12158	1123
57B2-57	2030												

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63-12497	1617	65B	2023	66X0047-001	1123	72N1	2018	76-13866-17	2016	78SZ-UZP-12B	563	83A30-1	1104
63-12706	1617	65C	2023	66X0048-001	1124	72N1B	2020	76-13866-18	2016	79P015	1123	83B38-1	1123
63-12707	1617	65C1	2023	66X0049-001(DIODE)	1123	72N2	2018	76-13866-19	2016	79P114-1	2030	83C30-1	1104
63-12710	1617	65D	2023	66X0049-002	1123	72N2B	1617	76-13866-19(VHM)	2016	79P114-3	2030	83P1	1123
63-12751	1617	65D1	2023	66X0049-002	1123	72ST-MPS9750F	2023	76-13866-20	2016	79P153	1101	83P1A	2023
63-12752	1617	65E	2023	66X0049-100	1123	72ST-MPS9750G	2023	76-13866-59	2016	80-001300	1114	83P1B	2023
63-12753	1617	65E1	2023	66X0051-001	1123	72T2	2020	76-13866-62	2016	80-001400	1114	83P1BC	2023
63-12754	1123	65F	2023	66X0056-001	1122	72Z	1104	76-14090-1	2030	80-050100	1617	83P1M	2023
63-12755	1123	65F1	2023	66X0062-001	1122	73-15	564	76-14196-1	1123	80-051500	1617	83P1MC	2023
63-12756	1123	65J2	1104	66X0069-001	1122	73 ST-25C945R(AU)E		76-I(SYLVANIA)	2023	80-052102	1617	83P2	2023
63-12757	1123	65P117	1104	66X0070-001	1122		2009	76-I(SYLVANIA)	2023	80-052202	1617	83P2A	2023
63-12874	1617	65P124	1104	66X0071-001	1121	73N1	1104	76 SI-1N4148(AU)	1122	80-052302	1617	83P2AA	2023
63-12875	1617	65P124-1	1104	66X0072-001	1114	73N1B	1617	76 SI-HD14011BP	2411	80-052402	2041	83P2AA1	2023
63-12877	1617	65P124-2	1104	66X0073-001	1123	73W00124	1822	76 SO-1N4148(AU)	1122	80-052600	1617	83P2M	2023
63-12878	1617	65P153	1104	66X0074-001	1104	74	2016	76 ST-28C1815GR	2009	80-053001	1617	83P2M1	2023
63-12879	1617	65P155	1104	66X0053-001	1104	74 ST-25A10150(AU)E		76G1450J	1104	80-053300	2030	83P2N	2023
63-12933	1617	65P206	1104	66X14	1104	76N1	2023	76N1	1617	80-053400	1617	83P3	2023
63-12940	1617	65P284	1104	66X14-C	1104	74 ST-25C763D	2016	76N1(REMOTE)	2009	80-053600	2016	83P3A	2023
63-12941	1617	65P297	1104	66X14C	1104	74 ST-25C785-O	2058	76N1(VID)	2016	80-60-1	1123	83P3AA	2023
63-12942	1617	65P2-25C454B	2009	66X16	1104	74 ST-25C1906(AP)	2016	76N1B	2030	80-308-2	1617	83P3AA1	2023
63-12943	1617	66-2246	1104	66X17	1104	74N1	1617	76N1M	1617	80-318250	1617	83P3B	2023
63-12944	2009	66-6030-00	1104	66X19	1104	76P1	2023	76N2	1617	80-337390	1617	83P3B1	2023
63-12946	1617	66-6031-00	1104	66X20	1123	74S7-29C763D	2016	76N3	2030	80-338030	2016	83P3M	2023
63-12948	1617	66-8504	1114	66X21	1104	74S7-29C785-O	2058	76N3B	2030	80-339040	2016	83P3M1	2023
63-12949	1617	66-11502-02	2009	66X24	1104	74T2	1104	76SD-1N4148(AU)	1122	80-339430	2016	83P4	2023
63-12950	1617	66-11502-03	2009	66X26	1104	75	2020	76SD-1N4148(AU)		80-339440	2016	84 SZ-RD12EB3	563
63-12951	1617	66-11702-11	2009	66X29	1122	75-100-001	1122	{,1N4148(A	1122	80-383840	2016	84A20	1102
63-12952	1617	66-19013-07J	2009	66X41-1	1101	75 ST-25D467C(AU)E		76SI-HD14011BP	2411	80-383930	2016	85	1122
63-12953	1617	66-19014-03J	2009	67-1000-00	1104		2009	76Z4	563	80-383940	1617	85-5	1104
63-12989	2030	66-19014-03S	2009	67-1003-00	1104	75A198-11	2055	77(DIO)	1103	80-389910	1617	85 ST-25A733Q	2023
63-12990	2030	66-19430-00	2027	67-31212-04	563	75D01	1122	77-271001-1	1122	80-389930	1617	85 ST-25C458(AU)E	2023
63-13000	1123	66-29015-03J	2023	67-34002-04	1104	75D02	2047	77-271001-1	1123	80-414120	2041		2009
63-13114	2030	66-29015-03S	2023	67-34003-04	1122	75D04	1047	77-271334-1	1104	80-414130	2041	85ST-25A733Q	2023
63-13215	2030	66-F29-1	1617	67-34148-07	1122	75D05	1047	77-271374-1	1104	80-421980	1617	86	1102
63-13322	2023	66-P11120	2022	67-35402-04	1143	75D06	1047	77-271453-1	1617	80A5	1114	86-0002	1123
63-13322A	2023	66-P11120	2023	67-39221-0MP	562	75D1	1104	77-271490	2030	80A5	1114	86-0005	563
63-13419	1617	66F-001	1104	67-40060-01	1123	75D2	1104	77-271490-1	2030	80H	1114	86-0006	1104
63-13438	1617	66F001	1104	67-40060-02	1123	75D8	1114	77-271967-1	1617	81-27123100-3	1104	86-0007	1101
63-13440	1617	66F001-1	1104	67 SD-1N34A	1123	75D10	1114	77-272913-1	2020	81-27123150-8	1123	86-0007-004	1617
63-13441	1617	66F001-1	1104	67J2	1114	75E1	1104	77-272914-1	2027	81-27123300-3	1104	86-0008	1123
63-13642	1123	66F010	2020	67J2A	1114	75E2	1104	77-272999-1	2030	81-27123307-3	1104	86-0016-01	1104
63-13864	1617	66F016-1	1122	67SD-1N34A	1123	75E3	1104	77-273001-2	1617	81-27125140-7	1617	86-0022-001	1617
63-13903	1104	66F016-2	1122	68-A-8316-P1	2023	75E4	1104	77-273715-1	2020	81-27125140-7A	1617	86-0029-001	1617
63-13914	1104	66F017	1121	68 ST-MPS9700F	2009	75E5	1104	77-273716-1	2027	81-27125140-7B	1617	86-0031-001	1617
63-13926	2030	66F018	1123	68 SZ-RD12FB3	563	75E6	1104	77-273738-1	2030	81-27125160-5	1617	86-0035-001	2023
63-13927	1617	66F021-1	2016	68A831-P1	2023	75E7	1114	77-273739-1	2027	81-27125160-5A	1617	86-0511	1104
63-14032	1617	66F022-1	2016	68A9025-1	1801	75E8	1114	77-273739-1	1067	81-27125160-5B	1617	86-0513	1123
63-14051	1617	66F023-1	2023	68A9028	1802	75E10	1114	77A01	1122	81-27125270-2	1617	86-0516	1102
63-14052	1617	66F024-1	2023	68ST-MPS9700E	2009	75E11	2048	77A02	1122	81-27125270-2A	1617	86-0521	563
63-14057	1617	66F025-1	2030	68SZ-RD12FB3	563	75F05	1104	77A11	1122	81-27125270-2B	1617	86-0522	1122
63-14195	1104	66F026-1	2016	68-1810	2009	75N5	564	77A13	1122	81-27125300-7	1617	86-1-3	1104
63-14483	1104	66F027-1	1617	68-1811	2009	75N5AAA	564	77N1	1617	81-46123001-3	1123	86-1-1	1101
63-14482	1617	66F028-1	1617	68-1812	2009	75N5.1	564	77N2	1617	81-46123004-5	1104	86-3-3	1104
63-14980	1617	66F029-1	1617	68-1813	2009	75N5.2	561	77N2B	2030	81-46123004-7	1104	86-4-1	1104
63-14982	1617	66F041-1	2023	68-1814	2030	75N12	562	77N3	1617	81-46123005	1104	86-7-1	1104
63-22724	1123	66F042-1	2016	68-1816	2016	75R1B	1104	77N4	1617	81-46123006-2	1123	86-9-3	1104
63-25342	1123	66F057-1	1617	68-1820	1123	75R2B	1104	77N5	1617	81-46123013-8	1123	86-10-01	1123
63-25933	1123	66F057-2	1617	68-1822	1122	75R3B	1104	77N6	1617	81-46123014-6	1104	86-10-1	1123
63-26382	1123	66F-084-1	2035	68-1823	1104	75R4B	1104	77N5-2N5062	1067	81-46123015-3	1123	86-10-1, 15188	1123
63-26597	1104	66J2	1104	68-2246	1104	75R5B	1104	78-900-002	1604	81-46123018-7	1104	86-10-1, 15188FM	1123
63-27432	1124	66X002-001	1122	68-2922	1123	75R6B	1104	78-900-004	2068	81-46123029-4	1122	86-14-1	1123
63-28250	1123	66X0020-000	1123	68 ST-HZ12A3(AU)	563	75R7B	1114	78-254564-1	1104	81-46123006-0	2016	86-15-1	1123
63-28888	1123	66X0020-001	1123	69N1	2016	75R8B	1114	78-254564-2	1104	81-46125007-8	2016	86-20-1	1123
63-29461	1617	66X0023-001	1104	69N17H63	2009	75R9B	1114	78-271031-1	1123	81-46125012-8	2016	86-21-1	1104
63J2	1104	66X0023-002	1114	70 ST-25C945Q	2009	75R10B	1114	78-271032-2	1123	81-46125013-6	2016	86-22-1	1123
63RECT-SI-1021	1104	66X0023-004	1104	70F40	1104	75W-005	1173	78-271143-1	1104	81-46125016-9	1617	86-22-3	1104
64-1	1123	66X0023-005	1104	70N1	1617	75W005	1173	78-271199-1	1123	81-46125019-3	1617	86-23-1	1101
64-8054-6	1104	66X0023-006	1104	70N1M	2016	75Z9.1	562	78-271228-1	1123	81-46125026-8	1617	86-23-3	1104
64-J2	1104	66X0023-007	1104	70N2	1617	75Z9.1A	562	78-271283-1	563	81-46125027-6	1617	86-25-1	563
64 RECT-SI-1001(AU)	1104	66X0023-008	1104	70N3	2016	75Z9.1B	562	78-271383-3	564	81-46125030-0	2016	86-26-1	1104
	1104	66X0023-009	1114	70N4	1617	75Z9.1C	563	78-271383-4	564	81-46125032-6	2016	86-27-1	1122
	1104	66X0023-1	1104	70N40	1104	75Z11	563	78-271400-1	1104	81-46125033-4	2016	86-28-3	1104
64RECT-SI-1001(AU)	1104	66X0028-001	1104	70ST-25C945D	2009	75Z11A	563	78-273002-1	1123	81-46125065-6	2035	86-30-1	1104
	1104	66X0028-008	1114	70F40	1104	75Z11B	563	78-273008	1104	81 ST-25A10150(AU)B	2023	86-30-3	1104
64T4	1047	66X0033-000	1104	70.01.704	1617	75Z11C	563	78-273008-1	1104			86-31-1	563
65	1104	66X0033-001	1104	71-126268	1617	75Z12	563	78-273008-5	1104	81 ST-25A1050(AU)B	2023	86-32-1	1104
65-085002	1123	66X0037-001	1104	71 SZ-RD12B(AU)	563	75Z12A	563	78 SZ-UZP-12B	563		202		

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DEVICE	276	DEVICE	276	DEVICE	276	DEVICE	276	DEVICE	276	DEVICE	276	DEVICE	276
86-43-3	1104	86-43-1	563	86-43-2	3030	86-401-2	2023	86-5007-3	1123	86X0036-C01	2023	87-10-1	1123
86-45-1	1123	86-44-3	1101	86-476-2	3033	86-502-2	1617	86-5009-3	1104	86X0036-001(TRANSIST)		87-10-3	1101
86-46-3	1104	86-103-3	1067	86-476-20	3033	86-510-2	2030	86-5010-3	1122		2023	87-10-3	1114
86-47-3	1101	86-108-1	565	86-277-2	1617	86-511-9	2016	86-5011-3	1122	86X0036-001A	2023	87-218-U	2014
86-48-1	1123	86-108-3	1090	86-286-2	2023	86-512-3	2030	86-5012-3	1134	86X0038-001	2016	87-423-2	2023
86-49-1	1123	86-110-2	1617	86-286-20	2023	86-515-2(SEARS)	1617	86-5015-3	1122	86X0040-001	1617	87-593-2	2058
86-49-3	1104	86-110-3	1067	86-289-2	2016	86-520-2	1617	86-5018-2	1617	86X0040-001	1617	87-724-375-01	2009
86-50-3	1104	86-111-3	1104	86-290-2	2016	86-525-2	2016	86-5024-3	1104	86X0041-001	2023	87 RECT-SI-154	1104
86-51-2	1104	86-113-3	1067	86-291-2	2030	86-526-2	2016	86-5027-3	1122	86X0041-001A	2023	87 RECT-SI-154(AU)	
86-51-3	1104	86-116-3	1104	86-291-9	1617	86-527-2	2023	86-5028-3	1143	86X0042-002	2020		1104
86-52-1	1104	86-116-3 (HQP10G)		86-293-2	1617	86-528-2	2023	86-5029-3	1104	86X0043-001	2016	87A	1103
86-53-3	1122		1104	86-294-2	3033	86-529-2	2020	86-5032-3	1143	86X0044-001	2023	88-3	1134
86-54-3	1104	86-119-2	2817	86-294-20	2023	86-320-2	2023	86-5037-3	1122	86X0044-001A	2023	88-125	1104
86-55-3	1101	86-121-2	2030	86-298-2	2023	86-325-2	2023	86-5040-2	1617	86X0045-001	1617	88-331	1104
86-56-3	1101	86-123-2	1617	86-298-20	2023	86-325-2	2023	86-5041-2	1617	86X0046-001	2023	88-332	1104
86-56-3B	1101	86-125-1	1123	86-306-2	2030	86-536-2	2009	86-5044-2	1617	86X0047-001	2023	88-833	1104
86-56-3C	1101	86-128-3	1114	86-308-2	1617	86-537-2	2009	86-5045-2	1617	86X0048-001	1617	88-1250108	2016
86-56-3F	1101	86-128-3 (RM11A)	1114	86-309-2	1617	86-538-2	2009	86-5046-2	1617	86X0050-001	1617	88-1250109	1617
86-57-3	1104	86-138-2	2016	86-310-2	1617	86-547-2	2023	86-5049-2	1617	86X0051-001	2009	88 ST-25A1015Y	2023
86-58-1	562	86-138-3	2016	86-323-2	1617	86-551-2	1617	86-5050-2	1617	86X0052-001	2009	88SZ-RD12FB2	563
86-58-2	1617	86-139-2	1617	86-324-2	1617	86-552-2	2023	86-5051-2	1617	86X0054-001	2009	89 ST-MPS9410AK	2030
86-58-3	1104	86-139-2	1104	86-327-2	1617	86-554-2	1617	86-5058-2	1617	86X0054-001	1617	89 ST-MPS9410AK	2030
86-59-1	1104	86-143-2	1617	86-328-2	1617	86-555-2	2023	86-5058-2	1617	86X0058-001	2009	89WJ7546H	1123
86-59-3	1104	86-144-2	1617	86-329-2	2030	86-555-3 (25A495)	2023	86-5066-2	1617	86X0058-002	2009	90-30	2009
86-60-1	1122	86-146-1	1123	86-336-2	2030	86-555-2 (25A495-O)	2030	86-5070-2	2030	86X0058-003	2009	90-31	2009
86-60-3	1104	86-146-3	1104	86-339-2	1617		2023	86-5073-2	2030	86X0060-001	2016	90-32	2009
86-61-1	563	86-147-1	1104	86-339-9	1617	86-561-2	1617	86-5074-2	2030	86X0061-001	2016	90-33	2016
86-62-1	1122	86-147-3	1104	86-340-2	2023	86-563-2	2055	86-5079-2	2023	86X0062-001	2016	90-45	2016
86-62-3	1104	86-155-2	1617	86-340-20	2023	86-563-9	2055	86-5081-2	1617	86X0063-001	1617	90-48	2009
86-63-3	1104	86-157-2	2009	86-342-2	1617	86-564-3	2055	86-5084-2	2041	86X0066-001	2023	90-49	2016
86-64-1	1123	86-158-2	1617	86-349-2	1617	86-564-9	2055	86-5084-2A	2041	86X0066-003	2023	90-50	2016
86-65-1	563	86-161-3	2030	86-362-2	1617	86-565-2	1617	86-5093-2	2030	86X0071-001	2009	90-55	2016
86-65-1 (HQP01-12)	563	86-164-3	1617	86-364-2	1617	86-567-3	2030	86-5095-2	2030	86X0072-001	2023	90-56	2009
86-65-3	1104	86-170-2	2020	86-379-2	1617	86-568-2	2020	86-5096-2	2030	86X0075-002	2027	90-57	2009
86-65-4	1122	86-171-2	1617	86-381-2	2009	86-570-2	2023	86-5097-2	1617	86X0080-002	2020	90-60	2009
86-65-9	1104	86-175-2	1617	86-386-2	2016	86-570-2 (25A60BE)	2016	86-5099-2	1617	86X0080-100	2020&2027	90-61	2009
86-67-0	1104	86-178-2	2023	86-389-2	1617		2023	86-5101-2	2041	86X0081-001	1020	90-62	2035
86-67-2	1114	86-178-20	2023	86-390-2	1617	86-570-2 (KSA733)	2023	86-5101-2A	2041	86X0081-002	1020	90-65	2009
86-67-3	1104	86-182-2	1617	86-391-2	1617	86-573-2	1617	86-5102-2	2020	86X0090-001	2009	90-66	2009
86-67-3 (1N4004GP)		86-183-2	2023	86-393-2	2030	86-574-2	1122	86-5103-2	1617	86X0113-001	2009	90-68	1801
		86-183-20	2023	86-393-3	1617	86-592-2	2058	86-5107-2	2030	86X0114-001	1604	90-69	2009
86-67-3 (1N4005GP)		86-185-2	2016	86-399-2	1617	86-593-9	2058	86-5108-2	2020	86X0129-001	2020	90-70	2016
		86-186-2	2016	86-400-3	2016	86-594-2	2058	86-5109-2	2030	86X1	1617	90-71	2009
86-67-3 (1S1885)	1102	86-188-2	1617	86-403-3	1617	86-595-2	1617	86-5110-2	1617	86X16-1	1617	90-140	2009
86-67-3 (1S1887)	1103	86-189-2	1617	86-406-2	2023	86-596-2	2016	86-5111-2	1617	86X16-318	1617	90-179	2023
86-67-3 (1S1887A)	1103	86-191-2	1617	86-407-2	2023	86-597-2	2016	86-5112-2	2041	86X7-2	1617	90-180	2009
86-67-3 (1S1887AFA)		86-192-2	1617	86-416-2	2016	86-598-2	1617	86-5114-2	1617	86X7-3	1617	90-181	2009
		86-194-2	1617	86-417-2	2016	86-599-2	1617	86-5122-2	2035	86X7-4	1617	90-452	2009
86-67-3 (1S1887AFA-1)		86-195-2	1617	86-420-2	1617	86-600-2	2023	86-5911-3	1104	86X7-6	2023	90-453	2009
		86-196-2	1617	86-423-2	2023	86-604-2	2020	86-10003	2058	86X7-6013	2016	90-455	2009
86-67-3 (10B6)	1104	86-198-2	1617	86-428-2	2020	86-607-2	2009	86-100032	2058	86X8-1	1617	90-456	2009
86-67-3 (12-02R)	1102	86-199-2	1617	86-428-9	2020	86-607-2 (25C336E)	2009	86-100083	2058	86X8-2	1617	90-457	2009
86-67-3 (12-02RK)		86-201-2	1617	86-440-2	2020		2009	86-100084	2058	86X8-3	1617	90-458	2009
		86-202-2	1617	86-441-2	2020	86-607-2 (25C336F)	2009	86-100085	1617	86X8-4	1617	90-459	2009
86-67-3 (12135C)	1104	86-204-2	2016	86-442-2	2016		2009	86-100086	2058	86X8-5	1617	90-460	2020
86-67-3 (DSF10C)	1102	86-205-2	2030	86-444-2	2016	86-607-2 (25C536KE)	2016	86-100087	2058	86X8-6	2023	90-601	2009
86-67-3 (EM01Z)	1104	86-207-2	2030	86-445-2	2016		2009	86-100088	1617	86X8-7	2023	90-602	2009
86-67-3 (EM1Z)	1102	86-208-2	2030	86-452-2	2030	86-607-2 (K5C815)	2009	86-100089	2023	86X75-2	2027	90-603	2016
86-67-3 (ERB12-01RK)		86-210-2	2030	86-457-2	1617	86-607-2 (K5C945)	2009	86-100013	1122	86X483-2	2030	90-604	2058
		86-211-2	2030	86-458-2	1617	86-608-2	2023	86-100014	1122	86X6029-001	2016	90-605	2009
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86-67-3 (55277D)	1102	86-217-20	2023	86-460-2	1617	86-613-2	2020	86A327	2016	87-0001	2058	90-607	2035
86-67-3 (S1001-02)	1102	86-218-2	2023	86-461-2	1617	86-619-2	2058	86A332	2041	87-0002	2058	90-608	2035
86-67-3 (S1001-2)	1104	86-219-20	2023	86-462-2	1617	86-620-2	2058	86 ST-MPS9730D	2022	87-0003	2058	90-612	2035
86-67-3 (TVR3D)	1104	86-219-2	2023	86-463-2	2030	86-621-2	2016	86X0086-001	1617	87-0003	2016	90-613	2009
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86-67-8	1104	86-234-2	2030	86-465-2	2009	86-626-2	2055	86X0087-004	2016	87-0009	2016	90T2	1123
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86-68-3	1171	86-238-2	1617	86-472-2	1617	86-633-2	2055	86X0087-204	2016	87-0014	2009	91-46	1123
86-68-3A	1171	86-243-2	2016	86-475-2	2023	86-633-9	2055	86X0088-001	1617	87-0023-7	2058	91A	2016
86-70-1	1122	86-244-2	2016	86-477-2	2023	86-648-2	1617	86X0088-001	1617	87-0023-7	2009	91A1	1184
86-72-3	1114	86-243-2	2016	86-481-1	1617	86-650-2	2030	86X0088-004	1617	87-0027	2016	91A2	1104
86-74-1	1122	86-246-2	2023	86-481-2	1617	86-655-2	1617	86X0088-004	1617	87-0203-1	2009	91A3	1184
86-74-9	1122	86-246-20	2023	86-482-2	2023	86-661-2	1617	86X0012-001	2016	87-0212-1	2016	91A4	1114
86-75-3	1104	86-247-2	1617	86-483-2	1617	86-663-2	2020	86X0016-001	2023	87-0218-U	2016	91A05	1104
86-75-3 (SEARS)	1104	86-250-2	1617	86-483-3	1617	86-665-2	2041	86X0016-001A	2023	87-0228	2020	91A06	1104
86-76-1	1122	86-251-2	2023	86-484-2									

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92A11-1	1104	93A104-1	1104	93B52-27	1114	93C69-5	1122	96-5022-1	1104	96Z29C1213	2009	100-11	1122
92A11-7	1122	93A104-2	1104 N6	93B53-1	1104	93C69-6	1122	96-5023-01	1104	96Z58A-1A-94FF	1104	100-12	1123
92A109-1	1123	93A105-1	1123	93B53-2	1101	93C69-7	1104	96-5046-01	1104	96M(=HURLINE)	2016	100-13	1104
92A111-1	1104	93A110-1	1123	93B66-N	1122	93C69-9-55	1104	96-5059-01	1123	96N927	2016	100-14	562
92B12-2	1104	93A112-1	1114	93B64-1	1122	93C69-21	1104	96-5080-02	1117	96N932	2016	100-15	1104
92L102-2	1104	93A120	1104	93B64-2	1122	93C60-21-55	1104	96-5082-01	1104	96NPT	2016	100-120	1122
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92N18	2016	93B1-1	1104	93B65-2	1114	93C60-27	1104	96-5091-01	563	96XZ0868/15X	1123	100-130	1122
92T6	2016	93B1-2	1104	93B71-1	1114	93C64-1	1122	96-5093-01	1123	96XZ077844N	1123	100-132-00	1104
93-13	1122	93B1-3	1104	93B77-1	1123	93C64-2	1122	96-5093-02	1123	96XZ778/21N	1123	100-136	1123
93-202	1104	93B1-4	1194	93B77-1	1104	93C64-3	1122	96-5093-03	1123	96XZ778/44N	1123	100-137	1122
93A1-20	1104	93B1-5	1104	93B122	1104	93C64-5	1122	96-5094-01	1123	96XZ801/14N	1117	100-138	1104
93A1-21	1104	93B1-6	1104	93B123	1104	93C64-10	1104	96-5095-01	1104	96XZ6030/25N	2014	100-139	562
93A1D-1	1104	93B1-7	1104	93C1-20	1104	93C64-11	1123	96-5103-01	1104	96XZ6052/52N	1617	100-180	1123
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93A4-2	1104	93B1-9	1104	93C1-2021	1101	93C77-1	1123	96-5107-01	2030	96XZ6053/11N	1617	100-184	1122
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93A10-1	1104	93B1-14	1104	93C5-4	1101	93C210	1123	96-5110-03	564	98-301	1194	100-436	1123
93A11	1104	93B1-15	1104	93C7-1	1123	93C217	1101	96-5112-01	1114	98A12518	1104	100-438	1102
93A12	1104	93B1-16	1104	93C7-2	1122	93D39-42	563	96-5113-01	1104	98B5-4	1101	100-439	1123
93A12-1	1104	93B1-17	1104	93C7-3	1122	93D39-51	561	96-5115-01	1617	98T2	2009	100-520	1104
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93A27-1	1123	93B12	1104	93C16-2	1104	93L5-3	1104	96-5117-91	2041	99P6	2023	100A	1104
93A27-9	1104	93B12-1	1104	93C18-1	1114	93L5-4	1104	96-5118-01	1122	99P10	2023	100C	1114
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93A30-1	1104	93B19-1	1101	93C21-1	1123	93L5-7	1104	96-5133-02	563	99S012E	1617	100K10	1114
93A30-3	1104	93B24-1	1104	93C21-2	1123	93L5-8	1114	96-5149-01	1143	99S016	2016	100N1	2016
93A31-1	1122	93B24-2	1104	93C21-3	1123	93L101-2	1104	96-5152-01	1617	99S016-1	2016	100N1A5	2016
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93A38-1	1123	93B25-1	1123	93C21-5	1123	93L103-4	1104	96-5153-01	1617	99S018	2016	100N1P(SOUND)	2009
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93A42-7	1104	93B38-1	1123	93C26-1	1104	93T4120280156	1123	96-5177-01	1617	99S033	2016	100R8B	1114
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93A48-1	1122	93B39-12	563	93C26-6	1104	93 24.604	1123	96-5187-01	1617	99S037	2016	100W1	2016
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93A51-3	1104	93B41	1123	93C27-1	1123	94-1066-1	1104	96-5194-01	1114	99S039	2023	100X6A	2041
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93A60-2	1104	93B41-14	1104	93C30-1	1104	95-125	2016	96-5208-01	2030	99S083-1	2020	102-02	1123
93A60-5	1122	93B41-29	1123	93C30-3	1104	95-126	2016	96-5213-01	1617	99S084-1	2023	102-0373-00	2009
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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103-74	1123	103-295-01A	1122	107-8	1617	113-398	2016	120BLU	1617	121-506	2016	121-683	2023
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103-79	1123	103-295-02A	1122	107A(SCR)	1067	113A7739	1104	120P1M	2023	121-507	2016	121-687	2009
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103-101	1122	103-308	563	107D	1020	114-267	2016	121-14(ZENITH)	1104	121-521	2058	121-699-01	2023
103-102	1123	103-308A	563	107N1	2030	115	2023	121-31	1104	121-521	2058	121-699-02	2023
103-111	1114	103-315-03H	1104	107N2	1617	115-039	1104	121-31	1123	121-521(MOTOROLA)	2009	121-699A	2023
103-114	1123	103-315-03A	1104	107N3	1104	115-1	1617	121-113	2016	2009	121-701	2009	2009
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103-136	564	103-315-06(H315F4)	1104	108-0049-08	2035	115-13	2009	121-195B	1617	121-522	2009	121-703	2016
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103-159	1122	103-Z9001	1123	108C	1020	116-078	1617	121-316	2016	121-547	2058	121-725	2023
103-178	1122	103-Z9002	563	108D	1020	116-079	2016	121-317	2016	121-551	2058	121-726A	2041
103-185	1104	103-Z9006	565	108E-E2	1104	116-079	2016	121-318	2016	121-551(.55MM)	2058	121-730	2058
103-191	1104	103-Z9008	561	108F	1067	116-082	2016	121-318L	2016	121-560	2016	121-730H	2023
103-192	1122	103-Z9011	563	108GRN	2023	116-083	2016	121-321	2016	121-580	2016	121-731	2035
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103-212-76	1104	103P(AIRLINE)	2023	109-1	2009	116-200	2016	121-367	1617	121-587	2023	121-737CL	2030
103-216	1104	104-17(RCA)	2023	109-1(RCA)	1617	116-875	1617	121-369	1617	121-600	2009	121-739	2016
103-222	1122	104B6	1104	109-192	1123	117-134-11	1104	121-377	2016	121-600H	2023	121-742	2016
103-228	1104	104H0	2030	109B6	1104	118-1	2016	121-378	2016	121-600(ZENITH)	2009	121-745	1617
103-240	1122	104T2	2041	110	2023	118-2	2016	121-379	2016	121-602	2023	121-745H	2023
103-244H	1104	105	1123	110-629	1104	118-3	2016	121-380	2016	121-603	2023	121-746	2023
103-245	1104	105(AERONAUTICAL)	1617	110-635	1104	118-4	2016	121-404	1617	121-610	1617	121-748	2016
103-247H	1104	105-001-04	2009	110-636	1114	119-0054	1617	121-417	2023	121-612	2016	121-751	1617
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121-779	2016	121-945	2058	121-1072-01	2020	128WH1	1617	132-056	2023	145N1(LAST-LF)	2009	151-040-9-002	1122
121-787-01	2009	121-946	2016	121-1082-02	2020	129-14	1617	132-057	1617	145N1P	2016	151-040-9-003	1104
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121-831	2055	121-972-01	2009	121-Z9044	2055	130-146	2041	132-501	1617	149-4	2020	151-6	2009
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121-853X	2017	121-982H	2023	122-A484	2016	130-30702	1122	134P1A	2023	150-004-9-001	1123	152-047	1104
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121-857	2016	121-986A	2023	123-004	1617	130-40294	1617	135-3	1104	150-014-9-001	1123	152-052-9-002	561
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121-861	2035	121-987WH	2020	123-010	1617	130-40312	1617	136RED	1617	150-018-9-001	1104	152-079-9-002	561
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121-885	2058	121-1006	2020	123S-437	2030	130-VLO	2016	141-4	2009	150R10B	1114	154WK	1122 N2
121-886	2027	121-1008	2020	123T2	2016	130A17268	1104	141-430	2009	151-001-9-001	1122	155N1	1120
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163J2	1104	176-035-9-004	2020	189N1G	2031	201X2230-047	561	212-307	2009	229-0180-33	2016	250-0377	2030
164J2	1104	176-056-9-001	2058	192-120	561	201X3110-255	1104	212-695	1617	229-0180-34	2016	250-0385	2009
165-432-2-48-1	1122	176-056-9-003	2058	192-200	562	201X3120-109	1114	212-899	2023	229-0180-119	2016	250-0700	2016
165J2	1104	176-056-9-005	2009	192-1120	563	201X3190-108	1114	212-9000	1114	229-0180-123	1617	250-0711	2009
165N1	2009	176-060-9-001	2016	192N2	2055	(,RM-2AV)	1114	213-1	2030	229-0180-124	2016	250-0712	2009
166	1101	176-060-9-002	2009	194N1	2055	202-5-2300-01810	1101	215-51	1104	229-0180-149	2016	250-1213	2009
166J2	1104	176-060-9-003	2009	195N1	2020	202-5-2300-01910	1102	215-58	1104	229-0182-65	1123	250-1312	2016
167J2	1114	176-062-9-001	2009	195N1C	2020	202-5-2450-13540	1102	215-76(GE)	1104	229-0185-2	2016	250R1B	1143
167N1	1617	176-065-9-001	2009	195N1D	2020	202-5-3210-06220	561	215-76GE	1104	229-0185-3	2016	250R2B	1143
167N2	1617	176-072-9-005	2009	195N3	2020	202-5-9110-18820	1123	21524	564	229-0190-29	2016	250R3B	1144
168J2	1114	176-073-9-001	2016	195P2	2027	202-5-9521-01010	1122	217-1	2016	229-0190-36	2016	250R4B	1144
168N1	1617	176-074-9-001	2041	195P4	2027	203	1104	217-76-02	1104	229-0190-31	2016	251-2	1122
170(RCA)	2016	176-074-9-004	2009	196-634	1104	203-2	1104	217N1D	2041	229-0190-96	1617	252-2	1122
170-1	1122	176-075-9-001	2016	200	1104	203-3	1102	217N2C	2041	229-0190-29	2016	254-0102-119	2016
170-9	2030	176-075-9-003	2009	200-007	2016	203-5-4570-73452	2009	218-22	1617	229-0191-30	2016	254-1	563
171-1	1104	176-075-9-004	2009	200-010	2016	203-5-4570-73462	2009	218-23	1617	229-0192-19	2016	254G1	1104
171-2	1102	177-006-9-001	2023	200-011	2030	203-5-4921-01270	2009	218-24	1617	229-0192-20	2035	260-2	1104
172-003-9-001	2041	177-006-9-002	2023	200-015	2016	203-5-5080-53660	2009	218-25	1617	229-0204-4	2016	260-10-006	2035
172-003-9-001A	2041	177-007-9-001	2023	200-016	1617	203-5-5090-53664	2009	218-26	2030	229-0204-6	2016	260-10-016	2023
172-006-9-001	2017	177-012-9-001	2023	200-052	2023	203-5-5100-53440	2009	220-001001	1617	229-0204-4(VHF)	2016	260-10-020	2009
172-018-9-001	2025	177-018-9-001	2023	210-053	2005	203-5-5211-57069	2016	220-001002	1617	229-0204-23	2016	260-10-021	2009
172-014-9-001	2020	177-019-9-001	2023	200-055	2016	203-5-5231-57079	2016	220-001011	2016	229-0210-14	2016	260-10-023</	

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DEVICE	27-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
26007412	1617	260P11303	1617	260P36003(,25A628A-E)	2023	264P18202	1184	276-1152	1152	276-2043(R12043)	2043	296V003H02	1123
26007590	2020	260P11403	2023	264P18203	2023	264P18208	564	276-1161	1161	276-2048	2020	296V003H05	1123
26008013	2014	260P11503	2009	260P36501	2054	264P19403	563	276-1169	1163	276-2053	2009	296V003H06	1123
26008201	2020	260P11603	2009	260P37103	2020	264P14701	1114	276-1171	1171	276-2055	2053	296V003H07	1123
26008660	2030	260P11703	2009	260P41804	2069	264P17409	563	276-1173	1173	276-2057	2009	296V003H09	1123
260D08701	2030	260P11505	2009	260P41604(,25C2274-E)	2009	264P19303	565	276-1180	1180	276-2058	2058	296V002M01	1123
260D08801	1617	260P12001	2009	260P41905	2009	264P19303	565	276-1181	1181	276-2059	2009	296V006H02	1123
260D09001	1617	260P12002	2009	260P41905(,EQA02-05CDB)	2009	264P19306	563	276-1185	1185	276-2062	2062	296V006H03	1104
260D09301	2041	260P12401	2030	260P41905(,25C2724-E)	2030	264P19306	563	276-1251	1251	276-2068	2068	296V006H07	1104
260D09314	1617	260P12701	2020	260P41905(,25C2724-E)	2009	264P19306	563	276-1252	1252	276-2072	2072	296V007H02	1123
260D09612	2030	260P13604	2009	260P42706	2020	264P21109	563	276-1263	1263	276-2074	2074	296V012H01	1123
260D10641	1617	260P13701	2009	260P79493	2014	264P22109	563	276-1263	2009	276-2081	2401	296V015H01	1123
260D13701	2016	260P13702	2009	260P70501	2016	264P22102(,MZ312A)	561	276-1264	1604	276-2081	2411	296V015H03	1123
260D13702	1617	260P14101	2009	260P70502	2009	264P22102(,MZ312A)	561	276-1267	1617	276-2083	2413	296V017H03	563
260D15901	2009	260P14102	1617	260P141103	1617	264P23101	1104	276-1265	1705	276-2087	2417	296V018H01	563
260D15902	2009	260P14103	1617	260Z00109	2016	264P23101(,TVR-1G)	1104	276-1265	1711	276-2449	2449	296V019H01	563
260P0770	2009	260P14104	2030	260Z00209	2016	264P23101(,TVR-1G)	1104	276-1265	1712	276-2466	2466	296V019H04	563
260P02903	2009	260P14202	2020	260Z00309	2016	264P28501	1104	276-1265	1715	276-2520	2520	296V020B01	1122
260P02903A	2009	260P15201	2023	260Z00401	2009	264P28501(,S5500-D)	1104	276-1265	1718	276-2521	2521	296V020B02	1104
260P02908	2009	260P15202	2023	260Z00402	1617	264P33002	1175	276-1265	1721	281	1617	296V024B01	1123
260P03201	2016	260P15203	2023	263P06602	2444	264P33002	1175	276-1273	1723	281(SEARCH)	1164	296V024B02	1122
260P03201A	2016	260P15701	2009	264-701508	1114	264Z00201	1104	276-1273	1722	295-1103	1122	297L004H01	1617
260P04001	2009	260P16101	2016	264D00101	1122	264Z00701	1123	276-1273	1731	296V010H09	2016	297L006H02	1617
260P04002	2009	260P16301	2016	264D00209	1122	265-1	1617	276-1274	1740	296V010H09	1114	297L007C02	1617
260P04003	2009	260P16302	2016	264D00305	1104	265D00702	1122	276-1274	1770	291-04	1104	297L007H01	1617
260P04004	2009	260P16304	2009	264D00507	561	265Z00101	1122	276-1274	1771	291-20	1104	297L007H02	1617
260P04502	2009	260P16502	2023	264D00612	1123	266-1	1122	276-1274	1772	292-10	1104	297L007H03	1617
260P04503	2009	260P16503	2023	264D00701	1123	266-1F	1122	276-1274	1778	294	2023	297L007H03/C03	2009
260P04505	2009	260P16504	2023	264D00801	1123	266P00101(XSTR)	2009	276-1274	1784	294-42-9	1123	297L008C02	2030
260P05402	2016	260P16603	2023	264D00901	1123	269M01201	1122	276-1274	1784	294-92-2	2009	297L008H01	2030
260P05402A	2016	260P17002	2030	264D0701	1133	276-007	907	276-1274	1784	295-01	1122	297L010C01	2023
260P05801	2016	260P17101	2009	264D01001	1123	276-018	018	276-1274	1787	295-03	1104	297L012C01	2023
260P05901	2016	260P17102	2009	264D01172	1104	276-021	021	276-1274	1796	295-1	1122	297L013H01	1617
260P05901A	2016	260P17103	2009	264P0080	1123	276-022	022	276-1274	1797	295-03-1	1122	297L013H02	2023
260P06901	2016	260P17104	1617	264P00901	1123	276-025	025	276-1274	1801	295V011H01	1104	297V019B04	563
260P06902	2016	260P17105	2009	264P00601	1104	276-026	026	276-1274	1802	295L001M01	1104	297V027C01	1104
260P06903	2016	260P17106	2009	264P00602	1114	276-030	030	276-1274	1805	295L001M02	1104	297V049H01	1617
260P06904	2009	260P17201	2016	264P00801	1123	276-033	033	276-1274	1800	295L002H01	1104	297V049H03	1617
260P07001	2009	260P17501	2009	264P01011	1104	276-035	035	276-1274	1822	295L003M01	1104	297V049H04	1617
260P07002	2009	260P17502	2009	264P01012	1104	276-036	036	276-2009	2009	295V002H01	1104	297V049H05	1617
260P07003	2016	260P17503	2009	264P01301	1123	276-036	036	276-2009/R52004	2009	295V005H01	1104	297V049H06	2030
260P07001	2009	260P17601	2016	264P01205	1123	276-037	037	276-2011	2011	295V005H02	1123	297V050H01	1101
260P07002	2009	260P17602	2016	264P01306	1123	276-038	038	276-2010/R52010	2009	295V006H01	1104	297V050H02	1101
260P07003	2009	260P17603	2016	264P01350	1123	276-041	041	276-2011	2011	295V006H02	1154	297V050H03	1617
260P07004	2009	260P17603(,25C763C)	2016	264P02001	1104	276-052	052	276-2011/R52011	2011	295V006H03	1104	297V050H04	1617
260P07704	2009	260P17701	2009	264P02402	1104	276-065	065	276-2013	1617	295V006H05	1104	297V059H03	1617
260P07705	2009	260P17702	2016	264P02501	565	276-066	066A	276-2013/R52013	1617	295V006H07	1104	297V061C01	2041
260P07707	2009	260P17703	2016	264P02503	562	276-066A	066A	276-2014	2009	295V006H09	1104	297V061C01A	2041
260P07901	2016	260P17704	2009	264P03001	1104	276-068	068	276-2014/R52014	2009	295V007H02	1104	297V061C02	2041
260P08001	2016	260P19101	1617	264P03301	561	276-069	069	276-2015	2016	295V008H01	1104	297V061C02A	2041
260P08201	2023	260P19102	2055	264P03303	563	276-075	075	276-2015/R52015	2015	295V012H01	1104	297V061C03	1617
260P08401	2016	260P19501	1617	264P03607	1104	276-081	081	276-2016	2016	295V013H02	1104	297V061C04	1617
260P08601	2009	260P19503	2016	264P03701	1104	276-116	116	276-2016/R52016	2016	295V013H03	1104	297V061C05	2030
260P08601A	2009	260P21102	2017	264P03703	1114	276-124	124	276-2017	2017	295V012H05	1104	297V061C06	1617
260P08901	2055	260P21308	2017	264P03902	1123	276-134	134	276-2017/R52017	2017	295V014H01	1104	297V061C07	1617
260P09201	2016	260P21608	2055	264P04003	564	276-142	142	276-2019	2020	295V014H04	1104	297V061H01	1617
260P09501	2055	260P22001	2035	264P04201	1104	276-143	143	276-2019/R52019	2020	295V014H7	1104	297V061H02	1617
260P09508	2055	260P22002	2035	264P04303	1114	276-145	145	276-2020	2020	295V015H02	1104	297V061H03	1617
260P09701	2055	260P24008	2041	264P04402	1104	276-561	561	276-2022	2023	295V016H01	1104	297V062C06	2030
260P09902	2009	260P24308	2055	264P04901	1122	276-562	562	276-2022/R52022	2023	295V017H01	1104	297V070H49	2016
260P10401	2009	260P24901	2016	264P04901(,152075A)	1122	276-563	563	276-2023	2023	295V020H01	1104	297V070C01	2016
260P10601	2030	260P25504	2023	264P04901(,152427)	1122	276-564	564	276-2023/R52023	2023	295V020H01	1104	297V072C03	2016
260P10601	2016	260P25504(,25A950Y)	2023	264P04902	1122	276-565	565	276-2024	2023	295V023H01	1104	297V072C04	2016
260P16101	2016	260P25601	2023	264P04903	1122	276-569	569	276-2024/R52024	2023	295V027C01	1104	297V072C05	2030
260P16101	2016	260P25601(,25A1115-E)	2023	264P04904	1122	276-570	570	276-2025	2027	295V027C01-1	1104	297V072C06	1617
260P16101	2016	260P25601(,25A1115-E)	2023	264P04905	1122	276-703	703	276-2025/R52025	2027	295V028C01	1104	297V073C03	2023
260P16101	2016	260P25601(,25A1115-F)	2023	264P04906	1104</								

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
297V084C01	2023	324-0085-5	1617	349-1	2030	361K7287(RGF10JG2E)	1104	394-3135A	2041	417-212	2041	430-87	1617
297V084C02	1617	324-0011	2030	349-2	2030		1104	396-7178P1	2016	417-212A	2041	430-12061	2016
297V084C03	1617	324-0013	2030	350D7216	2009	364-1	2023	398-13223-1	1802	417-215	2016	430-22215	1617
299D09001	1122	325-0025-377	1123	350D7216(.25C945-P)	2009	364-1(SYLVANIA)	2023	398-13224-1	1802	417-215	2041	430-23221	1617
299D09000	1122	325-0028-84	2016		2009	364-2001	1123	398-13225-1	1801	417-217	1617	430-23223	2030
299D09001(,152076A)	1122	325-0028-86	1123	350D7217	2009	364-10043	2035	398-13632-1	1802	417-218	1617	430-23843	2041
	1122	325-0028-87	1123	350D7217(.25C945-Q)	2009	365-1	1617	398B	1143	417-219	2009	430-23844	2030
299D09005	1122	325-0028-89	1104		2009	366-1	2009	398Z	1114	417-226-1	1617	430-25762	2035
300R1B	1143	325-0031-303	1617	350D7217(.25C945-T)	2009	366-1(SYLVANIA)	2016	399-5	2020	417-228	1617	430-25763	2016
300R2B	1143	325-0031-304	1617		2009	366-2	2009	399A	1141	417-229	1617	430-25764	2016
300R2B	1144	325-0031-305	1617	350D7217(.25C945-TQ)	2009	366-2(SYLVANIA)	2016	399B	1143	417-231	2035	430-25765	2016
301-1	1101	325-0031-310	1617		2009	369-2	1104	399C	1143	417-233	1617	430-25766	1617
301-374-4	1801	325-0031-335	1123	350K3516	2023	369-3	1104	399D	1142	417-235	2023	430-25767	2016
301-376-6	2030	325-0031-338	1104	350K3516(.25A733A)	2023	369PHD	065	400A	1123	417-237	2030	430-25768	1617
303-1	2023	325-0034-562	1123		2023	370-1	2055	400C-11958	1104	417-237-13163	2030	433-1	2030
306-1	1617	325-0042-311	1171	350K3516(.25A733P)	2023	374-1	2035	400D	1123	417-241	2035	433	2009
306-8	2009	325-0042-351	1617		2023	378-1	2035	400-009/07	2041	417-243	2016	433(ZENITH)	1617
307-095-9-002	2411	325-0047-517	1104	350K3517	2023	378-44	2041	403-1	1123	417-244	1617	433-1(SYLVANIA)	2009
307-107-9-003	705	325-0054-312	1104	350K3517(.25A733A)	2023	378-44A	2041	404-1(SYL)	2009	417-246	2035	433CL	1617
307-113-9-001	2411	325-0076-306	1617		2023	380-2	2055	404-2	2016	417-247	2030	434	2016
307-143-9-004	2035	325-0076-307	1617	350K3517(.25A733AQ)	2023	380H61	1104	404-2(SYLVANIA)	1617	417-250	2030	434-1	2023
307-152-9-012	2411	325-0076-208	1617		2023	383(IC)	703	405-2	2050	417-252	2035	434-1	2023
307A	1104	325-0076-215	1104	350K3517(.25A733Q)	2023	384A	1104	417-237	2020	417-253	2035	434-1	2023
307B	1104	325-0081-100	1617		2023	394B	1104	412-1A5	1617	417-257	2030	435-1	2023
307C	1104	325-0081-101	1617	350K3517	2023	384C	1104	414	2009	417-258	2016	435-1	2009
307D	1104	325-0081-110	1104	351-3031	1122	384D	1104	417-7	1617	417-262	2016	435-2	2009
307F	1104	325-0135-8	1104	352-0197-090	1617	384F	1104	417-19	2016	417-283	2009	435-2	2009
307H	1104	325-0141-23	1104	352-0677-040	2041	384H	1104	417-49	2030	417-286	2041	435-21026-0A	1801
307K	1104	325-0500-12	2016	352-0677-051	2041	384K	1114	417-59	2030	417-298	2020	435-21028-0A	1802
307M	1104	325-0500-13	2016	353(IC)	1715	384M	1114	417-67	2009	417-801	2009	435-21029-0A	1822
309-324-6-6	1123	325-0574-30	1617	353-9203-001	2020	384P	1114	417-69	1617	417-821	2009	435-40012	1104
309-327-6-3	1114	325-0574-31	1617	353-9301-001	2020	384S	1114	417-77	2009	417-822	2009	442-1	2009
309-327-9-0	1104	325-0670-16	1104	353-9304-001	2023	384V	1114	417-84	2016	417-852	2016	442-22	2009
309-327-9-6	1123	325-1370-19	1617	353-9305-001	1617	384Z	1114	417-85	2016	417-865	2023	442-34	1726
309-327-9-25	1617	325-1370-20	1617	353-9306-002	1617	385A	1104	417-87	2030	417-874	1604	442-37	1726
309-327-9-27	1104	325-1376-60	1123	353-9306-003	1617	385B	1104	417-88	2030	417-875	2009	442-602	1711
309-327-9-32	1104	325-1378-18	2016	353-9310-001	1617	385C	1104	417-89	2030	417-923	2055	442-612	1731
310	1104	325-1378-19	2016	353-9314-001	1617	385D	1104	417-91	2016	417-937	2009	442-663	1771
310-4	1104	325-1441-10	1104	353-9315-001	1617	385F	1104	417-92	1617	419-2	2058	442-674	1771
310-187	1617	325-1441-11	1104	353-9318-001	2016	385H	1104	417-93	1617	420-1	2023	442-688	1721
31124	563	325-1446-26	2030	353-9318-002	2016	385K	1104	417-94	2009	420-2005-173	1114	442-704	1770
314-6007-7	1617	325-1446-27	2030	353-9319-001	1617	385KW	1104	417-101	2041	420-2104-570	1114	442-713	705
314-6007-2	1617	325-1446-29	1104	353-9319-002	1617	385M	1104	417-105	2016	421-1	2020	442-713	1801
314-6007-5	1617	325-1515-24	1617	353-9502-001	2020	385P	1114	417-106	2016	421-2	2020	442-713	1802
314-6010-2	2009	325-1513-30	1617	354-9001-001	1123	385S	1114	417-107	2050	421-3	2020	443-7-16052	1802
315	1104	325-1513-46	2030	354-9101-002	1123	385Z	1114	417-108	1617	421-4	2027	443-18	1802
315-6CGI	1104	325-1771-15	1617	354-9101-006	1104	386	1731	417-109	1617	421-5	2020	443-36	1805
317T	1778	325-1771-16	2016	354-9102-001	1104	386-1	2023	417-110	1617	421-4027	1104	443-45	1822
320A	1104	325-4610-100	1114	354-9110-001	1104	386-1(SYLVANIA)	2023	417-114	1617	421-7443	1104	443-603	2411
320B	1104	330GI	1122	355D6	2016	386-1AY	1104	417-116	2023	421-7443A	1104	443-607	2413
320C	1104	331-1	2020	355D8	2016	386-1CY	1104	417-118	2009	421-7444	1617	443-627	1802
320D	1104	335-1	2055	355D9	1617	386-1FY	1104	417-124	2016	421-8111	1617	443-703	2401
320F	1104	339	1712	359A	1104	386-7118P1	2016	417-125	2016	421-9444	1617	443-794	2500
320H	1104	339-529-001	1123	359B	1104	386-7178P1	1617	417-126	1617	421-9670	1617	443-795	2521
320K	1104	342-1	2030	359C	1104	386-7183P1	2041	417-127	1617	421-9683	2016	443-926	2412
320M	1104	344-1	2030	359D	1104	386-7183P1A	2041	417-128	2030	421-9840	1617	445-0303-001	1080
320P	1114	344-6000-2	1617	359F	1104	386-7185P1	1617	417-129	1617	421-9865	1104	445-0303-002	1080
320S	1114	344-6000-3	2016	359H	1104	386-7188P1	2016	417-132	2023	422-0738	1617	447	2009
320Z	1114	344-6000-3A	2016	359K	1104	386-7243-P001	2016	417-133	2016	422-0961	2041	447(ZENITH)	1617
322-0147	1104	344-6090-4	1617	359M	1104	386AK	1104	417-134	2009	422-1233	2030	447-1	2009
324(IC)	1711	344-6090-5	1617	359P	1114	386AW	1104	417-135	2009	422-1234	1617	448A882	2030
324-0014	1123	344-6090-3A	1617	359S	1114	386AX	1104	417-137	2030	422-1262	1104	450-1	2030
324-0015	1101	344-6091-1	2030	359V	1114	386AY	1104	417-139A	2041	422-1401	2016	450-2	2016
324-0015	1123	344-6091-2	2030	359Z	1114	386BW	1104	417-140	2025	422-1402	2016	451-3	2023
324-0017	1123	344-6092-2	1617	360-1	2030	386BY	1104	417-153	2023	422-1404	2030	454-A2534-10	1104
324-0049	1123	344-6005-1	1617	360-32	1122	386CX	1104	417-153-13431	2023	422-1407	1617	454-A2534-10	1104
324-0057	1123	344-6005-2	2009	360K1010	1122	386CX	1104	417-154	1617	422-1408	1114	454A104	2030
324-0093(PHILCO)	1123	344-6005-5	1617	360K1015	1122	386CY	1104	417-155	2030	422-1866	1104	456-2	2009
324-019	2030	344-6005-6	1122	360K1027	1122	386DW	1104	417-167	2035	422-2158	2030	460-1	2023
324-0105	1123	344-6006-6	1123	360K3039	563	386DY	1104	417-168	2023	422-2532	2016	464-1	2023
324-0107	1123	344-6011-1	2030	360K3099	680	386FW	1104	417-169	2030	422-2533	1617	464-106-	

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475-018	1142	526-376	1104	561-2554-578	1122	561-2554-610	1122	561-2554-620	1122	561-2554-630	1122	561-2554-640	1122
475-1	2023	527-1	2014	561-2554-610	1122	561-2554-620	1122	561-2554-630	1122	561-2554-640	1122	561-2554-650	1122
483-1	2023	529-1	2038	561-2554-620	1122	561-2554-630	1122	561-2554-640	1122	561-2554-650	1122	561-2554-660	1122
499-3 (SEARS)	2016	530	1104	561-2554-620	1122	561-2554-630	1122	561-2554-640	1122	561-2554-650	1122	561-2554-660	1122
491-2 (SEARS)	2016	530-882-3	1114	561-2554-630	1122	561-2554-640	1122	561-2554-650	1122	561-2554-660	1122	561-2554-670	1122
491A948	2030	530-882-4	1114	561-2554-640	1122	561-2554-650	1122	561-2554-660	1122	561-2554-670	1122	561-2554-680	1122
499	2009	530-886-1	1104	561-2554-650	1122	561-2554-660	1122	561-2554-670	1122	561-2554-680	1122	561-2554-690	1122
499-1	2009	530-888-1	1104	561-2554-660	1122	561-2554-670	1122	561-2554-680	1122	561-2554-690	1122	561-2554-700	1122
508-1	2009	530-888-3	1114	561-2554-670	1122	561-2554-680	1122	561-2554-690	1122	561-2554-700	1122	561-2554-710	1122
508-4	2009	530-888-1002	1114	561-2554-680	1122	561-2554-690	1122	561-2554-700	1122	561-2554-710	1122	561-2554-720	1122
508B10	1114	530-088-1003	1114	561-2554-690	1122	561-2554-700	1122	561-2554-710	1122	561-2554-720	1122	561-2554-730	1122
500110	1114	530-088-1004	1114	561-2554-700	1122	561-2554-710	1122	561-2554-720	1122	561-2554-730	1122	561-2554-740	1122
501-363-2	1143	530-094-1	1104	561-2554-710	1122	561-2554-720	1122	561-2554-730	1122	561-2554-740	1122	561-2554-750	1122
5015601M	2016	530-095-1	1104	561-2554-720	1122	561-2554-730	1122	561-2554-740	1122	561-2554-750	1122	561-2554-760	1122
502	2009	530-098-1	1104	561-2554-730	1122	561-2554-740	1122	561-2554-750	1122	561-2554-760	1122	561-2554-770	1122
503-T10192	1114	530-099-1	1104	561-2554-740	1122	561-2554-750	1122	561-2554-760	1122	561-2554-770	1122	561-2554-780	1122
503-T21271	1123	530-099-3	1104	561-2554-750	1122	561-2554-760	1122	561-2554-770	1122	561-2554-780	1122	561-2554-790	1122
503-T21472	1123	530-099-4	1104	561-2554-760	1122	561-2554-770	1122	561-2554-780	1122	561-2554-790	1122	561-2554-800	1122
509	2009	530-106-1	1104	561-2557-050	563	561-5040-821	1144	561-5040-830	1104	561-5040-840	1104	561-5040-850	1104
509-1	2055	530-106-1001	1114	561-2557-092	561	561-5040-830	1104	561-5040-840	1104	561-5040-850	1104	561-5040-860	1104
510A-90	1123	530-109-1	1104	561-2557-141	563	561-5040-830	1104	561-5040-840	1104	561-5040-850	1104	561-5040-860	1104
510A90	1123	530-111-1	1104	561-2550-501	563	561-5047-210	1143	561-5047-210	1143	561-5047-210	1143	561-5047-210	1143
510AD44	1123	530-111-1001	1114	561-2560-530	561	561-5150-400	1067	561-5150-400	1067	561-5150-400	1067	561-5150-400	1067
510AN60	1123	530-113-1	1104	561-2560-531	561	561-5150-410	1067	561-5150-410	1067	561-5150-410	1067	561-5150-410	1067
510B34	1123	530-120-1	1104	561-2560-757	562	561-5154-610	1067	561-5154-610	1067	561-5154-610	1067	561-5154-610	1067
510LN60	1123	530-136-T	1104	561-2560-816	561	561-6160-550	1171	561-6160-124	2009	561-6160-124	2009	561-6160-124	2009
510L534	1123	532-341	1104	561-2560-820	561	561-6160-680	1067	561-6160-125	2023	561-6160-125	2023	561-6160-125	2023
511-515	1617	532-341A	1104	561-2560-823	561	561-6161-090	1143	561-6160-126	2023	561-6160-126	2023	561-6160-126	2023
511-519	1617	536-1	2016	561-2560-825	561	561-6162-247	1114	561-6160-237	2030	561-6160-237	2030	561-6160-237	2030
511-898	1104	536-2	2016	561-2560-914	1122	561-6162-248	1067	561-6160-249	2023	561-6160-249	2023	561-6160-249	2023
511X345	1123	536DP	2050	561-2560-915	1123	561-6162-252	1104	561-6160-275	2016	561-6160-275	2016	561-6160-275	2016
512R2	1617	536FS	1617	561-2560-935	567	561-6164-025	1104	561-6160-346	2023	561-6160-346	2023	561-6160-346	2023
513-891	1101	536FU	1617	561-2565-963	563	561-6164-083	1104	561-6160-356	2023	561-6160-356	2023	561-6160-356	2023
515	1617	536GT	2016	561-2561-313	562	561-6164-095	1104	561-6160-367	2027	561-6160-367	2027	561-6160-367	2027
515-299	1104	536J2F	1104	561-2561-786	561	561-6164-275	1104	561-6160-382	2027	561-6160-382	2027	561-6160-382	2027
515-521	2016	537FS	2016	561-2583-606	1122	561-6164-280	1104	561-6160-400	2009	561-6160-400	2009	561-6160-400	2009
516	1617	537J2F	1104	561-2583-608	1122	561-6166-010	1104	561-6160-401	2009	561-6160-401	2009	561-6160-401	2009
517-0021	1104	538J2F	1104	561-2590-090	1122	561-6561-860	1104	561-6160-402	2023	561-6160-402	2023	561-6160-402	2023
517-0025	1104	539J2F	1104	561-2591-480	1122	561-6800-335	1617	561-6160-403	2023	561-6160-403	2023	561-6160-403	2023
517-0031	1104	540-008	1144	561-2591-540	1122	561-6800-336	1617	561-6160-424	2009	561-6160-424	2009	561-6160-424	2009
517-0033	1104	540-010	1104	561-2594-480	1122	561-6800-337	2016	561-6160-495	2042	561-6160-495	2042	561-6160-495	2042
517-518	1417	540-014	1114	561-2597-321	561	561-6800-472	2030	561-6160-946	2030	561-6160-946	2030	561-6160-946	2030
518-499	1104	540-015	1143	561-2597-350	561	561-6800-482	1617	561-6160-947	2035	561-6160-947	2035	561-6160-947	2035
519-1	2009	540J2F	1104	561-2597-351	561	561-6800-484	1617	561-6160-948	2020	561-6160-948	2020	561-6160-948	2020
519ES067M	2009	544-2003-005	1772	561-2597-383	562	561-6800-495	1617	561-6160-974	2030	561-6160-974	2030	561-6160-974	2030
519ES068M	2009	544-2006-011	703	561-2597-420	563	561-6800-497	2030	561-6160-975	2030	561-6160-975	2030	561-6160-975	2030
521-081	1123	544-2009-555	1723	561-2597-421	563	561-6800-341	1617	561-6160-976	2023	561-6160-976	2023	561-6160-976	2023
521-094	1104	544-2020-002	1711	561-2597-440	564	561-6800-656	2030	561-6160-977	2023	561-6160-977	2023	561-6160-977	2023
521-145	1123	544-3001-103	2401	561-2597-441	564	561-6800-657	2030	561-6160-978	2035	561-6160-978	2035	561-6160-978	2035
521-9189	026	544-3001-117	2417	561-2598-250	565	561-6800-696	1617	561-6160-979	2041	561-6160-979	2041	561-6160-979	2041
521-9246	041	544-3901-140	2449	561-2600-200	162	561-6800-697	2030	561-6160-980	2055	561-6160-980	2055	561-6160-980	2055
521-9249	041	546	2016	561-2602-300	565	561-6800-706	2034	561-6160-981	2041	561-6160-981	2041	561-6160-981	2041
521-9256	041	547J2F	1114	561-2602-310	562	561-6800-718	2016	561-6160-982	2030	561-6160-982	2030	561-6160-982	2030
522	2009	549-2	2023	561-2707-770	1122	561-6800-914	2016	561-6160-983	1617	561-6160-983	1617	561-6160-983	1617
522(ZENITH)	2016	551	2016	561-4800-440	1000	561-6800-416	2016	561-6160-984	1617	561-6160-984	1617	561-6160-984	1617
522-726	1104	551M	2058	561-4800-442	1000	561-6800-929	1617	561-6160-985	2016	561-6160-985	2016	561-6160-985	2016
523-0001-002	1104	555	1723	561-4800-443	1000	561-6800-930	1617	561-6160-986	2030	561-6160-986	2030	561-6160-986	2030
523-0001-003	1104	555-3	2030	561-4800-448	1000	561-6801-420	0800	561-6160-987	2020	561-6160-987	2020	561-6160-987	2020
523-0006-002	1122	555D	1723	561-5004-412	1104	561-6801-592	2016	561-6160-988	2016	561-6160-988	2016	561-6160-988	2016
523-0007-001	1122	556	1728	561-5005-360	1104	561-6801-613	2030	561-6160-989	2035	561-6160-989	2035	561-6160-989	2035
523-006-002	1123	556D	1728	561-5005-380	1104	561-6801-711	2030	561-6160-990	2009	561-6160-990	2009	561-6160-990	2009
523-0013-002	1104	559-1	2023	561-5005-390	1104	561-6801-910	2030	561-6160-991	2016	561-6160-991	2016	561-6160-991	2016
523-0013-201	1114	560-2	1617	561-5005-400	1104	561-6802-218	1617	561-6160-992	2022	561-6160-992	2022	561-6160-992	2022
523-0017-001	1114	561-0884-043	007	561-5005-470	1104	561-6802-221	1617	561-6160-993	2022	561-6160-993	2022	561-6160-993	2022
523-0501-002	1102	561-2511-104	1102	561-5005-490	1122	561-6802-223	1617	561-6160-994	2017	561-6160-994	2017	561-6160-994	2017
523-1000-001	1104	561-2511-120	1123	561-5006-460	1104	561-6802-270	2030	562-1	1123	562-1	1123	562-1	1123
523-1000-067	1123	561-2511-190	1123	561-5006-470	1104	561-6802-369	1104	565-072	2009	565-072	2009	565-072	2009
523-1000-295	1123	561-2511-210	1123	561-5008-810	1104	561-6802-484	1617	565-074	1617	565-074	1617	565-074	1617
523-1000-881	1104	561-2511-240	1123	561-5010-820	1104	561-6802-501	1617	565-1	2030	56			

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610-076	1617	637	2055	644-4230	2223	690V08H48	2016	690T	1617	753-2000-711	2009	779013	2016
610-076-1	1617	638	1617	644-4148	2016	690V08H49	2016	6440	1617	753-2000-725	1617	780W18	1617
610-076-2	1617	639-T	2000	644-4153	2016	690V08H50	1617	6441	1617	753-2000-870	1617	783828	2016
610-077	1617	639	2009	644-1	2023	690V08H51	1617	699	1617	753-2000-871	1617	784048	2016
610-077-1	1617	639(ZENITH)	1617	647-8045	2025	690V08H54	2016	700-04	2025	753-2001-170	2025	781Y1L	1617
610-077-2	1617	639CL	2030	667-009A	2035	690V08H86	2016	700-110	2030	753-2100-001	1617	786	2016
610-077-3	1617	640-1(SYLVANIA)	2020	669	2023	690V08H99	1617	700-113	2041	753-2100-008	1617	7878LU	2016
610-077-4	1617	642-028	1123	675-158	1123	690V08H91	1104	700-133	2023	753-3000-535	2058	791	1617
610-077-5	1617	642-098	1123	676-1	2039	690V092H52	1617	700-134	2009	753-4000-010	2016	791-238	1104
610-078	1617	642-102	1123	680-1	2016	690V092H54	1617	700-135	2009	753-4000-011	1617	791-292	1123
610-078-1	1617	642-119	1123	684-452422-1	1104	690V092H-1	1617	700-137	1104	753-4000-024	2025	792-414	1123
610C	1104	642-126	1123	684-0012	2032	690V092H4	1617	700-134	1009	753-4000-101	1617	800-002-00	1123
612	1104	642-132	1123	684-0112	2032	690V092H85	1123	700-135	2016	753-4000-337	1617	800-005-00	1123
612-1	2017	642-174	1617	684-0130	2030	690V092H96	1617	700-136	2009	753-4000-448	2016	800-064-00	563
612-16	2009	642-194	1123	684-0242	2041	690V092H97	1617	700-137	862	753-4000-929	2016	800-095-00	1123
612-16(ZENITH)	2016	642-216	1171	686-143	2041	690V094H17	2041	700-325	2009	753-4001-932	2020	800-006-00	1104
612-16A	2016	642-219	1104	686-143A	2041	690V094H21	1617	700A858-285	1104	753-4004-248	2023	800-008-00	1101
612C	1122	642-221	1123	688-1	1047	690V094H35	1104	700A858-286	1104	753-5751-359	2009	800-010-00	1114
613	2009	642-229	2016	690C092H88	1067	690V097H62	1617	700A858-318	2009	753-5851-359	2009	800-013-00	1104
613(ZENITH)	2016	642-230	2016	690V02H69	2016	690V098H48	1617	700A850-319	2009	753-6000-002	2009	800-014-00	1104
613-72	2016	642-242	1617	690V09H36	2009	690V098H49	1617	700A850-322	1122	753-6000-019	2025	800-014-01	1123
614	1104	642-244	1617	690V012H40	2016	690V098H50	1617	700A858-328	2016	753-6000-230	2016	800-014-00	1104
614(ZENITH)	2016	642-254	2016	690V010H41	2016	690V098H52	1123	700-556-141	2009	753-8300-386	2009	800-017-00	1104
614-1	2020	642-255	564	690V03H28	2016	690V098H53	1104	700-1	2000	753-8310-470	2000	800-018-00	1123
614-2	2009	642-260	2016	690V03H48	2016	690V099H79	1617	700-2	2000	753-9000-619	2023	800-018-00	1123
614-3	1617	642-268	2016	690V028H69	2016	690V0103H27	1617	703B	2030	753-9000-839	2009	800-020-00	1123
614-12	2016	642-269	2016	690V028H89	2016	690V68H32	1123	705-600007	1000	753-9000-922	2009	800-021-00	1122
614-118	1122	642-270	2016	690V031H33	1104	690V73H60	1123	707	2020	753-9001-674	2016	800-022-00	1123
614C	1122	642-274	2016	690V034H32	1123	690V102H40	1122	710	1104	753-9001-675	2009	800-023-00	563
615-1	2016	642-275	1122	690V034H74	1123	690V102H71	1617	715EN	1617	753-9010-235	2020	800-024-00	1104
615	1104	642-279	1123	690V037H91	1123	690V102H22	2016	715FB	2016	753-9010-784	2023	800-029-00	1104
615C	1122	642-281	1122	690V037H92	1101	690V103H24	2016	723	1740	753-9010-785	2023	800-035-00	563
617-10	1617	642-284	2000	690V038H72	1124	690V103H25	2016	720C	1740	753-1000-080	1122	800-036-00	1123
617-15	1123	642-319	2016	690V038H23	1124	690V103H26	2016	720CJ	1740	753-2000-001	1122	800-037-00	1104
617-17	1123	642A-076-101	2016	690V038H32	1104	690V103H37	2016	720J	2000	753-2000-002	1104	800-038-00	1104
617-46	1104	644-405E	2009	690V039H54	1101	690V103H28	2016	733W00039	1800	753-2000-005	1104	800-039-00	1123
617-53	1104	647-1	2055	690V040H63	1123	690V103H29	2009	733W00042	1801	753-2000-009	1123	800-040-00	1122
617-62	1104	649-1	2055	690V041H08	1104	690V103H30	2030	733W00064	1802	753-2000-011	1122	800-041-00	1104
617-63	1617	650	1123	690V047H61	1123	690V103H31	1617	733W00211	2411	753-2009-150	1122	800-042-00	1122
617-64	1617	650-110	1104	690V047H97	1617	690V103H32	2009	734LU	2035	753-2509-150	1122	800-043-00	1114
617-65	2016	651	565	690V049H81	2016	690V103H33	1617	737	2009	753-2720-011	1122	800-045-00	1247
617-66	1104	651-001C	1123	690V052H30	1123	690V103H35	565	737(ZENITH)	1617	753-4000-088	1123	800-046-00	1104
617-67	1617	651-022A	1123	690V052H48	1104	690V103H54	1123	729H1	1617	753-4000-188	1123	800-047-00	1104
617-68	1617	651-033A	1123	690V052H17	1104	690V103H19	2009	740-8067-303	705	753-4000-470	1122	800-051-00	1114
617-71	1617	651C0	565	690V053H43	1122	690V103H22	2009	740-8067-305	705	753-5000-021	1104	800-051-00	1104
617-87	1617	651C1	565	690V060H58	2016	690V105H-25	2009	741	007	753-5750-283	1122	800-01400	1104
617-117	2020	651C2	565	690V060H59	2016	690V105H25	2009	741C	007	753-5750-284	1104	800-250-102	1617
617-156	1123	651C3	565	690V066H48	1123	690V105H27	2009	742	1123	753-5900-090	1123	800-362	2009-27
617-161	1617	651C4	565	690V067H09	1123	690V105H28	2058	744	2030	753-5900-473	1122	800-366	2020-27
617-162	1104	651C5	565	690V068H32	1123	690V105H29	2030	748	2009	753-9000-009	562	800-501-00	2109
617-163	1104	651C6	565	690V068H39	1104	690V105H31	1104	748(ZENITH)	1617	753-9033-473	1122	800-501-01	1617
618	1104	651C7	565	690V070H49	2016	690V105H32	562	750-141	1104	753-9033-090	562	800-501-02	1617
618C	1122	651C8	565	690V070H96	2016	690V105H44	1104	750A858-285	1104	754	1104	800-501-03	1617
619	1900	652-002A	1102	690V073H05	1123	690V105H44	2016	750A858-219	2009	767	2009	800-501-04	1617
619-2	1000	652-002A	1101	690V073H42	2030	690V105H30	2016	750A858-228	2016	767(ZENITH)	1617	800-501-11	1617
619-3	1000	652-005B	1104	690V075H68	2016	690V110H31	2016	750A858-448	2020	767CL	1617	800-501-22	1617
619-3(RCA)	1000	652-013A	1173	690V080H36	2016	690V110H32	2016	750C838-123	1617	770-045	2020	800-501-00	1617
620	1104	652-015B	1122	690V080H41	1617	690V110H33	2016	750C838-124	1617	772A	2016	800-509-00	2009
620-1	2023	652C7	561	690V080H47	1104	690V110H34	2030	750C838-125	1617	772B	2016	800-510-00	2041
620-2	2023	652C8	561	690V080H52	1104	690V110H36	2030	750D858-211	1114	772B1	2016	800-510-01	2041
620C	1122	654-1	2025	690V080H54	1114	690V110H38	1123	750D858-212	1617	772B2	2016	800-512-00	2020
621	1104	654-1(SYLVANIA)	2025	690V080H91	1104	690V110H39	2017	750D858-213	2016	772B3	2016	800-513-00	2020
622-1	2020	654-201B	561	690V081H02	2016	690V114H29	2016	750D858-215	1617	772B4	2016	800-514-00	1617
622-1(RCA)	2020	654-211A	561	690V081H40	1171	690V114H30	1617	750D858-216	1617	772B5	2016	800-515-00	2020
622C	1122	654C9	565	690V081H92	564	690V114H31	2016	750D858-214	1617	772B6	2016	800-517-00	1123
623(RCA)	2020	656-141	1104	690V082H40	1104	690V114H33	1617	750M63-149	1104	772C	2016	800-521-01	1417
623-1	2017	656-142	1123	690V083H89	1123	690V114H36	1104	751-2001-212	1104	772CC	2016	800-521-02	2020
624	1104	650-126	1617	690V084H62	1617	690V116H19	2016	751-4000-188	1123	772D	2016	800-521-03	2020
624(RCA)	2027	650-127	2016	690V084H94	2016	690V116H20	2016	751-6300-001	1104	772D1	2016	800-522-01	1617
624-0609	1104	650-128	2030	690V084H95	2016	690V116H21	1617	751-0101-047	1617	772DC	2016	800-522-02	1617
624-0610	1104	650-131	1617	690V084H96	2016	690V116H22	2025	753-0101-224	2017	772DG	2016	800-522-03	2020
624-0611	1123	650-134	1617	690V084H51	1617	690V116H23	2025	753-1300-401	2009	772E	2016	800-522-04	1617
624C	1122	650-143	2030	690V084H33	2016	690V116H24	2020	753-1375-100	2009	772EH	2016	800-523-01	2023
625-1	2109	650-228	1617	690V084H34	2023	690V116H25	565	753-1444-100	2016	772F	2016	800-523-02	2023
625-1(RCA)	2109	650-221	1617	690V084H37	2016	690V116H41	1104	753-1828-001	1617	772FH	2016	800-524-01	2041
626	1617	650-222	1617	690V086H88	1617	690V118H57	11						

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800-535-01	2035	863-776B	1122	903-58B	1122	903-486	1122	919-002440-1	1114	921-34	2016	921-163B	2017
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800-538-00	1617	866-6(BENDIX)	2041	903-65B	1123	903-508	1122	919-004326	1122	921-34B	2016	921-165	2017
800-544-00	1617	880-207-000	1104	903-68	1104	903-509	562	919-004799	1104	921-43B	1617	921-167	2017
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800-544-30	1617	880-250-109	1617	903-72B	1122	903-513	565	919-007394	1104	921-46A	1617	921-172B	2016
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2057B2-120	2016	2093A38-1	1123	2093A41-172	1122	2139-103-7006	2023	2169-218-1307	1104	2362-1(SYLVANIA)	2016	2510-104	1617
2057B2-121	1617	2093A38-4	1104	2093A41-173	1104	2139-103-7006	1104	2169-219-3106	1104	2381-17	2023	2510-105	1617
2057B2-122	1617	2093A38-5	1121	2093A41-180	1104	(,K5A704-O)	2023	2169-219-4207	1104	2382-17	2020	2522	1104
2057B2-123	1617	2093A38-10	1123	2093A41-181	1123	2139-103-9006	2009	2169-219-4208	1104	2396-17	564	2523	1104
2057B2-125	2016	2093A38-11	1122	2093A41-182	1104	2139-103-9307	2023	2169-219-5106					

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2634-1	2014	3028	2016	3534(RCA)	1617	3577	2004	3904	1705	4148(DIO)	1727	4684-172-3	1617
2634	2016	3029	2016	3537	2009	3577(RCA)	2009	3904	1817	4164	2506	4684-172-3	1714
2667	2021	3034	2030	3572(RCA)	2014	3577-1	2009	4001(IC)	2401	4184-2	2506	4684-182-3	2030
2702	1123	3034(RCA)	2030	3577-1	2036	3579	2016	4001-151	1114	4184C	2506	4684-182-3	1617
2703-389	1123	3044	2009	3529	1104	3579(RCA)	2016	4001-236	1123	4187	2009	4684-184-3	1714
2703-390	1104	3069	1104	3529A	1114	3581(RCA)	2023	4001BDC	2401	4167(AIRLINE)	2016	4684-186-3	1114
2704	1123	3069(ARVIN)	1104	3529B	1114	3583	1144	4001BDM	2401	4167(PENNCREST)	2016	4684-189-3	1114
2704-389	1123	3074A21	1104	3529C	1114	3584(RCA)	1617	4001BFC	2401	4167(SEARS)	2016	4684-199-3	1114
2704-389	1104	3107-204-90010	1617	3530	2016	3586-2	2016	4001BFM	2401	4168	2009	4684-201-3	1114
2762	2016	3107-204-90010	1617	3530(RCA)	2016	3588	1617	4001BPC	2401	4168(PENNCREST)	2016	4684-207-3	2016
2763	1104	3107-204-90020	1617	3530-1	2016	3589	1617	4001SEARS	1123	4168(SEARS)	2016	4684-208-3	2016
2764	1251	3107-204-90060	2016	3530-2	2016	3591	2030	4001	3009	4188(WARDS)	2016	4684-209-3	2016
2764-1	1251	3107-204-90100	2016	3532(RCA)	2009	3597	2023	4001SEARS	1123	4189	2009	4684-211-3	1714
2764-35	1251	3107-204-90120	2016	3532-1	2020	3597-1	2025	4001SEARS	1123	4189(PENNCREST)	2016	4684-212-3	2016
2764-FA-AT	1251	3111	1617	3535	2009	3597-2	2023	4001(E.F. JOHNSON)	2030	4189(SEARS)	2016	4684-212-3	2016
2764-FA-5-A3	1251	3113	1617	3535(RCA)	2016	3598(RCA)	2016	4006(SEARS)	2030	4169(WARDS)	2016	4684-231-3	1617
2764-FC1-A3	1251	3146-977	2041	3536	2009	3601	2030	4006(SEARS)	1123	4309(AIRLINE)	2016	4684-234-3	2020
2766	1104	3152-170	2041	3536-1	2009	3601(RCA)	2009	4007(SEARS)	1123	4310(AIRLINE)	2023	4684-244-3	2016
2774	565	3202-5H01	2030	3536-2	2009	3601-1	2009	4008(SEARS)	1123	4310(AIRLINE)	2023	4684-251-3	2016
2777	1104	3202-51-01	2030	3537	2009	3603-1	2009	4009(SEARS)	1123	4351 0012	1123	4684-257-3	1617
2779	1104	3217-1	2016	3537(RCA)	2016	3604(RCA)	2016	4011	1617	4351 6013	1123	4684-257-3	2016
2784	1104	3301(SEARS)	2016	3538	2009	3604-3	2009	4011(PENNCREST)	1123	4351 6021	1123	4701	2041
2786	1104	3303	2023	3538(RCA)	1617	3608(RCA)	2030	4011SEARS	1123	4354	1123	4701	1617
2787	1617	3322-4	1123	3539	2030	3608-1	2030	4011	2023	4354 0012	1104	4706	2016
2789	1123	3370	2016	3539(RCA)	2016	3608-2	2030	4011(IC)	2411	43600	2020	4709	2016
2794	1104	3377	1104	3539-307-001	2016	3608-2(J.C. PENNEY)	2016	4011SEARS	1123	4403	1104	4714	1617
2795A	562	3391	2016	3539-307-002	2016	3608-2(J.C. PENNEY)	2030	4011-PC	2411	4442	2023	4715	2041
2796	2009	3391(SEARS)	2016	3540(RCA)	2023	3608-2(J.C. PENNEY)	2030	4011A	2411	4442-366	2020	4715A	2041
2798	2023	3391A	2016	3540-1	2023	3608-2(RCA)	2030	4011BDC	2411	4464	1617	4732	1617
2799	2023	3391A(SEARS)	2016	3541	2030	3608-2(RCA)	2030	4011BDM	2411	4465	1617	4733	1617
2802	1114	3403(RCA)	2009	3541(RCA)	1617	3610	2016	4011BFC	2411	4470	1617	4734	1617
2851	2017	3441	2009	3542	2009	3610(RCA)	2016	4011BFM	2411	4470-31	1617	4737	1617
2853-1	2017	3474(RCA)	2016	3543(RCA)	1617	3611	2017	4011BPC	2411	4470-32	1617	4743	2030
2853-2	2020	3472	2009	3544(RCA)	2030	3612	2017	4011PC	2411	4470-33	1617	4744	2016
2853-3	2017	3501	2030	3544-1	2009	3613(RCA)	2020	4012	2030	4470M-32	1617	4746	2016
2854	1617	3505	1123	3546	2009	3614-1	2009	4013(IC)	2413	4473-1	2016	4765	1617
2854-1	2017	3505(AIRLINE)	1123	3546(RCA)	1617	3614-3	2009	4013(RECTIFIER)	1104	4473-2	2016	4768	1617
2854-2	2020	3505(RCA)	1617	3546-1(RCA)	1617	3615	2030	4013BDC	2413	4473-3	2016	4778-8(RCA)	1114
2854-3	2017	3506(RCA)	1617	3546-2(RCA)	1617	3615(RCA)	2030	4013BDM	2413	4473-4	1617	4789	2016
2855-1	2017	3507	2030	3548	2009	3615-1	2030	4013BFC	2413	4473-5	1617	4800-224	1101
2855-2	2006	3507(SEARS)	2016	3548(RCA)	1617	3616-1	2023	4013BFM	2413	4473-3X	1617	4801-0000-001	2023
2855-3	2017	3507(WARDS)	2009	3549(RCA)	2023	3618(RCA)	2016	4013BPC	2413	4473-6	2016	4801-0000-002	2016
2856-1	2017	3508	2023	3549-1(RCA)	2023	3619-1	2023	4014	1104	4473-7	2016	4801-0000-010	2009
2856-2	2020	3509(RCA)	2009	3551(RCA)	1617	3619-2	1000	4014-209-30110	1123	4473-8	2016	4801-0000-016	2009
2856-3	2017	3509(SEARS)	2016	3554	2030	3619-3	2030	4017	2417	4473-9	1617	4801-0000-015	2016
2900-007	2016	3509(RCA)	2016	3554(RCA)	1617	3620(RCA)	1000	4017(IC)	2417	4473-11	2016	4801-0000-060	2023
2904-003	2009	3509	2016	3555	2030	3620-1	2023	4017BDC	2417	4473-12	1617	4801-00154	1122
2904-032	2030	3509(SEARS)	2009	3555-3	2030	3621(RCA)	2020	4017BDM	2417	4473-M-3	2009	4801-00628	1123
2904-033	2009	3509(WARDS)	2009	3556	2030	3622-1	2030	4017BFC	2417	4473-M3	2030	4801-00629	1123
2904-034	1617	3510	2009	3558	2009	3622-2	2009	4017BFM	2417	4473-M-12	2030	4801-00801	562
2904-035	1617	3510(RCA)	2009	3558(RCA)	1617	3625	2030	4017BPC	2417	4473-N	2030	4801-1100-0011	2009
2904-039	2023	3510(SEARS)	2016	3559(RCA)	2023	3625(RCA)	1617	4021	1617	4483	2030	4801-00002	2016
2904-045	2009	3510(WARDS)	2016	3559-1	2023	3626	1617	4022	2009	45320	030	4801-00003	1617
2904-051	2009	3511	2016	3560	2009	3627	2022	4034	2017	453800	030	4801-00004	2023
2904-054	2009	3511(SEARS)	2016	3560-1	2030	3627(RCA)	2023	4034	2017	45380V	030	4801-00005	2041
2907	2023	3511(WARDS)	2035	3560-1(RCA)	2016	3631	2023	4041-000-1018	1123	4587	2016	4802-00005A	2041
2925	1617	3512(RCA)	2030	3560-2	2030	3631-1	1617	4041-000-10150	1104	4594	1617	4802-00006	1617
2925(E.F. JOHNSON)	2009	3512(SEARS)	2035	3561	2009	3631-1(RCA)	2020	4041-000-40270	2016	4624	1617	4802-00009	1617
3001	2016	3512(WARDS)	2035	3561-1	2030	3632-1	2020	4041-000-40300	2016	4630	1617	4802-00010	2035
3001A	1104	3513(RCA)	2023	3562(RCA)	2023	3632-2(RCA)	2017	4041-000-60170	2016	4653	562	4802-00012	1617
3002	2016	3513(SEARS)	2023	3562(RCA)	2023	3627-1	2041	4041-000-60200	2016	4654-125-3	2016	4802-00014	2009
3003	2016	3513(WARDS)	2023	3563(RCA)	2030	3648(RCA)	2030	4041-200-10100	1123	4661-125-3	2016	4802-00018	1617
3003(SEARS)	2016	3514(SEARS)	2016	3563(RCA)	2030	3648-2(RCA)	2016	4041-200-30110	565	4661-25-3	1617	4802-1241-200	1123
3004(SEARS)	2016	3514(WARDS)	2009	3567-2	2020	3657-1	2030	4041-200-40100	1123	4661-25-3	1114	4804-0000-004	1104
3005(SEARS)	1617	3516(RCA)	2016	3568	2016	3665	2041	4049	2449	4661-97-3	1114	4811-0000-025	2035
3005-861	1617	3516(WARDS)	2016	3568(RCA)	2016	3666(RCA)	2030	4049(IC)	2449	4661-105-3	1114	4815	2023
3006(SEARS)	2009	3518	2016	3568(WARDS)	2016	3666-1	2023	4049B	2449	4661-106-3	1114	4820	2016
3007(SEARS)	1617	3518(RCA)	2016	3569	2016	3669	2055	4049BDC	2449	4661-107-3	2016	4820-0201	1122
3011	2009	3519	1617	3569(RCA)	2017	3676	2009	4049BDM	2449	4661-108-3	2016	4821	2016
3011(E.F. JOHNSON)	2009	3519(RCA)	1617	3569-1	2009	3674-1	2016	4049BFC	2449	4661-112-3	2016	4821-130-30192	1104
3011	2009	3519-1	1617	3570	2023	3688-1	2016	4051-300-10150	1104	4661-114-3	2016	4821-130-30154	1104
3011(E.F. JOHNSON)	1617	3520	1617	3570(RCA)	2023	3687	2020	4057(RCA)	2059	4661-110-3	2016	4821-130-30159	1104
3017	1617	3520	303	3570-1	2023	3682	202	4057	1617	4661-119-3	2016	4821-130-30264	565
3018	2023	3520(DIO)	563	3570P	2023	3683	2041	4064	2009	4661-120-3	2016	4821-130-30281	1123
3018	2016	3520(WARDS)	563	3571	2030	3688	1067	4066(IC)	2466	4661-126-3	2016	4821-130-30284	567
3018(E.F. JOHNSON)	2016	3521	2030	3571(RCA)	2009	3688-1	1067	4066BDC	2466	4661-127-3	2016	4821-130-30301	1123
3018	2016	3521(SEARS)	2009	3571-1	2016	3693(ARVINE)	2016	4066BDM	2466	4661-131-3	2016	4821-130-30311	1123
3018(E.F. JOHNSON)	2016	3521-1	2016	3571R	2009	3697-1	2023	4066BPC	2466	4661-132-3	1617	4821-130-30312	1123
3018	2016	3522(SEARS)	2023	3572	2016	3700-153	1104	4080	2035	4661-139-3	1114	4821-130-30414	1171
3019	2020	3523(SEARS)	2009	3573(RCA)	1617	3703	561	4080-107-0007	2030	4661-140-3	2016	4821-130-40132	2041
3020	2016	3524(RCA)	2016	3573-3	2016	3714M)	2041	4080-100-0056	2020	4661-143-3	1617	4821-130-40162	1722
3021	2016	3524(SEARS)	2023	3574	2								

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
4822-130-40304	2016	5203RNL	1101	5613-1342C	2016	7005G(LOWREY)	1617	7398-6117P1	1617	7708-1	1114	8000-00004-132	562
4822-130-40311	2016	5205NI	1104	5613-1359(B)	2009	7006	2009	7398-6118P1	1617	7710-1	1114	8000-00004-150	2009
4822-130-40312	2016	5205NL	1104	5613-1359(C)	2009	7014	2009	7398-6119P1	1617	7711-1	1114	8000-00004-281	1122
4822-130-40313	2016	5210DC-1	1143	5613-1359B	2009	7015	2009	7400	1801	7712-1	1114	8000-00004-089	2009
4822-130-40315	2023	5217	1122	5613-1684(Q)	2009	7108	1617	7400/9N00	1801	7713-1	1114	8000-00004-174	2009
4822-130-40317	2016	5222	563	5613-1684(R)	2009	7109	2058	7400-6A	1801	7753DMP	2041	8000-00009-177	2016
4822-130-40318	2016	5224	564	5613-1684(T)	2009	7112	1122	7400-9A	1801	7805	1770	8000-00009-178	2035
4822-130-40333	2009	5226-1	2023	5613-1684H(R)	2009	7113	2009	7400A	1801	7805A	1770	8000-00009-280	2016
4822-130-40354	1617	5226-2	1617	5613-1684T	2009	7115	2016	7400DC	1801	7805C	1770	8000-0004-004	2023
4822-130-40356	2030	5300-82-3	1114	5613-1788(R)	2009	7116	2058	7400PC	1801	7810	2016	8000-0004-P060	1123
4822-130-40361	1617	5300-82-4	1114	5613-1788R	2009	7117	2009	7401-6A	1801	7811	2016	8000-0004-P-061	1104
4822-130-40364	1617	5300-86-1	1104	5613-1815(GR)	2009	7118	2016	7401-9A	1801	7812	2016	8000-0004-P063	1122
4822-130-50221	1104	5300-88-1	1104	5613-1923(Y)	2058	7122	2016	7401DC	1801	7812(IC)	1771	8000-0004-P062	1122
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4826	2016	5300-88-1003	1114	5614-330(E)	2020	7124	2016	7404-6A	1802	7813	2016	8000-0004-P065	562
4828-4	1123	5300-88-1004	1114	5614-359C	2020	7125	2016	7404-9A	1802	7814	2016	8000-0004-P066	1122
4837	2016	5300-94-1	1104	5614-360D	2020	7126	2016	7404A	1802	7815	1772	8000-0004-P067	1104
4839	1617	5300-95-1	1104	5631-0A90	1123	7127	2016	7404DC	1802	7815(IC)	1772	8000-0004-P068	1104
4840	1617	5300-98-1	1104	5631-0A90M	1123	7128	2016	7404N	1802	7815CU	1772	8000-0004-P079	2009
4841	1617	5300-99-1	1104	5631-1N34A	1123	7129	2009	7404PC	1802	7816	1617	8000-0004-P080	2035
4842	1617	5300-99-3	1104	5631-1N60	1123	7131	2016	7408	1822	7817	1617	8000-0004-P081	2035
4844	2023	5300-99-4	1104	5631-1N60P	1123	7132	2016	7408-6A	1822	7818	1617	8000-0004-P082	2009
4845	2016	5301-06-1	1104	5631-1S2076	1122	7133	2016	7408-9A	1822	7991	1143	8000-0004-P085	2009
4851	2016	5301-06-1001	1114	5631-1S2473	1122	7134	2016	7408A	1822	7962	1104	8000-0004-P086	2009
4852	1617	5301-09-1	1104	5631-20A90	1123	7171	2009	7408DC	1822	7991	2016	8000-0004-P089	2023
4854	1617	5301-11-1001	1114	5631-20A90H	1123	7172	2009	7408N	1822	7992	2009	8000-0004-P060	1123
4855	2016	5301-13-1	1104	5631-20A90H(1)	1123	7173	2016	7408PC	1822	8000-00003-004	2023	8000-0004-P061	1122
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4882	2041	5301-36-T	1114	5632-1S2226	1104	7175	2016	7420	2027	8000-00003-034	2009	8000-0004-P063	1123
4894	2016	5303-1	1060	5632-1S2227	1104	7176	2009	7423	2020	8000-00003-035	2009	8000-0004-P064	1122
4927	2009	5303-2	1060	5632-ERB24-04	1104	7177	2016	7425	2016	8000-00003-036	2009	8000-0004-P065	562
4937	2016	5361-1N60P	1123	5632-ERB24-06	1104	7178	2016	7426	2016	8000-00003-037	2023	8000-0004-P066	1122
4943	2023	5380-21	1104	5632-ERC04-04	1114	7206-0	1101	7427	2016	8000-00003-044	1184	8000-0004-P067	1104
4989	2023	5380-71	1617	5632-S1B01-02	1104	7209A	1101	7428	2016	8000-00003-043	1123	8000-0004-P068	1104
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5001-037	2009	5417G	2009	5635-RD5R1EB	565	7214	2016	7447	1805	8000-00004-065	562	8000-0004-P084	2030
5001-038	2009	5417H	2009	5635-RD9R1EB2	562	7214(Lowrey)	2041	7447ADC	1805	8000-00004-068	1104	8000-0004-P085	1617
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5001-070	2009	5512	565	5636-1S5133	1122	7214A	2041	7447BDC	1805	8000-00004-081	2023	8000-0005-001	2035
5001-074	2009	5513	565	5637-GL31AR	026	7214S	1104	7447BPC	1805	8000-00004-082	2009	8000-0005-062	2016
5001-080	1123	5522	563	5641-MV11	1104	7215	2016	7447DC	1805	8000-00004-089	2023	8000-0005-003	2016
5001-083	1122	5522-8	1143	5661-C6B3	1067	7215-1	1114	7447PC	1805	8000-00004-85	1617	8000-0005-004	2009
5001-089	1102	5601-MS	1104	5701	2023	7215-2	1114	7490	1808	8000-00004-184	564	8000-0005-007	1617
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80814VM	1617	95127	2016	110496	1104	116119	2016	123296	1104	126582	564	129509	2016
80815VM	1617	95128	2016	110410	1122	116148	1617	123429	2016	126670	2016	129510	2016
80816VM	1617	95129	2016	110439	1104	116198	2016	123430	2016	126698	2016	129511	2016
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81513-II	1104	95131	2016	110669	2009	116200	2016	123702	1104 N6	126700	2023	129513	2016
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87757	2009	95216BEL	1617	111820	1104	118284	2023	124047	2023	126715	2023	129938	561
87758	2023	95220	2030	112017	1104	118710	1617	124098	1104	126716	2009	129944	564
87759	2023	95221	2023	112018	1104	118821	2016	124243	2016	126717	2009	129979	2016
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94066	2020	101809	1104	116023(SIARKS)	1123	121663	1617	125994(RCA)	2016	129144	2020	131649	2016
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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984200	1123	988991	1617	1417339-1	2023	1473524-1	2016	1473614-3	2009	1700019	2009	2002332-55	2016
984222	1617	988993	2030	1417340-2	2009	1473524-2	2016	1473615-1	2030	1700020	2058	2002332-56	2016
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984229	2030	988996	1122	1417345-2	2030	1473529-1	2016	1473619-1	1000	1700034	2023	2002336-20	1123
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A4JBLK	2041	A5T3392	2009	A6K5	1114	A8R	2016	A15A	1143	A67-37-940	2058	A177(A)	2023
A4JBRN	2041	A5T3496	2023	A6K9	1114	A8S	2016	A15B	1143	A68-23-560	2020	A177A	2023
A4JRED-1	2041	A5T3504	2023	A6L	2041	A8T404	2023	A15C	1144	A69IM4	1122	A177AB	2023
A4K	1114	A5T3505	2023	A6LBLK	2041	A8T404A	2023	A15D	1144	A72-49-600	1122	A178A	2023
A4K1	1114	A5T3565	2009	A6LBLK-1	2041	A8T3391	2009	A15F	1141	A75-68-500	1104	A178AB	2023
A4K5	1114	A5T3638	2023	A6LBRN	2041	A8T3391A	2009	A15U	1114	A-86-3-1	1101	A178B	2023
A4K9	1114	A5T3638A	2023	A6LBRN-1	2041	A8T3392	2009	A15U(DIODE)	1141	A86-3-1	1101	A178BA	2023
A4M	1617	A5T3644	2023	A6LRED	2041	A8T3702	2023	A15U(RECTIFIER)	1141	A-86-4-1	1101	A179A	2023
A4M1	1114	A5T3645	2023	A6LRED-1	2041	A8T3703	2023	A17(I.C.)	1808	A86-4-1	1101	A179AC	2023
A4M5	1114	A5T3707	2009	A6M1	1114	A8T3706	2009	A-18	2041	A-86-9-1	1122	A179B	2023
A4M9	1114	A5T3708	2009	A6M5	1114	A8T3707	2009	A18-4	2041	A90T2	2016	A179BB	2023
A4N	1617	A5T3709	2009	A6M9	1114	A8T3708	2009	A19-020-072	2016	A95-5281	1104	A192	2035
A4P	1617	A5T3710	2009	A6N	2041	A8T3709	2009	A20K	2023	A95-5285	1104	A194	2035
A4R	1617	A5T3711	2009	A6N-6	2041	A8T3710	2009	A20KA	2023	A95-5289	1104	A195	2035
A4S	2041	A5T3751	2030	A6P	2016	A8T3711	2009	A22B	1114	A95-5294	1104	A-195C	2023
A4S-1	2041	A5T3821	2062	A6R	1617	A8T4027	2023	A22B1	1114	A100	1104	A196	2035
A4T	2016	A5T3903	1617	A6S	1617	A8T4029	2023	A22D	1114	A101-A	1104	A200	1104
A4U	1617	A5T3904	1617	A6T	2016	A8T4058	2023	A22D1	1114	A-106	2009	A200-052	2023
A4V	1617	A5T3905	2023	A6T5222	2009	A8T4059	2023	A22M	1114	A108	1617	A211	2017
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A4Y-1A	2016	A5T4027	2023	A6V	2016	A8T4061	2023	A24MW594	2016	A111	1617	A244(AMC)	2016
A4Y-2	1617	A5T4029	2023	A6V-5	2016	A8T4062	2023	A24MW595	2016	A112-000172	2023	A245	2016
A4Z	2041	A5T4058	2023	A7-12	2041	A8T5172	2009	A24MW596	2016	A112-000185	2023	A245(AMC)	2016
A5A	2020	A5T4061	2023	A7-13	2041	A8U	2041	A24MW597	2016	A112-000187	2023	A246	1617
A5A1	1104	A5T4062	2023	A7A	1617	A8W	2041	A24T-016-01L	2016	A114A	1104	A246(AMC)	1617
A5A2	1104	A5T4123	2009	A7A1	1114	A8Y	2020	A24T-016-016	2016	A114B	1104	A248(AMC)	2009
A5A5	1104	A5T4124	2009	A7A5	1114	A9A	2016	A25-1007	1123	A114C	1114	A249	1617
A5A9	1104	A5T4125	2023	A7A9	1114	A9B	1617	A25-1008	1104	A114D	1104	A249(AMC)	2030
A5A-IB	2020	A5T4126	2023	A7A30	2016	A9D	2016	A26(W)	1122	A114E	1104	A253	2017
A5B	2030	A5T4248	2023	A7A31	2016	A9E	1617	A31-0206	2016	A114F	1101	A271	2017
A5B1	1104	A5T4249	2023	A7A32	2016	A9F	1617	A46-86101-3	2016	A114M	1104	A272	2020
A5B2	1104	A5T4250	2023	A7B5	1114	A9G	1617	A46-86109-3	2016	A120P1	2023	A273	2020
A5B5	1104	A5T4260	2023	A7B9	1114	A9H	1617	A46-86110-3	2016	A121-1	2023	A275	2017
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A5C	1617	A5T4403	2023	A7C1	1114	A9S	1617	A46-86301-3	2016	A121-444	2023	A277	2020
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A5C5	1104	A5T5086	2023	A7C9	1114	A9V	2020	A48	1103	A121-495	2016	A297V073C04	2023
A5C9	1104	A5T5087	2023	A7D	1104	A9W	1617	A48-40247G01	2016	A121-496	2023	A300	1104
A5D1	1104	A5T5172	2009	A7D1	1114	A9Y	1617	A48-43351A02	2016	A121-497	2023	A301	1617
A5D2	1104	A5T5209	2030	A7D5	1114	A10A	1104	A48-63078A52	1123	A121-497WHT	2023	A306	1617
A5D5	1104	A5T5210	2030	A7D9	1114	A10B	1104	A48-97046A05	2016	A121-585	2016	A307	1617
A5D9	1104	A5T5219	2009	A7E	1104	A10C	1104	A48-97046A06	2016	A121-585B	2016	A323	1617
A5E1	1104	A5T5220	2009	A7E(TRANSISTOR)	1617	A10D	1104	A48-97046A07	2016	A121-602	2023	A344	1617
A5E2	1104	A5T5221	2023	A7E1	1114	A10E	1104	A48-97127A06	2016	A121-603	2023	A345	1617
A5E5	1104	A5T5223	2009	A7E5	1114	A10G05-010-A	1617	A48-97127A12	2016	A121-679	2023	A346	1617
A5E9	1104	A5T5225	2009	A7E9	1114	A10G05-011-A	1617	A48-97127A18	2016	A121-687	2016	A400	1104
A5F1	1104	A5T5226	2023	A7F1	1114	A10G05-015-D	1617	A48-134789	2016	A121-699	2023	A402(25)	2023
A5F2	1104	A5T5227	2023	A7F5	1114	A10M	1104	A48-134837	2016	A121-746	2023	A-415	2009
A5F5	1104	A5T5447#	2023	A7F9	1114	A10N	1114	A48-134845	2016	A121-774	2023	A415	1617
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A5G2	1104	A5W	1617	A7G5	1114	A12-1-70	1617	A48-134922	2016	A123-7	1104	A417-132	2023
A5G5	1104	A6A1	1114	A7G9	1114	A12-1-705	1617	A48-134923	2016	A-128	2009	A417-153	2023
A5G9	1104	A6A5	1114	A7H1	1114	A12-1A9G	1617	A48-134924	2016	A128	1617	A417-154	2016
A5H	1617	A6A9	1114	A7H5	1114	A13-0032	2041	A48-134925	2016	A129-34	2023	A417-176	2023
A5H1	1114	A6AK	1114	A7H9	1114	A13-17918-1	2041	A48-134926	2016	A130-149	2023	A417-182	2023

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DEVICE	276	DEVICE	276	DEVICE	276	DEVICE	276	DEVICE	276	DEVICE	276	DEVICE	276
A417-184	2023	A482M	2023	A494Y	2023	A509BL	2023	A530Y	2023	A562-GF	2023	A564S(2S)	2023
A417-190	2016	A482OR	2023	A495	2016	A509C	2023	A531	2023	A562-GRN	2023	A564T(2S)	2023
A417-196	2023	A482V	2023	A495(2S)	2023	A509D	2023	A531(2S)	2023	A562-O(1S)	2023	A564X	2023
A417-200	2023	A482X	2023	A495-0	2023	A509E	2023	A531A	2023	A562-O(JAPAN)	2023	A564XL	2023
A417-201	2023	A482Y	2023	A495-T	2023	A509F	2023	A531B	2023	A562-O(KOREA)	2023	A564Y	2023
A417-205	2016	A484	2016	A495-GN	2023	A509G	2023	A531C	2023	A562-OR	2023	A565(2S)	2023
A417-205	2023	A484(ADMIRAL)	2016	A495-O(2S)	2023	A509GN	2023	A531D	2023	A562-ORG	2023	A565A(2S)	2023
A418	2016	A486	2016	A495-OF	2023	A509G-O	2023	A531E	2023	A562-R(2S)	2023	A565AB	2023
A419	2016	A488-A0060	1122	A495-OR	2023	A509GR(2S)	2023	A531F	2023	A562-RD	2023	A565B(2S)	2023
A420	2016	A489	2016	A495-ORG	2023	A509GR-1	2023	A531G	2023	A562-RED	2023	A565BA	2023
A425A	1104	A490(1S)	2027	A495-ORG-G	2023	A509G-Y	2023	A531GM	2023	A562-Y(2S)	2023	A565C(2S)	2023
A427	2016	A490-Q(2S)	2027	A495-Q	2023	A509H	2023	A531H	2023	A562-YE	2023	A565D(2S)	2023
A429-0941-12	2016	A490-R(1S)	2027	A495-R(1S)	2023	A509I	2023	A531J	2023	A562-YEL	2023	A565E	2023
A434	1817	A490-Y(2S)	2027	A495-RD	2023	A509K	2023	A531K	2023	A562D	2023	A565F	2023
A463-181-1W	2016	A490	2016	A495-RSD	2023	A509L	2023	A531L(2S)	2023	A562E	2023	A565G	2023
A466	2030	A490(2S)	2027	A495-RED-G	2023	A509M	2023	A531M	2023	A562G(2S)	2023	A565GN	2023
A467	2023	A490-O	2027	A495-RED-G	2023	A509OR	2023	A531OR	2023	A562GR(2S)	2023	A565H	2023
A467(2S)	2023	A490-R	2027	A495-YEL	2023	A509Q	2023	A531Q	2023	A562GRN	2023	A565J	2023
A467A	2023	A490-Y	2027	A495-YEL-G	2023	A509R(2S)	2023	A531R(2S)	2023	A562O	2023	A565K(2S)	2023
A467B	2023	A490A	2027	A495-YL	2023	A509RD	2023	A531Y	2023	A562Q	2023	A565L	2023
A467C	2023	A490B	2027	A495A	2023	A509T	2023	A532(2S)	2023	A562R(2S)	2023	A565M	2023
A467D	2023	A490C	2027	A495B	2023	A509V	2023	A542A	2023	A562S	2023	A565N	2023
A467E	2023	A490D	2027	A495C	2023	A509W	2023	A542B	2023	A562T	2023	A565P	2023
A467F	2023	A490E	2027	A495D(2S)	2023	A509X	2023	A542C	2023	A562T(2S)	2023	A565Q	2023
A467G(2S)	2023	A490F	2027	A495E	2023	A509Y	2023	A542D	2023	A562TM	2023	A565R	2023
A467GN	2023	A490G	2027	A495F	2023	A514-022057	1123	A542E	2023	A562TM-0	2023	A567	2023
A467G-O(2S)	2023	A490GN	2027	A495G	2023	A514-023626	1104	A542F	2023	A562TM-O	2023	A567A	2023
A467G-R(2S)	2023	A490H	2027	A495G-GR(2S)	2023	A514-025607	1104	A542G	2023	A562TMO	2023	A567B	2023
A467G-Y(2S)	2023	A490J	2027	A495GN	2023	A514-027757	1104	A542GN	2023	A562TMO-OFA	2023	A567C	2023
A467H	2023	A490K	2027	A495G-O(2S)	2023	A514-028072	1104	A542H	2023	A562TM-Y	2023	A567D	2023
A467I	2023	A490L	2027	A495G-R(2S)	2023	A514-028073	1104	A542J	2023	A562TM-YFA	2023	A567E	2023
A467K	2023	A490M	2027	A495G-Y(2S)	2023	A514-028928	2067	A542K	2023	A562TO	2023	A567F	2023
A467L	2023	A490N	2027	A495H	2023	A514-031903	1104	A542L	2023	A562TQ	2023	A567G	2023
A467M	2023	A490P	2027	A495J	2023	A514-031904	1104	A542M	2023	A562V	2023	A567H	2023
A467OR	2023	A490Q	2027	A495K	2023	A514-031904	1114	A542ON	2023	A562VO	2023	A567I	2023
A467R	2023	A490Y(2S)	2027	A495L	2023	A514-040296	2035	A542R	2023	A562Y(2S)	2023	A567H	2023
A467X	2023	A490YA	2027	A495M	2023	A514-042791	1122	A542X	2023	A562Y(JAPAN)	2023	A567J	2023
A467Y	2023	A492	2016	A495O	2023	A514-044910	2023	A542Y	2023	A562Y(KOREA)	2023	A567K	2023
A472	2009	A493(2S)	2023	A495OF	2023	A514-047830	2020	A543(2S)	2023	A562YE	2023	A567L	2023
A-473	2058	A493-GR	2023	A495OR	2023	A514-0339903	1104	A550(2S)	2023	A562YEL	2023	A567M	2023
A473	2014	A493-Q(2S)	2023	A495P	2023	A514-0339903	1104	A550A(2S)	2023	A562Y-IM	2023	A567N	2023
A473(2S)	2027	A493-Y	2023	A495Q	2023	A514-0339903	1104	A550AB	2023	A564	2023	A567R	2023
A473-G(2S)	2027	A493A	2023	A495R	2023	A514-0339903	1104	A550AB	2023	A564-O(1S)	2023	A567X	2023
A473-O(2S)	2027	A493B	2023	A495S	2023	A514-0339903	1104	A550AB	2023	A564-O(2S)	2023	A567Y	2023
A473-O(KOREA)	2027	A493C	2023	A495T	2023	A514-0339903	1104	A550AB	2023	A564-O(2S)	2023	A568(2S)	2023
A473-R(2S)	2027	A493D	2023	A495W(2S)	2023	A514-0339903	1104	A550AB	2023	A564-OR	2023	A568-OR	2023
A473-Y(2S)	2027	A493E	2023	A495W1	2023	A514-0339903	1104	A550AB	2023	A564-OR	2023	A568A	2023
A473B	2027	A493F	2023	A495W1	2023	A514-0339903	1104	A550AB	2023	A564-P	2023	A568B	2023
A473D	2027	A493G	2023	A495X	2023	A514-0339903	1104	A550AB	2023	A564-Q	2023	A568C	2023
A473GR	2027	A493G-GR	2023	A495Y(2S)	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A568D	2023
A473R	2027	A493GN	2023	A495YEL	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A568E	2023
A473Y(2S)	2027	A493O-Y	2023	A495YBL-G	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A568F	2023
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A480(2S)	2023	A493I	2023	A495YEL	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A568H	2023
A480-OR	2023	A493K	2023	A495YEL	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A568I	2023
A480A	2023	A493L	2023	A502(2S)	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A568J	2023
A480B	2023	A493M	2023	A502-O	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A568K	2023
A480C	2023	A493OR	2023	A502-OR	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A568L	2023
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A480E	2023	A493X	2023	A502-Y	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A568OR	2023
A480F	2023	A493Y(2S)	2023	A502A	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A568R	2023
A480G	2023	A494	2009	A502B	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A568S	2023
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A480H	2023	A494(2S)	2023	A502D	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A568U	2023
A480J	2023	A494-GR(2S)	2023	A502E	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A568V	2023
A480K	2023	A494-GR-1	2023	A502F	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A568W	2023
A480L	2023	A494-O(2S)	2023	A502G	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A568X	2023
A480M	2023	A494-OR	2023	A502GN	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A568Y	2023
A480OR	2023	A494-Y(2S)	2023	A502H	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A569	2023
A480R	2023	A494A	2023	A502J	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A569(2S)	2023
A480Y	2023	A494B	2023	A502K	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A569A	2023
A480Y	2023	A494C	2023	A502L	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A569B	2023
A481	2016	A494D	2023	A502M	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A569C	2023
A482	2016	A494E	2023	A502N	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A569D	2023
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A482B	2023	A494GN	2023	A502Y	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A569G	2023
A482C	2023	A494GR	2023	A509(2S)	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A569H	2023
A482D	2023	A494H	2023	A509-0	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A569I	2023
A482E	2023	A494J	2023	A509-O(2S)	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A569J	2023
A482F	2023	A494K	2023	A509-OR	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A569K	2023
A482G	2023	A494L	2023	A509-R	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A569L	2023
A482H	2023	A494M	2023	A509-RD	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A569M	2023
A482I	2023	A494N	2023	A509-Y(2S)	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A569N	2023
A482J	2023	A494O	2023	A509-YE	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A569OR	2023
A482K	2023	A494P	2023	A509A	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A569P	2023
A482L	2023	A494X	2023	A509B	2023	A514-0339903	1104	A550AB	2023	A564-R	2023	A569Q	2023
A482M	2023	A494Y	2023	A509C									

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
A570E(TRANS)	2023	A609F(2S)	2023	A641R	2023	A668-O	2030	A671J	2023	A719S(2S)	2023	A768	2027
A570F	2023	A609G(2S)	2023	A641S	2023	A668-ORG	2016	A678K	2023	A720(2S)	2023	A768G	2027
A570G	2023	A609GN	2023	A641Y	2023	A668-Y	2009	A678L	2023	A720-G	2023	A768O	2027
A570GN	2023	A609J	2023	A642	2023	A668-YEL	2016	A678M	2023	A720-O	2023	A768Y	2027
A570H	2023	A609K	2023	A642(2S)	2023	A669-G	2009	A678OR	2023	A720-Q	2023	A772B1	2016
A570J	2023	A609L	2023	A642-254	2016	A669-GRN	2016	A678R	2023	A720-R	2023	A772EH	2016
A570K	2023	A609M	2023	A642-260	2016	A669-Y	2009	A678X	2023	A720A	2023	A772FE	2016
A570L	2023	A609OR	2023	A642-268	2016	A669-YEL	2016	A678Y	2023	A720B	2023	A774	2023
A570M(TRANS)	2023	A609R	2023	A642A(2S)	2023	A670(2S)	2027	A679(2S)	2023	A720C	2023	A774A	2023
A570OR	2023	A609Y	2023	A642B(2S)	2023	A670A(2S)	2027	A679-R	2023	A720D	2023	A774	2023
A570R	2023	A610	2023	A642C(2S)	2023	A670B(2S)	2027	A679-Y	2023	A720L	2023	A782	2023
A570X	2023	A610(2S)	2023	A642D(2S)	2023	A670C(2S)	2027	A680(2S)	2023	A720NC	2023	A782	2023
A570Y	2023	A611	2023	A642E(2S)	2023	A672	2023	A680-R	2023	A720Q(2S)	2023	A786-Q	2023
A572	2041	A611(2S)	2023	A642F(2S)	2023	A672A(2S)	2023	A680-Y	2023	A720QR	2023	A786Q	2023
A572(2S)	2023	A615-1012	1123	A642G	2023	A672B(2S)	2023	A685	2023	A720R(2S)	2023	A786QL	2023
A572-1	2041	A620	2023	A642GN	2023	A672C(2S)	2023	A691M4	1122	A720S(2S)	2023	A786R	2023
A572Y	2023	A621	2023	A642H	2023	A673(2S)	2023	A691M5	1122	A720Y	2023	A787	2023
A573	2023	A628(2S)	2023	A642J	2023	A673-C	2023	A691M5-2	1122	A721(2S)	2023	A788	2023
A575	2023	A628-O	2023	A642K	2023	A673-D	2023	A692T5	1104	A721Q	2023	A798	2023
A576-0001-002	2023	A628-OR	2023	A642L	2023	A673-O	2023	A692T5-0	1104	A721R	2023	A800	1114
A576-0001-013	2023	A628A(2S)	2023	A642M(2S)	2023	A673-OR	2023	A692T5-13-4	1123	A721S(2S)	2023	A800-523-01	2023
A578(2S)	2023	A628A(JAPAN)	2023	A642N	2023	A673A(2S)	2023	A692T5-16-0	1104	A721T(2S)	2023	A800-523-02	2023
A579(2S)	2023	A628AA	2023	A642OR	2023	A673A(JAPAN)	2023	A693	2023	A721U(2S)	2023	A800-527-00	2023
A593	1617	A628AD	2023	A642R	2023	A673AB(2S)	2023	A693C	2023	A721V(2S)	2023	A811	2023
A600	1104	A628A-E	2023	A642S	2016	A673AC(2S)	2023	A696(2S)	2023	A722(2S)	2023	A811A	2023
A600(RECTIFIER)	1104	A628AE	2023	A642S(2S)	2023	A673AC(JAPAN)	2023	A696D(2S)	2023	A722S(2S)	2023	A811C5	2023
A603	2023	A628A-F	2023	A642V	2023	A673AD(2S)	2023	A697(2S)	2023	A723	2023	A811C6	2023
A603(2S)	2023	A628B	2023	A642W(2S)	2023	A673AK	2023	A697C(2S)	2023	A723R	2023	A811C7	2023
A603A	2023	A628C	2023	A642X	2023	A673AKA	2023	A700(2S)	2027	A725EH2AB1	1114	A811C8	2023
A603B	2023	A628D(2S)	2023	A642Y	2023	A673AKB	2023	A700B(2S)	2027	A725Y	2023	A812	2023
A603C	2023	A628E(2S)	2023	A644L	2016	A673AKC	2023	A700Y(2S)	2027	A726(2S)	2023	A812M3	2023
A603D	2023	A628EF	2023	A644S	2016	A673AKD	2023	A701	2023	A726Y	2023	A812M4	2023
A603E	2023	A628F(2S)	2023	A645L	2016	A673AS(2S)	2023	A701F(2S)	2023	A728	2023	A812M5	2023
A603F	2023	A628G	2023	A645S	2016	A673B(2S)	2023	A701FO	2023	A728A	2023	A812M6	2023
A603G	2023	A628GN	2023	A646(2S)	2043	A673C(2S)	2023	A701FJ(2S)	2023	A733	2023	A812M7	2023
A603GN	2023	A628H	2023	A649	2043	A673C(JAPAN)	2023	A701FO(2S)	2023	A733(2S)	2023	A825(2S)	2023
A603H	2023	A628J	2023	A649A	2043	A673C2(2S)	2023	A702(2S)	2023	A733-P	2023	A825Q	2023
A603J	2023	A628K	2023	A649L	1617	A673D(2S)	2023	A704	2023	A733-Q	2023	A825R	2023
A603K	2023	A628L	2023	A649S	1617	A673D(JAPAN)	2023	A704A	2023	A733A(2S)	2023	A825S	2023
A603L	2023	A628M	2023	A650	2043	A673E	2023	A704B	2023	A733AK	2023	A826	2023
A603M	2023	A628OR	2023	A651	2043	A673F	2023	A704C	2023	A733AP	2023	A826P	2023
A603OR	2023	A628R	2023	A659(2S)	2023	A673G	2023	A704D	2023	A733AP(JAPAN)	2023	A826Q	2023
A603R	2023	A628X	2023	A659A	2023	A673GN	2023	A704E	2023	A733AQ	2023	A826R	2023
A603X	2023	A628Y	2023	A659B	2023	A673H	2023	A704F	2023	A733AQ(JAPAN)	2023	A826S	2023
A603Y	2023	A629(2S)	2023	A659D(2S)	2023	A673J	2023	A704G	2023	A733H(2S)	2023	A826T	2023
A608	2023	A629A	2023	A659E(2S)	2023	A673K	2023	A704GN	2023	A733I	2023	A829	2023
A608(2S)	2023	A629B	2023	A659F(2S)	2023	A673L	2023	A704H	2023	A733IO	2023	A829A	2023
A608-0	2023	A629C	2023	A659G	2023	A673M	2023	A704J	2023	A733IQ(2S)	2023	A829B	2023
A608-C(2S)	2023	A629D	2023	A659L	2023	A673OR	2023	A704K	2023	A733IP(2S)	2023	A829C	2023
A608-E(2S)	2023	A629E	2023	A659P	2023	A673R	2023	A704L	2023	A733IPQ	2023	A829D	2023
A608-F(2S)	2023	A629F	2023	A659R	2023	A673S	2023	A704M	2023	A733IQ(2S)	2023	A829E	2023
A608-O	2023	A629G	2023	A659Y	2023	A673Y	2023	A704OR	2023	A733QP(2S)	2023	A829F	2023
A608-OR	2023	A629GN	2023	A661(2S)	2023	A675(2S)	2023	A704R	2023	A733Q	2023	A833	2023
A608A(2S)	2023	A629H	2023	A661-GR	2023	A677(2S)	2023	A704S	2023	A733R(2S)	2023	A833(2S)	2023
A608AE	2023	A629J	2023	A661-O(2S)	2023	A677-0	2023	A704X	2023	A733Y(KOREA)	2023	A836(2S)	2023
A608AF	2023	A629K	2023	A661-R	2023	A677-O	2023	A704Y	2023	A735	2023	A836D(2S)	2023
A608B(2S)	2023	A629L	2023	A661-Y	2023	A677-OR	2023	A705	2023	A744(2S)	2023	A836E(2S)	2023
A608BL	2023	A629M	2023	A661Y(2S)	2023	A677A	2023	A705(2S)	2023	A745	2043	A836F	2023
A608C(2S)	2023	A629OR	2023	A663(2S)	2043	A677B	2023	A705A	2023	A745A	2043	A838	2023
A608D(2S)	2023	A629R	2023	A663-BL	2043	A677C	2023	A705B	2023	A746(2S)	2043	A838B	2023
A608E(2S)	2023	A629X	2023	A663-R	2043	A677D	2023	A705C	2023	A747	2043	A838C	2023
A608E(JAPAN)	2023	A629Y	2023	A663-Y	2043	A677E	2023	A705D	2023	A747(2S)	2043	A841	2023
A608F(2S)	2023	A640	2023	A664(2S)	2023	A677F	2023	A705E	2023	A747A	2043	A841(2S)	2023
A608F(JAPAN)	2023	A640(2S)	2023	A666A(2S)	2023	A677G	2023	A705F	2023	A747A(2S)	2043	A841-BL	2023
A608G(2S)	2023	A640A(2S)	2023	A666B	2023	A677GN	2023	A705G	2023	A747B	2016	A841-GR	2023
A608GN	2023	A640B(2S)	2023	A666BL	2023	A677H	2023	A705GN	2023	A748	2027	A842	2023
A608H	2023	A640C(2S)	2023	A666C	2023	A677HL	2023	A705H	2023	A748B	1617	A842(2S)	2023
A608J	2023	A640D(2S)	2023	A666D	2023	A677L	2023	A705J	2023	A748C	2016	A842-BL	2023
A608K	2023	A640L	2023	A666E	2023	A677K	2023	A705K	2023	A749	1617	A842-GR	2023
A608KE	2023	A640M(2S)	2023	A666H(2S)	2023	A677K	2023	A705L	2023	A749B	1617	A844	2023
A608KF	2023	A640S	2023	A666HR(2S)	2023	A677M	2023	A705M	2023	A749C	2023	A844(2S)	2023
A608KF(JAPAN)	2023	A641	2023	A666I	2023	A677OR	2023	A705OR	2023	A750	2016	A844C	2023
A608L	2023	A641(2S)	2023	A666IQR5(2S)	2023	A677R	2023	A705R	2023	A753(2S)	2043	A844C(JAPAN)	2023
A608M	2023	A641(PBP)	2023	A666QRS	2023	A677X	2023	A705X	2023	A750-4004-248	2023	A844D(2S)	2023
A608NP	2023	A641A(2S)	2023	A666R(2S)	2023	A677Y	2023	A705Y	2023	A754(2S)	2027	A844D(JAPAN)	2023
A608OR	2023	A641B(2S)	2023	A666S(2S)	2023	A678(2S)	2023	A709	2023	A755(2S)	2027	A844E(2S)	2023
A608P	2023	A641BL	2023	A666Y	2023	A678-O	2023	A714	2043	A755B(2S)	2027	A844F	2023
A608R	2023	A641C(2S)	2023	A667-G	2009	A678-OR	2023	A714-L	2043	A755C(2S)	2027	A850	2023
A608SP	2023	A641D(2S)	2023	A667-GRN	2016	A678A	2023	A714L	2043	A758	2043	A854	2023
A608X	2023	A641G	2023	A667-O	2030	A678B	2023	A718(2S)	2023	A758(2S)	2043	A854-Q	2023
A608Y	2023	A641GR	2023	A667-ORG	2016	A678C	2023	A719(2S)	2023	A758A	2043	A854G	2023
A609(2S)	2023	A641K	2023	A667-RED	2016	A678D	2023	A719-D	2023	A758B	2043	A854H	2023
A609A(2S)	2023	A641L	2023	A667-Y	2009	A678E	2023	A719K	2023	A759(2S)	2023	A854Q(JAPAN)	2023
A609B(2S)	2023	A641L(2S)	2023	A667-YEL	2016	A678F	2023	A719NC	2023	A759A	2023	A854QE	2023
A609C(2S)	2023	A641M(2S)	2023	A667RED	2016	A678G	2023	A719OR	2023	A759B	2023	A854R	2023
A609D(2S)	2023	A641O	2023	A668-G	2009	A678GN	2023	A719PQR	2023	A760	2023	A855	2023
A609E(2S)	2023	A641OR	2023	A668-GRN	2016	A678H	2023	A719R(2S)	2023	A763	2023	A856	2023
								A719S(2S)	2023	A767	2023	A856A	2023

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-		
A859	2023	A991-01-1316	2023	A1164	2023	A3574	2023	A174707	2023	A6317440	2009	A6148520	2020
A866	2023	A991-01-1319	2023	A1170	2016	A3581	2023	A126715	2023	A6317440	2009	A7000980	1123
A866V	2023	A991-01-3058	2023	A1174	2023	A4084	2023	A126718	2023	A6317440(,25C1815-GR)	2009	A7001800	1123
A866VG	2023	A993	2023	A1175	2023	A4087	2023	A126719	2023	A6317440	2009	A7001957	1123
A868	2023	A999	2023	A1175(JAPAN)	2023	A4126	2023	A129509	2016	A6317480	2009	A7109890	561
A869	2023	A999L	2023	A1175-F	2023	A4212-A	1104	A129510	2016	A6317480(,25C1815BL)	2009	A7110023	565
A870	2023	A1000	1114	A1175E	2023	A4212A	1114	A129511	2016	A6317520	2009	A7110041	565
A876HA	2023	A1001	2043	A1175F	2023	A4310	2023	A129512	2016	A6317526	2009	A7110055	561
A876HB	2023	A1002	2043	A1175F(JAPAN)	2023	A4442	2023	A129513	2016	A6317526	2009	A7110076	561
A876HC	2023	A1004	2023	A1175FH	2023	A4745	2023	A129571	2016	A6317526	2009	A7110077	561
A880	2023	A1005	2023	A1175H	2023	A4789	2016	A129572	2016	(,25C1815-0FA)	2009	A7110263	562
A882	2023	A1012	2023	A1175H(JAPAN)	2023	A4802-00004	2023	A129573	2016	A6317540	2009	A7110411	563
A888	2023	A1012-Y	2027	A1175J	2023	A4815	2023	A129574	2016	A6317547(,25C1815-Y)	2009	A7110412	563
A889	2023	A1012Y(JAPAN)	2027	A1214	2023	A4822-130-40-48	2023	A129697	2023	A6317547(,25C1815-Y)	2009	A7110509	564
A890	2023	A1015	2023	A1200	2016	A4844	2023	A129699	2023	A6317547(,25C1815-YFA)	2009	A7110509	564
A891	2023	A1015-0	2023	A1246	2023	A4851	2016	A130139	2023	A6317567	2009	A7150258	1122
A901	2023	A1015-O	2023	A1246R	2023	A5226-1	2023	A-132591	1143	A6317560	2009	A7150258	1122
A902	2023	A1015-O(JAPAN)	2023	A1246S	2023	A5640R	2023	A-134166-2	563	A6317562	2009	A7150351	1122
A903	2023	A1015-O(KOREA)	2023	A1246S(JAPAN)	2023	A8405	2023	A190429	2023	A6317567	2009	A7246602	1122
A906	2023	A1015-0FA	2023	A1246T	2023	A8540	2023	A489751-028	2023	A6317567	2009	A7246602(,151553(TV))	1122
A906[2S]	2023	A1015-Y	2023	A1246U	2023	A8867	2023	A489751-031	2023	A6317567(,25C1815-GRFA)	2009	A7246653	1122
A909-1013	1123	A1015-YFA	2023	A1246V	2023	A9218	1122	A610074-1	2023	A6317567(,25C1815GR)	2009	A7246653(,151554)	1122
A909-1014	1123	A1015FA	2023	A1314	2023	A9228-3	1122	A610083-1	2023	A6317581	2009	A7246700	1122
A909-1017	1123	A1015G	2023	A1341	2030	A10105	1104	A610083-2	2023	A6317581(,25C1815-BL)	2009	A7246703	1122
A909-1018	1104	A1015GR	2023	A1379	1617	A10113	1104	A610083-3	2023	A6317581(,25C1815-BL)	2009	A7246711(,151555(TV))	1122
A909-1019	1104	A1015GR(JAPAN)	2023	A1380	1617	A10118	1104	A610083-4	2023	A6317900	2055	A7246711(,151555(TV))	1122
A909-27125-160	2016	A1015O	2023	A1412-1	1617	A10164	1104	A610110-1	2023	A6317901	2055	A7246727	1122
A916-31025-58	2016	A1015Y	2023	A1418	2016	A10165	1104	A610120-1	2023	A6319302(,25C1959-Y)	2009	A7246703	1122
A921-59B	2016	A1015Y(JAPAN)	2023	A1460	2016	A10169	1104	A631790L	2055	A6319300	2009	A7246711(,151555(TV))	1122
A921-62B	2016	A1015Y(KOREA)	2023	A1462	2016	A11744	2035	A650232E	2023	A6319302	2009	A7246711(,151555(TV))	1122
A921-67B	2016	A1016	2023	A1472-19	1617	A11745	2035	A650255G	2023	A6319302(,25C1959-Y)	2009	A7246727	1122
A921-64B	2016	A1016K	2023	A1518	2016	A12594	2023	A650238A	2023	A6319302(,25C1959-Y)	2009	A7246703	1122
A921-70B	2023	A1023	2023	A1519	2016	A-12791	2020	A650372D	2023	A6319302	2009	A7246711(,151555(TV))	1122
A927	2023	A1023P	2023	A1520	2016	A12880	2023	A650993F	2023	A6321241	2009	A7283550	1122
A929	2023	A1023Q	2023	A1521	2016	A20371	1123	A650925H	2023	A6333731	2058	A7286100	561
A929G	2023	A1025D	2023	A1558-17	2023	A20372	1617	A670720K	2009	A6502380	2023	A7286107	561
A929H	2023	A1025E	2023	A-1567	1617	A22008	2023	A670722D	2009	A6509120	2023	A7286120	561
A930	2023	A1026	2023	A1567	1617	A24015	1122	A670729B	2009	A6509121	2023	A7287500	563
A933	2023	A1026(2S)	2023	A1567-1	1617	A24100	1617	A673351K	2009	A6509121	2023	A7287513	563
A933AQ	2023	A1027(2S)	2023	A1844-17	2023	A30270	2023	A673354K	2009	(,25A562TM-O)	2023	A7509201	1104
A933AR	2023	A1027R	2023	A-1854-0M92-1	1617	A30290	2023	A673355H	2009	A6509140	2023	A7509201	1104
A933Q	2023	A1028	2043	A1867-17	2023	A36508	1123	A673355K	2009	A6509141	2023	A7509201	1104
A933Q(JAPAN)	2023	A1029	2023	A1946	1704	A36539	563	A675419H	2016	A6509141	2023	A7509201	1104
A933QY	2023	A1029H	2023	A2057A2-198	2023	A41440	2023	A701584-00	2023	(,25A562TM-YFA)	2023	A7509201	1104
A933R	2023	A1029C	2023	A2057B2-115	2016	A59625-1	2023	A701589-00	2023	A6532300	2023	A7509201	1104
A933R(JAPAN)	2023	A1029D	2023	A2057B106-12	2023	A59625-2	2023	A711002	565	A6532921	2023	A7509201	1104
A933S	2023	A1030	2023	A2057B108-6	2023	A59625-3	2023	A758011	1114	A6532941(,25A950-Y)	2023	A7509201	1102
A933S(JAPAN)	2023	A1030B	2023	A2332	2016	A59625-4	2023	A759500	1114	A6532941(,25A950-Y)	2023	A7509201	1102
A937	2023	A1030C	2023	A2410	2017	A59625-5	2023	A772738	2016	A6533730	2027	A7509201	1103
A937-1	1617	A1040	2023	A2411	1617	A59625-6	2023	A772739	2016	A6533730	2027	A7509201	1103
A937-3	1617	A1042	2043	A2412	1617	A59625-7	2023	A815199	2023	A6534020	2023	A7509201	1103
A937-Q	2023	A1045	2043	A2413	1617	A59625-8	2023	A815199-6	2023	A6534021	2023	A7509201	1103
A937R	2023	A1046	2043	A2418	2041	A59625-9	2023	A815211	2023	A6534021(,25A1015-O)	2023	A7509201	2023
A937R(JAPAN)	2023	A1048	2023	A2419	1123	A59625-10	2023	A815213	2023	A6534021(,25A1015-O)	2023	A7509201	1104
A941	2023	A1048-GR	2023	A2420	1123	A59625-11	2023	A815229	2023	A6534040	2023	A7509201	1104
A942	2023	A1048-O	2023	A2422	1104	A59625-12	2023	A815247	2023	A6534040(,25A1015-Y)	2023	A7509201	1123
A950	2023	A1048-O(JAPAN)	2023	A2423	1104	A71687-1	2023	A970246	2023	A6534045(,25A1015-Y)	2023	A7509201	1104
A950-0	2023	A1048GR	2023	A2428	2023	A75680	1104	A970248	2023	A6534045(,25A1015-Y)	2023	A7509201	1104
A950-O	2023	A1048GR(JAPAN)	2023	A2434	1617	A78331	2023	A970251	2023	A6534045(,25A1015-Y)	2023	A7509201	1104
A950-Y	2023	A1048O	2023	A2448	2023	A94037	2023	A970254	2023	A6534045(,25A1015-Y)	2023	A7509201	1104
A950FA	2023	A1049Y	2023	A2460	1104	A95227	2023	A984193	2023	A6534045	2023	A7509201	1104
A950Y	2023	A1049	2023	A2461	1104	A95231	2023	A1471114-1	2023	(,25A1015-YFA)	2023	A7509201	1122
A950Y(JAPAN)	2023	A1050	2023	A2464	2016	A112363	2041	A1473563-1	2023	A6534060	2023	A-11790169	1122
A950Y(KOREA)	2023	A1050H	2023	A2465	2016	A-113110	2023	A1473570-1	2023	A6534063	2023	A20030703-0702	2023
A952	2023	A1061E	2023	A2466	1617	A-113367(DIODE)	1122	A1473574-1	2023	A6610160	2027	A2114050	2023
A952(JAPAN)	2023	A1082D	2023	A2468	1617	A116078	2023	A1473590-1	2023	A6707244	2009	A2114051	2023
A952K	2023	A1082E	2023	A2469	1617	A-118038	1114	A1473591-1	2023	A6707298	2009	A2114550	2023
A952L	2023	A1083D	2023	A2470	1617	A118284	2023	A1473597-1	2023	A6708303	2009	A43023843	2041
A952L(JAPAN)	2023	A1083E	2023	A2471	2023	A119730	2023	A2006681-95	2016	A6708850	2009	A43023845	2023
A952M(JAPAN)	2023	A1086	2009	A2473	1123	A-120018	2030	A2057013-0004	2023	A6708861	2009	A43023845	1114
A953	2023	A1087	2009	A2474	562	A-120077	563	A2057013-0701	2023	A6708871	2009	A86052402	2041
A954	2023	A1090	2023	A2476	1123	A-120125(PWR.RECT.)	1122	A2057013-0702	2023	A6708871(,25C388ATM)	2009	A86052402	2041
A9570	2023	A1092	2023	A2479	2016	A-120125(PWR.RECT.)	1114	A2057013-0703	2023	A6708871(,25C388ATM)	2009	A86052402	2041
A973	2023	A1100	2023	A2480	2016	A-120278	1617	A2057013-0704	2023	A6708871(,25C388ATM)	2009	AA-07089	1617
A978	2023	A1100D	2023	A2481	1104	A-120327	2041	A2057013-0705	2023	A6708871(,25C388ATM)	2009	AA-07089	1617
A980	2043	A1100F	2023	A2485	1104	A-120417	2023	A2498512	2023	A6733280	2016	AA100	1104
A981	2043	A1100L	2023	A2498	2016	A121467	2023	A3011112	2030	A6733340	2009	AA101	1067
A982	2043	A1109	2016	A2499	1617	A121659	2023	A3115621	1102	A6733560	2009	AA102	1067
A984	2023	A1115	2023	A2652-919	2035	A124047	2023	A3115690	1104	A6734592	2009	AA107	1067
A984E	2023	A1115-E	2023	A2746	2016	A124623	2016	A5010005	1122	A6734592	2009	AA108	1067
A984K	2023	A1115-F	2023	A2798	2023	A124624	2016	A5320111	2023	A6771373	2016	AA109	1067
A984K(JAPAN)	2023	A1115E	2023	A3513	2023	A124735	2023	A5768475	1104	A6823565	2020	AA1	

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AA113	1067	AD10	1104	AM040	1104	AMX2503	2020	AR17GREY	2020	AS2	1104	AT404	1617
AA116	1123	AD29	1114	AM050	1104	AMX3583	2016	AR19	1104	AS-3	1104	AT405	1617
AA114(SRC)	1067	AD30	1122	AM060	1104	AMX3584	1606	AR20	1104	AS3	1104	AT406	1617
AA117	1123	AD50	1104	AM06100010	1122	AMX3615	1002	AR21	1104	AS3A	1104	AT407	1617
AA118	1123	AD100	1104	AM06200014	1104	AMX3799	2043	AR22	1104	AS3B	1104	AT410	2023
AA118P	1123	AD100(DIODE)	1122	AM06200017	1123	AMX3867	2520	AR-22(DIO)	1104	AS3C	1143	AT410-1	2023
AA119	1123	AD110A	1122	AM06200065	1114	AMX3868	2521	AR22(RECTIFIER)	1104	AS3D	1144	AT412	2023
AA119P	1123	AD150(DIODE)	1122	AM3	1104	AMX4178	2009	AR-22(XSTR)	2020	AS-4	1104	AT412-1	2023
AA120	1123	AD200	1104	AM13	1104	AMX4200	1712	AR23	1114	AS4	1104	AT412	2023
AA121	1123	AD200(DIODE)	1122	AM23	1104	AMX4200(LM339)	1712	AR-23(DIO)	1114	AS-5	1104	AT413-1	2023
AA123	1123	AD411	1122	AM-38	1104	AMX4258	007	AR-23(XSTR)	2027	AS5	1104	AT414	2023
AA130	1123	AD4001	1104	AM-33	1104	AMX4258(.741C)	007	AR-24	1114	AS6	1104	AT414-1	2023
AA131	1123	AD4902	1114	AM43	1104	AMX4262	1617	AR24	1114	AS11	1104	AT415	2023
AA132	1123	AD4003	1114	AM53	1104	AMX4330	2023	AR24(PHILCO)	2017	AS-16	1104	AT415-1	2023
AA134	1123	AD4004	1114	AM62	1104	AMX4301	2068	AR24(XSTR)	2020	AS-15	1104	AT416	2023
AA135	1123	AD4005	1114	AM63	1104	AMX4577	1771	AR24RED	2020	AS15	1104	AT416-1	2023
AA136	1123	AD4006	1114	AM65	1104	AMX4661	038	AR-25	2027	ASY70-V	1617	AT417	2023
AA137	1123	AD4007	1114	AM66	1104	AN-1	1104	AR25(G)	2027	ASZ12	563	AT417-1	2023
AA138	1123	ADX0214	561	AM300	1122	AN78M05	1770	AR27GREEN	2027	ASZ15	564	AT418	2023
AA139	1123	ADX1148	1104	AM300A	1122	AN78M05LB	1770	AR28	2020	AT0017	2009	AT418-1	2023
AA140	1123	ADX1152	1122	AM301	1122	AN78M12	1771	AR28RED	2020	AT0025	2009	AT419	2023
AA142	1123	ADX1364	1122	AM301A	1122	AN78M12(1B)	1771	AR-28	2020	AT0025A	2009	AT419-1	2023
AA143	1123	ADX1474	1143	AM302	1122	AN78M12LB	1771	AR30	2020	AT0045	2009	AT420	1617
AA143S	1123	AE1A	1114	AM302A	1122	AN78M15	1772	AR35	2020	AT-7	2020	AT421	1617
AA144	1123	AE1B	1114	AM303	1122	AN78M15LB	1772	AR37GREEN	2027	AT-10	2041	AT422	1617
AA200	1104	AE1C	1114	AM303A	1122	AN1741	007	AR38	2020	AT-11	2020	AT423	1617
AA210	1123	AE1D	1114	AM304	1122	AN6352	038	AR38RED	2020	AT-12	2030	AT424	1617
AA218	1123	AE1E	1114	AM304A	1122	AN6552	038	AR44	2027	AT12	2030	AT425	1617
AA300	1104	AE1F	1114	AM305	1122	AN6553	038	AR107	1617	AT-12(PHILCO)	2030	AT426	1617
AA400	1104	AE1G	1114	AM305A	1122	AN6558	038	AR108	1617	AT310	2016	AT427	1617
AA500	1104	AE3A	1141	AM306	1122	AN6570	007	AR-200	1617	AT311	2016	AT430	2023
AA600	1104	AE3B	1143	AM306A	1122	AN6912	1712	AR200	2016	AT312	2016	AT430-1	2023
AA779	1123	AE3C	1143	AM307	1122	AN7005	1770	AR200(W)	2009	AT313	2016	AT431	2023
AA800	1114	AE3D	1144	AM307A	1122	AN7612	1771	AR200W	2016	AT314	2016	AT431-1	2023
AA1000	1114	AE10	1122	AM308	1122	AND104R	023	AR200WHITE	2009	AT315	2016	AT432	2023
AA120	1123	AE30	1122	AM308A	1122	AND123R	026	AR-201	1617	AT316	2016	AT432-1	2023
AA14	1123	AE50	1122	AM324D	1711	AO4092	1104	AR201	2016	AT318	2016	AT433	2023
AA115	1123	AE100	1122	AM324N	1711	AO4092A	1104	AR201(Y)	2009	AT319	2016	AT433-1	2023
AA118	1123	AE150	1122	AM405	1104	AO4092B	1104	AR201Y	2016	AT321	2016	AT434	2023
AA122	1123	AE200	1122	AM410	1104	AO4093	1104	AR201YELLOW	2009	AT322	2016	AT434-1	2023
AA127	1123	AE920	703	AM415	1104	AO4093A	1104	AR-202	1617	AT323	2016	AT435	2023
AA130	1123	AE699	2023	AM420	1104	AO4093A	1104	AR202	2016	AT324	2016	AT435-1	2023
AA133	1123	AF3570	2023	AM425	1104	AO4166-2	564	AR202G	2016	AT325	2016	AT436	2023
AA146	1123	AF3590	2023	AM430	1104	AO4210A	1104	AR202GREEN	2009	AT326	2016	AT436-1	2023
AA153	1123	AF21490	2022	AM435	1104	AO4212-3	1104	AR203	2020	AT327	2016	AT437	2023
AA154	1123	AF3527	2009	AM440	1104	AO4212-B	1104	AR203R	2030	AT328	2016	AT437-1	2023
AA1139	1123	AF351170F	2023	AM445	1104	AO4233	1104	AR204	1617	AT329	2016	AT438	2023
AA170	1123	AFS-160-1017	1123	AM450	1104	AO4234-2	562	AR205	1617	AT330	2016	AT438-1	2023
AA118	1123	AFS-160-1020	1123	AM460	1104	AO4716	1104	AR206	1617	AT331	2023	AT440	2030
AA118D	1104	AFS-160-1021	1104	AM620	1122	AO4727	1101	AR208	1617	AT331A	2023	AT441	2030
AB1-9	562	AFS-760-1017	1123	AM620A	1122	AO4901A	1104	AR209	2016	AT332	2023	AT442	2030
AB50	1114	AFS24226	2023	AM626	1122	AP4.7A	565	AR210	2016	AT332A	2023	AT443	2030
AB100	1114	AFT0019M	2023	AM626A	1122	AP4.7B	565	AR211	2016	AT333	2023	AT444	2030
AB200	1114	AFT052	2023	AM632	1122	AP6.0A	561	AR212	2016	AT335	1617	AT445	2030
AB300	1114	AFT1341	2023	AM632A	1122	AP6.0B	561	AR213	2016	AT335A	2023	AT446	2030
AB400	1114	AFT1746	2023	AM2764ADC	1251	AP6.2A	561	AR213(V)	2016	AT336	1617	AT451	2023
AB500	1114	AG30	1122	AM3235	2041	AP6.2B	561	AR213V	2016	AT337	1617	AT451-1	2023
AB600	1114	AG100D	1104	AM161011H	2009	AP9.1A	562	AR213VIOLET	2016	AT338	2016	AT452	2023
AB700	1114	AG100G	1104	AM161011J	2009	AP9.1B	562	AR218	2058	AT339	2030	AT452-1	2023
AB800	1114	AG100J	1104	AM161015H	2023	AP12.0A	563	AR218(RO)	2016	AT340	2016	AT453	2023
AB1000	1114	AH905	1114	AM161016H	2009	AP12.0B	563	AR218O	2016	AT341	2016	AT453-1	2023
AB4164ANP-12	2506	AH810	1114	AM161038H	2009	AP15.0A	564	AR219	2016	AT342	2016	AT454	2023
AB4164ANP-15	2506	AH814	1114	AM161039H	2009	AP15.0B	564	AR219(Y)	2016	AT343	2016	AT454-1	2023
AC03BGML	1000	AH015	1114	AM161043H	2027	APD4.7A	563	AR219YY	2016	AT344	2016	AT455	2023
AC03BGMR	1000	AH1005	1114	AM161050H	2023	APD4.7B	563	AR220	2016	AT345	2016	AT455-1	2023
AC03DGML	1000	AH1010	1114	AM162005A	1104	APD5.1A	565	AR220(GY)	2016	AT346	2016	AT470	2030
AC03DGMR	1000	AH1015	1114	AMF104	2041	APD5.1B	565	AR220GREEN	2016	AT347	1617	AT471	2030
AC08BGML	1000	AIE	2016	AMF105	2041	APD6.2A	561	AR220GY	2016	AT348	1617	AT472	2030
AC10BGML	1000	AJ5	1104	AMF115	2041	APD6.2B	561	AR220YELLOW	2016	AT349	1617	AT473	2030
AC10BGMR	1000	AJ10	1104	AMF116	2041	APD9.1A	562	AR221	2016	AT353	1617	AT474	2030
AC30	1114	AJ15	1104	AMF117	2041	APD9.1B	562	AR222	2016	AT354	1617	AT475	2030
AC50	1114	AJ20	1104	AMF117A	2041	APD12.0A	563	AR222(BY)	2016	AT355	2016	AT476	2030
AC50(DIODE)	1122	AJ25	1104	AMF118	2041	APD12.0B	563	AR222BLUE	2016	AT356	2016	AT477	2030
AC50(RECTIFIER)	1141	AJ30	1104	AMF118A	2041	APD15.0A	544	AR222GY	2016	AT357	1617	AT478	2030
AC100	1114	AJ35	1104	AMF119	2041	APD15.0B	544	AR222YELLOW	2016	AT380	2030	AT479	2030
AC200	1114	AJ40	1104	AMF119A	2041	APD3595	1102	AR224	2016	AT381	2030	AT490	1617
AC300	1144	AJ50	1104	AMF120	2041	AQ2	2030	AR224WHITE	2016	AT382	2030	AT491	1617
AC400	1144	AJ60	1104	AMF120A	2041	AQ2(PHILCO)	1104	AR224YELLOW	2016	AT383	2030	AT492	1617
AC9082	2023	AK261	1123	AMF-121	2041	AQ3	2030	AR244	2027	AT384	2030	AT493	1617
AC9083	2023	ALS-8922	1617	AMF201	2041	AQ3(PHILCO)	1104	AR303	2009	AT385	2030	AT494	1617
AC9084	2023	AM	2030	AMF210	2041	AQ4	1617	AR306	1617	AT386	2030	AT495	1617
AC9085	2023	AM005	1104	AMF210A	2041	AQ5	2030	AR306BLUE	2030	AT387	2030	AT496	1617
ACDC7000-1	2023	AM010	1104	AM-G-5	1104	AQ6	1617	AR306ORANGE	2030	AT388	2030	AT-1954	2041
ACF83-1007	1123	AM020	1104	AM-G-3A	1114	AR7C	1104	AR313	2016	AT400	1617	AT1854	2041
ACF83-1008	1104	AM025	1104	AM-G-3C	1114	AR13	2041	AR343	2009	AT401	1617	AT026	2041
ACR16-107	1123	AM030	1104	AM-G-22	1104	AR16	1104	AR343	1104	AT402	1617	ATC-58-3	1114
ACR910-168	1104	AM035	1104	AMX3144	1740	AR-17	2020	AS-1	1104	AT403	1617	ATC-58-4	2030

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ATC-TR-7	2030	B1J	2032	BAA1	1184	BAK5	1114	B223-30	1114	B532	2043	B744A	2023
ATC-TR-13	2630	B1K	1817	BAA5	1104	B6F9	1114	B223-40	1114	B531	2043	B744B	2023
ATC-TR-15	2041	B1M1	1114	B4A9	1104	B6M1	1114	B223-50	1114	B591-O	2043	B744C	2023
ATC-TR-19	2020	B1KE	1114	B4B1	1104	B6M5	1104	B223-60	1114	B531-R	2043	B744D	2023
AU9012	563	B1KF	1114	B4B5	1104	B6M9	1104	B238C18	2009	B531-Y	2043	B745	2023
AV0000105-0	1122	B1M1	1114	B4B9	1104	B6P	2009	B250C7K45	1104	B532(2S)	2043	B745A	2023
AV5	563	B1M5	1114	B4C1	1104	B7A1	1114	B250C75	1104	B532S	2043	B745A5	2023
AV2012	563	B1M9	1114	B4C5	1104	B7A5	1104	B250C75K4	1104	B542	2023	B745S	2023
AV2015	564	B1N	1617	B4C9	1104	B7A9	1114	B250C75K5	1104	B542D	2023	B745T	2023
AW01	563	B1U	2020	B4D1	1104	B7B1	1114	B250C75K41	1104	B555(2S)	2043	B774	2023
AW01-0	561	B1W	1617	B4D5	1104	B7B5	1104	B250C75K45	1104	B555-O	2043	B774Q	2023
AW01-0A	561	B2	2014	B4D9	1104	B7B9	1104	B250C100	1104	B555-R	2043	B774R	2023
AW01-0B	562	B1A	2023	B4E1	1104	B7C1	1114	B250C100TD	1114	B555R	2043	B774S	2023
AW01-0F	567	B1A1	1104	B4E5	1104	B7C5	1114	B250C125	1104	B556	2043	B774S(JAPAN)	2023
AW01-0F	561	B1A5	1104	B4E9	1104	B7C9	1104	B250C125K4	1104	B556-O	2043	B774T	2023
AW01-0F	561	B1A9	1104	B4F1	1104	B7D1	1104	B250C125N2	1104	B556-R	2043	B808	2023
AW01-9V	562	B2B1	1104	B4F5	1104	B7D5	1114	B250C125X4	1104	B557	2043	B808F	2023
AW-01-12	563	B2B5	1104	B4F9	1104	B7D9	1114	B250C150	1104	B557-O	2043	B808G1	2023
AW01-12	563	B2B9	1104	B4G1	1104	B7E1	1114	B250C150K4	1104	B557-R	2043	B856B	2027
AW-01-12C	563	B2C1	1104	B4G5	1104	B7E5	1114	B274(SYLVANIA)	2030	B558	2043	B856C	2027
AW01-12C	563	B2C5	1104	B4G9	1104	B7E9	1114	B285-5	1171	B558-O	2043	B1001R	081
AW01-12V	562	B2C9	1104	B4H1	1104	B7F1	1114	B285-10	1171	B558-R	2043	B1001	1164
AW01-15	564	B2D	1617	B4H5	1114	B7F5	1114	B285-30	1171	B557-10	1112	B1003	1102
AW02-05	565	B1D1	1104	B4H9	1104	B7F9	1114	B285-40	1171	B558	2023	B1004	1102
AW07	562	B2D5	1104	B4K1	1114	B7G1	1114	B294	1104	B558E	2023	B-1008	1617
AW0113	563	B2D9	1104	B4K5	1114	B7G5	1114	B376-5	1173	B598F	2023	B-1421	1617
AX12	563	B2D753A	561	B4K9	1114	B7G9	1114	B376-10	1173	B601-1011	1123	B-1426	2023
AX91770	2016	B2D757A	562	B4M1	1114	B7H1	1114	B376-20	1173	B601-1012	1104	B-1433	1617
AY-3-8910	1787	B2D759A	563	B4M5	1114	B7H5	1114	B376-30	1173	B611	2043	B-1501U	1104
AY-3-8910A	1787	B2E	2023	B4M9	1114	B7H9	1114	B376-40	1173	B611A	2043	B-1599	1122
AZ4.7	565	B2E1	1104	B5-31S	1067	B7K1	1114	B424(2S)	2027	B640	2023	B-1664	1617
AZ4.1	565	B2E5	1104	B5A1	1104	B7K5	1104	B424-O	2027	B641	2023	B-1702	1122
AZ4.3	561	B2E9	1104	B5A5	1104	B7K9	1104	B424-ONG	2027	B641-G(JAPAN)	2023	B-1823	2026
AZ4.1	562	B2F1	1104	B5A9	1104	B7M1	1104	B424-R(2S)	2027	B641-R	2023	B-1847	1617
AZ12	563	B2F5	1104	B5B1	1104	B7M5	1104	B424-RED	2027	B641-E	2023	B-1872	1617
AZ15	564	B2F9	1104	B5B5	1104	B7M9	1104	B434-Y(2S)	2027	B641P	2023	B-1881U	1104
AZ759	563	B2G	2023	B5B9	1104	B8A5	1104	B434-YEL	2027	B641Q	2023	B-1882U	1104
AZ759A	563	B2G1	1104	B5C1	1104	B9TUI	2035	B434G-O	2027	B641R	2023	B-1910	2016
AZ963	563	B2G5	1104	B5C5	1104	B12(DIO)	1102	B434G-R	2027	B641S	2023	B-2090	562
AZ963A	563	B2G9	1104	B5C9	1104	B12(RECT)	1102	B434G-Y	2027	B642	2023	B-2404C	1104
AZ963B	563	B2H1	1114	B5D1	1104	B12(RECT)	1104	B434R	2027	B642-O	2023	B-2404B	1104
AZ965	564	B2K5	1114	B5D5	1104	B12-O2	1104	B435(2S)	2027	B642-Q	2023	B-2404C	1104
AZ965A	564	B2H9	1114	B5D9	1104	B12-O2K	1102	B435-O(2S)	2027	B642-Q(JAPAN)	2023	B-2404B	1104
AZ965B	564	B2K	2017	B5E	2020	B12-O2RK	1102	B435-O	2027	B642-R	2023	B-2404D	1104
AZ5	2016	B2K1	1114	B5E1	1104	B12-1A21	1617	B435-ORG	2027	B642-R(JAPAN)	2023	B-2404S	2026
AZ7	2016	B2K5	1114	B5E5	1104	B24-06B	1114	B435-R(2S)	2027	B642P	2023	B-3046	2020
B004B	1171	B2K9	1114	B5E9	1104	B24-06D	1114	B435-RED	2027	B642Q	2023	B-3466	2017
B004E	1173	B2M1	1114	B5F1	1104	B-28	1123	B435-Y(2S)	2027	B642R	2023	B-3531	2020
B01-02	1104	B2M5	1114	B5F5	1104	B-30	1123	B435-YEL	2027	B642S	2023	B-3533	2017
B01-2	1122	B2M9	1114	B5F9	1104	B30	1123	B435G-O	2027	B643	2023	B-3537	2017
B050	562	B2Z	2016	B5G1	1104	B30B250KY	1173	B435G-R	2027	B643-O	2023	B-3538	2017
B0102V	1102	B3	2016	B5G5	1104	B30C250	1104	B435G-Y	2027	B643-Q	2023	B-3539	2020
B0102V	1102	B3A1	1104	B5G9	1104	B30C250-1	1104	B435O	2027	B643-Q(JAPAN)	2023	B-3540	2017
B0319200	703	B3A5	1104	B5H1	1114	B30C350-1	1104	B429R	2027	B643-R	2023	B-3541	2017
B0320500	093	B3A9	1104	B5H5	1114	B30C500	1104	B439RY	2027	B643-R(JAPAN)	2023	B-3542	2017
B0350602	038	B3B1	1104	B5H9	1114	B30C600	1104	B435Y	2027	B643P	2023	B-3543	2020
B0470130	2413	B3B5	1104	B5K1	1114	B30C600CB	1104	B442-5	1171	B643Q	2023	B-3544	2020
B0470662	2466	B3B9	1104	B5K5	1114	B30C1000	1171	B442-10	1171	B643QR5	2023	B-3547	2020
B1A1	1104	B3C1	1104	B5K9	1114	B-30P	1123	B442-30	1173	B643R	2023	B-3548	2020
B1A5	1104	B3C5	1104	B5M1	1114	B-31	1104	B442-40	1173	B643S	2023	B-3550	2020
B1A9	1164	B3C9	1104	B5M5	1114	B31	1104	B507(2S)	2027	B644	2023	B-3551	2020
B15	1104	B3D1	1104	B5M9	1114	B35C600	1104	B507E	2027	B644-Q	2023	B-3570	2017
B1B1	1104	B3D5	1104	B6A1	1114	B41-04	1104	B508(2S)	2027	B644-R	2023	B-3576	2017
B1B5	1104	B3D9	1104	B6A5	1114	B42-04	1104	B509(2S)	2027	B644-R(JAPAN)	2023	B-3577	2020
B1B9	1104	B3D753A	561	B6A9	1114	B43-04	1104	B511(2S)	2027	B644Q	2023	B-3578	2020
B1C1	1104	B3D757A	562	B6B1	1114	B-46-110	1122	B511-1(2S)	2027	B644QR	2023	B-3580	2020
B1C5	1104	B3D759A	563	B6B5	1114	B51	1104	B511C(2S)	2027	B644R	2023	B-3584	2020
B1C9	1104	B3E1	1104	B6B9	1114	B56-15	1143	B511D(2S)	2027	B644S	2023	B-3585	2020
B1D	2020	B3E5	1104	B6C1	1114	B56-33	1143	B511E	2027	B654-5	1173	B-3586	2020
B1D1	1104	B3E9	1104	B6C5	1114	B60C300	1104	B512(2S)	2027	B654-10	1173	B-3580	2020
B1D5	1104	B3F1	1104	B6C9	1114	B-66	2800	B512-O	2027	B654-20	1173	B-3589	2020
B1D9	1104	B3F5	1104	B6D1	1114	B66X0033-02	1104	B512-O	2027	B654-30	1173	B-3606	2017
B1E1	1104	B3F9	1104	B6D5	1114	B66X0041-001	1104	B512A(2S)	2027	B654-40	1173	B-3607	2017
B1E5	1104	B3G1	1104	B6D9	1114	B61-604	1104	B512P	2027	B622X13	1123	B-3608	2017
B1E9	1104	B3G5	1104	B6E1	1114	B172-5	1114	B513(2S)	2027	B696	2043	B-3609	2017
B1F1	1104	B3G9	1104	B6E5	1114	B172-10	1114	B513A(2S)	2027	B698	2023	B-3610	2017
B1F5	1104	B3H1	1114	B6E9	1114	B172-20	1114	B513P	2027	B698F	2023	B-3611	2017
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B1G1	1104	B3H9	1114	B6F5	1114	B172-40	1114	B513R	2027	B699Q	2027	B-3613	2017
B1G5	1104	B3K1	1114	B6F9	1114	B172-50	1114	B514(2S)	2027	B709	2023	B-3614	2017
B1G9	1104	B3K5	1114	B6G1	1114	B172-60	1114	B515(2S)	2027	B709A	2023	B-3744	2020
B1H	2016	B3K9	1114	B6G5	1114	B172-70	1114	B520	2043	B711	2023	B-3747	2017
B1H(DIGIT)	1304	B3M1	1114	B6G9	1114	B172-80	1114	B520-1	2043	B726	2023	B-3748	2017
B1H(2STR)	2016	B3M5	1114	B6H1	1114	B172-90	1114	B520-2	2043	B726R	2023	B-3750	2017
B1H1	1114	B3M9	1114	B6H5	1114	B172-100	1114	B521	2027	B726S	2023	B-3802	1164
B1H5	1114	B3P	1122	B6H9	1114	B208C40	1104	B524	2027	B726T	2023	B-3804	1164
B1H9	1114	B4	2216	B6K1	1114	B223-10	1114	B529	2027	B744	2023	B-3804V	1164

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B4402	1104	B170011	2041	BA219	1122	BAY46	1103	BC131B	2009	BC169	2009	BC190B	1617
B4406	1104	B170012	2041	BA243A	1122	BA752	1122	BC132	1617	BC-169-C	2009	BC192	2023
B5000	2020	B170013	2041	BA243S	1122	BA764	1104	BC132A	2009	BC169A	2009	BC194	2016
B5000-GRN	2020	B170014	2041	BA283	1122	BA767	1122	BC134	1617	BC-169B	2009	BC194B	2016
B5000-RED	2020	B170015	2041	BA316	1122	BA768	1122	BC135	1617	BC169B	2009	BC195	2016
B5000-YEL	2020	B170016	2041	BA317	1122	BA772	1122	BC135A	2016	BC-169C	2009	BC195CD	2016
B5001	2017	B170018	2041	BA517	1122	BA773	1122	BC136	1617	BC169C	2009	BC196	2023
B5001-GRN	2020	B170019	2041	BA751AA	1104	BA786	1104	BC137	2023	BC170	2016	BC196A	2023
B5001-ORG	2020	B170020	2041	BA751BA	1104	BA787	1104	BC-138	2030	BC170A	2016	BC196B	2023
B5001-RED	2020	B170021	2041	BA751CA	1104	BA790	1114	BC138	2030	BC170B	2016	BC196V1	2023
B5001-YEL	2020	B170022	2041	BA751DA	1104	BB1A	1104	BC-140	2030	BC170C	2016	BC197	1617
B5002	2020	B170024	2041	BA751EA	1104	BB-2	1104	BC140	2030	BC171	2009	BC197A	1617
B5020	2041	B170025	2041	BA751FA	1104	BB2A184	1104	BC140-6	2030	BC171A	2009	BC197B	1617
B5021	2020	B1045494P1	1101	BA751GA	1104	BB31	1104	BC140-10	2030	BC171B	2009	BC198	1617
B5022	2020	B7978850	1104	BA751HA	1104	BB3K	1104	BC140-16	2030	BC172	2009	BC198A	2009
B5031	2020	BA-07001	1123	BA751KA	1104	BB-4	1104	BC140-25	2030	BC172A	2009	BC198B	2016
B5032	2020	BA-07007	1104	BA751MA	1104	BB4	1104	BC-140A	2030	BC172B	2009	BC198C	2009
B-6001	2035	BA5A5	1101	BA751PA	1114	BB4-FC	1104	BC-140B	2030	BC172C	2009	BC199	1617
B-6002	564	BA67	1617	BA751RA	1114	BB4T	1104	BC-140C	2030	BC173	2016	BC199B	2016
B9426	2016	BA71	1617	BA751TA	1114	BB-6	1104	BC140C	2030	BC173,B	2030	BC199C	2009
B17307	2041	BA100	1104	BA751VA	1114	BB6	1104	BC-140D	2030	BC173A	2016	BC200	2023
B36564	1104	BA102AA	1104	BA4558	038	BB-8	1104	BC140D	2030	BC173B	2016	BC200G	2023
B-75583-102	1617	BA102BA	1104	BA4558DX	038	BB10	1104	BC-141	2030	BC173C	2016	BC200R	2023
B8104	1141	BA102CA	1104	BAC-SHIMI	1122	BB71	1617	BC141	2030	BC174	2030	BC200Y	2023
B143000	2017	BA102DA	1104	BACSHIMI	1122	BB100	1101	BC141-06	2030	BC174A	2030	BC201	2023
B143001	2017	BA102EA	1104	BACSIM1	1122	BB107	1104	BC141-6	2030	BC174B	2030	BC202	2023
B143003	2017	BA102FA	1104	BAN62	1122	BB-109	1104	BC141-10	2030	BC175	2009	BC203	2023
B143004	2020	BA102GA	1104	BA511	1104	BB117	1104	BC141-16	2030	BC177	2023	BC204	2023
B143009	2017	BA102HA	1104	BAV17	1122	BB127	1104	BC141-25	2030	BC177A	2023	BC204-6	2023
B143010	2017	BA102KA	1104	BAV18	1122	BB1A	1104	BC-142	2030	BC177B	2023	BC204A	2023
B143011	2020	BA102MA	1104	BAV19	1122	BBY31	1122	BC142	2030	BC177V	2023	BC204B	2023
B143012	2020	BA102PA	1114	BAV20	1122	BBY40	1122	BC142-10	2030	BC177V1	2023	BC204V	2023
B143015	2017	BA102RA	1114	BAV21	1122	BC17LB-1	2023	BC142-16	2030	BC178	2023	BC204V1	2023
B143016	2017	BA102TA	1114	BAV70	1104	BC45B	2009	BC144	2030	BC178A	2023	BC205	2023
B143018	2020	BA102VA	1114	BAV74	1101	BC-71	1617	BC146	2016	BC178B	2023	BC205A	2023
B143019	2020	BA104	1104	BAW10TF20	1122	BC71	1617	BC146G	2009	BC178C	2023	BC205B	2023
B143024	2017	BA105	1103	BAW11TF21	1122	BC103	2030	BC146R	2009	BC178D	2023	BC205C	2023
B143025	2017	BA108	1101	BAW12TF22	1122	BC103C	2030	BC146Y	2009	BC178E	2023	BC205V	2023
B143026	2020	BA114	1122	BAW13TF23	1122	BC107	1617	BC147	1617	BC178V-1	2023	BC205V1	2023
B143027	2020	BA119	1104	BAW16	1122	BC107A	1617	BC147A	1617	BC178V1	2023	BC205V1	2023
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B170000-B	2055	BA127	1104	BAW18	1122	BC107B	1617	BC148	1617	BC179A	2023	BC206A	2023
B170000-ORG	2041	BA128	1104	BAW24	1122	BC107BP	2009	BC-148A	1617	BC179B	2023	BC206B	2023
B170000-ORN	2041	BA129	1102	BAW25	1122	BC108	1617	BC148A	1617	BC179C	2023	BC206C	2023
B170000-R	2041	BA130	1101	BAW28	1104	BC108A	1617	BC-148B	1617	BC180	1617	BC-207	1104
B170000-RED	2041	BA132AA	1114	BAW32A	1122	BC108AP	2009	BC148B	1617	BC180B	1617	BC207	2009
B170000-Y	2041	BA132BA	1114	BAW32B	1122	BC-108B	1617	BC-148C	1617	BC181	2023	BC207A	2009
B170000BLK	2041	BA132CA	1114	BAW32C	1104	BC108B	1617	BC148C	1617	BC181A	2023	BC207B	2009
B170000BRN	2041	BA132DA	1114	BAW32D	1101	BC108BP	2009	BC149	1617	BC182	2009	BC208	2009
B170001	2041	BA132EA	1114	BAW32E	1101	BC108C	1617	BC149A	1617	BC182A	2009	BC208A	2009
B170001-B	2041	BA132FA	1114	BAW45	1122	BC108CP	2009	BC149B	1617	BC182AP	2009	BC208B	2009
B170001-BLK	2041	BA132GA	1114	BAW53	1122	BC109	1617	BC149C	1617	BC182BP	2009	BC208C	2009
B170001-BRN	2041	BA132HA	1114	BAW59	1122	BC-109B	1617	BC149G	1617	BC182K	1617	BC209	2009
B170001-O	2041	BA132KA	1114	BAW62	1122	BC109B	1617	BC150	2009	BC182KA	2016	BC209B	2009
B170001-ORG	2041	BA132MA	1114	BAW63A	1122	BC109BP	2009	BC151	2009	BC182KB	1617	BC209C	2009
B170001-R	2041	BA132PA	1114	BAW63B	1122	BC109C	1617	BC152	2009	BC182L	2009	BC210	2009
B170001-RED	2041	BA132RA	1114	BAW75	1122	BC109CP	2009	BC153	2023	BC182LA	2009	BC211	2030
B170001-Y	2041	BA132TA	1114	BAW76	1104	BC110	1617	BC154	2023	BC182P	2009	BC211A	2030
B170001BLK	2041	BA132VA	1114	BAW99	1122	BC111	2016	BC155	2016	BC183	2009	BC212	2023
B170001BRN	2041	BA133F	1114	BAX12	1104	BC112	2016	BC155A	2016	BC183A	2009	BC212A	2023
B170002	2041	BA136	1122	BAX-13	1122	BC113	1617	BC155B	2009	BC183AP	2009	BC212AP	2023
B170002-BLK	2041	BA136A	1141	BAX13	1122	BC114	1617	BC155C	2016	BC183B	2009	BC212B	2023
B170002-BRN	2041	BA-142-01	1104	BAX-16	1122	BC114TR	1617	BC156	2016	BC183BP	2009	BC212BP	2023
B170002-O	2041	BA142-01	1104	BAX16	1122	BC115	1617	BC156A	2016	BC183K	2016	BC212K	2023
B170002-ORG	2041	BA147	1122	BAX18	1104	BC116	2023	BC156B	2009	BC183KA	2016	BC212KA	2023
B170002-R	2041	BA153	1104	BAX18A	1104	BC116A	2023	BC156C	2016	BC183KB	1617	BC212KB	2023
B170002-RED	2041	BA154	1122	BAX28	1122	BC117	2030	BC157	2023	BC183KC	1617	BC212L	2023
B170002-Y	2041	BA164	1101	BAX30	1122	BC118	1617	BC157A	2023	BC183L	2016	BC212LA	2023
B170003	2041	BA166	1122	BAX74	1122	BC-119	2030	BC157B	2023	BC183LA	2009	BC212LB	2023
B170003-B	2055	BA167	1122	BAX87	1122	BC119	2030	BC158	2023	BC183LB	2009	BC212P	2023
B170003-O	2041	BA168	1122	BAX88TF11	1122	BC120	2030	BC158-1	2023	BC183P	2009	BC212V1	2023
B170003-R	2041	BA170	1122	BAX89A	1122	BC121	2016	BC158A	2023	BC184	2009	BC212V1	2023
B170003-Y	2041	BA172	1101	BAX91C7F102	1122	BC122	2016	BC158A-1	2023	BC184B	2009	BC213	2023
B170004	2041	BA174	1122	BAX95TF600	1122	BC123	2016	BC158B	2023	BC184BP	2009	BC213A	2023
B170004-B	2041	BA177	1122	BA715	1114	BC125	1617	BC158C	2023	BC184C	2009	BC213AP	2023
B170004-R	2041	BA178	1141	BAY16	1114	BC125A	1617	BC159	2023	BC184CP	2009	BC213B	2023
B170004-Y	2041	BA180	1101	BAY17	1122	BC125B	1617	BC159A	2023	BC184K	1617	BC213BP	2023
B170005	2041	BA181	1122	BAY18	1122	BC126	2023	BC159B	2023	BC184KB	1617	BC213K	2023
B170005-B	2041	BA187	1122	BAY19	1122	BC127	2016	BC159C	2023	BC184KC	1617	BC213KA	2023
B170005-O	2041	BA200	1122	BAY20	1122	BC128	2016	BC167	2009	BC184L	2016	BC213KB	2023
B170005-R	2041	BA201	1122	BAY21	1103	BC129	1617	BC-167-B	2009	BC184P	2009	BC213KC	2023
B170005-Y	2041	BA202	1122	BAY23	1114	BC129A	2009	BC167A	2009	BC185	1617	BC213L	2023
B170006	2041	BA203	1122	BAY31	1122	BC129B	2009	BC167B	2009	BC186	2023	BC213LA	2023
B170006-B	2055	BA208	2055	BAY36	1122	BC130	1617	BC168	2009	BC187	2023	BC213LB	2023
B170007	2041	BA216	1122	BAY41	1122	BC130A	2009	BC168A	2009	BC188	2016	BC213LC	2023
B170009	2041	BA217	1101	BAY44	1101	BC130B	2009	BC168B	2009	BC189	2016	BC213P	2023
B170010	2041	BA218	1101	BAY45	1102	BC131	1617	BC168C	2009	BC190	2009	BC214	2023

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BC214A	2023	BC258VI	2023	BC308C	2023	BC382C	2009	BC485B18	2023	BC547B	2009	BCW47A	2009
BC214B	2023	BC259	2023	BC309V1	2023	BC383	1617	BC485L	2023	BC547BP	2009	BCW47B	2009
BC214BP	2023	BC260	2023	BC308VI3	2023	BC383B	2009	BC405L5	2023	BC547C	2009	BCW48	2030
BC214CP	2023	BC260A	2023	BC308VII8	2023	BC383C	1617	BC485L18	2023	BC547VI	2009	BCW48A	2009
BC214K	2023	BC260B	2023	BC309	2023	BC384	1617	BC486	2023	BC547VIP	2009	BCW48B	2009
BC214KA	2023	BC260C	2023	BC309(ALGG)	2023	BC384B	2009	BC486-5	2023	BC548	2009	BCW48C	2009
BC214KB	2023	BC-261	2023	BC309(SIEG)	2023	BC384C	2016	BC486-18	2023	BC548A	2016	BCW49	2030
BC214KC	2023	BC261	2023	BC309-5	2023	BC385A	2023	BC486A	2023	BC548AP	2009	BCW49B	2009
BC214L	2023	BC261A	2023	BC309-18	2023	BC385B	2016	BC486A5	2023	BC548B	2009	BCW49C	2009
BC214LA	2023	BC261B	2023	BC309A	2023	BC386A	2016	BC486A18	2023	BC548BC	2009	BCW56	2023
BC214L	2023	BC261C	2023	BC309B	2023	BC386B	2016	BC486B	2023	BC548BP	2009	BCW56A	2023
BC214LC	2023	BC262	2023	BC309C	2023	BC400	2023	BC486B5	2023	BC548C	2009	BCW57	2023
BC214P	2023	BC262A	2023	BC310	2030	BC406	2023	BC486L	2023	BC548CP	2016	BCW57A	2023
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BC216B	2030	BC263	2023	BC317	2009	BC405A	2023	BC487-5	2023	BC549	2009	BCW58B	2023
BC220	1617	BC263A	2023	BC317A	2009	BC405B	2023	BC487-18	2023	BC549B	2009	BCW59	2023
BC221	2023	BC263B	2023	BC317B	2009	BC406B	2023	BC487A	2023	BC549BP	2009	BCW59A	2023
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BC223	2009	BC264A	2023	BC318A	2009	BC407A	1617	BC487A18	2023	BC549CP	2016	BCW60A	1617
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BC231B	2023	BC268	1617	BC320	2023	BC409	1617	BC487L18	2023	BC556	2023	BCW61	2023
BC232A	2009	BC269	1617	BC320A	2023	BC409B	2009	BC488	2023	BC556A	2023	BCW61BC	2023
BC232B	2009	BC270	1617	BC321	2023	BC409C	2009	BC488-5	2023	BC556B	2023	BCW61BD	2023
BC232M	2030	BC271	2016	BC321A	2023	BC413	2009	BC488-18	2023	BC556VI	2023	BCW61C	2023
BC233A	1617	BC280	1617	BC321B	2023	BC413B	2009	BC488A	2023	BC557	2023	BCW61D	2023
BC237	2009	BC280A	1617	BC322	2023	BC413BP	2009	BC488A5	2023	BC557A	2023	BCW62	2023
BC237(PHIN)	2016	BC280B	1617	BC322B	2023	BC413C	2009	BC488A18	2023	BC557B	2023	BCW62A	2023
BC237-18	2009	BC280C	1617	BC322C	2023	BC414	1617	BC488B	2023	BC557VI	2023	BCW63	2023
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BC237A5	2009	BC281A	2023	BC325	2023	BC414BP	2009	BC488B18	2023	BC558A	2023	BCW64A	2023
BC237A18	2009	BC281B	2023	BC325A	2023	BC414C	2009	BC488L	2023	BC558B	2023	BCW65A	2009
BC237B	2009	BC281C	2023	BC326	2023	BC415-6	2023	BC488L5	2023	BC558VI	2023	BCW65B	2009
BC237B5	2009	BC282	2009	BC326A	2023	BC415A	2023	BC488L18	2023	BC559	2023	BCW69	2023
BC237B18	2009	BC283	2023	BC327	2023	BC415AP	2023	BC489	2023	BC559A	2023	BCW71	2016
BC238	2009	BC284	2009	BC327(25)	2023	BC415B	2023	BC489-5	2023	BC559B	2023	BCW71R	2016
BC238(PHIN)	2016	BC284A	2009	BC327-5	2023	BC415BP	2023	BC489-18	2023	BC560	2023	BCW72	2016
BC238-5	2009	BC284B	2009	BC327-18	2023	BC415C	2023	BC489A	2023	BC560A	2023	BCW72R	2016
BC238-16	2023	BC285	1617	BC327AP	2023	BC416-6	2023	BC489A5	2023	BC560C	2023	BCW73	1617
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BC239	2009	BC291D	2023	BC337-18	2009	BC419A	2023	BC490A	2023	BC560PCM	2023	BCW80-16	2023
BC239(PHIN)	2016	BC292	2023	BC337-25	2009	BC429	2030	BC490A5	2023	BC582	2009	BCW83	1617
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BC239B	2016	BC297	2023	BC337CP	2009	BC442	2016	BC490L	2023	BC583A	2009	BCW88	2023
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BC239C	2009	BC301	2030	BC338-16	2009	BC443-18	2023	BC507A	1617	BC682	2030	BCW93A	2023
BC250	2023	BC301-4	2030	BC338-25	2009	BC446	2023	BC507B	1617	BC737	2016	BCW93B	2023
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BC250B	2023	BC301-6	2030	BC340-6	2030	BC446-18	2023	BC508B	1617	BC-1072	1617	BCW93KB	2023
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BC251C	2023	BC307	2023	BC341-10	2030	BC449-5	2023	BC510C	2016	BC1478	1617	BCW94KA	2009
BC252	2023	BC307(ALGG)	2023	BC350	2023	BC450-18	2023	BC512	2023	BC-1690	1617	BCW94KB	2009
BC252A	2023	BC307(PHIN)	2023	BC350A	2023	BC452	2009	BC512A	2023	BC6300	2016	BCW94KC	2009
BC252B	2023	BC307-5	2023	BC350B	2023	BC455	2009	BC512	2023	BCM1002-2	2016	BCW95	2030
BC252C	2023	BC307-18	2023	BC350L	2023	BC456	2058	BC513A	2023	BCW31	2016	BCW95A	2009
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BC257VI	2023	BC308-18	2023	BC391	2023	BC485A18	2023	BC547	2009	BCW46A	2009	BCW97B	2023
BC258	2023	BC308A	2023	BC382	1617	BC485B	2023	BC547A	2009	BCW46B	2009	BCW97KA	2023
BC258C	2023	BC308B	2023	BC382B	2009	BC485B5	2023	BC547AP	2009	BCW47	2030	BCW97KB	2023

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
BCW98A	2016	BCY78	2023	BD241C	2020	BDT91	2020	BF177	2030	BF254	2058	BF497	2016
BCW98B	2016	BCY79	2023	BD242	2027	BDT93	2020	BF-180	2009	BF254(ALGG)	2009	BF505	2058
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BCX59	2009	BCY95B	2023	BD312	2043	BDX29-10	2020	BF-198	2058	BF264	2016	BFR19	2030
BCX70AG	2009	BCY98	2023	BD313	2041	BDX30	2020	BF198	2058	BF270	2016	BFR20	2030
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DCY35	2023	BD0A	1104	BD438	2027	BDX92	2043	BF213	2016	BF288	2016	BFR51	2030
BCY36	1617	BD1	1123	BD439	2020	BDX93	2041	BF-214	1617	BF290	2016	BFR52	2030
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BCY39	2023	BD3	1123	BD457	1104	BDY10	2041	BF215	2016	BF291B	1617	BFS11	2016
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BCY47	2030	BD6	1123	BD483B	1104	BDY20	2041	BF220	2016	BF304	2016	BFS14F	2016
BCY48	2030	BD7	1123	BD483BF	1104	BDY23	2041	BF222	2016	BF306	2016	BFS14G	2016
BCY49	2030	BD71	2016	BD483BT	1104	BDY23A	2041	BF223	2016	BF308	2058	BFS15E	2016
BCY50	1617	BD106	2020	BD533	2020	BDY23B	2041	BF224	2058	BF310	2058	BFS15F	2016
BCY51	1617	BD106A	2020	BD534	2027	BDY23C	2041	BF224J	1617	BF311	2058	BFS15G	2016
BCY51I	1617	BD106B	2020	BD534L	2027	BDY34	2020	BF225	2058	BF314	2058	BFS16E	2016
BCY54	2023	BD-107	1104	BD535	2020	BDY38	2041	BF225J	1617	BF321A	1617	BFS16F	2016
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BCY57	1617	BD107B	2020	BD544	2020	BDY54	2041	BF227	2016	BF321D	1617	BFS17R	2016
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BCY58B	1617	BD111	2041	BD544C	2020	BDY69	2043	BF232	2016	BF322	2030	BFS18R	2016
BCY58C	1617	BD113	2058	BD575	2020	BDY73	2041	BF233	2058	BF329	2016	BFS19	2016
BCY58D	1617	BD124	2020	BD577	2020	BDY80	2020	BF233-2	2058	BF332	2016	BFS19CB	2009
BCY58IX	1617	BD-127	1104	BD579	2020	BDY81	2020	BF233-3	2058	BF333	2016	BFS19R	2016
BCY58VII	1617	BD130	2041	BD585	2020	BDY82	2027	BF233-4	2016	BF333C	2016	BFS20	2016
BCY58VIII	1617	BD-131	2020	BD587	2020	BDY83	2027	BF233-5	2016	BF333D	2016	BFS20R	2016
BCY59	1617	BD135G	2017	BD589	2020	BDY93	2055	BF233-6	2058	BF334	2016	BFS21	2035
BCY59-7	1617	BD137G	2017	BD591	2020	BDY93/01	2055	BF234	2058	BF335	2016	BFS21A	2035
BCY59-8	1617	BD139G	2017	BD596	2027	BE-66	1617	BF235	2016	BF340	2023	BFS23A	2041
BCY59-9	1617	BD141	2041	BD633	2020	BE71	2030	BF236	2016	BF342	2023	BFS26E	2023
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BCY59B	1617	BD162	2020	BD643	2068	BE117	1104	BF238	2009	BF344	2016	BFS26G	2023
BCY59C	1617	BD163	2020	BD645	2068	BE127	1104	BF240	2058	BF345	2016	BFS27E	2016
BCY59D	1617	BD181	2041	BD705	2020	BE173	2016	BF240B	2058	BF348	2035	BFS27F	2016
BCY59IX	1617	BD182	2041	BD707	2020	BF71	1617	BF241	2058	BF357	2016	BFS27G	2016
BCY59VII	1617	BD201	2020	BD709	2020	BF115	2009	BF241C	2058	BF362	2016	BFS29	2030
BCY59VIII	1617	BD203	2020	BD711	2020	BF121	2016	BF241D	2058	BF363	2016	BFS31	2023
BCY65	2030	BD220	2020	BD733	2020	BF123	2016	BF243	2023	BF364	2058	BFS31P	1617
BCY65IX	1617	BD221	2020	BD735	2020	BF125	2016	BF244	2035	BF365	2058	BFS32	2023
BCY65VII	1617	BD222	2020	BD737	2020	BF127	2016	BF244A	2035	BF366	2030	BFS32P	2023
BCY65VIII	1617	BD223	2027	BD801	2020	BF155	2016	BF244B	2035	BF367	2058	BFS33	2023
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BCY77A	2023	BD240	2027	BD3595T	1102	BF169	2016	BF249	2023	BF441	2023	BFS39	2009
BCY77B	2023	BD240A	2027	BD0A	1171	BF173	2016	BF250	1617	BF450	2023	BFS40	2023
BCY77C	2023	BD241	2020	BDT61	2068	BF173A	2016	BF251	2016	BF451	2023	BFS40A	2023
BCY77VII	2023	BD241A	2020	BDT61A	2068	BF175	2016	BF252	2016	BF494	2058	BFS41	2023
BCY77VIII	2023	BD241B	2020	BDT61B	2068	BF176	2016	BF253	2016	BF495	2058	BFS42	1617

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DEVICE	276	DEVICE	276	DEVICE	276	DEVICE	276	DEVICE	276	DEVICE	276	DEVICE	276
BF543	1617	BFV88B	1617	BFY22	1617	BLY34	2020	BS-94	1617	BSW45	2023	BSX01B	2009
BF551	2017	BFV88C	1617	BFY23	1617	BLY37	2017	BS170	2074	BSW45A	2023	BSX07	1617
BF555A	2016	BFV89	2016	BFY23A	2016	BLY38	1617	BS475	1617	BSW47	2030	BSX08	1617
BF558	2016	BFV89A	2016	BFY24	1617	BLY47	1617	BS911G	2009	BSW51	1617	BSX09	1617
BF562	2016	BFW10	2035	BFY25	1617	BLY48	2041	BSA01	1122	BSW52	1617	BSX90	1617
BF568	2035	BFW11	2035	BFY26	1617	BLY53	2017	BSA02	1122	BSW53	1617	BSX91	1617
BF568P	2035	BFW12	2035	BFY27	2030	BLY61	2030	BSA11	1122	BSW58	2009	BSX92	2016
BF569	2023	BFW13	2035	BFY28	1617	BLY62	2017	BS-B1	1171	BSW59	2009	BSX93	2016
BF596	2023	BFW20	2023	BFY29	1617	BLY63	2020	BS-B4	1173	BSW65	2030	BSX94A	1617
BF597	2023	BFW21	2023	BFY30	1617	BLY68	2020	BSS10	1617	BSW66	2030	BSX95	2030
BF598	2023	BFW22	2023	BFY33	1617	BLY70	2017	BSS21	1617	BSW72	2023	BSX96	2030
BF720	2003	BFW23	2023	BFY34	2020	BLY79	2020	BSS22	1617	BSW73	2023	BSX97	1617
BF721	2023	BFW24	1617	BFY37	1617	BLY88	2020	BSS26	1617	BSW74	1617	BSY10	1617
BF722	2023	BFW25	2023	BFY37I	1617	BLY89	2020	BSS28	2020	BSW75	2023	BSY11	1617
BF729	2030	BFW25	1617	BFY39	1617	BLY91	2017	BSS29	2030	BSW81	2023	BSY17	1617
BF730	2030	BFW41	2016	BFY39/1	1617	BLY92	2020	BSS40	2030	BSW82	1617	BSY18	1617
BF731	2030	BFW46	1617	BFY39/2	1617	BN-66	1617	BSS41	2030	BSW83	1617	BSY19	2009
BF739	2030	BFW50	1171	BFY39/3	1617	BN7133	2041	BSV21	2023	BSW84	1617	BSY20	1617
BF740	2030	BFW54	2035	BFY39/I	1617	BN7214	2041	BSV35	2016	BSW85	1617	BSY21	1617
BF741	2030	BFW55	2035	BFY39/II	1617	BN7517	1617	BSV35A	1617	BSW88	1617	BSY22	2016
BF754	2009	BFW56	2035	BFY39/III	1617	BN7518	1617	BSV40	1617	BSW88A	2009	BSY23	2016
BF755	1617	BFW57	1617	BFY39-1	2016	BN7551	2016	BSV41	1617	BSW88B	2009	BSY24	1617
BF776	2023	BFW60	1617	BFY39-2	2016	BC-71	2016	BSV42	2023	BSW89	1617	BSY25	1617
BF771	2023	BFW61	2035	BFY39-3	2016	BQ319700	2016	BSV43A	2023	BSW89A	2009	BSY26	114
BFV10	2009	BFW63	2016	BFY39/I	1617	BQ470016	2401	BSV44A	2023	BSW99B	2009	BSY27	1617
BFV11	2009	BFW64	2016	BFY40	2030	BQ470116	2411	BSV45A	2023	BSW92	1617	BSY28	1617
BFV12	2009	BFW68	1617	BFY44	2030	BP67	2030	BSV46	2023	BSX12	2016	BSY29	1617
BFV20	2023	BFW67	2023	BFY46	2030	BQ67	1617	BSV47A	2023	BSX12A	2030	BSY34	1617
BFV21	2023	BFW89	2023	BFY47	2016	BQ-94	2016	BSV48A	2023	BSX19	1617	BSY38	1617
BFV22	2023	BFW90	2023	BFY48	2016	BR-1	1171	BSV49A	2023	BSX23	2030	BSY39	1617
BFV25	2023	BFX17	2030	BFY49	2016	BR42	1184	BSV51	2030	BSX24	1617	BSY40	2023
BFV26	2023	BFX18	2016	BFY50	2030	BR44	1104	BSV52	2016	BSX25	1617	BSY41	2023
BFV27	2016	BFX19	2016	BFY51	2030	BR44	1104	BSV52R	2016	BSX26	2016	BSY44	2023
BFV28	2016	BFX20	2016	BFY51I	2030	BR47	1104	BSV53	1617	BSX27	1617	BSY45	2030
BFV29	2023	BFX21	2016	BFY52	2030	BR48	1104	BSV53P	2016	BSX30	1617	BSY46	2030
BFV30	2023	BFX29	2023	BFY53	2030	BR52	1104	BSV54	1617	BSX33	2030	BSY48	1617
BFV31	2023	BFX30	2023	BFY55	2030	BR-66	1617	BSV54P	2016	BSX35	2016	BSY49	1617
BFV32	2023	BFX31	2016	BFY56	2030	BR67	2030	BSV55	1617	BSX36	2023	BSY51	2030
BFV33	2023	BFX32	2016	BFY56A	2030	BR81D	1171	BSV55A	2023	BSX38	1617	BSY52	2030
BFV34	2023	BFX35	2023	BFY56B	2023	BR-82	2030	BSV55AP	2023	BSX38A	1617	BSY53	2030
BFV37	2016	BFX37	2023	BFY66	2020	BR04D	2020	BSV55P	2023	BSX38B	1617	BSY54	2030
BFV38	2016	BFX43	1617	BFY67	2030	BR-108B	2030	BSV59	1617	BSX44	1617	BSY55	2030
BFV40	2009	BFX44	1617	BFY67A	2030	BR198B	2030	BSV63FA	2017	BSX45	2030	BSY56	2030
BFV41	2009	BFX45	2016	BFY67C	2030	BR-101B	2020	BSV63FB	2020	BSX45-6	2030	BSY58	1617
BFV42	2009	BFX47	2016	BFY68	2030	BR101B	2020	BSV68	2020	BSX45-10	2030	BSY59	1617
BFV43	2009	BFX50	2030	BFY68A	2030	BR103	1067	BSV77	2016	BSX45-16	2030	BSY61	1617
BFV44	2009	BFX51	2030	BFY69	2016	BR805D	1171	BSV84	2030	BSX46	2030	BSY62	1617
BFV45	2009	BFX52	2030	BFY69A	2016	BR-832	2023	BSV86	2009	BSX46-6	2030	BSY62A	1617
BFV46	2009	BFX59	2009	BFY69B	2016	BR51400-1	1104	BSV87	2009	BSX46-10	2030	BSY63	1617
BFV47	2009	BFX59F	1617	BFY70	2030	BR51400-2	1104	BSV88	1617	BSX46-16	2030	BSY70	1617
BFV48	2009	BFX60	2016	BFY72	1617	BR151	1171	BSV89	1617	BSX47	2030	BSY71	2030
BFV50	2009	BFX61	2030	BFY73	1617	BR152	1171	BSV90	1617	BSX47-6	2030	BSY72	1617
BFV51	2009	BFX62	2016	BFY74	1617	BR154	1173	BSV91	1617	BSX47-10	2030	BSY73	1617
BFV53	2009	BFX65	2023	BFY75	1617	BRF201	1171	BSV92	2023	BSX40	1617	BSY74	1617
BFV54	2009	BFX66	1617	BFY76	1617	BRF202	1171	BSV96	2023	BSX49	1617	BSY75	1617
BFV55	2009	BFX68	2030	BFY77	1617	BRF204	1173	BSV97	2023	BSX51	1617	BSY76	1617
BFV59	2016	BFX68A	2030	BFY78	2016	BRR101	1173	BSV98	2023	BSX51A	1617	BSY77	2030
BFV60	2016	BFX69	2030	BFY79	2016	BRR102	1173	BSW10	2030	BSX52	1617	BSY78	2030
BFV61	2016	BFX69A	2030	BFY80	2030	BRR103	1173	BSW11	1617	BSX52A	1617	BSY80	1617
BFV62	2016	BFX73	2016	BFY85	1617	BRR104	1173	BSW12	1617	BSX53	1617	BSY81	2030
BFV63	2016	BFX74	2030	BFY86	1617	BRR151	1173	BSW19	2016	BSX54	1617	BSY82	2030
BFV64	2023	BFX77	2016	BFY87	2016	BRR152	1173	BSW19	1617	BSX59	2030	BSY83	2030
BFV81A	2023	BFX96	2020	BFY87A	2016	BRR154	1173	BSW20	2023	BSX60	2030	BSY84	2030
BFV81B	2023	BFX98	2020	BFY88	2016	BRR154	1173	BSW21	2023	BSX61	2030	BSY85	2030
BFV91	2023	BFX98A	2020	BFY90(SIC)	1617	BRX44	1067	BSW21A	2023	BSX62	2030	BSY88	2030
BFV82A	2023	BFX89	2016	BFY90B	2016	BRX45	1067	BSW22	2023	BSX62B	2030	BSY87	2030
BFV82B	2023	BFX92	1617	BFY94	2023	BRX46	1067	BSW22A	2023	BSX62C	2030	BSY88	2030
BFV87C	2023	BFX92A	1617	BFY99	2030	BRX47	1067	BSW24	2023	BSX62D	2030	BSY89	1617
BFV83	2016	BFX93	1617	BFY167	2016	BRX48	1020	BSW26	2030	BSX63B	2030	BSY90	2030
BFV83A	2016	BFX93A	2016	BFY371	1617	BRX49	1020	BSW27	2030	BSX63C	2030	BSY91	1617
BFV82B	1617	BFY94	1617	BFY291	1617	BRX60	1067	BSW28	2030	BSX66	1617	BSY92	2030
BFV83C	1617	BFX95	1617	BG-07077	302	BRX61	1067	BSW29	2030	BSX67	1617	BSY93	1617
BFV85	1617	BFX95A	1617	BG-64	1617	BRX62	1067	BSW37	2009	BSX68	1617	BSY95	1617
BFV85A	1617	BFX96	1617	BG-71	1617	BRX64	1020	BSW33	1617	BSX69	1617	BSY95A	1617
BFV85B	1617	BFX96A	2030	BG-94	1617	BRX64-19C	1067	BSW34	1617	BSX70	2030	BSY165	1617
BFV85C	1617	BFX97	2030	BH4R1	1104	BRY54-300	1020	BSW35	2030	BSX71	2030	BSY168	1617
BFV85D	2016	BFX97A	2030	BH4R6	1114	BRY55-30	1067	BSW39	1617	BSX72	2030	BT67	1617
BFV85E	2016	BFX99	2030	BH71	1617	BRY55-60	1067	BSW39-6	2030	BSX75	1617	BT71	1617
BFV85F	2016	BFY10	1617	BH-DX0038CEZZ	1104	BRY55-100	1067	BSW39-10	2030	BSX76	1617	BT82	2023
BFV85G	2016	BFY11	1617	BH71	1617	BRY55-200	1067	BSW39-16	2030	BSX77	1617	BT-94	1617
BFV86	2023	BFY12	1617	BFY2201	1617	BRY55-300	1020	BSW41	1617	BSX78	1617	BT 00A-300R	1020
BFV86A	2023	BFY13	2030	BH	1617	BS08M	1069	BSW42	1617	BSX79	1617	BT 00A	1067
BFV86B	2023	BFY14	2030	BLY30	2041	BS1	1104	BSW42A	1617	BSY79A	2009	BT 06B	1067
BFV86C	2023	BFY15	2030	BLY31	2041	BS2	1104	BSW43	1617	BSY79B	2009	BT 06C	1020
BFV87	1617	BFY17	2030	BLY32	2017	BS-66	1617	BSW43A	1617	BSX80	1617	BT 08D	1020
BFV88	1617	BFY18	1617	BLY33	2030	BS47	2030	BSW44	2023	BSX81	1617	BT929	2016
BFV88A	1617	BFY19	1617	BLY37	2020	BS68	2023	BSW44A	2023	BSX81A	2009	BT-100-120	2016

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
BT8667	2035	BY115	1104	BYX58-50	1122	BZV32A	562	BZX71-C6V2	561	BZX96C5V1	565	BZY88-C4V7	565
BT151500R	1020	BY116	1104	BYX58-100	1122	BZV32B	562	BZX71-C9V1	562	BZX96C6V2	561	BZY88-C5V1	565
BT81000	1114	BY117	1104	BYX58-200	1122	BZV33	562	BZX71-C12	563	BZX96C9V1	562	BZY88-C6V2	561
BT00105	1000	BY118	1114	BYX60-50	1104	BZV33A	562	BZX71-C15	564	BZX96C12	563	BZY88-C9V1	562
BT00110	1000	BY119	1114	BYX60-100	1104	BZV33B	562	BZX71B5V1	1114	BZX96C15	564	BZY88-C12	563
BT00120	1000	BY121	1104	BYX60-200	1104	BZV34	562	BZX71B6V2	561	BZX97-C4V7	565	BZY88-C15	564
BT00140	1000	BY122	1171	BYX60-300	1104	BZV34A	562	BZX71B9V1	562	BZX97-C5V1	565	BZY88C4V7	565
BT00320	1000	BY124	1104	BYX60-400	1104	BZV34B	562	BZX71B12	563	BZX97-C6V2	561	BZY88C5V1	565
BT00340	1000	BY125	1104	BYX60-500	1104	BZV35	562	BZX71B15	564	BZX97-C9V1	562	BZY88C6V2	561
BTM-50	1141	BY126	1104	BYX60-600	1104	BZV35A	562	BZX71C5V1	565	BZX97-C12	563	BZY88C9V1	562
BTM50	1104	BY126/50	1114	BYX60-700	1114	BZV35B	562	BZX71C6V2	561	BZX97-C15	564	BZY88C12	563
BTM1000	1114	BY126/100	1114	BYX55009	1114	BZV36	562	BZX71C9V1	562	BZX97C4V7	565	BZY88C12V	563
BTR1005	1000	BY126/200	1114	BYY31	1104	BZV36A	562	BZX71C12	563	BZX97C5V1	565	BZY88C15	564
BTR1010	1000	BY126/300	1114	BYY32	1104	BZV36B	562	BZX71C15	564	BZX97C6V2	564	BZY88C15V	564
BTR1020	1000	BY126/400	1114	BYY33	1114	BZV41C4V7	565	BZX72	562	BZX97C9V1	562	BZY92/C5V1	565
BT53500	1122	BY-127	1104	BYY34	1104	BZV41C5V1	565	BZX72A	562	BZX97C12	563	BZY92/C15	564
BTX068	1617	BY127/500	1114	BYY35	1114	BZV41C6V2	561	BZX72B	562	BZY97C15	564	BZY92C4V7	565
BTX-094	1617	BY127/600	1114	BYY36	1114	BZV41C9V1	562	BZX72C	562	BZY17C6V2	561	BZY92C5V1	565
BTX-095	1617	BY127/700	1114	BYY37	1114	BZV41C12	563	BZX74-C6V2	562	BZY17C9V1	562	BZY92C6V2	561
BTX-096	1617	BY128	1114	BYY60	1114	BZV41C15	564	BZX74-C9V1	562	BZY17C12	563	BZY92C9V1	562
BTX18-100	1067	BY129	1114	BYY61	1114	BZV49C6V2	561	BZY74-C12	563	BZY17C15	564	BZY92C12	563
BTX18-200	1067	BY130	1104	BZ-050	565	BZV49C9V1	562	BZX74C6V2	561	BZY18	563	BZY92C15	564
BTX18-300	1020	BY134	1104	BZ050	565	BZV49C12	563	BZX74C9V1	562	BZY18C6V2	561	BZY94/C12	563
BTX18-400	1020	BY135	1104	BZ-058	561	BZV85C5V1	565	BZX74C12	563	BZY18C9V1	562	BZY94/C15	564
BTX30-100	1067	BY141	1104	BZ058	561	BZV85C6V2	561	BZX78C6V2	561	BZY18C11	563	BZY94-C12	563
BTX30-200	1067	BY153	1104	BZ-061	561	BZV85C9V1	562	BZX78C9V1	562	BZY18C12	563	BZY94-C15	564
BTX30-300	1020	BY156	1114	BZ061	561	BZV85C12	563	BZX78C12	563	BZY19	564	BZY94C12	563
BTX30-400	1020	BY159-50	1173	BZ-063	561	BZV85C15	564	BZX78C15	564	BZY56	565	BZY94C15	564
BTX-2367B	1617	BY159-200	1173	BZ063	561	BZV85C33	562	BZX79/C9V1	562	BZY57	565	C05-10	1114
BTX2367B	1617	BY159-400	1173	BZ-080	562	BZX10	561	BZX79/C12	563	BZY59	561	C06C	1104
BU67	1617	BY164	1171	BZ-085	562	BZX14	562	BZX79-C4V7	565	BZY63	562	C08P1R	1101
BU71	1617	BY172	1114	BZ-088	562	BZX17	563	BZX79-C5V1	565	BZY65	565	C049	1144
BU105	2055	BY173	1114	BZ088	562	BZX19	564	BZX79-C6V2	561	BZY66	561	C0406	1114
BU105-02	2055	BY179	1173	BZ-090	562	BZX29-C5V1	565	BZX79-C9V1	562	BZY68	562	C0410	1114
BU108	2055	BY188	1114	BZ090	562	BZX29-C6V2	561	BZX79-C12	563	BZY69	563	C0510	1114
BU115	2055	BY201	1144	BZ090.1Z9	562	BZX29-C9V1	562	BZX79-C15	564	BZY83/C5V1	565	C014348	1770
BU204	2055	BY201-200	1104	BZ-092	562	BZX29-C12	563	BZX79B9V1	562	BZY83/C15	564	C014809	2023
BU205	2055	BY201-300	1104	BZ092	562	BZX29-C15	564	BZX79C4V7	565	BZY83/C16	564	C018991	1604
BU206	2055	BY201-400	1104	BZ-094	562	BZX29C4V7	565	BZX79C5V1	565	BZY83/D15	564	C060607	1122
BU207	2055	BY201-500	1104	BZ094	562	BZX29C5V1	565	BZX79C6V2	561	BZY83-C4V7	565	C060612	2506
BU208	2055	BY201-600	1104	BZ-0901	562	BZX29C6V2	561	BZX79C9V1	561	BZY83-C5V1	563	C1A	1122
BU208A	2055	BY206	1144	BZ1-90	562	BZX29C9V1	562	BZX79C12	563	BZY83-C6V2	561	C1B	1104
BU208B	2055	BY210-400	1103	BZ4.7	565	BZX29C12	563	BZX79C15	564	BZY83-C9V1	562	C1H	1104
BU209	2055	BY251	1114	BZ5.1	565	BZX29C15	564	BZX79C15V	564	BZY83-C12	563	C1.0E02	1114
BU225	2055	BY252	1114	BZ6.2	561	BZX46-C4V7	565	BZX80-C9V1	562	BZY83-C15	564	C2AJ102	1104
BU326	2055	BY253	1114	BZ9.1	562	BZX46-C5V1	565	BZX81-C12	563	BZY83-D4V7	565	C4C4.7	565
BU326A	2055	BY254	1114	BZ-12	563	BZX46-C6V2	561	BZX81-C15	564	BZY83-D12	563	C4C5.1	565
BU326R	2055	BY255	1114	BZ12	563	BZX46-C9V1	562	BZX83-C4V7	562	BZY83-D15	565	C4C6.2	561
BU326S	2055	BY256	1171	BZ67	1617	BZX46-C12	563	BZX83-C5V1	565	BZY83C4V7	564	C4C9.1	562
BU500	2055	BY318-100	1122	BZ71	1617	BZX46-C15	564	BZX83-C6V2	561	BZY83C5V1	565	C4C12	563
BU526	2055	BY401	1104	BZ106	563	BZX46C4V7	565	BZX83-C9V1	562	BZY83C6V2	561	C4C15	564
BU536	2055	BY402	1104	BZ106A	563	BZX46C5V1	565	BZX83-C15	564	BZY83C9V1	562	C4C120	563
BU546	2055	BY403	1104	BZ107	564	BZX46C6V2	561	BZX83C4V7	565	BZY83C12	563	C5D5234	561
BU546	2055	BY404	1104	BZ107A	564	BZX46C9V1	562	BZX83C5V1	565	BZY83C15	564	C5D5239	562
BU93	2023	BY405	1104	BZ-115	563	BZX46C12	563	BZX83C6V2	561	BZY83C16	564	C5D5242	563
BUY10	2041	BY406	1104	BZ115	563	BZX46C15	564	BZX83C9V1	562	BZY83D4V7	565	C5D5245	564
BUY11	2041	BY407	1104	BZ-120	563	BZX55-C4V7	565	BZX83C12	563	BZY83D12	563	C6	2055
BUY24	2020	BY1001	1114	BZ120	563	BZX55-C5V1	565	BZX83C12V	563	BZY83D15	564	C6A	1067
BUY44	2041	BY1002	1114	BZ-145	564	BZX55-C6V2	561	BZX83C15	564	BZY84D12	563	C6B	1067
BV25	1104	BY1101	1114	BZ145	564	BZX55-C9V1	562	BZX83C15V	564	BZY85/C5V1	565	C6B3	1067
BV67	1617	BY1102	1114	BZ-150	564	BZX55-C12	563	BZX84C4V7	565	BZY85/C15	564	C6F	1067
BV71	1617	BY1200	1114	BZ150	564	BZX55-C15	564	BZX84C5V1	565	BZY85/D15	564	C6U	1067
BW67	1617	BY1201	1114	BZ821T	561	BZX55C4V7	565	BZX84C6V2	561	BZY85-C4V7	565	C7	2023
BW71	1617	BY1202	1114	BZ821TF	561	BZX55C5V1	565	BZX84C9V1	565	BZY85-C6V1	561	C7A4	1067
BX090	562	BY521	1104	BZ821TT	561	BZX55C6V2	561	BZX84C12	561	BZY85-C6V2	561	C8	2023
BX67	1617	BYV950	1104	BZ963	563	BZX55C9V1	562	BZX85C4V7	565	BZY85-C9V1	562	C-10-20A	1122
BX71	1617	BYW27-50	1101	BZ963F	563	BZX55C12	563	BZX85C5V1	563	BZY85-C12	563	C10-20A	1122
BX909	562	BYX10	1114	BZ963T	563	BZX55C12V	563	BZX85C6V2	561	BZY85-C15	564	C10-22C	1122
BXY10	1114	BYX12/400	1114	BZ965	564	BZX55C15	564	BZX85C9V1	562	BZY85-D4V7	563	C11S1C1E1C	1104
BXY63	562	BYX13/600	1114	BZ965F	564	BZX55C15V	564	BZX85C12	563	BZY85-D12	565	C12	2030
BY12-00	1114	BYX22/200	1104	BZ965T	564	BZX58-C9V1	562	BZX85C15	564	BZY85-D15	564	C12A(TRANS)	2030
BY67	1617	BYX22/400	1104	BZ1021V4	1122	BZX58C9V1	562	BZX88C4V7	565	BZY85B6V2	561	C12B(TRANS)	2030
BY71	1617	BYX22/600	1104	BZ2090	562	BZX59-C15	564	BZX88C5V1	565	BZY85B15	564	C12C(TRANS)	2030
BY100	1114	BYX22/800	1114	BZV18C6V2	561	BZX59C12	563	BZX88C6V2	562	BZY85C4V7	565	C12D(TRANS)	2030
BY100S	1114	BYX22-200	1104	BZV18C9V1	562	BZX59C15	564	BZX88C9V1	562	BZY85C5V1	565	C12E	2030
BY101	1104	BYX22-400	1103	BZV18C12	563	BZX63C9V1	562	BZX88C12	563	BZY85C6V2	561	C12F(TRANS)	2030
BY102	1104	BYX22-600	1104	BZV27	561	BZX64C12	563	BZX88C15	564	BZY85C9V1	562	C12G(TRANS)	2030
BY104	1114	BYX22-800	1114	BZV27A	561	BZX64C15	564	BZX95-C6V2	563	BZY85C12	562	C12GN	2030
BY105	1114	BYX26-60	1114	BZV28	561	BZX69-C9V2	562	BZX95-C9V1	562	BZY85C15	564	C12H(TRANS)	2030
BY106	1104	BYX30/150	1143	BZV28A	561	BZX69-C12	563	BZX95-C12	563	BZY85D4V7	565	C12J	2030
BY107	1104	BYX36-150	1114	BZV29	561	BZX69C12	563	BZX96-C4V7	565	BZY85D12	563	C12K	2030
BY108	1114	BYX36-300	1104	BZV29A	561	BZX71-B5V1	565	BZX96-C5V1	565	BZY85D15	564	C12L	2030
BY109	1114	BYX36-600	1104	BZV30	561	BZX71-B6V2	561	BZX96-C6V2	561	BZY88/C5V1	565	C12M	2030
BY111	1104	BYX38	1114	BZV30A	561	BZX71-B9V1	562	BZX96-C9V1	562	BZY88/C6V2	561	C12OR	2030
BY112	1104	BYX45-600R	1114	BZV31	561	BZX71-B12	563	BZX96-C12	563	BZY88/C9V1	562	C12R	2030
BY113	1104	BYX45-800R	1114	BZV31A	561	BZX71-B15	564	BZX96-C15	564	BZY88/C9V5	562	C12X	2030
BY114	1104	BYX45-1000R	1114	BZV32	562	BZX71-C5V1	565	BZX96C4V7	565	BZY88/C9V7	565	C12Y	2030

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
C15	1617	C19L	2030	C24H	2030	C30E(TRANS)	2030	C38A(TRANS)	1617	C47Y	2030	C54(2S)	1617
C15-0	1617	C19M	2030	C24J	2030	C30F(TRANS)	2030	C38B(TRANS)	1617	C48(2S)	2030	C54A	1617
C15-1(2S)	1617	C19OR	2030	C24K	2030	C30G	2030	C38C(TRANS)	1617	C48A	2030	C54B	1617
C15-2(2S)	1617	C19R	2030	C24L	2030	C30GN	2030	C38D(TRANS)	1617	C48B	2030	C54C	1617
C15-3(2S)	1617	C19X	2030	C24M	2030	C30H	2030	C38E(TRANS)	1617	C48C(2S)	2030	C54D	1617
C15A(TRANS)	1617	C19Y	2030	C24OR	2030	C30J	2030	C38F(TRANS)	1617	C48D	2030	C54E	1617
C15B(TRANS)	1617	C20(2S)	2030	C24R	2030	C30L	2030	C38G(TRANS)	1617	C48E	2030	C54F	1617
C15C(TRANS)	1617	C20A(TRANS)	2030	C24X	2030	C30M(TRANS)	2030	C38H(TRANS)	1617	C48F	2030	C54G	1617
C15D(TRANS)	1617	C20B(TRANS)	2030	C24Y	2030	C30OR	2030	C38J	1617	C48G	2030	C54GN	1617
C15E(TRANS)	1617	C20C(TRANS)	2030	C25-06M	1104	C30R	2030	C38K	1617	C48GN	2030	C54H	1617
C15F(TRANS)	1617	C20D(TRANS)	2030	C26(2S)	1617	C30X	2030	C38L	1617	C48H	2030	C54I	1617
C15G(TRANS)	1617	C20E(TRANS)	2030	C26A	1617	C30Y	2030	C38M(TRANS)	1617	C48J	2030	C54K	1617
C15GN	1617	C20F(TRANS)	2030	C26B	1617	C31(2S)	2030	C38OR	1617	C48K	2030	C54L	1617
C15H(TRANS)	1617	C20G	2030	C26C	1617	C31A(TRANS)	2030	C38R	1617	C48L	2030	C54M	1617
C15J	1617	C20GN	2030	C26D	1617	C31B(TRANS)	2030	C38X	1617	C48M(TRANS)	2030	C54OR	1617
C15K	1617	C20H	2030	C26E	1617	C31C(TRANS)	2030	C38Y	1617	C48OR	2030	C54X	1617
C15L	1617	C20J	2030	C26F	1617	C31D(TRANS)	2030	C39	2016	C48R	2030	C54Y	1617
C15M(TRANS)	1617	C20K	2030	C26G	1617	C31E(TRANS)	2030	C39-207	1617	C48X	2030	C55(2S)	1617
C15OR	1617	C20L	2030	C26GN	1617	C31F(TRANS)	2030	C39A(2S)	2016	C48Y	2030	C55A(TRANS)	1617
C15R	1617	C20M(TRANS)	2030	C26H	1617	C31G	2030	C39B	2016	C49(2S)	2030	C55B(TRANS)	1617
C15X	1617	C20OR	2030	C26J	1617	C31GN	2030	C39C	2016	C49A(TRANS)	2030	C55C(TRANS)	1617
C15Y	1617	C20R	2030	C26K	1617	C31H	2030	C39D	2016	C49B(TRANS)	2030	C55D(TRANS)	1617
C16(2S)	1617	C20X	2030	C26L	1617	C31J	2030	C39E	2016	C49C(TRANS)	2030	C55E(TRANS)	1617
C16A(2S)	1617	C20Y	2030	C26M	1617	C31K	2030	C39F	2016	C49D(TRANS)	2030	C55F(TRANS)	1617
C16B	1617	C21	2041	C26OR	1617	C31L	2030	C39G	2016	C49E(TRANS)	2030	C55G(TRANS)	1617
C16C	1617	C21(2S)	2041	C26R	1617	C31M	2030	C39GN	2016	C49F	2030	C55GN	1617
C16D	1617	C21A	2041	C26X	1617	C31OR	2030	C39H	2016	C49G(TRANS)	2030	C55H(TRANS)	1617
C16E	1617	C21B	2041	C26Y	1617	C31R	2030	C39J	2016	C49GN	2030	C55J	1617
C16F	1617	C21C	2041	C27(2S)	1617	C31X	2030	C39K	2016	C49H	2030	C55K	1617
C16G	1617	C21D	2041	C27A	1617	C31Y	2030	C39L	2016	C49J	2030	C55L	1617
C16GN	1617	C21E	2041	C27B	1617	C32(2S)	2030	C39M	2016	C49K	2030	C55M(TRANS)	1617
C16H	1617	C21F	2041	C27D	1617	C32A	2030	C39OR	2016	C49L	2030	C55OR	1617
C16J	1617	C21G	2041	C27E	1617	C32A(2S)	2030	C39R	2016	C49M(TRANS)	2030	C55R	1617
C16K	1617	C21GN	2041	C27F	1617	C32B(TRANS)	2030	C39K	2016	C49OR	2030	C55X	1617
C16L	1617	C21H	2041	C27G	1617	C32C(TRANS)	2030	C39Y	2016	C49X	2030	C55Y	1617
C16M	1617	C21J	2041	C27GN	1617	C32D(TRANS)	2030	C40(2S)	2016	C49Y(2S)	2030	C56(2S)	2016
C16OR	1617	C21K	2041	C27H	1617	C32E(TRANS)	2030	C40A(TRANS)	2016	C51(2S)	2030	C56A(TRANS)	2016
C16R	1617	C21L	2041	C27J	1617	C32F(TRANS)	2030	C40B(TRANS)	2016	C51A	2030	C56B(TRANS)	2016
C16X	1617	C21M	2041	C27K	1617	C32G	2030	C40C(TRANS)	2016	C51B	2030	C56C(TRANS)	2016
C16Y	1617	C21OR	2041	C27L	1617	C32GN	2030	C40D(TRANS)	2016	C51C	2030	C56D(TRANS)	2016
C17(2S)	1617	C21R	2041	C27M	1617	C32H	2030	C40E(TRANS)	2016	C51D	2030	C56E(TRANS)	2016
C17A(2S)	1617	C21X	2041	C27OR	1617	C32J	2030	C40F(TRANS)	2016	C51E	2030	C56F(TRANS)	2016
C17B	1617	C21Y	2041	C27R	1617	C32K	2030	C40G(TRANS)	2016	C51F	2030	C56G(TRANS)	2016
C17C	1617	C22(2S)	2030	C27X	1617	C32L	2030	C40GN	2016	C51G	2030	C56GN	2016
C17D	1617	C22A(TRANS)	2030	C27Y	1617	C32M	2030	C40H(TRANS)	2016	C51GN	2030	C56H(TRANS)	2016
C17E	1617	C22B(TRANS)	2030	C28(2S)	1617	C32OR	2030	C40J	2016	C51H	2030	C56J	2016
C17F	1617	C22D(TRANS)	2030	C28A	1617	C32R	2030	C40K	2016	C51J	2030	C56K	2016
C17G	1617	C22E(TRANS)	2030	C28B	1617	C32X	2030	C40L	2016	C51K	2030	C56L	2016
C17GN	1617	C22F(TRANS)	2030	C28C	1617	C32Y	2030	C40OR	2016	C51L	2030	C56M(TRANS)	2016
C17H	1617	C22G	2030	C28D	1617	C33(2S)	2009	C40R	2016	C51M	2030	C56OR	2016
C17J	1617	C22GN	2030	C28E	1617	C33A(TRANS)	2009	C40X	2016	C51OR	2030	C56R	2016
C17K	1617	C22H	2030	C28F	1617	C33B(TRANS)	2009	C40Y	2016	C51R	2030	C56X	2016
C17L	1617	C22J	2030	C28G	1617	C33C(TRANS)	2009	C44-04	1104	C51X	2030	C56Y	2016
C17M	1617	C22K	2030	C28GN	1617	C33D(TRANS)	2009	C45(2S)	1617	C51Y	2030	C59(2S)	2030
C17OR	1617	C22L	2030	C28H	1617	C33E(TRANS)	2009	C46(2S)	2030	C52	1617	C59A	2030
C17R	1617	C22M	2030	C28J	1617	C33F(TRANS)	2009	C46A(TRANS)	2030	C52A(TRANS)	1617	C59B	2030
C17X	1617	C22OR	2030	C28K	1617	C33G	2009	C46B(TRANS)	2030	C52B(TRANS)	1617	C59C	2030
C17Y	1617	C22R	2030	C28L	1617	C33GN	2009	C46C(TRANS)	2030	C52C(TRANS)	1617	C59D	2030
C18(2S)	2009	C22X	2030	C28M	1617	C33H	2009	C46DB	2030	C52D(TRANS)	1617	C59E	2030
C18A	1617	C22Y	2030	C28OR	1617	C33J	2009	C46E(TRANS)	2030	C52E(TRANS)	1617	C59F	2030
C18B	1617	C23(2S)	2030	C28R	1617	C33K	2009	C46F(TRANS)	2030	C52F(TRANS)	1617	C59G	2030
C18C	1617	C23A	2030	C28X	1617	C33L	2009	C46G(TRANS)	2030	C52G(TRANS)	1617	C59GN	2030
C18D	1617	C23B	2030	C28Y	1617	C33M	2009	C46GN	2030	C52GN	1617	C59H	2030
C18E	1617	C23D	2030	C29(2S)	1617	C33OR	2009	C46H(TRANS)	2030	C52H(TRANS)	1617	C59J	2030
C18F	1617	C23E	2030	C29A	1617	C33R	2009	C46J	2030	C52J	1617	C59K	2030
C18G	1617	C23F	2030	C29B	1617	C33X	2009	C46K	2030	C52K	1617	C59L	2030
C18GN	1617	C23G	2030	C29C	1617	C33Y	2009	C46L	2030	C52L	1617	C59M	2030
C18H	1617	C23GN	2030	C29D	1617	C37(2S)	1617	C46M(TRANS)	2030	C52M(TRANS)	1617	C59OR	2030
C18J	1617	C23H	2030	C29E	1617	C37A(TRANS)	1617	C46OR	2030	C52OR	1617	C59R	2030
C18K	1617	C23H12B	1104	C29F	1617	C37B(TRANS)	1617	C46X	2030	C52X	1617	C59X	2030
C18L	1617	C23J	2030	C29G	1617	C37C(TRANS)	1617	C46Y	2030	C52Y	1617	C59Y	2030
C18M	1617	C23K	2030	C29GN	1617	C37D(TRANS)	1617	C47(2S)	2030	C53	1617	C61(2S)	2030
C18OR	1617	C23L	2030	C29H	1617	C37E(TRANS)	1617	C47A	2030	C53A	1617	C61A	2030
C18R	1617	C23M	2030	C29J	1617	C37F(TRANS)	1617	C47B	2030	C53B	1617	C61B	2030
C18X	1617	C23OR	2030	C29K	1617	C37G(TRANS)	1617	C47C	2030	C53C	1617	C61C	2030
C19(2S)	2030	C23R	2030	C29L	1617	C37GN	1617	C47D	2030	C53D	1617	C61D	2030
C19A	2030	C23X	2030	C29M	1617	C37H	1617	C47E	2030	C53E	1617	C61E	2030
C19B	2030	C23Y	2030	C29OR	1617	C37J	1617	C47G	2030	C53F	1617	C61F	2030
C19C	2030	C24(2S)	2030	C29R	1617	C37K	1617	C47GN	2030	C53G	1617	C61G	2030
C19D	2030	C24A	2030	C29X	1617	C37L	1617	C47H	2030	C53GN	1617	C61GN	2030
C19E	2030	C24B	2030	C29Y	1617	C37M(TRANS)	1617	C47J	2030	C53H	1617	C61H	2030
C19F	2030	C24C	2030	C30(2S)	2030	C37OR	1617	C47K	2030	C53J	1617	C61J	2030
C19G	2030	C24D	2030	C30-OR	2030	C37R	1617	C47L	2080	C53L	1617	C61K	2030
C19GN	2030	C24E	2030	C30A(TRANS)	2030	C37X	1617	C47M	2030	C53OR	1617	C61L	2030
C19H	2030	C24F	2030	C30B(TRANS)	2030	C37Y	1617	C47OR	2030	C53R	1617	C61M	2030
C19J	2030	C24G	2030	C30C(TRANS)	2030	C38	2009	C47R	2030	C53X	1617	C61OR	2030
C19K	2030	C24GN	2030	C30D(TRANS)	2030	C38(2S)	1617	C47X	2030	C53Y	1617	C61R	2030

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C61Y	2030	C68R	1617	C87(2S)	1617	C98F	1617	C104Y	1617	C108A-R	2030	C111E	1617
C62	1617	C68X	1617	C87A	1617	C98G	1617	C105(2S)	1617	C108B	1067	C111E(TRANS)	1617
C62A(TRANS)	1617	C68Y	1617	C87B	1617	C98GN	1617	C105B	1617	C108B(TRANS)	2030	C111F	1617
C62B(TRANS)	1617	C69(2S)	2030	C87C	1617	C98H	1617	C106A	1067	C108B1	1067	C111G	1617
C62C(TRANS)	1617	C69A	2030	C87D	1617	C98J	1617	C106A1	1067	C108B2	1067	C111GN	1617
C62D(TRANS)	1617	C69B	2030	C87E	1617	C98K	1617	C106A2	1067	C108B3	1067	C111H	1617
C62E(TRANS)	1617	C69C	2030	C87F	1617	C98L	1617	C106A3	1067	C108B4	1067	C111J	1617
C62F(TRANS)	1617	C69D	2030	C87G	1617	C98M	1617	C106A4	1067	C108C	1020	C111K	1617
C62G(TRANS)	1617	C69E	2030	C87GN	1617	C98OR	1617	C106B	1067	C108C(TRANS)	2030	C111L	1617
C62GN	1617	C69F	2030	C87H	1617	C98R	1617	C106B1	1067	C108C1	1020	C111M	1617
C62H(TRANS)	1617	C69G	2030	C87J	1617	C98X	1617	C106B2	1067	C108C2	1020	C111OR	1617
C62J	1617	C69GN	2030	C87K	1617	C98Y	1617	C106B3	1067	C108C3	1020	C111R	1617
C62L	1617	C69H	2030	C87L	1617	C99(2S)	1617	C106B4	1067	C108C4	1020	C111X	1617
C62M	1617	C69J	2030	C87M	1617	C99A	1617	C106C	1020	C108D	1020	C111Y	1617
C62OR	1617	C69K	2030	C87OR	1617	C99B	1617	C106C1	1020	C108D(TRANS)	2030	C112(2S)	2030
C62R	1617	C69L	2030	C87R	1617	C99C	1617	C106C2	1020	C108D1	1020	C112A	2030
C62X	1617	C69M	2030	C87X	1617	C99D	1617	C106C3	1020	C108D2	1020	C112B	2030
C62Y	1617	C69OR	2030	C87Y	1617	C99E	1617	C106C4	1020	C108D3	1020	C112C	2030
C63	1617	C69R	2030	C88(2S)	2030	C99F	1617	C106D	1020	C108D4	1020	C112D	2030
C63(2S)	2016	C69X	2030	C88A(2S)	2030	C99G	1617	C106D1	1020	C108E(TRANS)	2030	C112E	2030
C63A	2016	C69Y	2030	C88B	2030	C99GN	1617	C106D2	1020	C108F	1067	C112F	2030
C63B	2016	C74(2S)	1617	C88C	2030	C99H	1617	C106D3	1020	C108F(TRANS)	2030	C112G	2030
C63D	2016	C74-GR	1617	C88D	2030	C99J	1617	C106D4	1020	C108F1	1067	C112GN	2030
C63E	2016	C74-O	1617	C88E	2030	C99K	1617	C106F	1067	C108F2	1067	C112H	2030
C63F	2016	C74-R	1617	C88F	2030	C99L	1617	C106F1	1067	C108F3	1067	C112J	2030
C63G	2016	C74-Y	1617	C88G	2030	C99M	1617	C106F2	1067	C108F4	1067	C112K	2030
C63GN	2016	C74A	1617	C88GN	2030	C99OR	1617	C106F3	1067	C108G	2030	C112L	2030
C63H	2016	C74B	1617	C88H	2030	C99R	1617	C106F4	1067	C108GN	2030	C112M	2030
C63J	2016	C74C	1617	C88J	2030	C99X	1617	C106G1	1067	C108H	2030	C112OR	2030
C63K	2016	C74D	1617	C88K	2030	C99Y	1617	C106G2	1067	C108J	2030	C112R	2030
C63L	2016	C74E	1617	C88L	2030	C100(2S)	1617	C106G3	1067	C108K	2030	C112X	2030
C63M	2016	C74F	1617	C88M	2030	C100-OV(2S)	1617	C106Q	1067	C108L	2030	C112Y	2030
C63OR	2016	C74G	1617	C88OR	2030	C100A	1617	C106Q1	1067	C108M(TRANS)	2030	C113(2S)	2030
C63R	2016	C74GN	1617	C88R	2030	C100B	1617	C106Q2	1067	C108OR	2030	C113A	2030
C63X	2016	C74H	1617	C88X	2030	C100C	1617	C106Q3	1067	C108Q2	1067	C113B	2030
C63Y	2016	C74J	1617	C88Y	2030	C100D	1617	C106Q4	1067	C108Q3	1067	C113C	2030
C64	2030	C74K	1617	C92(2S)	2020	C100E	1617	C106Y	1067	C108Q4	1067	C113D	2030
C64(2S)	2030	C74L	1617	C93(2S)	2020	C100F	1617	C106Y1	1067	C108R	2030	C113E	2030
C64A	2030	C74M	1617	C94(2S)	2020	C100G	1617	C106Y2	1067	C108X	2030	C113F	2030
C64B	2030	C74R	1617	C94AP	2020	C100GN	1617	C106Y3	1067	C108Y(TRANS)	2030	C113G	2030
C64C	2030	C74X	1617	C94E	2062	C100J	1617	C106Y4	1067	C108Y2	1067	C113GM	2030
C64D	2030	C74Y	1617	C95	2030	C100L	1617	C107	2020	C108Y3	1067	C113H	2030
C64E	2030	C79(2S)	2058	C95(2S)	2030	C100M	1617	C107A	1067	C108Y4	1067	C113J	2030
C64F	2030	C79A	2058	C95A	2030	C100OR	1617	C107A1	1067	C109(2S)	2030	C113K	2030
C64G	2030	C79B	2058	C95A(2S)	2030	C100R	1617	C107A2	1067	C109A(2S)	2030	C113L	2030
C64GN	2030	C79C	2058	C95B	2030	C100X	1617	C107A3	1067	C109A-O	2030	C113M	2030
C64H	2030	C79D	2058	C95C	2030	C100Y	1617	C107B	1067	C109A-R	2030	C113OR	2030
C64K	2030	C79E	2058	C95D	2030	C103	1617	C107B1	1067	C109A-Y	2030	C113R	2030
C64L	2030	C79F	2058	C95E(2S)	2030	C103(2S)	1617	C107B2	1067	C109B	2030	C113X	2030
C64M	2030	C79G	2058	C95F	2030	C103A(2S)	1617	C107B3	1067	C109C	2030	C113Y	2030
C64OR	2030	C79GN	2058	C95G	2030	C103A(SCR)	1067	C107B4	1067	C109D	2030	C114(2S)	2030
C64R	2030	C79H	2058	C95GN	2030	C103B	1067	C107C	1020	C109E	2030	C114A	2030
C64X	2030	C79J	2058	C95H	2030	C103B(2S)	1617	C107C1	1020	C109F	2030	C114B	2030
C64Y	2030	C79K	2058	C95J	2030	C103C	1617	C107C2	1020	C109G	2030	C114C	2030
C64Y-RST	2030	C79L	2058	C95K	2030	C103D	1617	C107C3	1020	C109G1	2030	C114D	2030
C67(2S)	1617	C79M	2058	C95L	2030	C103E	1617	C107C4	1020	C109GN	2030	C114E	2030
C67A	1617	C79OR	2058	C95M	2030	C103F	1617	C107D	1020	C109J	2030	C114F	2030
C67B	1617	C79R	2058	C95OR	2030	C103G	1617	C107D1	1020	C109K	2030	C114G	2030
C67C	1617	C79X	2058	C95R	2030	C103GN	1617	C107D2	1020	C109L	2030	C114GN	2030
C67D	1617	C79Y	2058	C95X	2030	C103H	1617	C107D3	1020	C109OR	2030	C114H	2030
C67E	1617	C80	2016	C95Y	2030	C103J	1617	C107D4	1020	C109R	2030	C114J	2030
C67F	1617	C80(2S)	2016	C96	2009	C103K	1617	C107F	1067	C109X	2030	C114K	2030
C67G	1617	C80A(TRANS)	2016	C97	2030	C103L	1617	C107F1	1067	C109Y	2030	C114L	2030
C67GN	1617	C80B(TRANS)	2016	C97(2S)	2030	C103M	1617	C107F2	1067	C110(2S)	1617	C114M	2030
C67H	1617	C80C(TRANS)	2016	C97A(2S)	2030	C103Q	1067	C107F3	1067	C110A	1617	C114OR	2030
C67J	1617	C80D(TRANS)	2016	C97B	2030	C103X	1617	C107F4	1067	C110B	1617	C114R	2030
C67K	1617	C80E(TRANS)	2016	C97C	2030	C103Y	1067	C107G4	2020	C110C	1617	C114X	2030
C67L	1617	C80F(TRANS)	2016	C97D	2030	C103Y(2S)	1617	C107G5	2020	C110D	1617	C114Y	2030
C67M	1617	C80G	2016	C97E	2030	C103YY	1067	C107G6	2020	C110E	1617	C115(2S)	2030
C67R	1617	C80G(TRANS)	2016	C97F	2030	C104	1617	C107Q	1067	C110F	1617	C115-1	2030
C67X	1617	C80GN	2016	C97G	2030	C104(2S)	1617	C107Q1	1067	C110G	1617	C115-2	2030
C67Y	1617	C80H(TRANS)	2016	C97GN	2030	C104A(2S)	1617	C107Q2	1067	C110GN	1617	C115-3	2030
C68(2S)	1617	C80J	2016	C97H	2030	C104B	1617	C107Q3	1067	C110H	1617	C115-43	2030
C68A	1617	C80K	2016	C97J	2030	C104C	1617	C107Q4	1067	C110J	1617	C115A	2030
C68B	1617	C80L	2016	C97K	2030	C104D	1617	C107Y	1067	C110K	1617	C115B	2030
C68C	1617	C80M(TRANS)	2016	C97L	2030	C104E	1617	C107Y1	1067	C110L	1617	C115C	2030
C68D	1617	C80OR	2016	C97M	2030	C104F	1617	C107Y2	1067	C110M	1617	C115D	2030
C68E	1617	C80R	2016	C97OR	2030	C104G	1617	C107Y3	1067	C110OR	1617	C115E	2030
C68F	1617	C80X	2016	C97R	2030	C104GN	1617	C107Y4	1067	C110R	1617	C115F	2030
C68G	1617	C80Y	2016	C97X	2030	C104H	1617	C108(2S)	2030	C110X	1617	C115G	2030
C68GN	1617	C82	2016	C97Y	2030	C104J	1617	C108A	1067	C110Y	1617	C115GN	2030
C68H	1617	C82BN	2016	C98(2S)	1617	C104K	1617	C108A(TRANS)	2030	C111(2S)	1617	C115H	2030
C68J	1617	C82R	2016	C98A	1617	C104L	1617	C108A1	1067	C111A	1617	C115J	2030
C68K	1617	C82S	2016	C98B	1617	C104M	1617	C108A2	1067	C111B	2016	C115K	2030
C68L	1617	C83	2016	C98C	1617	C104OR	1617	C108A3	1067	C111B(TRANS)	1617	C115L	2030
C68M	1617	C83-829	1104	C98D	1617	C104R	1617	C108A4	1067	C111C	1617	C115M	2030
C68OR	1617	C83-880	1104	C98E(2S)	1617	C104X	1617	C108A-O	2030	C111D	1617	C115OR	2030

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C115K	2030	C120H	1617	C127K	1617	C134L	1617	C140K	2030	C152HC	1617	C159F	1617
C115X	2030	C120R	1617	C127L	1617	C134M	1617	C140L	2030	C152J	1617	C159G	1617
C115Y	2030	C120Y	1617	C127M(TRANS)	1617	C134OR	1617	C140M	2030	C152K	1617	C159H	1617
C116(2S)	2009	C121(2S)	2030	C127OR	1617	C134K	1617	C140OR	2030	C152L	1617	C159J	1617
C116-OR	2009	C121A	2030	C127R	1617	C134X	1617	C140X	2030	C152M(TRANS)	1617	C159K	1617
C116A(TRANS)	2009	C121B	2030	C127X	1617	C134Y	1617	C140Y	2030	C152OR	1617	C159L	1617
C116B(TRANS)	2009	C121C	2030	C127Y	1617	C135(2S)	1617	C140Y	2030	C152R	1617	C159M(TRANS)	1617
C116C(TRANS)	2009	C121D	2030	C130(2S)	2030	C135A(TRANS)	1617	C141	2009	C152X	1617	C159OR	1617
C116D(TRANS)	2009	C121E	2030	C130A	2030	C135B(TRANS)	1617	C142	2009	C152Y	1617	C159R	1617
C116E	2009	C121F	2030	C130B	2030	C135C(TRANS)	1617	C143	2009	C153	2009	C159S	1617
C116F(TRANS)	2009	C121G	2030	C130C	2030	C135D(TRANS)	1617	C144	2009	C154D	2030	C159Y	1617
C116G	2009	C121GN	2030	C130D	2030	C135E(TRANS)	1617	C144A	2009	C155	2016	C160(2S)	1617
C116GM	2009	C121H	2030	C130E	2030	C135F(TRANS)	1617	C145	2009	C155(2S)	2016	C160A	1617
C116H	2009	C121I	2030	C130F	2030	C135G	1617	C146	2009	C155A(TRANS)	2016	C160B	1617
C116J	2009	C121J	2030	C130GN	2030	C135GN	1617	C146A(2S)	2009	C155B(TRANS)	2016	C160C	1617
C116K	2009	C121M	2030	C130H	2030	C135H	1617	C146B	1617	C155C(TRANS)	2016	C160D	1617
C116L	2009	C121OR	2030	C130J	2030	C135J	1617	C148	2016	C155D(TRANS)	2016	C160E	1617
C116M(TRANS)	2009	C121R	2030	C130K	2030	C135L	1617	C148A	2016	C155E(TRANS)	2016	C160F	1617
C116OR	2009	C121X	2030	C130L	2030	C135M(TRANS)	1617	C148B	2016	C155F	2016	C160G	1617
C116R	2009	C121Y	2030	C130M	2030	C135OR	1617	C148D	2016	C155GN	2016	C160GN	1617
C117(2S)	2009	C122	2009	C130OR	2030	C135R	1617	C148E	2016	C155H	2016	C160H	1617
C117A	2009	C122(2S)	2030	C130R	2030	C135X	1617	C148F	2016	C155J	2016	C160J	1617
C117Y	2009	C122A(TRANS)	2030	C130X	2030	C135Y	1617	C148G	2016	C155K	2016	C160K	1617
C117(2S)	2030	C122B(TRANS)	2030	C130Y	2030	C136(2S)	1617	C148GN	2016	C155L	2016	C160L	1617
C117A	2030	C122C(TRANS)	2030	C131(2S)	1617	C136D(2S)	1617	C148H	2016	C155M(TRANS)	2016	C160M	1617
C117B	2030	C122D(TRANS)	2030	C131A	1617	C137	1617	C148J	2016	C155OR	2016	C160OR	1617
C117C	2030	C122E(TRANS)	2030	C131B	1617	C137A	1617	C148K	2016	C155R	2016	C160R	1617
C117D	2030	C122F(TRANS)	2030	C131C	1617	C137B	1617	C148L	2016	C155X	2016	C160X	1617
C117F	2030	C122G	2030	C131D	1617	C137C	1617	C148M(TRANS)	2016	C155Y	2016	C160Y	1617
C117G	2030	C122GN	2030	C131E	1617	C137D	1617	C148OR	2016	C156(2S)	2016	C162	2009
C117GN	2030	C122H	2030	C131F	1617	C137E(TRANS)	1617	C148R	2016	C156A(TRANS)	2016	C166	1617
C117H	2030	C122J	2030	C131G	1617	C137F	1617	C148X	2016	C156B(TRANS)	2016	C166(2S)	1617
C117J	2030	C122K	2030	C131GN	1617	C137G	1617	C148Y	2016	C156C(TRANS)	2016	C166A	1617
C117K	2030	C122L	2030	C131H	1617	C137GN	1617	C149	2080	C156D(TRANS)	2016	C166B	1617
C117L	2030	C122M(TRANS)	2030	C131J	1617	C137H	1617	C150(2S)	2080	C156E(TRANS)	2016	C166C	1617
C117M	2030	C122OR	2030	C131L	1617	C137J	1617	C150-OR	2030	C156F	2016	C166D	1617
C117OR	2030	C122R	2030	C131M	1617	C137K	1617	C150A	2030	C156G(TRANS)	2016	C166E	1617
C117R	2030	C122X	2030	C131OR	1617	C137L	1617	C150B	2030	C156GN	2016	C166F	1617
C117X	2030	C122Y	2030	C131R	1617	C137M(TRANS)	1617	C150C	2030	C156H	2016	C166G	1617
C117Y	2030	C123	2030	C131T	1617	C137OR	1617	C150D	2030	C156J	2016	C166GN	1617
C118(2S)	2030	C123A	2030	C131Y	1617	C137R	1617	C150E(TRANS)	2030	C156K	2016	C166H	1617
C118A(TRANS)	2030	C123B	2030	C132(2S)	1617	C137X	1617	C150F	2030	C156L	2016	C166J	1617
C118B(TRANS)	2030	C123C	2030	C132A	1617	C137Y	1617	C150G	2030	C156M(TRANS)	2016	C166K	1617
C118C(TRANS)	2030	C123D	2030	C132B	1617	C138	1617	C150GN	2030	C156OR	2030	C166L	1617
C118D(TRANS)	2030	C123E	2030	C132C	1617	C138A(2S)	1617	C150H	2030	C156R	2016	C166M	1617
C118E(TRANS)	2030	C123F	2030	C132D	1617	C138B	1617	C150J	2030	C156X	2016	C166OR	1617
C118F(TRANS)	2030	C123G	2030	C132E	1617	C138C	1617	C150K	2030	C156Y	2016	C166R	1617
C118G	2030	C123GN	2030	C132F	1617	C138D	1617	C150L	2030	C157(2S)	2016	C166X	1617
C118GN	2030	C123H	2030	C132G	1617	C138E	1617	C150M(TRANS)	2030	C157A(TRANS)	1617	C166Y	1617
C118H	2030	C123J	2030	C132GN	1617	C138F	1617	C150OR	2030	C157B(TRANS)	1617	C167(2S)	1617
C118J	2030	C123K	2030	C132H	1617	C138G	1617	C150R	2030	C157C(TRANS)	1617	C167A	1617
C118L	2030	C123L	2030	C132J	1617	C138GN	1617	C150T	2030	C157D(TRANS)	1617	C167B	1617
C118M(TRANS)	2030	C123M	2030	C132K	1617	C138H	1617	C150(2S)	2030	C157E(TRANS)	1617	C167C	1617
C118OR	2030	C123OR	2030	C132L	1617	C138J	1617	C150X	2030	C157F	1617	C167D	1617
C118R	2030	C123R	2030	C132M	1617	C138L	1617	C150Y	2030	C157G(TRANS)	1617	C167E	1617
C118X	2030	C123X	2030	C132OR	1617	C138M	1617	C151(2S)	1617	C157GN	1617	C167F	1617
C118Y	2030	C123Y	2030	C132R	1617	C138OR	1617	C151A	1617	C157J	1617	C167G	1617
C119(2S)	2030	C124(2S)	2030	C132X	1617	C138R	1617	C151B	1617	C157K	1617	C167GN	1617
C119A	2030	C124A(TRANS)	2030	C132Y	1617	C138S	1617	C151C	1617	C157L	1617	C167H	1617
C119B	2030	C124B(TRANS)	2030	C133(2S)	1617	C138X	1617	C151D	1617	C157M(TRANS)	1617	C167K	1617
C119C	2030	C124C(TRANS)	2030	C133A	1617	C139	1617	C151E(TRANS)	1617	C157OR	1617	C167L	1617
C119D	2030	C124D(TRANS)	2030	C133C	1617	C139A	1617	C151G	1617	C157R	1617	C167M	1617
C119E	2030	C124E(TRANS)	2030	C133D	1617	C139B	1617	C151GN	1617	C157Y	1617	C167OR	1617
C119F	2030	C124F(TRANS)	2030	C133E	1617	C139C	1617	C151H	1617	C158(2S)	1617	C167X	1617
C119G	2030	C124G	2030	C133F	1617	C139D	1617	C151NA	1617	C158A	1617	C167Y	1617
C119GN	2030	C124GN	2030	C133G	1617	C139E	1617	C151HB	1617	C158B	1617	C168	2009
C119H	2030	C124H	2030	C133GN	1617	C139F	1617	C151HC	1617	C158C	1617	C169(2S)	1617
C119J	2030	C124J	2030	C133H	1617	C139G	1617	C151J	1617	C158D	1617	C170(2S)	1617
C119K	2030	C124K	2030	C133J	1617	C139GN	1617	C151K	1617	C158E(TRANS)	1617	C170A	1617
C119L	2030	C124L	2030	C133K	1617	C139H	1617	C151L	1617	C158F	1617	C170B	1617
C119M	2030	C124M(TRANS)	2030	C133L	1617	C139J	1617	C151M(TRANS)	1617	C158G(TRANS)	1617	C170C	1617
C119OR	2030	C124OR	2030	C133M	1617	C139K	1617	C151OR	1617	C158H	1617	C170D	1617
C119R	2030	C124R	2030	C133OR	1617	C139M	1617	C151R	1617	C158I	1617	C170E	1617
C119X	2030	C124X	2030	C133X	1617	C139OR	1617	C151X	1617	C158J	1617	C170F	1617
C119Y	2030	C124Y	2030	C133Y	1617	C139R	1617	C151Y	1617	C158K	1617	C170G	1617
C120(2S)	1617	C125(2S)	2030	C134(2S)	1617	C139X	1617	C152	1617	C158L	1617	C170GN	1617
C120A	1617	C127(2S)	1617	C134A	1617	C139Y	1617	C152A	1617	C158M(TRANS)	1617	C170H	1617
C120B	1617	C127A(TRANS)	1617	C134B(2S)	1617	C140	2030	C152B	1617	C158OR	1617	C170J	1617
C120C	1617	C127B(TRANS)	1617	C134C	1617	C140A(TRANS)	2030	C152C	1617	C158R	1617	C170K	1617
C120D	1617	C127C(TRANS)	1617	C134D	1617	C140C(TRANS)	2030	C152D	1617	C158X	1617	C170L	1617
C120E	1617	C127D(TRANS)	1617	C134E	1617	C140D(TRANS)	2030	C152E(TRANS)	1617	C158Y	1617	C170M	1617
C120F	1617	C127E(TRANS)	1617	C134F	1617	C140E	2030	C152F	1617	C159(2S)	1617	C170OR	1617
C120G	1617	C127F(TRANS)	1617	C134G	1617	C140F(TRANS)	2030	C152G	1617	C159A	1617	C170R	1617
C120GN	1617	C127G	1617	C134GN	1617	C140G	2030	C152GN	1617	C159B	1617	C170Y	1617
C120H	1617	C127GN	1617	C134H	1617	C140GN	2030	C152H	1617	C159C	1617	C170Y	1617
C120J	1617	C127H	1617	C134J	1617	C140H	2030	C152HA	1617	C159D	1617	C171(2S)	1617
C120K	1617	C127J	1617	C134K	1617	C140J	2030	C152HB	1617	C159E(TRANS)	1617	C171A	1617

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C171B	1617	C187R	2016	C192M	1617	C197L	1617	C204A	1617	C210OR	2030	C218M	2030
C171C	1617	C187X	2016	C192OR	1617	C197M	1617	C204B	1617	C210R	2030	C218OR	2030
C171D	1617	C187Y	2016	C192R	1617	C197OR	1617	C204C	1617	C210X	2030	C218R	2030
C171E	1617	C188(2S)	2030	C192X	1617	C197R	1617	C204D	1617	C210Y	2030	C218X	2030
C171F	1617	C188A(2S)	2030	C192Y	1617	C197X	1617	C204E	1617	C211(2S)	2030	C218Y	2030
C171G	1617	C188AB(2S)	2030	C193(2S)	1617	C197Y	1617	C204F	1617	C211A	2030	C219	2016
C171GN	1617	C188B	2030	C193A	1617	C198(2S)	2041	C204G	1617	C211B	2030	C220(2S)	2030
C171H	1617	C188C	2030	C193B	1617	C198A	2041	C204GN	1617	C211C	2030	C220A(TRANS)	2030
C171J	1617	C188D	2030	C193C	1617	C198H	2041	C204H	1617	C211D	2030	C220B(TRANS)	2030
C171K	1617	C188E	2030	C193D	1617	C199(2S)	1617	C204J	1617	C211F	2030	C220C(TRANS)	2030
C171L	1617	C188F	2030	C193E	1617	C199A	1617	C204K	1617	C211G	2030	C220D(TRANS)	2030
C171M	1617	C188G	2030	C193F	1617	C199B	1617	C204L	1617	C211GN	2030	C220E(TRANS)	2030
C171OR	1617	C188GN	2030	C193G	1617	C199C	1617	C204M	1617	C211H	2030	C220F(TRANS)	2030
C171R	1617	C188J	2030	C193GN	1617	C199D	1617	C204OR	1617	C211J	2030	C220G	2030
C171X	1617	C188K	2030	C193H	1617	C199E	1617	C204R	1617	C211K	2030	C220GN	2030
C171Y	1617	C188L	2030	C193J	1617	C199F	1617	C204X	1617	C211L	2030	C220H	2030
C172(2S)	1617	C188M	2030	C193K	1617	C199G	1617	C204Y	1617	C211M	2030	C220K	2030
C172A(2S)	1617	C188OR	2030	C193L	1617	C199GN	1617	C205(2S)	1617	C211OR	2030	C220L	2030
C172B	1617	C188R	2030	C193M	1617	C199H	1617	C205A(TRANS)	1617	C211R	2030	C220M(TRANS)	2030
C172C	1617	C188X	2030	C193OR	1617	C199J	1617	C205B(TRANS)	1617	C211X	2030	C220OR	2030
C172D	1617	C188Y	2030	C193R	1617	C199K	1617	C205C(TRANS)	1617	C211Y	2030	C220R	2030
C172E	1617	C189(2S)	2030	C193X	1617	C199L	1617	C205D(TRANS)	1617	C212(2S)	2030	C220X	2030
C172F	1617	C189A	2030	C194(2S)	1617	C199M	1617	C205F	1617	C212A	2030	C220Y	2030
C172G	1617	C189B	2030	C194A	1617	C199OR	1617	C205G	1617	C212B	2030	C221(2S)	2030
C172GN	1617	C189C	2030	C194B	1617	C199R	1617	C205GN	1617	C212C	2030	C221A	2030
C172H	1617	C189D	2030	C194C	1617	C199X	1617	C205H	1617	C212D	2030	C221B	2030
C172J	1617	C189E	2030	C194D	1617	C199Y	1617	C205J	1617	C212E	2030	C221C	2030
C172K	1617	C189F	2030	C194E	1617	C200	1617	C205K	1617	C212F	2030	C221D	2030
C172L	1617	C189G	2030	C194F	1617	C200A	1617	C205L	1617	C212G	2030	C221E	2030
C172M	1617	C189GN	2030	C194G	1617	C200B	1617	C205M	1617	C212GN	2030	C221F	2030
C172OR	1617	C189H	2030	C194GN	1617	C200C	1617	C205OR	1617	C212H	2030	C221G	2030
C172R	1617	C189J	2030	C194H	1617	C200D	1617	C205R	1617	C212J	2030	C221GN	2030
C172Y	1617	C189K	2030	C194J	1617	C200E	1617	C205X	1617	C212K	2030	C221H	2030
C174(2S)	1617	C189L	2030	C194K	1617	C200F	1617	C205Y(TRANS)	1617	C212L	2030	C221J	2030
C174A(2S)	1617	C189M	2030	C194L	1617	C200G	1617	C206(2S)	2016	C212M	2030	C221K	2030
C174B	1617	C189OR	2030	C194M	1617	C200GN	1617	C206-OR	2016	C212OR	2030	C221L	2030
C174C	1617	C189R	2030	C194OR	1617	C200H	1617	C206A	2016	C212R	2030	C221M	2030
C174D	1617	C189X	2030	C194X	1617	C200J	1617	C206B	2016	C212X	2030	C221OR	2030
C174E	1617	C189Y	2030	C194Y	1617	C200K	1617	C206C	2016	C212Y	2030	C221R	2030
C174F	1617	C190(2S)	2030	C195(2S)	1617	C200L	1617	C206D	2016	C216(2S)	2030	C221X	2030
C174G	1617	C190A	2030	C195A	1617	C200M	1617	C206E	2016	C216A	2030	C221Y	2030
C174GN	1617	C190B	2030	C195B	1617	C200OR	1617	C206G	2016	C216B	2030	C222(2S)	2030
C174H	1617	C190C	2030	C195C	1617	C200R	1617	C206GN	2016	C216C	2030	C222A(TRANS)	2030
C174J	1617	C190D	2030	C195D	1617	C200X	1617	C206H	2016	C216D	2030	C222B(TRANS)	2030
C174K	1617	C190E	2030	C195E	1617	C200Y	1617	C206J	2016	C216E	2030	C222C(TRANS)	2030
C174L	1617	C190F	2030	C195F	1617	C201(2S)	1617	C206K	2016	C216F	2030	C222D(TRANS)	2030
C174M	1617	C190GN	2030	C195G	1617	C201A	1617	C206L	2016	C216G	2030	C222E(TRANS)	2030
C174OR	1617	C190H	2030	C195GN	1617	C201B	1617	C206M	2016	C216GN	2030	C222F(TRANS)	2030
C174Q	1617	C190J	2030	C195H	1617	C201C	1617	C206OR	2016	C216H	2030	C222G	2030
C174R	1617	C190K	2030	C195J	1617	C201D	1617	C206R	2016	C216J	2030	C222GN	2030
C174S	1617	C190L	2030	C195K	1617	C201E	1617	C206RED	2016	C216K	2030	C222H	2030
C174X	1617	C190M	2030	C195L	1617	C201F	1617	C206WHITE	2016	C216L	2030	C222J	2030
C174Y	1617	C190OR	2030	C195M	1617	C201G	1617	C206X	2016	C216M	2030	C222L	2030
C186(2S)	2016	C190R	2030	C195OR	1617	C201GN	1617	C206Y	2016	C216OR	2030	C222M(TRANS)	2030
C186A	2016	C190X	2030	C195R	1617	C201H	1617	C208(2S)	2016	C216R	2030	C222OR	2030
C186B	2016	C190Y	2030	C195X	1617	C201J	1617	C208A	2016	C216X	2030	C222R	2030
C186C	2016	C191(2S)	1617	C195Y	1617	C201K	1617	C208B	2016	C216Y	2030	C222X	2030
C186D	2016	C191A	1617	C196(2S)	1617	C201L	1617	C208C	2016	C217(2S)	2030	C222Y	2030
C186E	2016	C191B	1617	C196A	1617	C201M	1617	C208D	2016	C217A	2030	C225(2S)	2030
C186F	2016	C191C	1617	C196B	1617	C201R	1617	C208E	2016	C217B	2030	C225A	2030
C186G	2016	C191D	1617	C196C	1617	C201X	1617	C208F	2016	C217C	2030	C225B	2030
C186GN	2016	C191E	1617	C196D	1617	C201Y	1617	C208G	2016	C217D	2030	C225C	2030
C186H	2016	C191F	1617	C196E	1617	C202(2S)	1617	C208GN	2016	C217E	2030	C225D	2030
C186J	2016	C191G	1617	C196F	1617	C202A	1617	C208H	2016	C217F	2030	C225E	2030
C186K	2016	C191GN	1617	C196G	1617	C202B	1617	C208J	2016	C217G	2030	C225F	2030
C186L	2016	C191H	1617	C196GN	1617	C202C	1617	C208K	2016	C217GN	2030	C225G	2030
C186M	2016	C191J	1617	C196H	1617	C202D	1617	C208L	2016	C217H	2030	C225GN	2030
C186OR	2016	C191K	1617	C196J	1617	C202E	1617	C208M	2016	C217J	2030	C225H	2030
C186R	2016	C191L	1617	C196K	1617	C202F	1617	C208OR	2016	C217K	2030	C225J	2030
C186X	2016	C191M	1617	C196L	1617	C202G	1617	C208R	2016	C217L	2030	C225L	2030
C186Y	2016	C191OR	1617	C196M	1617	C202GN	1617	C208X	2016	C217M	2030	C225M	2030
C187(2S)	2016	C191R	1617	C196OR	1617	C202H	1617	C208Y	2016	C217OR	2030	C225OR	2030
C187-OR	2016	C191X	1617	C196R	1617	C202J	1617	C210	2030	C217R	2030	C225R	2030
C187A	2016	C191Y	1617	C196X	1617	C202K	1617	C210(2S)	2030	C217X	2030	C225X	2030
C187B	2016	C192(2S)	1617	C196Y	1617	C202L	1617	C210A	2030	C217Y	2030	C225Y	2030
C187C	2016	C192A	1617	C197(2S)	1617	C202M	1617	C210B	2030	C218(2S)	2030	C226(2S)	2030
C187D	2016	C192B	1617	C197A	1617	C202OR	1617	C210C	2030	C218A(2S)	2030	C226A	2030
C187E	2016	C192C	1617	C197B	1617	C202R	1617	C210D	2030	C218B	2030	C226B	2030
C187F	2016	C192D	1617	C197C	1617	C202X	1617	C210E	2030	C218C	2030	C226C	2030
C187G	2016	C192E	1617	C197D	1617	C202Y	1617	C210F	2030	C218D	2030	C226D	2030
C187H	2016	C192F	1617	C197E	1617	C203A	1067	C210G	2030	C218E	2030	C226E	2030
C187I	2016	C192G	1617	C197F	1617	C203B	1067	C210GN	2030	C218F	2030	C226F	2030
C187J	2016	C192GN	1617	C197G	1617	C203C	1020	C210H	2030	C218G	2030	C226G	2030
C187K	2016	C192H	1617	C197GN	1617	C203D	1020	C210J	2030	C218GN	2030	C226GN	2030
C187L	2016	C192J	1617	C197H	1617	C203Y	1067	C210K	2030	C218H	2030	C226H	2030
C187M	2016	C192K	1617	C197J	1617	C203YY	1067	C210L	2030	C218J	2030	C226J	2030
C187OR	2016	C192L	1617	C197K	1617	C204(2S)	1617	C210M	2030	C218L	2030	C226K	2030

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
C226A	2030	C227H	1617	C241G	2041	C265C	2016	C271R	2016	C284Y	1617	C301GN	1617
C226M	2030	C227J	1617	C2420M	2041	C265D	2016	C271X	2016	C284Z	2016	C301H	1617
C226OR	2030	C227K	1617	C242H	2041	C265E	2016	C271Y	2016	C285A(TRANS)	2016	C301J	1617
C226P	2030	C227L	1617	C243J	2041	C265F	2016	C272(2S)	2016	C286B	2016	C301K	1617
C226X	2030	C227M	1617	C243K	2041	C265G	2016	C272A	2016	C286E(TRANS)	2016	C301L	1617
C226Y	2030	C227OR	1617	C242L	2041	C265GN	2016	C272B	2016	C286C(TRANS)	2016	C301M	1617
C227(2S)	2030	C227R	1617	C242M	2041	C265H	2016	C272C	2016	C286D(TRANS)	2016	C301OR	1617
C227A	2030	C227X	1617	C242OR	2041	C265J	2016	C272D	2016	C286E	2016	C301R	1617
C227B	2030	C227Y	1617	C242R	2041	C265K	2016	C272E	2016	C286E(TRANS)	2016	C301X	1617
C227C	2030	C228(2S)	1617	C242X	2041	C265L	2016	C272F	2016	C286F	2016	C301Y	1617
C227D	2030	C228A	1617	C242Y	2041	C265M	2016	C272G	2016	C286G	2016	C302(2S)	1617
C227E	2030	C228B	1617	C243(2S)	2041	C265OR	2016	C272GN	2016	C286GN	2016	C302A	1617
C227F	2030	C228C	1617	C243(2S)	2041	C265R	2016	C272H	2016	C286H	2016	C302B	1617
C227G	2030	C228D	1617	C247A	2030	C265X	2016	C272J	2016	C286J	2016	C302C	1617
C227GN	2030	C228E	1617	C247B	2030	C265Y	2016	C272K	2016	C286K	2016	C302D	1617
C227H	2030	C228F	1617	C247C	2030	C266	2009	C272L	2016	C286L	2016	C302E	1617
C227J	2030	C228G	1617	C247D	2030	C265	2009	C272M	2016	C286M(TRANS)	2016	C302F	1617
C227K	2030	C228GN	1617	C247E	2030	C267(2S)	1617	C272OR	2016	C286OR	2016	C302G	1617
C227L	2030	C228H	1617	C247F	2030	C267A(2S)	1617	C272R	2016	C286R	2016	C302GN	1617
C227M	2030	C228J	1617	C247G	2030	C267B	1617	C272X	2016	C286X	2016	C302H	1617
C227OR	2030	C228K	1617	C247GN	2030	C267C	1617	C272Y	2016	C286Y	2016	C302J	1617
C227R	2030	C228L	1617	C247H	2030	C267D	1617	C280	2016	C289(2S)	2016	C302K	1617
C227X	2030	C228M	1617	C247J	2030	C267E	1617	C286AO	2009	C289A	2016	C302L	1617
C227Y	2030	C228OR	1617	C247L	2030	C267F	1617	C281(2S)	2009	C289B	2016	C302M	1617
C228(2S)	2030	C228R	1617	C247M	2030	C267G	1617	C281-OR	2009	C289C	2016	C302OR	1617
C228A(TRANS)	2030	C228X	1617	C247OR	2030	C267GN	1617	C281A(2S)	2009	C289D	2016	C302R	1617
C228B(TRANS)	2030	C228Y	1617	C247R	2030	C267H	1617	C281B(2S)	2009	C289E	2016	C302X	1617
C228C(TRANS)	2030	C229(2S)	1617	C247X	2030	C267J	1617	C281BL	2009	C289F	2016	C302Y	1617
C228D(TRANS)	2030	C229A	1617	C247Y	2030	C267K	1617	C281C(2S)	2009	C289G	2016	C306(2S)	2030
C228E(TRANS)	2030	C229B	1617	C248(2S)	1617	C267L	1617	C281C-EP(2S)	2009	C289GN	2016	C306A	2030
C228F(TRANS)	2030	C229C	1617	C248A	1617	C267M	1617	C281D(2S)	2009	C289H	2016	C306B	2030
C228G	2030	C229D	1617	C248B	1617	C267OR	1617	C281E	2009	C289J	2016	C306C	2030
C228H	2030	C229E	1617	C248C	1617	C267R	1617	C281EP(2S)	2009	C289K	2016	C306D	2030
C228J	2030	C229F	1617	C248D	1617	C267X	1617	C281F	2009	C289L	2016	C306E	2030
C228K	2030	C229G	1617	C248E	1617	C267Y	1617	C281G	2009	C289M	2016	C306F	2030
C228L	2030	C229GN	1617	C248F	1617	C268(2S)	2030	C281GN	2009	C289OR	2016	C306G	2030
C228M(TRANS)	2030	C229H	1617	C248G	1617	C268-OR	2030	C281H(2S)	2009	C289R	2016	C306GN	2030
C228OR	2030	C229J	1617	C248J	1617	C268A(2S)	2030	C281HB	1617	C289X	2016	C306H	2030
C228R	2030	C229K	1617	C248K	1617	C268B	2030	C281J	2009	C289Y	2016	C306J	2030
C228X	2030	C229L	1617	C248L	1617	C268C	2030	C281K	2009	C291	2030	C306K	2030
C228Y	2030	C229M	1617	C248M	1617	C268D	2030	C281L	2009	C291A(TRANS)	2030	C306L	2030
C229	2030	C229OR	1617	C248OR	1617	C268E	2030	C281M	2009	C291B(TRANS)	2030	C306M	2030
C229(2S)	2030	C229R	1617	C248R	1617	C268F	2030	C281OR	2009	C291C(TRANS)	2030	C306OR	2030
C229A(TRANS)	2030	C229S	1617	C248X	1617	C268G	2030	C281R	2009	C291D	2030	C306P	2030
C229B(TRANS)	2030	C229Y	1617	C248Y	1617	C268GN	2030	C281X	2009	C291E(TRANS)	2030	C306A	2030
C234C(TRANS)	2030	C240(2S)	2041	C249(2S)	2030	C268H	2030	C281Y	2009	C291E(TRANS)	2030	C306Y	2030
C234D(TRANS)	2030	C240A	2041	C249A	2030	C268J	2030	C282(2S)	1617	C291F(TRANS)	2030	C307(2S)	2030
C234E(TRANS)	2030	C240B	2041	C249B	2030	C268K	2030	C282A	1617	C291G(TRANS)	2030	C307-OR	2030
C234F(TRANS)	2030	C240C	2041	C249C	2030	C268L	2030	C282A(TRANS)	1617	C291GN	2030	C307A	2030
C234G	2030	C240D	2041	C249D	2030	C268M	2030	C282B	1617	C291H(TRANS)	2030	C307B	2030
C234GN	2030	C240E	2041	C249E	2030	C268OR	2030	C282B(TRANS)	1617	C291I(TRANS)	2030	C307C	2030
C234H	2030	C240F	2041	C249F	2030	C268R	2030	C282C	1617	C291H	2030	C307D	2030
C234J	2030	C240G	2041	C249G	2030	C268X	2030	C282C(TRANS)	1617	C291H(TRANS)	2030	C307E	2030
C234K	2030	C240GN	2041	C249GN	2030	C268Y	2030	C282D(TRANS)	1617	C291OR	2030	C307F	2030
C234L	2030	C240H	2041	C249H	2030	C269(2S)	2016	C282E(TRANS)	1617	C291R	2030	C307G	2030
C234M(TRANS)	2030	C240J	2041	C249J	2030	C269A	2016	C282F	1617	C291X	2030	C307GN	2030
C234OR	2030	C240K	2041	C249K	2030	C269B	2016	C282G	1617	C291Y	2030	C307H	2030
C234R	2030	C240L	2041	C249L	2030	C269C	2016	C282GN	1617	C295	2009	C307J	2030
C234X	2030	C240M	2041	C249M	2030	C269D	2016	C282H(2S)	1617	C296(2S)	2020	C307K	2030
C234Y	2030	C240OR	2041	C249OR	2030	C269E	2016	C282J	1617	C297	2017	C307L	2030
C236(2S)	2030	C240R	2041	C249R	2030	C269F	2016	C282K	1617	C296(2S)	1617	C307M	2030
C236A	2030	C240S	2041	C249S	2030	C269G	2016	C282L	1617	C296A	1617	C307OR	2030
C236B	2030	C240T	2041	C249T	2030	C269GN	2016	C282M(TRANS)	1617	C296B	1617	C307R	2030
C236C	2030	C241(2S)	2041	C249T(2S)	2030	C269H	2016	C282OR	1617	C296C	1617	C307X	2030
C236D	2030	C241A	2041	C250A	1617	C269J	2016	C282R	1617	C296D	1617	C307Y	2030
C236E	2030	C241B	2041	C250B	1617	C269K	2016	C282X	1617	C300E	1617	C308	2030
C236F	2030	C241C	2041	C250C	1617	C269L	2016	C282Y	1617	C300F	1617	C308A	2030
C236G	2030	C241D	2041	C250D	1617	C269M	2016	C283A	1617	C300G	1617	C308B	2030
C236GN	2030	C241E	2041	C250E	1617	C269OR	2016	C283B	1617	C300GN	1617	C308C	2030
C236H	2030	C241F	2041	C250F	1617	C269R	2016	C283C	1617	C300H	1617	C308D	2030
C236J	2030	C241G	2041	C250G	1617	C269X	2016	C284(2S)	1617	C300J	1617	C308E	2030
C236K	2030	C241GN	2041	C250GN	1617	C269Y	2016	C284A	1617	C300K	1617	C308F	2030
C236L	2030	C241H	2041	C250H	1617	C271(2S)	2016	C284B	1617	C300L	1617	C308G	2030
C236M	2030	C241K	2041	C250J	1617	C271A	2016	C284C	1617	C300M	1617	C308GN	2030
C236OR	2030	C241L	2041	C250K	1617	C271B	2016	C284D	1617	C300OR	1617	C308H	2030
C236R	2030	C241M	2041	C250L	1617	C271C	2016	C284E	1617	C300R	1617	C308J	2030
C236X	2030	C241OR	2041	C250M	1617	C271D	2016	C284F	1617	C300X	1617	C308K	2030
C236Y	2030	C241R	2041	C250OR	1617	C271E	2016	C284G	1617	C300Y	1617	C308L	2030
C237(2S)	1617	C241X	2041	C250R	1617	C271F	2016	C284GN	1617	C301	1617	C308M	2030
C237A	1617	C241Y	2041	C250X	1617	C271G	2016	C284H(2S)	1617	C301A(2S)	1617	C308OR	2030
C237B	1617	C242(2S)	2041	C250Y	1617	C271GN	2016	C284J	1617	C301A(2S)	1617	C308R	2030
C237C	1617	C242A	2041	C251(2S)	2030	C271H	2016	C284K	1617	C301B	1617	C308S	2030
C237D	1617	C242B	2041	C251	2030	C271J	2016	C284L	1617	C301C	1617	C308T	2030
C237E	1617	C242C	2041	C251A	2030	C271K	2016	C284M	1617	C301D	1617	C301E(2S)	2030
C237F	1617	C242D	2041	C251B(2S)	2016	C271L	2016	C284OR	1617	C301E	1617	C309A	2030
C237G	1617	C242E	2041	C251A	2016	C271M	2016	C284R	1617	C301F	1617	C309B	2030
C237GN	1617	C242F	2041	C251B	2016	C271OR	2016	C284X	1617	C301G	1617	C309C	2030

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C309D	2030	C317(2S)	1617	C324HA(2S)	1617	C352C	2009	C361X	2009	C368B	2016	C371K	2009
C309E	2030	C317A	1617	C324J	1617	C352D	2009	C361Y	2009	C368C	2016	C371L	2009
C309F	2030	C317B	1617	C324K	1617	C352E	2009	C362(2S)	2009	C368D	2016	C371M	2009
C309G	2030	C317C(2S)	1617	C324L	1617	C352F	2009	C362A	2009	C368E	2016	C371O	2009
C309GN	2030	C317D	1617	C324M	1617	C352G	2009	C362B	2009	C368F	2016	C371OR	2009
C309H	2030	C317E	1617	C324OR	1617	C352GN	2009	C362C	2009	C368G	2016	C371R(2S)	2009
C309J	2030	C317F	1617	C324R	1617	C352H	2009	C362D	2009	C368GN	2016	C371R-1	2009
C309K	2030	C317G	1617	C324X	1617	C352J	2009	C362E	2009	C368H	2016	C371RED-G	2009
C309L	2030	C317GN	1617	C324Y	1617	C352K	2009	C362F	2009	C368J	2016	C371T	2009
C309M	2030	C317H	1617	C327(EUROPE)	2023	C352L	2009	C362G	2009	C368K	2016	C371X	2009
C309OR	2030	C317J	1617	C328(EUROPE)	2023	C352M	2009	C362GN	2009	C368L	2016	C371Y	2009
C309R	2030	C317K	1617	C332	2009	C352OR	2009	C362H	2009	C368M	2016	C372	2009
C309X	2030	C317L	1617	C333	1617	C352R	2009	C362J	2009	C368OR	2016	C372(H)	2009
C309Y	2030	C317M	1617	C334	1617	C352X	2009	C362K	2009	C368R	2016	C372-0(2S)	2009
C310(2S)	2030	C317OR	1617	C335(2S)	2009	C352Y	2009	C362L	2009	C368V(2S)	2016	C372-1(2S)	2009
C310A	2030	C317R	1617	C336	1617	C353(2S)	2030	C362M	2009	C368X	2016	C372-2(2S)	2009
C310B	2030	C317X	1617	C337	1617	C353A(2S)	2030	C362OR	2009	C368Y	2016	C372-0(2S)	2009
C310C	2030	C317Y	1617	C338	1617	C353AC	2030	C362R	2009	C369(2S)	2016	C372-OR	2009
C310D	2030	C318	1617	C338(EUROPE)	2009	C353B	2030	C362X	2009	C369-BL	2016	C372-ORG	2009
C310E	2030	C318A(2S)	1617	C339	2009	C353C	2030	C362Y	2009	C369-GR	2016	C372-Y(2S)	2009
C310F	2030	C318AB	1617	C342	2009	C353D	2030	C363(2S)	1617	C369-V	2016	C372A	2009
C310G	2030	C318B	1617	C343	1617	C353E	2030	C363-OR	1617	C369A	2016	C372AR	2009
C310GN	2030	C318C	1617	C344	2016	C353F	2030	C363A	1617	C369B	2016	C372B	2009
C310H	2030	C318D	1617	C344Y	2016	C353G	2030	C363B	1617	C369BL(2S)	2016	C372C	2009
C310J	2030	C318E	1617	C346	1617	C353GN	2030	C363C	1617	C369C	2016	C372D	2009
C310K	2030	C318F	1617	C347	1617	C353H	2030	C363D	1617	C369D	2016	C372E	2009
C310L	2030	C318G	1617	C348(2S)	1617	C353J	2030	C363E	1617	C369E	2016	C372F	2009
C310M	2030	C318GN	1617	C348A	1617	C353K	2030	C363F	1617	C369F	2016	C372G	2009
C310OR	2030	C318H	1617	C348B	1617	C353L	2030	C363G	1617	C369G(2S)	2016	C372GN	2009
C310R	2030	C318J	1617	C348C	1617	C353M	2030	C363GN	1617	C369G-BL(2S)	2016	C372G-O	2009
C310X	2030	C318K	1617	C348D	1617	C353OR	2030	C363H	1617	C369GBL(2S)	2016	C372G-Y	2009
C310Y	2030	C318L	1617	C348E	1617	C353R	2030	C363J	1617	C369G-GR(2S)	2016	C372J	2009
C313	2016	C318M	1617	C348F	1617	C353X	2030	C363K	1617	C369GGR(2S)	2016	C372K	2009
C313-OR	2016	C318OR	1617	C348G	1617	C353Y	2030	C363L	1617	C369GN	2016	C372L	2009
C313A	2016	C318R	1617	C348GN	1617	C356(2S)	2009	C363M	1617	C369GR(2S)	2016	C372M	2009
C313B	2016	C318X	1617	C348H	1617	C356A	2009	C363OR	1617	C369G-V(2S)	2016	C372O	2009
C313C(2S)	2016	C318Y	1617	C348J	1617	C356B	2009	C363R	1617	C369H	2016	C372OR	2009
C313D	2016	C321	1617	C348K	1617	C356C	2009	C363X	1617	C369J	2016	C372R	2009
C313E	2016	C321A	1617	C348L	1617	C356D	2009	C363Y	1617	C369K	2016	C372X	2009
C313F	2016	C321B	1617	C348M	1617	C356E	2009	C366(2S)	2009	C369L	2016	C372Y(2S)	2009
C313G	2016	C321C	1617	C348OR	1617	C356F	2009	C366-0	2009	C369M	2016	C372Y1	2009
C313GN	2016	C321D	1617	C348X	1617	C356G	2009	C366A	2009	C369OR	2016	C372YEL	2009
C313H(2S)	2016	C321E	1617	C348Y	1617	C356GN	2009	C366B	2009	C369R	2016	C372YEL-G	2009
C313J	2016	C321F	1617	C349	2016	C356H	2009	C366C	2009	C369V(2S)	2016	C372Z	2009
C313K	2016	C321G	1617	C349R	2016	C356J	2009	C366D	2009	C369X	2016	C373(2S)	2009
C313L	2016	C321GN	1617	C350	1617	C356K	2009	C366E	2009	C369Y	2016	C373-0	2009
C313M	2016	C321H(2S)	1617	C350A(TRANS)	1617	C356L	2009	C366F	2009	C370(2S)	2009	C373-14	2009
C313OR	2016	C321HA(2S)	1617	C350B(TRANS)	1617	C356M	2009	C366G	2009	C370-0	2009	C373-G	2009
C313R	2016	C321HB(2S)	1617	C350C(TRANS)	1617	C356OR	2009	C366GN	2009	C370-G	2009	C373-O	2009
C313X	2016	C321HC(2S)	1617	C350D(TRANS)	1617	C356R	2009	C366G-O	2009	C370-O	2009	C373-OR	2009
C313Y	2016	C321J	1617	C350E(TRANS)	1617	C356X	2009	C366G-R	2009	C370-T	2009	C373A	2009
C315(2S)	1617	C321K	1617	C350F	1617	C356Y	2009	C366G-Y	2009	C370A	2009	C373AL	2009
C315A	1617	C321L	1617	C350G	1617	C360(2S)	1617	C366H	2009	C370B	2009	C373B	2009
C315B	1617	C321M	1617	C350GN	1617	C360-OR	1617	C366J	2009	C370C	2009	C373C	2009
C315C	1617	C321OR	1617	C350H(2S)	1617	C360A	1617	C366K	2009	C370D	2009	C373D	2009
C315D	1617	C321R	1617	C350J	1617	C360B	1617	C366L	2009	C370E	2009	C373E	2009
C315E	1617	C321X	1617	C350K	1617	C360C	1617	C366M	2009	C370F(2S)	2009	C373F	2009
C315F	1617	C321Y	1617	C350L	1617	C360D(2S)	1617	C366OR	2009	C370G(2S)	2009	C373G	2009
C315G	1617	C322	2009	C350M(TRANS)	1617	C360E	1617	C366X	2009	C370GN	2009	C373GN	2009
C315GN	1617	C323(2S)	1617	C350OR	1617	C360F	1617	C367	2009	C370H(2S)	2009	C373GR(2S)	2009
C315H	1617	C323A	1617	C350R	1617	C360G	1617	C367-O	2009	C370I	2009	C373H	2009
C315J	1617	C323B	1617	C350X	1617	C360GN	1617	C367-R	2009	C370J(2S)	2009	C373J	2009
C315K	1617	C323C	1617	C350Y	1617	C360H	1617	C367-Y	2009	C370K(2S)	2009	C373K	2009
C315L	1617	C323D	1617	C351(2S)	2016	C360J	1617	C367A	2009	C370L	2009	C373L	2009
C315M	1617	C323E	1617	C351A	2016	C360K	1617	C367B	2009	C370M	2009	C373M	2009
C315OR	1617	C323F	1617	C351B	2016	C360L	1617	C367C	2009	C370OR	2009	C373OR	2009
C315R	1617	C323G	1617	C351C	2016	C360M	1617	C367D	2009	C370R	2009	C373R	2009
C315X	1617	C323GN	1617	C351D	2016	C360OR	1617	C367E	2009	C370X	2009	C373W(2S)	2009
C315Y	1617	C323H	1617	C351E	2016	C360R	1617	C367F	2009	C370Y	2009	C373X	2009
C316(2S)	1617	C323J	1617	C351F	2016	C360X	1617	C367G	2009	C371(2S)	2009	C373Y	2009
C316A	1617	C323K	1617	C351FA1	2016	C360Y	1617	C367GN	2009	C371-0(2S)	2009	C374(2S)	2016
C316B	1617	C323L	1617	C351G	2016	C361(2S)	2009	C367G-O	2009	C371-O(2S)	2009	C374-BL(2S)	2016
C316C	1617	C323M	1617	C351GN	2016	C361A	2009	C367G-R	2009	C371-OR	2009	C374-OR	2016
C316D	1617	C323OR	1617	C351H	2016	C361B	2009	C367G-Y	2009	C371-R(2S)	2009	C374-V(2S)	2016
C316E	1617	C323R	1617	C351J	2016	C361C	2009	C367H	2009	C371-T	2009	C374A	2016
C316F	1617	C323X	1617	C351K	2016	C361D	2009	C367J	2009	C371A	2009	C374B	2016
C316G	1617	C323Y	1617	C351L	2016	C361E	2009	C367K	2009	C371B(2S)	2009	C374BL	2016
C316GN	1617	C324(2S)	1617	C351M	2016	C361F	2009	C367L	2009	C371C	2009	C374BLK	2016
C316H	1617	C324A(2S)	1617	C351OR	2016	C361G	2009	C367M	2009	C371D	2009	C374C	2016
C316J	1617	C324B	1617	C351R	2016	C361GN	2009	C367OR	2009	C371E	2009	C374D	2016
C316K	1617	C324C	1617	C351X	2016	C361H	2009	C367R	2009	C371F	2009	C374E	2016
C316L	1617	C324D	1617	C351Y	2016	C361J	2009	C367X	2009	C371G(2S)	2009	C374F	2016
C316M	1617	C324E	1617	C352	2009	C361K	2009	C367Y	2009	C371GN	2009	C374G	2016
C316OR	1617	C324F	1617	C352-OR	2009	C361L	2009	C368(2S)	2016	C371G-O	2009	C374GN	2016
C316R	1617	C324G	1617	C352A	2009	C361M	2009	C368-BL	2016	C371G-R	2009	C374H	2016
C316X	1617	C324GN	1617	C352AC	2009	C361OR	2009	C368-GR	2016	C371H	2009	C374J	2016
C316Y	1617	C324H(2S)	1617	C352B	2009	C361R	2009	C368A	2016	C371J	2009	C374K	2016

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C374L	2014	C378P	2009	C381-OR	2016	C384C(TRANS)	2018	C388E(TRANS)	2009	C394-OR	2009	C400	1617
C374M	2016	C378Q	2009	C381-ORG	2016	C384D(TRANS)	2018	C388F	2009	C394R(2S)	2009	C400(2S)	1617
C374OR	2016	C378QN	2009	C381-R(2S)	2016	C384E(TRANS)	2018	C388FA	2009	C394RED	2009	C400-O(2S)	1617
C374M	2016	C378H	2009	C381-RSD	2016	C384F	2016	C388G	2009	C394W(2S)	2009	C400-G(2S)	1617
C374V	2016	C378J	2009	C381A	2016	C384G	2016	C388GN	2009	C394Y	2009	C400-O	1617
C374X	2016	C378K	2009	C381B	2016	C384GN	2016	C388H	2009	C394Y(2S)	2009	C400-R(2S)	1617
C374Y	2016	C378L	2009	C381BN(2S)	2016	C384H	2016	C388J	2009	C394YEL	2009	C400-Y(2S)	1617
C375(2S)	2016	C378M(TRANS)	2009	C381BN-1	2016	C384J	2016	C388K	2009	C395(2S)	1617	C400A	1617
C375-0(2S)	2016	C378O	2009	C381C	2016	C384K	2016	C388L	2009	C395A(TRANS)	1617	C400B	1617
C375-O(2S)	2016	C378OR	2009	C381D	2016	C384L	2016	C388M(TRANS)	2009	C395A-O	1617	C400C	1617
C375-Y(2S)	2016	C378R	2009	C381E	2016	C384M(TRANS)	2018	C388OR	2009	C395A-ORG	1617	C400D	1617
C375A	2016	C378S	2009	C381F	2016	C384R	2016	C388R	2009	C395A-R	1617	C400E	1617
C375B	2016	C378T	2009	C381G	2016	C384S	2016	C388TM	2009	C395A-RED	1617	C400F	1617
C375C	2016	C378T(2S)	2009	C381GN	2016	C384T	2016	C388X	2009	C395A-Y	1617	C400G	1617
C375D	2016	C378A	2009	C381H	2016	C384Y(2S)	2018	C388Y	2009	C395A-YEL	1617	C400GN	1617
C375E	2016	C378B	2009	C381J	2016	C385	2016	C389(2S)	2016	C395B(TRANS)	1617	C400H	1617
C375F	2016	C378C	2009	C381K	2016	C385A(TRANS)	2018	C389-O	2016	C395C(TRANS)	1617	C400J	1617
C375G	2016	C378D	2009	C381L	2016	C385B(TRANS)	2018	C389-OR	2016	C395D(TRANS)	1617	C400K	1617
C375GN	2016	C378E	2009	C381M	2016	C385C(TRANS)	2018	C389A	2016	C395E(TRANS)	1617	C400L	1617
C375H	2016	C378F	2009	C381O	2016	C385D(TRANS)	2018	C389AFP	2016	C395F	1617	C400M	1617
C375J	2016	C378G	2009	C381OR	2016	C385E(TRANS)	2018	C389B	2016	C395G	1617	C400N	1617
C375K	2016	C378GN	2009	C381R(2S)	2016	C385F	2016	C389BLE-O	2016	C395GN	1617	C400P	1617
C375L	2016	C378H	2009	C381RED	2016	C385G	2016	C389C	2016	C395H	1617	C400Q	1617
C375M	2016	C378J	2009	C381RL	2016	C385GN	2016	C389D	2016	C395J	1617	C400R	1617
C375OR	2016	C378K	2009	C381X	2016	C385H	2016	C389E	2016	C395K	1617	C401	2009
C375R	2016	C378L	2009	C381Y	2016	C385J	2016	C389F	2016	C395L	1617	C401(2S)	2009
C375X	2016	C378M	2009	C382(2S)	2009	C385K	2016	C389G	2016	C395M(TRANS)	1617	C401A	2009
C376(2S)	2009	C378OR	2009	C382-G	2009	C385L	2016	C389GN	2016	C395OR	1617	C401B	2009
C376A	2009	C378R	2009	C382-GR(2S)	2009	C385M(TRANS)	2018	C389H	2016	C395R(2S)	1617	C401C	2009
C376B	2009	C378S	2009	C382-GY	2009	C385OR	2016	C389J	2016	C395X	1617	C401D	2009
C376C	2009	C378T	2009	C382-OR	2009	C385S	2016	C389K	2016	C395Y	1617	C401E	2009
C376D	2009	C380	2009	C382-R	2009	C385V	2009	C389L	2016	C397	2016	C401F	2009
C376E(TRANS)	2009	C380-R(2S)	2009	C382-V	2009	C385Y	2016	C389LP	2016	C397A	2016	C401G	2009
C376F	2009	C380-BRN	2009	C382A	2009	C386	2016	C389M	2016	C397B	2016	C401GN	2009
C376G	2009	C380-C(2S)	2009	C382B	2009	C386-O	2016	C389O	2016	C397C	2016	C401H	2009
C376GN	2009	C380-OR	2009	C382BK(2S)	2009	C386A	2016	C389OR	2016	C397D	2016	C401J	2009
C376H	2009	C380-ORG	2009	C382BK1	2009	C386AO	2016	C389P	2016	C397E(TRANS)	2016	C401K	2009
C376J	2009	C380-R	2009	C382BK2	2009	C386B	2016	C389R(2S)	2016	C397F	2016	C401L	2009
C376K	2009	C380-RED	2009	C382BL(2S)	2009	C386C	2016	C389X	2016	C397G	2016	C401M	2009
C376L	2009	C380-Y	2009	C382BN(2S)	2009	C386D	2016	C389Y	2016	C397GN	2016	C401OR	2009
C376M(TRANS)	2009	C380-YEL	2009	C382BR(2S)	2009	C386E	2016	C39	2009	C397H	2016	C401R	2009
C376OR	2009	C380A(TRANS)	2009	C382C	2009	C386F	2016	C391A	2009	C397J	2016	C401X	2009
C376R	2009	C380A-2	2009	C382D	2009	C386G	2016	C391B	2009	C397K	2016	C401Y	2009
C376X	2009	C380A-R	2009	C382E	2009	C386GN	2016	C391C	2009	C397L	2016	C401Z	2009
C376Y	2009	C380A-O	2009	C382F	2009	C386H	2016	C391D	2009	C397M(TRANS)	2016	C402(2S)	2009
C377(2S)	2009	C380AO(2S)	2009	C382G(2S)	2009	C386J	2016	C391E	2009	C397OR	2016	C402A(2S)	2009
C377-0	2009	C380AR	2009	C382GN	2009	C386K	2016	C391F	2009	C397R	2016	C402B	2009
C377-BN	2009	C380A-R(2S)	2009	C382GR	2009	C386L	2016	C391G	2009	C397X	2016	C402C	2009
C377-BRN	2009	C380ATV(2S)	2009	C382GY	2009	C386M	2016	C391GN	2009	C397Y	2016	C402D	2009
C377-O	2009	C380A-Y	2009	C382H	2009	C386OR	2016	C391H	2009	C398	2009	C402E	2009
C377-OR	2009	C380AY(2S)	2009	C382J	2009	C386R	2016	C391J	2009	C398A	2009	C402F	2009
C377-ORG	2009	C380B(TRANS)	2009	C382K	2009	C386X	2016	C391K	2009	C398B	2009	C402G	2009
C377-R	2009	C380B-Y	2009	C382L	2009	C386Y	2016	C391L	2009	C398C	2009	C402GN	2009
C377-RED	2009	C380BY	2009	C382M	2009	C387(2S)	2016	C391M	2009	C398D	2009	C402H	2009
C377A	2009	C380C(TRANS)	2009	C382OR	2009	C387-G	2016	C391OR	2009	C398E(TRANS)	2009	C402J	2009
C377B	2009	C380C-Y	2009	C382R(2S)	2009	C387-OR	2016	C391R	2009	C398F	2009	C402K	2009
C377BN	2009	C380CY	2009	C382V(2S)	2009	C387A(2S)	2016	C391X	2009	C398FA1	2009	C402L	2009
C377BRN	2009	C380D(TRANS)	2009	C382W	2009	C387AG	2016	C391Y	2009	C398G	2009	C402M	2009
C377C	2009	C380D-Y	2009	C382X	2009	C387B	2016	C393	2009	C398GN	2009	C402OR	2009
C377D	2009	C380DY	2009	C382Y	2009	C387C	2016	C394(2S)	2009	C398H	2009	C402R	2009
C377E(TRANS)	2009	C380E(TRANS)	2009	C383(2S)	2009	C387D	2016	C394-0(2S)	2009	C398I	2009	C402S	2009
C377F	2009	C380E-Y	2009	C383-OR	2009	C387E(TRANS)	2016	C394-GR	2009	C398K	2009	C402T	2009
C377G	2009	C380EY	2009	C383A	2009	C387F	2016	C394-GRH	2009	C398L	2009	C402(2S)	2009
C377GN	2009	C380F	2009	C383B	2009	C387FA1	2016	C394-O(2S)	2009	C398M(TRANS)	2009	C403-OR	2009
C377H	2009	C380F-Y	2009	C383C	2009	C387G(2S)	2016	C394-OR	2009	C398OR	2009	C403A(2S)	2009
C377J	2009	C380FY	2009	C383D	2009	C387GN	2016	C394-ORG	2009	C398R	2009	C403AL	2009
C377K	2009	C380G	2009	C383E	2009	C387H	2016	C394-R	2009	C398S	2009	C403B	2009
C377L	2009	C380GN	2009	C383F	2009	C387J	2016	C394-RED	2009	C398Y	2009	C403C(2S)	2009
C377M(TRANS)	2009	C380H	2009	C383G(2S)	2009	C387K	2016	C394-Y	2009	C399(2S)	2009	C403CG	2009
C377O	2009	C380J	2009	C383GN	2009	C387L	2016	C394-YEL	2009	C399A	2009	C403D	2009
C377OP	2009	C380K	2009	C383H	2009	C387M(TRANS)	2018	C394A(TRANS)	2009	C399B	2009	C403E	2009
C377R	2009	C380L	2009	C383J	2009	C387OR	2016	C394AP	2009	C399C	2009	C403F	2009
C377RED	2009	C380M(TRANS)	2009	C383K	2009	C387R	2016	C394B(TRANS)	2009	C399D	2009	C403G	2009
C377X	2009	C380O	2009	C383L	2009	C387S	2016	C394C(TRANS)	2009	C399E	2009	C403GN	2009
C377Y	2009	C380OH	2009	C383M	2009	C387T	2016	C394D(TRANS)	2009	C399F	2009	C403H	2009
C378(2S)	2009	C380R(2S)	2009	C383OR	2009	C388(2S)	2009	C394E(TRANS)	2009	C399FA1	2009	C403J	2009
C378-0	2009	C380RED	2009	C383R	2009	C388-O	2009	C394F	2009	C399G	2009	C403K	2009
C378-ORG	2009	C380T(TRANS)	2009	C383T(2S)	2009	C388-OR	2009	C394G	2009	C399GN	2009	C403L	2009
C378-R	2009	C380V	2009	C383TM	2009	C388A(2S)	2009	C394GN	2009	C399H	2009	C403M	2009
C378-RED	2009	C380X	2009	C383W(2S)	2009	C388A(JAPAN)	2009	C394GR(2S)	2009	C399J	2009	C403OR	2009
C378-Y	2009	C380Y(2S)	2009	C383X	2009	C388A(KOREA)	2009	C394GRN	2009	C399K	2009	C403R	2009
C378-YEL	2009	C380YEL	2009	C383Y(2S)	2009	C388A-TM	2009	C394H	2009	C399L	2009	C403S	2009
C378A	2009	C381(2S)	2016	C384(2S)	2016	C388ATM	2009	C394J	2009	C399M	2009	C403Y	2009
C378B	2009	C381-A(2S)	2016	C384-O	2016	C388ATMFA	2009	C394K	2009	C399OR	2009	C404(2S)	2009
C378C	2009	C381-BN	2016	C384-S	2016	C388B	2009	C394L	2009	C399R	2009	C404A	2009
C378D	2009	C381-BN	2016	C384A(TRANS)	2018	C388C	2009	C394M(TRANS)	2009	C399X	2009	C404B	2009
C378E(TRANS)	2009	C381-O(2S)	2016	C384B(TRANS)	2018	C388D	2009	C394O	2009	C399Y	2009	C404C	2009

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C404D	2009	C425OR	1617	C458A(2S)	2009	C461	2009	C478F	1617	C498-Y(2S)	2030	C503H	2030
C404E	2009	C425R	1617	C458AD(2S)	2009	C461-8F	2009	C478G	1617	C498-YEL	2030	C503J	2030
C404F	2009	C425X	1617	C458AK	2009	C461-A	2009	C478GN	1617	C498A	2030	C503K	2030
C404G	2009	C425Y	1617	C458B	2009	C461-B	2009	C478H	1617	C498B	2030	C503L	2030
C404GN	2009	C426	2030	C458BC(2S)	2009	C461A	2009	C478J	1617	C498C	2030	C503M	2030
C404H	2009	C426(2S)	2009	C458BD	2009	C461AL	2009	C478K	1617	C498D	2030	C503OR	2030
C404J	2009	C427	2009	C458BL(2S)	2009	C461B	2009	C478L	1617	C498E	2030	C503R	2030
C404K	2009	C428(2S)	2009	C458BM	2009	C461BF	2009	C478M(TRANS)	1617	C498F	2030	C503X	2030
C404L	2009	C433	2009	C458C	2009	C461BK	2009	C478OR	1617	C498G	2030	C504(2S)	2030
C404M	2009	C434	2020	C458C(JAPAN)	2009	C461BL	2009	C478R	1617	C498GN	2030	C504-GR	2030
C404OR	2009	C443(2S)	2030	C458CL	2009	C461C	2009	C478X	1617	C498H	2030	C504-O(2S)	2030
C404R	2009	C443A	2030	C458CLG(2S)	2009	C461E(2S)	2009	C478Y	1617	C498J	2030	C504-Y(2S)	2030
C404X	2009	C443B	2030	C458CM(2S)	2009	C461EP	2009	C479(2S)	2030	C498K	2030	C504A	2030
C404Y	2009	C443C	2030	C458D(2S)	2009	C461F	2009	C479A	2009	C498L	2030	C504B	2030
C405(2S)	1617	C443D	2030	C458E(TRANS)	2009	C461L(2S)	2009	C479B	2030	C498M	2030	C504C	2030
C405A	1617	C443E	2030	C458F	2009	C462	2009	C479C	2030	C498OR	2030	C504D	2030
C405B	1617	C443F	2030	C458G(2S)	2009	C463(2S)	2016	C479D	2030	C498R	2030	C504E	2030
C405C	1617	C443G	2030	C458GN	2009	C463A	2016	C479E	2030	C498RED	2030	C504F	2030
C405D	1617	C443GN	2030	C458H	2009	C463B	2016	C479F	2030	C498X	2030	C504G	2030
C405E	1617	C443H	2030	C458J	2009	C463C	2016	C479G	2030	C498Y	2030	C504GN	2030
C405F	1617	C443J	2030	C458K(2S)	2009	C463D	2016	C479GN	2030	C498YEL	2030	C504GR(2S)	2030
C405G	1617	C443K	2030	C458KB(2S)	2009	C463E	2016	C479H	2030	C499(2S)	2009	C504H	2030
C405GN	1617	C443L	2030	C458L(2S)	2009	C463F	2016	C479J	2030	C499-OR	2009	C504J	2030
C405H	1617	C443M	2030	C458L6	2009	C463G	2016	C479K	2030	C499-R	2009	C504K	2030
C405J	1617	C443OR	2030	C458LB(2S)	2009	C463GN	2016	C479L	2030	C499-RED	2009	C504L	2030
C405K	1617	C443R	2030	C458LC	2009	C463H(2S)	2016	C479M	2030	C499-RY(2S)	2009	C504M	2030
C405L	1617	C443X	2030	C458LD	2009	C463J	2016	C479OR	2030	C499-Y	2009	C504OR	2030
C405M	1617	C443Y	2030	C458LG	2009	C463K	2016	C479R	2030	C499-YEL	2009	C504R	2030
C405OR	1617	C444	1617	C458LGA(2S)	2009	C463L	2016	C479X	2030	C499A	2009	C504X	2030
C405R	1617	C450	1617	C458LGB	2009	C463M	2016	C479Y	2030	C499B	2009	C509	2009
C405X	1617	C454	2009	C458LGBM(2S)	2009	C463OR	2016	C492(2S)	2041	C499C	2009	C509(0)	2009
C405Y	1617	C454-3	2009	C458LGC	2009	C463R	2016	C494(2S)	2041	C499D	2009	C509-0	2009
C406(2S)	1617	C454-5	2009	C458LGC-6	2009	C463X	2016	C494-BL(2S)	2041	C499E	2009	C509-O	2009
C406A	1617	C454-C	2009	C458LGD	2009	C463Y	2016	C494-R(2S)	2041	C499F	2009	C509-Y	2009
C406B	1617	C454-OR	2009	C458LGO(2S)	2009	C467	2016	C494-Y(2S)	2041	C499FA1	2009	C509G(2S)	2009
C406C	1617	C454A(2S)	2009	C458LGR	2009	C468(2S)	1617	C494A	2041	C499G	2009	C509G-O	2009
C406D	1617	C454B	2009	C458LGS(2S)	2009	C468A(2S)	1617	C494B	2041	C499GN	2009	C509G-Y	2009
C406E	1617	C454B-6	2009	C458M(TRANS)	2009	C468B	1617	C494BL(2S)	2041	C499H	2009	C509O	2009
C406F	1617	C454BL	2009	C458OR	2009	C468H	1617	C494C	2041	C499J	2009	C509Y(2S)	2009
C406G	1617	C454C	2009	C458P	2009	C468LGR	1617	C494D	2041	C499K	2009	C511A	1067
C406GN	1617	C454C(JAPAN)	2009	C458R	2009	C472	2058	C494E	2041	C499L	2009	C511B	1067
C406H	1617	C454D(2S)	2009	C458RGS(2S)	2009	C472A	2058	C494F	2041	C499M	2009	C511C	1020
C406J	1617	C454E	2009	C458X	2009	C472B	2058	C494G	2041	C499OR	2009	C511F	1067
C406K	1617	C454F	2009	C458Y	2009	C472C	2058	C494GN	2041	C499R(2S)	2009	C511G	1067
C406L	1617	C454G	2009	C459(2S)	2009	C472D	2058	C494H	2041	C499RED	2009	C511H	1020
C406M	1617	C454GN	2009	C459A	2009	C472E	2058	C494J	2041	C499RY	2009	C511U	1067
C406OR	1617	C454H	2009	C459B(2S)	2009	C472F	2058	C494K	2041	C499X	2009	C516(2S)	2030
C406R	1617	C454J	2009	C459C	2009	C472G	2058	C494L	2041	C499Y(2S)	2009	C516A	2030
C406X	1617	C454K	2009	C459D(2S)	2009	C472GN	2058	C494M	2041	C499YEL	2009	C516B	2030
C406Y	1617	C454L(2S)	2009	C459E	2009	C472H	2058	C494OR	2041	C501	2030	C516C	2030
C420	2030	C454LA(2S)	2009	C459F	2009	C472J	2058	C494R	2041	C501-O	2030	C516D	2030
C423(2S)	1617	C454M	2009	C459G	2009	C472K	2058	C494X	2041	C501-ORG	2030	C516E	2030
C423-O	1617	C454OR	2009	C459GN	2009	C472L	2058	C494Y	2041	C501-R	2030	C516F	2030
C423A	1617	C454R	2009	C459H	2009	C472M	2058	C497(2S)	2030	C501-RED	2030	C516G	2030
C423B(2S)	1617	C454X	2009	C459J	2009	C472OR	2058	C497-0	2030	C501-Y	2030	C516GN	2030
C423C(2S)	1617	C454Y	2009	C459K	2009	C472R	2058	C497-O(2S)	2030	C501-YEL	2030	C516H	2030
C423D(2S)	1617	C455(2S)	2009	C459L	2009	C472X	2058	C497-OR	2030	C501A(TRANS)	2030	C516J	2030
C423E(2S)	1617	C455-OR	2009	C459M	2009	C472Y(2S)	2058	C497-ORG	2030	C501B(TRANS)	2030	C516K	2030
C423F(2S)	1617	C455A	2009	C459OR	2009	C473	1617	C497-R(2S)	2030	C501C(TRANS)	2030	C516L	2030
C423G	1617	C455B	2009	C459R	2009	C473AC	1617	C497-RED	2030	C501D(TRANS)	2030	C516M	2030
C423GN	1617	C455C	2009	C459X	2009	C474	2009	C497-Y(2S)	2030	C501E(TRANS)	2030	C516OR	2030
C423H	1617	C455D	2009	C459Y	2009	C477(2S)	2016	C497-YEL	2030	C501F	2030	C516R	2030
C423J	1617	C455E	2009	C460	2009	C477A	2016	C497A	2030	C501G	2030	C516X	2030
C423K	1617	C455F	2009	C460(JAPAN)	2009	C477B	2016	C497B	2030	C501GN	2030	C516Y	2030
C423L	1617	C455G	2009	C460-5	2009	C477C	2016	C497C	2030	C501H	2030	C527	2016
C423M	1617	C455GN	2009	C460-B	2009	C477D	2016	C497D	2030	C501J	2030	C528	2016
C423OR	1617	C455H	2009	C460-C	2009	C477E(TRANS)	2016	C497E	2030	C501K	2030	C529	2009
C423R	1617	C455J	2009	C460-OR	2009	C477F	2016	C497F	2030	C501L(2S)	2030	C529A	2009
C423X	1617	C455K	2009	C460A(2S)	2009	C477G	2016	C497G	2030	C501M(TRANS)	2030	C529B	2009
C423Y	1617	C455L	2009	C460B	2009	C477GN	2016	C497GN	2030	C501O	2030	C529C	2009
C424	1617	C455M	2009	C460BL	2009	C477H	2016	C497H	2030	C501OR	2030	C529D	2009
C424(2S)	1617	C455OR	2009	C460C	2009	C477J	2016	C497J	2030	C501R	2030	C529E	2009
C424D(2S)	1617	C455R	2009	C460D(2S)	2009	C477K	2016	C497K	2030	C501X	2030	C529F	2009
C425	2030	C455X	2009	C460E	2009	C477L	2016	C497L	2030	C501Y	2030	C529G	2009
C425(2S)	1617	C455Y	2009	C460F	2009	C477M(TRANS)	2016	C497M	2030	C503(2S)	2030	C529GN	2009
C425A	1617	C457	2009	C460G(2S)	2009	C477OR	2016	C497OR	2030	C503-GR	2030	C529H	2009
C425B(2S)	1617	C458	2009	C460GB(2S)	2009	C477R	2016	C497R	2030	C503-O(2S)	2030	C529J	2009
C425C(2S)	1617	C458(JAPAN)	2009	C460GN	2009	C477X	2016	C497RED	2030	C503-Y(2S)	2030	C529K	2009
C425D(2S)	1617	C458-4	2009	C460H(2S)	2009	C477Y	2016	C497X	2030	C503A	2030	C529L	2009
C425E(2S)	1617	C458-5	2009	C460J	2009	C478(2S)	1617	C497Y	2030	C503B	2030	C529M	2009
C425F(2S)	1617	C458-B	2009	C460K(2S)	2009	C478-4(2S)	1617	C498(2S)	2030	C503C	2030	C529OR	2009
C425G	1617	C458-C	2009	C460L(2S)	2009	C478-O	1617	C498-0	2030	C503D	2030	C529R	2009
C425GN	1617	C458-D	2009	C460M	2009	C478A	1617	C498-O(2S)	2030	C503E	2030	C529X	2009
C425H	1617	C458-GR	2009	C460OR	2009	C478B	1617	C498-OR	2030	C503F	2030	C529Y	2009
C425K	1617	C458-O	2009	C460R	2009	C478C	1617	C498-ORG	2030	C503G	2030	C530	2009
C425L	1617	C458-OR	2009	C460X	2009	C478D(2S)	1617	C498-R(2S)	2030	C503GN	2030	C531	2009
C425M	1617	C458-Y	2009	C460Y	2009	C478E(TRANS)	1617	C498-RED	2030	C503GR(2S)	2030	C532	2009

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C532O	2009	C536NPG	2009	C544E(2S)	2016	C562J	2016	C587A(2S)	1617	C596K	1617	C620DE(2S)	2009
C533	2009	C536OR	2009	C544F	2016	C562K	2016	C587B	1617	C596L	1617	C620E(2S)	2009
C534	2009	C536R	2009	C544G	2016	C562L	2016	C587C	1617	C596M	1617	C620F	2009
C535	2016	C536SP	2009	C544GN	2016	C562M	2016	C587D	1617	C596OR	1617	C620G	2009
C535-OR	2016	C536W(2S)	2009	C544H	2016	C562O	2016	C587E	1617	C596R	1617	C620GN	2009
C535A	2016	C536X	2009	C544J	2016	C562OR	2016	C587F	1617	C596X	1617	C620H	2009
C535ABC	2016	C536XL	2009	C544K	2016	C562R	2016	C587G	1617	C596Y	1617	C620J	2009
C535AL	2016	C536Y	2009	C544L	2016	C562X	2016	C587GN	1617	C598	2017	C620K	2009
C535B	2016	C536YF	2009	C544M	2016	C562Y(2S)	2016	C587H	1617	C599	2020	C620L	2009
C535B(JAPAN)	2016	C537	2009	C544OR	2016	C563	2016	C587J	1617	C600	2020	C620M	2009
C535C	2016	C537-C7	2009	C544R	2016	C563-F	2016	C587K	1617	C602	2016	C620OR	2009
C535D	2016	C537-EV	2009	C544X	2016	C563-G	2016	C587L	1617	C604	2016	C620R	2009
C535E	2016	C537A	2016	C544Y	2016	C563-OR	2016	C587M	1617	C607	2030	C620X	2009
C535F	2016	C537ALC	2009	C545(2S)	2016	C563A(2S)	2016	C587OR	1617	C610	2023	C620Y	2009
C535G(2S)	2016	C537B	2009	C545A(2S)	2016	C563B	2016	C587R	1617	C610(2S)	2030	C621	2009
C535GN	2016	C537BK	2009	C545B(2S)	2016	C563C	2016	C587X	1617	C610A	2030	C621(2S)	2009
C535H	2016	C537C	2009	C545C(2S)	2016	C563D	2016	C587Y	1617	C610B	2030	C621A	2009
C535J	2016	C537C7	2009	C545D(2S)	2016	C563E	2016	C588(2S)	1617	C610C	2030	C621B	2009
C535K	2016	C537D(2S)	2009	C545E(2S)	2016	C563F	2016	C588A	1617	C610D	2030	C621C	2009
C535L	2016	C537D1	2009	C546	2016	C563G	2016	C588B	1617	C610E	2030	C621D	2009
C535M	2016	C537D2(2S)	2009	C546K	2016	C563GN	2016	C588C	1617	C610F	2030	C621E	2009
C535OR	2016	C537E(2S)	2009	C547C(EUROPE)	2009	C563H	2016	C588D	1617	C610G	2030	C621F	2009
C535R	2016	C537EF	2009	C548	2017	C563J	2016	C588E	1617	C610GN	2030	C621G	2009
C535X	2016	C537EH(2S)	2009	C548(EUROPE)	2009	C563K	2016	C588F	1617	C610H	2030	C621GN	2009
C535Y	2016	C537EJ(2S)	2009	C548A(EUROPE)	2016	C563L	2016	C588G	1617	C610J	2030	C621H	2009
C536	2009	C537EV	2009	C548C(EUROPE)	2009	C563M	2016	C588GN	1617	C610K	2030	C621J	2009
C536(JAPAN)	2009	C537F	2009	C549C(EUROPE)	2016	C563OR	2016	C588H	1617	C610L	2030	C621K	2009
C536-D	2009	C537F1(2S)	2009	C550	2017	C563R	2016	C588J	1617	C610M	2030	C621L	2009
C536-E	2009	C537F2(2S)	2009	C550A	2017	C563X	2016	C588K	1617	C610OR	2030	C621M	2009
C536-F	2009	C537FC(2S)	2009	C551	2020	C563Y	2016	C588L	1617	C610R	2030	C621OR	2009
C536-G	2009	C537F-C7	2009	C552	2020	C564(2S)	1617	C588M	1617	C610X	2030	C621R	2009
C536-OR	2009	C537FC7	2009	C553	2020	C564A(2S)	1617	C588OR	1617	C610Y	2030	C621X	2009
C536A(2S)	2009	C537FJ	2009	C554	2020	C564AP	1617	C588R	1617	C611A	1067	C621Y	2009
C536AF	2009	C537FK	2009	C556	2058	C564B	1617	C588X	1617	C611B	1067	C622	1617
C536AG(2S)	2009	C537FV(2S)	2009	C557(EUROPE)	2023	C564C	1617	C588Y	1617	C611F	1067	C622(2S)	1617
C536B(2S)	2009	C537G(2S)	2009	C558(EUROPE)	2023	C564D	1617	C590Y(2S)	2009	C611G	1067	C622A	1617
C536C(2S)	2009	C537G1(2S)	2009	C558B(EUROPE)	2023	C564E	1617	C592	2017	C611U	1067	C622B	1617
C536D(2S)	2009	C537G2	2009	C559B(EUROPE)	2023	C564F	1617	C593(2S)	1617	C612B	2016	C622C	1617
C536DK(2S)	2009	C537GFL	2009	C560(2S)	2030	C564G	1617	C594(2S)	1617	C613	2016	C622D	1617
C536E	2009	C537GI(2S)	2009	C560A	2030	C564GN	1617	C594-O	1617	C613(2S)	2016	C622E	1617
C536E(JAPAN)	2009	C537H(2S)	2009	C560B	2030	C564H	1617	C594-R	1617	C613A	2016	C622F	1617
C536ED(2S)	2009	C537HT(2S)	2009	C560C	2030	C564J	1617	C594-Y	1617	C613B	2016	C622G	1617
C536EH(2S)	2009	C537WF	2009	C560D	2030	C564K	1617	C594A	1617	C613C	2016	C622GN	1617
C536EJ(2S)	2009	C538	1617	C560E	2030	C564L	1617	C594B	1617	C613D	2016	C622H	1617
C536EN(2S)	2009	C538-Q	1617	C560F	2030	C564M	1617	C594C	1617	C613E	2016	C622J	1617
C536EP	2009	C538A(2S)	1617	C560G	2030	C564OR	1617	C594D	1617	C613F	2016	C622K	1617
C536ER(2S)	2009	C538A-P	1617	C560GN	2030	C564P(2S)	1617	C594E	1617	C613G	2016	C622L	1617
C536ET(2S)	2009	C538AQ(2S)	1617	C560H	2030	C564PL	1617	C594F	1617	C613GN	2016	C622M	1617
C536EZ(2S)	2009	C538A-R	1617	C560J	2030	C564Q(2S)	1617	C594G	1617	C613H	2016	C622OR	1617
C536F	2009	C538AR	1617	C560K	2030	C564QC	1617	C594GN	1617	C613J	2016	C622R	1617
C536F(JAPAN)	2009	C538AS	1617	C560L	2030	C564R(2S)	1617	C594H	1617	C613K	2016	C622X	1617
C536F1(2S)	2009	C538K	1617	C560M	2030	C564S(2S)	1617	C594J	1617	C613L(TRANS)	2016	C622Y	1617
C536F2(2S)	2009	C538P(2S)	1617	C560OR	2030	C564T(2S)	1617	C594K	1617	C613M	2016	C623(2S)	1617
C536FC	2009	C538Q(2S)	1617	C560R	2030	C564X	1617	C594L	1617	C613OR	2016	C624(2S)	1617
C536FC(2S)	2009	C538R	1617	C560X	2030	C564Y	1617	C594M	1617	C613R	2016	C626	1617
C536FP(2S)	2009	C538S(2S)	1617	C560Y	2030	C565	1617	C594OR	1617	C613X	2016	C629(2S)	2058
C536FS(2S)	2009	C538T(2S)	1617	C561(2S)	2016	C569	1617	C594R	1617	C613Y	2016	C629-31	2058
C536FS6(2S)	2009	C539(2S)	1617	C561-OR	2016	C570	1617	C594X	1617	C618	2016	C629-41	2058
C536FZ(2S)	2009	C539R(2S)	1617	C561A	2016	C575	2030	C594Y	1617	C618A	2016	C629A	2058
C536G(2S)	2009	C539S(2S)	1617	C561B	2016	C576	1617	C595(2S)	1617	C619(2S)	2009	C629B	2058
C536G(JAPAN)	2009	C539T	1617	C561C	2016	C576E	2009	C595A	1617	C619A	2009	C629C	2058
C536G-1	2009	C541	2017	C561D	2016	C576F	2009	C595B	1617	C619B(2S)	2009	C629D	2058
C536G1	2009	C542	2017	C561E	2016	C576G	2009	C595C	1617	C619C(2S)	2009	C629E	2058
C536G2	2009	C543	2020	C561F	2016	C577	1617	C595D	1617	C619D(2S)	2009	C629F	2058
C536GF(2S)	2009	C543A	2020	C561G	2016	C580(2S)	2009	C595E	1617	C619E	2009	C629G	2058
C536GJ	2009	C543B	2020	C561GN	2016	C580A	2030	C595F	1617	C619F	2009	C629GN	2058
C536GK(2S)	2009	C543C	2020	C561H	2016	C580B	2030	C595G	1617	C619G	2009	C629H	2058
C536GL	2009	C543D	2020	C561J	2016	C580C	2030	C595GN	1617	C619GN	2009	C629J	2058
C536GM	2009	C543E	2020	C561K	2016	C580D	2030	C595H	1617	C619H	2009	C629K	2058
C536GN	2009	C543F	2020	C561L	2016	C580E	2030	C595J	1617	C619J	2009	C629L	2058
C536GP	2009	C543G	2020	C561M	2016	C580F	2030	C595K	1617	C619K	2009	C629M	2058
C536GT(2S)	2009	C543GN	2020	C561OR	2016	C580G	2030	C595L	1617	C619L	2009	C629OR	2058
C536GV(2S)	2009	C543H	2020	C561R	2016	C580GN	2030	C595M	1617	C619M	2009	C629R	2058
C536GY(2S)	2009	C543J	2020	C561X	2016	C580H	2030	C595OR	1617	C619OR	2009	C629X	2058
C536GZ	2009	C543K	2020	C561Y	2016	C580J	2030	C595X	1617	C619R	2009	C629Y	2058
C536H(2S)	2009	C543L	2020	C562(2S)	2016	C580K	2030	C595Y	1617	C619X	2009	C631	2009
C536J	2009	C543M	2020	C562(O)	2016	C580L	2030	C596(2S)	1617	C619Y	2009	C631(2S)	2009
C536K	2009	C543OR	2020	C562-OR	2016	C580M	2030	C596A	1617	C620	2009	C631A(2S)	2009
C536K(JAPAN)	2009	C543R	2020	C562A	2016	C580OR	2030	C596B	1617	C620(2S)	2009	C631B	2009
C536KE(JAPAN)	2009	C543X	2020	C562B	2016	C580R	2030	C596C	1617	C620-D	2009	C631C	2009
C536K(JAPAN)	2009	C543Y	2020	C562C	2016	C580T	2030	C596D	1617	C620-E	2009	C631D	2009
C536KNP	2009	C544(2S)	2016	C562D	2016	C580X	2030	C596E	1617	C620-OR	2009	C631E	2009
C536L	2009	C544A	2016	C562E	2016	C580Y	2030	C596F	1617	C620A	2009	C631F	2009
C536M	2009	C544AG	2016	C562F	2016	C581	2016	C596G	1617	C620B	2009	C631G	2009
C536NP	2009	C544B	2016	C562G	2016	C585	2020	C596GN	1617	C620C(2S)	2009	C631GN	2009
C536NPE	2009	C544C(2S)	2016	C562GN	2016	C586(2S)	2041	C596H	1617	C620CD(2S)	2009	C631H	2009
C536NPF	2009	C544D(2S)	2016	C562H	2016	C587(2S)	1617	C596J	1617	C620D(2S)	2009	C631J	2009

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C631K	2009	C641GN	2009	C647(2S)	2041	C657GN	2016	C664-OR	2041	C682L	2016	C688L	2058
C631L	2009	C641H	2009	C647Q(2S)	2041	C657H	2016	C664A	2041	C682M	2016	C688M	2058
C631M	2009	C641J	2009	C647R(2S)	2041	C657J	2016	C664B(2S)	2041	C682OR	2016	C688OR	2058
C631OR	2009	C641K	2009	C648(2S)	1617	C657K	2016	C664C(2S)	2041	C682R	2016	C688R	2058
C631R	2009	C641L	2009	C648A	1617	C657L	2016	C664D	2041	C682X	2016	C688X	2058
C631X	2009	C641M	2009	C648B	1617	C657M	2016	C664E	2041	C682Y	2016	C688Y	2058
C631Y	2009	C641OR	2009	C648C	1617	C657OR	2016	C664F	2041	C683	2016	C689(2S)	1617
C632	2009	C641R	2009	C648D	1617	C657R	2016	C664L	2041	C683(2S)	2016	C689A	1617
C632(1)	2009	C641X	2009	C648E(TRANS)	1617	C657X	2016	C664OR	2041	C683-0	2016	C689B	1617
C632(2S)	2009	C641Y	2009	C648F	1617	C657Y	2016	C664R	2041	C683-OR	2016	C689C	1617
C632-OR	2009	C642	2055	C648G	1617	C658(2S)	2016	C664Y	2041	C683A	2016	C689D	1617
C632A(2S)	2009	C642(2S)	2055	C648H(2S)	1617	C658A(2S)	2016	C666(2S)	2041	C683A(2S)	2016	C689E	1617
C632B	2009	C642A(2S)	2055	C648J	1617	C658B	2016	C666C	2041	C683B	2016	C689G	1617
C632C	2009	C643(2S)	2055	C648K	1617	C658C	2016	C667(2S)	2016	C683C	2016	C689GN	1617
C632D	2009	C643-OR	2055	C648L	1617	C658D	2016	C668(2S)	2016	C683D	2016	C689H(2S)	1617
C632E	2009	C643A(2S)	2055	C648M(TRANS)	1617	C658E	2016	C668-OR	2016	C683E	2016	C689J	1617
C632F	2009	C643B	2055	C648OR	1617	C658F	2016	C668-5P	2016	C683F	2016	C689K	1617
C632G	2009	C643C	2055	C648R	1617	C658G	2016	C668A(2S)	2016	C683G	2016	C689L	1617
C632GN	2009	C643D	2055	C648X	1617	C658GN	2016	C668B(2S)	2016	C683GN	2016	C689M	1617
C632H	2009	C643E	2055	C648Y	1617	C658H	2016	C668B1(2S)	2016	C683H	2016	C689OR	1617
C632J	2009	C643F	2055	C649(2S)	1617	C658J	2016	C668BC(2S)	2016	C683J	2016	C689R	1617
C632K	2009	C643G	2055	C649A	1617	C658K	2016	C668C(2S)	2016	C683K	2016	C689Y	1617
C632L	2009	C643GN	2055	C649B	1617	C658L	2016	C668C1(2S)	2016	C683L	2016	C689Y	1617
C632M	2009	C643H	2055	C649C	1617	C658M	2016	C668C2	2016	C683M	2016	C691	2017
C632OR	2009	C643I	2055	C649D	2016	C658OR	2016	C668CD(2S)	2016	C683OR	2016	C692	2017
C632R	2009	C643K	2055	C649E	1617	C658R	2016	C668D(2S)	2016	C683P	2016	C693	2016
C632X	2009	C643L	2055	C649F	1617	C658X	2016	C668D0(2S)	2016	C683Q	2016	C693-OR	2016
C632Y	2009	C643M	2055	C649G	1617	C658Y	2016	C668D1(2S)	2016	C683R	2016	C693A	2016
C633	2009	C643OR	2055	C649GN	1617	C659(2S)	2016	C668DE(2S)	2016	C683S	2016	C693B	2016
C633(2S)	2009	C643R	2055	C649H	1617	C659A	2016	C668DO(2S)	2016	C683V(2S)	2016	C693C	2016
C633-7(2S)	2009	C643X	2055	C649J	1617	C659B	2016	C668DV(2S)	2016	C683X	2016	C693D	2016
C633-OR	2009	C643Y	2055	C649K	1617	C659C	2016	C668DX(2S)	2016	C683Y	2016	C693E	2016
C633A(2S)	2009	C644	2016	C649L	1617	C659D	2016	C668DZ(2S)	2016	C684	2016	C693EB(2S)	2016
C633B	2009	C644(2S)	2016	C649M	1617	C659E	2016	C668E(2S)	2016	C684(2S)	2016	C693ET(2S)	2016
C633C	2009	C644-OR	2016	C649OR	1617	C659F	2016	C668E1(2S)	2016	C684-OR	2016	C693F(2S)	2016
C633D	2009	C644A	2016	C649R	1617	C659G	2016	C668E2(2S)	2016	C684A	2016	C693FC(2S)	2016
C633E	2009	C644B	2016	C649X	1617	C659GN	2016	C668EP(2S)	2016	C684A(2S)	2016	C693FL(2S)	2016
C633F	2009	C644C(2S)	2016	C649Y	1617	C659H	2016	C668EV(2S)	2016	C684B(2S)	2016	C693FP	2016
C633G(2S)	2009	C644D	2016	C650	1617	C659J	2016	C668EX(2S)	2016	C684BK(2S)	2016	C693FU(2S)	2016
C633GN	2009	C644E	2016	C650(2S)	2009	C659K	2016	C668F(2S)	2016	C684C	2016	C693G	2016
C633H(2S)	2009	C644F	2016	C650-OR	2009	C659L	2016	C668G	2016	C684D	2016	C693GL(2S)	2016
C633J	2009	C644F/494	2016	C650-Y	2009	C659M	2016	C668GN	2016	C684E	2016	C693GN	2016
C633K	2009	C644FH	2016	C650A	2009	C659OR	2016	C668H	2016	C684F(2S)	2016	C693GS(2S)	2016
C633L	2009	C644FHS	2016	C650B(2S)	2009	C659R	2016	C668K	2016	C684G	2016	C693GU(2S)	2016
C633M	2009	C644FR(2S)	2016	C650C	2009	C659X	2016	C668L	2016	C684GN	2016	C693GZ(2S)	2016
C633OR	2009	C644FS(2S)	2016	C650D	2009	C659Y	2016	C668M	2016	C684H	2016	C693H(2S)	2016
C633R	2009	C644G	2016	C650E	2009	C660	2016	C668OR	2016	C684J	2016	C693J	2016
C633X	2009	C644GN	2016	C650F	2009	C660(2S)	2016	C668R	2016	C684K	2016	C693K	2016
C633Y	2009	C644H(2S)	2016	C650G	2009	C661	2016	C668SP	2016	C684L	2016	C693L	2016
C634(2)	2009	C644J	2016	C650GN	2009	C661(2S)	2016	C668X	2016	C684M	2016	C693M	2016
C634(2S)	2009	C644K	2016	C650H	2009	C662(2S)	2016	C668Y	2016	C684OR	2016	C693NP	2016
C634-0	2009	C644L	2016	C650J	2009	C662A	2016	C673	2023	C684R	2016	C693OR	2016
C634-OR	2009	C644M	2016	C650K	2009	C662B	2016	C673(2S)	2016	C684TM	2016	C693R	2016
C634A(2S)	2009	C644OR	2016	C650L	2009	C662C	2016	C673B	2016	C684X	2016	C693U	2016
C634AK	2009	C644P(2S)	2016	C650M	2009	C662D	2016	C673C	2016	C684Y	2016	C693X	2016
C634AL	2009	C644P(2S)	2016	C650OR	2009	C662E	2016	C673C(JAPAN)	2016	C685R	2016	C693Y	2016
C634AXL	2009	C644Q(2S)	2016	C650R	2009	C662F	2016	C673C2(2S)	2016	C687(2S)	2041	C694(2S)	2016
C634B	2009	C644R	2016	C650X	2009	C662G	2016	C673D(2S)	2016	C687A	2041	C694A	2016
C634C	2009	C644S	2016	C650Y	2009	C662GN	2016	C674	2016	C687B	2041	C694B	2016
C634D	2009	C644S/494	2016	C653	2016	C662H	2016	C674(2S)	2016	C687C	2041	C694C	2016
C634E	2009	C644ST	2016	C655	2009	C662J	2016	C674(JAPAN)	2016	C687D	2041	C694D	2016
C634F	2009	C644T(2S)	2016	C655(2S)	1617	C662K	2016	C674-B	2016	C687E	2041	C694E(2S)	2016
C634G	2009	C644X	2016	C655A	1617	C662L	2016	C674-F	2016	C687F	2041	C694F(2S)	2016
C634GN	2009	C644Y	2016	C655B	1617	C662M	2016	C674B(2S)	2016	C687G	2041	C694G(2S)	2016
C634H	2009	C645(2S)	2016	C655C	1617	C662OR	2016	C674C(2S)	2016	C687GN	2041	C694GN	2016
C634J	2009	C645-OR	2016	C655D	1617	C662R	2016	C674CK	2016	C687H	2041	C694H	2016
C634K	2009	C645A(2S)	2016	C655E	1617	C662X	2016	C674CL	2016	C687J	2041	C694J	2016
C634L	2009	C645B(2S)	2016	C655F	1617	C662Y	2016	C674D(2S)	2016	C687K	2041	C694K	2016
C634M	2009	C645B-1	2016	C655G	1617	C663(2S)	2016	C674E(2S)	2016	C687L	2041	C694L	2016
C634OR	2009	C645C(2S)	2016	C655GN	1617	C663A	2009	C674F(2S)	2016	C687M	2041	C694M	2016
C634R	2009	C645D	2016	C655H	1617	C663B	2016	C674G(2S)	2016	C687OR	2041	C694OR	2016
C634SP	2009	C645E	2016	C655J	1617	C663C	2016	C678	2041	C687R	2041	C694R	2016
C634X	2009	C645F	2016	C655K	1617	C663D	2016	C682	2016	C687X	2041	C694X	2016
C634Y	2009	C645G(2S)	2016	C655L	1617	C663E	2016	C682(2S)	2016	C687Y	2041	C694Y	2016
C635	2009	C645GN	2016	C655M	1617	C663F	2016	C682-OR	2016	C688(2S)	2058	C694Z(2S)	2016
C635A(2S)	2009	C645GR	2016	C655OR	1617	C663G	2016	C682A	2016	C688-5P	2016	C703	2020
C636(2S)	2020	C645H	2016	C655R	1617	C663GN	2016	C682A(2S)	2016	C688A	2058	C704	2020
C639	1617	C645J	2016	C655X	1617	C663H	2016	C682B(2S)	2016	C688B	2058	C705(2S)	2016
C641	2009	C645K	2016	C655Y	1617	C663J	2016	C682C	2016	C688C	2058	C705A	2016
C641(2S)	2009	C645L	2016	C657(2S)	2016	C663K	2016	C682D	2016	C688D	2058	C705B(2S)	2016
C641A	2009	C645M	2016	C657A	2016	C663L	2016	C682E	2016	C688E	2058	C705C(2S)	2016
C641B(2S)	2009	C645N(2S)	2016	C657B	2016	C663M	2016	C682F	2016	C688F	2058	C705D(2S)	2016
C641C	2009	C645OR	2016	C657C	2016	C663OR	2016	C682G	2016	C688G	2058	C705E(2S)	2016
C641D	2009	C645R	2016	C657D	2016	C663R	2016	C682GN	2016	C688GN	2058	C705F(2S)	2016
C641E	2009	C645S	2016	C657E	2016	C663X	2016	C682H	2016	C688H	2058	C705G	2016
C641F	2009	C645X	2016	C657F	2016	C663Y	2016	C682J	2016	C688J	2058	C705GN	2016
C641G	2009	C645Y	2016	C657G	2016	C664	2041	C682K	2016	C688K	2058	C705J	2016

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C705K	2016	C711A(JAPAN)	2009	C711-OR	2009	C731F	2016	C734M	2009	C740G	2016	C762B	2016
C705L	2016	C711AE	2009	C715A(2S)	2009	C732D	2016	C734OR	2009	C740GN	2016	C762C	2016
C705M	2016	C711A-E(2S)	2009	C715B(2S)	2009	C732GN	2016	C734H	2009	C740H	2016	C762D	2016
C705OR	2016	C711AE(JAPAN)	2009	C715C(2S)	2009	C732GR(2S)	2016	C734HED	2009	C740J	2016	C762E	2016
C705R	2016	C711A-F	2009	C715D(2S)	2009	C732GR	2016	C734Y	2009	C740K	2016	C762F	2016
C705TV(2S)	2016	C711AF	2009	C715E(2S)	2009	C732GRN	2016	C734Y(2S)	2009	C740L	2016	C762G	2016
C705TVV	2016	C711AG	2009	C715EJ(2S)	2009	C732H	2016	C734YEL	2009	C740M	2016	C762GN	2016
C705TW	2016	C711AN	2009	C715EV(2S)	2009	C732J	2016	C735(2S)	2009	C740OR	2016	C762H	2016
C705X	2016	C711B	2009	C715F(2S)	2009	C732L	2016	C735-0(2S)	2009	C740R	2016	C762J	2016
C705Y	2016	C711C	2009	C715G	2009	C732M	2016	C735-GR	2009	C740X	2016	C762K	2016
C706	2016	C711D(2S)	2009	C715GH	2009	C732OR	2016	C735-GRN	2009	C740Y	2016	C762L	2016
C708(2S)	2030	C711E(2S)	2009	C715M	2009	C732R	2016	C735-0(2S)	2009	C742	2009	C762M	2016
C708-OR	2030	C711F	2009	C715J	2009	C732S(2S)	2016	C735-OR	2009	C744	2030	C762R	2016
C708A(2S)	2030	C711F(2S)	2009	C715K	2009	C732V(2S)	2016	C735-ORG	2009	C744(2S)	2030	C762S	2016
C708AA(2S)	2030	C711G(2S)	2009	C715L	2009	C732V10	2016	C735-OWN	2009	C744A	2030	C762T	2016
C708AB(2S)	2030	C711GN	2009	C715M	2009	C732V10	2016	C735-OY	2009	C748(2S)	2016	C763(2S)	2016
C708AC(2S)	2030	C711H	2009	C715OR	2009	C732X	2016	C735-R(2S)	2009	C748A	2016	C743(JAPAN)	2016
C708AH(2S)	2030	C711J	2009	C715R	2009	C732Y(2S)	2016	C735-RED	2009	C748C	2016	C743-C	2016
C708B(2S)	2030	C711L	2009	C715X	2009	C733(2S)	2016	C735-Y	2009	C748D	2016	C743-OR	2016
C708C(2S)	2030	C711M	2009	C715XL(2S)	2009	C733-0(2S)	2016	C735-YEL	2009	C748E	2016	C743A	2016
C708D	2030	C711OR	2009	C715Y	2009	C733-B	2016	C735A	2009	C748F	2016	C743B(2S)	2016
C708E	2030	C711R	2009	C716(2S)	2009	C733-BL	2016	C735B(2S)	2009	C748G	2016	C743C(2S)	2016
C708F	2030	C711S	2009	C716A	2009	C733-BLU	2016	C735C	2009	C748GN	2016	C743D(2S)	2016
C708G	2030	C711T	2009	C716B(2S)	2009	C733-G	2016	C735D	2009	C748H	2016	C743E	2016
C708GN	2030	C712(2S)	2009	C716C(2S)	2009	C733-GR	2016	C735E	2009	C748J	2016	C743F	2016
C708H	2030	C712A(2S)	2009	C716D(2S)	2009	C733-GRN	2016	C735F(2S)	2009	C748K	2016	C743G	2016
C708HA	2030	C712B	2009	C716E(2S)	2009	C733-BLU(2S)	2016	C735FA3(2S)	2009	C748L	2016	C743GN	2016
C708HB	2030	C712BC	2009	C716F(2S)	2009	C733-OR	2016	C735G	2009	C748M	2016	C743H	2016
C708L	2030	C712C(2S)	2009	C716G(2S)	2009	C733-ORG	2016	C735GN	2009	C748OR	2016	C743J	2016
C708M	2030	C712CD	2009	C716GN	2009	C733-Y	2016	C735GR(2S)	2009	C748R	2016	C743K	2016
C708OR	2030	C712D(2S)	2009	C716N	2009	C733-YEL	2016	C735GRN	2009	C748X	2016	C743L	2016
C708R	2030	C712DC	2009	C716J	2009	C733A	2016	C735H(2S)	2009	C748Y	2016	C743M	2016
C708X	2030	C712E(2S)	2009	C716K	2009	C733B	2016	C735I(2S)	2009	C751	2016	C743OR	2016
C708Y	2030	C712F	2009	C716L	2009	C733BL(2S)	2016	C735J(2S)	2009	C752(2S)	2009	C743X	2016
C709(2S)	2009	C712G	2009	C716M	2009	C733BLK	2016	C735L(2S)	2009	C752-ORG-G	2009	C743Y	2016
C709A	2009	C712GN	2009	C716OR	2009	C733BLU	2016	C735M	2009	C752-RED-G	2009	C764	2035
C709B(2S)	2009	C712H	2009	C716R	2009	C733C	2016	C735O	2009	C752-YEL-G	2009	C764(2S)	2009
C709C(2S)	2009	C712J	2009	C716X	2009	C733D	2016	C735OR	2009	C752A	2009	C766	2041
C709CD(2S)	2009	C712K	2009	C716Y	2009	C733E	2016	C735RED	2009	C752B	2009	C767	2041
C709D(2S)	2009	C712L(TRANS)	2009	C717(2S)	2016	C733ER	2016	C735S	2009	C752C	2009	C771	2058
C709E	2009	C712M	2009	C717(JAPAN)	2016	C733F	2016	C735Y(2S)	2009	C752D	2009	C771A	2058
C709F	2009	C712N	2009	C717-TM	2016	C733G	2016	C735YEL	2009	C752E	2009	C771B	2058
C709G	2009	C712P	2009	C717R(2S)	2016	C733GN	2016	C735YFA-5	2009	C752F	2009	C771BX	2058
C709GN	2009	C712Q(2S)	2009	C717RBL(2S)	2016	C733GR(2S)	2016	C737	2009	C752G(2S)	2009	C771C	2058
C709H	2009	C712R	2009	C717BLK(2S)	2016	C733GRN	2016	C737Y	2009	C752GA	2009	C771D	2058
C709J	2009	C712Y	2009	C717F	2016	C733H	2016	C738(2S)	2016	C752GN	2009	C771E	2058
C709L	2009	C713(2S)	2009	C717G	2016	C733J	2016	C738A	2016	C752G-O	2009	C771F	2058
C709M	2009	C713A	2009	C717GN	2016	C733K	2016	C738B	2016	C752G-R	2009	C771G	2058
C709OR	2009	C713B	2009	C717H	2016	C733L	2016	C738C(2S)	2016	C752G-TM-Y	2009	C771GN	2058
C709X	2009	C713C	2009	C717K	2016	C733M	2016	C738D(2S)	2016	C752G-Y	2009	C771H	2058
C709Y	2009	C713D	2009	C717L	2016	C733O	2016	C738E	2016	C752GY(JAPAN)	2009	C771J	2058
C710(2S)	2009	C713E	2009	C717M	2016	C733OR	2016	C738F	2016	C752H	2009	C771K	2058
C710(C)	2009	C713F	2009	C717TM	2016	C733OR	2016	C738G	2016	C752J	2009	C771L	2058
C710(JAPAN)	2009	C713G	2009	C717X	2016	C733OR(2S)	2016	C738GN	2016	C752K	2009	C771M	2058
C710-0	2009	C713GN	2009	C718	2009	C733S	2016	C738M	2016	C752L	2009	C771OR	2058
C710-3	2009	C713H	2009	C719	2009	C733S-BL	2016	C738J	2016	C752M	2009	C771R	2058
C710-5	2009	C713J	2009	C719Q	2009	C733V(2S)	2016	C738K	2016	C752OR	2009	C771X	2058
C710-13	2009	C713K	2009	C720	2016	C733X	2016	C738L	2016	C752R	2009	C771Y	2058
C710-14	2009	C713L(TRANS)	2009	C720(2S)	2016	C733Y(2S)	2016	C738M	2016	C752X	2009	C772(2S)	2058
C710-D	2009	C713M	2009	C721	2009	C733YEL	2016	C738OR	2016	C752Y	2009	C772-OR	2058
C710-E	2009	C713MC	2009	C722	2016	C734	2009	C738R	2016	C754	2009	C772A	2058
C710-OR	2009	C713MB	2009	C722(2S)	2016	C734-0(2S)	2009	C738X	2016	C755	1617	C772B	2058
C710AL	2009	C713ME	2009	C723	2016	C734-G	2009	C738Y	2016	C756OR	2009	C772B(2S)	2058
C710B(2S)	2009	C713OE	2009	C723BL	2016	C734-GR	2009	C738Y(2S)	2016	C760	2009	C772BG(2S)	2058
C710B2	2009	C713R	2009	C724	2009	C734-GRN	2009	C739A	2016	C760(2S)	2041	C772BH(2S)	2058
C710B(2S)	2009	C713W	2009	C725(2S)	2009	C734-0(2S)	2009	C739B	2016	C761(2S)	2016	C772BV(2S)	2058
C710C(2S)	2009	C713X	2009	C725-06	2009	C734-OR	2009	C739C(2S)	2016	C761A	2016	C772BX(2S)	2058
C710D(2S)	2009	C713Y	2009	C726	2009	C734-ORG	2009	C739D	2016	C761B	2016	C772BY(2S)	2058
C710D(JAPAN)	2009	C714(2S)	2009	C732(2S)	2016	C734-OY	2009	C739E	2016	C761C	2016	C772C	2058
C710DB	2009	C714A	2009	C732-B	2016	C734-R(2S)	2009	C739F	2016	C761D	2016	C772C1(2S)	2058
C710DE	2009	C714B	2009	C732-BL	2016	C734-REP	2009	C739G	2016	C761E	2016	C772C2(2S)	2058
C710E(2S)	2009	C714C	2009	C732-BLU	2016	C734-Y(2S)	2009	C739GN	2016	C761F	2016	C772CA	2058
C710F	2009	C714D	2009	C732-G	2016	C734-YEL	2009	C739H	2016	C761G	2016	C772CK(2S)	2058
C710G	2009	C714E	2009	C732-GR	2016	C734A	2009	C739K	2016	C761GN	2016	C772CL(2S)	2058
C710GN	2009	C714F	2009	C732-GRN	2016	C734B	2009	C739L	2016	C761H	2016	C772CS(2S)	2058
C710H	2009	C714G	2009	C732-OR	2016	C734C	2009	C739M	2016	C761J	2016	C772CU(2S)	2058
C710K	2009	C714GN	2009	C732-V	2016	C734D	2009	C739OR	2016	C761K	2016	C772CV(2S)	2058
C710L	2009	C714H	2009	C732-V10	2016	C734E	2009	C739R	2016	C761L	2016	C772CX(2S)	2058
C710M	2009	C714J	2009	C732-V10	2016	C734F	2009	C739Y	2016	C761M	2016	C772D(2S)	2058
C710OR	2009	C714K	2009	C732A	2016	C734G	2009	C740	2016	C761OR	2016	C772D1(2S)	2058
C710R	2009	C714L	2009	C732B	2016	C734GN	2009	C740(2S)	2016	C761P	2016	C772D1(2S)	2058
C710X	2009	C714M	2009	C732BL(2S)	2016	C734GR(2S)	2009	C740A	2016	C761R	2016	C772D1(2S)	2058
C710XL	2009	C714OR	2009	C732BL-T	2016	C734GRN	2016	C740B	2016	C761X	2016	C772D1(2S)	2058
C710Y	2009	C714R	2009	C732BLH	2016	C734H	2009	C740C	2016	C761Y(2S)	2016	C772EY(2S)	2058
C711(2S)	2009	C714X	2009	C732C	2016	C734J	2009	C740D	2016	C761Z(2S)	2016	C772F(2S)	2058
C711-OR	2009	C714Y	2009	C732D	2016	C734K	2009	C740E	2016	C762	2016	C772F(2S)	2058
C711A(2S)	2009	C715	2009	C732E	2016	C734L	2009	C740F	2016	C762(2S)	2016	C772G	2058

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
C772GN	2058	C785BRN	2058	C793-RED	2041	C814J	2009	C828A(2S)	2009	C838-O	2009	C849X	1617
C772H	2058	C785C	2058	C793-Y	2041	C814K	2009	C828A(JAPAN)	2009	C838A(2S)	2009	C849Y	1617
C772J	2058	C785D(2S)	2058	C793-YEL	2041	C814M	2009	C828AO	2009	C838BL	2009	C850(2S)	1617
C772K(2S)	2058	C785E(2S)	2058	C793A	2041	C814OR	2009	C828AQ(2S)	2009	C838C(2S)	2009	C850A	1617
C772KB(2S)	2058	C785F	2058	C793B	2041	C814R	2009	C828AR(2S)	2009	C838E(2S)	2009	C850B	1617
C772KC(2S)	2058	C785G	2058	C793BL(2S)	2041	C814X	2009	C828AS(2S)	2009	C838F(2S)	2009	C850C	1617
C772KD(2S)	2058	C785GN	2058	C793C	2041	C814Y	2009	C828B	2009	C838H(2S)	2009	C850D	1617
C772KD1(2S)	2058	C785GR	2058	C793E	2041	C815(2S)	2009	C828C	2009	C838HF	2009	C850E	1617
C772KD2(2S)	2058	C785H	2058	C793F	2041	C815-1	2009	C828D	2009	C838I	2009	C850F	1617
C772L	2058	C785JA	2058	C793G	2041	C815A(2S)	2009	C828E(2S)	2009	C838J	2009	C850G	1617
C772M	2058	C785K	2058	C793GN	2041	C815B(2S)	2009	C828F(2S)	2009	C838K(2S)	2009	C850GN	1617
C772OR	2058	C785L	2058	C793H	2041	C815BK	2009	C828G	2009	C838L(2S)	2009	C850H	1617
C772R	2058	C785M	2058	C793J	2041	C815C(2S)	2009	C828GN	2009	C838M(2S)	2009	C850J	1617
C772RB-D(2S)	2058	C785O	2058	C793K	2041	C815D	2009	C828H(2S)	2009	C838N	2009	C850K	1617
C772RD(2S)	2058	C785R(2S)	2058	C793L	2041	C815E	2009	C828HR	2009	C839	2009	C850L	1617
C772RS-D	2058	C785RA	2058	C793M	2041	C815F(2S)	2009	C828K(2S)	2009	C839-E	2009	C850M	1617
C772X	2058	C785RED	2058	C793OR	2041	C815G	2009	C828L	2009	C839-F	2009	C850OR	1617
C772Y	2058	C785V	2058	C793R(2S)	2041	C815GN	2009	C828LS(2S)	2009	C839A(2S)	2009	C850R	1617
C773(2S)	2009	C785X	2058	C793X	2041	C815H	2009	C828M	2009	C839B(2S)	2009	C850X	1617
C773A	2009	C785Y	2058	C793Y(2S)	2041	C815J	2009	C828OR	2009	C839C(2S)	2009	C850Y	1617
C773B	2009	C785YEL	2058	C794	2041	C815K(2S)	2009	C828P(2S)	2009	C839D(2S)	2009	C858(2S)	2016
C773C(2S)	2009	C786(2S)	2016	C794A	2041	C815L(2S)	2009	C828PQ	2009	C839E(2S)	2009	C858A	2016
C773D(2S)	2009	C786A	2016	C794B	2041	C815LJ	2009	C828Q	2009	C839F(2S)	2009	C858B	2016
C773E(2S)	2009	C786B	2016	C794C	2041	C815M(2S)	2009	C828Q-6	2009	C839G	2009	C858C	2016
C773F	2009	C786C	2016	C794D	2041	C815OR	2009	C828QRS(2S)	2009	C839GN	2009	C858D	2016
C773G	2009	C786D	2016	C794E	2041	C815R	2009	C828R	2009	C839H(2S)	2009	C858E	2016
C773GN	2009	C786E	2016	C794F	2041	C815S(2S)	2009	C828R(JAPAN)	2009	C839J(2S)	2009	C858F(2S)	2016
C773H	2009	C786F	2016	C794G	2041	C815SA(2S)	2009	C828R/494	2016	C839J1	2009	C858FG(2S)	2016
C773J	2009	C786G	2016	C794GN	2041	C815SC(2S)	2009	C828R-1	2009	C839JH	2009	C858G(2S)	2016
C773K	2009	C786GN	2016	C794H	2041	C815X	2009	C828RA	2009	C839K	2009	C858GA	2016
C773L	2009	C786H	2016	C794J	2041	C815Y	2009	C828RH	2009	C839L(2S)	2009	C858GN	2016
C773M	2009	C786J	2016	C794K	2041	C816(2S)	2030	C828RS	2009	C839M(2S)	2009	C858H	2016
C773OR	2009	C786K	2016	C794L	2041	C816A	2030	C828RST	2009	C839OR	2009	C858J	2016
C773R	2009	C786L	2016	C794OR	2041	C816B	2030	C828RT	2009	C839R	2009	C858K	2016
C773X	2009	C786M	2016	C794R(2S)	2041	C816C	2030	C828S(2S)	2009	C839X	2009	C858L	2016
C773Y	2009	C786OR	2016	C794RA	2041	C816D	2030	C828T(2S)	2009	C839Y	2009	C858M	2016
C784(2S)	2058	C786R(2S)	2016	C794X	2041	C816E	2030	C828X	2009	C847(2S)	1617	C858OR	2016
C784-O(2S)	2058	C786X	2016	C794Y	2041	C816F	2030	C828Y(2S)	2009	C847A	1617	C858R	2016
C784-6	2058	C786Y	2016	C796(2S)	1617	C816G	2030	C828YL	2009	C847B	1617	C858X	2016
C784-B	2058	C787(2S)	2016	C796A	1617	C816GN	2030	C829	2009	C847C	1617	C858Y	2016
C784-BN	2058	C787A	2016	C796B	1617	C816H	2030	C829-OR	2009	C847D	1617	C859(2S)	2016
C784-BRN	2058	C787B	2016	C796C	1617	C816K(2S)	2030	C829A(2S)	2009	C847E	1617	C859A	2016
C784-O(2S)	2058	C787C	2016	C796D	1617	C816L	2030	C829AK	2009	C847F	1617	C859B	2016
C784-OR	2058	C787D	2016	C796E	1617	C816M	2030	C829B	2009	C847G	1617	C859D	2016
C784-ORG	2058	C787E	2016	C796F	1617	C816OR	2030	C829BC(2S)	2009	C847GN	1617	C859E(2S)	2016
C784-R	2058	C787F	2016	C796G	1617	C816R	2030	C829B(2S)	2009	C847H	1617	C859F(2S)	2016
C784-RED	2058	C787G	2016	C796GN	1617	C816X	2030	C829BK	2009	C847J	1617	C859FG(2S)	2016
C784-Y	2058	C787GN	2016	C796H	1617	C816Y	2030	C829C	2009	C847K	1617	C859G(2S)	2016
C784A(2S)	2058	C787H	2016	C796J	1617	C826(2S)	2030	C829CL	2009	C847L	1617	C859GK(2S)	2016
C784B	2058	C787K	2016	C796K	1617	C826A	2030	C829D(2S)	2009	C847M	1617	C859GL	2016
C784BN(2S)	2058	C787L	2016	C796L	1617	C826B	2030	C829E	2009	C847OR	1617	C859GM	2016
C784BN-1	2058	C787M	2016	C796M	1617	C826C	2030	C829G	2009	C847R	1617	C859GN	2016
C784BRN	2058	C787OR	2016	C796OR	1617	C826D	2030	C829H	2009	C847X	1617	C859H	2016
C784C	2058	C787R	2016	C796R	1617	C826E	2030	C829H	2009	C848(2S)	1617	C859J	2016
C784D	2058	C787X	2016	C796X	1617	C826F	2030	C829K	2009	C848A	1617	C859K	2016
C784E	2058	C787Y	2016	C796Y	1617	C826G	2030	C829L	2009	C848B	1617	C859L	2016
C784F	2058	C789(2S)	2020	C797(2S)	2009	C826H	2030	C829M	2009	C848C	1617	C859M	2016
C784G	2058	C789-O(2S)	2020	C797A	2009	C826J	2030	C829OR	2009	C848D	1617	C859OR	2016
C784GN	2058	C789-O(2S)	2020	C797B	2009	C826K	2030	C829R(2S)	2009	C848E	1617	C859R	2016
C784H	2058	C789-R(2S)	2020	C797C	2009	C826L	2030	C829X(2S)	2009	C848F	1617	C859X	2016
C784J	2058	C789-Y(2S)	2020	C797D	2009	C826M	2030	C829Y(2S)	2009	C848G	1617	C859Y	2016
C784K	2058	C789A	2020	C797E	2009	C826OR	2030	C831	2020	C848GN	1617	C860(2S)	2016
C784L	2058	C789B	2020	C797F	2009	C826R	2030	C835(2S)	2016	C848H	1617	C860A	2016
C784M	2058	C789C	2020	C797G	2009	C826X	2030	C836(2S)	2016	C848J	1617	C860B	2016
C784OR	2058	C789D	2020	C797GN	2009	C826Y	2030	C836M	2016	C848K	1617	C860C(2S)	2016
C784P	2058	C789E	2020	C797H	2009	C827(2S)	2030	C837(2S)	2058	C848L	1617	C860D(2S)	2016
C784Q	2058	C789F	2020	C797J	2009	C827A	2030	C837A	2058	C848M	1617	C860E(2S)	2016
C784R(2S)	2058	C789G	2020	C797K	2009	C827B	2030	C837B	2058	C848OR	1617	C860F	2016
C784RA	2058	C789GN	2020	C797L	2009	C827C	2030	C837C	2058	C848R	1617	C860G	2016
C784RED	2058	C789H	2020	C797M	2009	C827D	2030	C837D	2058	C848X	1617	C860GN	2016
C784X	2058	C789J	2020	C797OR	2009	C827E	2030	C837E	2058	C848Y	1617	C860H	2016
C785(2S)	2058	C789K	2020	C797R	2009	C827F	2030	C837F(2S)	2058	C849(2S)	1617	C860J	2016
C785-O	2058	C789L	2020	C797X	2009	C827G	2030	C837G	2058	C849A	1617	C860K	2016
C785-B	2058	C789M	2020	C797Y	2009	C827GN	2030	C837GN	2058	C849B	1617	C860L	2016
C785-BN	2058	C789OR	2020	C801	2030	C827H	2030	C837H(2S)	2058	C849C	1617	C860M	2016
C785-BRN	2058	C789R	2020	C802	2030	C827J	2030	C837J	2058	C849D	1617	C860OR	2016
C785-O	2058	C789X	2020	C811	2016	C827K	2030	C837K(2S)	2058	C849E	1617	C860R	2016
C785-ORG	2058	C789Y	2020	C814(2S)	2009	C827M	2030	C837KL	2058	C849F	1617	C860X	2016
C785-R	2058	C790	2020	C814A	2009	C827OR	2030	C837L(2S)	2058	C849G	1617	C860Y	2016
C785-RED	2058	C790-O	2020	C814B	2009	C827R	2030	C837M	2058	C849GN	1617	C863(2S)	2016
C785-Y	2058	C790-R	2020	C814C	2009	C827X	2030	C837OR	2058	C849H	1617	C863A	2016
C785-YEL	2058	C790-Y	2020	C814D	2009	C827Y	2030	C837R	2050	C849J	1617	C863B	2016
C785A	2058	C790Y	2020	C814E	2009	C828	2009	C837WF(2S)	2058	C849K	1617	C863C	2016
C785B	2058	C793(2S)	2041	C814F	2009	C828(N)	2009	C837X	2058	C849L	1617	C863D	2016
C785BL	2058	C793-BL	2041	C814G	2009	C828-O	2009	C837Y	2058	C849M	1617	C863E	2016
C785BN(2S)	2058	C793-BLU	2041	C814GN	2009	C828-O(2S)	2009	C838	2009	C849OR	1617	C863F	2016
C785BR	2058	C793-R	2041	C814H	2009	C828-OR	2009	C838-2	2009	C849R	1617	C863G	2016

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C863GN	2016	C876C(2S)	2030	C900(2S)	2016	C918E	2058	C924G	2016	C929EZ	2016	C933H	2009
C863H	2016	C876D(2S)	2030	C900-OR	2016	C918F	2058	C924GN	2016	C929F(2S)	2016	C933J	2009
C863J	2016	C876E(2S)	2030	C900A(2S)	2016	C918G	2058	C924H	2016	C929FK(2S)	2016	C933K	2009
C863K	2014	C876F(2S)	2030	C900AF	2016	C918GN	2058	C924J	2016	C929G	2016	C933L	2009
C863L	2016	C876G	2030	C900B(2S)	2016	C918H	2058	C924K	2016	C929GN	2016	C933M	2009
C863M	2016	C876GN	2030	C900C(2S)	2016	C918J	2058	C924L	2016	C929H	2016	C933OR	2009
C863OR	2016	C876H	2030	C900D(2S)	2016	C918K	2058	C924M(2S)	2016	C929J	2016	C933R	2009
C863R	2016	C876J	2030	C900E(2S)	2016	C918L	2058	C924OR	2016	C929K	2016	C933X	2009
C863X	2016	C876K	2030	C900F(2S)	2016	C918LF	2058	C924R	2016	C929L	2016	C933Y	2009
C863Y	2016	C876L	2030	C900G	2016	C918M	2058	C924X	2016	C929M	2016	C934	1617
C864(2S)	2016	C876M	2030	C900J	2016	C918OR	2058	C924Y	2016	C929NP	2016	C934-O	1617
C870(2S)	2009	C876OR	2030	C900K	2016	C918R	2058	C925(2S)	2009	C929OR	2016	C934A	1617
C870A	2009	C876R	2030	C900L(2S)	2016	C918X	2058	C925A	2009	C929R	2016	C934B	1617
C870B	2009	C876TV(2S)	2030	C900M(2S)	2016	C918XL	2058	C925B	2009	C929SP	2016	C934C(2S)	1617
C870C	2009	C876TV(2S)	2030	C900OR	2016	C918Y	2058	C925C	2009	C929X	2016	C934D(2S)	1617
C870D	2009	C876TV-E	2030	C900R	2016	C920(2S)	2058	C925D	2009	C929Y	2016	C934E(2S)	1617
C870E(2S)	2009	C876TVE(2S)	2030	C900S	2016	C920-OQ	2058	C925E	2009	C930(2S)	2016	C934F(2S)	1617
C870F(2S)	2009	C876TVEF(2S)	2030	C900SA	2016	C920-OR	2058	C925F	2009	C930-OR	2016	C934G(2S)	1617
C870FL	2009	C876TV-F	2030	C900SB	2016	C920A	2058	C925G	2009	C930A	2016	C934GN	1617
C870G	2009	C876TVF	2030	C900SC	2016	C920B	2058	C925GN	2009	C930B(2S)	2016	C934H	1617
C870GN	2009	C876X	2030	C900SD	2016	C920C	2058	C925H	2009	C930BK(2S)	2016	C934J	1617
C870H	2009	C876Y	2030	C900U(2S)	2016	C920CL	2058	C925J	2009	C930C(2S)	2016	C934K	1617
C870J	2009	C877	1617	C900UE	2016	C920D	2058	C925K	2009	C930C-IF	2016	C934L	1617
C870K	2009	C878	1617	C900V	2016	C920E(2S)	2058	C925L	2009	C930CK(2S)	2016	C934M	1617
C870L	2009	C879	2016	C900VE	2016	C920F	2058	C925M	2009	C930CL(2S)	2016	C934OR	1617
C870M	2009	C883	2020	C900X	2016	C920G	2058	C925OR	2009	C930CS(2S)	2016	C934Q	1617
C870OR	2009	C889(2S)	2041	C900Y	2016	C920GN	2058	C925R	2009	C930D(2S)	2016	C934R	1617
C870R	2009	C892	2020	C903	2009	C920H	2058	C925X	2009	C930DB	2016	C934X	1617
C870X	2009	C894(2S)	2009	C904	2009	C920L	2058	C925Y	2009	C930DC	2016	C934Y	1617
C870Y	2009	C894A	2009	C906	1617	C920M	2058	C927(2S)	2016	C930DE(2S)	2016	C936(2S)	2055
C871(2S)	2009	C894B	2009	C906F	1617	C920OR	2058	C927A(2S)	2016	C930DK	2016	C936A	2055
C871-G	2009	C894C	2009	C907(2S)	1617	C920Q(2S)	2058	C927B(2S)	2016	C930DS(2S)	2016	C936B	2055
C871A	2009	C894D	2009	C907A(2S)	1617	C920R(2S)	2058	C927C(2S)	2016	C930DT(2S)	2016	C936BK	2055
C871AM	2009	C894E	2009	C907AC(2S)	1617	C920X	2058	C927C(2S)	2016	C930DT-2(2S)	2016	C936C	2055
C871B	2009	C894F	2009	C907AD(2S)	1617	C920Y	2058	C927CK	2016	C930DX(2S)	2016	C936D	2055
C871C	2009	C894G	2009	C907AH(2S)	1617	C921(2S)	2016	C927CT	2016	C930DZ(2S)	2016	C936E	2055
C871D(2S)	2009	C894GN	2009	C907B	1617	C921A	2016	C927CU(2S)	2016	C930E(2S)	2016	C936F	2055
C871E(2S)	2009	C894H	2009	C907C(2S)	1617	C921B	2016	C927CW(2S)	2016	C930E(JAPAN)	2016	C936G	2055
C871F(2S)	2009	C894J	2009	C907D(2S)	1617	C921C	2016	C927D(2S)	2016	C930EP(2S)	2016	C936GN	2055
C871G(2S)	2009	C894K	2009	C907E	1617	C921C(2S)	2016	C927E(2S)	2016	C930ET(2S)	2016	C936H	2055
C871GN	2009	C894L	2009	C907F	1617	C921CL	2016	C927F	2016	C930EV(2S)	2016	C936J	2055
C871H	2009	C894M	2009	C907G	1617	C921D	2016	C927G	2016	C930EX(2S)	2016	C936K	2055
C871J	2009	C894OR	2009	C907GN	1617	C921E	2016	C927GN	2016	C930F(2S)	2016	C936L	2055
C871K	2009	C894R	2009	C907H(2S)	1617	C921F	2016	C927H	2016	C930G	2016	C936M	2055
C871L	2009	C894X	2009	C907HA(2S)	1617	C921G	2016	C927J	2016	C930GN	2016	C936OR	2055
C871M	2009	C894Y	2009	C907J	1617	C921GN	2016	C927K	2016	C930H	2016	C936R	2055
C871OR	2009	C896(2S)	1617	C907K	1617	C921H	2016	C927L	2016	C930J	2016	C936X	2055
C871R	2009	C896A	1617	C907L	1617	C921J	2016	C927M	2016	C930K	2016	C936Y	2055
C871X	2009	C896B	1617	C907M	1617	C921K(2S)	2016	C927OR	2016	C930L	2016	C938(2S)	2009
C871Y	2009	C896C	1617	C907OR	1617	C921L(2S)	2016	C927R	2016	C930M	2016	C938-O	2009
C875(2S)	2030	C896D	1617	C907R	1617	C921M(2S)	2016	C927X	2016	C930NP	2016	C938A(2S)	2009
C875-1(2S)	2030	C896E	1617	C907X	1617	C921OR	2016	C927XL	2016	C930OR	2016	C938B(2S)	2009
C875-1C(2S)	2030	C896F	1617	C907Y	1617	C921R	2016	C927Y	2016	C930R	2016	C938C(2S)	2009
C875-1D(2S)	2030	C896G	1617	C909	2017	C921W	2016	C927Z	2016	C930SP	2016	C938D	2009
C875-1E(2S)	2030	C896GN	1617	C911	2017	C921X	2016	C928(2S)	2016	C930X	2016	C938E	2009
C875-1F(2S)	2030	C896J	1617	C911A	2017	C921Y	2016	C928A	2016	C930Y	2016	C938F	2009
C875-2(2S)	2030	C896K	1617	C912(2S)	2016	C922(2S)	2009	C928B(2S)	2016	C932(2S)	2017	C938G	2009
C875-2C(2S)	2030	C896L	1617	C912M	1617	C922A(2S)	2009	C928C(2S)	2016	C932A	2017	C938GN	2009
C875-2D(2S)	2030	C896M	1617	C914	1617	C922B(2S)	2009	C928D(2S)	2016	C932B	2017	C938H	2009
C875-2E(2S)	2030	C896OR	1617	C914A	1617	C922C(2S)	2009	C928E(2S)	2016	C932BK	2017	C938J	2009
C875-2F(2S)	2030	C896R	1617	C915	1617	C922K(2S)	2009	C928F	2016	C932C	2017	C938K	2009
C875-3(2S)	2030	C896X	1617	C915A	1617	C922L(2S)	2009	C928G	2016	C932D	2017	C938L	2009
C875-3C(2S)	2030	C896Y	1617	C916	2020	C922M(2S)	2009	C928GN	2016	C932E(2S)	2017	C938M	2009
C875-3D(2S)	2030	C897(2S)	2041	C917(2S)	2016	C922N(2S)	2016	C928H	2016	C932F	2017	C938OR	2009
C875-3E(2S)	2030	C897A(2S)	2041	C917A	2016	C922O(2S)	2016	C928J	2016	C932G	2017	C938R	2009
C875-3F(2S)	2030	C897B(2S)	2041	C917B	2016	C922P(2S)	2016	C928K	2016	C932GN	2017	C938X	2009
C875B	2030	C898(2S)	2041	C917C	2016	C922Q(2S)	2016	C928L	2016	C932H	2017	C938Y	2009
C875C(2S)	2030	C898A(2S)	2041	C917D	2016	C922R(2S)	2016	C928M	2016	C932J	2017	C941(2S)	2009
C875D(2S)	2030	C898B(2S)	2041	C917E	2016	C922S(2S)	2016	C928OR	2016	C932K	2017	C941-04	2009
C875DL	2030	C899	1617	C917F	2016	C922T(2S)	2016	C928R	2016	C932L	2017	C941-0Y	2009
C875E(2S)	2030	C899A	1617	C917G	2016	C922U(2S)	2016	C928X	2016	C932M	2017	C941-O(2S)	2009
C875EL	2030	C899B	1617	C917GN	2016	C922V(2S)	2016	C928Y	2016	C932OR	2017	C941-OY	2009
C875F(2S)	2030	C899C	1617	C917H	2016	C922W(2S)	2016	C929(2S)	2016	C932R	2017	C941-R(2S)	2009
C875G	2030	C899D	1617	C917J	2016	C922X(2S)	2016	C929-O(2S)	2016	C932X	2017	C941-Y(2S)	2009
C875GN	2030	C899E	1617	C917M(2S)	2016	C922Y(2S)	2016	C929-O	2016	C932Y	2017	C941K	2009
C875J	2030	C899F	1617	C917L	2016	C922Z	2016	C929A	2016	C933(2S)	2009	C941O	2009
C875K	2030	C899G	1617	C917M	2016	C923OR	2016	C929B(2S)	2016	C933A	2009	C941R(2S)	2009
C875L	2030	C899GN	1617	C917OR	2016	C923R	2016	C929C(2S)	2016	C933B	2009	C941TM	2009
C875M	2030	C899H	1617	C917R	2016	C923X	2016	C929C(2S)	2016	C933BB(2S)	2009	C941TM-O	2009
C875OR	2030	C899J	1617	C917X	2016	C923Y	2016	C929D(2S)	2016	C933C(2S)	2009	C941Y	2009
C875X	2030	C899K(2S)	1617	C917Y	2016	C923Z	2016	C929D1(2S)	2016	C933D(2S)	2009	C942	1617
C875Y	2030	C899L	1617	C918(2S)	2058	C924A	2016	C929DE(2S)	2016	C933E(2S)	2009	C943(2S)	1617
C876(2S)	2030	C899M	1617	C918A	2058	C924B	2016	C929DP(2S)	2016	C933F(2S)	2009	C943A(2S)	1617
C876-E	2030	C899OR	1617	C918AL	2058	C924C	2016	C929DU(2S)	2016	C933FB	2009	C943B(2S)	1617
C876-F	2030	C899R	1617	C918B	2058	C924D	2016	C929DV(2S)	2016	C933FP(2S)	2009	C943C(2S)	1617
C876A	2030	C899X	1617	C918C	2058	C924E(2S)	2016	C929E(2S)	2016	C933G(2S)	2009	C943D	1617
C876B	2030	C899Y	1617	C918D	2058	C924F(2S)	2016	C929ED(2S)	2016	C933GN	2009	C943E	1617

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C943F	1617	C948J	2016	C967G	1617	C987A	2016	C1004J	2055	C1026J	2016	C1045B	2055
C943G	1617	C948K	2016	C967GN	1617	C988	2016	C1004K	2055	C1026K	2016	C1045B(2S)	2055
C943GN	1617	C948L	2016	C967H	1617	C988A	2016	C1004L	2055	C1026L	2016	C1045C(2S)	2055
C943H	1617	C948M	2016	C967J	1617	C988B	2016	C1004M	2055	C1026M	2016	C1045D(2S)	2055
C943J	1617	C948OR	2016	C967K	1617	C990	2020	C1004OR	2055	C1026OR	2016	C1045E(2S)	2055
C943K	1617	C948R	2016	C967L	1617	C993(2S)	1617	C1004R	2055	C1026R	2016	C1045F	2055
C943L	1617	C948X	2016	C967M	1617	C993D	1617	C1004X	2055	C1026X	2016	C1045G	2055
C943M	1617	C948Y	2016	C967OR	1617	C993E	1617	C1004Y	2055	C1026Y(2S)	2016	C1045GN	2055
C943OR	1617	C949	2016	C967R	1617	C994	2009	C1005	2055	C1030(TRANS)	2041	C1045H	2055
C943R	1617	C950	1617	C967X	1617	C997(2S)	2058	C1005(2S)	2055	C1030-OR	2041	C1045J	2055
C943X	1617	C951	2009	C967Y	1617	C997A	2058	C1005A	2055	C1030A(TRANS)	2041	C1045K	2055
C943Y	1617	C952	2009	C968(2S)	2009	C997B	2058	C1005A(2S)	2055	C1030B(TRANS)	2041	C1045L	2055
C944(2S)	2009	C953	1617	C968A	2009	C997C	2058	C1005B	2055	C1030B2C	2041	C1045M	2055
C944S	2009	C954	1617	C968B	2009	C997D	2058	C1005C	2055	C1030C(2S)	2041	C1045OR	2055
C945	2009	C955	1617	C968C	2009	C997E	2058	C1005D	2055	C1030D(2S)	2041	C1045R(2S)	2055
C945(JAPAN)	2009	C956	1617	C968D	2009	C997F	2058	C1005E	2055	C1030E	2041	C1045X	2055
C945-0	2009	C957(2S)	2016	C968E	2009	C997G	2058	C1005F	2055	C1030F	2041	C1045Y	2055
C945-Q(2S)	2009	C957A	2016	C968F	2009	C997GN	2058	C1005G	2055	C1030G	2041	C1046	2055
C945-OR	2009	C957AL	2016	C968G	2009	C997H	2058	C1005GN	2055	C1030H	2041	C1046(2S)	2055
C945-YX	2009	C957B	2016	C968GN	2009	C997J	2058	C1005H	2055	C1030J	2041	C1046-OR	2055
C945A(2S)	2009	C957C	2016	C968H	2009	C997K	2058	C1005J	2055	C1030K	2041	C1046A(TRANS)	2055
C945AK	2009	C957D	2016	C968J	2009	C997L	2058	C1005K	2055	C1030L	2041	C1046B(TRANS)	2055
C945AP(2S)	2009	C957E	2016	C968K	2009	C997M	2058	C1005L	2055	C1030M	2041	C1046C	2055
C945AQ(2S)	2009	C957F	2016	C968L	2009	C997OR	2058	C1005M	2055	C1030OR	2041	C1046D	2055
C945AR	2009	C957G	2016	C968M	2009	C997R	2058	C1005OR	2055	C1030P	2041	C1046E	2055
C945B(2S)	2009	C957GN	2016	C968OR	2009	C997X	2058	C1005R	2055	C1030R	2041	C1046F	2055
C945C(2S)	2009	C957H	2016	C968P(2S)	2009	C997Y	2058	C1005X	2055	C1030X	2041	C1046G	2055
C945D(2S)	2009	C957J	2016	C968R	2009	C999(2S)	2055	C1005Y	2055	C1030Y	2041	C1046GN	2055
C945E(2S)	2009	C957K	2016	C968X	2009	C999A	2055	C1006(2S)	2016	C1032	2016	C1046H	2055
C945F(2S)	2009	C957L	2016	C968Y	2009	C999B	2055	C1006A	2016	C1032(TRANS)	2016	C1046J	2055
C945G(2S)	2009	C957M	2016	C969	1617	C999C	2055	C1006A(2S)	2016	C1032A(TRANS)	2016	C1046K	2055
C945GN	2009	C957OR	2016	C970	1617	C999D	2055	C1006B(2S)	2016	C1032B(TRANS)	2016	C1046L	2055
C945H(2S)	2009	C957R	2016	C972(2S)	2030	C999E	2055	C1006C(2S)	2016	C1032BL	2016	C1046M	2055
C945J	2009	C957X	2016	C972A	2030	C999F	2055	C1007(2S)	1617	C1032C	2016	C1046N	2055
C945K(2S)	2009	C957XL	2016	C972B	2030	C999G	2055	C1008(2S)	2030	C1032D	2016	C1046OR	2055
C945L(2S)	2009	C957Y	2016	C972C(2S)	2030	C999GN	2055	C1008A	2030	C1032E	2016	C1046R	2055
C945LP	2009	C959(2S)	2030	C972D(2S)	2030	C999H	2055	C1008Y(KOREA)	2009	C1032F	2016	C1046X	2055
C945LP(JAPAN)	2009	C959A(2S)	2030	C972E(2S)	2030	C999J	2055	C1009	2058	C1032G(2S)	2016	C1046Y	2055
C945LQ	2009	C959B(2S)	2030	C972F	2030	C999K	2055	C1009A	2058	C1032GN	2016	C1047(2S)	2016
C945M(2S)	2009	C959C(2S)	2030	C972G	2030	C999L	2055	C1009F1	2058	C1032H	2016	C1047A	2016
C945OR	2009	C959D(2S)	2030	C972GN	2030	C999M	2055	C1009F2	2058	C1032J	2016	C1047B(2S)	2016
C945P(2S)	2009	C959E	2030	C972H	2030	C999OR	2055	C1009F3	2058	C1032K	2016	C1047BC	2016
C945P(JAPAN)	2009	C959F	2030	C972J	2030	C999R	2055	C1009F4	2058	C1032L	2016	C1047BCD	2016
C945P1	2009	C959G	2030	C972K	2030	C999X	2055	C1009F5	2058	C1032M	2016	C1047C(2S)	2016
C945PJ	2009	C959GN	2030	C972L	2030	C999Y	2055	C1010	2016	C1032OR	2016	C1047D(2S)	2016
C945PQ	2009	C959H	2030	C972M	2030	C1000	2016	C1010(TRANS)	2016	C1032R	2016	C1047E(2S)	2016
C945Q(2S)	2009	C959J	2030	C972OR	2030	C1000(2S)	2016	C1010A	2016	C1032X	2016	C1047F	2016
C945Q(JAPAN)	2009	C959K	2030	C972R	2030	C1000-BL(2S)	2016	C1010A(TRANS)	2016	C1032Y(2S)	2016	C1047G	2016
C945QL(2S)	2009	C959L	2030	C972X	2030	C1000-GR(2S)	2016	C1010B	2016	C1035	2016	C1047GN	2016
C945QP(2S)	2009	C959M(2S)	2030	C972Y	2030	C1000-Y(2S)	2016	C1010B(TRANS)	2016	C1035(TRANS)	2016	C1047GR	2016
C945R(2S)	2009	C959OR	2030	C976	2030	C1000A	2016	C1010C(2S)	2016	C1035A(TRANS)	2016	C1047H	2016
C945RA	2009	C959R	2030	C976TV	2030	C1000B	2016	C1019C	2020	C1035B(TRANS)	2016	C1047J	2016
C945S(2S)	2009	C959S(2S)	2030	C979	1617	C1000BL	2016	C1023	2016	C1035C(2S)	2016	C1047K	2016
C945T(2S)	2009	C959SA(2S)	2030	C979-O	1617	C1000C	2016	C1023-O(2S)	2016	C1035D(2S)	2016	C1047L	2016
C945TK	2009	C959SB(2S)	2030	C979-R	1617	C1000D	2016	C1023-Y(2S)	2016	C1035E(2S)	2016	C1047M	2016
C945TP	2009	C959SC(2S)	2030	C979-Y	1617	C1000E	2016	C1023A	2016	C1035F	2016	C1047R	2016
C945TQ(2S)	2009	C959SD(2S)	2030	C979A	1617	C1000F	2016	C1023B	2016	C1035GN	2016	C1047X	2016
C945X(2S)	2009	C959X	2030	C979A-O	1617	C1000G	2016	C1023C	2016	C1035H	2016	C1047Y	2016
C945Y	2009	C959Y	2030	C979A-R	1617	C1000G-BL	2016	C1023D	2016	C1035J	2016	C1051(2S)	2041
C945Y(KOREA)	2009	C963	1617	C980	2009	C1000GBL	2016	C1023E	2016	C1035L	2016	C1051L	2041
C947(2S)	2016	C964	1617	C980AG	2009	C1000G-GR	2016	C1023F	2016	C1035M	2016	C1052	2030
C947A	2016	C965	1617	C980AG-O	2009	C1000GN	2016	C1023G(2S)	2016	C1035OR	2016	C1053	2030
C947B	2016	C966(2S)	1617	C980AG-R	2009	C1000GR	2016	C1023GN	2016	C1035R	2009	C1054	2030
C947C	2016	C966A	1617	C980G	2009	C1000H	2016	C1023H	2016	C1035X	2009	C1060	2020
C947D	2016	C966B	1617	C980G-O	2009	C1000J	2016	C1023J	2016	C1035Y	2016	C1060(2S)	2020
C947E	2016	C966C	1617	C980G-R	2009	C1000K	2016	C1023K	2016	C1036	2016	C1060A	2020
C947F	2016	C966D	1617	C980G-Y	2009	C1000L	2016	C1023L	2016	C1036(TRANS)	2016	C1060A(2S)	2020
C947G	2016	C966E	1617	C984(2S)	2009	C1000M	2016	C1023M	2016	C1036A(TRANS)	2016	C1060B	2020
C947GN	2016	C966F	1617	C984A(2S)	2009	C1000OR	2016	C1023OR	2016	C1036B(TRANS)	2016	C1060B(2S)	2020
C947H	2016	C966G	1617	C984B(2S)	2009	C1000R	2016	C1023R	2016	C1036C	2016	C1060BL	2020
C947J	2016	C966GN	1617	C984C(2S)	2009	C1000X	2016	C1023X	2016	C1036D	2016	C1060BM(2S)	2020
C947K	2016	C966H	1617	C984D	2009	C1000Y(2S)	2016	C1023Y	2016	C1036E	2016	C1060BY	2020
C947L	2016	C966J	1617	C984E	2009	C1002	2016	C1026	2016	C1036F	2016	C1060C(2S)	2020
C947M	2016	C966K	1617	C984F	2009	C1003	2009	C1026(TRANS)	2016	C1036G	2016	C1060D(2S)	2020
C947OR	2016	C966L	1617	C984G	2009	C1004	2055	C1026-O	2016	C1036GN	2016	C1060E	2020
C947R	2016	C966M	1617	C984GN	2009	C1004(2S)	2055	C1026-R	2016	C1036H	2016	C1060F	2020
C947X	2016	C966OR	1617	C984H	2009	C1004(TRANS)	2055	C1026A(TRANS)	2016	C1036J	2016	C1060G	2020
C947Y	2016	C966R	1617	C984J	2009	C1004A(2S)	2055	C1026B(TRANS)	2016	C1036K	2016	C1060GN	2020
C948(2S)	2016	C966X	1617	C984L	2009	C1004A(TRANS)	2055	C1026BL	2016	C1036L	2016	C1060H	2020
C948A	2016	C966Y	1617	C984M	2009	C1004B	2055	C1026C	2016	C1036M	2016	C1060J	2020
C948B	2016	C967(2S)	1617	C984OR	2009	C1004C	2055	C1026D	2016	C1036OR	2016	C1060K	2020
C948D	2016	C967A	1617	C984R	2009	C1004D	2055	C1026E	2016	C1036R	2016	C1060L	2020
C948E	2016	C967B	1617	C984X	2009	C1004E	2055	C1026F	2016	C1036X	2016	C1060M	2020
C948F	2016	C967C	1617	C984Y	2009	C1004F	2055	C1026G(2S)	2016	C1036Y	2016	C1060OR	2020
C948G	2016	C967D	1617	C985	2016	C1004G	2055	C1026GN	2016	C1044(2S)	2016	C1060R	2020
C948GN	2016	C967E	1617	C985A	2016	C1004GN	2055	C1026GR	2016	C1045	2055	C1060X	2020
C948H	2016	C967F	1617	C985	2016	C1004H	2055	C1026H	2016	C1045(2S)	2055	C1060Y	2020

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C1061	2020	C1107R	2055	C1180	2038	C1175CV	2009	C1215R	2016	C1317A	2009	C1230	2016
C1061(2S)	2020	C1107X	2055	C1180(TRANS)	2038	C1175E(2S)	2009	C1215X	2016	C1317BC	2009	C1230N	2016
C1061Z	2020	C1107Y	2055	C1181	2038	C1175E(2S)	2009	C1217	2016	C1317C	2009	C1231	2016
C1061A	2020	C1107Z	2055	C1181(TRANS)	2038	C1175F(2S)	2009	C1218	2016	C1317E	2009	C1231J	2016
C1061A(TRANS)	2020	C1107Q(2S)	2055	C1151A	2055	C1160	2016	C1218(2S)	2016	C1317G	2009	C1231K	2016
C1061B	2020	C1107YG	2020	C1151A(TRANS)	2055	C1182	2016	C1219	2009	C1317GR	2009	C1335L	2016
C1061B(TRANS)	2020	C1108	2020	C1153(2S)	2055	C1182B(2S)	2016	C1220	2009	C1317L	2009	C1335M	2016
C1061BM	2020	C1109	2020	C1153A	2055	C1182C(2S)	2016	C1220(TRANS)	2009	C1317NC	2009	C1335OR	2016
C1061C(2S)	2020	C1109(TRANS)	2020	C1166	2009	C1182D(2S)	2016	C1220-003	2009	C1317OR	2009	C1335R	2016
C1061D(2S)	2020	C1110	2020	C1166(TRANS)	2009	C1184(2S)	2055	C1220A(TRANS)	2009	C1317Q(2S)	2009	C1335X	2016
C1061E	2020	C1110(2S)	2020	C1166-GR	2009	C1184A(2S)	2055	C1220AP	2009	C1317R(2S)	2009	C1335Y	2016
C1061KA	2020	C1111	2016	C1166-O	2009	C1184B(2S)	2055	C1220AQ	2009	C1317S(2S)	2009	C1336(TRANS)	2016
C1061K	2020	C1111A	2016	C1166-R	2009	C1184C(2S)	2055	C1220AR	2009	C1317T(2S)	2009	C1336JK	2016
C1061K(2S)	2020	C1111B	2016	C1166-Y	2009	C1184D(2S)	2055	C1220CR(2S)	2009	C1317V	2009	C1342(2S)	2016
C1061K(2S)	2020	C1111C	2016	C1166A(TRANS)	2009	C1184E(2S)	2055	C1220P	2009	C1317Y	2009	C1342-OR	2016
C1061T(2S)	2020	C1117D	2016	C1166B(TRANS)	2009	C1187(2S)	2058	C1220Q	2009	C1317Z(2S)	2009	C1342A(2S)	2016
C1061T(2S)	2020	C1117E	2016	C1166C	2009	C1187R(KOREA)	2058	C1220R	2009	C1317Z(2S)	2009	C1342B(2S)	2016
C1066	2016	C1117F	2016	C1166E	2009	C1188	2058	C1222	2016	C1318C(2S)	2009	C1342C(2S)	2016
C1067	2016	C1117G	2016	C1166F	2009	C1189	2058	C1222(TRANS)	2016	C1318E	2009	C1342D	2016
C1069	2020	C1117GN	2016	C1166G	2009	C1189L	2058	C1222A	2016	C1318F	2009	C1342E	2016
C1070(2S)	2016	C1117H	2016	C1166H	2009	C1204(2S)	2009	C1222A(TRANS)	2016	C1318G	2009	C1342F	2016
C1070-1	2016	C1117I	2016	C1166H	2009	C1204B(2S)	2009	C1222B	2016	C1318GN	2009	C1342G	2016
C1070-2	2016	C1117J	2016	C1166K	2009	C1204C(2S)	2009	C1222B(TRANS)	2016	C1318H	2009	C1342GN	2016
C1070-3	2016	C1117K	2016	C1166L	2009	C1204D(2S)	2009	C1222C(2S)	2016	C1318J	2009	C1342J	2016
C1070-4	2016	C1117L	2016	C1166M	2009	C1204E(2S)	2009	C1222D(2S)	2016	C1318K	2009	C1342K	2016
C1070-5	2016	C1117M	2016	C1166N	2009	C1204F(2S)	2009	C1222E	2016	C1318L	2009	C1342L	2016
C1072(2S)	2030	C1117N	2016	C1166O(2S)	2009	C1205A(2S)	2009	C1222F	2016	C1318M	2009	C1342M	2016
C1072A(2S)	2030	C1117R	2016	C1166OR	2009	C1205B(2S)	2009	C1222H	2016	C1318N	2009	C1342N	2016
C1079(2S)	2041	C1117X	2016	C1166P	2009	C1205C(2S)	2009	C1222I	2016	C1318P	2009	C1342OR	2016
C1079-R	2041	C1117Y	2016	C1166Y(2S)	2009	C1206	2030	C1236	2058	C1318PR	2009	C1342R	2016
C1079-Y	2041	C1123(2S)	2009	C1167(2S)	2009	C1206B	2030	C1240	2058	C1318Q(2S)	2009	C1342X	2016
C1080(2S)	2041	C123A	2009	C1170(2S)	2055	C1207(2S)	2009	C1244(2S)	2009	C1318Q(2S)	2009	C1342Y	2016
C1080-2	2041	C123B	2009	C1170-OR	2055	C1207C(2S)	2009	C1246	2009	C1318R	2009	C1343(2S)	2016
C1080-Y	2041	C123C	2009	C1170A(2S)	2055	C1207D(2S)	2009	C1246A	2009	C1318S(2S)	2009	C1343-2S	2016
C1080S	2041	C123D	2009	C1170B(2S)	2055	C1207E(2S)	2009	C1246B	2009	C1318T(2S)	2009	C1343B(2S)	2016
C1080S(2S)	2041	C123E	2009	C1170FA-2	2055	C1207F(2S)	2009	C1246S	2009	C1318V	2009	C1343L	2016
C1084	2058	C1123F	2009	C1170C	2055	C1210Y	2009	C1246T	2009	C1319C	2016	C1343D	2041
C1091A	2017	C1123GN	2009	C1170D	2055	C1211(2S)	2009	C1247	2009	C1320	2058	C1343E	2041
C1091A(2S)	2017	C1123H	2009	C1170E	2055	C1211(2S)	2009	C1247A	2009	C1320A	2058	C1343F	2041
C1091A(4R)	2017	C1123J	2009	C1170F	2055	C1213-OR	2009	C1247AF	2009	C1320B	2058	C1343G	2041
C1091A(4L)	2017	C1123K	2009	C1170FA-2	2055	C1213A(2S)	2009	C1254	2016	C1320C	2058	C1343GN	2041
E1091-4K	2017	C1123L	2009	C1170G	2055	C1213A(JAPAN)	2009	C1256	2009	C1320D	2058	C1343G-2	2041
C1091-4L	2017	C1123M	2009	C1170GH	2055	C1213AA(2S)	2009	C1274	2016	C1320E	2058	C1343GR	2041
C1091-4M	2017	C1123OF	2009	C1170M	2055	C1213AB(2S)	2009	C127A	2016	C1320F	2058	C1343H(2S)	2041
C1091A(2S)	2017	C1123P	2009	C1170J	2055	C1213AC(2S)	2009	C1281	2009	C1320G	2058	C1343J	2041
C1091A(2S)	2017	C1123Q	2009	C1170K	2055	C1213AD(2S)	2009	C1283	2009	C1320GN	2058	C1343K	2041
C1091C(2S)	2017	C1123Y	2009	C1170L	2055	C1213AK(2S)	2009	C1285	2009	C1320H	2058	C1343L	2041
C1091D(2S)	2017	C1126(2S)	2058	C1170M	2055	C1213AKB(2S)	2009	C1293	2016	C1320J	2058	C1343M	2041
C1091E(2S)	2017	C1126A	2058	C1170OR	2055	C1213AKC(2S)	2009	C1293A	2016	C1320K	2058	C1343O	2041
C1091M(2S)	2017	C1126B	2058	C1170R	2055	C1213AKD(2S)	2009	C1293B(2S)	2016	C1320L	2058	C1343OR	2041
C1099	2055	C1126E	2058	C1170X	2055	C1213B(2S)	2009	C1293C	2016	C1320M	2058	C1343R	2041
C1099K	2055	C1126F	2058	C1170Y	2055	C1213BC(2S)	2009	C1293D	2016	C1320OR	2058	C1343X	2041
C1100(TRANS)	2055	C1126GH	2058	C1171(2S)	2055	C1213C(2S)	2009	C1293E	2016	C1320P	2058	C1343Y	2041
C1100A(TRANS)	2055	C1126H	2058	C1171(2S)	2055	C1213C(JAPAN)	2009	C1295-2	2016	C1320R	2058	C1344(2S)	2016
C1100B(TRANS)	2055	C1126I	2058	C1172A(2S)	2055	C1213C(2S)	2009	C1295-C(2S)	2016	C1320S	2058	C1344C(2S)	2016
C1100C	2055	C1126L	2058	C1172B(2S)	2055	C1213D(2S)	2009	C1296	2016	C1320T	2058	C1344D(2S)	2016
C1100D	2055	C1126M	2058	C1172C	2055	C1213D-24	2009	C1300	2055	C1321Q2	2016	C1344E(2S)	2016
C1100E	2055	C1126R	2058	C1172D	2055	C1213E	2009	C1300(2S)	2055	C1321Q3	2016	C1344F(2S)	2016
C1100F	2055	C1126S	2058	C1172E	2055	C1213F	2009	C1300K(2S)	2055	C1321Q4	2016	C1345(2S)	2016
C1100G	2055	C1126X	2058	C1172F	2055	C1213G	2009	C1308L	2055	C1321Q5	2016	C1345C(2S)	2016
C1100GN	2055	C1126Y	2058	C1172G	2055	C1213GN	2009	C1308N	2055	C1322	2041	C1345D	2016
C1100H	2055	C1126Z	2058	C1172H	2055	C1213H	2009	C1309(2S)	2055	C1322(2S)	2016	C1345E	2016
C1100I	2055	C1126A	2058	C1172I	2055	C1213J	2009	C1310	2009	C1322A(2S)	2016	C1345F(2S)	2016
C1100K	2055	C1126B	2058	C1172J	2055	C1213K	2009	C1311	2009	C1322AK	2016	C1345G	2016
C1100L	2055	C1126C	2058	C1172K	2055	C1213L	2009	C1311(2S)	2016	C1322AL	2016	C1345H	2016
C1100M	2055	C1126D	2058	C1172L	2055	C1213M	2009	C1312A	2016	C1322A(2S)	2016	C1345K	2016
C1100OF	2055	C1126E	2058	C1172M	2055	C1213OR	2009	C1312BC	2016	C1322F(2S)	2016	C1352	2009
C1100R	2055	C1126D(2S)	2058	C1172R	2055	C1213Q	2009	C1322R	2016	C1327	2016	C1358(2S)	2055
C1100X	2055	C1126G	2058	C1172X	2055	C1213X	2009	C1312D	2016	C1327S	2016	C1358A	2055
C1100Y	2055	C1126H	2058	C1172Y	2055	C1213Y	2009	C1312E	2016	C1327T	2016	C1358K(2S)	2055
C1101	2055	C1126M	2058	C1173(2S)	2058	C1214(2S)	2009	C1312F(2S)	2016	C1327TU	2016	C1358K1	2055
C1101(TRANS)	2055	C1126N	2058	C1173-0(2S)	2058	C1214A(2S)	2009	C1312G(2S)	2016	C1327TV	2016	C1358K2	2055
C1101A	2055	C1126S	2058	C1173-5	2058	C1214B(2S)	2009	C1312H(2S)	2016	C1327U(2S)	2016	C1358K3	2055
C1101A(TRANS)	2055	C1126T	2058	C1173-C	2058	C1214C(2S)	2009	C1312I(2S)	2016	C1327V(2S)	2016	C1358L	2055
C1101B	2055	C1126U(2S)	2058	C1173-OR(2S)	2058	C1214D(2S)	2009	C1312J	2016	C1327W(2S)	2016	C1358M	2055
C1101B(TRANS)	2055	C1126V(2S)	2058	C1173-C(2S)	2058	C1214E(2S)	2009	C1312K	2016	C1327X(2S)	2016	C1358N(2S)	2055
C1101C(2S)	2055	C1129A	2058	C1173-R(2S)	2020	C1215C	2016	C1312L	2016	C1331(TRANS)	2016	C1359A(2S)	2009
C1101D(2S)	2055	C1129B	2058	C1173-Y(2S)	2020	C1215D	2016	C1312M	2016	C1335	2009	C1359B(2S)	2009
C1101E(2S)	2055	C1129BL	2058	C1173A	2020	C1215E	2016	C1312OR	2016	C1335(TRANS)	2016	C1359C	2009
C1101F(2S)	2055	C1129C	2058	C1173B	2020	C1215F	2016	C1312R	2016	C1335-OR	2016	C1359C(2S)	2009
C1101G	2055	C1129G	2058	C1173GR	2020	C1215G	2016	C1312X	2016	C1335A	2016	C1359Q	2009
C1101GN	2055	C1129H	2058	C1173R(2S)	2020	C1215GN	2016	C1312Y(2S)	2016	C1335A(TRANS)	2016	C1359R(2S)	2009
C1101H	2055	C1129I	2058	C1173S(2S)	2020	C1215H	2016	C1312Z	2016	C1335B	2016	C1359S	2016
C1101I	2055	C1129J	2058	C1173T	2020	C1215I	2016	C1313	2016	C1335B(TRANS)	2016	C1359T(2S)	2009
C1101K	2055	C1130	2058	C1173X	2020	C1215J	2016	C1313(2S)	2016	C1335C(

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C1364-6	2009	C1419-C	2020	C1637	2016	C1730K	2016	C1827	2020	C2001A	2009	C2309D	2016
C1364-8	2009	C1419B(2S)	2020	C1639(2S)	1617	C1730L	2016	C1833	2009	C2001F	2009	C2309E	2016
C1364-OR	2009	C1419C(2S)	2020	C1641	1617	C1734	1617	C1834	2009	C2001G	2009	C2309F	2016
C1364A(2S)	2009	C1427	2058	C1641Q	1617	C1734H	1617	C1840	2016	C2001H	2009	C2310	2009
C1364B	2009	C1428	2016	C1641R	1617	C1735	2009	C1840E	2016	C2001J	2009	C2315	2020
C1364C	2009	C1438	2009	C1647	2016	C1739(2S)	1617	C1840F	2016	C2001K(JAPAN)	2009	C2320	2009
C1364D	2009	C1439	2009	C1647Q	2016	C1740	2009	C1840P	2016	C2001L	2009	C2320(JAPAN)	2009
C1364E	2009	C1444	2020	C1647RY	2016	C1740C	2009	C1842	2016	C2001L1	2009	C2320L	2009
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C1364K	2009	C1453	2016	C1648E	2016	C1740E(JAPAN)	2009	C1843	2016	C2002	2009	C2348	2058
C1364L	2009	C1466	2055	C1648EF	2016	C1740L	2009	C1844	2016	C2002K	2009	C2349	2016
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C1364OR	2009	C1478	2058	C1652	2009	C1740Q	2009	C1850	2009	C2002L(JAPAN)	2009	C2352	2058
C1364R	2009	C1478A	2058	C1667(2S)	2041	C1740QH	2009	C1851	2009	C2002M	2009	C2362	2016
C1364X	2009	C1537(2S)	2016	C1674(2S)	2016	C1740QJ	2009	C1852	2009	C2003	2009	C2362G	2016
C1364Y	2009	C1537-0	2016	C1674AL	2016	C1740QR	2009	C1853	2009	C2009	2058	C2362H	2016
C1367(2S)	2035	C1537-O	2016	C1674K(2S)	2016	C1740R	2009	C1853B	2009	C2012	2016	C2362K	2016
C1367A(2S)	2035	C1537B(2S)	2016	C1674L(2S)	2016	C1740R(JAPAN)	2009	C1853C	2009	C2021	2016	C2363	2009
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C1372Y(2S)	2009	C1538S(2S)	2016	C1674M(2S)	2016	C1740RH	2009	C1854C	2009	C2021L	2016	C2377C	2016
C1373	2016	C1538SA(2S)	2016	C1674R(KOREA)	2016	C1740RL	2009	C1854R	2009	C2021Q	2016	C2377D	2016
C1374	2016	C1539	2009	C1675(2S)	2009	C1740RM	2009	C1854S	2009	C2021Q(JAPAN)	2016	C2385	2016
C1374H	2016	C1540	2009	C1675B	2009	C1740RN(JAPAN)	2009	C1855	2058	C2021R	2016	C2398	2041
C1375	2016	C1541	2009	C1675K(2S)	2009	C1740RS	2009	C1856	2058	C2021R(JAPAN)	2016	C2406	1104
C1375H	2016	C1542(2S)	2016	C1675K(JAPAN)	2009	C1740S	2009	C1856-02	2058	C2021RJ	2016	C2406M	1104
C1376	2009	C1543	2058	C1675L(2S)	2009	C1740S(JAPAN)	2009	C1856M	2058	C2021RL(JAPAN)	2016	C2458	2009
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C1380-BL	1617	C1553	2016	C1681-BL	2016	C1746A	2009	C1875K	2055	C2021S(JAPAN)	2016	C2458GR	2009
C1380-GR	1617	C1570	2016	C1681-GR	2016	C1766	2009	C1875L	2055	C2021Y	2016	C2458Y	2009
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C1390JX	2009	C1607	2009	C1681H	2016	C1780	2030	C1906	2016	C2057F	2058	C2550	1617
C1390W(2S)	2009	C1621	2016	C1681J	2016	C1781	1617	C1906(JAPAN)	2016	C2063	2009	C2561	2016
C1390WH(2S)	2009	C1621-0	2016	C1681K	2016	C1781H	1617	C1907	2016	C2063P	2009	C2570	2016
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C1413X	2055	C1626Y	2020	C1685S(2S)	2009	C1815Y	2009	C1990B	2016	C2213	2016	C2719(JAPAN)	2009
C1413Y	2055	C1627	2009	C1685T	2009	C1815Y(JAPAN)	2009	C1991	2009	C2215	2058	C2719L(JAPAN)	2009
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C1417(2S)	2016	C1627-Y	2009	C1686V	2058	C1826	2020	C1994	1617	C2261	2041	C2724-D	2009
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C1417F(2S)	2016	C1627Y	2009	C1707AHB	1617	C1826D	2020	C1998	2009	C2274E(JAPAN)	2009	C2785E	2009
C1417Y(2S)	2016	C1627Y(JAPAN)	2009	C1707H	1617	C1826G	2020	C1999	2016	C2274K	2009	C2785F	2009
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C1418(2S)	2020	C1635	2030	C1709	2009	C1826R	2020	C2001	2009	C2308B	2009	C2785K	2009
C1419(2S)	2020	C1636	2016	C1730	2016	C1826Y	2020	C2001-L	2009	C2309	2016	C2786	2009

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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C3800M	2058	C6114P	1772	CA102PA	1104	CC102HA	1104	CD37A	1122	CD4013BD	2413	CD86003	1122
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C3800P	1808	C6115A	562	CA102VA	1114	CC102MA	1104	CD62	561	CD4013BF	2413	CD860037	1122
C3800R	2058	C6118	563	CA124E	1711	CC102PA	1114	CD91	562	CD4013BMJ	2413	CD3122055	562
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C3940	2058	C6131P	1723	CA150	1104	CC152BA	1114	CD821	561	CD4017AE	2417	CD587	2030
C3940A	2058	C6391	1101	CA152AA	1114	CC152CA	1114	CD821A	561	CD4017AF	2417	CD731	2035
C3940B	2058	C6391A	1101	CA152BA	1114	CC152DA	1114	CD823	561	CD4017BCJ	2417	CD745	2030
C3940C	2058	C6644H(HEP)	2016	CA152CA	1114	CC152EA	1114	CD823A	561	CD4017BCN	2417	CD746	1617
C3940D	2058	C6690	2035	CA152DA	1114	CC152FA	1114	CD825	561	CD4017BD	2417	CD12019C	1617
C3940E	2058	C6691	2035	CA152EA	1114	CC152GA	1114	CD825A	561	CD4017BE	2417	CD2010	1617
C3940F	2058	C6692	2035	CA152FA	1114	CC152HA	1114	CD827	561	CD4017BF	2417	CD20100	1617
C3940G	2058	C7076	2016	CA152GA	1114	CC152KA	1114	CD827A	561	CD4017BMJ	2417	CD25102-G	1617
C3940GM	2058	C7406P	1801	CA152HA	1114	CC152MA	1114	CD829	561	CD4017BMW	2417	CD4203A130	1617
C3940H	2058	C7406P(HEP)	1801	CA152IA	1114	CC152PA	1114	CD829A	561	CD4049AD	2449	CD5080	2016
C3940I	2058	C7401P	1801	CA152JA	1114	CC152RA	1114	CD963B	563	CD4049AE	2449	CD5080-1B	2016
C3940J	2058	C7401P(HEP)	1801	CA152KA	1114	CC152TA	1114	CD965B	564	CD4049AF	2449	CD5080	2030
C3940L	2058	C7404P	1802	CA152RA	1114	CC152VA	1114	CD1111	1104	CD4049CJ	2449	CD5028A	2030
C3940M	2058	C7408P	1822	CA152TA	1114	CC1168F	1617	CD1112	1104	CD4049CN	2449	CD5038A	2016
C3940OR	2058	C7408P(HEP)	1822	CA152VA	1114	CC59018F	2009	CD1113	1104	CD4049MJ	2449	CD5071A	2016
C3940R	2058	C7447AP	1805	CA200	1104	CCJ5212	2009	CD1114	1104	CD4049UBD	2449	CD5075B	2016
C3940X	2058	C7490AP	1808	CA224E	1711	CCS1235G	1617	CD1115	1104	CD4049UBE	2449	CD8000	1617
C3940Y	2058	C7490P(HEP)	1808	CA220G	1711	CCS200TH	2009	CD1116	1104	CD4049UBF	2449	CD8000-1	2009
CA011	361	CA290	2009	CA239	1712	CCS2004B	2016	CD1117	1104	CD4066	2466	CD8000-1	2030
CA015	362	C9011E	2009	CA239A	1712	CCS2008B	2023	CD1121	1104	CD4066AD	2466	CD8000-1B	1617
CA018	363	C9011F	2009	CA239AE	1712	CCS-2004D	2009	CD1122	1104	CD4066AE	2466	CD8000-1C	2030
CA020	364	C9011H	2009	CA239AG	1712	CCS2006D	2016	CD1123	1104	CD4066AF	2466	CD8000-CM	2030
CA033A	2030	C9011A	2009	CA239E	1712	CCS2008F015	2016	CD1124	1104	CD4066B	2466	CD8000	1617
CA033B	2030	C9014A(KOREA)	2009	CA239G	1712	CCS4004	1617	CD1125	1104	CD4066BCJ	2466	CD8000	2030

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CDC8002-1	2030	CDQ10052	2030	CER500B	1104	CGD1029	1123	CIL532	2016	CO49	1104	CR/E	1104
CDC8011B	1617	CDQ10053	2030	CER500C	1104	CGE-60	2009	CIL533	2016	CO410V	1114	CR0000	1123
CDC8021	1617	CDQ10057	2030	CER670	1104	CGE-61	2009	CJ5201	1617	CO510	1114	CR02AM	1067
CDC8054	1617	CDQ10058	2030	CER670A	1104	CGE-62	2016	CJ5202	1617	CO-14348	1770	CR02AM-1	1067
CDC8201	2009	CDR-2	1104	CER670B	1104	CGE-66	2020	CJ5203	1617	COD1-6045	1104	CR02AM1	1067
CDC8457	1122	CDR-4	1104	CER670C	1104	CGE-69	2027	CJ-5206	1617	COD1-6046	1104	CR02AM-4	1067
CDC9000-1	2023	CDS-16B	1104	CER680	1104	CGE-500	1122	CJ5206	2009	COD1-6047	1104	CR02AM4	1067
CDC9000-1D	2023	CDZ-9V	562	CER680A	1104	CH119D	1104	CJ-5207	1104	COD1-6048	1104	CR02AN4	1067
CDC9002-1C	2030	CDZ-C9V	562	CER680B	1104	CH302MA	1114	CJ5207	2009	COD1531	1104	CR1-051C	1067
CDC9002-1B	2030	CE0398/7839	1104	CER680C	1104	CH302PA	1114	CJ-5208	1617	COD1532	1104	CR1-051CA	1067
CDC10000-1E	2023	CE0398-7839	1144	CER690	1104	CH202RA	1114	CJ-5210	2030	COD1533	1104	CR1-051CB	1067
CDC12000	2009	CE0495/7839	1123	CER690A	1104	CH753	561	CJ5210	2030	COD1534	1104	CR1-101C	1067
CDC12000-1C	1617	CE37	1122	CER690B	1104	CH757	562	CJ-5211	2009	COD1535	1104	CR1-101CA	1067
CDC12018C	1617	CE401	1104	CER690C	1104	CH759	563	CJ5211	1617	COD1536	1104	CR1-201C	1067
CDC12030B	2016	CE402	1104	CER700	1104	CH821	561	CJ-5212	2009	COD1537	1114	CR1-201CA	1067
CDC12077F	1617	CE403	1104	CER700A	1104	CH823	561	CJ5212	1617	COD1538	1114	CR3AMZ	1020
CDC12108	2009	CE404	1104	CER700B	1104	CH825	561	CJ5213	2030	COD1551	1104	CR3AMZ-8	1020
CDC12112C	2016	CE405	1104	CER700C	1104	CH827	561	CJ5214	2030	COD1552	1104	CR3AMZ8	1020
CDC12112D	2016	CE406	1104	CER710	1104	CH829	561	CJ5215	2030	COD1553	1104	CR103A	1067
CDC12112E	2016	CE407	1114	CER710A	1104	CH963	563	CK419	1617	COD1554	1104	CR103B	1067
CDC12112F	2016	CE408	1114	CER710B	1104	CH965	564	CK420	1617	COD1555	1104	CR103C	1020
CDC13000	2009	CE409	1114	CER710C	1104	CH4103	562	CK421	1617	COD1556	1104	CR103D	1020
CDC-13000-1	1617	CE410	1114	CER720	1114	CH4106	563	CK422	1617	COD1575	1104	CR103Y	1067
CDC13000-1	2009	CE501	1104	CER720A	1114	CH4109	564	CK474	1617	COD1611	1104	CR103YY	1067
CDC13000-1B	1617	CE502	1104	CER720B	1114	CH4627	561	CK475	1617	COD1612	1104	CR203A	1067
CDC13000-1C	1617	CE503	1104	CER720C	1114	CH4735	561	CK476	1617	COD1613	1104	CR203B	1067
CDC13000-1D	2009	CE504	1104	CER730	1114	CH4739	562	CK477	1617	COD1614	1104	CR203C	1020
CDC13000-1B	1617	CE505	1104	CER730A	1114	CH4742	563	CK705	1123	COD1615	1104	CR203D	1020
CDC13000C	2009	CE506	1104	CER730B	1114	CH4744	564	CK-706	1123	COD1616	1104	CR203Y	1067
CDC13016A	1617	CE507	1114	CER730C	1114	CH5234	561	CK706	1123	COD1617	1114	CR203YY	1067
CDC13019B	2009	CE508	1114	CF-092	562	CH5239	562	CK706-P	1123	COD1618	1114	CR353	1122
CDC13500-1	1617	CE509	1114	CF102DA	1104	CH5242	563	CK706A	1123	COD1556	1104	CR801	1104
CDC15018	2009	CE510	1114	CF102PA	1114	CH5245	564	CK706P	1123	COD15524	1104	CR951	1114
CDC25100-6	1617	CE4001B	2009	CF102RA	1114	CHA4Z5.1	565	CK715	1123	COD15534	1104	CR952	1114
CDC25100-G	2016	CE4001C	2009	CF102VA	1114	CHAZ6.2	561	CK942	2023	COD15544	1104	CR953	1114
CDC60132	2009	CE4003D	2030	CF152AA	1114	HAZ6.2A	561	CL05	1104	COD15564	1104	CR954	1114
CDC120700	2030	CE4003E	2009	CF152BA	1114	HAZ62.A	561	CL010	1104	COD16047	1104	CR955	1114
CDC4306813	1617	CE4004C	2009	CF152DA	1114	CHMZ5.1	565	CL025	1104	COD1537	1114	CR956	563
CDG-00	1122	CE4005C	2023	CF152FA	1114	CI2711	1617	CL1	1104	COD1538	1114	CR1034	1104
CDG00	1122	CE4008B	2058	CF152HA	1114	CI2712	1617	CL1.5	1104	COD1617	1114	CR1035	1104
CDG005	1104	CE4008C	2058	CF152KA	1114	CI2713	1617	CL2	1104	COD1531	1104	CRD821	561
CDG025	1122	CE4008D	2058	CF152MA	1114	CI2714	1617	CL3	1104	COD16045	1104	CRD823	561
CDG-21	1122	CE4008E	2058	CF152PA	1114	CI2923	1617	CL4	1104	COD16047	1104	CRD825	561
CDG21	1122	CE4010D	2016	CF152RA	1114	CI2924	1617	CL5	1104	COD11556	1104	CRD827	561
CDG-22	1122	CE4010E	2016	CF152VA	1114	CI2925	1617	CL6	1104	COD15524	1104	CRD829	561
CDG22	1122	CE4012D	2023	CF-1295H	2030	CI2926	1617	CL7	1104	COD115534	1104	CRD921	561
CDG-24	1122	CE4013E	2009	CFA9.1D	562	CI3390	1617	CL8	1104	COD115544	1104	CRD923	561
CDG24	1122	CEC6050	1104	CFA9.1D5	562	CI3391	1617	CL166C	1617	COD115564	1104	CRD925	561
CDG24/3490	1122	CER68	1104	CFA9.1D10	562	CI3391A	1617	CL166C,D	2009	CP102	1114	CRD927	561
CDG27	1122	CER67	1104	CFA12D	563	CI3392	1617	CL166D	1617	CP102BA	1104	CS11C	1067
CDJ-00	1122	CER67A	1104	CFA12D5	563	CI3393	1617	CLEAK-05401	2068	CP102DA	1104	CS-16E	1104
CDK-4	1104	CER67B	1104	CFA12D10	563	CI3394	1617	CLEAK-06102	1251	CP102FA	1104	CS16E	1104
CDQ1018	2009	CER67C	1104	CFA15D	564	CI3395	1617	CLEAK-06201	1251	CP102HA	1104	CS360	1617
CDQ1021	2009	CER67F	1101	CFA15D5	564	CI3396	1617	CLEAK-12004	1251	CP102KA	1104	CS-460B	1617
CDQ1024	2009	CER68	1104	CFA15D10	564	CI3397	1617	CLEAK-12004,(2764)		CP102MA	1104	CS-461B	2016
CDQ10001	1617	CER68A	1104	CFB9.1D	562	CI3398	1617		1251	CP102PA	1114	CS696	1617
CDQ10002	1617	CER68B	1104	CFB9.1D5	562	CI3402	1617	CLM05	1104	CP102RA	1114	CS697	1617
CDQ10003	1617	CER68C	1104	CFB9.1D10	562	CI3403	1617	CLM1	1104	CP102VA	1114	CS706	1617
CDQ10004	1617	CER-69	1104	CFB12D	563	CI3404	1617	CLVA62A	561	CP103	1114	CS718	1617
CDQ10005	1617	CER69	1104	CFB12D5	563	CI3405	1617	CLVA91A	562	CP152AA	1114	CS718A	1617
CDQ10006	1617	CER69A	1104	CFB12D10	563	CI3414	2009	CM0770	2030	CP152BA	1114	CS720A	1617
CDQ10007	1617	CER69B	1104	CFB15D	564	CI3415	1617	CM4-284B	041	CP152CA	1114	CS-901ZHF	2023
CDQ10008	1617	CER69C	1104	CFB15D5	564	CI3416	1617	CM4-284B-2	041	CP152DA	1114	CS901ZHF	2023
CDQ10009	1617	CER70	1104	CFB15D10	564	CI3417	1617	CM-12	1122	CP152EA	1114	CS918	2016
CDQ10010	1617	CER70A	1104	CFC9.1D	562	CI3704	2030	CM4001	2401	CP152FA	1114	CS925M	1617
CDQ10011	2030	CER70B	1104	CFC9.1D5	562	CI3705	2030	CM4001AD	2401	CP152GA	1114	CS929	2016
CDQ10012	2030	CER70C	1104	CFC9.1D10	562	CI3706	2030	CM4001AE	2401	CP152HA	1114	CS930	2016
CDQ10014	2030	CER-71	1104	CFC12D	563	CI3900	1617	CM4009AE	2449	CP152KA	1114	CS956	2030
CDQ10016	1617	CER71	1104	CFC12D5	563	CI3900A	1617	CM4011	2411	CP152MA	1114	CS1014	2016
CDQ10017	1617	CER71A	1104	CFC12D10	563	CI3901	1617	CM4011AD	2411	CP152PA	1114	CS1014D	2016
CDQ10018	1617	CER71B	1104	CFC15D	564	CI256	1617	CM4011AE	2411	CP152RA	1114	CS1014E	2016
CDQ10019	1617	CER71C	1104	CFC15D5	564	CI4424	1617	CM4013	2413	CP152TA	1114	CS1014F	2016
CDQ10020	1617	CER-71CA	1104	CFC15D10	564	CI4425	1617	CM4013AD	2413	CP152VA	1114	CS1014G	2016
CDQ10021	1617	CER72	1114	CG1	1617	CIJ70645	1123	CM4013AE	2413	CP400	2041	CS1014H	2016
CDQ10022	1617	CER72A	1114	CG12-E	1123	CI1194	2058	CM4017	2417	CP401	2041	CS1018	2016
CDQ10023	1617	CER72B	1114	CG12E	1123	CI194A	2058	CM4017AD	2417	CP404	2041	CS1068	2009
CDQ10024	1617	CER72C	1114	CG61H	1123	CI194B	2058	CM4017AE	2417	CP405	2041	CS1120C	2016
CDQ10025	1617	CER72D	1114	CG62H	1123	CI195	2058	CM4049	2449	CP406	2041	CS-1120C1	2009
CDQ10026	1617	CER72F	1114	CG63H	1123	CI1511	2016	CM4049AD	2449	CP407	2041	CS-1120C2	2009
CDQ10027	1617	CER73	1114	CG64H	1123	CI1512	2016	CM4049AE	2449	CP408	2041	CS1120D	2016
CDQ10028	1617	CER73A	1114	CG65H	1123	CI1513	2016	CM4066AD	2466	CP409	2030	CS-1120D1	2009
CDQ10032	1617	CER73B	1114	CG66H	1123	CI1521	2016	CM4066AE	2466	CP701	2020	CS1120E	2016
CDQ10033	2030	CER73C	1114	CG74H	1123	CI1522	2016	CM7163	2009	CP702	2020	CS1120F	2016
CDQ10035	1617	CER73D	1114	CG86H	1123	CI1523	2016	CM8470	1104	CP704	2020	CS-1120H	2009
CDQ10036	1617	CER73F	1114	CGD462	1123	CI1531	2009	CMO770	2009	CP3212055	562	CS1120H	2016
CDQ10048	2030	CER500	1104	CGD591	1123	CI1531	2016	CM2484	2030	CQX21	036	CS-1120I	2009
CDQ10051	2030	CER500A	1104	CGD685	1123	CI1532	2009	CO6C	1104	CQY65	026	CS1120I	2009

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CS1121G	2023	CS1204G	2016	CS1409F	2030	CS384F	1617	CS-9014	2016	CT30-2A	1090	CTP-2001-1#10	1133
CS1139E	2030	CS1284H	2016	CS1613	2020	CS385A	1617	CS9014	1617	CT30-4A	1090	CTP-2001-1#11	1134
CS1166	1617	CS1286	2009	CS1661	2016	CS3854A	1617	CS9014(C)	2009	CT31	1121	CTP-2001-1#12	1134
CS1166D	2009	CS1288	1617	CS1664	2030	CS3859	1617	CS9014A	1617	CT31-1A	1090	CTP-2001-1#14	1135
CS1166D-G	2009	CS1209	1617	CS1665	1617	CS3860	1617	CS9014B	1617	CT31-2A	1090	CTP-2001-1#16	1135
CS1166E	1617	CS1293	2016	CS1702C	2009	CS3906	2023	CS9014B-C	2009	CT31-4A	1090	CTU20R	1104 N1
CS1166F	2009	CS1294E	2023	CS1711	2030	CS4003	1617	CS9014C	1617	CT32	1101	CTZ6.2	561
CS1166G	1617	CS1294H	2023	CS1834	2016	CS4005	2030	CS9014C/3490	1617	CT32-1A	1090	CTZ6.2A	561
CS1166H	1617	CS1295E	1617	CS1893	2030	CS4006	2030	CS9014D	2023	CT32-2A	1000	CTZ9.1A	562
CS1166H/F	1617	CS1295G	1617	CS1990	2030	CS4007	1617	CS9014G	2009	CT32-4A	1090	CTZ12	563
CS1168E	2016	CS1295H	2030	CS2001	1617	CS4012	1617	CS9015	2023	CT33	1102	CTZ12A	563
CS1168F	1617	CS1303	2023	CS2001H	2009	CS4013	2023	CS9015B	2023	CT33-1A	1090	CTZ15	564
CS1168G	2009	CS-1305	2009	CS2004	1617	CS4021	1617	CS9015C	2023	CT33-2A	1090	CTZ15A	564
CS1168H	1617	CS1305	2030	CS-2004C	2016	CS4040	2016	CS9015C2	2023	CT33-4A	1090	CTZ-12E	1067
CS1170F	2023	CS1308	2023	CS2004C	2009	CS4061	1617	CS9015D	2023	CT34	1102	CV12E	1020
CS1221F	2023	CS-1330	2009	CS2004D	1617	CS4062	1617	CS-9016	2058	CT36	1122	CV425	1123
CS1225D	2016	CS1330	2016	CS-2005B	2023	CS4193	2023	CS9016	2058	CT38	1104	CV442	1123
CS1225E	2016	CS1330A	2016	CS-2005C	2023	CS4194	1617	CS9016(G)	2009	CT39	1102	CV448	1123
CS1225F	2016	CS1330B	2016	CS2006	1617	CS-6168F	2009	CS-9016D	2058	CT100	1104	CX-0031	1123
CS1225H	2030	CS1330C	2016	CS2006G	2016	CS6168F	1617	CS9016D	2058	CT156	1122	CX-0033	1123
CS1226	2016	CS1330D	2009	CS-2007G	2016	CS-6168G	1617	CS9016E	2058	CT157	1104	CX-0035	1104
CS1226E	2016	CS1340C	2016	CS2007G	2009	CS6169G	2030	CS9016F	2058	CT158	1102	CX-0036	1123
CS1226F	2016	CS1340E	2016	CS-2007H	2016	CS-6168H	1617	CS9016F	2058	CT159	1102	CX-0036	1123
CS1226G	2016	CS1340F	2016	CS2007H	2009	CS6168H	2009	CS9016F[TRUETONE]	2009	CT161	1122	CX-0037	1104
CS1226H	2016	CS1340G	2016	CS2008	2016	CS-6225E	2016	CS9016F[WESTGHSE]	2009	CT162	1122	CX-0037	1104
CS1226N	2009	CS1340H	2016	CS-2008F	2016	CS6225E	2009	CS9016F[WESTGHSE]	2009	CT163	1102	CX-0039	1104
CS1227	2016	CS1340I	1617	CS-2008G	2016	CS-6225F	2009	CS9016FG	2058	CT164	1102	CX0039	1104
CS1227D	2016	CS1344	1617	CS2008G	2016	CS6225F	2016	CS9016FG	2058	CT182	1101	CX-0040	1104
CS1227E	2016	CS1345	1617	CS-2008H	2016	CS-6225G	1617	CS9016G	2058	CT183	1104	CX0040	1104
CS1227F	2016	CS1348	1617	CS2008H	2016	CS6225G	2009	CS9016H	2058	CT184	1102	CX0041	1123
CS1227G	2016	CS1349	1617	CS2008H#52	2016	CS6226F	2016	CS9017	2016	CT185	1102	CX-0042	1123
CS1228	2023	CS1350	2016	CS-2009	2009	CS-6227E	2009	CS9017F	2016	CT186	1102	CX0042	1123
CS1228E	2023	CS1351	2016	CS2210	1617	CS6227E	2016	CS9017G	2016	CT200	1104	CX-0045	1123
CS1229	1617	CS1352	2030	CS2219	1617	CS-6227F	2009	CS9017H	2016	CT256	1122	CX0045	1123
CS1229A	1617	CS1353	1617	CS2221	1617	CS6227F	2016	CS9018	2016	CT257	1104	CX-0047	1123
CS1229B	1617	CS1354	2023	CS2222	1617	CS-6227G	2016	CS-9018D	2009	CT258	1102	CX0047	1104
CS1229C	1617	CS-1359	2009	CS2269	1617	CS6227G	2009	CS9018D	2016	CT259	1102	CX-0048	1104
CS1229D	1617	CS1359	2016	CS2481	1617	CS6228F	2023	CS9018E	2016	CT282	1122	CX0048	1104
CS1229E	1617	CS1360	2016	CS2484	2030	CS6229F	1617	CS9018EF	2016	CT283	1104	CX0049	1104
CS1229F	1617	CS-1361E	2009	CS2711	1617	CS7229F	2030	CS9018F	2016	CT284	1102	CX-0052	563
CS1229G	1617	CS1361E	2016	CS2712	1617	CS7229G	1617	CS9018FG	2016	CT285	1102	CX0052	563
CS1229H	1617	CS-1361F	2009	CS2713	1617	CS9001	2016	CS9018G	2016	CT286	1102	CX-0054	1104
CS1229K	2030	CS1361F	2016	CS2714	1617	CS9010	2009	CS9019	2009	CT300	1104	CX0054	1104
CS1229N	2030	CS-1361G	2009	CS2715	2016	CS-9011	1617	CS9021G-I	2016	CT461	1123	CX-0055	1123
CS1235C	1617	CS1361G	1617	CS2716	2016	CS9011	1617	CS9022LE	2030	CT400	1104	CX-9001	1104
CS1235E	1617	CS1362	1617	CS2922	1617	CS9011(C)	1617	CS9010B	1617	CT1012	2016	CX9001	1104
CS-1235F	1617	CS1363	1617	CS2923	1617	CS9011(E)(F)	2009	CS9102	2023	CT1013	2016	CXL107	2016
CS1235G	1617	CS1368	1617	CS2924	1617	CS9011(EF)	2009	CS9103B	2030	CT1018	2016	CXL108	2016
CS1236D	1617	CS1368A	1617	CS2925	1617	CS9011(F)	1617	CS9103C	2030	CT1019	2016	CXL109	1123
CS1236H	1617	CS1368B	1617	CS2941	2023	CS9011(GH)	2009	CS9104	2016	CT1020	2016	CXL110	1123
CS1238	2016	CS1369C	1617	CS-3001E	2016	CS9011(I)	1617	CS9124-C2	2016	CT1021	2016	CXL114	1101
CS-1238F	2009	CS1368D	1617	CS9001B	2009	CS9001B	1617	CS9124B1	2016	CT1390	2016	CXL115	1101
CS1238F	1617	CS1370	1617	CS3390	1617	CS9011E	1617	CS9125-B1	2016	CT1340	2016	CXL116	1104
CS1238G	2016	CS1371	1617	CS3391	1617	CS-9011F	2009	CS-9125B	1617	CT-2402	1123	CXL117	1104
CS1238H	2016	CS-1372	2030	CS3391A	1617	CS9011F	1617	CS9125B	1617	CT2002	1123	CXL120	1101
CS1238I	2016	CS1372	1617	CS3392	1617	CS-9011G	1617	CS9126	1617	CT-2005	1123	CXL123A	2009
CS-1238P	2009	CS1383	1617	CS3393	1617	CS9011G	1617	CS9128-B2	1617	CT2005	1123	CXL125	1114
CS1238P	1617	CS-1386E	1617	CS3394	1617	CS9011H	1617	CS9128C1	2023	CT2007	1123	CXL128	2030
CS1243E	2016	CS-1386H	2009	CS3395	1617	CS9011I	1617	CS9129	2023	CT2008	1123	CXL130	2041
CS1243H	2016	CS1386H	2016	CS3396	1617	CS9011N	2009	CS9129B1	2023	CT-3003	1104	CXL132	2035
CS1244H	2016	CS1420	1617	CS3397	1617	CS9012	2023	CS9129B2	2023	CT3003	1104	CXL133	2035
CS1244J	2016	CS1439E	1617	CS3398	1617	CS9012E	2023	CS9600-4	1617	CT-3005	1104	CXL135	565
CS-1244K	2009	CS1453F	2030	CS3402	1617	CS9012E-F	2023	CS9600-5	1617	CT3005(RATIO-DET.)	1123	CXL137	561
CS1244X	2016	CS1453G	2030	CS3403	1617	CS9012F	2023	CS-12941	2009	CTN50	1114	CXL139	562
CS1245F	1617	CS1460E	2016	CS3404	1617	CS9012FG	2023	CS13401	1617	CTN100	1114	CXL142	563
CS1245G	1617	CS1460H	2016	CS3405	1617	CS9012G	2023	CS-90111	2009	CTN100	1114	CXL145	564
CS1245H	1617	CS1461J	2016	CS3414	1617	CS9012H	2023	CS90111	1617	CTN200	1104	CXL152	2020
CS1245I	2009	CS1461X	2016	CS3415	1617	CS9012HE	2023	CS9012HE	2023	CTN300	1114	CXL153	2027
CS1245T	1617	CS1462F	2016	CS3416	1617	CS-9012HF	2023	CS9012HF	2023	CTN400	1114	CXL156	1114
CS1248	2030	CS1462I	2030	CS3417	1617	CS9012HF	2023	CSM3B1	1067	CTN500	1114	CXL159	2009
CS1248I	2030	CS1463A	1617	CS3505	1617	CS9012HF	2023	CSM3B2	1067	CTN600	1114	CXL161	2016
CS1248T	2030	CS1464H	2030	CS3506	1617	CS9012HF	2023	CT11-1A	1090	CTN800	1114	CXL164	2058
CS1250E	1617	CS1508G	2016	CS3607	1617	CS9012I	2023	CT11-2A	1090	CTN1000	1114	CXL165	2058
CS1250F	2030	CS1509E	2016	CS3662	2016	CS-9013	2009	CT11-4A	1090	CTP50	1114	CXL166	1171
CS151E	2023	CS1509F	2016	CS3663	2016	CS9013	1617	CT12-1A	1090	CTP100	1114	CXL168	1173
CS1251F	2023	CS1518E	2016	CS3702	2023	CS9013B	1617	CT12-2A	1090	CTP200	1114	CXL177	1122
CS1252B	2016	CS1555	2016	CS3703	2023	CS9013E	1617	CT12-4A	1090	CTP300	1114	CXL178MP	1122
CS1252C	2016	CS1585	1617	CS3704	2030	CS9013E-F	2030	CT16X7	1122	CTP400	1114	CXL186	2017
CS1255H	2030	CS1585E/F	1617	CS3705	2030	CS9013F	1617	CT21	1122	CTP461	1123	CXL196	2020
CS1257	1617	CS1585G	1617	CS3706	2030	CS9013G	1617	CT22	1101	CTP461	1123	CXL199	2016
CS-1258	2009	CS1585H	2016	CS3707	2016	CS9013H	1617	CT23	1104	CTP500	1114	CXL223	2041
CS1258	1617	CS1589E	2016	CS3708	2016	CS-9013HE	2009	CT24	1102	CTP573	1123	CXL238	2055
CS-1259	2009	CS1589F	2016	CS3709	2016	CS9013HE	1617	CT26	1122	CTP600	1114	CXL239	1122
CS1259	1617	CS1589S	2016	CS3710	2016	CS9013HF	1617	CT27	1101	CTP600	1114	CXL3009	565
CS1383A	1617	CS1591E	2030	CS3711	2016	CS-9013HF	2030	CT28	1104	CTP1000	1114	CXL5010	565
CS1294B	2016	CS1594E	2016	CS3843	1617	CS9013H2	1617	CT29	1103	CTP-2001-1#			

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CXL5018	562	CZ939B	562	CZG4.7D5	565	D2G	563	D13TD5442X	1122	D28H	2020	D39J1	2023
CXL5021	563	CZ4565	561	CZG4.7D10	565	D2G-1	563	D13TGM A010	1122	D28J	2020	D39J1-6	2009
CXL5024	564	CZ4565A	561	CZG5.1D	565	D2G-2	563	D15A	1104	D28K	2020	D39J2	2023
CXL5068	565	CZ4566	561	CZG5.1D5	565	D2G-3	563	D15C	1104	D28L	2020	D39J3	2023
CXL5069	565	CZ4566A	561	CZG5.1D10	565	D2G-4	563	D16E7	1617	D28M	2020	D39J4	2023
CXL5070	561	CZ4567	561	CZG6.2D	561	D2H	1104	D16E9	1617	D28OR	2020	D39J5	2023
CXL5073	562	CZ4567A	561	CZG6.2D5	561	D2J	1104	D16EC18	1617	D28R	2020	D39J6	2023
CXL5400	1067	CZ4568	561	CZG6.2D10	561	D2L0040070	1114	D16G6	2016	D28TO11E10	1104	D40E1	2017
CXL5401	1067	CZ4568A	561	CZG9.1D	562	D2L0TVR06G	1104	D16K1	2016	D28X	2020	D40E7	2017
CXL5402	1067	CZ4569	561	CZG9.1D5	562	D2L040070	1114	D16K2	2016	D28Y	2020	D42C1	2017
CXL5403	1067	CZ4569A	561	CZG9.1D10	562	D2R31	1123	D16K3	2016	D29	2020	D42C2	2017
CXL5404	1067	CZ4570	561	CZG12D	563	D2R38	1617	D16K4	2016	D29A	2020	D42C3	2017
CXL5452	1067	CZ4570A	561	CZG12D5	563	D2T2904	2023	D18	1104	D29A4	2023	D42C4	2017
CXL5453	1067	CZ4571	561	CZG12D10	563	D2T2904A	2023	D22N	1114	D29A5	2023	D42C5	2017
CXL5454	1067	CZ4571A	561	D004	1104	D2T2905	2023	D23F130TAL	1104	D29A6	2023	D42C6	2017
CXL5455	1067	CZ4572	561	D006	2016	D2T2905A	2023	D23FDFA05G	1104	D29A9	2023	D42C7	2017
CXL5456	1020	CZ4572A	561	D009	2058	D2U	1123	D23FDFA05GG	1104	D29B	2020	D42C8	2017
CXL5457	1020	CZ4573	561	D-00169C	1123	D2Z	562	(,DFA05G-KBG)	1104	D29E	2020	D42C9	2017
CXL5511	1067	CZ4573A	561	D-00184R	1122	D3A	1101	D23FDFC10E	1123	D29E1	2023	D42C10	2020
CXL5512	1020	CZ4574	561	D-00204R	1123	D3F	562	D23FDFH10G	1104	D29E2	2023	D42C11	2020
CXL5640	1000	CZ4574A	561	D-00269C	1123	D3G	1122	D23TDF05G	1104	D29E4	2023	D42C12	2020
CXL5641	1090	CZA9.1D	562	D-00284R	1123	D3H	561	D23TDFD05G	1104	D29E5	2023	D42D1	2068
CXL5642	1000	CZA9.1D5	562	D-00384R	1104	D3N	563	D24A3391	2016	D29E6	2023	D43C7	2027
CXL5650	1000	CZA9.1D10	562	D-00469C	561	D3R	1104	D24A3391A	2016	D29E7	2023	D44A10H	2020
CXL5651	1000	CZA12D	563	D-00484R	1123	D3R38	1104	D24A3392	2016	D29E8	2023	D44C1	2020
CXL5652	1000	CZA12D5	563	D-00569C	562	D3R39	1104	D24A3393	2016	D29F	2020	D44C2	2020
CXL5662	1000	CZA12D10	563	D-00669C	1123	D3U	1104	D24A3394	2016	D29F1	2023	D44C3	2020
CXL5800	1114	CZA15D	564	D01-100	1104	D3V	1104	D24A3900	2016	D29F2	2023	D44C4	2020
CXL5801	1114	CZA15D5	564	D02Z6-2W	561	D3W	563	D24A3900A	2016	D29F3	2023	D44C5	2020
CXL5802	1114	CZA15D10	564	D02Z62W	561	D3Y	561	D24F00V09G	1104	D29F4	2023	D44C6	2020
CXL5803	1114	CZA1J02	1104	D-05	1104	D3Z	1104	D25T5566B0	1104	D29F5	2023	D44C7	2020
CXL5804	1114	CZB9.1D	562	D05	1104	D4C28	2030	D26B1	2016	D29F6	2023	D44C8	2020
CXL5805	1114	CZB9.1D5	562	D05G	1104	D4C29	2030	D26B2	2016	D29F7	2023	D44C9	2020
CXL5806	1114	CZB9.1D10	562	D010	1123	D4C30	2030	D26C1	2016	D29G	2020	D44C10	2020
CXL5808	1114	CZB12D	563	D031(CHAN.MASTER)	D4C31	2030	2030	D26C2	2016	D29J	2020	D44C11	2020
CXL5809	1114	CZB12D5	563	D048	2009	D4D20	2030	D26C3	2016	D29K	2020	D44C12	2020
CY40	1104	CZB12D10	563	D053	1617	D4D21	2030	D26C4	2016	D29L	2020	D44C88	2017
CY50	1104	CZB15D	564	D058	1617	D4D22	2016	D26C5	2016	D29M	2020	D44D1	2068
CY80	1114	CZB15D5	564	D069	2016	D4D24	1617	D26E-1	2016	D29OR	2020	D44D2	2068
CY100	1114	CZB15D10	564	D072	1617	D4D25	1617	D26E-2	2016	D29R	2020	D44D3	2068
CZ-092	562	CZC9.1D	562	D087	2058	D4D26	1617	D26E2	2016	D29X	2020	D44D4	2068
CZ092	562	CZC9.1D5	562	D088	2016	D4L	1114	D26E-3	2016	D29Y	2020	D44D5	2068
CZ-094	562	CZC9.1D10	562	D093	2016	D4M	1104	D26E-4	2016	D30A1	2023	D44D6	2068
CZ094	562	CZC12D	563	D093	1123	D4N	563	D26E-5	2016	D30A2	2023	D44H7	2020
CZ4.7	565	CZC12D5	563	D0123WX	1000	D4R	1123	D26E-6	2016	D30A3	2023	D44H10	2020
CZ5.1	565	CZC12D10	563	D1-8	562	D4R26	1104	D26E-7	2016	D30A4	2023	D44H11	2020
CZ6.2	561	CZC15D	564	D1-26	1104	D5	1101	D26G-1	2016	D30A5	2023	D44M1	2020
CZ9.1	562	CZC15D5	564	D1-525	1104	D5B	564	D26G1	2016	D32K1	2009	D44M2	2020
CZ9.1A	562	CZC15D10	564	D1D	1114	D5G	1104	D27C1	2020	D32K2	2009	D44M4	2020
CZ9.1B	562	CZD012	563	D1E	1104	D5H	1104	D27C2	2020	D32P1	2016	D44M5	2020
CZ9.1C	562	CZD012-5	563	D1G	562	D5R35	1104	D27C3	2020	D32P2	2016	D44M7	2020
CZ12	563	CZD015	564	D1H	1104	D5R39	1104	D27C4	2020	D32P3	2016	D44M8	2020
CZ12A	563	CZD015-5	564	D1I0A243A0	1122	D5V	1122	D28	1104	D32P4	2016	D44M10	2020
CZ12B	563	CZD9.1D	562	D1J	1104	D5W	561	D28(TRANS)	2020	D32S6	2068	D44M11	2020
CZ12C	563	CZD9.1D5	562	D1J70542	1123	D6	1101	D28A	2020	D32S7	2068	D44VH1	2020
CZ12D	563	CZD9.1D10	562	D1J70543	1123	D6HZ	1104	D28A1	2020	D32S10	2068	D44VH4	2020
CZ15	564	CZD12D	563	D1J70544	1104	D6.2	561	D28A2	2020	D32W12	2009	D44VH7	2020
CZ15A	564	CZD12D5	563	D1J70545	1122	D7	1101	D28A3	2020	D33(2S)	2016	D44VH10	2020
CZ15B	564	CZD12D10	563	D1K	1114	D7A30	2030	D28A4	2020	D33A	2016	D44VM1	2020
CZ15C	564	CZD15D	564	D1K20	1104	D7A31	2030	D28A5	2020	D33B	2016	D44VM4	2020
CZ15D	564	CZD15D5	564	D1K40	1104	D7A32	2030	D28A6	2020	D33C(2S)	2016	D44VM7	2020
CZ821	561	CZD15D10	564	D1L	1104	D7E	1122	D28A7	2020	D33D	2016	D44VM10	2020
CZ821A	561	CZE9.1D	562	D1N4002	1104	D7Z	1122	D28A9	2020	D33D28	1617	D45C	1104
CZ822	561	CZE9.1D5	562	D1R5GZ61	1114	D8HZ	1114	D28A10	2020	D33E	2016	D45CZ	1104
CZ823	561	CZE9.1D10	562	D1R5GZ61FA	1114	D8U	562	D28A12	2020	D33F	2016	D48	1104
CZ823A	561	CZE12D	563	D1R20Z	1102	D9B	1123	D28A13	2020	D33G	2016	D48(TRANS)	2020
CZ824	561	CZE12D5	563	D1R38	1617	D9D	1123	D28B	2020	D33GN	2016	D49(2S)	2020
CZ825	561	CZE12D10	563	D1R40Z	1103	D9E	1123	D28C	2020	D33H	2016	D49A	2020
CZ825A	561	CZE15D	564	D1S34	1123	D9I	1123	D28D	2020	D33J	2016	D49B	2020
CZ827	561	CZE15D5	564	D1S1553	1122	D9K	1123	D28D(2S)	2020	D33K	2016	D49C	2020
CZ827A	561	CZE15D10	564	D1S1554	1122	D9L	1123	D28D1	2020	D33L	2016	D49D	2020
CZ829	561	CZF4.7D	565	D1S1555	1122	D9M	562	D28D2	2020	D33OR	2016	D49E	2020
CZ829A	561	CZF4.7D5	565	D1S1555(,1S1555)	1122	D9SZ	1123	D28D3	2020	D33X	2016	D49F	2020
CZ935	562	CZF4.7D10	565	D1S1887FA	1104	D9V	1123	D28D4	2020	D33Y	2016	D49G	2020
CZ935A	562	CZF5.1D	565	D-1S2473	1122	D10B1051	2016	D28D5	2020	D34J1	2023	D49GN	2020
CZ935B	562	CZF5.1D5	565	D-1SS133	1122	D10B1055	2016	D28D7	2020	D34J2	2023	D49J	2020
CZ936	562	CZF5.1D10	565	D1Y	2016	D10G1051	2016	D28D8	2017	D34J4	2023	D49K	2020
CZ936A	562	CZF6.2D	561	D1Z	564	D10G1052	2016	D28D10	2020	D34J5	2023	D49L	2020
CZ936B	562	CZF6.2D5	561	D1ZBLU	564	D11C1B1	2030	D28E	2020	D38H1	2009	D49M	2020
CZ937	562	CZF6.2D10	561	D1ZYEL	564	D11C1F1	2009	D28E(2S)	2020	D38H1-6	2009	D49OR	2020
CZ937A	562	CZF9.1D	562	D-2	1123	D11C2D1B20	2009	D28F	2020	D38H2	2009	D49R	2020
CZ937B	562	CZF9.1D5	562	D-2.1	1104	D11C3B1	2030	D28F00BB4C	1104	D38H3	2009	D49X	2020
CZ938	562	CZF9.1D10	562	D2B000RH10	1104	D11C5B1	2030	D28F00BB40	1104	D38S1	2009	D49Y	2020
CZ938A	562	CZF12D	563	D2B000RU20	1104	D11C5F1	2009	D28F30DF20	1114	D38S5	2009	D50	1101
CZ938B	562	CZF12D5	563	D2B000RU20	1104	D11C7B1	2030	D28G	2020	D38S8	2009	D52	2041
CZ939	562	CZF12D10	563	D2BPM115MR	1104 N1	D11C10B1	2030	D28G10E100	1114	D38S9	2009	D56W1	2055
CZ939A	562	CZG4.7D	565	D2BPM115MS	1104 N2	D11C1B1	2030	D28GN	2020	D38Y1-3	2009	D56W2	2055

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D65C	1104	D119-YEL	2041	D154L	2020	D182H	2030	D205(2S)	2030	D228(2S)	2009	D259	2030
D67(2S)	2041	D119A	2041	D154M	2020	D182J	2030	D205A	2030	D228F	2009	D288(2S)	2030
D67B(2S)	2041	D119B	2041	D154R	2020	D182K	2030	D205B	2030	D228G	2009	D288A(2S)	2030
D67C(2S)	2041	D119BL(2S)	2041	D154X	2020	D182L	2030	D205C	2030	D228H	2009	D288B(2S)	2030
D67D(2S)	2041	D119C	2041	D154Y	2020	D182OR	2030	D205D	2030	D228I	2009	D288C(2S)	2030
D67E(2S)	2041	D119D	2041	D163(2S)	2041	D182R	2030	D205E	2030	D228J	2009	D288D(2S)	2030
D68	2041	D119R(2S)	2041	D164(2S)	2041	D182X	2030	D205F	2030	D228K	2009	D288E(2S)	2030
D69(2S)	2041	D119Y(2S)	2041	D172	2041	D182Y	2030	D205G	2030	D228L	2009	D288F(2S)	2030
D74(2S)	2009	D122	2020	D172A	2041	D183(2S)	2030	D205GN	2030	D228M	2009	D288G(2S)	2030
D85C	1114	D123	2020	D172B	2041	D183B	2030	D205H	2030	D228OR	2009	D288H(2S)	2030
D90(2S)	2020	D124(RECT.)	1104	D172C	2041	D183E	2030	D205J	2030	D228R	2009	D288I(2S)	2030
D90A	2020	D130DS442X	1122	D172D	2041	D183GN	2030	D205L	2030	D228X	2009	D288J(2S)	2030
D90B	2020	D130GMA010	1122	D172E	2041	D183K	2030	D205M	2030	D228Y	2009	D288K(2S)	2030
D90C	2020	D133	2009	D172F	2041	D183L	2030	D205OR	2030	D228Z	2009	D288L(2S)	2030
D90D	2020	D133(CHAN.MASTER)		D172G	2041	D183OR	2030	D205R	2030	D228A	2009	D288M(2S)	2030
D90E	2020		2016	D172GN	2041	D183R	2030	D205S	2030	D228B	2009	D288N(2S)	2030
D90F	2020	D141	1617	D172H	2041	D184(2S)	2020	D205Y	2030	D228C	2009	D288O(2S)	2030
D90G	2020	D141(2S)	2020	D172J	2041	D184A	2020	D206	1122	D228D	2009	D288P(2S)	2030
D90GN	2020	D141(CHAN.MASTER)		D172K	2041	D184B	2020	D207(2S)	2041	D228E	2009	D288Q(2S)	2030
D90H	2020		2016	D172L	2041	D184C	2020	D207A	2041	D228F	2009	D288R(2S)	2030
D90I	2020	D141A	2020	D172M	2041	D184D	2020	D21	2041	D228G	2009	D288S(2S)	2030
D90J	2020	D141B	2020	D172OR	2041	D184E	2020	D211(2S)	2041	D228H	2009	D288T(2S)	2030
D90L	2020	D141C	2020	D172R	2041	D184F	2020	D211-OR	2041	D228I	2009	D288U(2S)	2030
D90M	2020	D141E	2020	D172X	2041	D184H	2020	D211A	2041	D228J	2009	D288V(2S)	2030
D90OR	2020	D141F	2020	D172Y	2041	D184J	2020	D211B	2041	D228K	2009	D288W(2S)	2030
D90X	2020	D141G	2020	D174	2041	D184K	2020	D211C	2041	D228L	2009	D288X(2S)	2030
D90Y	2020	D141GN	2020	D174A	2041	D184L	2020	D211D	2041	D228M	2009	D288Y(2S)	2030
D91(2S)	2020	D141H	2020	D174B	2041	D184M	2020	D211E	2041	D228N	2009	D288Z(2S)	2030
D91A	2020	D141H01(2S)	2020	D174C	2041	D184OR	2020	D211F	2041	D228O	2009	D288A(2S)	2030
D91B	2020	D141J	2020	D174D	2041	D184Y	2020	D211G	2041	D228P	2009	D288B(2S)	2030
D91E	2020	D141K	2020	D174E	2041	D185	2020	D211GN	2041	D228Q	2009	D288C(2S)	2030
D91F(2S)	2020	D141L	2020	D174F	2041	D188	2020	D211H	2041	D228R	2009	D288D(2S)	2030
D91G	2020	D141M	2020	D174G	2041	D188A(2S)	2041	D211J	2041	D228S	2009	D288E(2S)	2030
D91GN	2020	D141OR	2020	D174GN	2041	D188B(2S)	2041	D211K	2041	D228T	2009	D288F(2S)	2030
D91H	2020	D141R	2020	D174H	2041	D188C(2S)	2041	D211L	2041	D228U	2009	D288G(2S)	2030
D91J	2020	D141X	2020	D174J	2041	D188D	2041	D211M	2041	D228V	2009	D288H(2S)	2030
D91L	2020	D141Y	2020	D174K	2041	D188E	2041	D211OR	2041	D228W	2009	D288I(2S)	2030
D91M	2020	D144S	1104	D174L	2041	D188F	2041	D211R	2041	D228X	2009	D288J(2S)	2030
D91OR	2020	D146(2S)	2020	D174M	2041	D188G	2041	D211X	2041	D228Y	2009	D288K(2S)	2030
D91R	2020	D146A	2020	D174R	2041	D188GN	2041	D211Y	2041	D228Z	2009	D288L(2S)	2030
D91X	2020	D146B	2020	D174X	2041	D188H	2041	D212(2S)	2041	D228A	2009	D288M(2S)	2030
D91Y	2020	D146C	2020	D174Y	2041	D188J	2041	D213(2S)	2041	D228B	2009	D288N(2S)	2030
D9206R2B2	561	D146D	2020	D175(2S)	2041	D188L	2041	D214	2041	D228C	2009	D288O(2S)	2030
D93T04R7CX	565	D146E	2020	D175A	2041	D188M	2041	D215(2S)	2041	D228D	2009	D288P(2S)	2030
D93T05R1CY	565	D146F	2020	D175B	2041	D188OR	2041	D216	2041	D228E	2009	D288Q(2S)	2030
D93T06R100	565	D146G	2020	D175C	2041	D188R	2041	D219(2S)	2030	D228F	2009	D288R(2S)	2030
D93T06R2CY	561	D146GN	2020	D175D	2041	D188X	2041	D219A	2030	D228G	2009	D288S(2S)	2030
D93T06R200	561	D146H	2020	D175E	2041	D188Y	2041	D219A(2S)	2030	D228H	2009	D288T(2S)	2030
D93T01200Y	563	D146J	2020	D175F	2041	D189(2S)	2041	D219B	2030	D228I	2009	D288U(2S)	2030
D93T01200Y, GZA12BT	563	D146K	2020	D175G	2041	D189A(2S)	2041	D219C	2030	D228J	2009	D288V(2S)	2030
		D146L	2020	D175GN	2041	D189B	2041	D219D	2030	D228K	2009	D288W(2S)	2030
D97U0R23B	561	D146OR	2020	D175H	2041	D189C	2041	D219E	2030	D228L	2009	D288X(2S)	2030
D100	1104	D146R	2020	D175J	2041	D189D	2041	D219F	2030	D228M	2009	D288Y(2S)	2030
D105C	1114	D146UK(2S)	2020	D175K	2041	D189E	2041	D219G	2030	D228N	2009	D288Z(2S)	2030
D107	2041	D146VK	2020	D175L	2041	D189F	2041	D219GN	2030	D228O	2009	D288A(2S)	2030
D108	1114	D146X	2020	D175M	2041	D189G	2041	D219H	2030	D228P	2009	D288B(2S)	2030
D108(TRANS)	2041	D146Y	2020	D175OR	2041	D189GN	2041	D219J	2030	D228Q	2009	D288C(2S)	2030
D110	2041	D147(2S)	2020	D175R	2041	D189H	2041	D219K	2030	D228R	2009	D288D(2S)	2030
D110-0	2041	D147A	2020	D175X	2041	D189J	2041	D219L	2030	D228S	2009	D288E(2S)	2030
D110-O(2S)	2041	D147B	2020	D175Y	2041	D189K	2041	D219M	2030	D228T	2009	D288F(2S)	2030
D110-ORG	2041	D147C	2020	D176	362	D189M	2041	D219OR	2030	D228U	2009	D288G(2S)	2030
D110-R(2S)	2041	D147D	2020	D180(2S)	2041	D189OR	2041	D219R	2030	D228V	2009	D288H(2S)	2030
D110-RED	2041	D147E	2020	D180A(2S)	2041	D189R	2041	D219X	2030	D228W	2009	D288I(2S)	2030
D110-Y(2S)	2041	D147F	2020	D180B(2S)	2041	D189X	2041	D219Y	2030	D228X	2009	D288J(2S)	2030
D110-YEL	2041	D147GN	2020	D180C(2S)	2041	D189Y	2041	D220	1101	D228Y	2009	D288K(2S)	2030
D110A243A0	1122	D147H	2020	D180D(2S)	2041	D199(2S)	2055	D220(TRANS)	2030	D228Z	2009	D288L(2S)	2030
D110A243AC	1122	D147J	2020	D180F	2041	D200(IR)	1122	D220A	2030	D228A	2009	D288M(2S)	2030
D111	2041	D147K	2020	D180G	2041	D200MP	2041	D220A(2S)	2030	D228B	2009	D288N(2S)	2030
D111-0	2041	D147L	2020	D180GN	2041	D200MP(IR)	1122	D220B	2030	D228C	2009	D288O(2S)	2030
D111-O(2S)	2041	D147M	2020	D180H	2041	D204(2S)	2030	D220B(2S)	2030	D228D	2009	D288P(2S)	2030
D111-ORG	2041	D147OR	2020	D180J	2041	D204A	2030	D220C	2030	D228E	2009	D288Q(2S)	2030
D111-R(2S)	2041	D147R	2020	D180K	2041	D204B	2030	D220D	2030	D228F	2009	D288R(2S)	2030
D111-RED	2041	D147X	2020	D180L	2041	D204BL	2030	D220E	2030	D228G	2009	D288S(2S)	2030
D111-Y(2S)	2041	D147Y	2020	D180M(2S)	2041	D204C	2030	D220F	2030	D228H	2009	D288T(2S)	2030
D111-YEL	2041	D148	2020	D180OR	2041	D204D	2030	D220G	2030	D228I	2009	D288U(2S)	2030
D111R	2041	D149	2030	D180R	2041	D204E	2030	D220GN	2030	D228J	2009	D288V(2S)	2030
D116	2041	D154(2S)	2020	D180X	2041	D204F	2030	D220H	2030	D228K	2009	D288W(2S)	2030
D118	2041	D154A	2020	D180Y	2041	D204G	2030	D220J	2030	D228L	2009	D288X(2S)	2030
D118BL(2S)	2041	D154B	2020	D182(2S)	2030	D204GA	2030	D220K	2030	D228M	2009	D288Y(2S)	2030
D118R(2S)	2041	D154C	2020	D182A	2030	D204GN	2030	D220L	2030	D228N	2009	D288Z(2S)	2030
D118Y(2S)	2041	D154E	2020	D182B	2030	D204H	2030	D220M(2S)	2030	D228O	2009	D288A(2S)	2030
D119	2041	D154F	2020	D182C	2030	D204J	2030	D220OR	2030	D228P	2009	D288B(2S)	2030
D119-BL	2041	D154G	2020	D182D	2030	D204K	2030	D220R	2030	D228Q	2009	D288C(2S)	2030
D119-BLU	2041	D154GN	2020	D182E	2030	D204L(2S)	2030	D220X	2030	D228R	2009	D288D(2S)	2030
D119-R	2041	D154H	2020	D182F	2030	D204M	2030	D220Y	2030	D228S	2009	D288E(2S)	2030
D119-RED	2041	D154J	2020	D182G	2030	D204R	2030	D221(2S)	2030	D228T	2009	D288F(2S)	2030
D119-Y	2041	D154K	2020	D182GN	2030	D204Y	2030	D221F	2030	D228U	2009	D288G(2S)	2030

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
D317(2S)	2020	D356C	2020	D460	2068	D637QR	2009	D843	2020	D1276-LB	2068	DAAY004001	1122
D317A(2S)	2020	D356D	2020	D467	2009	D637R	2009	D849	2055	D1276A	2068	DAAY010092	562
D317AF	2020	D356E	2020	D467-C	2009	D637S	2009	D856	2020	D1276AP	2068	DAJ201	1122 N2
D317AP	2020	D357	2020	D467B	2009	D637T	2009	D856A	2020	D1276B	2068	DAN201	1122 N2
D317F(2S)	2020	D357C	2020	D467C	2009	D638	2009	D856B	2020	D1276LB	2068	DAN201VA	1122 N2
D317P(2S)	2020	D357D	2020	D467C(JAPAN)	2009	D638-R	2009	D856L	2020	D1276P	2068	DAN207-100	1102 N2
D318(2S)	2020	D357E	2020	D469	2041	D638P	2009	D856LB	2020	D1277B	2068	DAN207-200	1102 N2
D318-O	2020	D358	2020	D474K	2016	D638Q	2009	D856M	2020	D1277B(JAPAN)	2068	DAN207-400	1102 N2
D318A(2S)	2020	D358C	2020	D475	2020	D638R	2009	D856MLB	2020	D1301	2035	DAN208-100	1104 N2
D318B	2020	D358D	2020	D475A	2020	D638S	2009	D856O	2020	D1302	2035	DAN208-200	1114 N2
D318P	2020	D358E	2020	D476	2020	D639	2009	D856P	2020	D1303	2035	DAN211	1104 N2
D318Q	2020	D359(2S)	2020	D476A	2020	D639P	2009	D856Q	2020	D1318	2030	DANZ006000	1123
D322(2S)	2041	D359C(2S)	2020	D476AKB	2020	D639Q	2009	D856R	2020	D1406	2020	DANZ006000	1123
D322A(2S)	2041	D359C2(2S)	2020	D476AKC	2020	D639R	2009	D857	2020	D1406-Y	2020	DANZ0060000	1123
D322B(2S)	2041	D359D(2S)	2020	D476B	2020	D639S	2009	D857A	2020	D1406GR	2020	DAP201	1122 N1
D322C(2S)	2041	D359D1(2S)	2020	D476C	2020	D639T	2009	D857B	2020	D1406Y(JAPAN)	2020	DAP201VA	1122 N2
D323(2S)	2041	D359D2(2S)	2020	D476D	2020	D649	2020	D864K	2068	D1420	2035	DAP207-100	1104 N1
D323A(2S)	2041	D360(2S)	2020	D476G	2020	D649Q	2020	D866	2020	D1421	2035	DAP207-200	1104 N1
D323B(2S)	2041	D360D(2S)	2020	D476KB	2020	D654	2030	D866A	2020	D1445	1104	DAP207-400	1104 N1
D323C(2S)	2041	D360E(2S)	2020	D476KC	2020	D655D(JAPAN)	1617	D866B	2020	D1666	2016	DAP208-100	1104 N1
D325(2S)	2017	D361	2020	D476O	2020	D661	2016	D866D	2020	D1894	2055	DAP208-200	1114 N1
D325-1	2017	D361C	2020	D476YL	2020	D661-R(JAPAN)	2016	D866P	2020	D2340	2020	DAP211	1104 N1
D325-OR	2017	D361D	2020	D477	2020	D661S	2016	D866Q	2020	D2350	2020	DA5Z158800	1122
D325A	2017	D365	2020	D492	2041	D661T	2016	D866R	2020	D2600EF	1104	DB202	1104
D325B	2017	D365A	2020	D500	1104	D662	1617	D867	2041	D2744D	1251	DB204	1103
D325C(2S)	2017	D365B	2020	D513	2020	D664	2068	D878	2041	D3436	1104	DB206	1104
D325D(2S)	2017	D365H(2S)	2020	D517	2055	D671	2009	D880	2020	D4011BC	2411	DB208	1114
D325E(2S)	2017	D365P	2020	D522	2041	D686	2068	D880GR	2020	D4013BC	2413	DB210	1114
D325F(2S)	2017	D366	2020	D525	2020	D687	2068	D880Y	2020	D4049UBC	2449	DBA10B	1171
D325G	2017	D366A	2020	D525-O	2020	D691	2068	D880Y(JAPAN)	2020	D4066BC	2466	DBA10E	1173
D325GN	2017	D368(2S)	2055	D525-Y	2020	D704	2020	D880Y(KOREA)	2020	D4164C-2	2506	DBBY407004	2020
D325H	2017	D370	2041	D525R	2020	D704D	2020	D886	2020	D4164C-3	2506	DBCZ037300	2016
D325J	2017	D379(2S)	2041	D525Y	2020	D704E	2020	D886A	2020	D4164C-15	2506	DBCZ039404	2058
D325K	2017	D380(2S)	2055	D526	2020	D721	2068	D886F	2020	D4250	2041	DBCZ073304	2016
D325L	2017	D380A	2055	D526-O	2020	D723	2020	D886P	2020	D4642	1122	DBCZ073503	2009
D325M	2017	D381	2020	D531	2020	D725	2055	D886Q	2020	D6623	1104	DBCZ073504	2009
D325OR	2017	D381K	2020	D544	2020	D725-06	2055	D889	2016	D6623A	1104	DBCZ083905	2009
D325R	2017	D381L	2020	D560	2068	D726	2020	D889Q	2016	D6624	1104	DBCZ083906	1617
D325X	2017	D381M	2020	D570	2020	D734	2009	D889R	2016	D6624A	1104	DBCZ094504	2016
D325Y	2017	D382(2S)	2020	D575	2055	D734-NP	2009	D889T	2016	D6625	1104	DBCZ136406	1617
D327(2S)	2009	D385	2068	D575L	2055	D734E	2009	D918	2020	D6625A	1104	DBCZ373000	2016
D327-V	2009	D389(2S)	2020	D577	2055	D734F	2009	D919	2009	D6726	1122	DC	1104 N2
D327A(2S)	2009	D389-O	2020	D581	2041	D734G	2009	D940W01120	563	D8410	1123	DC-13	1123
D327B(2S)	2009	D389-O(2S)	2020	D581A	2041	D743	2070	D959LB	2020	D9634	2016	DC8457	1122
D327C(2S)	2009	D389A(2S)	2020	D582	2041	D743A	2020	D959Q	2020	D10167	1104	DCA25B	1114 N2
D327D(2S)	2009	D389AF	2020	D582A	2041	D743R	2020	D960	2020	D10168	1104	DCA25C	1114 N2
D327E(2S)	2009	D389AFO	2020	D589	2055	D762	2020	D960Q(JAPAN)	2020	D20000BB40	1104	DCA25E	1114 N2
D327F(2S)	2009	D389AFO	2020	D590	2030	D762-O(JAPAN)	2020	D969	2030	D21489	1104	DCB25B	1114 N1
D327L	2009	D389AFP(2S)	2020	D591	2016	D762P	2020	D1000	1114	D24000V09G	1104	DCB25C	1114 N1
D327OR	2009	D389AO	2020	D591R	2016	D762P(JAPAN)	2020	D1010	2016	D28000BB40	1104	DCB25E	1114 N1
D327R	2009	D389AP	2020	D592	2009	D762Q	2020	D1010S	2016	D92004R7B0	565	DCD015	1122 N1
D328(2S)	2030	D389AQ	2020	D592ANC	2009	D778	2009	D1012	2009	D92004R7B1	565	DCD015	1122 N2
D328S(2S)	2030	D389BLB	2020	D592NC	2009	D778Q	2009	D1012F	2009	D92005R1B0	565	DCERB12-01	1104
D330	2020	D389BLB-C	2020	D592R	2009	D778R	2009	D1012G1	2009	D93004R70X	565	DCV6	1114
D330D(2S)	2020	D389BLB-P	2020	D599	2016	D783	2055	D1022	2068	D93004R70Z	565	DD-000	1104
D330E	2020	D389BP	2020	D603	2020	D792	2055	D1024	2068	D93005R10X	565	DD000	1101
D331	2020	D389L	2020	D613	2020	D792S	2055	D1044A	2068	D101167	1104	DD-003	1104
D334(2S)	2041	D389LB(2S)	2020	D613P	2020	D792T	2055	D1060K	2041	D230130TAL	1104	DD003	1104
D334A(2S)	2041	D389LBP	2020	D633	2068	D800	1114	D1061	2020	D280010D40	1114	DD-006	1104
D334R(2S)	2041	D389LP	2020	D634	2068	D804	2020	D1098-42M	2017	D9200120B1	563	DD006	1104
D339	2041	D389P	2020	D635	2068	D804H	2020	D1101	2035	D93201200X	563	DD-007	1104
D339-1	2041	D389Q	2020	D636	2068	D804HLB	2020	D1102	2035	D93001200Y	563	DD007	1104
D339-2	2041	D389R	2020	D636-O	2009	D804HP	2020	D1103	2055	D93011201B	563	DD05	1101
D340	2041	D390	2020	D636-Q	2009	D807	2055	D1131B	2020	DA000	1104	DD05(HR)	1101
D340-1	2041	D390A	2020	D636-Q(JAPAN)	2009	D807M	2055	D1131C	2020	DA001	1104	DD06	1101
D340-2	2041	D390P	2020	D636-R	2009	D820	2055	D1131D	2020	DA002	1104	DD06(HR)	1101
D341(2S)	2041	D390Q	2020	D636-R(JAPAN)	2009	D820-1(JAPAN)	2055	D1132B	2020	DA058	1114	DD07(HR)	1101
D341H(2S)	2041	D392	2009	D636P	2009	D821	2055	D1132C	2020	DA090	1123	DD056	1104
D342(2S)	2020	D394	2055	D636Q	2009	D822	2055	D1132D	2020	DA101	1122	DD058	1114
D343(2S)	2020	D404	2020	D636R	2009	D822P	2055	D1133B	2020	DA101A	1122	DD15954	1122
D343A	2020	D404G	2020	D636S	2009	D822Q	2055	D1133C	2020	DA101B	1122	DD10A	1114
D343B	2020	D405(2S)	2068	D636T	2009	D836	2068	D1135(JAPAN)	2020	DA102	1122	DD175C	1104
D343C	2020	D409	2068	D637	2009	D836A	2068	D1135-S(JAPAN)	2020	DA102A	1122	DD176C	1104
D343D	2020	D416(TRANS)	2055	D637-O	2009	D836Q	2068	D1135C(JAPAN)	2020	DA102B	1122	DD177C	1104
D343H	2020	D418(2S)	2055	D637-P	2009	D836R	2068	D1172S	1104	DA203	1122 N3	DD236	1104
D343J	2020	D419	2068	D637-Q	2009	D837	2068	D1177	2035	DA-203X	1122 N3	DD266	1104
D343K	2020	D425(2S)	2041	D637-Q(JAPAN)	2009	D837A	2068	D1178	2035	DA-203Y	1122 N3	DD268	1114
D344	2020	D425-O	2041	D637-QR	2009	D837AB	2068	D1181	2035	DA-204X	1122 N3	DD1000	1101
D345	2020	D425-R	2041	D637-R	2009	D837AD	2068	D1183	2055	DA-204Y	1122 N3	DD2066	1104
D346	2020	D425O	2041	D637-R(JAPAN)	2009	D837AQ	2068	D1184	2055	DA205	1122	DD2068	1114
D347	2020	D426	2041	D637C	2009	D837AR	2068	D1185	2055	DA1000	1104	DD2320	1104
D348	2055	D426-O	2041	D637CR	2009	D837B	2068	D1186	2055	DA1703	1101	DD2321	1104
D350	2055	D426-R	2041	D637O	2009	D837LB	2058	D1206Q	2016	DA1704	1101	DD2327	1114
D350A	2055	D427	2041	D637P	2009	D837O	2058	D1206R	2016	DA2068	1114	DD3078	1114
D350Q(2S)	2055	D427-O	2041	D637PQR	2009	D837P	2068	D1266P(JAPAN)	2020	DAAY001002	1123	DDAY001001	1123
D350T	2055	D427-R	2041	D637Q	2009	D837Q	2068	D1266Q	2020	DAAY002001	1104	DDAY001002	1123
D356	2020	D431(HR)	1104	D637Q(JAPAN)	2009	D837R	2068	D1276-AP	2068	DAAY003002	1122	DDAY001004	1123

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DDAY001010	1123	DFA01G	1104	DGM-2	1123	DK20	1123	DR400	1104	DS15C	1104	DS77	1817
DDAY001022	1123	DFA05G	1104	DGM-3	1123	DK21	1123	DR426	1123	DS15E	1104	DS-78	2016
DDAY002001	1104	DFA09C	1104	DGM3	1123	DKD51555	1123	DK427	1104	DS-16(SEARS-DIODE)	1104	DS79	2016
DDAY002002	1104	DFA09E	1104	DM-001	1104	DKB-04	1102	DR434	1123		1104	DS-79	1104
DDAY004001	1112	DFA05G	1104	DM-002	1104	DMGA90A-M	1123	DR435	1101	DS-16A	1104	DS79	1104
DDAY007001	033	DFA05G-KB4	1104	DH152076	1122	DM-40	038	DR449	1123	DS16A	1104	DS-79(DELCO)	1104
DDAY008001	561	DFA05G-KBG	1104	DH152076A	1122	DM-87	1712	DR463	1123	DS-16A(SANYO)	1114	DS-80	1104
DDAY010002	562	DFA1A2	1104	DH4R2	1104	DM87	1712	DR464	1123	DS-16B	1104	DS80	1104
DDAY010005	562	DFA1A4	1104	DH14	1104	DM-94	1770	DR500	1104	DS16B	1104	DS-81	2058
DDAY042001	1104	DFB05B	1104	DH14A	1104	DM7400	1801	DR600	1104	DS-16B(SANYO)	1104	DS81	2016
DDAY047001	1122	DFB05C	1104	DH16	1104	DM7400J	1801	DR664	1122	DS-16B(SYLVANIA)	1104	DS-82	2023
DDAY047905	1122	DFB05E	1104	DH16A	1104	DM7400N	1801	DR668	1104	DS16C	1104	DS82	2023
DDAY-048001	1122	DFB05G	1104	DHD900	1123	DM7401J	1801	DR659	1104	DS-16C(SANYO)	1104	DS-83	2023
DDAY048001	1122	DFC10E	1104	DHD905	1123	DM7401N	1801	DR670	1103	DS-16D	1104	DS83	2023
DDAY048007	1122	DFC10E-KB4	1104	DHD806	1122	DM7404N	1802	DR671	1104	DS16D	1104	DS-85	2016
DDAY048008	1122	DFC10G	1104	DHD8001	1122	DM7408J	1822	DR677	1122	DS-16D(SANYO)	1104	DS85	2016
DDAY048012	1122	DFD05G	1104	DI-1	1123	DM7408N	1822	DR695	1104	DS-16E	1104	DS-88	2035
DDAY048013	1122	DFQA02-05C	565	DI-2	1123	DM7447AJ	1805	DR698	1104	DS16E	1104	DS88	2035
DDAY048014	1122	DFQA02-05C	565	DI-7	1104	DM7447AN	1805	DR699	1103	DS-16E(SANYO)	1104	DS-94	2009
DDAY069001	1122	(EQA02-05(C))	565	DI7	1104	DM7447N	1805	DR700	1114	DS16N	1104	DS-97	1122
DDAY101001	1122	DFQA02-05C	565	DI-8	542	DM7490	1808	DR600	1114	DS16NA	1114	DS97	1122
DDAY103001	1104	(EQA02-05(D))	565	DI-8(COURIER)	542	DM7490AN	1808	DR626	1103	DS16NB	1104	DS97(DELCO)	1122
DDAY126001	542	DFQA02-05D	562	DI-8(DIODE)	1123	DM7490J	1808	DR648	1104	DS16NC	1104	DS97	362
DDBY002001	1104	DFRA81-004	1165	DI-20	1123	DM7490N	1808	DR652	1122	DS-16ND	1104	DS104	1122
DDBY003001	2023	DFRB12-01	1104	DI-25	1104	DMMA4051-M	565	DR863	1104	DS16ND	1104	DS-107	565
DDBY003002	2023	DFRB12-02	1114	DI425	1104	DMMA4051-M	565	DR900	1114	DS-16NE	1104	DS-108	563
DDBY003003	2023	DFRC04-02	1114	DI-46	1104	DMMA4091-M	562	DR1000	1114	DS16NE	1104	DS-113	1122
DDBY004001	2023	DFG1A2	1102	DI46	1104	DND800	1122	DR1100	1104	DS-16NY	1104	DS-117	1122
DDBY007002	2023	DFG1A4	1103	DI-525	1104	DNRD5.1E-B3	565	DR5101	1104	DS-16YA	1104	DS117	1122
DDBY008001	2023	DFG1A6	1104	DI525	1104	DNRD5.1E-B3(RD5.1E-B3)	561	DR5102	1104	DS17(ADMIRAL)	1104	DS118A	1143
DDBY201003	2009	DFG1A8	1114	DI-55	1104	(F)B3	565	DR-104532	1000	DS-17(SANYO)	1104	DS118B	1144
DDBY214002	2058	DFG2A2	1114	DI-58	1104	DNRD6.2E	561	DRA01B	1067	DS-17-6A	1104	DS-130	1104
DDBY219001	2058	DFG2A4	1114	DI56	1104	DNRD6.2E(RD6.2E(B2))	561	DRA01C	1067	DS17N	1104	DS130A	1114
DDBY222002	2009	DFG2A6	1114	DI-71	1104		561	DRA01E	1020	DS-18	1104	DS-130B	1104
DDBY224001	2009	DFG2A8	1114	DI-725	1104	DNRD6.2E(RD6.2E(B3))	561	DRA03A	1067	DS18	1101	DS130B	1104
DDBY224003	2009	DFH10G-KB4	1104	DI725	1104		561	DRA03B	1067	DS-18(GE)	1104	DS-130C	1104
DDBY224004	2009	DFH10GKB4	1104	DI-1725	1104	DNRD6.2E-B1-B3	561	DRA03C	1067	DS-18(SANYO)	1104	DS130C	1104
DDBY224006	2009	DFH1-005	1104	DI-645	1104	DNRD6.2E-B2	561	DRA03D	1020	DS18(SEARS)	1104	DS130D	1104
DDBY228001	2020	DG1K	1114	DI645	1104	DNRD6.2E-B2(GEA.6.2)	561	DRA03E	1020	DS18N	1104	DS-130E	1104
DDBY233001	2009	DG1M	1104	DI-646	1104	(E)B2	561	DRA2A	1067	DS19	1102	DS130E	1104
DDBY259001	2009	DG1MR	1104	DI646	1104	DNRD6.2E-B3	561	DRA2B	1067	DS-19(RECTIFIER)	1104	DS130NA	1114
DDBY259002	2009	DG1N40	1123	DI-447	1104	DNRD6.2L	561	DRA2C	1067	DS-19(SANYO)	1104	DS130NA	1104
DDBY261002	2016	DG1PR	1104	DI-448	1104	DQ31	2005	DRA2E	1020	DS-27	1123	DS130NC	1104
DDBY262001	2009	DG1S24	1123	DI-449	1104	DD57	2016	DRA3E	1067	DS27	1123	DS130ND	1104
DDBY269001	2016	DG1S188	1123	DI-650	1114	DO88	2016	DRB3B	1067	DS31	1122	DS130NE	1104
DDBY273001	2009	DG1S188-FM	1123	DI650	1114	DP13800-2	1151	DRB3C	1067	DS31(DELCO)	1123	DS130T	1114
DDBY277002	2009	DG2-006	1104	DI-705	1104	DP13801-2	1171	DRB3E	1020	DS-32	1123	DS130TA	1114
DDBY278001	2020	DGA5	1122	DI-1649	1104	DP13804-2	1173	DR51	1104	DS32	1123	DS-130TA-L	1104
DDBY278002	2020	DGDS135D	1102	DI1649	1104	DP100	1114	DRS2	1114	DS-33	1123	DS130TA-L	1104
DDBY283001	2016	DGDS135E	1104	DICR1	1114	DR1	1104	DRS101	1104	DS33	1123	DS130TAL-FB2	1104
DDBY287001	2016	DGDS442	1122	DID	1114	DR1PR	1104	DRS102	1104	DS33(DELCO)	1123	DS-130TA-S	1104
DDBY295002	2016	DGDS442X	1122	DID9442X	1123	DR2	1104	DRS104	1104	DS-38	1122	DS130TB	1114
DDBY299001	2009	DGGMA01	1122	DID5448-FA1	1122	DR3	1104	DRS106	1104	DS38(SANYO)	1104	DS130TC	1114
DDBY301001	2009	DGGMA01-L	1122	DIE	1104	DR4	1104	DRS107	1114	DS-39	1123	DS130TD	1114
DDBY407001	2020	DGGZA5.1-X	565	DJ	1104	DR5	1104	DRS108	1114	DS39	1123	DS130TE	1114
DDBY407004	2020	DGGZA5.1-X(GZA5.1(X))	565	DJ61224	1123	DR50	1104	DRS110	1114	DS-43	562	DS-130YB	1104
DDBY410001	2009	DGGZA5.1-X(GZA5.1(Y))	565	DJ70486	1122	DR100	1104	DS-0065	1104	DS43	562	DS130YC	1104
DDBY410002	2009	DGGZA5.1-X(GZA5.1(Z))	565	DJ70488	1104	DR128	1123	DS0065	1104	DS-44	2009	DS130ZE	1104
DDBY4233001	2016	(Y)	565	DJ70542	1123	DR200	1104	DS1	1104	DS44	1617	DS-731	1104
DDCY001002	2035	DGGZA5.1-Y(GZA5.1(Z))	565	DJ70543	1123	DR202	1104	DS1B	1617	DS-45	2009	DS131	1104
DDCY002002	2035	DGGZA5.1-Z	565	DJ70544	1104	DR204	1103	DS-1K	1114	DS45	1617	DS-131A	1104
DDCY007002	2023	DGGZA5.1X	565	DJ70545	1122	DR206	1104	DS1K	1104	DS46	2009	DS131A	1104
DEE-201	1104	DGGZA5.1X(GZA5.1(Y))	565	DJ70644	1123	DR207	1123	DS1K7	1104	DS46	1617	DS-131B	1104
DEEY021001	1808	(Y)	565	DJ70645	1123	DR208	1114	DS-1M	1104	DS-47	1617	DS131B	1104
DDEY030001	1801	DGGZA5.1Y	565	DJ70646	1123	DR209	1122	DS1M	1104	DS47	1617	DS132	1104
DDEY058001	2411	DGGZA6.2	561	DJ70695	1104	DR210	1114	DS1N	1104	DS48	562	DS132A	1104
DDEY084001	2411	DGGZA6.2(GZA6.2(X))	561	DJ71273	1122	DR213	1122	DS-1P	1104	DS58(SANYO)	1104	DS-132B	1104
DDEY089001	2411	DGGZA6.2(GZA6.2(Y))	561	DJ71711	1122	DR283	1123	DS1P	1104	DS-66	1617	DS132B	1104
DDMV-1	1123	DGGZA6.2(GZA6.2(Z))	561	DJ71776	1123	DR291	1123	DS-1U	1101	DS66	1617	DS133A	1104
DEE-2	1104	DGGZA6.2-X(GZA6.2(Y))	561	DJ71778	1123	DR300	1104	DS-1.5-2	1114	DS-66W	2009	DS135	1102
DEE-3	1104	DGGZA6.2-X(GZA6.2(Z))	561	DJ71895-1	1122	DR301	1122	DS2K	1104	DS-67	1617	DS135C	1104
DEE-4	1104	DGGZA6.2-X(GZA6.2(Y))	561	DJ71938	1104	DR303	1123	DS2M	1114	DS67	1617	DS135C-AT	1102
DEE-5	1104	DGGZA6.2-X(GZA6.2(Z))	561	DJ71959	1104	DR307	1123	DS-2N	1114	DS-67W	2009	DS135D	1102
DEE-6	1104	DGGZA6.2-X(GZA6.2(Y))	561	DJ71960	1122	DR314	1123	DS2N	1104	DS67W	1617	DS135E	1104
DEE-7	1104	DGGZA6.2-X(GZA6.2(Z))	561	DJ72164	1122	DR310	1123	DS2N22	1104	DS-71	2016	DS135F	1104
DEE-8	1104	DGGZA6.2-X(GZA6.2(Y))	561	DJ72165	562	DR319	1123	DS2P	1144	DS71	2016	DS130	1114
DEE-9	1104	DGGZA6.2-X(GZA6.2(Z))	561	DJ72166	1123	DR326	1123	DS5BN-L	1104	DS-72	2016	DS130A	1114
DEE-10	1104	DGGZA6.2-X(GZA6.2(Y))	561	DJ72168	1104	DR327	1122	DS-10	1104	DS72	2016	DS130B	1114
DEE-11	1104	DGGZA6.2-X(GZA6.2(Z))	561	DJ72172	562	DR329	1123	DS-13	1114	DS-73	2016	DS130C	1114
DEE-12	1104	DGGZA6.2-X(GZA6.2(Y))	561	DJ72292	1114	DR330	1123	DS-13(COURIER)	1104	DS73	2016	DS139	561
DEE-13	1104	DGGZA6.2-X(GZA6.2(Z))	561	DJ72293	561	DR338	1120	DS-13A(SANYO)	1104	DS-74	2016	DS140(S.E.)	1104
DEE-14	1104	DGGZA6.2-X(GZA6.2(Y))	561	DJ72294	1123	DR351	1123	DS13B	1144	DS74	2016	DS220R	1104
DEE-15	1104	DGGZA6.2-X(GZA6.2(Z))	561	DK	1114	DR352	1123	DS-13B(SANYO)	1104	DS-75	2009	DS320A	1104
DEE-16	1104	DGGZA6.2-X(GZA6.2(Y))	561	DL	1104	DR365	1123	DS-14(DIODE)	1104	DS75	2016	DS320B	1104
DEE-17	1104	DGGZA6.2-X(GZA6.2(Z))	561	DS-15	1104	DR366	1123	DS-14A(SANYO)	1101	DS-76	1617	DS-410	1122
DEE-18	2041	DGGZA6.2-X(GZA6.2(Y))	561	DS15	1104	DR385	1123	DS13A	1114	DS76	1617	DS410	1122
DEE-19	1104	DGGZA6.2-X(GZA6.2(Z))	561	DK19	1122	DR389	1123	DS15B	11				

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DS410(COURIER)	1122	DT1112	2030	DX-0253	1123	E0102YD	1067	E656	1122	E3006	1104	EA15X96	1617
DS410(EMERSON)	1122	DT1120	2030	DX-0255	1122	E0704-W	1104	E750(ELCOM)	1104	E4676B	1104	EA15X101	1617
DS410(FANON)	1122	DT1121	2030	DX-0270	1122	E-0704W	1104	E752(ELCOM)	1104	E7441	1104	EA15X102	2030
DS410(G.E.)	1123	DT1122	2030	DX-0273	1122	E0704W	1144	E756(ELCOM)	1104	E9625	2058	EA15X103	1617
DS-410(MOTOROLA)		DT1311	2030	DX-0287	1122	E0771-3	562	E758(ELCOM)	1114	E10116	1104	EA15X103CL	2009
	1617	DT1321	2030	DX-0299	1122	E0771-7	563	E760(ELCOM)	1114	E10157	1104	EA15X111	1617
DS410(OLYMPIC)	1122	DT1510	2030	DX-0349	1104	E0788-C	1104	E842	2016	E10171	1104	EA15X112	1617
DS410(WESTINGHOUSE)		DT1511	2030	DX-0398	565	E0788C	1104	E843	2016	E10172	1104	EA15X113	2016
	1122	DT1512	2030	DX-0402	562	E03155-001	1104	E844	2016	E21135	1123	EA15X122	1122
DS410R	1122	DT1520	2030	DX-0403	563	E03155-002	1104	E1010	1104	E21430	1123	EA15X126	565
DS410R(G.E.)	1123	DT1521	2030	DX-0408	561	E1	1104	E1011	1104	E21431	561	EA15X130	2058
DS-430	1104	DT1522	2030	DX-0445	1102	E1A	2016	E1018N	1104	E24100	1104	EA15X130A	2016
DS430	1104	DT1610	1617	DX-0475	1104	E1A3	1101	E1031RT	1123	E24101	1114	EA15X131	2016
DS441	1122	DT1621	2030	DX-0530	561	E1CM-0060	705	E1031RXT	1123	E24103	1617	EA15X131A	2016
DS-442	1122	DT4011	2041	DX-0543	1122	E1M3	1114	E1121R	1122	EA000-13000	2411	EA15X132	2016
DS442	1122	DT4110	2041	DX-0721	1114	E1N3	1114	E1124	1104	EA005	1104	EA15X132L	2016
DS442FM	1122	DT4111	2041	DX-0725	1114	E2	1104	E1138R	1122	EA0013	2016	EA15X134	2016
DS442X	1122	DT4120	2041	DX-0728	562	E-25C536AG-SP	2009	E1143RD	1114	EA0015	1104	EA15X134L	2016
DS442X-BT	1122	DT4121	2041	DX-0987	565	E-25C536E-NP	2009	E1146J	1104	EA0016	1104	EA15X135	2016
DS443	1122	DTA2B	1000	DX520	1104	E-25C930D-NP	2016	E1146R	1104	EA0031	1104	EA15X135L	2016
DS446	1122	DTA2C	1000	DX-1039	1104	E-25C930E-NP	2016	E1153RB	1104	EA0081	2030	EA15X136	1617
DS448	1122	DTA2E	1000	DX1039	1104	E-25C1923-0	2058	E1156RD	1104	EA0090	2030	EA15X137	2009
DS448-FA1	1122	DTA3C	1000	DX-1139	1122	E-25D734G	2009	E1157RNA	1104	EA0091	2016	EA15X142	1617
DS448FA1	1122	DTA3E	1000	DX-1161	1104	E3	1104	E1158ZA	561	EA0092	1617	EA15X143	1617
DS452	1104	DTA8C	1000	DX-1163	563	E5	1104	E1176R	1122	EA0093	2016	EA15X144	2030
DS454	1104	DTA10C	1000	DX-1165	1020	E6	1104	E1221R	1122	EA0094	2016	EA15X152	2016
DS-509	2041	DT5013	2055	DX1193	565	E8	1114	E1229R	1122	EA0095	2016	EA15X153	1617
DS509	2041	DT5-0713	2055	DX1194	561	E9	1114	E1237RF	1104	EA01-07R	564	EA15X157	2009
DS-512	2030	DT50713	2055	DX-1229	1114	E10	1114	E1256R	1122	EA010	1104	EA15X160	2017
DS512	2030	DT5-403	2055	DX-1325	1123	E13-000-03	1617	E1270R	1104	EA020	1104	EA15X161	2016
DS-513	2020	DT5-409	2055	DX-1535	564	E13-000-04	1617	E1286R	1122	EA030	1104	EA15X162	1617
DS513	2020	DT5-431	2055	DX-1662	1114	E13-001-02	2023	E1304R	1114	EA040	1104	EA15X163	1617
DS-514	2041	DT5-431M	2055	DX-1692	1173	E13-001-03	2023	E1308R	1104	EA050	1104	EA15X165	2035
DS514	2041	DT5701	2055	DX-1912	1104	E13-001-04	2023	E1315R	1114	EA060	1104	EA15X167	1617
DS-519	2041	DT5-702	2055	DX-1993	565	E13-002-03	1617	E1324R	1122	EA080	1114	EA15X168	2030
DS519	2041	DT5702	2055	DX-2230	1122	E13-003-00	1617	E1332R	1122	EA0X12	2020&27	EA15X169	2035
DS-781	2016	DT5-704	2055	DX-2231	565	E13-003-01	1617	E1339R	1104	EA15X1	1617	EA15X171	1122
DS1488J	2520	DT5704	2055	DX-2232	1102	E13-004-00	2009	E1410	1104	EA15X9	1617	EA15X172	1122
DS1488N	2520	DT5-708	2055	DX-2272	1122	E13-005-02	1617	E1411	1104	EA15X14	1114 N1	EA15X180	2009
DS1489AJ	2521	DT5-709	2055	DX-2273	1104	E13-006-02	2023	E1412	1104	EA15X18	1617	EA15X185	2023
DS1489AN	2521	DT5-710	2055	DX-2274	1104	E13-009-00	2055	E1412R	1104	EA15X18CL	2009	EA15X189	2009
DS1489J	2521	DT5-712	2055	DX-2275	1104	E13-013-03	1101	E1413	1104	EA15X20	1617	EA15X190	2009
DS1489N	2521	DT5-714	2055	DX-2276	1103	E13-013-04	1101	E1413R	1104	EA15X22	1617	EA15X192	2035
DS5295G	1104	DT5-723	2055	DX-2277	1104	E13-017-01	1122	E1415	1104	EA15X24	1617	EA15X194	2023
DS5295J	1104	DT5802	2055	DX-2277(,RH15)	1104	E13-020-00	1104	E1428R	1104	EA15X31	1617	EA15X213	2016
DSA010	1122	DT5804	2055	DX-2281	1020	E13-021-03	1101	E1440	1104	EA15X37	1617	EA15X233	2023
DSA015	1122	DT53704	2055	DX-2306	563	E13-20-00	1104	E1442R	1104	EA15X44	1617	EA15X237	1617
DSA1A1	1104	DT53704A	2055	DX2321	1114	E14C350	1104	E1490R	1104	EA15X44P	2016	EA15X238	2035
DSA1A2	1102	DT53704B	2055	DX2322	1123	E20C30	1123	E1518R	1104	EA15X45	1617	EA15X239	2016
DSA1A4	1103	DU400	1104	DX2327	1122	E21	1104	E1533R	1104	EA15X45CL	2016	EA15X240	2009
DSA10G	1114	DU600	1104	DX-2617	1104	E25C5	1104	E1534R	1104	EA15X45P	2016	EA15X241	2016
DSA10J	1114	DU800	1114	DX6873	1123	E30C60	1123	E1598R	1122	EA15X48	2016	EA15X242	2023
DSA10L	1114	DU1000	1114	DY155131	1122	E-41	1104	E1616R	1104	EA15X49	2016	EA15X245	2016
DSA12B	1114	DU4340	2035	DY155133	1122	E41	1104	E1645Z	563	EA15X50	2016	EA15X248	2017
DSA12C	1114	DX-0007	1101	DYDAN201VA	1122 N2	E101	2062	E1660Z	565	EA15X51	2016	EA15X249	2009
DSA12E	1114	DX-0022	1122	DYDAP201VA	1122 N2	E102	2062	E1704R	1114	EA15X52	1617	EA15X251	2009
DSA12G	1114	DX0022	1122	DYMTZ5.1-B(,MTZ5.1(B))		E102(ELCOM)	1104	E1720R	1114	EA15X54	2016	EA15X256	2009
DSA12J	1114	DX0038CE	1103		565	E103	2035	E1725RM	1104	EA15X55	2016	EA15X258	2016
DSA12L	1114	DX-0079	1122	DYMTZ5.1-C	565	E106(ELCOM)	1104	E1750Z	561	EA15X55P	2016	EA15X259	2016
DSA17B	1114	DX-0080	1122	DYMTZ6.2-C	561	E108	1114	E1775R	1122	EA15X56	1617	EA15X264	2016
DSA17C	1114	DX-0081	1122	DYMTZ9.1-C	562	E108(ELCOM)	1114	E1779R	1104	EA15X56CL	2020	EA15X267	1617
DSA17E	1114	DX0085TA	1104	DZ9A4	2023	E125C200	1104	E1786R	1104	EA15X57	2030	EA15X272	2009
DSA26B	1114	DX0086CE	1104	DZ-12	563	E135	1104	E1789R	1102	EA15X58	1617	EA15X288	2016
DSA26C	1114	DX0086TA	1104	DZ-12A	563	E143	1104	E1791R	1104	EA15X59	1617	EA15X325	2009
DSA26E	1114	DX-0087	562	DZ12A	563	E146	1104	E1791R(,ERB43-04)	1104	EA15X60	2009	EA15X327	2020
DSA150	1122	DX-0099	1104	DZ-15A	564	E150L	1104	E1794R	1104	EA15X63	1617	EA15X328	2027
DSB010	1122	DX0101CE	1104	DZ15A	564	E-185B121712	2030	E1794R(,C44-04)	1104	EA15X63CL	2009	EA15X330	1617
DSB015	1122	DX0105TA	1104	DZB6.2	561	E201	2035	E1829R	1114	EA15X68	1617	EA15X331	1617
DSBN-1	1104	DX0110CE	1102	DZB9.1	562	E202	1114	E1852	563	EA15X72	1617	EA15X333	2020
DSC010	1122	DX0115CE	1104	DZB12	563	E202(ELCOM)	1114	E2430	1617	EA15X73	1617	EA15X334	2027
DSD010	1122	DX0123CE	1104	DZB12C	563	E203	2035	E2431	1617	EA15X75	1617	EA15X335	2009
DSF10A	1101	DX0125CE	1104	DZB15	564	E210	2009	E2434	2016	EA15X75CL	2009	EA15X336	2016
DSF10B	1104	DX0126CE	1104	E0018	1123	E211	2062	E2435	2016	EA15X76	1617	EA15X350	2009
DSF10C	1102	DX0130CE	1104	E09-306112	1122	E212	2009	E2436	1617	EA15X76CL	2009	EA15X351	2058
DSF10E	1103	DX0131CE	1104	E-075L	1104	E213	2023	E2441	2030	EA15X77	1617	EA15X352	2016
DSF10G	1104	DX0142CE	1122	E075L	1104	E230	2035	E2444	1617	EA15X77CL	2009	EA15X353	2009
DS-IM	1104	DX0153CE	1104	E0100AD	1067	E231	2035	E2449	2030	EA15X83	1617	EA15X354	2009
DSS953	1122	DX0154CE	1102	E0100FD	1067	E262	563	E2452	1617	EA15X84	1617	EA15X355	2016
DS516685	1123	DX0155CE	1102	E0100YD	1067	E295ZZ01	1123	E2454	1617	EA15X84CL	2009	EA15X360	2009
DSZ3009	562	DX-0156	1123	E0102AA	1067	E300	2035	E2455	1617	EA15X85	1617	EA15X361	2016
DSZ3012	563	DX-0161	1123	E0102AB	1067	E300L	1104	E2459	1617	EA15X85CL	2009	EA15X364	2009
DT161	1617	DX-0162	1123	E0102AD	1067	E302(ELCOM)	1143	E2461	1617	EA15X86	1617	EA15X365	2009
DT230A	1122	DX0181CE	1104	E0102FA	1067	E304	2035	E2484	1123	EA15X90	2009	EA15X367	2009
DT230F	1122	DX0202CE	1104	E0102FB	1067	E304(ELCOM)	1144	E2486	561	EA15X91	1617	EA15X370	1617
DT230G	1122	DX0204CE	1122 N3	E0102FD	1067	E305	2035	E2496	2020	EA15X94	2016	EA15X371	2009
DT1110	2030	DX0206	1104	E0102YA	1067	E500L	1104	E2497	1617	EA15X94CL	2016	EA15X373	200

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EA15X376	2016	EA15X7737	2023	EA16X477	1122	EA2604	2016	EC106D1	1020	ECG319	2009	ECG5422	1067
EA15X378	2065	EA15X8118	2027	EA16X504	1123	EA2605	2016	EC106D2	1020	ECG319P	2009	ECG5423	1067
EA15X379	2058	EA15X8119	2020	EA16X506	1104	EA2606	1123	EC106F1	1067	ECG331	2020	ECG5431	1067
EA15X385	2023	EA15X8124	2020	EA16X4532	2009	EA2607	1122	EC106F2	1067	ECG340	2009	ECG5432	1067
EA15X386	2016	EA15X8126	2043	EA33X8389	705	EA2738	2016	EC106M2	1067	ECG377	2020	ECG5433	1067
EA15X393	2016	EA15X8130	2027	EA33X8396	705	EA2739	1617	EC106Y1	1067	ECG451	2062	ECG5452	1067
EA15X395	2023	EA15X8502	1617	EA33X8468	1723	EA2740	2009	EC106Y2	1067	ECG457	2062	ECG5453	1067
EA15X400	2035	EA15X8511	1617	EA33X8469	1740	EA2741	1104	EC107A1	1067	ECG507	1101	ECG5454	1067
EA15X401	2035	EA15X8515	1617	EA33X8479	007	EA2770	1617	EC107A2	1067	ECG519	1122	ECG5455	1067
EA15X404	2009	EA-15X8517	2030	EA33X8548	1731	EA2770(N)	2009	EC107B1	1067	ECG524V13	568	ECG5456	1020
EA15X408	2009	EA15X8518	2009	EA50X12	2020#27	EA2771	2016	EC107B2	1067	ECG552	1104	ECG5457	1020
EA15X413	2009	EA15X8519	2009	EA57X1	1104	EA2812	2016	EC107D1	1020	ECG778	030	ECG5473	1020
EA15X415	2016	EA15X8520	2009	EA57X3	1104	EA3127	1123	EC107D2	1020	ECG778A	038	ECG5511	1067
EA15X421	2023	EA15X8523	2009	EA57X4	1104	EA3149	1617	EC107F1	1067	ECG823	1731	ECG5512	1020
EA15X437	2058	EA15X8525	2009	EA57X8	1104	EA3211	1104	EC107F2	1067	ECG832	1721	ECG5600	1000
EA15X441	2009	EA15X8529	1617	EA57X10	1104	EA3278	2035	EC107M2	1067	ECG834	1721	ECG5601	1000
EA15X461	2016	EA15X8576	2009	EA57X11	1104	EA3406	2016	EC107Y1	1067	ECG858M	1715	ECG5602	1000
EA15X483	2058	EA15X8589	2016	EA57X14	1102	EA3447	1122	EC107Y2	1067	ECG876	1705	ECG5603	1000
EA15X488	2009	EA15X8601	2009	EA75X1	1104	EA3674	1104	EC401	2017	ECG923D	1740	ECG5604	1000
EA15X524	2016	EA15X8602	2009	EA100	1114	EA3713	2058	EC402	1104	ECG941M	007	ECG5605	1000
EA15X525	2020	EA15X8608	2016	EA1072	1104	EA3714	2023	ECG2V130	570	ECG955M	1723	ECG5608	1000
EA15X1014	2009	EA15X8609	2016	EA1080	1617	EA3715	2027	ECG16	2016	ECG956	1778	ECG5629	1000
EA15X1117	2009	EA15X8610	2016	EA1123	1123	EA3716	2020	ECG17	2023	ECG960	1770	ECG5633	1000
EA15X1422	2016	EA16X1	1123	EA1128	1617	EA3718	1123	ECG18	2009	ECG966	1771	ECG5640	1000
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EA15X2015	2016	EA16X4	563	EA1135	1617	EA3763	2016	ECG107	2016	ECG978	1728	ECG5642	1000
EA15X2024	2016	EA16X5	1123	EA1145	1617	EA3827	1104	ECG108	2016	ECG987	1711	ECG5643	1000
EA15X2025	2016	EA16X6	563	EA1318	563	EA3866	562	ECG109	1123	ECG1155	705	ECG5651	1000
EA15X2110	2009	EA16X8	1104	EA1343	2016	EA3989	1104	ECG110	1123	ECG1232	703	ECG5652	1000
EA15X2112	2009	EA16X9	1123	EA1344	1617	EA4025	2016	ECG110A	1123	ECG2164	2506	ECG5800	1141
EA15X3118	2027	EA16X11	1123	EA1345	1617	EA4055	2017	ECG110MP	1123	ECG2764	1251	ECG5801	1143
EA15X4064	2016	EA16X13	1104	EA1405	1122	EA4085	1101	ECG114	1101	ECG3007	026	ECG5802	1143
EA15X4152	2016	EA16X16	563	EA1406	1617	EA4112	1617	ECG115	1101	ECG3012	033	ECG5803	1144
EA15X4335	2009	EA16X20	1122	EA1407	1617	EA5711	1104	ECG116	1104	ECG3022	041	ECG5804	1144
EA15X4532	1617	EA16X21	1104	EA1408	1617	EA500-11300	2068	ECG117A	1114	ECG3026	025	ECG7400	1801
EA15X4810	2009	EA16X22	1123	EA1448	1104	EA500-11300(,25D8378)	ECG120	1101	ECG3030	036	ECG7401	1801	
EA15X4812	2009	EA16X27	1123	EA1451	1617		2068	ECG123	1617	ECG3047	134	ECG7404	1802
EA15X5939	2009	EA16X29	563	EA1452	1617	EA500-12000	2068	ECG123A	1617	ECG3056	075	ECG7408	1822
EA15X7112	1617	EA16X30	1104	EA1499	1104	EA500-13400	2009	ECG123AP	2009	ECG3061	053	ECG7447	1805
EA15X7113	2016	EA16X33	1104	EA1549	2030	EA500-17400	2068	ECG125	1114	ECG3115	081	ECG7490	1808
EA15X7114	2016	EA16X34	1104	EA1562	2016	EA500-17500	2009	ECG128	2030	ECG3131	030	ECG75188	2520
EA15X7115	1617	EA16X39	1122	EA1563	2016	EA500-17500	ECG130	2041	ECG4001	2401	ECG75189	2521	
EA15X7117	2016	EA16X48	1123	EA1564	1617	(,25C2458F)	2009	ECG132	2035	ECG4001B	2401	ECR-600-2	1104
EA15X7118	1617	EA16X49	1122	EA1578	1617	EA500-07100	2023	ECG133	2035	ECG4011	2411	ECR600-2	1104
EA15X7119	1617	EA16X54	1104	EA1581	1617	EA500-09500	2023	ECG135	565	ECG4011B	2411	ED0031	1104
EA15X7120	1617	EA16X55	1104	EA1628	1617	EA500-09500	1617	ECG135A	565	ECG4013	2413	ED0032	1122
EA15X7121	2020	EA16X60	1122	EA1629	1617	(,25A950-0)	2023	ECG137	561	ECG4013B	2413	ED0039	564
EA15X7125	2016	EA16X61	1122	EA1630	1617	EAC00-00400	1122	ECG137A	561	ECG4017	2417	ED0056	1104
EA15X7136	2058	EA16X62	562	EA1638	1617	EAC00-00600	1102	ECG139	562	ECG4017B	2417	ED0059	1104
EA15X7137	2023	EA16X71	1104	EA1661	1122	EAC00-09300	1122 N2	ECG139A	562	ECG4049	2449	ED0109E	561
EA15X7140	2016	EA16X75	1122	EA1672	1104	EACT0-00300	1122	ECG141	563	ECG4049B	2449	ED0120	1103
EA15X7141	2016	EA16X77	563	EA1684	2030	EACT0-00400	1122	ECG141A	563	ECG4066B	2466	ED0173	1114
EA15X7173	2009	EA16X80	561	EA1695	1617	EACT0-00400(,152473)	ECG142	563	ECG5009	565	ED0214F	561	
EA15X7174	2009	EA16X82	562	EA1696	1617		1122	ECG142A	563	ECG5009A	565	ED-4	1104
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EA15X7176	1617	EA16X91	1122	EA1698	2030	EAD00-10100	565	ECG145A	564	ECG5010A	565	ED4[ELCOM]	1123
EA15X7177	2016	EA16X92	1101	EA1703	1617	EAD00-10400	565	ECG152	2020	ECG5013	561	ED-5	1104
EA15X7178	2009	EA16X94	1122	EA1716	1617	EAD00-15100	564	ECG153	2027	ECG5013A	561	ED5	1104
EA15X7179	2009	EA16X95	1122	EA1718	1617	EAD00-20200	561	ECG156	1114	ECG5017	562	ED-6	1104
EA15X7215	2016	EA16X97	1123	EA1733	2016	EAQ00-02000	1802	ECG159	2023	ECG5017A	562	ED6	1104
EA15X7221	2016	EA16X101	1122	EA1735	1617	EAQ00-11100	1723	ECG159MCP	2009#23	ECG5018	562	ED6[ELCOM]	1123
EA15X7231	2016	EA16X105	1122	EA1740	2041	EAQ00-11100	2041	ECG161	2016	ECG5018A	562	ED6.2EB	561
EA15X7232	1617	EA16X110	1122	EA1778	2009	(,HA17555PS)	1723	ECG164	2055	ECG5021	563	ED7	1104
EA15X7233	2058	EA16X122	1122	EA1793	2016	EAS00-00700	1770	ECG165	2055	ECG5021A	563	ED8[ELCOM]	1114
EA15X7234	2050	EA16X124	564	EA1872	1617	EAS00-00700(,UPC7805)	ECG166	1171	ECG5024	564	ED9	1123	
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EA15X7236	2058	EA16X134	1122	EA2131	2016	EA500-05800	1712	ECG177	1122	ECG5069	565	ED10[ELCOM]	1123
EA15X7242	2058	EA16X135	1122	EA2132	2016	EA500-05800	ECG178MP	1122	ECG5069A	565	ED11[ELCOM]	1123	
EA15X7243	2016	EA16X136	565	EA2137	1123	(,TA75339P)	1712	ECG186	2017	ECG5070	561	ED12[ELCOM]	1123
EA15X7244	2058	EA16X140	1123	EA2140	1104	EA500-06100	038	ECG196	2020	ECG5070A	561	ED29[ELCOM]	1114
EA15X7245	2016	EA16X144	565	EA2271	1617	EAS00-09300	007	ECG199	2016	ECG5073	562	ED31[ELCOM]	1122
EA15X7262	2009	EA16X146	1122	EA2429	2016	EAW00-00700	2035	ECG219	2043	ECG5073A	562	ED32[ELCOM]	1122
EA15X7263	2016	EA16X148	1123	EA2488	2017	EAX5X249	2009	ECG223	2041	ECG5304	1173	ED46	1123
EA15X7264	2016	EA16X149	1144	EA2489	1617	EB1[ELCOM]	1171	ECG229	2058	ECG5400	1067	ED-60	1123
EA15X7514	1617	EA16X150	562	EA2490	1617	EB2[ELCOM]	1173	ECG233	2009	ECG5401	1067	ED60	1123
EA15X7517	1617	EA16X152	1122	EA2493	2009	EB3[ELCOM]	1171	ECG234	2023	ECG5402	1067	ED150Z	1617
EA15X7583	2016	EA16X162	563	EA2494	2009	EB6[ELCOM]	1173	ECG238	2055	ECG5403	1067	ED592K	2058
EA15X7586	1617	EA16X171	1122	EA2495	2009	EB9[ELCOM]	1171	ECG241	2020	ECG5404	1067	ED592M	2016
EA15X7587	2016	EA16X402	562	EA2496	2016	EB11[ELCOM]	1173	ECG261	2068	ECG5405	1020	ED-1402	1617
EA15X7588	2009	EA16X421	561	EA2499	1104	EC800	1114	ECG280	2041	ECG5408	1067	ED1402A	1617
EA15X7589	2009	EA16X441	1123	EA2500	563	EC100	1114	ECG281	2043	ECG5409	1020	ED1402A/09-30506	2009
EA15X7590	1617	EA16X442	1122	EA2501	1124	EC103D	1020	ECG289	2009	ECG5411	1067	ED1402A/09-305066	
EA15X7635	2030	EA16X446	1122	EA2502	1103	EC103Y	1067	ECG289A	2009	ECG5412	1067		1617
EA15X7631	1617	EA16X462	565	EA2600	2016	EC106A1	1067	ECG290	2023	ECG5413			

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ED1502	2016	ED224548	1104	ELM107	2016	EN706	1617	EP15X95	2035	EPX68	564	EQF-3	2035
ED1502A	2058	ED224550	1104	ELM108	2016	EN708	1617	EP15X97	2020	EQ-09R	562	EQF-4	2035
ED1502B	2009	ED302379	1122	ELM109	1122	EN718A	2016	EP15X98	2058	EQ1	2062	EQG01-12A	563
ED-1502C	2058	ED329128	1104	ELM110MP	1123	EN722	2023	EP15X99	2016	EQA01-01	562	EQG-12A	563
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ED1502D	2009	ED491130	562	ELM116	1104	EN870	2030	EP15X102	2020	EQA01-05R	565	EQR-0038	2023
ED1502E	2016	ED494583	1104	ELM117	1104	EN914	1617	EP15X104	2058	EQA01-05S	565	EQS-0018	2009
ED1502F	2058	ED511097	1104	ELM120	1101	EN915	2009	EP15X106	1067	EQA01-05T	565	EQS-0061	2009
ED1502P	2058	ED514721	1122	ELM123	1617	EN916	2016	EP15X107	2023	EQA01-06S	561	EQS-0100	2009
ED1502R	2009	ED515790	1122	ELM123A	1617	EN918	2016	EP15X110	2009	EQA01-06SD	561	EQS-0102	2016
ED1602C	2023	ED516420	1122	ELM125	1114	EN930	1617	EP15X124	2035	EQA01-06T	561	EQS-0165	2009
ED1602D	2023	ED536062	1122	ELM128	2030	EN956	1617	EP15X125	2016	EQA01-09	562	EQS-0192	2009
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ED1702L/09-30506	2009	EDG-0001	1123	ELM139	562	EN2219	1617	EP15X142	2020	EQA01-067	561	EQS-5	2009
ED1702L/09-305068	1617	EDG-0003	1123	ELM142	563	EN2222	1617	EP15X143	2009	EQA01-12	563	EQS-9	2009
		EDG-0006	1123	ELM152	2020	EN2369A	1617	EP15X225	2023	EQA01-12R	563	EQS-10	2016
ED1702M	2009	EDG-0014	1122	ELM156	1114	EN2484	2016	EP15X226	2009	EQA01-12S	563	EQS-11	2016
ED1704L	2009	EDG-1	1123	ELM159	2023	EN2894	2023	EP16X1	1122	EQA01-12S1	563	EQS-18	2009
ED1802-0	2023	EDG-3	1123	ELM161	2016	EN2894A	2023	EP16X3	1123	EQA01-12Z	563	EQS-21	2016
ED1802M	2023	EDJ-363	1104	ELM164	2055	EN2907	2023	EP16X4	1122	EQA01-15	564	EQS-22	2009
ED1804	1104	EDS-0001	1122	ELM165	2055	EN3009	1617	EP16X5	564	EQA01-15R	564	EQS-61	2009
ED1892	1104	EDS-0002	1104	ELM166	1171	EN3011	1617	EP16X7	2030	EQA01-15RL	564	EQS-62	2009
ED2106	1104	EDS-0004	1102	ELM168	1173	EN3013	1617	EP16X13	1104	EQA01-15RLV	564	EQS-64	2009
ED2107	1104	EDS-0014	1122	ELM177	1122	EN3014	1617	EP16X15	1122	EQA02-05	565	EQS-66	2017
ED2108	1104	EDS-0017	1104	ELM196	2020	EN3250	2023	EP16X20	1122	EQA02-05(C)	565	EQS-67	2017
ED2109	1104	EDS-0024	1104	ELM199	2016	EN3504	2023	EP16X21	1123	EQA02-05(D)	565	EQS-78	2016
ED2110	1104	EDS-1	1122	ELM219	2043	EN3903	1617	EP16X22	1122	EQA02-05-A	565	EQS-100	2009
ED2842	1104	EDS-4	1102	ELM229	2058	EN3904	1617	EP16X23	1122	EQA02-05-B	565	EQS131	2009
ED2843	1104	EDS-11	1104	ELM234	2023	EN3905	2023	EP16X25	565	EQA02-05-D	565	EQS-139	2016
ED2844	1104	EDS-17	1104	ELM281	2043	EN3906	2023	EP16X27	1122	EQA02-05A	565	ER1	1104
ED2845	1104	E-DS18	1101	ELM519	1122	EN3962	2023	EP16X36	563	EQA02-05AB	565	ER2	1104
ED2846	1104	E-DS135D	1102	ELM5400	1067	EO704	1104	EP16X49	1122	EQA02-05CD	565	ER5(ELCOM)	1101
ED2847	1114	E-DS442	1122	ELM5404	1067	ELM5404	1122	EP16X50	1122	EQA02-05CDB	565	ER11	1104
ED2848	1114	E-DS442-VG1	1122	ELM5809	1114	EP15X1	2009	EP16X51	1122	EQA02-05D	565	ER12	1104
ED2849	1114	E-DS442VG1	1122	ELP4.7	565	EP15X2	2009	EP16X52	564	EQA02-05E	565	ER15X8	1617
ED2910	1114	E-DS442YG1	1122	ELP6.2	561	EP15X3	2016	EP16X53	1123	EQA02-05EF	565	ER15X18	1617
ED2911	1114	EDZ-0045	562	ELP9.1	562	EP15X5	2030	EP16X59	1122	EQA02-05F	565	ER21	1104
ED2912	1114	EDZ-23	562	ELP12G	563	EP15X6	2009	EP16X66	1122	EQA02-05M1	565	ER22	1104
ED2913	1114	EE5A-4.7	565	ELP14	564	EP15X6(,2SA937MRS)	2023	EP16X68	564	EQA02-06E	561	ER31	1104
ED2914	1104	EE5A-5.1	565	ELP15	564			EP16X71	1102	EQA02-06EF	561	ER41	1104
ED2915	1104	EE5A-6.2	561	ELP115G	563	EP15X6(PNP)	2023	EP16X73	565	EQA02-06F	561	ER42	1104
ED2916	1104	EE5A-9.1	562	EM01	1104	EP15X7	1104	EP16X149	1104	EQA02-09-CD	562	ER51	1104
ED2917	1104	EE5A-12G	563	EM01A	1114	EP15X8	2009	EP16X152	565	EQA02-09AB	562	ER57X2	1104
ED2918	1104	EE5A-15	564	EM01Z	1104	EP15X9	2009	EP16X153	561	EQA02-09B	562	ER57X3	1104
ED2919	1104	EE5A-115	563	EM1	1104	EP15X10	1067	EP16X154	1104	EQA02-09C	562	ER57X4	1104
ED2920	1104	EECG-1234	2009	EM1A	1114	EP15X11	2020	EP25	2023	EQA02-09CD	562	ER61	1104
ED2921	1104	EF1(ELCOM)	2035	EM1B	1114	EP15X12	2055	EP57X1	1104	EQA02-09D	562	ER62	1104
ED2922	1114	EF2(ELCOM)	2035	EM1J2	1104	EP15X14	2020	EP57X4	1104	EQA02-11C	563	ER81	1114
ED2923	1114	EF3	2035	EM1Y	1102	EP15X15	2027	EP57X10	1104	EQA02-11CD	563	ER101	1104
ED2924	1114	EF100	1114	EM-1Z	1102	EP15X17	2023	EP57X12	1104	EQA02-11CDB	563	ER102D	1104
ED3000	1104	EG01	1103	EM1Z	1102	EP15X20	2009	EP57X54	1104	EQA02-12M1	563	ER103D	1104
ED3000A	1104	EG01A	1104	EM1Z1	1104	EP15X22	2020	EP84X13	1801	EQA02-14-AB	564	ER103E	1104
ED3000B	1104	EG01Y	1104	EM-1Z5	1102	EP15X23	2027	EP84X69	038	EQA02-15A	564	ER104D	1104
ED3001	1104	EG01Z	1102	EM1ZV	1102	EP15X26	2023	EP84X119	1711	EQA02-15AB	564	ER105D	1104
ED3001A	1104	EG1	1103	EM2	1114	EP15X28	2055	EP84X217	1771	EQA02-15M	564	ER106D	1104
ED3001B	1104	EG1A	1104	EM2A	1114	EP15X30	2020	EP84X242	2417	EQA09R	562	ER107D	1114
ED3002	1104	EG1Y	1104	EM2B	1114	EP15X31	1020	EP-100	2020	EQA-0109S	562	ER108D	1114
ED3002A	1104	EG100	1104	EM401	1104	EP15X33	2030	EP200	1104	EQA0205	565	ER181	1104
ED3002B	1104	EG100H	1104	EM402	1104	EP15X37	2016	EP-276	2020	EQA0205B	565	ER182	1104
ED3003	1104	E-GZA5R1Z	565	EM403	1104	EP15X38	2016	EP276	2020	EQA0206C	561	ER183	1104
ED3003A	1104	EH1	1104	EM404	1104	EP15X39	2009	EP400	1104	EQA0212AB	563	ER184	1104
ED3003B	1104	EH-1A	1104	EM405	1104	EP15X41	2058	EP-421	2027	EQA-9	562	ER185	1104
ED3003S	1104	EHTA	1104	EM406	1104	EP15X42	2058	EP-422	2020	EQA-9	562	ER186	1114
ED3004	1104	EH-1Z	1104	EM407	1114	EP15X43	2020	EP600	1104	EQB0-06V	561	ER187	1114
ED3004A	1104	EH1Z	1104	EM408	1114	EP15X45	2055	EP-797	2020	EQB01	563	ER201	1104
ED3004B	1104	EH-1ZV	1104	EM409	1114	EP15X48	2023	EP800	1114	EQB01-05	565	ER-300	066A
ED3005	1104	EH2C11	1104	EM410	1114	EP15X52	2023	EP-801	2020	EQB01-055A	565	ER301	1104
ED3005A	1104	EH2C11/7 + 12/1	1104	EM500	1104	EP15X53	2023	EP-802	2027	EQB01-06	561	ER308	1114
ED3005B	1104	EICM-0060	705	EM501	1104	EP15X54	2009	EP-943	2027	EQB01-06V	561	ER310	1114
ED3006	1104	EK03	1165	EM502	1104	EP15X55	2016	EP 944	2020	EQB01-06Y	561	ER381	1104
ED3006A	1104	EK-04	1102	EM503	1104	EP15X57	2023	EP1080	1114	EQB01-09	562	ER401	1104
ED3006B	1104	EK04	1165	EM504	1104	EP15X57(,1473)	2023	EP1259	1104	EQB01-12	563	ER410	1104
ED3007	1114	EK04LF	1102	EM505	1104	EP15X57(,2058)	2023	EP1259-2	1104	EQB01-12A	563	ER501	1104
ED3007A	1114	EK13	1165	EM506	1104	EP15X60	2023	EP-1428-2H	1104	EQB01-12B	563	ER510	1104
ED3007B	1114	EK14	1165	EM507	1114	EP15X68	2020	EP1428-2H	1104	EQB01-12BV	563	ER601	1104
ED3008	1114	EL75	2058	EM508	1114	EP15X83	2009	EP2798	1122	EQB01-12M	563	ER801	1114
ED3008A	1114	EL131	2035	EM509	1114	EP15X85	2009	EP-3053	2020	EQB01-12R	563	ER1001	1114
ED3008B	1114	EL214	2030	EM510	1114	EP15X86	2009	EP-3149	1144	EQB01-12Z	563	ERA21-02	1102
ED3009	1114	EL231	2016	EM 021	1104	EP15X87	2009	EP3149	1104	EQB01-15	564	ERA21-04	1103
ED3009A	1114	EL232	1617	EM-1171	1104	EP15X88	2009	EP-5219-1	1101	EQB01-15Z	564	ERA21-06	1104
ED3009B	1114	EL238	1617	EMS-72272	1122	EP15X89	2009	EP-5619-2/7628	1104	EQB01-15ZB	564	ERA22-02	1102
ED3010	1114	EL403	2009	EN10	2009	EP15X90	2023	EPR9	562	EQB01-90S	562	ERA22-04	1103
ED3010A	1114	EL434	2016	EN30	2009	EP15X90(C)	1770	EPX2	2009	EQC01-10	1114	ERA22-06	1104
ED3010B	1114	EL427	2016	EN40	2009	EP15X92	2009	EPX15X17	2023	EQC04-02	1114	ERA22-08	1114
ED219464	1123	EL642	2009	EN697	1617	EP15X93	2009	EPX59	1122	EQD01-09	562	ERA81-004	

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
ERA81-004G	1102	ERCC4-06	1114	ES16X3	1123	ESK1/06	1104	ETS-063	2041	EW15X190	2023	EW181	1617
ERA82-004	1165	ERD03-03	1114	ES16X4	1122	ESK400C500	1104	ETS-068	1617	EW15X190(25D641)		EW182	1617
ERA84-009	1104	ERD03-04	1144	ES16X5	1123	ESK125C500	1114	ETS-070	2030			EW188	2027
ERB01-05	565	ERD100	1104	ES16X6	1123	ESM502	1122	ETTC-458JG	1617	EW15X215	2023	EW217	2016
ERB01-10	1114	ERD200	1104	ES16X7	1123	ESZ5.1	565	ETTC-930D	2016	EW15X215(25B642QRS)		EWQ202	2023
ERB-068	1104	ERD300	1104	ES16X8	563	ESZ6.2	561	ETTC-945	2009			EX3011GE	564
ERB11-01	1104	ERD400	1104	ES16X9	1104	ESZ9.1	562	ETTC-CD8000	1617	EW15X224	2016	EX3020GE	565
ERB12-01	1104	ERD500	1104	ES16X12	1123	ESZ12	563	ETTC-CD12000	1617	EW15X225	2020	EX3030CE	563
ERB12-01G	1104	ERD600	1104	ES16X13	1104	ET15X2	1104	ETTC-CD13000	1617	EW15X226	2009	EX3047CE	563
ERB12-01RK	1102	ERD700	1114	ES16X14	1123	ET15X3	2016	ETT-CDC-12000	1617	EW15X231	2016	EX3048CE	561
ERB12-01U4	1104	ERD800	1114	ES16X21	1123	ET15X7	2016	ETTD-235	2020	EW15X234	2009	EX3061CE	563
ERB12-02	1122	ERD900	1114	ES16X24	1122	ET15X9	2009	ETX18	2009	EW15X235	2009	EX30131CE	565
ERB12-02	1114	ERD1000	1114	ES16X25	1104	ET15X10	2009	EU01	1104	EW15X237	2027	EX30137CE	565
ERB12-02RK	1104	ERD1500	2030	ES16X27	1122	ET15X11	2009	EU01A	1104	EW15X240	2023	EX30137TA	565
ERB12-02V	1104	ERV-02F2150	1104	ES16X30	1122	ET15X12	2030	EU01Z	1104	EW15X241	2020	EX30192CE	561
ERB12-04	1114	ERZ-C14DK201	570	ES16X32	1122	ET15X13	1617	EU02A	1104	EW15X243	2009	EXC200CE	563
ERB12-04RK	1104	ERZ-C14DK201U	570	ES16X33	1104	ET15X14	1617	EU02Z	1104	EW15X254	2009	EXC217CE	564
ERB12-06	1114	ERZ-C20DK201	568	ES16X38	1104	ET15X15	1617	EU-1	1104	EW15X315	2009	EX15X336	2016
ERB12-10	1114	ERZ-C20DK201U	568	ES16X40	1122	ET15X16	1617	EU1	1104	EW15X316	2009	EX16X10	1122
ERB12-11	1104	ES-1	1104	ES16X70	1123	ET15X18	2016	EU-1A	1104	EW15X316(25D637QRS)		EX16X27	1122
ERB22-15	1104	ES1	1104	ES16X103	1123	ET15X19	2009	EU1A	1104			EX16-X	1104
ERB24-02D	1104	ES1WX122	2058	ES20(ELCOM)	1617	ET15X20	2009	EU-1AV	1104	EW15X317	2009	EX16X211-X	1123
ERB24-04	1104	ES11	2016	ES22(ELCOM)	2030	ET15X21	2016	EU-1V	1104	EW15X317(25D630QRS)		EX162-Y	1122
ERB24-04C	1104	ES13	2016	ES31(ELCOM)	2041	ET15X23	2009	EU1Z	1104			EX169-X	2009
ERB24-04C	1104	ES15X1	1617	ES34(ELCOM)	2023	ET15X24	1617	EU-2	1104	EW15X328	2020	EX500-X	2009
ERB24-04CV	1104	ES15X2	2016	ES36X103	1123	ET15X27	2009	EU2	1104	EW15X329	2023	EX695-X	2009
ERB24-04D	1104	ES15X3	2016	ES46	1617	ET15X30	2016	EU2A	1104	EW15X342	2016	EX744-X	2030
ERB24-06	1104	ES15X6	2016	ES46(ELCOM)	1617	ET15X33	2023	EU2V	1104	EW15X346	2020	EX786-X	2023
ERB24-06A	1104	ES15X7	1617	ES47X1	1104	ET15X36	2030	EU2Z	1104	EW15X428	2016	EX748-X	2009
ERB24-06B	1104	ES15X9	2023	ES47X4	1104	ET15X37	1617	EU15X1	2016	EW15X549	2016	EX888-X	2009
ERB24-06C	1104	ES15X10	2016	ES51	1104	ET15X41	1617	EU15X2	2016	EW16X12	1104	EXV20DIR5J	1123
ERB28-02	1104	ES15X11	1617	ES51X65	2030	ET15X42	1617	EU15X3	2016	EW16X22	1104	EXV20DIR5A	1104
ERB28-04	1104	ES15X12	2020	ES53(ELCOM)	1617	ET15X45	1617	EU15X6	2016	EW16X59	1102	EYV20DIR5J	1122
ERB28-04B	1104	ES15X14	1617	ES54(ELCOM)	2016	ET15X54	2009	EU15X27	2030	EW16X76	1122 N2	EYV20DIR5J	1120
ERB28-04D	1104	ES15X16	1617	ES56(ELCOM)	2030	ET16X1	1123	EU15X34	2030	EW16X92	1165	EY2163	2023
ERB28-04D	1104	ES15X18	2016	ES57(ELCOM)	2030	ET16X15	563	EU16X1	1123	EW16X102	1123	EY2P632	2009
ERB28-04DV	1114	ES15X19	2016	ES57X1	1104	ET16X19	1123	EU16X2	1123	EW16X124	561	EY2P791	2009
ERB28-06D	1104	ES15X20	1617	ES57X2	1104	ET16X20	1123	EU16X7	1104	EW16X135	1104	EY2P808	2023
ERB28-06DV	1104	ES15X22	2009	ES57X4	1104	ET16X21	1123	EU16X8	1101	EW16X160	564	EZ01	1104
ERB29-02	1104	ES15X23	1617	ES57X5	1104	ET16X37	1123	EU16X11	1122	EW16X169	1122	EZ01Z	1104
ERB35-01	1102	ES15X24	1617	ES57X12	1617	ES15X3	1617	EU16X19	1123	EW16X175	1104	EZF61	562
ERB35-01	1102	ES15X30	2016	ES62(ELCOM)	2030	ET15X26	1104	EU16X20	1104	EW16X193	1122	EZ3(ELCOM)	565
ERB43	1104	ES15X37	1617	ES65(ELCOM)	2023	ET15X25	1104	EU15X730	1104	EW16X194	1123	EZ9(ELCOM)	562
ERB43-01	1104	ES15X42	1617	ES69(ELCOM)	2041	ET15X25	1104	EU15X738	1101	EW16X196	1104	EZ12(ELCOM)	563
ERB43-04	1104	ES15X56	2016	ES70(ELCOM)	2016	ET15X25	1104	EU15X740	1104	EW16X200	1104	EZ12A	563
ERB43-04G	1104	ES15X57	2016	ES80(ELCOM)	2020	ET15X29	1104	EU-Z	1104	EW16X202	1114	EZ15(ELCOM)	564
ERB44-02	1104	ES15X58	1617	ES81(ELCOM)	2027	ET15X25	1104	EUZ	1104	EW16X205	562	EZ15A	564
ERB44-04	1104	ES15X60	2016	ES85(ELCOM)	1617	ET15X26	1101	EV-15	564	EW16X209	1114 N6	EZ150	564
ERB44-06	1104	ES15X62	1617	ES86(ELCOM)	2015	ET15X29	1104	EVD-3	1122	EW16X218	1122	FO015	2035
ERB44-10	1114	ES15X64	1617	ES90	2043	ET15X30	1104	EVM511	1104	EW16X221	1104	FO021	2035
ERB81	1114	ES15X65	2016	ES95	2055	ET15X33	1104	EVN5	561	EW16X223	565	F-05	1104
ERB1201	1114	ES15X66	2016	ES95(ELCOM)	2055	ET15X35	1104	EVN5A	561	EW16X226	1122	F05	1104
ERB4302	1104	ES15X67	2009	ES1627	1122	ET15X38	1104	EVR5B	561	EW16X227	1122	F031	1122
ERB4304	1104	ES15X68	1617	ES3266	2016	ET200	1104	EVR6	561	EW16X231	1122 N2	F046	1122
ERC-01-02	1114	ES10186	1617	ES10186	2016	ET400	1104	EVR6A	561	EW16X232	1122 N1	F040	1122
ERC01-02	1114	ES15X76	1617	ES10187	2009	ET600	1104	EVR6B	561	EW16X257	1122	F084	1122
ERC01-02F	1114	ES15X79	2016	ES10188	2009	ET35035	2023	EVR9	562	EW16X301	564	F1	2009
ERC01-02L	1114	ES15X80	2016	ES10189	1123	ET234854	2009	EVR9A	562	EW16X303	1122	F1(DIODE)	1104
ERC01-02L-12	1114	ES15X81	2016	ES10222	2009	ET238894	1617	EVR9B	562	EW16X305	1122	F1-02	1104
ERC01-02L12	1114	ES15X82	2016	ES10223	2009	ET329218	2009	EVR11	563	EW16X306	1104	F1-04	1104
ERC01-04	1114	ES15X83	1617	ES10224	1123	ET330335	2023	EVN11A	563	EW16X308	1104	F1-06	1104
ERC01-04F	1114	ES15X84	1617	ES10225	1123	ET368021	1617	EVR11B	563	EW16X309	1104	F1-08	1104
ERC01-06	1114	ES15X85	1617	ES10231	2016	ET379462	2016	EVR12	563	EW16X311	1123	F2	1104
ERC01-10	1114	ES15X86	2020	ES10232	1617	ET390711	2016	EVR12A	563	EW16X312	1104	F3	1104
ERC04-02	1114	ES15X87	2016	ES10233	1104	ET398777	2016	EVR12B	563	EW16X313	1114	F4	1104
ERC04-02F	1114	ES15X88	2016	ES10234	563	ET412626	1617	EVR15	564	EW16X314	1122 N3	F5	1104
ERC04-04	1114	ES15X90	2023	ES15046	2016	ET491051	2035	EVR15A	564	EW16X324	565	F6	1104
ERC04-04C	1114	ES15X92	2035	ES15047	2016	ET495371	2017	EVR15B	564	EW16X325	1122	F8	1114
ERC04-04F	1114	ES15X93	2030	ES15048	2009	ET517263	2016	EW15X26	2027	EW16X326	1104	F10	1114
ERC04-06	1114	ES15X94	2055	ES15049	2016	ET703844	2009	EW15X55	2023	EW16X330	563	F14	1104
ERC04-10	1114	ES15X96	2016	ES15050	1617	ET703854	2009	EW15X57	2009	EW16X334	1173	F14-C	1104
ERC05-06	1114	ES15X97	2016	ES15052	2016	ET703865	2023	EW15X58	2023	EW16X361	1122 N2	F-14A	1104
ERC05-10	1114	ES15X101	2023	ES15054	1123	ET703874	2009	EW15X59	2027	EW16X370	563	F14A	1104
ERC0402	1114	ES15X102	2016	ES15056	1104	ET703875	2023	EW15X66	2009	EW16X376	562	F14AP	1104
ERC0508	1114	ES15X103	2016	ES15057	1122	ET703894	2020	EW15X130	2016	EW16X490	1122	F14B	1114
ERC0510	1114	ES15X105	2016	ES15102	2016	ET704334	2016	EW15X135	2023	EWB4X453	1770	F14BP	1104
ERC0510V	1114	ES15X106	2009	ES15226	2030	ETD-1N60	1123	EW15X144	2023	EWB4X483	038	F-14C	1104
ERC16-06	1104	ES15X107	2023	ES15227	2017	ETD152788	1122	EW15X148	2023	EW162	2016	F14C	1114
ERC16-10	1114	ES15X119	1173	ESA-06	1173	ETD-10D1	1104	EW15X158	2009	EW163	2016	F14CP	1104
ERC24-04	1104	ES15X120	2016	ESA06	1173	ETD-10D2	1104	EW15X160	2009	EW164	2016	F14D	1114
ERC24-06	1104	ES15X121	2016	ESA10-08	1104	ETD-5046	1123	EW15X171	2009	EW165	2016	F14DF	1104
ERC24-06S	1104	ES15X122	2016	ESA10-99	1104	ETDCDG21	1122	EW15X171(25D637)		EW165V	1617	F14E	1114
ERC25-04	1104	ES15X123	2016	ESA-10C	1104	ETD-RD9.1FB	562		2009	EW166	1123	F14F	1114
ERC25-06	1104	ES15X127	2009	ESA-10N	1104	ETD-SD46	1123	EW15X172	2009	EW167	1122	F14H	1114
ERC44-04	1104	ES15X128	2020	ES1K-1	1104	ETD-SG9150	1122	EW15X172(25D626QRS)		EW168	1123	F14J	1114
ERC81-004	1114	ES16(ELCOM)	2061	ESK1									

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
F20-1002	2016	F3519	1617	FCS1168E641	2016	FD3405	1101	FM3014	2016	F532669	2016	FU1NA	1104
F20-1003	2016	F3530	2016	FCS1168F813	1617	FD6451	1122	FMPS-A20	2009	F535529	2016	FU1U	1104
F20-1004	2016	F3532	1617	FCS1168G	1617	FD6489	1122	FMPSA20	2009	F5326690	2009	FU-IM	1104
F20-1005	2016	F3535	2016	FCS1168G704	1617	FDH-9	1122	FN-51-1A	2009	F5A1169	1101	FUIU	1104
F20-1010	1123	F3559	2023	FCS1170F	2023	FDH300	1102	FO5	1104	F5A1202	1101	FV-22	561
F20-1012	1123	F3560	2030	FCS1225E	2016	FDH333	1102	FOR1A411E	1067	F5C9015D	2023	FV-23	1123
F20-1013	1123	F3561	2030	FCS1227E	2016	FDH400	1102	FOR2D	1067	F5E1001	2016	FV23	1123
F20-1014	1123	F3565	2030	FCS1227E814	2016	FDH444	1122	FOS100	2016	F5E3001	2016	FV-24	561
F20-1015	1104	F3569	1617	FCS1227F	2016	FDH666	1122	FOS101	2016	F5E5002	2016	FV24	1122
F20-1016	1104	F3570	2023	FCS1227F743	2016	FDH694	1122	FOS104	2009	F5P-1	2016	FV914	2016
F24T-011-013	2016	F3571	1617	FCS1227G	2016	FDH900	1122	FP50801	2016	F5P1	2016	FV918	2016
F24T-011-015	2058	F3574	2016	FCS1227G810	2016	FDH911	1122	FPN2907	2023	F5P-42	2016	FV2369A	2016
F24T-016-024	2016	F3589	2030	FCS1229	2030	FDH1000	1101	FPN3563	2016	F5P-42-1	2016	FV2484	2016
F24T-029-001	1617	F3590	2023	FCS1229F	1617	FDH6229	1122	FPR40-1001	1617	F5P42-1	2016	FV3014	2016
F82Z	1114	F3597	2023	FCS1229G	1617	FDH1006	1122	FPR40-1003	2016	F5P-164	2016	FV3299	2016
F96N	2016	F4001	2401	FCS8050C	2009	FDH1007	1122	FPR40-1006	1123	F5P164	2016	FV3300	2016
F101	1114	F4011	2411	FCS8550	2023	FDN400	1102	FPR50-1001	1617	F5P-165	2016	FW50	1171
F102	1114	F4011PC	2411	FCS8550C	2023	FDN444	1102	FPR50-1002	1617	F5P165	2016	FW100	1104
F104	2055	F4013	2413	FCS9011E	2009	FDN600	1122	FPR50-1003	2016	F5P-166	2016	FW300	1173
F105	2055	F4017	2417	FCS9011F	2009	FDN666	1122	FPR50-1004	2016	F5P166	2016	FW400	1104
F106	2055	F4049	2449	FCS9011G	2009	FE 100	2035	FPZ6V2	561	F5P-166-1	2016	FW500	1104
F113A	1104	F4049PC	2449	FCS9011H	2009	FE100	2035	FPZ9V1	562	F5P166-1	2016	FW600	1104
F113B	1104	F4706	2016	FCS9012	2023	FE-100(IR)	2035	FPZ12	563	F5P-215	2016	FW600A	1104
F113D	1104	F4709	2030	FCS-9012F	2023	FE100(IR)	2035	FR061	1104	F5P-242-1	2016	FWB3003	1173
F113E	1104	F5404DM	1802	FCS-9012G	2023	FE 100A	2035	FR062	1104	F5P242-1	2016	FWB3004	1173
F114E	1104	F7316	2009	FCS9012G	2023	FE100A	2035	FR063	1104	F5P-270-1	2016	FWL50	1171
F115	2041	F-7404PC	1802	FCS9012H	2023	FE-102	2035	FR064	1104	F5P-288-1	1104	FWL100	1104
F116	2041	F9014D	2009	FCS9012HE	2023	FE102	2035	FR065	1104	F5P-289-1	2016	FWL200	1104
F117	2055	F9600	1617	FCS9012HG	2023	FE-102A	2035	FR-1	1104	F5T2	1104	FWL300	1104
F117A	2055	F9623	1617	FCS9013	2009	FE102A	2035	FR1	1104	F5T3	1104	FWL400	1173
F118	2055	F9623(G.E.)	2016	FCS-9013F	2009	FE-104A	2035	FR1-54A	1104	FT001	2030	FWLA50	1171
F118A	2055	F9623F	2009	FCS9013F	2009	FE104A	2035	FR1D	1122	FT002	2030	FWLA100	1171
F119	2055	F9625	2016	FCS9013F G	1617	FE-400	2035	FR-1H	1104	FT003	2030	FWLA300	1173
F119A	2055	F10124	1104	FCS9013FG	1617	FE400	2035	FR1H	1104	FT004	2030	FWLA400	1173
F120	2055	F10148	1104	FCS-9013G	2009	FE402	2035	FR-1H(M)	1104	FT004A	2030	FWLC300	1173
F120A	2055	F10180	1104	FCS9013G	2009	FE-402A	2035	FR-1HM	1104	FT005	1617	FWLC400	1173
F121-546	2009	F-12227	1104	FCS9013H	2009	FE402A	2035	FR-1M	1104	FT006	1617	FX709	2016
F121-433804	1617	F-12737	2020	FCS9013HG	2009	FE-404A	2035	FR1M	1104	FT008	1617	FX914	2058
F136	1123	F-13316	2020	FCS9013HH	2009	FE404A	2035	FR1MB	1104	FT008A	1617	FX918	2058
F209	2023	F-13317	2020	FCS9014	2009	FE4302	2062	FR-1MD	1104	FT0019H	2030	FX2368	2009
F215-1001	2016	F-14168	1122	FCS9014(B)	2009	FE5945	2035	FR1MD	1104	FT0019M	2023	FX2369A	2058
F215-1002	2016	F-14959	1122	FCS9014B	2009	FF400	2035	FR-1N	1104	FT023	1617	FX2894	2023
F215-1003	2016	F-15023	1122	FCS9014C	2016	FG-2N	1114	FR-1P	1104	FT024	1617	FX3013	2058
F215-1004	2016	F-15024	1122	FCS9014D	2016	FG-2NA	1104	FR1P	1104	FT025	1617	FX3014	2058
F215-1005	2016	F15810	2016	FCS9015B	2023	F1023	2016	FR-1U	1104	FT026	1617	FX3300	2009
F215-1010	1123	F15835	2016	FCS9015C	2023	FIP100D	1144	FR1U	1104	FT027	2030	FX3964	2023
F215-1012	1123	F15840	1617	FCS9015D	2023	FJH131	1801	FR-2	1104	FT052	2023	FX4046	2009
F215-1013	1123	F15840-1	1617	FCS9016	2016	FJH231	1801	FR2	1104	FT053	1617	FZ5.1T5	565
F215-1014	1123	F15841	2016	FCS9016D	2016	FJH241	1802	FR2-02	1104	FT-1	1104	FZ5.1T10	565
F215-1016	1104	F-16147	1122	FCS9016E	2016	FJH311	1801	FR2-02(DIO)	1104	FT1	1122	FZ6.2T10	561
F215-1017	1104	F20303	1123	FCS-9016F	2009	FJJ141	1808	FR2-02C	1104	FT-1N	1104	FZ6.5T10	561
F222	1617	F21490	2023	FCS9016F	2009	FJT1100	1122	FR2-06	1114	FT1N	1104	FZ12A	563
F266A	1020	F27002	1104	FCS-9016G	2009	FJT1101	1101	FR2-020	1104	FT-10	1104	FZ12T5	563
F-302-1	2009	F50116	2016	FCS9016G	2016	FJT1118	1101	FR2-02	1104	FT10	1114	FZ12T10	563
F302-1	1617	F69916	2030	FCS9016H	2016	FJT1134	1101	FR-2M	1104	FT14A	1104	FZ15A	564
F302-2	1617	F75116	1617	FCS9018	2016	FK914	2016	FR2M	1104	FT19H	2023	FZ15T5	564
F-302-1532	2009	FA-1	1123	FCS9018D	2016	FK918	2016	FR2P	1104	FT19M	2023	FZ15T10	564
F302-1532	1617	FA-4	1114	FCS9018E	2016	FK2369A	2016	FR2PC	1144	FT34G	2035	FZ101	2009
F-302-2532	2009	FA4	1104	FCS-9018F	1617	FK2484	2016	FR10	1104	FT34Y	2035	FZ901	565
F302-2532	1617	FA6	1104	FCS9018F	2016	FK3014	2016	FR101	1104	FT40	2009	FZ1215	563
F306-001	1617	FA8	1114	FCS9018G	2016	FK3299	2016	FR102	1104	FT45	2016	G00004A	1123
F306-022	1617	FA111	1122	FCS9018H	2016	FK3300	2016	FR103	1104	FT107B	2016	G00008A	1123
F336GD	030	FA2310E	1122	FCS9066	2016	FK3484	2009	FR104	1104	FT118	2016	G00-003-A	1123
F336HD	036	FA2310U	1122	FD3	1104	FK3494	2009	FR105	1104	FT340	2017	G00-004-A	1123
F366	1617	FA2320E	1122	FD6	1104	FLH101	1801	FR-202	1104	FT402	2055	G00-008-A	1123
F501	2016	FA2320U	1122	FD63	1114	FLH201	1801	FRB12-0TRK	1102	FT709	2016	G00-009-A	1123
F501(ZENITH)	2016	FA2330E	1122	FD100	1122	FLH211	1802	FRH-101	1104	FT1315	2016	G00-012-A	1122
F501-16	2016	FA2330U	1122	FD103	1114	FLH381	1822	FR-U	1104	FT1324B	2016	G00-012A	1122
F502	2016	FA8005	563	FD111	1122	FLJ161	1808	FS19	1123	FT1324C	2016	G00-013-8	1123
F502(ZENITH)	2016	FA8006	563	FD200	1122	FLL121T	1805	FS-1133	2009	FT1341	2023	G00-014-A	1122
F523	2016	FA8007	563	FD222	1122	FLL121V	1805	FS1168E641	2009	FT1746	2023	G00-502-A	1104
F531	1617	FA8008	563	FD303	1102	FM1J2	1104	FS1168F813	2009	FT3055	2020	G00-502A	1104
F549-1	2023	FA8009	564	FD333	1122	FM211N	1104	FS1221	1617	FT3567	2009	G00-534-A	1104
F572-1	1617	FA8010	564	FD400	1102	FM708	2016	FS1308	2016	FT3568	2009	G00-535-B	1104
F587	1617	FA8011	564	FD600	1122	FM709	2016	FS1331	2030	FT3569	2009	G00-535A	1104
F625-1	2030	FA8012	564	FD777	1122	FM720A	2016	FS1682	2016	FT3638	2023	G00-536-A	1104
F699	2023	FB-200	1173	FD-1029-4	2023	FM870	2016	FS1974	1617	FT3643	1617	G00-536A	1104
F1462	2035	FB200	1173	FD-1029-4A	2023	FM871	2016	FS2003-1	2016	FT4354	2023	G00-543-A	1104
F1463	2035	FB1043	1123	FD-1073-BF	1801	FM910	2016	FS2043	2009	FT4355	2023	G00-551-A	1104
F2427	2016	FB6853	1617	FD-1073-BJ	1802	FM911	2016	FS3266	2016	FT5040	2023	G00-803-A	1122
F2443	1617	FBT070	2030	FD-1073-BM	1822	FM914	2016	FS3683	2016	FT5041	2023	G00502A	1104
F2448	1617	FC91	1122	FD1559	1144	FM1613	2016	FS-7812	1771	FTR129	2058	G00515A	1617
F2450	2016	FC5006	2016	FD1599	1104	FM1711	2016	FS7812	1771	FU1M	1104	G00535	1104
F2584	1617	FCD0003PC	1122	FD1708	1122	FM2242	1617	FS24226	2023	FU-1MA	1104	G01	1104
F2633	2016	FCD0014NCS	1122	FD1843	1122	FM2368	2016	FS24954	2023	FU-1N	1104	G01-036-G	562
F2634	2016	FC3916F	2058	FD1980	1123	FM2369	2016	FS27233	2030	FU1N	1104	G01-036-H	562
F2636	2016	FCS1168E	2016	FD3389	1104	FM2846	2016	FS27604	2009	FU-1NA	1104	G01-036A	561

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
G01-037-A	563	G30	1143	G1010	1123	GE-17	2009	GE558	1104	GE55827A	2009	G1508	1141
G01-037-B	1122	G36	1144	G1010A	1123	GE-18	2020	GE 7460	1808	GE55820	2016	G1501	1142
G01-269-B	1122	G4	1104	G1149	1124	GE-19	1804	GE 7484	1802	GE55829A	2016	G1502	1142
G01-276-B	1122	G4A	1114	G1179	1124	GE-20	1617	GE 7496	1822	GE54000	2005	G1504	1144
G01-303-A	1122	G4B	1143	G1242	1124	GE-22	1623	GE 7447	1823	GE54001	2005	G1505	1144
G01-803A	1122	G4D	1143	G1288	1123	GE-26	2027	GE-7490	1808	GE56002	2009	G1811	1104
G02	1104	G4G	1144	G1501	1102	GE-28	2017	GEA6.2(E)B2	561	GE56003	2023	G1812	1104
G03-017-B	2023	G4.7T5	565	G9423	2058	GE-37	2055	GE-CR3	1101	GE56004	2009	G1814	1104
G03-407-Y	2023	G4.7T10	565	G9600	1617	GE-38	2055	GE-CR-3	1101	GE56005	2023	G1816	1104
G04-041B	2016	G4.7T20	565	G9600(G.E.)	1617	GE-39	2016	GED05B850	1123	GE56006	2009	G1-2711	2009
G05-003-A	2009	G5	1124	G1023	1617	GE42.7	1104	GED05B850	1123	GE59007	2023	G12711	1617
G05-003-B	2009	G3C	1123	G1023	2058	GE-60	2016	GE787-E	2025	GE56010	2030	G1-2712	2009
G05-004A	2016	G7F	1123	G1096	1617	GE-61	2058	GE-C-179	701	GE56011	2023	G12712	1617
G05-010-A	1617	G5K	1123	G10119	1124	GE-62	2016	GE-C-190	1770	GE56012	2020	G12713	2009
G05-011-A	1617	G5.1T5	565	G12638	2023	GE-65	2022	GE-C-194	1801	GE56013	2023	G1-2714	2009
G05-012-G	2016	G5.1T10	565	GARE	561	GE-66	2020	GEIC-220	038	GE56014	2030	G1-2715	1617
G05-015-D	1617	G5.1T20	565	GB08D	1102	GE-66A	2020	GEIC-260	1740	GE56015	2023	G1-2715	2016
G05-015C	1617	G6	1104	GB-1	1123	GE-69A	2027	GEIC-265	007	GE56016	2030	G12715	1617
G05-034-D	1617	G6.2T5	561	GB1	1122	GE-77	2041	GEIC-269	1723	GE56017	2023	G1-2716	2016
G05-035-D	1617	G6.2T10	561	GB53410F	2035	GE-81	1617	GEIC-334	703	GE56222	2009	G12716	1617
G05-035-D, E	2016	G6.2T20	561	GC783	1617	GE-82	2023	GEIC-5	1067	GE56224	2009	G1-2921	2016
G05-035-E	2016	G7D	1123	GC784	1617	GE-85	2016	GER4007	1114	GE56560	2009	G1-2921	1617
G05-035D	2016	G7E	1123	GC1144	1617	GE-86	2016	GER4007	1114	GE56561	2009	G1-2922	2016
G05-035E	1617	G7F	1123	GC1615-1	2030	GE-123	1617	GER4007	1114	GE56563	2023	G12722	1617
G05-036-B	2009	G7G	1123	GC5012	1123	GE-123AP	2009	GER4004	1114	GE56700Z	2009	G1-2923	2016
G05-036-C	2009	G7SE211	2043	GD1E	1123	GE-129	2016	GER4005	1114	GET706	1617	G12923	1617
G05-036-C, D, E	1617	G8	1114	GD1P	1123	GE129	2016	GER4006	1114	GET708	1617	G1-2924	2016
G05-036-D	2009	G9.1T5	562	GD1Q	1123	GE-130	1104	GER4007	1114	GET914	1617	G12924	1617
G05-036-E	2009	G9.1T10	562	GD2E	1123	GE-166	1171	GES92	2009	GET929	2030	G1-2925	2016
G05-036B	2009	G9.1T20	562	GD4E	1123	GE-168	1173	GES93	2023	GET930	2030	G1-2926	2009
G05-036C	2009	G10	1114	GD5E	1123	GE-178MP	1122	GES97	2009	GET2221	1617	G13002	1704
G05-036D	1617	G12.5	543	GD8E	1123	GE-210	2009	GES209	2009	GET2214	2009	G1-3006	1104
G05-036E	1617	G12T10	543	GD8E	1123	GE-211	2009	GES330	2009	GET2223	1617	G1-3391	2016
G05-037-A	2009	G12T20	543	GD16	1123	GE-212	2009	GES2221	2009	GET2224	2009	G1-3391A	2016
G05-037-B	2009	G15T5	563	GD17E	1123	GE-213	2009	GES2211A	2009	GET2349	1617	G1-3392	2016
G05-037-D	2009	G15T10	564	GD12	1104	GE-237	2055	GES2222	2009	GET2483	2016	G1-3393	2016
G05-037B	1617	G15T20	564	GD12E	1123	GE-241	2020	GES2222A	2009	GET3013	1617	G1-3394	2016
G05-050-C	2016	G95G	1104	GD13E	1123	GE-243	2030	GES2483	2009	GET3014	1617	G1-3395	2016
G05-055-C	2009	G100A	1104	GD-25	1123	GE-259	2055	GES2906	2023	GET3562	2016	G1-3396	2016
G05-055-D	2009	G100B	1104	GD25	1123	GE-262	2041	GES2907	2023	GET3563	2058	G1-3397	2016
G05-055-E	2009	G100D	1104	GD-26	1123	GE-263	2043	GES2923	2009	GET3638	2023	G1-3398	2016
G05-062-R	2058	G100G	1104	GE-29	1123	GE-268	2009	GES2924	2009	GET3638A	2023	G1-3403	2009
G05-064-A	2009	G100J	1104	GD-30	1123	GE-269	2023	GES2925	2009	GET3646	1617	G1-3405	2009
G05-065-A	2016	G100K	1114	GD72E/3	1123	GE-283	2009	GES2926	2009	GET3903	2009	G1-3415	2009
G05-066-A	2009	G100M	1114	GD72E/4	1123	GE-289A	2009	GES3055	2009	GET3904	2009	G1-3416	2009
G05-413A	2009	G130	1104	GD72E/5	1123	GE-300	1122	GES3392	2009	GEVR-101	1770	G1-3417	2009
G05-413B	2009	G154	1123	GD72E3	1123	GE-302	2020	GES3393	2009	GEVR-102	1770	G1-3605	2016
G05-413C	2009	G155	1123	GD72E4	1123	GE-312	2035	GES3395	2009	GEVR-110	1771	G1-3606	2016
G05-413D	2009	G156	1123	GD72E5	1123	GE-327	2058	GES3396	2009	GEVR-111	1771	G1-3607	2016
G05-706-D	2009	G157	1123	GD73E/3	1123	GE-341	2020	GES3397	2009	GE-X5	1067	G13638	2023
G05-706-E	2009	G158	1123	GD73E/4	1123	GE-345	2048	GES3414	2009	GE-X16A193M	1617	G13638A	2023
G06-111-B	2017	G159	1123	GD73E/5	1123	GE-414	1122	GES3415	2009	GE-X18	2017	G1-3641	2009
G08-005	2023	G198	1123	GD73E3	1123	GE-504	1104	GES3416	2009	GE-X36	1104	G13641	1617
G08-007-B	2023	G199	1123	GD73E4	1123	GE-504A	1104	GES3417	2009	GE-X44	1104	G13642	2009
G08D	1114	G200	1123	GD73E5	1123	GE-505	1114	GES3418	2009	GE-X44	1123	G13642	2009
G01036	562	G222	1104	GD74E/3	1123	GE-509	1114	GES3566	2009	GEX66	1104	G13643	1617
G01209	1122	G296	1104	GD74E/4	1123	GE-509A	1114	GES4121	2023	GEZD-4.7	565	G13644	2023
G01211	1104	G297	1123	GD74E/5	1123	GE-510	1114	GES4122	2023	GEZD-5.0	565	G13702	2023
G01803	1122	G409	1123	GD74E3	1123	GE-512	1114	GES4248	2023	GEZD-5.1	565	G13703	2023
G03007	2023	G498	1123	GD74E4	1123	GE-514	1122	GES5368	2009	GEZD-6.0	561	G1-3704	2009
G03015	1617	G580	1123	GD74E5	1123	GE-531	1114	GES6369	2009	GEZD-6.2	561	G13704	1617
G03015D	1617	G657	1104	GD107A	1123	GE-1232	703	GES5370	2009	GEZD-8.7	562	G1-3705	2009
G03015E	1617	G459	1104	GD400	1123	GE-3229	2020	GES5371	2009	GEZD-9.1	543	G13705	1617
G03025	1617	G700	1104	GU401	1123	GE-3265	1617	GES5372	2023	GEZD-11.5	543	G1-3706	2009
G03036	1617	G701	1104	GD402	1123	GE-3265	2009	GES5373	2023	GEZD-12	543	G13706	1617
G05059	1617	G702	1104	GD403	1123	GE-3638	1123	GES5374	2023	GEZD-15	564	G1-3707	2016
G05705	2020	G704	1123	GD404	1123	GE-3638	1123	GES5375	2023	GEZJ252A	1104	G13707	1617
G0Q-535-B	1104	G766	1123	GD405	1123	GE-4001	2401	GES5447	2023	GEZJ252B	1104	G1-3708	2016
G1	1104	G788	1123	GD406	1123	GE-4011	2411	GES5448	2023	GFB-30G	1114	G13708	1617
G1A	1103	G789	1123	GD407	1123	GE-4013	2413	GES5449	1617	GFD10B	1104	G1-3709	2016
G1B	1104	G790	1123	GE408	1123	GE-4017	2417	GES5450	1617	GFD10C	1104	G13709	1617
G1B	1103	G814	1123	GD409	1123	GE-4049	2449	GES5451	2009	GFD10E	1104	G1-3710	2016
G1G	1103	G815	1123	GE411	1123	GE-4304	1173	GES5911	2023	GFD10G	1104	G13710	1617
G1HA	1123	G816	1123	GD-510	1122	GE-5480	1067	GES6313	2023	GHD8	1104	G1-3711	2016
G1K	1114	G820	1123	GD510	1123	GE-5401	1067	GES6314	2009	GE-1N4385	1104	G13711	1617
G1M	1114	G821	1123	GD663	1123	GE-5402	1067	GES5815	2023	G10	1617	G1-3721	2016
G2	1104	G822	1123	GD1001	1123	GE-5404	1067	GES5816	2009	G1-100-1	1104	G13793	2016
G2A	1104	G823	1123	GD3638	1122	GE-5414	1067	GES5817	2023	G1254	1104	G1-3900	2016
G2B	1114	G824	1123	GE-1N506	1104	GE-5415	1020	GES5818	2009	G1298-03	1104	G1-3900A	2016
G2D	1114	G825	1123	GE-6GX1	1101	GE-5453	1020	GES5819	2009	G1-300B	1104	G13992-17	1104
G2E	1114	G844	1123	GE5.2	561	GE-5455	1067	GES5821	2023	G1-300D	1104	G13992	1104
G2J	1114	G845	1123	GE6.2A	561	GE-5457	1020	GES3822	2009	G1223-04	1104	G1-3900-D	1104
G2K	1114	G846	1123	GE6.2B	561	GE-5512	1020	GES3823	2023	G1411	1104	G1-3900-D	1114
G2M	1114	G847	1123	GE-10	2009	GE-5842	1000	GES5024	2009	G1419-0	1104	G1-3900-D	1104
G3	1104	G848	1123	GE-10A	2016	GE-5801	1143	GES5825	2009	G1419B	1104	G1-TV3	1104
G3A	1141	G849	1123	GE-11	2016	GE-6063	1122	GES5826	2009	G1430	1104	G1430	1104
G3B	1142	G-1010	1123	GE-14	2061	GE-6266	1104	GES5827	2009	G1438B	1104	G1-1N4385	1104

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GL5AR2	041	GO6-714C	2017	GS2053-H	2027	GSZ4.7	565	GZM9.1(B2)	562	HA100	1104	HBF4013AE	2413
GL5PR6	041	GO6-717-B	2017	GS5628	1114	GSZ4.7A	565	HJ-80005	563	HA178M05	1770	HBF4013AF	2413
GL31AR	026	GO8-005L	2035	GS9011(I)	2009	GSZ5.1	565	HJ-00008	1104	HA178M05P	1770	HBF4017	2417
GL-32AR	026	GOO-004-A	1123	GS9011(J)	2009	GSZ5.1A	565	HJ-00012	562	HA178M12P	1771	HBF4017A	2417
GL7805	1770	GOO-008-A	1123	GS9011-G	2009	GSZ6.2	561	HJ-09018	1104	HA178M15P	1772	HBF4017AE	2417
GLA47	565	GOO-009-A	1123	GS9011-H	2009	GSZ6.2A	561	H087	1123	HA200	1104	HBF4017AF	2417
GLA47A	565	GOO-012-A	565	GS9011-I	2009	GSZ9.1	562	H089	563	HA300	1104	HBFA049A	2449
GLA47B	565	GOO-013-B	1123	GS9011F	2009	GSZ9.1A	562	H091	1123	HA400	1104	HC-00227	1617
GLA51	565	GOO-014-A	565	GS9011I	2009	GSZ12	563	H1V	2016	HA500	1104	HC-00268	2030
GLA51A	565	GOO-535-B	1144	GS9011J	2009	GSZ12A	563	H1Z	1104	HA505	2027	HC-00372	2058
GLA51B	565	GOO-536A	1144	GS9012-G	2023	GSZ15	564	H11J1	134	HA600	1104	HC-00373	2016
GLA62	561	GOO-543-A	1144	GS9012-H	2023	GSZ15A	564	H11J2	134	HA800	1114	HC-00380	2016
GLA62A	561	GP05A	1104	GS9012-I	2023	GT06	1000	H11J3	134	HA1000	1114	HC-00394	2009
GLA62B	561	GP08B	1104	GS9012G	2023	GT15T5	564	HA11J4	134	HA2001	2035	HC-00458	2009
GLA91	562	GP08D	1114	GS9012H	2023	GT1644	2023	H11J5	134	HA2010	2035	HC-00460	2009
GLA91A	562	GP1	1104	GS9012I	2023	GU-1	1104	H50	1104	HA5062-5	1715	HC-00461	2009
GLA91B	562	GP2-345	1122	GS9012J	2023	GU-1A	1104	H100	1104	HA7501	2023	HC-00509	2009
GM0378	1173	GP2-354	1122	GS9014	2009	GU-1Z	1104	H102	1617	HA7502	2023	HC-00535	2058
GM0380	2016	GP10A	1101	GS9014-H	2009	GU-3	1104	H104	2009	HA7506	2023	HC-00536	2016
GM-1	1114	GP10B	1104	GS9014-I	2009	GU3	1104	H109	1114	HA7507	2023	HC-00537	2009
GM-1A	1114	GP10D	1104	GS9014-J	2009	GU-3A	1106	H1235H	1000	HA7510	2023	HC-00644	2030
GM-1B	1114	GP10G	1103	GS9014-K	2009	GU3A	1104	H142	1122	HA7533	2023	HC-00668	2016
GM-1C	1114	GP10J	1104	GS9014H	2009	GU-3C	1104	H200	1104	HA7534	2023	HC-00693	2009
GM1J2	1114	GP10K	1114	GS9014I	2009	GU3C	1104	H2548A	1104	HA7536	2023	HC-00711	2016
GM-1Z	1114	GP10M	1114	GS9014J	2009	GU-3SZ	1143	H254E4	1104	HA7537	2023	HC-00732	2016
GM-3	1114	GP15	1114	GS9014K	2009	GU3SZ	1143	H284D4	1104	HA7538	2023	HC-00735	2009
GM3	1114	GP15A	1114	GS9015-H	2023	GU-3Z	1104	H300	1104	HA7543	2023	HC-00772	2016
GM-3A	1114	GP15B	1114	GS9015-I	2023	GV5760	1122	H315F4	1104	HA7597	2023	HC-00784	2058
GM-3B	1114	GP15BL	1114	GS9015-J	2023	GV6063	1617	H315M2	1104	HA7598	2023	HC-00828	2009
GM3B	1114	GP15H	1114	GS9015H	2023	GXI4.7	565	H316	1123	HA7599	2023	HC-00829	2016
GMA-3Y	1114	GP15G	1114	GS9015I	2023	GXI5.1	565	H326E4	1104	HA7633	2023	HC-00838	2009
GM3Y	1114	GP15J	1114	GS9015J	2023	GXI6.2	561	H480	1104	HA7804	2023	HC00838	2009
GM-3Z	1114	GP15K	1114	GS9018-G	2009	GXI9.1	562	H410	1101	HA7806	2023	HC-00839	2009
GM3Z	1114	GP15M	1114	GS9018-H	2009	GXI12G	563	H442	2016	HA7808	2023	HC-00871	2009
GM308	2016	GP20A	1114	GS9018-I	2009	GXI15	564	H475	1104	HA7810	2023	HC-00900	2016
GM760	2023	GP20B	1114	GS9018F	1617	GXI15	563	H500	1104	HA7815	2023	HC-00920	2016
GM-770	2016	GP20D	1114	GS9018G	2009	GYMTZ9.1-C	562	H585	1104	HA9532B	2023	HC-00921	2009
GM770	2016	GP20G	1104	GS9022-G	2009	GZ1-4.7	565	H600	1104	HA17458G5	038	HC-00923	2016
GMA-01	1122	GP20J	1114	GS9022-H	2009	GZ1-5.1	565	H614	1123	HA17555	1723	HC-00924	2009
GMA01	1122	GP20K	1114	GS9022F	2023	GZ1-6.2	561	H616	1104	HA17555PS	1723	HC-00929	2058
GMA-01-BT	1122	GP20M	1114	GS9023	2009	GZ1-9.1	562	H617	1104	HA17558	038	HC-00930	2016
GMA01-BT	1122	GP25A	1141	GS9023(H)	2009	GZ1-12G	563	H618	1104	HA17723G	1740	HC00930	2058
GMA01-L	1122	GP-25B	1104	GS9023-1	2009	GZ1-15	564	H619	1104	HA17741G	007	HC-00945	2009
GMB01	1122	GP25B	1143	GS9023-G	2009	GZ1-115G	563	H620	1104	HA17741GS	007	HC-01000	2016
GMB01L	1122	GP25D	1143	GS9023-H	2009	GZ6.2	561	H621	1114	HA17741PS	007	HC-01047	2016
GME040-1	2023	GP25G	1144	GS9023-I	2009	GZA4.7	565	H623	1122	HA17805	1770	HC-01060	2017
GME1001	1617	GP30A	1141	GS9023G	2009	GZA4.7-X-BT	565	H624	1123	HA17805H	1770	HC-01098	2017
GME1002	1617	GP-30B	1143	GS9023H	2009	GZA4.7X	565	H625	1104	HA17805P	1770	HC-01209	2030
GME2001	1617	GP30B	1143	GS9023I	2009	GZA4.7Y	565	H626	1104	HA17812P	1771	HC-01317	2030
GME2002	1617	GP30D	1143	GS9023J	2009	GZA4.7Z	565	H781	1104	HA17815P	1772	HC-01318	2009
GME3001	2016	GP30G	1144	GS9023K	1617	GZA5.1	565	H783	1104	HA17901G	1712	HC-01327	2016
GME3002	2016	GP230	1104	GS9024(J)	2009	GZA5.1(X)	565	H800	1114	HA17902G	1711	HC-01335	2016
GME4001	1617	GP250	1104	GS9024(K)	2009	GZA5.1(Y)	565	H-881	1114	HA17902P	1711	HC-01359	2016
GME4002	1617	GP252	1114	GS9024-I	2009	GZA5.1(Z)	565	H881	1104	HAB005	1114	HC-01390	2009
GME4003	1617	GP-300	1143	GS9025(J)	2009	GZA5.1-BT	565	H889	1122	HAR10	1104	HC-01417	2016
GME6001	2016	GP330	1122	GS9025H	2009	GZA5.1-Y-BT	565	H890	1101	HAR15	1104	HC-01820	2009
GME6002	2016	GP340	1122	GS9025I	2009	GZA5.1X	565	H891	1104	HAR20	1104	HC-01830	2016
GME6003	1617	GP235A	1123	GS9025J	2009	GZA5.1Y	565	H931	1617	HB2	1104	HC-30	1104
GME9001	2016	GP236A	1123	GS9025J-1	2009	GZA6.2	561	H933	1617	HB3	1101	HC30	1114
GME9002	2016	GPM1NA	1123	GS9033(I)	2009	GZA6.2(X)	561	H934	1617	HB12B	563	HC-39	1104
GME9021	2016	GPM1NB	1123	GS9033(J)	2009	GZA6.2(Y)	561	H1000	1114	HB50	1114	HC39	1114
GME9022	2016	GPM1NC	1123	GSA15B	1114	GZA6.2-BT	561	H1017A	1144	HB600	1114	HC50	1114
GMO-380	2009	GPM2NA	1123	GSA15C	1114	GZA6.2-X	561	H-1567	2009	HB800	1114	HC-56	2009
GMO380	2016	GR16	1114	GSA15E	1114	GZA6.2-Y	561	H1567	1617	HB1000	1114	HC67	1104
GO1-803A	565	GR22	1114	GSA15G	1114	GZA6.2BT	561	H7126-3	1104	HBC4001AD	2401	HC67F	1104
GO3-007C	2017	GR23	1114	GSA30B	1114	GZA6.2U	561	H8287	1123	HBC4001AF	2401	HC-68	1104
GO4-041B	2009	GR24	1114	GSA30C	1114	GZA6.2Y	561	H8287-4	1123	HBC4001AK	2401	HC68	1104
GO5-003-A	2009	GS73E/3	1123	GSA30E	1114	GZA9.1	562	H8513A	1123	HBC4011AD	2411	HC69	1104
GO5-003-B	2009	GS2012	2020	GSA30G	1114	GZA9.1-Z	562	H8513D	1123	HBC4011AF	2411	HC71	1104
GO5-004A	2016	GS2012(G)	2020	GSA30J	1114	GZA9.1E	562	H9423	1617	HBC4011AK	2411	HC72	1114
GO5-010-A	1617	GS2012(H)	2020	GSB10B	1114	GZA9.1Z	562	H9623	1617	HBC4013AD	2413	HC72F	1114
GO5-011-A	1617	GS2012G	2020	GSB10C	1114	GZA12	563	H9625	2016	HBC4013AF	2413	HC73	1114
GO5-015-C	2009	GS2012H	2020	GSB10E	1114	GZA12-Y-BT	563	H9696	1617	HBC4013AK	2413	HC73F	1114
GO5-015-D	2030	GS2013(G)	2020	GSB10G	1114	GZA12BT	563	H10174	1104	HBC4017AD	2417	HC80	1104
GO5-034-D	2030	GS2013(H)	2020	GSB10J	1114	GZA12X	563	H20052	1104	HBC4017AF	2417	HC206	2016
GO5-035-D	2016	GS2013-G	2020	GSB10L	1114	GZA12Y	563	H21400014	1122	HBC4017AK	2417	HC371	2009
GO5-035-D.E	2016	GS2013-H	2020	GSC2052G	2027	GZA12YBT	563	H21400015	1122	HBFA001	2401	HC372	2009
GO5-035-E	2016	GS2013-I	2020	GSC2052H	2027	GZA15	564	H21400026	1122	HBFA001A	2401	HC-373	2009
GO5-036-C,D,E	2009	GS2013-O	2020	GSH9025	2009	GZB6.2	561	H23100024	2023	HBFA001AE	2401	HC373	2009
GO5-036B	2009	GS2013-Y	2020	GS-19011	2009	GZB9.1	562	H23100045	2023	HBFA001AF	2401	HC380	2016
GO5-036C	2009	GS2013G	2020	GSM51	1101	GZB9.1C	562	H31100129	2449	HBFA0009A	2449	HC381	2016
GO5-036D	2030	GS2013H	2020	GSM52	1101	GZB12	563	HA-00495	2023	HBFA011	2411	HC394	2016
GO5-036E	2009	GS2052(H)	2027	GSM53	1104	GZB12B	563	HA00562	2023	HBFA011A	2411	HC454	2016
GO5-037B	2009	GS2052D	2027	GSM54	1104	GZB12C	563	HA-00564	2023	HBFA011AE	2411	HC458	2009
GO5-050-C	2009	GS2052G	2027	GSM482	1104	GZB15	564	HA-00610	2023	HBFA011AF	2411	HC460	2016
GO5-055-D	2030	GS2052H	2027	GSM483	1104	GZB15C	564	HA-00733	2023	HBFA013	2413	HC461	2016
GO5-413A	2030	GS2053-G	2027	GSR1	1114	GZM6.2(B2)	561	HA50	1104	HBFA013A	2413	HC-495	2017

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HC#95	2020	HD7490A	1808	HE-234-267, W103-254)	HEP135	1123	HEPP5002	134	HEPS0033	2058	HF-20047	1104
HC500	1104	HD7490AP	1808		HEP154	1104	HEPR0050	1104	HEPS0034	1617	HF-20048	1122
HC-535	2009	HD14001B	2401	HE-234-274	HEP155	1104	HEPR0051	1104	HEPS0035	2009	HF-20050	1104
HC#35	2016	HD14011B	2411	HE-234-275	HEP156	1102	HEPR0052	1104	HEPS0036	2009	HF-20052	1104
HC35A	2016	HD14011BP	2411	HE-234-290	HEP157	1104	HEPR0053	1104	HEPS0037	2023	HF-20060	1122
HC35B	2016	HD14013B	2413	HE-234-299	HEP158	1104	HEPR0054	1104	HEPS0038	2009	HF-20060	1122
HC-537	2016	HD14017B	2417	HE-234-353	HEP159	1114	HEPR0055	1114	HEPS0040	2009	HF-20061	1122
HC537	2016	HD14049UB	2449	HE-234-522	HEP160	1114	HEPR0056	1114	HEPS0045	2017	HF-20063	1122
HC539	2009	HD14066B	2466	HE-234-523	HEP161	1141	HEPR0070	1143	HEPS0060	2020	HF-20064	1122
HC545	2016	HD14066BCP	2466	HE-234-526	HEP162	1143	HEPR0071	1143	HEPS0061	2020	HF-20065	562
HC-361	2009	HD14066BP	2466	HE-417-821	HEP166	1101	HEPR0072	1144	HEP-55014	2030	HF20066	1104
HC361	2009	HD75188	2520	HE-417-822	HEP170	1114	HEPR0080	1114	HEPS5021	2055	HF-20067	1104
HC600	1114	HD75188P	2520	HE-417-865	HEP175	1171	HEPR0081	1114	HEPS5026	2030	HF-20071	1114
HC646	2016	HD75189	2521	HE-417-874	HEP177	1173	HEPR0082	1114	HEP-57002	2041	HF-20083	1104
HC-668	2016	HD75189P	2521	HE-417-875	HEP243	2030	HEPR0084	1114	HEPS7002	2041	HF-20084	1104
HC668	2016	HD200207	1104	HE-417-923	HEP248	2043	HEPR0086	1114	HEPS7003	2043	HF-20088	1123
HC670	1104	HD200301	1104	HE-417-937	HEP312	2009	HEPR0090	1114	HEP-57004	2041	HF-20095	1122
HC680	1104	HD-1000101	1123	HE-442-21	HEP320	1067	HEPR0091	1114	HEPS7005	2055	HF-20123	1122
HC700	1104	HD1000101	1123	HE-442-22	HEP340	1000	HEPR0092	1114	HEPS7006	2055	HF-20124	1122
HC710	1104	HD1000101-0	1123	HE-442-54	HEP602	565	HEPR0094	1114	HEPS9150	2068	HF200191A	2035
HC720	1114	HD1000105	1123	HE-442-63	HEP604	563	HEPR0096	1114	HEP-Z0210	565	HF200191A/	2035
HC#730	1114	HD1000105-0	1123	HE-442-602	HEP607	564	HEPR0097	1114	HEPZ0210	565	HF200191B-0	2035
HC-772	2009	HD1000107	1123	HE-442-663	HEP704	2041	HEPR0098	1114	HEPZ0210A	565	HF200191A0	2035
HC772	2016	HD1000107-0	1123	HE-442-674	HEP705	2041	HEPR0170	1114	HEP-Z0211	565	HF200191AO	2035
HC784	2016	HD1000301	1123	HE-442-688	HEP708	2023	HEPR0180	1114	HEPZ0211	565	HF200191B-0	2035
HC800	1114	HD1000302	1123	HE-443-7	HEP709	2058	HEP-R0604	1114	HEPZ0211A	565	HF200191B0	2035
HC829	2016	HD1000303	1123	HE-443-36	HEP711	2030	HEPR0801	1171	HEP-Z0214	561	HF200191B0	2035
HC-1000	2016	HD1000303-0	1123	HE-443-45	HEP716	2023	HEPR0802	1171	HEPZ0214	561	HF200301B	2035
HC-50102	1067	HD1000320	1123	HE-443-603	HEP717	2023	HEPR0804	1173	HEPZ0214A	561	HF200301B0	2035
HC10004110	1801	HD-2000106	1122	HE-443-707	HEP718	2016	HEPR0841	1171	HEP-Z0219	562	HF200301B0	2035
HCC4001BD	2401	HD2000106	1122	HE-443-629	HEP719	2058	HEPR0842	1171	HEPZ0219	562	HF200301C-0	2035
HCC4001BF	2401	HD2000108	1114	HE-443-695	HEP720	2058	HEPR0845	1173	HEPZ0219A	562	HF200301C-0	2035
HCC4001BK	2401	HD2000110-0	1104	HE-443-703	HEP721	2016	HEPR0851	1171	HEP-Z0222	563	HF200411B	2035
HCC4011BD	2411	HD2000206	1122	HE-443-794	HEP722	2016	HEPR0852	1171	HEPZ0222	563	HF200411C0	2035
HCC4011BF	2411	HD2000301	1104	HE-443-794(L,75188N)	HEP723	1617	HEPR0855	1173	HEPZ0222A	563	HF309301E	2016
HCC4011BK	2411	HD2000301-0	1104		HEP724	1617	HEPR1001	1067	HEP-Z0225	564	HF2000411B	2035
HCC4013BD	2413	HD2000305	1104	HE-443-794(MC1488)	HEP725	2009	HEPR1002	1067	HEPZ0225	564	HF-DS410	1122
HCC4013BF	2413	HD2000307	1104		HEP726	2016	HEPR1003	1067	HEPZ0225A	564	HF-MV2	1122
HCC4013BK	2413	HD-2000308	1104	HE-443-795	HEP727	2016	HEPR1004	1067	HEP-Z0405	565	HF-SD1	1104
HCC4017BD	2417	HD2000308	1104	HE-443-795(L,MC1489A)	HEP728	1617	HEPR1005	1067	HEPZ0405	565	HF-SD-1A	1104
HCC4017BF	2417	HD2000413	1104		HEP729	1617	HEPR1215	1067	HEP-Z0406	565	HFSD1A	1104
HCC4017BK	2417	HD2000510	1102	HE-443-795	HEP730	2016	HEPR1216	1067	HEPZ0406	565	HFSD1B	1104
HCC4066BF	2466	HD2000510	1104	(,SN75189AN)	HEP731	2016	HEPR1217	1067	HEP-Z0408	561	HF-SD-1C	1104
HCF4001BE	2401	HD2000610	1104	HE-443-929	HEP732	2016	HEPR1218	1067	HEPZ0408	561	HFSD12	1114
HCF4001BF	2401	HD2000703	1104	HE-443-970	HEP733	2016	HEPR1219	1020	HEP-Z0412	562	HFSG005	1104
HCF4011BE	2411	HD2000803	1104	HE-1024	HEP734	2016	HEPR1711	1000	HEPZ0412	562	HF200411B	1123
HCF4011BF	2411	HD2000903	1104	HE-10001	HEP735	2009	HEPR1712	1000	HEP-Z0415	563	HF5001	1123
HCF4013BE	2413	HD2001005	1122	HE-10002	HEP736	2009	HEPR1713	1000	HEPZ0415	563	HF5002	1123
HCF4013BF	2413	HD2001105	1122	HE-10003	HEP737	2016	HEPR1715	1000	HEPZ0416	563	HF5003	1123
HCF4017BE	2417	HD2001310	1104	HE-10024	HEP738	2009	HEPR9002	1101	HEPZ0417	564	HF5004	1123
HC#4017BF	2417	HD3000101-0	563	HE-10025	HEP739	2023	HEPR9003	1101	HEP-Z0418	564	HF5005	1123
HC#4049BE	2449	HD-3000301	1104	HE-10027	HEP801	2035	HEP-R9134	1123	HEPZ0418	564	HF5006	1123
HC#4049BF	2449	HD3000401	562	HE-10030	HEP802	2035	HEPR9134	1123	HEPZ0419	564	HF5007	1123
HC#4066BE	2466	HD300109	564	HE-10044	HEP803	2035	HEPR9134A	1123	HEPZ1409	565	HF5008	1123
HC#4066BF	2466	HD3002409	563	HE-15188	HEPC3000L	1801	HEP-R9135	1123	HE-SD1	1104	HF5009	1123
HCV	1104	HD3003309	565	HE-15426	HEPC3000P	1801	HEPR9135	1123	H-EX0019GE	564	HF5020	1123
HD-00227	1617	HD4000109	1123	HE-15446	HEPC3001L	1801	HEPR9136	1123	H-EX0047CE	563	HF5078	1123
HD-1	1104	HD10001010	1123	HE-20011	HEPC3001P	1801	HEPR9137	1122	HF-OSW05	1104	HF5079	1123
HD10-001-01	1123	HD10001050	1123	HE-CD0000	HEPC3004L	1802	HEPS0002	2009	HFOW05	1104	HF5085	1123
HD20-003-01	1104	HD10002020	1123	HEF4001BD	HEPC3004P	1802	HEPS0004	2009	HF-A	1104	HF5088	1123
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HD2000	1104	HD20001210	1122	HEF4001P	HEPC3800P	1808	HEPS0006	2023	HF-15339	562	HGR1	1104
HD2000-301	1104	HD20003010	1104	HEF4011BD	HEPC4001P	2401	HEPS0008	2058	HF2	2009	HGR2	1104
HD2503	1001	HD2000510	1114	HEF4011BP	HEPC6052P	007	HEPS0010	2058	HF3	2009	HGR3	1104
HD2503P	1801	HD20007030	1104	HEF4011P	HEP-C6102P	038	HEPS0011	2009	HF4	2009	HGR4	1104
HD2509	1801	HD20011050	1122	HEF4013BD	HEPC6102P	038	HEPS0015	2009	HF5	2009	HGR-5	1104
HD2509P	1801	HD20023100	1104	HEF4013BP	HEPC6110P	1770	HEP-50016	2016	HF6	2009	HGR5	1101
HD2519	1808	HD30017090	562	HEF4013P	HEPC6113P	1771	HEPS0016	2016	HF7	2009	HGR-R10	1104
HD2519P	1808	HE-0A90	1123	HEF4017BD	HEPC6114P	1772	HEPS0017	2058	HF8	2009	HGR-10	1104
HD2522	1802	HE-1N34	1123	HEF4017BP	HEPC6130P	1723	HEPS0020	2016	HF9	2030	HGR10	1104
HD2522P	1802	HE-1N34A	1123	HEF4017P	HEPC6131P	1723	HEP-50021	1617	HF11	2017	HGR-20	1104
HD2532	1805	HE-1N40	1123	HEF4049BD	HEPC7400P	1801	HEPS0021	2016	HF15	2017	HGR20	1122
HD2532P	1805	HE-1N60P	1123	HEF4049BP	HEPC7401P	1801	HEPS0022	2009	HF17	2016	HGR-30	1104
HD2550	1822	HE-15188	1123	HEF4066BD	HEPC7404P	1802	HEP-50023	2016	HF47	2023	HGR30	1122
HD2550P	1822	HE-15426	1123	HEF4066BP	HEPC7408P	1822	HEPS0023	2016	HF50	2009	HGR-40	1104
HD4001	2401	HE-15446	1123	HE-M8489	HEPC7447AP	1805	HEP-50024	2016	HF57	2020	HGR40	1103
HD4011	2411	HE-56-56	1122	HEP50	HEPC7447P	1805	HEPS0024	2016	HF58	2027	HGR-60	1104
HD4013	2413	HE-56-58	561	HEP52	HEPC7490AP	1808	HEPS0025	2009	HF-10024	1123	HGR60	1104
HD4017	2417	HE-56-73	1122	HEP53	HEPC7490P	1808	HEP-50026	2023	HF-20004	562	HI035C	1000
HD4049	2449	HE-56-93	1122	HEP54	HEPD0002	075	HEPS0026					

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HI1355	1000	HP5082-0133	1122	HR-200	1143	HSP1001	1122	HT303941B	2016	HT308281B	2009	HT8001610	2016
HI235C	1000	HP5082-0134	1122	HR600	1114	HSP1007	1122	HT304508K	2009	HT308281BO	2009	HT8001710	2016
HI235D	1000	HP5082-2800	1122	HR800	1114	HSP1010	1122	HT304531	1617	HT308281C	2009	HT8001810	1617
HI235G	1000	HP5082-3001	1122	HR1000	1114	HSP1011	1122	HT304531A	1617	HT308281D	2009	HT9000310	2041
HI235H	1000	HP5082-3080	1122	HRP22	1104	HSP1013	1122	HT304531B	1617	HT308281G	2009	HT9000410-O	2041
HI235S	1000	HP35860A	1617	HRP32	1104	HSP1020	1102	HT304531C	1617	HT308281H	2009	HT9000410-O	2041
HI335D	1000	HR-05A	1104	HS25-1B	1104	HST5001	2016	HT304540A0	2016	HT308281O	2009	HT30373100	1617
HI335G	1000	HR-2A(PENNCREST)	1104	HS1001	1104	HST-9201	2041	HT304540A0	2009	HT308282A	2009	HT30387100	2016
HI335H	1000	HR-5A	1104	HS1002	1104	HST-9205	2041	HT304540B0	1617	HT308282A-0	2009	HT30733100	2016
HI335S	1000	HR5A	1104	HS1003	1104	HST-9206	2041	HT304540B0	2009	HT308282A-O	2009	HT30945120	2009
HI435C	1000	HR5A8E	1104	HS1004	1122	HST-9210	2041	HT304580	1617	HT308282B	2016	HT31909100	2009
HI435D	1000	HR-5AX2	1104	HS1005	1122	HT100	2023	HT304580A	1617	HT308291A	1617	HT32362280	2016
HI435G	1000	HR-5B	1104	HS1006	1122	HT101	2023	HT304580B	1617	HT308291A-0	2016	HV0000105-0	1104
HI435H	1000	HR5B	1104	HS1007	1104	HT102	2009	HT304580CO	1617	HT308291A-O	1617	HV00002020	1123
HI435S	1000	HR10	1104	HS1008	1104	HT103	2009	HT304580CO	2009	HT308291B	1617	HV00003020	2016
HIFI	1104	HR-11	1617	HS1009	1104	HT400	1617	HT304580K	1617	HT308291B-0	1617	HV00007050	1104
HI79014N-C	2009	HR11	1104	HS1010	1104	HT401	1617	HT304580Y0	1617	HT308291BO	2009	HV00001050	1122
HK-00049	2035	HR-11A	1617	HS1011	1104	HT30491C	2030	HT304580Y0	2009	HT308291B-O	2009	HV-15	1123
HK-00330	2035	HR11A	2009	HS1012	1104	HT30494	2041	HT304580Z	1617	HT308291BO	2009	HV15	1123
HKT-158	2009	HR-11B	1617	HS1020	1104	HT30494X	2041	HT304581	1617	HT308291C	2009	HV-23BL	1123
HKT-161	2009	HR11B	2009	HS-1168	1617	HT31041CO	2016	HT304581A	1617	HT308291D	2009	HV-23G(BL)	1122
HL18998	1801	HR-12	2030	HS-1225	2016	HT36441B	2016	HT304581B	1617	HT308301B0	2020	HV-25	1122
HL19000	1802	HR-13	1617	HS-1226	2016	HT38281D	2009	HT304581B-0	1617	HT309002A0	2016	HV25	1617
HL19015	1808	HR13	1104	HS-1227	2016	HT104861	2030	HT304581B-O	2009	HT309291C	2016	HV-25(DIODE)	1122
HL55763	1822	HR-13A	1617	HS-1229	1617	HT104861A	2030	HT304581C	1617	HT309291E	2016	HV25(HITACHI)	1122
HL55862	1802	HR13A	2009	HS2047	565	HT104861B	2030	HT304601B0	2009	HT309301C	2016	HV-25(RCA)	1122
HL56420	1801	HR-14	2016	HS2051	565	HT104941B-0	2023	HT304601BO	2009	HT309301D	2016	HV-26	1104
HL56421	1802	HR14	2009	HS2062	561	HT104941B-O	2023	HT304601CO	2016	HT309301E	2016	HV-26G	1104
HM9.1	562	HR-14A	1617	HS2091	562	HT104941C-0	2023	HT304601CO	2009	HT309301F	2016	HV-27	1122
HM9.1A	562	HR14A	2009	HS2120	563	HT104941CO	2023	HT304611B	2016	HT309451L0	2009	HV46#OR#(DIODE)	1104
HM9.1B	562	HR-15	2016	HS2150	564	HT104941C-O	2023	HT304861	2030	HT309451R0	2009	HV-46GR	1104
HM12	563	HR-15A	1617	HS3103	1104	HT104942A	2023	HT304861A	2030	HT309452A0	2009	HV-100	1104
HM12A	563	HR15A	2009	HS3104	1104	HT104951A-0	2023	HT304861B	1617	HT309680B	2030	HV-801	1123
HM12B	563	HR-16	1617	HS3105	1122	HT104951B	2023	HT304941X	2041	HT309714A-0	2030	HW9.1	562
HM15	564	HR16	2009	HS3108	1114	HT104951B-0	2023	HT304961C-0	2017	HT309841B0	2030	HW9.1A	562
HM15A	564	HR-16A	1617	HS3110	1114	HT104951C	2023	HT304961C-O	2017	HT309841BO	2030	HW9.1B	562
HM15B	564	HR16A	2009	HS7047	565	HT105611	2023	HT304971A	2030	HT309842A-0	1617	HW9.1B	562
HM4864-3	2506	HR-17	1617	HS7051	565	HT105611A	2023	HT304971AO	2030	HT309842A-O	2030	HW11B	563
HM4864P-2	2506	HR17	2009	HS7062	561	HT105611B	2023	HT304971AO	2030	HT310001F	2016	HW12	563
HMG251	1122	HR-17A	1617	HS7091	562	HT105611BO	2023	HT304971B	2030	HT310002A	2016	HW12A	563
HMG252	562	HR17A	2009	HS7120	563	HT105611BO	2023	HT304971B	2030	HT311621B	2020	HW12B	563
HMG625	1122	HR-18	1617	HS7150	564	HT105611C	2023	HT305351CO	2016	HT312131CO	2009	HW15	564
HMG625A	1122	HR18	2009	HS8407	2055	HT105612B	2023	HT305351CO	2009	HT313171R	2009	HW15A	564
HMG789	1122	HR-18A	1617	HS9010	1122	HT105621B-0	2023	HT305361E	2009	HT313172A	2009	HW15B	564
HMG790	1122	HR18A	2009	HS9502	1122	HT105621BO	2023	HT305361G	2009	HT313181C	2030	HX50001	2016
HMG791	1122	HR-19	1617	HS9503	1122	HT105621BO	2023	HT305371E	1617	HT313271T	2016	HX50002	1617
HMG792	1122	HR19	2009	HS9505	1122	HT105641C	2023	HT305642B	2023	HT313272B	2016	HX50003	2016
HMG811	1122	HR-19A	1617	HS9506	1122	HT105641D	2023	HT306441	2009	HT313591CO	2009	HX-50063	2009
HMG812	1122	HR19A	2009	HS9508	1122	HT105641H	2023	HT306441A	2016	HT313592B	2009	HX-50072	2009
HMG813	1122	HR28	2030	HS9509	1122	HT105642B	2023	HT306441A0	2030	HT316751M0	2009	HX-50091	2058
HMG903	1122	HR29	2030	HS-40014	2009	HT105642CO	2023	HT306441AO	2030	HT318291D0	1617	HX-50092	2009
HMG903A	1122	HR-32	2009	HS-40016	2009	HT106731B	2023	HT306441B	1617	HT319091O0	2009	HX-50094	2023
HMG904	1122	HR32	2009	HS-40017	2016	HT106731BO	2023	HT306441B-0	1617	HT401191	2041	HX-50097	2009
HMG904A	1122	HR-36	2009	HS-40019	2016	HT107211T	2023	HT306441BO	1617	HT401191A	2041	HX-50102	1067
HMG905	1122	HR36	2009	HS-40020	2016	HT107331Q0	2023	HT306441B-O	2030	HT401191B	2041	HX-50105	2023
HMG905A	1122	HR-37	1617	HS40021	2016	HT303620B	1617	HT306441BO	2030	HT401193A0	2041	HX-50107	2009
HMG906	1122	HR37	2009	HS40022	2016	HT303711A	2009	HT306441C	1617	HT402352B	2020	HX-50108	2009
HMG906A	1122	HR-38	2009	HS40023	2016	HT303711A-0	2016	HT306441C-0	1617	HT403131E0	2020	HX-50110	2016
HMG907	1122	HR39	2016	HS40024	2016	HT303711AO	2009	HT306441C-O	2030	HT403131E0	2020	HX-50112	2023
HMG907A	1122	HR-47	2016	HS40025	2016	HT303711A-O	2009	HT306442A	2016	HT403132AO	2020	HX-50113	2009
HMG908	1122	HR47	2016	HS40026	2030	HT303711AO	2009	HT306442B	2016	HT403151E	2020	HX-50128	2023
HMG993	1122	HR-48	2009	HS-40027	2023	HT303711B	2009	HT306451	2016	HT403152A	2020	HX-50161	2009
HMG3067	1122	HR48	2009	HS-40030	2016	HT303711B-0	2009	HT306451A	2016	HT600011F	2023	HX-50172	1617
HMG3068	1122	HR-5B	2016	HS-40031	2023	HT303711BO	2009	HT306451B	2016	HT600011H	2023	HX-50176	2023
HMG3123	1122	HR58	2016	HS-40035	2023	HT303711B-O	2009	HT306451C	2009	HT800011F	1617	HX-50181	2009
HMG3124	1122	HR-59	2016	HS-40037	1617	HT303711BO	2009	HT306681C	2016	HT800011G	1617	HY3045801C	1617
HMG3593	1122	HR59	2016	HS-40039	2009	HT303711C	2016	HT306962A-0	2016	HT800011H	1617	HYB4164-P2	2506
HMG3596	1122	HR-60	2009	HS-40040	2023	HT303720A	2016	HT306962A-O	2009	HT800011K	1617	HZ5	565
HMG4147	1122	HR60	2016	HS-40044	1617	HT303721-0	1617	HT307321A	1617	HT800012F	2030	HZ5(H)	565
HMG9010	1122	HR62	2009	HS-40045	2016	HT303721D	1617	HT307321B-0	1617	HT800191H	2030	HZ5B-1	565
HN-00002	1122	HR63	2009	HS-40046	1617	HT303730	1617	HT307321B-O	2009	HT3036201	2009	HZ5B-2	565
HN-00003	1123	HR64	2009	HS-40047	2016	HT303730A	1617	HT307322A	2016	HT5036210	1617	HZ5C	565
HN-00005	563	HR65	2009	HS-40049	2016	HT303801	2016	HT307331B	1617	HT3037010	2016	HZ5C-1	565
HN-00008	1104	HR66	2009	HS40049	2016	HT303801A	2016	HT307331C	2016	HT3037201	2016	HZ-5C1	565
HN-00012	562	HR-68	2020	HS-40050	2023	HT303801AO	2016	HT307331CO	2009	HT3037201A	2016	HZ5C1	565
HN-00018	1101	HR-69	2017	HS-40053	2023	HT303801AO	2009	HT307331CO	2016	HT3037201B	2016	HZ5C1TD	565
HN-00024	562	HR69	2020	HS-40054	2009	HT303801B	2016	HT307341	2030	HT3037210	1617	HZ5C-2	565
HN-00032	1104	HR70	2027	HS-40055	2016	HT303801B-0	2016	HT307341A	2030	HT3037210-0	1617	HZ6C2	561
HN-0047	1122	HR-71	2023	HS-40057	2023	HT303801BO	2016	HT307341B	2009	HT3037210-O	2009	HZ6.2PB	561
HN482764G	1251	HR71	2023	HSC-1	1114	HT303801B-O	2009	HT307341C-0	2009	HT3037310	2016	HZ-9	562
HO91	1123	HR76	2016	HSC1	1114	HT303801BO	2009	HT307341CO	2030	HT3038013-B	2016	HZ9	562
HO99	1101	HR77	2058	HSCH-1001	1104	HT303801C	2016	HT307342B	2030	HT3073310	2009	HZ9(H)	562
HP-5A	1104	HR78	2058	HSFD-1	1114	HT303801CO	2016						

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HZ9BZ	562	IDA23403B	563	IP20-0205	1801	IR106Y2	1067	ITC109-6	1020	J108	2016	J24915	2016
HZ-9C	562	IDA23403C	563	IP20-0212	2020	IR106Y3	1067	ITC918A	2016	J139A	1617	J24916	2009
HZ9C-2	562	IDA23404	564	IP20-0213	2023	IR106Y4	1067	ITE4416	2035	J187	2016	J24920	1104
HZ9C2	562	IDA23404A	564	IP20-0214	2009	IR413	2055	ITH61	1114	J241	1123	J24921	2016
HZ9H	562	IDA23404B	564	IP20-0216	1122	IR1603	1020	ITS5817	1141	J242	1123	J24923	2016
HZ9L	562	IDK0742	2466	IP20-0217	2023	IRC5	1067	ITS5818	1141	J243	1123	J24932	2016
HZ9-1PB	562	IE12Z5	563	IP20-0231	2009	IRC10	1067	ITT33	1122	J304	2035	J24933	2016
HZ11C25	563	IE460B	2058	IP20-0282	1122	IRC20	1067	ITT44	1122	J308	2035	J24935	1104
HZ-12	563	IE850	2009	IP20-0283	1123	IRF511	2072	ITT73N	1122	J309	2035	J24939	1104
HZ-12(A)	563	IGL78M05	1770	IP20-0305	2035	IRF513	2072	ITT102	1123	J623	2016	J24940	1104
HZ12(A)	563	IGLA6458BDF	038	IP20-0310	1801	IRF523	2072	ITT1#2	1122	J624	2016	J41642	2041
HZ-12(B)	563	IGLC4011	2411	IP20-0323	2020	IRFE100	2035	ITT181-1	1122	J626	2016	J41645	2023
HZ12(B)	563	IGLC4011B	2411	IP100	1067	IRTR20	2023	ITT200	1122	J627	2016	J101183	1104
HZ-12(C)	563	IGLC4013B	2413	IP101	1067	IRTR22	2009	ITT301	1123	J629	2016	J241054	2009
HZ12(C)	563	IJNJM4558DM	038	IP102	1067	IRTR24	2009	ITT350	1104	J630	2016	J241099	2009
HZ-12A	563	ILM340T12	1771	IP103	1067	IRTR26	2041	ITT413	1122	J685	1123	J241100	1104
HZ12A	563	ILMC14013B	2413	IP104	1067	IRTR31	2023	ITT417	563	J961B(G.E.)	1617	J241102	1104
HZ-12A3	563	IM4004	1103	IP105	1020	IRTR-51	2016	ITT600	1122	J1000-7400	1801	J241142	1104
HZ-12ABC	563	IN60-1	1123	IP106	1020	IRTR51	2016	ITT601	1122	J1000-7404	1802	J241177	2016
HZ12B	563	INC61684	1101	IP7805	1770	IRTR52	2023	ITT718	1123	J1000-7447	1805	J241179	561
HZ-12B2	563	INJ33349	1123	IP7805A	1770	IR-TR53	2030	ITT895	2009	J1000-7490	1808	J241182	1122
HZ-12C	563	INJ60034	1123	IP7812	1771	IRTR53	2030	ITT920	1122	J1000-NE555	1723	J241188	2016
HZ12C	563	INJ60284	1123	IP7815	1772	IRTR-55	2017	ITT921	1122	J2441	1123	J241189	2016
HZ-15	564	INJ61224	1123	IR2A	1104	IRTR55	2017	ITT973	2023	J9680	2023	J241241	2020
HZ15	564	INJ61225	561	IR2E	1104	IRTR57	2020	ITT975	2009	J9697	2023	J241245	1123
HZ15(H)	564	INJ61227	1104	(IR)2SA564A	2023	IRTR-59	2041	ITT2001	1122	J20437	1104	J241251	2009
HZ15-1	564	INJ61433	1122	(IR)2SC281B	2016	IRTR59	2041	ITT2002	1122	J20438	563	J241252	2020
HZ15H	564	INJ61434	1104	(IR)2SC372	2058	IRTR-61	2041	ITT3001	1122	J24262	561	J241253	2023
HZ15L	564	INJ61675	1123	(IR)2SC373	2016	IRTR61	2041	ITT3002	1102	J24458	1617	J241255	2030
HZ15PB	564	INJ61677	1122	(IR)2SC380AO	2058	IRTR-62	2009	ITT3003	1122	J24561	2016	J241256	2030
HZ312A	563	INJ61725	1122	(IR)2SC403A	2016	IRTR62	1617	ITT4000G	1101	J24562	2016	J241259	2023
HZ5230	565	INJ61726	1104	(IR)2SC454B	2009	IRTR63	1617	ITT5059	1104	J24563	2016	J241260	1104
I02A978120	1771	INJ70973	1123	(IR)2SC458B	2009	IRTR-64	2017	ITT5060	1102	J24564	2009	J241275	026
I55D04066B	2466	INJ70980	1123	(IR)2SC460B	2058	IRTR-68	2055	ITT5061	1103	J24565	2009	J310249	1617
I55D040010	2401	INMPD4011BC	2411	(IR)2SC535B	2016	IRTR68	2055	ITT5062	1104	J24567	1123	J310250	1617
I538	1104	INMPD4011BC		(IR)2SC536	2016	IRTR-70	2058	ITT7215	1122	J24570	1104	J320020	1104
I96416	1122	(LUPD4011BC)	2411	(IR)2SC537B	2009	IRTR70	2016	ITT7400N	1801	J24596	2016	J320041	1123
I2764	1251	INMPD4013BC	2413	(IR)2SC538A	2016	IRTR-71	2016	ITT7401N	1801	J24624	1617	JA101	2023
I2764-2	1251	INMPD4066BC	2466	(IR)2SC644	2016	IRTR71	2016	ITT7404N	1802	J24625	1617	JA101P	2023
I9623	2016	INUPD4011BC	2411	(IR)2SC682A	2058	IRTR76	2020	ITT7408N	1822	J24628	1123	JA101Q	2023
I9631	2030	INUPD4013BC	2413	(IR)2SC710	2009	IRTR77	2027	ITT7447AN	1805	J24630	1104	JA1050	2023
I473688-1	1067	INUPD4066BC	2466	(IR)2SC717	2009	IRTR-80	2016	ITT7490N	1808	J24631	561	JA1050G	2023
IC-20	1740	IP20-0001	2009	(IR)2SC772	2058	IRTR80	2016	ITT330419	1122	J24632	562	JA1050W	2023
IC-20(PHILCO)	1740	IP20-0002	2009	(IR)2SC828A	2058	IRTR-83	2016	ITT412142	1122	J24635	2016	JA1200	2009
IC-74(ELCOM)	1801	IP20-0006	2009	(IR)2SC829B	2009	IRTR83	2016	ITTC4049BP	2449	J24636	2016	JA1350	2009
IC-80(ELCOM)	1801	IP20-0007	2020	(IR)2SC838	2009	IRTR86	1617	IX0069CE	2401	J24637	2016	JA1350A	2009
IC-84(ELCOM)	1802	IP20-0006	2058	(IR)2SC945	2016	IRTR87	2030	J-05	1104	J24640	2023	JA1350B	2016
IC-98(ELCOM)	1808	IP20-0012	2035	IS5GZ61	1114	IRTR92	2020	J-1	1104	J24641	1617	JA1350W	2016
IC-101(ELCOM)	1805	IP20-0015	1123	IR5JA	1123	IRTR93	2055	J-2	1104	J24643	1123	JA1350Y	2016
IC-102(ELCOM)	1822	IP20-0016	1123	IR10E6J	1104	IRTR-95	2016	J2-4570	1104	J24645	1104	JA-1555	1723
IC-520(ELCOM)	1723	IP20-0018	564	IR10E6X	1104	IRTR95	2016	J-4	1104	J24647	1104	JA1600G	2009
IC-555	1723	IP20-0019	562	IR20	1104	IRTRFE100	2035	J4-1090	1801	J24658	2009	JA7010	2009
IC-1489	2521	IP20-0020	1123	IR106A1	1067	IRW106A1	1067	J4-1004	1802	J24701	2016	JA-H	2009
IC4001BP	2401	IP20-0021	1122	IR106A1-C	1067	IRW106C1	1020	J4-1047	1805	J24752	1617	JA-KCDP	1114
IC-7400	1801	IP20-0022	1114	IR106A2	1067	IRW106Y1	1067	J4-1050	1808	J24753	1617	JA-L	2009
IC-7404	1802	IP20-0025	1103	IR106A3	1067	IS28	1067	J4-1215	007	J24755	1122	JAM702C	1104
IC-7408	1822	IP20-0028	2041	IR106A4	1067	IS-446D	1122	J4-1555	1723	J24756	1104	JB-00030	1104
IC-7408N	1822	IP20-0029	2009	IR106A41	1067	IS-1212	565	J4-1600	1617	J24812	2016	JB00030	1144
IC743040	2058	IP20-0032	2009	IR106B1	1067	ISV121	1122	J4-1601	1114	J24813	2016	JB00036	1171
IC743041	2058	IP20-0034	2009	IR106B1-C	1067	IT10D4K	1104	J4-1602	1144	J24814	2016	JB-BB1A	1104
IC7430#2	1617	IP20-0035	2035	IR106B2	1067	IT22	1123	J4-1610	1122	J24817	1123	JC-00012	1104
IC743043	2023	IP20-0036	2020	IR106B3	1067	IT22A	1123	J4-1615	565	J24820	2009	JC-03014	1104
IC743044	2009	IP20-0037	2058	IR106B4	1067	IT22AM	1123	J4-1619	561	J24832	1123	JC-00025	1104
IC743046	2035	IP20-0038	2009	IR106B41	1067	IT22B	1123	J4-1620	562	J24838	2023	JC-00028	1104
IC743047	562	IP20-0039	2009	IR106C1	1020	IT23	1123	J4-1622	563	J24842	2009	JC-00032	1104
IC743048	1104	IP20-0040	2009	IR106C1-C	1020	IT23A	1123	J4-1626	2009	J24843	2009	JC00032	1144
IC743049	1122	IP20-0041	2009	IR106C2	1020	IT23G	1617	J4-1628	1617	J24844	2009	JC-00033	1104
IC743050	1123	IP20-0046	2023	IR106C3	1020	IT23S	1123	J4-1630	1617	J24845	2009	JC-00035	1104
IC743051	1122	IP20-0054	1102	IR106C4	1020	IT40	1122	J4-1632	2023	J24846	2009	JC-00037	1104
ICR1005	1104	IP20-0060	1123	IR106C41	1020	IT108	2035	J4-1636	2009	J24852	2016	JC-00042	1104
ID100	1067	IP20-0061	1122	IR106D1	1020	IT120	2009	J4-1640	2041	J24855	2009	JC-00044	1104
ID101	1067	IP20-0083	2020	IR106D2	1020	IT121	2009	J4-1644	2016	J24863	2016	JC-00045	1104
ID102	1067	IP20-0086	565	IR106D3	1020	IT122	2016	J4-1645	2023	J24871	1104	JC-00047	1101
ID103	1067	IP20-0110	2016	IR106D4	1020	IT243	565	J4-1649	2030	J24874	2009	JC-00049	1102
ID104	1067	IP20-0120	1104	IR106D41	1020	IT261	1123	J4-1650	2023	J24875	2016	JC00049	1104
ID105	1020	IP20-0122	2009	IR106F1	1067	IT262	1123	J4-1654	2020	J24877	1104	JC00050	1104
ID106	1020	IP20-0145	1122	IR106F2	1067	IT263	1123	J4-1664	2020	J24878	2016	JC-00051	1104
IDA2824	561	IP20-0159	2023	IR106F3	1067	IT918	2016	J4-1710	2035	J24903	2016	JC-00055	1102
IDA2824A	561	IP20-0161	705	IR106F4	1067	IT918A	2016	J4-1711	2035	J24904	2016	JC-00059	1114
IDA2824B	561	IP20-0164	1114	IR106F41	1067	IT929	2016	J4-1725	1067	J24905	2016	JC-1001	1104
IDA23398	565	IP20-0165	2009	IR106Q1	1067	IT930	2016	J4-1730	1000	J24906	2009	JC501	2009
IDA23398A	565	IP20-0167	1104	IR106Q2	1067	IT2218	2009	J4-1730(TRIAC)	1000	J24907	2009	JC501-0	2009
IDA23398B	565	IP20-0179	2009	IR106Q3	1067	IT2219	2009	J-6	1104	J24909	2009	JC501P	2009
IDA23399	565	IP20-0184	1122	IR106Q4	1067	IT2221	2009	J-8	1114	J24911	1123	JC501Q	2009
IDA23399A	565	IP20-0191	2009	IR106Q41	1067	IT2222	2009	J-10	1114	J24912	1122	JC501R	2009
IDA23403	563	IP20-0192	2023	IR106Y1	1067	ITC103-1	1067	J100	1104	J24913	1123		

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
JCN1	1104	JT-E1024D	1104	K5M5	1114	K31D	2035	K41	2035	K2W4C	2016	KC388A	2009
JCN2	1104	JT-E1031	1123	K6	1123	K32E(2S)	2035	K41GR	2035	K215	2016	KC1322/1	1104
JCN3	1104	JT-E1064	1104	K6A5	1114	K33F(2S)	2035	K61Y	2035	K2616	2016	KC1115-GR	2009
JCN4	1104	JZ6.2	561	K6B5	1114	K33H	2035	K68	2035	K287C	2016	KC1815-Y	2009
JCN5	1104	JZ6.2A	561	K6G5	1114	K34	2035	K68-L	2035	K2857P	2016	KC1795-O	2009
JCN6	1104	JZ6.2B	561	K6H5	1114	K35	2035	K68-M	2035	K3683C	2016	KCDP12-1	1114
JCN7	1114	JZ6.2C	561	K7A5	1114	K35(1-GATE)	2035	K68A	2035	K3683P	2016	KCO6E11/8	1144
JC-SD-1X	1104	JZ6.2D	561	K7B5	1114	K35-0	2035	K68AL	2035	K3880C	2016	KCO8C11/8	1144
JC-SD-1Z	1104	JZ9.1	562	K7C5	1114	K35-0(1-GATE)	2035	K68A-M	2035	K3880P	2016	KCO8C21/5	1144
JC-SD1Z	1104	JZ9.1A	562	K7G5	1114	K35-1	2035	K68AM	2035	K4002	2016	KCO8C22/19	1144
JC-V005	1104	JZ9.1B	562	K7H5	1114	K35-1(1-GATE)	2035	K48L	2035	K4586	2035	KCO-8CP11/1-12/1	1104
JC-V03C	1104	JZ9.1C	562	K7K5	1114	K35-2	2035	K48M	2035	K4434	2035	KCOF11/8	1144
JCV-2	1104	JZ12	563	K7M5	1114	K35-2(1-GATE)	2035	K48Q	2035	K5001	2016	KCO-8CP11	1104
JCV3	1104	JZ12A	563	K8A5	1114	K35A	2035	K83	2035	K5002	2016	KCO-8CP11/1 + 12/1	1104
JCV-3	1104	JZ12B	563	K8B5	1114	K35A(1-GATE)	2035	K104	2035	K5003	2016		1104
JCV3	1104	JZ12C	563	K8G5	1114	K35BL	2035	K104H	2035	K5012	2035	KD27	1123
JCV7	1114	JZ15	564	K8H5	1114	K35BL(1-GATE)	2035	K106	2035	K9682	2009	KD103A	1122
JD-00040	1104	JZ15A	564	K8K5	1114	K35C	2035	K107	2035	K1038345-22C	1101	KD103B	1122
JD-BB1A	1104	JZ15B	564	K8M5	1114	K35C(1-GATE)	2035	K107-1	2035	K1038345-22E	1101	KD300A	1122
JD-SD1D	1104	JZ15C	564	K11	2035	K35GN	2035	K107-2	2035	K8532799	1104	KD2102	1617
JDSD1D	1104	K1A5	1104	K12	2035	K35GN(1-GATE)	2035	K107-4	2035	K8532058-1	1104	KD2103	1104
JD-SD1Z	1104	K1B5	1104	K12-O(1-GATE)	2035	K35R	2035	K112D	1101	K112Z5	2030	KD2104	1104
JF80NF	2009	K1C5	1104	K13	2035	K35R(1-GATE)	2035	K115J511-2	1123	K1562-Y	2023	KD2118	2030
JF1093B	2035	K1B5	1104	K14-0066-6	2030	K35Y	2035	K118J966-1	1101	K1015-O	2023	KD2119	2016
JF9011B	2016	K1E5	1104	K14-0066-12	2009	K35Y(1-GATE)	2035	K118J966-2	1101	K1559	2035	KD2903	561
JF9011C	2016	K1F5	1104	K14-0066-13	2030	K37	2035	K118J966-3	1101	KB102	1122	KD2504	562
JF9011D	2009	K1G5	1104	K15	2035	K37H	2035	K118J966-4	1101	KB-165	1122	KD2505	563
JF9011E	2009	K1H5	1104	K15-GR(1-GATE)	2035	K40	2035	K118J9663	1101	KB-182	1104	KD5000	2016
JF9011F	2009	K1K5	1114	K15-O(1-GATE)	2035	K40-3	2035	K119	2035	KB265A	1122	KDD-0013	1123
JF9011G	1617	K1M5	1114	K16MA	2035	K40A	2035	K120	2062	KB8339	1617	KDD0015	562
JF9011H	2009	K1.3G22/1A	1173	K17(2S)	2035	K40B	2035	K122D	1101	KB8416	2009	KDD0032	1104
JF9011I	2009	K1.3G22-1A	1171	K17-0	2035	K40C	2035	K152	2035	KBP-005	1171	KDD0041	1122
JF9012D	2023	K1.3G22A	1104	K17-0(1-GATE)	2035	K40C(JAPAN)	2035	K152-3	2035	KBP005	1171	KD51553	1122
JF9012E	2023	K1A5	1104	K17-OR	2035	K40D	2035	K152LA	2035	KBP01	1171	KD51554	1122
JF9012F	2023	K2B5	1104	K17A	2035	K41	2035	K168D	2035	KBP04	1173	KD51555	1122
JF9012G	2023	K2C5	1104	K17B	2035	K41C	2035	K168F	2035	KBP10-005	1185	KE-262	1104
JF9012H	2023	K2CDP221B	1171	K17BL	2035	K41D	2035	K170	2035	KBP5-005	1101	KE3684	2062
JF9013	2009	K2D5	1104	K17GR	2035	K41E	2035	K192	2035	KCO-8CP	1104	KE3685	2062
JF9013D	2009	K2DP12	1104	K17O	2035	K41E1	2035	K194	2035	KCO-8CP11/1 + 12/1	1104	KE3687	2062
JF9013E	2009	K2E5	1104	K17R	2035	K41F	2035	K195H	2062		1104	KE4220	2062
JF9013F	2009	K2F5	1104	K17Y	2035	K42	2035	K197	2035	KCOE11/8	1104	KE4416	2035
JF9013G	2009	K2G	1104	K19	2035	K42(2S)	2035	K197	2035	KCOE11/8	1104	KE5103	2062
JF9013H	2009	K2G5	1104	K19-14	2035	K42-CM1	2035	K197YC	2035	KCOE11/10	1104	KE5105	2035
JF9014	2009	K2H5	1114	K19-BL	2035	K42-CM1	2035	K197YD	2035	KCOE11/5	1104	KEB-1007	1104
JF9014A	2009	K2K5	1114	K19-GR	2035	K43	2035	K197YE	2035	KCOE11/19	1104	KEE4105A	2009
JF9014C	2009	K2M5	1114	K19-Y	2035	K43-3	2035	K200	1104	KCO8C215	1104	KEE41055	2009
JF9014D	2016	K3	1123	K19A	2035	K43-4	2035	K212	2062	KCO8C221	1104	KEE41959	1123
JF9015	2023	K3B5	1104	K19B	2035	K43-OR	2035	K212AE	2062	KCO8C1110	1104	KEE46109	1122
JF9015A	2023	K3C5	1104	K19BB	2035	K43A	2035	K212E	2062	KCO8C2219	1171	KEE46146	2009
JF9015C	2023	K3D5	1104	K19BL	2035	K43B	2035	K304	2035	KCO911/8	1104	KEE46338	2009
JF9016	2016	K3F5	1104	K19FET	2035	K43C	2035	K882	1123	KCO911	1104	KEE46465	1122
JF9016D	2016	K3G5	1104	K19GB	2035	K43D	2035	K1616	1101	KCO-8C22/1	1171	KEA7205AP	705
JF9016E	2016	K3H5	1114	K19GE	2035	K43E	2035	K1616AC	1101	KCO-8CP	1104	KEA7205P	705
JF9016F	2016	K3K5	1114	K19GR(2S)	2035	K43F	2035	K1617	1101	KCO-8CP11	1104	KEH704	2009
JF9016G	2016	K3M5	1114	K19H	2035	K43H	2035	K1617AC	1101	KCO-8CP11/1	1104	KEH1422	2009
JF9016H	2016	K4-505	2023	K19K	2035	K43J	2035	K2001	2016	KCO-8CP11/1 + 12/1	1104	KEH4567	1104
JF9016I	2016	K4-506	1617	K19V	2035	K43K	2035	K2070	2016		1104	KEH4577	1104
JF9018D	2016	K4-507	1617	K19Y(2S)	2035	K43L	2035	K2071	2016	KCO-8CP12/1	1104	KEH4746	2023
JF9018E	2016	K4-510	2016	K22Y	2035	K43M	2035	K2072	2016	KC1.3C	1104	KEH4763	1122
JF9018F	2016	K4-525	2041	K23	2035	K43OR	2035	K2073	2016	KC1.3C3X11/1	1104	KEH4792	2016
JF9018G	2016	K4-550	1123	K23A(2S)	2035	K43R	2035	K2109	2016	KC1.3C22/1	1104	KEH17E	2009
JF9018H	2016	K4-555	1104	K24	2035	K43S	2035	K2110	2016	KC1.3G	1104	KEH912F	2069
JF9018I	2016	K4-557	1104	K24(1-GATE)	2035	K43T	2035	K2111	2016	KC1.3G12/1X2	1104	KEH917G	2009
JF9100A	2009	K4-584	1067	K24C	2035	K43Y	2035	K2112	2016	KC1.3G22/1A	1104	KEH918E	2016
JF9112B	2023	K4-586(TRIAC)	1060	K24C(1-GATE)	2035	K44	2035	K2113	2016	KC2AP22/1B	1171	KEH918F	2016
JF9112C	2023	K4-590	007	K24D	2035	K44C	2035	K2114	2016	KC2AP221B	1171	KN2222	2009
JF9113C	2009	K4-632	2035	K24D(1-GATE)	2035	K44D	2035	K2115	2016	KC2BP22/1B	1104	KNL8251LA	1617
JF-1033	2035	K4-634	2035	K24DR	2035	K47(2S)	2062	K2116	2016	KC2D22/1	1171	KOS25201-1	1123
JF1033	2035	K4A5	1104	K24DR(1-GATE)	2035	K49(2S)	2035	K2117	2016	KC2D221	1104	KOS25201-2	1123
JF1033B	2035	K4B5	1104	K24E	2035	K49E2	2035	K2118	2016	KC2DP	1104	KOS25671-20	2016
JF1033G	2035	K4C5	1104	K24E(1-GATE)	2035	K49F(2S)	2035	K2119	2016	KC2DP11/1	1104	KOS25671-20	2016
JF1033S	2035	K4D5	1104	K24F	2035	K49H(1S)	2035	K2120	2016	KC2DP12/1	1104	KOS25671-23	2016
JL-40A	1122	K4E5	1104	K24H(1-GATE)	2035	K49H1	2035	K2121	2016	KC2DP12/1N	1104	KPR04	1173
JL40A	1122	K4F5	1104	K24G	2035	K49H2	2035	K2122	2016	KC2DP12/2	1104	KPG6682	1617
JL41A	1104	K4G5	1104	K24G(1-GATE)	2035	K49H(2S)	2035	K2123	2016	KC2DP22/1	1104	KR-162	1122
JL41AM	1104	K4H5	1114	K25	2035	K49M	2035	K2124	2016	KC2DP22/1B	1171	KR8417	2009
JM40	1122	K4K5	1114	K25C	2035	K52	1123	K2125	2016	KC2DP121N	1104	KR-Q0005	1123
JM401	1122	K4M5	1114	K25D	2035	K54	2035	K2126	2016	KC2DP122	1104	KR-Q1013	1617
JMJ61673	2035	K5A5	1104	K25E	2035	K54B	2035	K2127	2016	KC2DP221	1104	K5-05	1104
JP575005	1123	K5B5	1104	K25ET	2035	K54C	2035	K2501	2016	KC2DP221B	1104	K505	1104
JP575995	1123	K5C5	1104	K25F	2035	K55	2035	K2502	2016	KC2DP221C	1171	K5047A	565
JP7001	2035	K5D5	1104	K25G	2035	K55C	2035	K2503	2016	KC2G	1122	K5047B	565
JP7001B	2035	K5E5	1104	K30-O(1-GATE)	2035	K55D	2035	K2504	2016	KC2G11/1	1104	K5051A	565
JP7003	2016	K5F5	1104	K31C(2S)	2035	K58D	2035	K2601C	2016	KC2G11/1 - 12/1	1104	K5062A	565
JP7004	2016	K5G5	1104	K32	2035	K58DF	2035	K2602C	2016	KC2G11/1&12/1	1104	K534A	565
JT-1601-40	1417	K5H5	1114	K32B	2035	K58E	2035	K2603C	2016	KC2G12/1	1104	K534AF	565
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KS34BF	565	KSC1674	2016	KTC9014(C)	2009	LD5207	2016	LM386N	1731	LNA347	565	LVA362A	561
KS35A	565	KSC1674(R)	2016	KTC9014A	2009	LD5210	2009	LM386N-1	1731	LNA347A	565	LVA391A	562
KS35AF	565	KSC1674-O	2058	KTC9014A(C)	2009	LD5257	2023	LM386N-3	1731	LNA362	561	LVA450	565
KS37A	561	KSC1674-O	2016	KTC9014A(D)	2009	LDZ70/6A2	561	LM555	1723	LNA362A	561	LVA1047A	565
KS37AF	561	KSC1674O	2058	KTC9014AC	2009	LDZ70/9A1	562	LM555C	1723	LNA391	562	LVA1051A	565
KS41A	562	KSC1674R	2016	KTD880(GR)	2020	LF353	1715	LM555CJ	1723	LNA391A	562	LVA1062A	561
KS41AF	562	KSC1675	2009	KTD880(Y)	2020	LF353N	1715	LM555CN	1723	LP1H	1104	LVA1091A	562
KS44A	563	KSC1675-O	2009	KTD880-O	2020	LFRC-27-15	1104	LM555CN#1	1723	LP2H	1104	LZ4.7	565
KS44AF	563	KSC1675-O	2009	KTD880-Y	2020	LID929	2016	LM555CN#2	1723	LP3H	1104	LZZ1-4.7	565
KS44B	563	KSC1675-Y	2009	KTD880Y	2020	LID930	2016	LM556CN	1728	LP4H	1104	LZZ1-5.1	565
KS44BF	563	KSC1675R	2009	KTD8800	2020	LJ-152	2023	LM723CN	1740	LP100	1122	LZZ1-6.2	561
KS46	564	KSC1675Y	2009	KTR0710C	2009	LJ152	2023	LM741	007	LP4.7	565	LZZ1-9.1	562
KS46AF	564	KSC2120Y	2009	KTR0815C	2009	LJ152(0)	2023	LM741CJ	007	LP4.7-20	565	LZZ1-12	563
KS46BF	564	KSD227-O	2009	KYR0839C	2009	LJ152G	2023	LM741CN	007	LP4.7A	565	LZZ1-15	564
KS120A	563	KS0807M	2055	KTR1687C	2058	LL-2	1104	LM741EN	007	LPM5.1	565	LZZ1-115G	563
KS120B	563	KSD1051	2041	KTTA1015O	2023	LL2	1104	LM741N	007	LPM5.1-20	565	M-0027	1104
KS150A	564	KSD1052	2041	KX-1	1122	LM555CN	1728	LM1090E	2009	LPM5.1A	565	M0027	1104
KS150B	564	KSD1053	2041	KZ62A	561	LM207N	007	LM1090F	2009	LPM6.2	561	M012	2016
KS12A	563	KSD1054	2041	KZ91A	562	LM224AD	1711	LM1090G	2009	LPM6.2-20	561	M024	2016
KS151A	564	KSD1055	2041	L05-E	1114	LM224AF	1711	LM1110A	2016	LPM6.2A	561	M0Z	1104
KS2047A	565	KSD1056	2041	L1/2H	1122	LM224AJ	1711	LM1110B	2016	LPM9.1	562	M1-152	1114
KS2047B	565	KSD1057	2041	L1/3H	1122	LM224AN	1711	LM1117	2016	LPM9.1-20	562	M1-301	1122
KS2051A	565	KSD1058	2041	L3/2H	1104	LM224D	1711	LM1117C	2016	LPM9.1A	562	M1A1	1114
KS2051B	565	KSD2201	2041	L4	2016	LM224J	1711	LM1117D	2009	LPM11	563	M1A5	1114
KS2062A	561	KSD2202	2041	L5	2016	LM224N	1711	LM1120B	2016	LPM12	563	M1A9	1114
KS2062B	561	KSKE12C500	1114	L6	2016	LM239	1712	LM1120C	2016	LPM12-20	563	M1B1	1114
KS2091A	562	KSKE40C200	1104	L6/2H	1104	LM239A	1712	LM1123H	2016	LPM12A	563	M1B5	1114
KS2091B	562	KSKE40C500	1104	L7	2016	LM239AJ	1712	LM-1129	2009	LPM15	564	M1B9	1114
KS2120A	563	KSKE125C200	1114	L8/2H	1104	LM239AN	1712	LM-1130	2009	LPM15-20	564	M1C1	1114
KS2120B	563	KT218	1104	L3/2H	1104	LM239J	1712	LM-1132	2009	LPM15A	564	M1C5	1114
KS2150A	564	KT1815-GR	2009	L62H	1104	LM239N	1712	LM-1133	2009	LPZT12	563	M1C9	1114
KS2150B	564	KT4A73	2027	L78M05	1770	LM317KC	1778	LM1133	2009	LPZT15	564	M1D1	1114
KS20967-L1	1801	KT4A73-O	2027	L78M12	1771	LM317T	1778	LM1138	2058	LR5GZ61	1114	M1D5	1114
KS20967-L2	1802	KT4A73-O	2027	L78M12-RA	1771	LM324	1711	LM1138E/F	2058	LR47CH	565	M1D9	1114
KS21282-L1	1822	KT4A73-TM	2023	L78M12CV	1771	LM324A	1711	LM1138G/F	2058	LR51CH	565	M1E1	1114
KSA495Y	2023	KT4A73-Y	2023	L78M12RL	1771	LM324AD	1711	LM1138G/H	2016	LR51D	565	M1E5	1114
KSA539-O	2023	KT4A73-O	2023	L78N12	1771	LM324AF	1711	LM1138H/I	2058	LR51E	565	M1E9	1114
KSA539-O	2023	KT4A73-TM	2023	L78N12-RA	1771	LM324AJ	1711	LM-1147	2009	LR56CH	565	M1F1	1114
KSA539-Y	2023	KT4A73-TM-O	2023	L82H	1114	LM324AN	1711	LM-1148	2009	LR62CH	561	M1F5	1114
KSA542-O	2023	KT4A73-TM(TA)	2023	L123CB	1740	LM324D	1711	LM-1149	2023	LR62D	561	M1F9	1114
KSA542-O	2023	KT4A73-TM-Y	2023	L842	2016	LM324J	1711	LM-1150	2023	LR62E	561	M1G1	1114
KSA542Y	2023	KT4A73-TM-Y	2023	L4000K5	1060	LM324N	1711	LM-1151	2023	LR91CH	562	M1G5	1114
KSA642-O	2023	KT4A73-TM-Y-O	2023	L7812CV	1771	LM339	1712	LM-1153	2023	LR91D	562	M1G9	1114
KSA642-O	2023	KT4A73-Y	2023	L7815CV	1772	LM339A	1712	LM-1155	2009	LR91E	562	M1H	1104
KSA642-Y	2023	KT4A73-O	2023	L-612099	1822	LM339AJ	1712	LM-1158	1104	LR120CH	563	M1H1	1114
KSA708	2023	KT4A73-Y	2023	LA-72	053	LM339AN	1712	LM-1159	1122	LR120D	565	M1H5	1114
KSA708-O	2023	KT4A73-O	2023	LA-74	075	LM339D	1712	LM1159	1122	LR120E	563	M1H9	1114
KSA708-Y	2023	KT4A73-O	2023	LA300	1104	LM339DP	1712	LM-1160	1104	LR150CH	564	M1K1	1114
KSA708Y	2023	KT4A73(O)	2023	LA600	1104	LM339J	1712	LM1160	1104	LR150D	564	M1K5	1114
KSA733	2023	KT4A73(Y)	2023	LA800	1104	LM339N	1712	LM1403	2009	LR150E	564	M1K9	1114
KSA733(Y)	2023	KT4A73-O	2023	LA6458D	038	LM340-5KC	1770	LM1404	2023	LRQ849	2009	M1M1	1114
KSA733-O	2023	KT4A73-Y	2023	LA6458DF	038	LM340-5U	1770	LM1415-6	1617	LRR-50	1104	M1M5	1114
KSA733-O	2023	KT4A73-Y	2023	LAA300	1104	LM340-12KC	1771	LM1415-7	1617	LRR50	1104	M1M9	1114
KSA733-Y	2023	KT200Y	1617	LAA600	1104	LM340-12U	1771	LM1458	038	LRR-100	1104	M1S-12795B	2041
KSA733Y	2023	KT200Y	1617	LAA800	1104	LM340-15U	1772	LM1458M	038	LRR100	1104	M1X	2030
KSA735-O	2023	KTC380-O	2009	LB3000	1801	LM340AT5.0	1770	LM1458N	038	LRR-200	1104	M1Z	1102
KSA1015Y	2023	KTC380TM-O	2009	LB3006	1802	LM340T	1770	LM1501H	2030	LRR200	1104	M2A1	1114
KSC815	2009	KTC382	2058	LB3150	1808	LM340T-5	1770	LM1540	2009	LRR-300	1104	M2A5	1114
KSC815-O	2009	KTC388A	2009	LBA-01Z1	1171	LM340T-5.0	1770	LM1540C	2016	LRR300	1104	M2A9	1114
KSC815-O	2009	KTC388A-TM	2009	LBA-02Z1	1171	LM340T5.0	1770	LM1566F	2009	LRR-400	1104	M2B	1114
KSC815-OY	2009	KTC388ATM	2009	LBA-04	1173	LM340T-5.0R	1770	LM1614D	2009	LRR400	1104	M2B1	1114
KSC815-Y	2009	KTC388ATMFA	2009	LBA-04Z1	1173	LM340T-12	1771	LM1614M	2009	LRR-500	1104	M2B5	1114
KSC815Y	2009	KTC1173	2020	LC0.09M1115	1104	LM340T12	1771	LM1795	2023	LRR500	1104	M2B9	1114
KSC838-O	2009	KTC1173-O	2020	LC4001B	2401	LM340T-12R	1771	LM1818	2009	LS-0095-AR-213	2016	M2C1	1114
KSC838-O	2009	KTC1815	2009	LC4001BP	2401	LM340T-15	1772	LM-1862	1104	LS3705	2009	M2C5	1114
KSC945	2009	KTC1815(Y)	2009	LC4011	2411	LM340T15	1772	LM1862	1104	LS5484	2035	M2C9	1114
KSC945(Y)	2009	KTC1815-BL	2009	LC4011B	2411	LM340T-15R	1772	LM2152	2009	LS5485	2035	M2D1	1114
KSC945-O	2016	KTC1815-D	2009	LC4013B	2413	LM340U5	1770	LM-2589	2023	LS75753	041	M2D5	1114
KSC945-OY	2009	KTC1815-GR	2009	LC4066B	2466	LM340U12	1771	LM2682	2009	LT1016(E)	2009	M2D9	1114
KSC945-Y	2009	KTC1815-GRFA-1	2009	LC.09M	1104	LM340U15	1772	LM2901J	1712	LT1016D	2016	M2E1	1114
KSC945G	2009	KTC1815-O	2009	LC.09M11/15	1104	LM341-5	1770	LM2901N	1712	LT1016E	2016	M2E5	1114
KSC945Y	2009	KTC1815-O(TA)	2009	LD34R	1122	LM341-12	1771	LM2902	1711	LT1016H	2058	M2E9	1114
KSC1008	2009	KTC1815-Y	2009	LDA400	2009	LM341-15	1772	LM2902J	1711	LT1016I	2016	M2F1	1114
KSC1008(Y)	2009	KTC1815-Y(TA)	2009	LDA400MP	2009	LM341P-5.0	1770	LM2902N	1711	LT1016I,H	2009	M2F5	1114
KSC1008-O	2030	KTC-1815BL	2009	LDA401	2009	LM341P5.0	1770	LM3302	1712	LT1016T,H	2009	M2F9	1114
KSC1008-O	2009	KTC1815BL	2009	LDA401MP	2009	LM341P-12	1771	LM3302J	1712	LTE1016	2058	M2G1	1114
KSC1008-Y	2009	KTC1815GR	2009	LDA402	2009	LM341P12	1771	LM3302N	1712	LTE1016(G.E.)	2016	M2G5	1114
KSC1008Y	2009	KTC-1815Y	2009	LDA404	2030	LM341P-15	1772	LM3862M	1731	LTH1016	2058	M2G9	1114
KSC1187	2009	KTC1815Y	2009	LDA405	2030	LM341P15	1772	LM3909	1705	LTH1016(G.E.)	2016	M2G11	1114
KSC1187(R)	2009	KTC1923-O	2058	LDA406	2030	LM342P12	1771	LM7812	1771	LVA47A	565	M2H5	1114
KSC1187-O	2058	KTC1959-O	2009	LDA408	2030	LM342P15	1772	LM80501J	2009	LVA51A	565	M2H9	1114
KSC1187-O	2058	KTC1959-Y	2009	LDA410	2016	LM383	703	LM9016F	2016	LVA62A	561	M2K1	1114
KSC1187-R	2058	KTC2120(Y)	2009	LDA454	2023	LM383AT	703	LM9018G/F	2009	LVA91A	562	M2K5	1114
KSC1187C	2058	KTC2120-O	2009	LDA455	2023	LM383T	703	LMP15	564	LVA150	565	M2K9	1114
KSC1187O	2058	KTC2120-Y	2009	LD5200	2030	LM386	1731	LMP15-20	564	LVA162	561	M2M1	1114
KSC1187R	2058	KTC2120Y	2009	LD5201	2030	LM386A	1731	LMP15A	564	LVA347A	565	M2M5	1114
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MAH1	1114	M65F	2023	M671	2009	M4594	2009	M9170	1617	MA151WA	1122	MA4051-M	565
MAH5	1114	M67	1104	M680	1104	M4624	2009	M9184	2030	MA151WK	1122	MA4051H	565
MAH9	1114	M67A	1104	M680A	1104	M4630	2009	M9197	2016	MA154WA	1122 N1	MA4051M	565
MAHZ	1104	M67B	1104	M680B	1104	M4653	562	M9206	1104	MA154WK	1122 N2	MA4062	561
MAK1	1114	M67C	1104	M680C	1104	M4689	2030	M9209	2030	MA155WA	1122 N1	MA4062M	561
MAK5	1114	M68	1104	M690	1104	M4705	2009	M9228	2030	MA155WK	1122 N2	MA4091	562
MAK9	1114	M68A	1104	M690A	1104	M4706	2009	M9235	1104	MA156	1122 N3	MA4091(M)	562
MAK1	1114	M68B	1104	M690B	1104	M4709	2016	M9244	2041	MA-161	1122	MA4101	1617
MAK5	1114	M68C	1104	M690C	1104	M4709RED/RED	2016	M9248	2009	MA161	1122	MA4102	1617
MAK9	1114	M69	1104	M700	1104	M4714	2009	M9259	2041	MA161C	1122	MA4103	1617
MAZ4.7	565	M69A	1104	M700A	1104	M4715	2041	M9266	2016	MA161TAS	1122	MA4104	1617
MAZ4.7-20	565	M69B	1104	M700B	1104	M-4721	2009	M9278	2041	MA162	1122	MA4120	563
MAZ4.7A	565	M69C	1104	M700C	1104	M4732	2009	M9302	2041	MA162A	1122	MA4120(M)	563
MAZ5.1	565	M70	1104	M701B	1104	M4733	2016	M9312	1104	MA162LF	1122	MA4120(M)-Y	563
MAZ5.1-20	565	M70A	1104	M702	1114	M4734	2009	M9314	1104	MA162TAS	1122	MA4120H	563
MAZ5.1A	565	M70B	1104	M702B	1104	M4736	1104	M9317	1104	MA165	1122	MA4120M	563
MAZ6.2	561	M70C	1104	M702C	1104	M4737	2009	M9319	1104	MA166	1122	MA4150	564
MAZ6.2-20	561	M71	1104	M710	1104	M4739	2009	M9321	2041	MA166C	1122	MA4501	565
MAZ6.2A	561	M71A	1104	M710A	1104	M4745	2023	M9328	2023	MA167	1122	MA6001	1617
MAZ9.1	562	M71B	1104	M710B	1104	M4746	2016	M9329	2016	MA167A	1122	MA6002	1617
MAZ9.1-20	562	M71C	1104	M710C	1104	M4756	2016	M9338	2016	MA170	1122	MA6003	1617
MAZ9.1A	562	M72	1114	M720	1114	M4757	2016	M9348	2027	MA171	1122	MA6101	2030
MAZ12	563	M72A	1114	M720A	1114	M4765	2009	M9380	2030	MA171TAS	1122	MA6102	1617
MAZ12-20	563	M72B	1114	M720B	1114	M4768	2009	M9389	2009	MA175WA	1122 N1	MA7805	1770
MAZ12A	563	M72C	1114	M720C	1114	M4789	2009	M9450	2016	MA175WK	1122 N2	MA8001	2030
MAZ15	564	M72D	1114	M730	1114	M4815	2023	M9481	2016	MA176WA	1122 N1	MA8002	2030
MAZ15-20	564	M73	1114	M730A	1114	M4815D	2023	M9482	2016	MA176WK	1122 N2	MAC10-1	1000
MAZ15A	564	M73A	1114	M730B	1114	M4816	562	M9491	1617	MA181	1104	MAC10-2	1000
MAZ30	562	M73B	1114	M730C	1114	M4820	2016	M9514	2023	MA182	1104	MAC11-1	1000
MSK4164ANP-12	2506	M73C	1114	M733	2009	M4821	2009	M9519	2030	MA183	1104	MAC77-1	1000
MSK4164ANP-15	2506	M82	2016	M773RED	2009	M4825	2016	M9525	1617	MA184	1104	MAC77-2	1000
M3L2764K	1251	M91	1114	M774	2009	M4826	2016	M9526	2023	MA185	1104	MAC77-3	1000
M3L2764K FA552	1257	M91A	2009	M774ORN	2009	M4834	2009	M9527	2023	MA186	1104	MAC77-4	1000

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MAC7-5	1000	MB4-01	1171	MBCZF9.1D5	560	MC483	1122	MC6000A	561	MCCZA9.1D	562	MCR100-4	1067
MAC77-6	1000	MB4-04	1173	MBCZF9.1D10	562	MC483A	1122	MC6013	562	MCCZA9.1D5	562	MCR100-5	1020
MAC228-6	1080	MB202	1122	MBCZF12D	563	MC483B	1122	MC6013A	562	MCCZA9.1D10	562	MCR100-6	1020
MACZ9.1D	562	MB244	1104	MBCZF12D5	563	MC484	1122	MC6016	563	MCCZA12D	563	MCR101	1067
MACZ9.1D5	562	MB257	1104	MBCZF12D10	563	MC484A	1122	MC6016A	563	MCCZA12D5	563	MCR102	1067
MACZ9.1D10	562	MB269	1104	MBCZG4.7D	565	MC484B	1102	MC6018	564	MCCZA12D10	563	MCR103	1067
MACZA9.1D	562	MB270	1104	MBCZG4.7D5	565	MC485	1122	MC6018A	564	MCCZA15D	564	MCR104	1067
MACZA9.1D5	562	MB400	1801	MBCZG4.7D10	565	MC485A	1122	MC6108	561	MCCZA15D5	564	MCR106-1	1067
MACZA9.1D10	562	MB416	1801	MBCZG5.1D	565	MC485B	1102	MC6108A	561	MCCZA15D10	564	MCR106-2	1067
MACZA12D	563	MB418	1802	MBCZG5.1D5	565	MC486	1103	MC6113	562	MCCZB9.1D	562	MCR106-3	1067
MACZA12D5	563	MB513AR	1122	MBCZG5.1D10	565	MC486A	1103	MC6113A	562	MCCZB9.1D5	562	MCR106-4	1067
MACZA12D10	563	MB601	1801	MBCZG6.2D	561	MC486B	1103	MC6116	563	MCCZB9.1D10	562	MCR106-5	1020
MACZA15D	564	MB4204	1712	MBCZG6.2D5	561	MC487	1103	MC6116A	563	MCCZB12D	563	MCR106-6	1020
MACZA15D5	564	MB6356	562	MDCZG6.2D10	561	MC487A	1103	MC6118	564	MCCZB12D5	563	MCR107-1	1067
MACZA15D10	564	MB84001B	2401	MBCZG9.1D	562	MC487B	1103	MC6118A	564	MCCZB12D10	563	MCR107-2	1067
MACZB9.1D	562	MB84001BM	2401	MBCZG9.1D5	562	MC488	1103	MC7400	1801	MCCZB15D	564	MCR107-3	1067
MACZB9.1D5	562	MB84011	2411	MBCZG9.1D10	562	MC488A	1103	MC7400F	1801	MCCZB15D5	564	MCR107-4	1067
MACZB9.1D10	562	MB84011-U	2411	MBCZG12D	563	MC488B	1103	MC7400L	1801	MCCZB15D10	564	MCR115	1067
MACZB12D	563	MB84011B	2411	MBCZG12D5	563	MC678	1102	MC7400N	1801	MCCZC9.1D	562	MCR120	1067
MACZB12D5	563	MB84011BM	2411	MBCZG12D10	563	MC890	1122	MC7400P	1801	MCCZC9.1D5	562	MCR406-1	1067
MACZB12D10	563	MB84011M	2411	MBM2764-25	1251	MC911	1122 N1	MC7401F	1801	MCCZC9.1D10	562	MCR406-2	1067
MACZB15D	564	MB84011U	2411	MBR115P	1101	MC921	1122 N2	MC7401L	1801	MCCZC12D	563	MCR406-3	1067
MACZB15D5	564	MB84011V	2401	MC010	1104	MC931	1122 N3	MC7401P	1801	MCCZC12D5	563	MCR406-4	1067
MACZB15D10	564	MB84013B	2413	MC015	1104	MC1455P1	1723	MC7404L	1802	MCCZC12D10	563	MCR407-1	1067
MACZC9.1D	562	MB84013BM	2413	MC020	1102	MC1458	038	MC7404P	1802	MCCZC15D	564	MCR407-2	1067
MACZC9.1D5	562	MB84017B	2417	MC020A	1102	MC1458CP1	038	MC7408L	1822	MCCZC15D5	564	MCR407-3	1067
MACZC9.1D10	562	MB84017BM	2417	MC021	1101	MC1458G	038	MC7408P	1822	MCCZC15D10	564	MCR407-4	1067
MACZC12D	563	MB84049B	2449	MC021A	1101	MC1458P	038	MC7447L	1805	MCCZD9.1D	562	MCR1906-1	1067
MACZC12D5	563	MB84049BM	2449	MC022	1104	MC1458P1	038	MC7447P	1805	MCCZD9.1D5	562	MCR1906-2	1067
MACZC12D10	563	MB84066B	2466	MC022A	1104	MC1458V	038	MC7490AP	1808	MCCZD9.1D10	562	MCR1906-3	1067
MACZC15D	564	MB84066BM	2466	MC023	1102	MC1488	2520	MC7490F	1808	MCCZD12D	563	MCR1906-4	1020
MACZC15D5	564	MB84068B	2466	MC023A	1102	MC1488F	2520	MC7490L	1808	MCCZD12D5	563	MCR1906-5	1020
MACZC15D10	564	MB8409.1D	562	MC025	1104	MC1488L	2520	MC7490P	1808	MCCZD12D10	563	MCS101	1122
MACZD9.1D	562	MB8409.1D5	562	MC030	1103	MC1488N	2520	MC7805	1770	MCCZD15D	564	MCS105	1122
MACZD9.1D5	562	MB8409.1D10	562	MC030A	1102	MC1488P	2520	MC7805ACT	1770	MCCZD15D5	564	MCV	1104
MACZD9.1D10	562	MBCZA12D	563	MC030B	1104	MC1488PD	2520	MC7805BT	1770	MCCZD15D10	564	MD04	1101
MACZD12D	563	MBCZA12D5	563	MC035	1104	MC1489	2521	MC7805CP	1770	MCCZE9.1D1D	562	MD-34	1123
MACZD12D5	563	MBCZA12D10	563	MC040	1103	MC1489/5N75189N	2521	MC7805CT	1770	MCCZE9.1D5	562	MD34	1123
MACZD12D10	563	MBCZA15D	564	MC040A	1103	MC1489A	2521	MC7812	1771	MCCZE9.1D10	562	MD34A	1123
MACZD15D	564	MBCZA15D5	564	MC050	1104	MC1489AP	2521	MC7812ACT	1771	MCCZE12D	563	MD35	1123
MACZD15D5	564	MBCZA15D10	564	MC050A	1104	MC1489F	2521	MC7812BT	1771	MCCZE12D5	563	MD38	1123
MACZD15D10	564	MBCZB9.1D	562	MC060	1104	MC1489L	2521	MC7812CT	1771	MCCZE12D10	563	MD46	1123
MACZE9.1D	562	MBCZB9.1D5	562	MC060A	1104	MC1489N	2521	MC7815	1772	MCCZE15D	564	MD50	1123
MACZE9.1D5	562	MBCZB9.1D10	562	MC070	1114	MC1489P	2521	MC7815ACT	1772	MCCZE15D5	564	MD54	1123
MACZE9.1D10	562	MBCZB12D	563	MC070A	1114	MC1520	1104	MC7815BT	1772	MCCZE15D10	564	MD56	1123
MACZE12D	563	MBCZB12D5	563	MC080	1114	MC1521	1102	MC7815CP	1772	MCCZF4.7D	565	MD60	1123
MACZE12D5	563	MBCZB12D10	563	MC080A	1114	MC1522	1102	MC7815CT	1772	MCCZF4.7D5	565	MD-60A	1123
MACZE12D10	563	MBCZB15D	564	MC090	1114	MC1523	1103	MC7815CT	1772	MCCZF4.7D10	565	MD60A	1123
MACZE15D	564	MBCZB15D5	564	MC090A	1114	MC1524	1103	MC14001	2401	MCCZF5.1D	565	MD134	1122
MACZE15D5	564	MBCZB15D10	564	MC2	1122	MC1525	1104	MC14001B	2401	MCCZF5.1D5	565	MD135	1122
MACZE15D10	564	MBCZC9.1D	562	MC19	1102	MC1526	1104	MC14001BCL	2401	MCCZF5.1D10	565	MD136	1122
MACZF4.7D	565	MBCZC9.1D5	562	MC30	1114	MC1527	1114	MC14001BCP	2401	MCCZF6.2D	561	MD137	1104
MACZF4.7D5	565	MBCZC9.1D10	562	MC51	1103	MC1528	1114	MC14001CP	2401	MCCZF6.2D5	561	MD138	1104
MACZF4.7D10	565	MBCZC12D	563	MC73	563	MC1529	1114	MC14001CP	2411	MCCZF6.2D10	561	MD139	1104
MACZF5.1D	565	MBCZC12D5	563	MC78M05CT	1770	MC1558G	030	MC14011B	2411	MCCZF9.1D	562	MD234	1122
MACZF5.1D5	565	MBCZC12D10	563	MC78M12	1771	MC1723CL	1740	MC14011BAL	2411	MCCZF9.1D5	562	MD235	1122
MACZF5.1D10	565	MBCZC15D	564	MC78M12CT	1771	MC1723CP	1740	MC14011BCL	2411	MCCZF9.1D10	562	MD236	1122
MACZF6.2D	561	MBCZC15D5	564	MC78M15CT	1772	MC1741CP	007	MC14011BCP	2411	MCCZF12D	563	MD237	1104
MACZF6.2D5	561	MBCZC15D10	564	MC78T12CT	1771	MC1741CP1	007	MC-14011CP	2411	MCCZF12D5	563	MD238	1104
MACZF6.2D10	561	MBCZD9.1D	562	MC100	1114	MC1741NCP1	007	MC14011CP	2411	MCCZF12D10	563	MD708	2009
MACZF9.1D	562	MBCZD9.1D5	562	MC100A	1114	MC1741P1	007	MC14013	2413	MCCZG4.7D	565	MD708A	2009
MACZF9.1D5	562	MBCZD9.1D10	562	MC110	1114	MC2321	1122	MC14013A1	2413	MCCZG4.7D5	565	MD708AF	2009
MACZF9.1D10	562	MBCZD12D	563	MC110A	1114	MC2325	1122	MC14013B	2413	MCCZG4.7D10	565	MD708B	2009
MACZF12D	563	MBCZD12D5	563	MC110AS	1114	MC2326	1122	MC140135AL	2413	MCCZG5.1D	565	MD708BF	2009
MACZF12D5	563	MBCZD12D10	563	MC110S	1114	MC2335	1122	MC14013BCL	2413	MCCZG5.1D5	565	MD708F	2009
MACZF12D10	563	MBCZD15D	564	MC170	1122	MC2336	1122	MC14013BCP	2413	MCCZG5.1D10	565	MD753	561
MACZG4.7D	565	MBCZD15D5	564	MC-301	1122	MC2355	1122	MC14013CP	2413	MCCZG6.2D	561	MD753A	561
MACZG4.7D5	565	MBCZD15D10	564	MC308	1123	MC2356	1122	MC14017	2417	MCCZG6.2D5	561	MD757	562
MACZG4.7D10	565	MBCZE9.1D	562	MC456	1101	MC2525	1122	MC14017BAL	2417	MCCZG6.2D10	561	MD757A	562
MACZG5.1D	565	MBCZE9.1D5	562	MC456A	1122	MC2526	1122	MC14017BCL	2417	MCCZG9.1D	562	MD759	563
MACZG5.1D5	565	MBCZE9.1D10	562	MC457	1104	MC2535	1122	MC14017BCP	2417	MCCZG9.1D5	562	MD759A	568
MACZG5.1D10	565	MBCZF12D	563	MC457A	1122	MC2536	1122	MC14017CP	2417	MCCZG9.1D10	562	MD982	2023
MACZG6.2D	561	MBCZF12D5	563	MC458	1102	MC2555	1122	MC14049	2449	MCCZG12D	563	MD982F	2023
MACZG6.2D5	561	MBCZF12D10	563	MC458A	1122	MC2556	1122	MC10499	2449	MCCZG12D5	563	MDA100	1171
MACZG6.2D10	561	MBCZE15D	564	MC459	1122	MC2625	1122	MC14049CP	2449	MCCZG12D10	563	MDA100A	1171
MACZG9.1D	562	MBCZE15D5	564	MC459A	1122	MC2626	1122	MC14049UB	2449	MCM6665	2506	MDA101	1171
MACZG9.1D5	562	MBCZE15D10	564	MC461	1122	MC2635	1122	MC14049UBAL	2449	MCM6665AL15	2506	MDA101A	1171
MACZG9.1D10	562	MBCZF4.7D	565	MC461A	1122	MC2636	1122	MC14049UBCL	2449	MCM6665AL20	2506	MDA104	1173
MACZG12D	563	MBCZF4.7D5	565	MC462	1122	MC3302	1122	MC14049UBCP	2449	MCM6665AP15	2506	MDA104A	1173
MACZG12D5	563	MBCZF4.7D10	565	MC462A	1104	MC3302P	1712	MC14066	2466	MCM6665AP20	2506	MDA200	1171
MACZG12D10	563	MBCZF5.1D	565	MC463	1122	MC3456P	1728	MC14066B	2466	MCM6665L25	2506	MDA201	1171
MAN72A	053	MBCZF5.1D5	565	MC463A	1102	MC4558ACP1	038	MC14066BAL	2466	MCR72-1	1067	MDA204	1173
MAN76	075	MBCZF5.1D10	565	MC464	1122	MC4558BCP	038	MC14066BCL	2466	MCR72-2	1067	MDA720-1	1171
MAN74A	075	MBCZF6.2D	561	MC464A	1102	MC4558CP1	038	MC14066BCP	2466	MCR72-3	1067	MDA720-2	1104
MB-01	1171	MBCZF6.2D5	561	MC402	1122	MC4558UC	038	MC53200	1801	MCR72-4	1067	MDA920-5	1173
MB01	1104	MBCZF6.2D10	561	MC482A	1122								

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MDA942-2	1171	MDCZG12D10	563	MFE2000	2035	MI-152	1114 N2	MJE2521	2020	MM1810A	2030	MP225	1104
MDA942-4	1173	MOP173	1122	MFE2001	2035	MI-152A	1114 N2	MJE2522	2020	MM1943	2030	MP300	1104
MDA942-5	1173	MDS26	2017	MFE2093	2035	MI152A	1114	MJE2523	2020	MM1945	2016	MP400	1104
MDA942A-1	1171	MDS27	2017	MFE2094	2035	MI-152DR	1114 N1	MJE2801T	2020	MM2005-2	1617	MPS500(RECT.)	1104
MDA942A1	1171	ME0404	2023	MFE2095	2035	MI-152DS	1114 N2	MJE2940	2041	MM2266	2030	MPS49	1143
MDA942A-2	1171	ME0404-1	2023	MFE4007	2035	MI-152R	1114 N1	MJE3054	2020	MM2484	1617	MP651	1104
MDA942A-4	1173	ME0404-2	2023	MFE4008	2035	MI152R	1104 N1	MJE3055T	2020	MM2613	2009	MP1003-1	1104
MDA942A-5	1173	ME0404A	2023	MFE4009	2035	MI-152RA	1114 N1	MJE9411T	2016	MM2614	2023	MP1003-2	1104
MDA942A5	1173	ME0461	2023	MFE4010	2035	MI152RA	1114	MJF1033G	2035	MM2711	2009	MP1003-4	1104
MDA2500	1185	ME0462	2023	MFE4011	2035	MI-154	1114 N2	MJF3370	2027	MM2712	2023	MP1014-2	1617
MDCZA9.1D	562	ME-1	1617	MFE4012	2035	MI-154R	1114 N1	MJF10335	2035	MM3004	2017	MPS113	1104
MDCZA9.1D5	562	ME1D821	561	MFJ1033S	2035	MI-156	1114 N2	MK-10	2035	MM3006	1617	MP-5115	1104
MDCZA9.1D10	562	ME1D821A	561	MGD72	1122	MI-156R	1114 N1	MK10	2035	MM3726	2023	MPS566	2009
MDCZA12D	563	ME1D823	561	MGLA47	565	MI-301	1122	MK-10-2	2035	MM3734	2030	MP8111	2020
MDCZA12D5	563	ME1D823A	561	MGLA47A	565	MI301	1122	MK10-2	2035	MM3735	2030	MP8112	2020
MDCZA12D10	563	ME1D825	561	MGLA47B	565	MI402	1104	MK-10-E	2035	MM3736	2030	MPC1458C	038
MDCZA15D	564	ME1D825A	561	MGLA51	565	MI1546	2016	MK10-E	2035	MM3737	2030	MPC3500	1122
MDCZA15D5	564	ME1D827	561	MGLA51A	565	MIC7400J	1801	MK102	2035	MM3903	1617	MPC14305	1172
MDCZA15D10	564	ME1D827A	561	MGLA51B	565	MIC7400N	1801	MK585	2035	MM3904	1617	MPD200	1122
MDCZB9.1D	562	ME1D829	561	MGLA62	561	MIC7401J	1801	MK4564N-15	2506	MM3905	2023	MPD201	1122
MDCZB9.1D5	562	ME-2	2009	MGLA62A	561	MIC7401N	1801	ML723CM	1740	MM3906	2023	MPD202	1122
MDCZB9.1D10	562	ME-3	2009	MGLA62B	561	MIC7404J	1802	ML723CP	1740	MM4011	2411	MPD203	1122
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MDCZB12D5	563	ME409-02B	562	MH68	1104	MJ139A	2009	MLM139AL	1712	MM4052	2023	MPD401	1122
MDCZB12D10	563	ME501	2023	MH70	1104	MJ480	2041	MLM139L	1712	MM4429	2017	MPD402	1122
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MDCZB15D5	564	ME900	2009	MH72	1114	MJ490	2043	MLM224P	1711	MM5189	2030	MPD4066BC	2466
MDCZB15D10	564	ME900A	1617	MH73	1114	MJ491	2043	MLM239AL	1712	MM5262	2030	MPF101	2035
MDCZC9.1D	562	ME901	1617	MH500	1104	MJ-2251	2030	MLM239L	1712	MM5611AN	2411	MPF102	2062
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MDCZC15D	564	ME2001	1617	MH730	1114	MJ3480	2055	MLM339L	1712	MMCM918	2016	MPF107	2035
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MDCZD9.1D10	562	ME4002	1617	MHT2418	2030	MJ12004	2055	MLNA362	561	MMT73	2009	MPF820	2035
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MDCZF12D10	563	MEZ1-12G	563	MI15R	1104	MJE521K	2020	MM1367/25C684	2016	MN54	2009	MPS2712	2009
MDCZG4.7D	565	MEZ1-15	564	MI15RC	1104	MJE800T	2068	MM1382	2016	MN60(DIODE)	1123	MPS2713	2009
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
MPS2926	2009	MPS5137	2009	MPS6576-GREEN	2009	MPS9623F	2009	MPS9750G	2023	MR1C	1114	MRD150	2016
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MPS3397	2016	MPS6520	2009	MPS9418	2009	MPS9631	2009	MPSA20-YEL	2016	MR504	1144	MS12H	1104
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MPS3703	2023	MPS6545	2009	MPS9433T	2009	MPS9634	2009	MPSH17	2058	MR1034A	1114	MSA7505	2020
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MPS3709	2009	MPS6555	2009	MPS9483T	2023	MPS9646H	1122	MPSH30	2058	MR1035BR	1114	MSM63	2023
MPS3710	2009	MPS6556	2009	MPS9484	2023	MPS9646I	1122	MPSH31	2058	MR1036A	1114	MSM631	2023
MPS3711	2009	MPS6560	2009	MPS9600	2009	MPS9646J	1122	MPS-H32	2009	MR1036AR	1114	MSM2764RS	1251
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MPS3827	2009	MPS6563	2023	MPS9600F	2009	MPS9680H	2023	MPSH34	2016	MR1038A	1114	MSM4011RS	2411
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MPS5086	2023	MPS6574-S	2030	MPS9618	2009	MPS9696H	2009	MQ1	2009	MR2271	1104	MT021A	1104
MPS5127	2009	MPS6574-SIL	2030	MPS9618(J)	2009	MPS9700D	2009	MQ2	2009	MR2369	1114	MT022	1104
MPS5128	2016	MPS6574-Y	2030	MPS9618H	2009	MPS9700E	2009	MPS3/2	1104	MR2375	1114	MT022A	1104
MPS5129	2016	MPS6574-YEL	2030	MPS9618I	2009	MPS9700F	2009	MQ6/2	1104	MR3932	2009	MT0404	2023
MPS5131	2016	MPS6575	2009	MPS9618J	2009	MPS9700G	2009	MQ8/2	1104	MR3933	2030	MT0404-1	2023
MPS5132	2016	MPS6575GREEN	2009	MPS9623	2009	MPS9700T	2009	MQ32	1104	MR9600	1104	MT0404-2	2023
MPS5133	2009	MPS6576	2009	MPS9623C	2009	MPS9700U	2009	MQ62	1104	MR9601	1101	MT0411	2023
MPS5134	2009	MPS6576-B	2009	MPS9623C(F)	2009	MPS9750D	2023	MQ82	1104	MR9602	1104	MT0412	2023
MPS5135	2009	MPS6576-BLUE	2009	MPS9623E	2009	MPS9750E	2023	MR-1	1104	MR9803	1104	MT0413	2023
MPS5136	2009	MPS6576-G	2009	MPS9623E.G	2009	MPS9750F	2023	MR-1C	1114	MRB-20C	1104</		

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MT0462	2023	MT3011	2016	MZ4.7T10	565	MZ305B	565	MZX9.1	562	NCS9018D	2016	NL40	1104
MT0493	2058	MT4101	2009	MZ4.7T20	565	MZ305C	565	N1X	2030	ND-07001	1801	NL50	1104
MT14	1104	MT4102	2009	MZ5.1T5	565	MZ306C	561	N2A	1123	ND10	1114	NL60	1104
MT24	1104	MT4102A	2009	MZ5.1T10	565	MZ309	562	N2A(DIODE)	1123	ND10A	1114	NL100B	2016
MT44	1104	MT4103	2009	MZ5.1T20	565	MZ309A	562	N-41	1104	NE550A	1740	NN50	1104
MT64	1104	MT4104	2016	MZ6.2	561	MZ309B	562	N48	1123	NE550F	1740	NN650	2023
MT84	1114	MT4264-15	2506	MZ6.2A	561	MZ309C	562	N203A	1067	NE550N	1740	NN1199	2058
MT100	2016	MT4264-20	2506	MZ6.2B	561	MZ310	562	N203B	1067	NE555	1723	NN9017	2009
MT101	2016	MT5010	1104	MZ6.2T5	561	MZ312	563	N203C	1020	NE555JG	1723	NP50A	1104
MT102	2016	MT5011	1104	MZ6.2T10	561	MZ312A	563	N203YY	1067	NE555N	1723	NP60A	1104
MT104	1617	MT5050	1104	MZ6.2T20	561	MZ312B	563	N-756A	562	NE555P	1723	NP38P	1104
MT106	2016	MT5051	1104	MZ8.6	562	MZ312C	563	N3563	1617	NE555V	1723	NP2222AP	2009
MT107	2016	MT5100	1102	MZ-9	562	MZ409	562	N4001	2401	NE556	1728	NPCC0010	1104
MT170	1102	MT5101	1102	MZ9.1B	562	MZ409-02B	562	N4011	2411	NE556A	1728	NPCC0050	1104
MT-302	2030	MT5102	1104	MZ9.1T5	562	MZ409A	562	N4013	2413	NE556N	1728	NPCC069	2009
MT456	1101	MT5103	1104	MZ9.1T10	562	MZ409B	562	N4049	2449	NE567N	1721	NPCC069-98	2009
MT456A	1122	MT6001	2009	MZ9.1T20	562	MZ409C	562	N5406	1122	NE4304	2035	NPCC079	2023
MT457	1104	MT6002	2009	MZ-11	563	MZ412	563	N5741V	007	N-EA15X130	2016	NPCC0100	1104
MT457A	1104	MT6003	2009	MZ-12	563	MZ412A	563	N-7400A	1801	N-EA15X131	2016	NPCC06998	2016
MT458	1102	MT9001	2009	MZ12	563	MZ412B	563	N7400A	1801	N-EA15X132	2016	NPCC108	2062
MT458A	1122	MT9002	2009	MZ12A	563	MZ412C	563	N7400F	1801	N-EA15X134	2016	NPCC108A	2062
MT459	1102	MT9003	2016	MZ-12B	563	MZ414C	564	N7400N	1801	N-EA15X135	2016	NPCC115	2030
MT459A	1102	MT97N06	2072	MZ12B	563	MZ500-8	565	N7401	1801	N-EA15X136	1617	NPCC167	2016
MT461	1122	MTZ5.1(B)	565	MZ12T5	563	MZ500-9	565	N7401A	1801	N-EA15X137	1617	NPCC173	2016
MT461A	1122	MTZ5.1(C)	565	MZ12T10	563	MZ500-11	561	N7401F	1801	N-EA15X138	1617	NPCC187	2030
MT462	1122	MTZ5.1B	565	MZ12T20	563	MZ500-15	562	N7401N	1801	N-EA16X27	1123	NPCC188	2016
MT462A	1104	MTZ6.2	561	MZ15A	564	MZ500-18	563	N-7404A	1802	N-EA16X29	563	NPCC189	2030
MT463	1102	MTZ6.2(C)	561	MZ15T5	564	MZ500-20	564	N7404A	1802	N-EA16X30	1104	NPCC211N	2062
MT463A	1102	MTZ6.2BT	561	MZ15T10	564	MZ500-9	565	N7404F	1802	NF520	2035	NPCC212N	2062
MT464	1102	MTZ6.2BT-77	561	MZ15T20	564	MZ500.15	562	N7404N	1802	NF522	2035	NPCC213N	2062
MT464A	1102	MTZ9.1	562	MZ70-4.7	565	MZ500.18	563	N-7408A	1822	NF523	2035	NPCC214N	2062
MT482	1101	MTZ9.1(C)	562	MZ70-4.7A	565	MZ605	561	N7408A	1822	NF531	2035	NPCC215N	2062
MT482A	1122	MTZ12	563	MZ70-4.7B	565	MZ610	561	N7408F	1822	NF533	2035	NPCC216N	2062
MT482B	1122	MTZ15	564	MZ70-5.1	565	MZ620	561	N7408N	1822	NF550	1104	NPCC290	2030
MT483	1104	MTZ608	561	MZ70-5.1A	565	MZ640	561	N7447A	1805	NF4302	2062	NPCC312N	2035
MT483A	1104	MTZ608A	561	MZ70-5.1B	565	MZ829	561	N7447AF	1805	NF4303	2062	NPCC373	1617
MT483B	1104	MTZ613	562	MZ70-6.2	561	MZ829A	561	N7447F	1805	NF5485	2035	NPCC1075	2009
MT484	1102	MTZ613A	562	MZ70-6.2A	561	MZ939	562	N7447F	1805	NF5486	2035	NPCC0531	1122
MT484A	1122	MTZ616	563	MZ70-6.2B	561	MZ939A	562	N7490A	1808	NGP3002	1123	NP5404	2023
MT484B	1122	MTZ616A	563	MZ70-8.7	562	MZ939B	562	N7490F	1808	NGP3003	1143	NP5404A	2023
MT485	1102	MTZ618	564	MZ70-8.7A	562	MZ1000-5	565	N7490N	1808	NGP5002	561	NP56512	2009
MT485A	1102	MTZ618A	564	MZ70-8.7B	562	MZ1000-6	565	N8875F	1801	NGP5007	562	NP56513	2009
MT485B	1102	MV4	1122	MZ70-9.1	562	MZ1000-8	561	N8881F	1801	NGP5010	563	NP56514	2009
MT486	1103	MV-5	1104	MZ70-9.1A	562	MZ1000-12	562	N8881N	1801	NJ100A	2016	NP56518	2027
MT486A	1103	MV-13(BIAS)	1104	MZ70-9.1B	562	MZ-1000-15	563	NA-13	1104	IJ100B	1617	NP56519	2009
MT486B	1103	MV-13(DIO)	1122	MZ70-12	563	MZ1000-15	563	NA13	1104	NJ101B	2023	NP56520	2009
MT696	1617	MV-13(HV-46)	1144	MZ70-12A	563	MZ1000-17	564	NA22	1104	NJ102C	1617	NP56522	2009
MT697	1617	MV50748	026	MZ70-12B	565	MZ1005	565	NA25	1104	NJ107	2030	NP56523	2009
MT706	1617	MV5491	025	MZ70-15	564	MZ1006	561	NA-32	1104	NJ202B	2016	NP5A20	2016
MT706A	1617	MV57593	041	MZ70-15A	564	MZ1009	562	NA32	1104	NJM555D	1723	NR041	2009
MT706B	1617	MV57164	081	MZ70-15B	564	MZ1012	563	NA33	1104	NJM4558D	038	NR041E	2009
MT707	1617	MVA-05A	1104	MZ70MA	561	MZ2360	1122	NA-35	1104	NJM4558D-1	038	NR-071A	1617
MT708	1617	MVA-05A(DIO)	1104	MZ92-4.7	565	MZ2361	1122	NA35	1104	NJM4558B	038	NR091ET	2009
MT726	2023	MVA-05A(RECT)	1104	MZ92-4.7A	565	MZ4624	565	NA36	1104	NJM4558D-K	038	NR201AY	1617
MT743	2016	MX-3108	2009	MZ92-4.7B	565	MZ4625	565	NA-42	1104	NJM4558DM	038	NR-261AS	2009
MT744	2016	MX-3122	2058	MZ92-5.1	565	MZ4627	561	NA42	1104	NJM4558D	038	NR261AS	1617
MT753	2016	MX-3123	2058	MZ92-5.1A	565	MZL4.7A10	565	NA-45	1104	NKT4055	2043	NR271AY	1617
MT869	2023	MX-3267	2009	MZ92-5.1B	565	MZL4.7B10	565	NA45	1104	NKT10339	1617	NR401	1617
MT890	1104	MX-3634	2411	MZ92-6.0B	561	MZL5.1A10	565	NA46	1104	NKT10419	1617	NR401EG	1617
MT1038	2016	MX3634	2411	MZ92-6.0B	561	MZL5.1B10	565	NA-62	1104	NKT10439	1617	NR401EH	1617
MT1038A	2016	MX-3733	2058	MZ92-6.2	561	MZL6.2A10	561	NA-63	1104	NK10519	1617	NR421	2016
MT1039	2016	MX3733	2058	MZ92-6.2A	561	MZL6.2B10	561	NA-65	1104	NKT12329	1617	NR421DG	2016
MT1060A	2016	MX-3743	2009	MZ92-6.2B	561	MZL8.7A10	562	NA-66	1104	NKT12429	1617	NR-431AS	1617
MT1061	2016	MX-3937	2009	MZ92-8.7	562	MZL8.7B10	562	NA-74	1114	NKT13329	1617	NR441	1617
MT1061A	2016	MX-3944	2023	MZ92-8.7A	562	MZL9.1A10	562	NA74	1114	NKT13429	1617	NR441EG	1617
MT1070	2017	MX-3978	2009	MZ92-8.7B	562	MZL9.1B10	562	NA-75	1114	NKT16229	2016	NR441EN	1617
MT1131	2023	MX-4160	2009	MZ92-9.1	562	MZL12A10	563	NA75	1114	NKT20329	2023	NR461	2009
MT1131A	2023	MX-4491	2009	MZ92-9.1A	562	MZL12B10	563	NA-76	1114	NKT20339	2023	NR461AA	2016
MT1132	2023	MX-4492	2023	MZ-92-9.1B	562	MZL15A10	564	NA76	1114	NKT35219	2016	NR461AF	2016
MT1132A	2023	MX-4504	2009	MZ92-9.1B	562	MZL15B10	564	NA-84	1114	NKT80111	2062	NR-461AS	1617
MT1132B	2023	MX-4539	2058	MZ92-12	563	MZL312	563	NA84	1114	NKT80112	2062	NR461EG	2009
MT1254	2023	MX-4540	2058	MZ92-12A	563	MZ-OO	1122	NA-85	1114	NKT80113	2062	NR461EH	2009
MT1255	2023	MX-4541	2009	MZ92-12B	563	MZU4.7A10	565	NA85	1114	NKT80211	2035	NR601BT	2023
MT1256	2023	MX-4873	2009	MZ92-15	564	MZU4.7B10	565	NA-86	1114	NKT80212	2035	NR621AT	2023
MT1257	2023	MX-4972	2009	MZ92-15A	564	MZU5.1A10	565	NA86	1114	NKT80213	2035	NR621EU	2023
MT1258	2023	MX-4973	2023	MZ92-15B	564	MZU5.1B10	565	NA-104	1114	NKT80214	2035	NR631AY	2023
MT1259	2023	MX-5368	2009	MZ205	565	MZU6.2A10	561	NA104	1114	NKT80215	2062	NR7916	2035
MT1420	2023	MX-5369	2023	MZ206	561	MZU6.2B10	561	NA-105	1114	NKT80216	2062	NS200	1617
MT1613	2030	MX-5370	2009	MZ-209	562	MZU8.7A10	562	NA105	1114	NKT800112	2035	NS316	2035
MT1711	2030	MX-5371	2009	MZ209	562	MZU8.7B10	562	NA2002	703	NKT800113	2035	NS345	2016
MT1889	1123	MX-5372	2016	MZ209A	562	MZU9.1A10	562	NAM383	703	NL-2N683	2009	NS381	2016
MT1991	2023	MX5741	1723	MZ209B	562	MZU9.1B10	562	NB011EN	2009	NL5	1104	NS382	2016
MT2303	2023	MY-1	1104	MZ209C	562	MZU12A10	563	NB013	2016	NL10	1104	NS383	1617
MT2411	2023	MZ-00	1122	MZ-212	563	MZU12B10	563	NB021EV	2023	NL15	1104	NS384	1617
MT2412	2023	MZ090	562	MZ212	563	MZU15A10	564	NB021EV(N.S.)	2023	NL20	1104	NS404	2023
MT3001	2016	MZ4A	565	MZ250	562	MZU15B10	564	NB121	2023	NL25	1104	NS475	1617
MT3002	2016	MZ4.7T5	565	MZ305	565	MZU82A10	562	NC29	1123	NL30	1104	NS476	1617

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NS477	1617	NT0.6C15	564	NTE524V13	568	NTE75188	2520	OAZ207	562	OSS36503	1104	P2GE	2023
NS478	1617	NT50C4V7	565	NTE552	1104	NTE75189	2521	OAZ209	565	OSS36685	1104	P2H	2023
NS479	1617	NT55C4V7	565	NTE778A	038	NTP6V2	561	OAZ210	561	OSS-36885	1104	P2K	2027
NS480	1617	NT101	1067	NTE823	1751	NTP9V1	562	OAZ212	562	OSS36885	1104	P2L	2023
NS661	2023	NT1056	1617	NTE832	1721	NTP12	563	OAZ213	563	OV2764KFA552	1251	P2M-1	2023
NS662	2023	NT1503	2016	NTE834	1712	NTP15	564	OAZ240	565	OY101	1104	P2M-2	2023
NS663	2023	NT2222A	2009	NTE858M	1715	NU34	1123	OAZ241	565	OY5061	1104	P2M-3	2023
NS664	2023	NT5007	2023	NTE923D	1740	NV10A	1114	OAZ243	561	OY5062	1104	P2P	2023
NS665	2023	NT5512	565	NTE941M	007	OZ212A	563	OAZ247	562	OY5063	1104	P2S	2023
NS666	2023	NT6034	2016	NTE955M	1723	OZ212GR	563	OAZ269	565	OY5064	1104	P2W	2023
NS667	2023	NTC-4	2058	NTE956	1778	O4-8054-3	1104	OAZ270	561	OY5065	1104	P2Y	2023
NS668	2023	NTC-5	2016	NTE960	1770	O4-8054-4	1104	OAZ272	562	OY5066	1104	P3/2M	1104
NS731	1617	NTC-6	2023	NTE966	1771	O4-8054-7	1104	OAZ273	563	OY5067	1114	P3A5	1104
NS731A	1617	NTC-7	2009	NTE968	1772	O101	1104	OB2764K-2	1251	OZ5.1T5	565	P3B5	1104
NS732	2023	NTC-10	2023	NTE978	1728	O573510	2016	OC200	2023	OZ5.1T10	565	P3C	2023
NS732A	2023	NTC-11	2009	NTE987	1711	O575005	1123	OC201	2023	OZ6.2T5	561	P3C5	1104
NS733	1617	NTC-12	2055	NTE1155	705	OA2	1101	OC202	2023	OZ6.2T10	561	P3D5	1104
NS733A	1617	NTC-13	1123	NTE1232	703	OA6	1123	OC203	2023	OZ12T5	563	P3W	2043
NS734	1617	NTC-14	1123	NTE3007	026	OA7	1123	OC204	2023	OZ12T10	563	P3Z	2023
NS734A	1617	NTC-15	1122	NTE3012	033	OA9	1123	OC205	2023	OZ15T5	564	P4A5	1104
NS949	1617	NTC-17	1104	NTE3022	041	OA9D	1123	OC206	2023	OZ15T10	564	P4B5	1104
NS1000	1101	NTC-19	1104	NTE3026	025	OA10	1141	OC207	2023	P0100AD	1067	P4C	2023
NS1001	2023	NTE2V130	570	NTE3030	036	OA47	1123	OC430	2023	P0100BA	1067	P4C5	1104
NS1356	2016	NTE85	2009	NTE3047	134	OA50	1123	OC430K	2023	P0100BB	1067	P4D5	1104
NS1500	1617	NTE107	2016	NTE3056	075	OA-70	1123	OC440	2023	P0100BD	1067	P4G	2023
NS1510	2016	NTE108	2016	NTE3061	053	OA70	1123	OC440K	2023	P0100CD	1020	P4J148	2020
NS1672	2023	NTE108-1	2016	NTE3115	081	OA71	1123	OC443	2023	P0100DA	1020	P4K	2023
NS1673	2023	NTE109	1123	NTE4001B	2401	OA71C	1123	OC443K	2023	P0100DB	1020	P4P	2023
NS1674	2023	NTE110MP	1123	NTE4011B	2411	OA72	1123	OC445	2023	P0100DD	1020	P4R	2023
NS1675	2023	NTE114	1101	NTE4013B	2413	OA73	1123	OC445K	2023	P0102AA	1067	P4W	2027
NS1861	2023	NTE115	1101	NTE4017B	2417	OA73C	1123	OC449	2023	P0102AB	1067	P4Y	2023
NS1862	2023	NTE116	1104	NTE4049	2449	OA74	1123	OC449K	2023	P0102BA	1067	P4Z	2030
NS1863	2023	NTE117	1114	NTE4066B	2466	OA74A	1123	OC450	2023	P0102BB	1067	P5A5	1104
NS1864	2023	NTE120	1101	NTE4164	2506	OA79	1123	OC460	2023	P0102CA	1020	P5B	2023
NS1972	1617	NTE123	1617	NTE5009A	565	OA81	1123	OC460K	2023	P0102CB	1020	P5B5	1104
NS1973	1617	NTE123A	1617	NTE5010A	565	OA81C	1123	OC463	2023	P0102DA	1020	P5C	2023
NS1974	1617	NTE123AP	2009	NTE5013A	561	OA85	1123	OC463K	2023	P0102DB	1020	P5C5	1104
NS1975	1617	NTE125	1114	NTE5017A	562	OA85C	1123	OC465	2023	P0103AD	1067	P5D	2023
NS2000	1114	NTE128	2030	NTE5018A	562	OA-90	1123	OC465K	2023	P0103BA	1067	P5D5	1104
NS2006	1114	NTE130	2041	NTE5021A	563	OA90	1123	OC466	2023	P0103BB	1067	P5H	2027
NS2007	1114	NTE132	2035	NTE5024A	564	OA-90(G)	1123	OC466K	2023	P0103BD	1067	P5U	2027
NS2008	1114	NTE133	2035	NTE5069A	565	OA90-FM	1123	OC467	2023	P0103CD	1020	P6/2H	1104
NS2100	2030	NTE135A	565	NTE5070A	561	OA90AG	1123	OC467K	2023	P0103DA	1020	P6A5	1104
NS2101	2030	NTE137A	561	NTE5073A	562	OA90FM	1123	OC468	2023	P0103DB	1020	P6B5	1104
NS3000	1114	NTE139A	562	NTE5304	1173	OA90FV	1123	OC468K	2023	P0103DD	1020	P6C5	1104
NS3006	1114	NTE141A	563	NTE5400	1067	OA90G	1123	OC469	2023	P1A5	1104	P6D5	1104
NS3007	1114	NTE142A	563	NTE5401	1067	OA90GA	1123	OC469K	2023	P1B	2023	P6RP8	1114
NS3008	1114	NTE145A	564	NTE5402	1067	OA90LF	1123	OC470	2023	P1B5	1104	P6RP10	1114
NS3039	2016	NTE152	2020	NTE5403	1067	OA90M	1123	OC470K	2023	P1C	2023	P7A5	1104
NS3040	2016	NTE153	2027	NTE5404	1067	OA90MLF	1123	OC700	2023	P1C5	1104	P7B5	1104
NS3041	2016	NTE156	1114	NTE5405	1020	OA90Z	1123	OC700A	2023	P1CG	2023	P7C5	1104
NS3300	2016	NTE159	2023	NTE5408	1067	OA91	1123	OC700B	2023	P1D	2023	P7D5	1104
NS3903	1617	NTE159MCP	2009&23	NTE5409	1020	OA92	1123	OC702	2023	P1D5	1104	P8/2H	1104
NS3904	1617	NTE161	2016	NTE5411	1067	OA-95	1122	OC702A	2023	P1E	2043	P8H	2027
NS3905	2023	NTE164	2055	NTE5412	1067	OA95	1123	OC702B	2023	P1E-1BLK	2043	P16	1101
NS3906	2023	NTE165	2055	NTE5413	1067	OA99	1123	OC704	2023	P1E-1BLU	2043	P17	1101
NS6001	2023	NTE166	1171	NTE5414	1067	OA126/5	565	OC740	2023	P1E-1GRN	2043	P20	1104
NS6062	2023	NTE168	1173	NTE5415	1020	OA126/12	563	OC740G	2023	P1E-1RED	2043	P32H	1104
NS6063	2023	NTE177	1122	NTE5452	1067	OA127	1104	OC740M	2023	P1E-1VIO	2043	P62M	1104
NS6064	2023	NTE178MP	1122	NTE5453	1067	OA128	1104	OC740O	2023	P1E-2BLK	2043	P67	2023
NS6065	2023	NTE186	2017	NTE5454	1067	OA129	1104	OC742	2023	P1E-2BLU	2043	P82H	1104
NS6112	2016	NTE196	2020	NTE5455	1067	OA130	1104	OC742G	2023	P1E-2GRN	2043	P100	1104
NS6113	2016	NTE199	2016	NTE5456	1020	OA131	1104	OC742M	2023	P1E-2RED	2043	P100A	1104
NS6114	1617	NTE219	2043	NTE5457	1020	OA132	1104	OC742O	2023	P1E-2VIO	2043	P1008	1104
NS6115	1617	NTE229	2058	NTE5473	1020	OA134Q	1123	OC7400	2023	P1E-3BLK	2043	P100D	1104
NS6207	1617	NTE233	2009	NTE5511	1067	OA150	1123	OC7420	2023	P1E-3BLU	2043	P100G	1104
NS6210	1617	NTE234	2023	NTE5512	1020	OA159	1123	OF156	1122	P1E-3GRN	2043	P100I	1104
NS6211	2023	NTE238	2055	NTE5608	1000	OA160	1123	OF160	1104	P1E-3RED	2043	P150A	1104
NS6241	2023	NTE241	2020	NTE5629	1000	OA161	1123	OF162	1122	P1E-3VIO	2043	P150B	1104
NS7261	2016	NTE261	2068	NTE5633	1000	OA172	1123	OF164	1104	P1H	2023	P150D	1104
NS7262	1617	NTE280	2041	NTE5640	1000	OA174	1123	OF173	1123	P1J	2023	P150G	1104
NS7267	2016	NTE281	2043	NTE5641	1000	OA180	1104	OF305	1123	P1N	2023	P150I	1104
NS9400	2030	NTE289	2009	NTE5642	1000	OA182	1123	OF449	1122	P1N-1	2023	P200	1104
NS9420	2030	NTE289A	2009	NTE5650	1000	OA200	1122	ON67A	1123	P1N-2	2023	P300A	1141
NS9500	2030	NTE290	2023	NTE5651	1000	OA202	1122	ON271	2009	P1N-3	2023	P300B	1143
NS9540	2030	NTE290A	2023	NTE5652	1000	OA205	1122	ON274	1617	P1P	2023	P300D	1143
NS9710	2016	NTE291	2020	NTE5800	1141	OA210	1104	OS-1D	1104	P1P-1	2023	P300G	1144
NS9728	2030	NTE312	2035	NTE5801	1143	OA211	1104	OS-4D	1104	P1V-4	2027	P300GC1	1104
NS9729	2030	NTE319	2009	NTE5802	1143	OA214	1104	OS-6D	1104	P1W	2023	P346	2016
NS9730	2030	NTE319P	2009	NTE5803	1144	OA541	1123	OS-8D	1114	P2A	2023	P400	1104
NS9731	2030	NTE331	2020	NTE5804	1144	OA909	1123	OS70	1123	P2A5	1104	P580	1114
NS45006	2009	NTE340	2009	NTE7400	1801	OA2002	1122	OSS36G	2009	P2B	2027	P600	1104
NSDU01A	2017	NTE377	2020	NTE7401	1801	OA2005	1122	OS16308	1104	P2B5	1104	P800	1114
NSL5057	041	NTE451	2062	NTE7404	1802	OA12612	563	OSS-16308	1104	P2C5	1104	P1000	1114
NSL5076A	026	NTE457	2062	NTE7408	1822	OAZ200	565	OSS16308	1123	P2D5	1104	P1000A	2023
NS51021	1114	NTE507	1101	NTE7447	1805	OAZ201	565	OSS-16685	1123	P2E	1104	P1055	1123
NT0.6C12	563	NTE519	1122	NTE7490	1808	OAZ203	561	OSS16685	1123	P2G	2023	P1087	2035

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P1087E	2035	PA9267	561	PD6048	565	PET8004	1617	PL1031	2023	PN930	2009	PR804	565
P1172	1122	PA10556	1104	PD6050	561	PET8005	1617	PL1033	2023	PN930(NSC)	2009	PR5400	1114
P1172-1	1122	PA10887	1104	PD6054	562	PET8005A	1617	PL1034	2023	PN930(NTLB)	2009	PR5401	1114
P2221	2009	PB6013	2023	PD6057	563	PET8006	1617	PL1051	2016	PN1613	2030	PR5402	1114
P2221A	2009	PB6013A	2023	PD6059	564	PET8006A	1617	PL1052	1617	PN1711	2030	PR5403	1114
P2222	2009	PB6013B	2023	PD6202	565	PET8007	1617	PL1053	2016	PN2221A	2009	PR5404	1114
P2222A	2009	PB6014	2023	PD6209	562	PET8007A	1617	PL1054	1617	PN2222	2009	PR5405	1114
P2271	2041	PB6014A	2023	PDR25	1101	PET8101	2016	PL1055	2016	PN2222A	2009	PR5406	1114
P2440	1114	PBC107	2016	PDR50	1101	PET8200	2030	PL1061	2016	PN2369	2009	PR5407	1114
P2906	2023	PBC107A	2016	PE210	2058	PET8201	2016	PL1062	2016	PN2369A	2009	PR5408	1114
P2906A	2023	PBC107B	2016	PE210C	2058	PET8202	2030	PL1063	2016	PN2484	2016	PR-55345	018
P2907	2023	PBC108	2016	PE254A	2058	PET8203	2030	PL1064	2016	PN2904	2023	PR55345	018
P2907A	2023	PBC108A	2016	PE254B	2058	PET8204	2009	PL1065	2016	PN2904A	2023	PR53017	565
P3139	2041	PBC108B	2016	PE254C	2058	PET8250	2016	PL1066	2016	PN2905A	2023	PRT-101	1617
P4069	2030	PBC108C	2016	PE401	1104	PET8251	2016	PL1067	2016	PN2906	2023	PRT-104	1617
P4326	1122	PBC109	2016	PE401N	1104	PET8300	2016	PL1081	2016	PN2906A	2023	PRT-104-1	1617
P5100	1114	PBC109B	2016	PE402	1104	PET8301	2023	PL1082	2016	PN2907	2023	PRT-104-2	1617
P5149	2041	PBC109C	2016	PE403	1104	PET8303	2023	PL1083	2030	PN2907A	2023	PRT-104-3	1617
P5152	1617	PBC182	2016	PE404	1104	PET8304	2023	PL1084	2030	PN2908	2023	PRT-104-4	2030
P5153	1617	PBC183	2009	PE405	1104	PET9001	2009	PL1091	2035	PN3250	2023	PS005	1104
P-6006	1122	PBE3322	1123	PE406	1104	PET9002	1617	PL1092	2035	PN3250A	2023	PS010	1104
P7109	1114	PBM6004	2023	PE407	1114	PET9021	2030	PL1093	2035	PN3251	2023	PS015	1104
P7394	1122	PC02P1/2	1104	PE408	1114	PET9022	2030	PL1094	2035	PN3251A	2023	PS020	1104
P8393	1617	PC0211/2	1104	PE409	1104	PG4001	1101	PL1101	2023	PN3563	2016	PS025	1104
P8394	1617	PC0.2P11/2	1104	PE410	1114	PG4002	1104	PL1102	2023	PN3564	2016	PS030	1104
P9459	1104	PC100	2020	PE501	1104	PG4003	1102	PL1103	2023	PN3565	2009	PS035	1104
P10115	1104	PC110	2020	PE502	1104	PG4004	1103	PL1104	2023	PN3566	2009	PS040	1104
P10115A	1114	PC-713U	2020	PE503	1104	PG4005	1104	PL1111	2016	PN3638	2023	PS050	1104
P10155	1123	PC1007	2023	PE504	1104	PG4006	1114	PL1112	2016	PN3638A	2023	PS060	1104
P10156	1104	PC1007A	2023	PE505	1104	PG4007	1114	PL1113	2016	PN3641	2009	PS0125	1104
P10156A	1114	PC1008	2023	PE506	1104	PGR-24	1143	PL4001L	1101	PN3642	2009	PS1A	1104
P21316	1104	PC1008A	2023	PE507	1114	PH9-221	1171	PL4003L	1102	PN3643	2009	PS-1.5-2	1114
P21317	1104	PC1008B	2023	PE508	1114	PH9D5	1114	PL4004L	1103	PN3644	2023	PS105	1104
P21344	562	PC4004	1104	PE509	1114	PH9D522/11	1173	PL4006L	1114	PN3645	2023	PS110	1104
P21443	1104	PC7805H	1770	PE510	1114	PH9D522M	1171	PL4007L	1114	PN3662	2016	PS120	1104
P38103/507-10	564	PC17805H	1770	PE3001	2009	PH9D5221	1171	PL4021	2009	PN3663	2016	PS125	1104
P633024C(SYLVANIA)		PC-20066	2016	PE3002	2016	PH9D522	1104	PL4051	2009	PN3691	2009	PS130	1104
	2030	PD05	1171	PE3015	2009	PH9D5221	1171	PL4052	2009	PN3692	2009	PS135	1104
P633024G	2030	PD10	1171	PE5010	2009	PH11C22/1	1144	PL4053	2009	PN3694	2009	PS140	1104
PA069	1104	PD40	1173	PE5013	2009	PH25C22	1104	PL4054	2009	PN4013	2009	PS150	1104
PA070	1104	PD101	1104	PE5015	2009	PH25C22/1	1104	PL4055	2009	PN4121	2023	PS160	1104
PA071	1104	PD102	1104	PE5025	2009	PH25C22/21	1104	PL4061	2016	PN4122	2023	PS405	1104
PA3	1104	PD103	1104	PE5030	2009	PH25C221	1171	PL4062	2016	PN4140	2009	PS410	1104
PA9D522/1	1171	PD104	1104	PE5030A	2009	PH109	1114	PLE-48	2020	PN4141	2009	PS415	1104
PA200	1104	PD105	1104	PE5030B	2009	PH204	1104	PLQ0.8	1104	PN4142	2023	PS420	1104
PA300	1104	PD106	1104	PE5031	2016	PH208	1104	PM101-1	1102 N2	PN4143	2023	PS425	1104
PA305	1104	PD107	1104	PEP2	1617	PH404	1104	PM101-2	1102 N2	PN4248	2023	PS430	1104
PA305A	1104	PD107A	1104	PEP5	1617	PH1021	1104	PM101-4	1102 N2	PN4249	2023	PS435	1104
PA310	1104	PD108	1104	PEP6	1617	PIC	2023	PM101-6	1102 N2	PN4258	2023	PS440	1104
PA310A	1104	PD110	1104	PEP7	1617	PL6V2Z	561	PM102-1	1104 N1	PN4275	2009	PS450	1104
PA315	1104	PD111	1104	PEP8	1617	PL9V1Z	562	PM102-2	1104 N1	PN4354	2023	PS460	1104
PA315A	1104	PD114	1114	PEP9	1617	PL12Z	563	PM102-4	1104 N1	PN4355	2023	PS603	1104
PA-320	1104	PD115	1114	PEP1001	2016	PL152	564	PM102-6	1104 N1	PN4356	2023	PS604	1104
PA320	1104	PD116	1114	PEP2001	2030	PL-150-001-9-00	1123	PM194	2016	PN4416	2035	PS605	1104
PA320A	1104	PD122	1104	PET-101-1	2016	PL-150-001-9-005	1123	PM195	2016	PN4423	2023	PS609	1104
PA320B	1104	PD125	1104	PET1002	1617	PL-150-006-9-001	1123	PM5006	2009	PN4916	2023	PS610	1104
PA325	1104	PD129	1104	PET1075	2016	PL-151-035-9-001	1122	PMT011	2030	PN5127	2009	PS611	1104
PA325A	1104	PD130	1104	PET2001	1617	PL-151-040-9-001	1122	PMT012	2030	PN5128	2009	PS615	1104
PA325B	1104	PD131	1104	PET2002	1617	PL-151-040-9-002	1122	PMT013	2009	PN5129	2009	PS616	1104
PA330	1104	PD132	1104	PET3001	2016	PL-151-040-9-003	1104	PMT014	2009	PN5130	2016	PS617	1104
PA330A	1104	PD133	1104	PET3002	2016	PL-151-045-9-001	1104	PMT016	2030	PN5131	2009	PS621	1104
PA330B	1104	PD134	1104	PET3702	2023	PL-151-045-9-002	1122	PMT018	2030	PN5132	2009	PS622	1104
PA340	1104	PD135	1104	PET3703	2023	PL-151-045-9-003	1123	PMT019	2030	PN5133	2009	PS623	1104
PA340A	1104	PD154	1104	PET3704	1617	PL-151-045-9-004	1104	PMT020	2030	PN5134	2009	PS627	1104
PA340B	1104	PD155	1104	PET3705	2009	PL-152-044-9-001	562	PMT023	2016	PN5135	2009	PS628	1104
PA350	1104	PD910	1104	PET3706	1617	PL-152-051-9-001	562	PMT024	2030	PN5136	2009	PS629	1104
PA350A	1104	PD913	1114	PET3903	2009	PL-152-052-9-002	561	PMT111	2009	PN5137	2009	PS632	1104
PA360	1104	PD914	1114	PET3904	2009	PL-172-010-9-001	2020	PMT112	2030	PN5138	2023	PS633	1104
PA360A	1104	PD915	1114	PET3905	2023	PL-172-014-9-001	2020	PMT113	2009	PN5139	2016	PS636	1104
PA380	1114	PD916	1114	PET3906	2023	PL-176-025-9-001	2009	PMT114	2030	PN5142	2023	PS637	1104
PA400	1104	PD1001	2009	PET4001	1617	PL-176-029-9-001	1617	PMT116	2030	PN5143	2023	PS1140	1114
PA600	1104	PD1002	2009	PET4002	1617	PL-176-042-9-001	2009	PMT118	2030	PN5179	2058	PS1325	561
PA1000	2023	PD1011	1171	PET4003	2016	PL-176-042-9-002	2009	PMT119	2030	PO93	1123	PS2207	1104
PA1001	2023	PD4066BC	2466	PET4058	2023	PL-176-042-9-003	2009	PMT120	2030	PP3000	2041	PS2208	1104
PA7001/521	1801	PD6006	565	PET4059	2023	PL-176-042-9-004	2016	PMT1767	2016	PP3003	2041	PS2209	1104
PA7001/526	1801	PD6006A	565	PET4060	2023	PL-176-042-9-006	2009	PN66	2020	PP3006	2041	PS2247	1104
PA7001/527	1802	PD6007	565	PET4061	2023	PL-176-047-9-002	2009	PN70	2023	PP3008	2041	PS2249	1104
PA7615	1104	PD6007A	565	PET4062	2023	PL-176-049-9-002	2009	PN71	2023	PP3250	2020	PS2346	1114
PA8260	2016	PD6009	561	PET4124	2009	PL-177-006-9-002	2023	PN72	2023	PP3310	2020	PS2347	1114
PA8261	564	PD6009A	561	PET4125	2023	PL-182-014-9-002(FET)	1617	PN107	1617	PP3312	2020	PS2411	1104
PA8543	2016	PD6013	562	PET4126	2023		2035	PN108	2009	PPR1006	2017	PS2412	1104
PA8645	1104	PD6013A	562	PET6001	1617	PL1021	2016	PN109	2009	PPR1008	2017	PS2413	1104
PA8900	2017	PD6016	563	PET6002	1617	PL1022	2016	PN204	1104	PPT720	1617	PS2415	1104
PA9004	2016	PD6016A	563	PET8000	1617	PL1023	2016	PN350	2041	PR515	565	PS2416	1114
PA9005	2016	PD6018	564	PET8001	1617	PL1024	2016	PN917	2016	PR605	565	PS2417	1114
PA9006	1617	PD6018A	564	PET8002	1617	PL1025	2016	PN918	2016	PR617	563	PS4559	1104
PA9160	1104	PD6047	565	PET8003	1617	PL1026	2016	PN929	2016	PR620	564	PS4560	1103

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PS4725	1104	PT3500	1617	Q-01169C	2030	Q5077(,25A608E)	2023	Q5183(,25C945A(P))	2009	QA-19	1617	QRT-176	2035		
PS5175	2009	PT3502	2030	Q-01184R	1617	Q5077(,25A608(F))	2023	QA-20	2035	QRT-187	2009	QRT-187	2009		
PS5300	1103	PT3503	2017	Q-02115C	2009	Q5077(,25A608F)	2023	Q5183(,25C945A(Q))	2023	QA-21	2023	QRT-194	2020		
PS5301	1103	PT4690	2017	Q-03115C	2009	Q5077A	2023	2009	QA105R	565	QRT-200	1123			
PS5302	1103	PT4800	1617	Q-04115C	2009	Q5077A(,25A608)	2023	Q5183(,25C945A(R))	2009	QA1065B	561	QRT-203	1114		
PS5303	1104	PT4816	2016	Q-05115C	2009	Q5077A(,25A608A)	2023	QA112R1	563	QRT-210	1114				
PS5304	1104	PT4830	2016	Q-06115C	2009	2023	Q5183(,25C945A)	2009	QA112RI	563	QRT-212	1104			
PS6468	565	PT5693	2020	Q-07115C	2009	Q5077A(,25A608AE)	2023	Q5183(,25C945A(Q))	2009	QA112RN-1	563	QRT-213	1104		
PS8905	565	PT6618	2017	Q-08115C	2009	2023	2009	QA112RN-2	563	QRT-214	1104				
PS8906	565	PT6669	2017	Q-09115C	2009	Q5077A(,25A608E)	2023	Q5183(,25C945P)	2009	QA205AB	565	QRT-215	1104		
PS8908	561	PT6696	2017	Q0V60538	1617	Q5077A(,25A608F)	2023	Q5183(,25C945Q)	2009	QA205GV3	565	QRT-218	1122		
PS8912	562	PT72130	1104	Q1B	1104	Q5077E	2023	Q5183C	2009	QB01-05M	565	QRT-220	1101		
PS8915	563	PT72130-1	1144	Q1H	1104	Q5077E(,25A608(F))	2023	Q5183C(,25C945Q)	2009	QB01-15ZB	564	QRT-222	1101		
PS8917	564	PTC101	2030	Q-1N914	1122	2023	2023	QB106P	561	QRT-223	1101				
PS10019B	562	PTC103	2023	Q2	2016	Q5077EA	2023	Q5183C(,25C945R)	2009	QB112	563	QRT-235	565		
PS10022B	563	PTC115	2009	Q-2N5225	2009	Q5077EA(,25A608A(E))	2023	Q5183P	2009	QB115ZB	564	QRT-237	561		
PS10024B	564	PTC119	2041	Q-2N5226	2023	2023	Q5205	2023	QB115ZBV	564	QRT-240	562			
PS10063	562	PTC121	2009	Q3	2016	Q5077EA(,25A608A(F))	2023	Q5205(,25A509Y)	2023	QB115ZD	564	QRT-243	563		
PS10066	563	PTC126	2016	Q3/2	1104	2023	Q5207	2023	QC0042	1771	QRT-245	564			
PS10068	564	PTC129A	2055	Q4B	1104	Q5078Z	2009	Q5207Z	2055	QC0343	2413	QRT-263	1123		
PSA20	2009	PTC130	2055	Q5	2016	Q5083B	2041	Q5209(,25C683P)	2016	QD-2M205XE	565	QRT-267	1617		
PSA56	2023	PTC131	2023	Q6/2	1104	Q5094Z	2055	Q5209(,25C683Q)	2016	QD-G1N60PXT	1123	QRT-268	1617		
PSA70	2023	PTC132	2016	Q7-C0710XBE	2009	Q5095ZEE	2055	Q6562	2023	QD-G1N60XXT	1123	QRT-269	2023		
PT-029	2020	PTC136	1617	Q7-C0735XBT	2009	Q5099E	2030	Q6562(,25A1015(G))	2023	QD-G1532XXT	1123	QRT-270	2023		
PT-3	1104	PTC139	2009	Q7-C1318XDN	2030	Q5099F	2030	2023	2023	QD-S15953XA	1122	QRT-271	2023		
PT3	1104	PTC140	2041	Q7-K0033XBE	2035	Q5102	2023	Q6562(,25A1015(O))	2023	QD-SMA150XN	1122	QRT-300	2009		
PT5	1104	PTC143	2017	Q8/2	1104	Q5102(,25A564(Q))	2023	Q6562(,25A1015(O))	2023	QD-S51555XT	1122	QRT-302	2009		
PT-5B	1104	PTC146	2055	Q32	1104	2023	2023	Q6562(,25A1015(Y))	2023	QD-S51885XT	1102	QRT-303	2023		
PT5B	1104	PTC149	2043	Q-35	1617	Q5102(,25A564(R))	2023	2023	2023	QD-SSR1KX4P	1104	QRT-308	2009		
PT6D22/1	1171	PTC151	2035	Q-36	2023	2023	2023	Q6562(,25A1015G)	2023	QD-S5553XXA	1122	QRT-309	2009		
PT6D22-1	1171	PTC152	2035	Q49	1123	Q5102(,25A564P)	2023	2023	2023	QD-SV06CXXB	1102	QRT-312	1617		
PT9C22/1	1114	PTC154	2020	Q50	1123	Q5102(,25A564R)	2023	Q6562(,25A1015Y)	2023	QD-ZMZ205XE	565	QRT-313	2016		
PT-505	1104	PTC157	2027	Q51	1123	Q5102(,25A564S)	2023	Q6562G	2023	QDZMZ205XE	565	QS054	2009		
PT505	1104	PTC161	2035	Q52	1101	Q5102A	2023	Q6562G(,25A1015(O))	2023	QD-ZMZ306CE	561	QS-0254	2009		
PT-510	1104	PTC162	2027	Q53	1104	Q5102A(,25A564(Q))	2023	Q6562G(,25A1015(O))	2023	QD-ZMZ409BE	562	QS0254	2009		
PT510	1104	PTC163	2020	Q54	1104	2023	2023	Q6562G(,25A1015(Y))	2023	QD-ZRD9EXAA	562	QS102AA	1104		
PT-515	1104	PTC167	2020	Q55	1104	Q5102A(,25A564(R))	2023	2023	2023	QD-ZRD56EAA	561	QS102BA	1104		
PT-520	1104	PTC169	2020	Q56	1104	2023	2023	Q6565	2009	QG0254	2009	QS102CA	1104		
PT520	1104	PTC195	2020	Q57	1104	Q5102A(,25A564A(Q))	2023	Q6565(,25A1015G)	2023	QKT-0033XBE	2035	QS102DA	1104		
PT-525	1104	PTC201	1144	Q58	1104	2023	2023	2023	2023	QKT0033XBE	2035	QS102EA	1104		
PT525	1104	PTC202	1104	Q59	1104	Q5102A(,25A564A(R))	2023	Q6565(,25A1015Y)	2023	QOV60529	2009	QS102FA	1104		
PT-530	1104	PTC203	1114	Q60	1104	2023	2023	Q6565(,25C1815(G))	2009	QOV60530	1617	QS102GA	1104		
PT530	1104	PTC204	1114	Q61	1104	Q5102A(,25A564AQ)	2023	2009	2009	QP-3L	2027	QS102HA	1104		
PT-540	1104	PTC205	1114	Q62	1104	2023	2023	Q6565(,25C1815(O))	2009	QP-8	2041	QS102MA	1104		
PT540	1104	PTC206	1123	Q82	1104	Q5102A(,25A564AR)	2023	2009	2009	QP8	2041	QS102MA	1104		
PT-550	1104	PTC206M	1123	Q301	2016	2023	2023	Q6565(,25C1815(Y))	2009	QP-B-P	2041	QS102PA	1114		
PT550	1104	PTC207	1123	Q2001MS2	1000	Q5102A(,25A564Q)	2023	2009	2009	QP-11	2041	QS102RA	1114		
PT-560	1104	PTC207M	1123	Q2001P	1000	2023	2023	Q6565(,25C1815G)	2009	QP-12	2041	QS102TA	1114		
PT560	1104	PTC214	565	Q2001PT	1000	Q5102A(,25A564R)	2023	Q6565(,25C1815Y)	2009	QQ-M07205AT	705	QS102VA	1114		
PT580	1114	PTC214M	1122	Q2004F31	1000	2023	2023	Q6627	2062	QQM07205AT	705	QS132AA	1114		
PT600	2017	PTC215	565	Q2004F41	1000	Q5102P	2023	Q6780	2009	QQ-M07205AT	705	QS132BA	1114		
PT601	2017	PTC401	1173	Q2006AT	1000	Q5102Q	2023	Q6780Z	2009	QOV60529	2030	QS132CA	1114		
PT612	2030	PTC403	1104	Q2006BT	1000	Q5102QA	2023	Q7219	038	QRF-2	2030	QS132DA	1114		
PT627	1617	PTC404	1101	Q2006T	1000	Q5102QA(,25A564A(R))	2023	Q7393	2413	QRF3	2035	QS132EA	1114		
PT665	2020	PTC405	1104 N7	Q2015L5	1000	2023	2023	Q7478A	2466	QRG-3	2035	QS132FA	1114		
PT703	1617	PTC406	1122	Q4001L4	1000	Q5102R	2023	Q7652	2466	QRT-100	1617	QS132GA	1114		
PT720	1617	PTC503	561	Q4001M	1000	Q5110Z	2041	Q7653A	2466	QRT-101	2023	QS132HA	1114		
PT850	2030	PTC505	562	Q4001P	1000	Q5111ZK	2055	Q-10115C	2009	QRT-102	1617	QS132KA	1114		
PT850A	2030	PTC507	563	Q4003P3	1000	Q5116C	2023	Q-11115C	2020	QRT-102A	1617	QS132MA	1114		
PT851	1617	PTC509	564	Q4006F41	1000	Q5116CA	2023	Q-12115C	2020	QRT-103	2023	QS132PA	1114		
PT886	1617	PTC651	1067	Q5053	2009	Q5121O	2016	Q-13115C	2009	QRT-103A	2023	QS132RA	1114		
PT887	1617	PTC736	038	Q5053(,25C536(E))	2009	Q5121Q	2009	Q-14115C	2009	QRT-104	2016	QS132TA	1114		
PT888	2030	PTC780	705	Q5053(,25C536(F))	2009	Q5121R	2016	Q-15115C	2009	QRT-105	2016	QS132VA	1114		
PT896	2030	PTC906	2020	Q5053(,25C536(G))	2009	Q5123E	2009	Q-16115C	2009	QRT-106	2023	QS316	2023		
PT897	1617	PV6C22	1104	2009	2009	Q5123F	2009	Q-20115C	1123	QRT-107	2009	QS751AA	1104		
PT898	1617	PV-8	1104	Q5053(,25C536)	2009	Q5124	2009	Q-21115C	1122	QRT-108	2016	QS751BA	1104		
PT1544	2030	PV8	1104	Q5053(,25C536F)	2009	Q5132Z	2055	Q-22115C	1123	QRT-108A	2009	QS751CA	1104		
PT1545	2030	PV1043	1122	Q5053(,25C536G)	2009	Q5135	2023	Q-23115C	1122	QRT-109	2009	QS751DA	1104		
PT1558	1617	PY-5	1104	Q5053(,25C536NP(E))	2009	Q5135(,25A495-O)	2023	Q-25115C	562	QRT-112	2016	QS751EA	1104		
PT1559	1617	Q-00169C	2035	2009	2009	Q5135-OY	2023	Q-26115C	1104	QRT-113	2009	QS751FA	1104		
PT1610	1617	Q00749C	2035	Q5053(,25C536NP(F))	2009	Q5140XP	2055	Q35242	2009	QRT-126	2023	QS751GA	1104		
PT1835	1617	Q-00184R	2035	2009	2009	Q5140Z	2055	Q35259	2016	QRT-126A	2023	QS751HA	1104		
PT1836	1617	Q00184R	2035	Q5053(,25C536NP(G))	2009	Q5140ZX O	2055	Q50787	2009	QRT-131	2041	QS751KA	1104		
PT1837	1617	Q-00269C	2009	2009	2009	Q5140ZX P	2055	Q50787Z	2009	QRT-134	2015	QS751MA	1104		
PT1941	2041	Q-00284R	2016	Q5053(,25C536NP)	2009	Q5140ZX Q	2055	Q5121O	2016	QRT-135	2016	QS751PA	1114		
PT2575	1617	Q-00369C	2009	Q5053A	2009	Q5140ZX R	2055	QA01-065B	561	QRT-139	2055	QS751RA	1114		
PT2620	2017	Q-00384R	2009	Q5053A(,25C536AG)	2009	Q5149	2020	QA01-07R	564	QRT-140	2055	QS751TA	1114		
PT2635	2020	Q-00469C	2009	2009	2009	Q5149(,25D313RA(E))	2020	QA01-12S	563	QRT-146	2020	QS751VA	1114		
PT2640	2017														

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QT0095(.25A933[R])		R0070	1143	R1001	1067	R8067	1617	RA-1V	1104	RC1458DE	038	RD5R1EB	565
	2023	R0071	1143	R1002	1067	R8068	1617	RA-1Z	1104	RC1458DN	038	RD5R1EB2	565
QT0095(.25A933[S])		R0072	1144	R1003	1067	R8069	1617	RA1Z	1104	RC1458NB	038	RD5R1EBB1	565
	2023	R0080	1114	R1004	1067	R8070	1617	RA-1ZC	1104	RC1700	2041	RD5R1JB1	565
QT0095(.25A933R)	2023	R0081	1114	R1005	1067	R8115	1617	RA1ZC	1104	RC2041M	038	RD5R1JB3	565
QT0100	2009	R0082	1114	R1019	2023	R8116	1617	RA-2	1114	RC2043NB	038	RD5.1(E)B3	565
QT0100(.25C1740[Q])		R0086	1114	R1035	1104	R8117	1617	RA2	1114	RC2270	2030	RD5.1E	565
	2009	R0090	1114	R1106	1123	R8118	1617	RA2A	1114	RC3302DB	1712	RD-5.1EB	565
QT0100(.25C1740[R])		R0091	1114	R1107	1123	R8119	1617	RA-2C	1114	RC4558	038	RD5.1E-B	565
	2009	R0094	1114	R1109	1123	R8120	1617	RA2C	1114	RC4558DE	038	RD5.1EB	565
QT0100(.25C1740[S])		R0096	1114	R1215(HEP)	1067	R8219	1123	RA102AA	1104	RC4558BJ	038	RD5.1EB(2)	565
	2009	R0097	1114	R1217(HEP)	1067	R8223	1617	RA102BA	1104	RC4558NB	038	RD5.1EB(2)-T4	565
QT0100(.25C1740)	2009	R0098	1114	R1218	1067	R8224	1617	RA102CA	1104	RC4558P	038	RD5.1EB(3)	565
QT0100(.25C1740Q)		RO2A	1114	R1329	1104	R8225	1617	RA102DA	1104	RC4559DE	038	RD5.1EB1	565
	2009	RO2B	1114	R-1348	563	R8243	1617	RA102EA	1104	RC4559NB	038	RD5.1E-B2	565
QT0100(.25C1740R)		RO2C	1114	R1667	1123	R8244	1617	RA102FA	1104	RCA1A01	2030	RD5.1EB-2	565
	2009	RO2K	1114	R1711	1000	R8257	1123	RA102GA	1104	RCA1A06	2030	RD5.1EB2	565
	2009	RO2Z	1143	R1712	1000	R8259	1617	RA102HA	1104	RCA1A07	2030	RD5.1E-B3	565
QT-A0719AXN	2023	R06-1001	2016	R1713	1000	R8260	1617	RA102KA	1104	RCA1A17	2030	RD5.1EB3	565
QT-A0719XAN	2023	R06-1002	2016	R1715	1000	R8261	1617	RA102MA	1104	RCA1A18	2030	RD5.1E-C	565
QT-A0719XCXN	2023	R06-1003	2016	R1723	1000	R8305	1617	RA102PA	1114	RCA1B06	2041	RD-5.1EC	565
QT-A0719XHN	2023	R06-1004	2016	R1889	1123	R8312	1617	RA102RA	1114	RCA1C03	2020	RD5.1EC	565
QT-A0733XAA	2023	R06-1005	2016	R2159	1104	R8314	1122	RA102TA	1114	RCA1C05	2020	RD5.1E-N1	565
QT-A0733XDN	2023	R06-1006	2016	R2164	1123	R8364	563	RA102VA	1114	RCA1C07	2020	RD5.1EN1	565
QT-A0733XON	2023	R080	1114	R2252	1104	R8470	1104	RA132AA	1114	RCA1C09	2020	RD5.1E-N2	565
QTA562	2023	R0102	1104	R-2436	2055	R8473	1104	RA132BA	1114	RCA1C10	2020	RD5.1EN2	565
QT-A0719XAN	2023	R0804	1173	R2442	1104	R8475	1123	RA132CA	1114	RCA1C12	2020	RD5.1E-N3	565
QT-C0372XAT	2009	R0851	1171	R2473	2016	R8477	1101	RA132DA	1114	RCA1C14	2020	RD5.1EN3	565
QT-C0460CBB	2009	R0852	1171	R2476	2016	R8528	1617	RA132EA	1114	RCA29	2020	RD5.1F	565
QT-C0710XAE	2009	R0855	1173	R2477	2016	R8529	2016	RA132FA	1114	RCA29A	2020	RD5.1FB	565
QT-C0710XBE	2009	R07105	563	R2982	2041	R8530	1617	RA132GA	1114	RCA29ASDH	2020	RD5.1F-B3	565
QT-C0710XEE	2009	R-1	1104	R3283	1617	R8543	1617	RA132HA	1114	RCA29B	2020	RD5.1JB	565
QT-C0735XBT	2009	R1	1104	R3285	1617	R8551	1104	RA132KA	1114	RCA29B5SDH	2020	RD5.1JB1	565
QT-C0828XAN	2009	R-1A	1104	R3293(GE)	1617	R8552	1617	RA132MA	1114	RCA29C	2020	RD5.1JB2	565
QT-C0828XDN	2009	R1A	1104	R3508	2030	R8553	1617	RA132PA	1114	RCA29CSDH	2020	RD5.6EC	561
QT-C0829XAN	2009	R-1B	1143	R3608	2030	R8554	1617	RA132RA	1114	RCA29SDH	2020	RD6AN	561
QT-C0829XBN	2009	R1B	1104	R3608-1	2030	R8555	1617	RA132TA	1114	RCA30	2027	RD6R2B2	561
QT-C0829XON	2009	R1C	1102	R3608-2	2030	R8556	1617	RA132VA	1114	RCA30A	2027	RD6R2EB	561
QT-C0839XDA	2009	R-1S188	1123	R3619-3	1000	R8557	1617	RA162AA	1114	RCA31	2020	RD6R2EB1	561
QT-C0900XBA	2016	R2D	563	R4057	1617	R8560	1101	RA162BA	1114	RCA31A	2020	RD6.2EM	561
QT-C0900XBD	2016	R2E	564	R4369	2041	R8620	1617	RA162CA	1114	RCA31ASDH	2020	RD6.2E	561
QT-C0900XCA	2016	R2H	1102	R5048	2030	R8645	1114	RA162DA	1114	RCA31B	2020	RD6.2E(B1-B3)	561
QT-C0945ACA	2009	R-25C535	2016	R5096	1123	R8646	1617	RA162EA	1114	RCA31B5SDH	2020	RD6.2E(B2)	561
QT-C0945AGA	2009	R-25C537	2009	R5522	1123	R8647	1617	RA162FA	1114	RCA31C	2020	RD6.2E(B3)	561
QT-C1318XDN	2009	R-25C545	2016	R5862	1123	R8648	1617	RA162GA	1114	RCA31CSDH	2020	RD6.2E(FA-1)	561
QT-C10475AN	2016	R-25C668	2016	R5970	1104	R8649	2030	RA162HA	1114	RCA31SDH	2020	RD6.2E-B	561
QT-C1047XAN	2016	R-25C772	2058	R5971	1104	R8658	1617	RA162KA	1114	RCA41A	2020	RD-6.2EB	561
QT-C1047XBN	2016	R-25C858	2016	R6048	1104	R8887	1123	RA162MA	1114	RCA41B	2020	RD6.2EB	561
QT-C1318XAN	2009	R3	1101	R6109	1123	R8889	1617	RA162PA	1114	RCA41C	2020	RD6.2EB(1)	561
QT-C1318XDN	2009	R3/2H	1104	R6110	1104	R8900	1617	RA162RA	1114	RCA120	2068	RD6.2EB(3)	561
QT-C1359XAN	2009	R-4A	1144	R6422	1104	R8914	1617	RA162TA	1114	RCA121	2068	RD6.2EB(3)-T4	561
QT-C1687XAN	2058	R4A	1104	R-7026	1122	R8915	2030	RA162VA	1114	RCA520	2020	RD6.2E-B1	561
QT-CBC546AA	2016	R5	1114	R-7027	1122	R8916	1617	RA751AA	1104	RCA521	2020	RD6.2EB1	561
QT-CO372XAT	2016	R-5B	1143	R7028	1123	R8963	1617	RA751BA	1104	RCA3054	2020	RD6.2E-B2	561
QT-CO710XBE	2009	R5B	1114	R-7029	1123	R8964	1617	RA751CA	1104	RCA3055	2020	RD6.2EB2	561
QT-C0828XDN	2016	R-5C	1143	R7029	1123	R8965	1617	RA751DA	1104	RCA40245	2016	RD6.2EB2-0.4W	561
QT-CO900XCA	2016	R5C	1114	R-7051	1123	R8966	1617	RA751EA	1104	RCA40246	2016	RD6.2EB-2A11R	561
QT-CO945ACA	2016	R6	1114	R-7093	561	R8967	2023	RA751FA	1104	RCC7022	1101	RD6.2EB-3	561
QT-CQ460CBB	2009	R6/2H	1104	R-7096	1102	R8968	1617	RA751GA	1104	RC5242	2041	RD6.2E-B3	561
QT-D0313XAC	2020	R8	1114	R-7103	563	R8969	2023	RA751HA	1104	RD-3	1104	RD6.2EB3	561
QT-D0325XAC	2020	R8/2H	1114	R7162	1104	R8970	1123	RA751KA	1104	RD3A-1B4	1104	RD6.2EB23	561
QT-D0525XDT	2020	R9-56	025	R7163	1617	R9804	1617	RA751MA	1104	RD4R7	565	RD6.2EC	561
QTD0704XAE	2020	R9A	1104	R7165	1617	R9005	1617	RA751PA	1114	RD4R7EB	565	RD6.2EFA-1	561
QT-K0023AA5	2035	R10D1	1104	R7248	1104	R9006	1617	RA751QA	1114	RD4R7EB2	565	RD6.2EFA1	561
QT-K0033XAE	2035	R10DC	1104	R7249	1617	R9025	1617	RA751RA	1114	RD4.3EC	565	RD6.2EL2	561
QT-K0033XBE	2035	R60-1007	1123	R7271	1104	R9071	1617	RA751VA	1114	RD4.7BE	565	RD6.2E-N1	561
QTVCM-81	705	R66-8504	1104	R7343	1617	R9384	1617	RB-150	1173	RD4.7E	565	RD6.2E-N2	561
QTVCM-500	1801	R118	2016	R7359	1617	R9385	1173	RB150	1173	RD-4.7EB	565	RD6.2EN2	561
QTVCM-505	1808	R122C	1104	R7360	1617	R9470	1104	RB-151	1173	RD4.7EB	565	RD6.2F	561
QVD1KF114	1123	R123	2030	R7361	1617	R9483	1617	RB151	1173	RD4.7EB1	565	RD6.2FB	561
QVM8008	1123	R142	1122	R7582	1617	R9590	1123	RB-152	1173	RD4.7EB2	565	RD6.2FB1	561
QZ5.1T5	565	R154B	1171	R7613	2030	R9597	1104	RB152	1173	RD4.7EB3	565	RD6.2FB2	561
QZ5.1T10	565	R204B	1171	R7615	1114	R9600	1173	RB153	1173	RD4.7EB3T	565	RD6.2FB-3	561
QZ6.2T5	561	R205	1114	R7682	1104	R10554	1101	RB154	1173	RD4.7EC	565	RD6.2JB	561
QZ6.2T10	561	R210	1114	R7743	1123	R106379	1104	RB602	1181	RD4.7EN-1	565	RD6.2JB2	561
QZ12T5	563	R250	1114	R7887	1617	R112524	1123	RC080	1114	RD4.7EN1	565	RD6.2L	561
QZ12T10	563	R250F	1114	R7892	1123	R113321	1104	RC185-6	1114	RD4.7F	565	RD6.2M	561
QZ15T5	564	R340	1617	R7893	1123	R113392	1104	RC555	1173	RD4.7FB	565	RD6.2MB	561
QZ15T10	564	R350	1114	R7894	563	R1500715	1114	RC555DE	1173	RD4.7J-B1	565	RD6.3EB1	561
QZ15T5	564	R350F	1114	R7953	1617	R2400730	111						

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RD9AN	562	RD15EB3-0.4W	564	RE90	1114	REN107	2016	RF32426-7	1122	RH15	1104	RH-EX0038CEZZ	
RD9B	562	RD15EB3Z	564	RE-91	1101	REN108	2016	RF32645	1104	RH15V	1104	(,EX0038CE)	563
RD9R1E	562	RD15EC	564	RE91	1101	REN109	1123	RF33550-1	1123	RH-15-Z	1104	RH-EX0047CEZZ	563
RD9R1EW	562	RD15E-N1	564	RE92	1114	REN110	1123	RF33976	1104	RH-1V	1104	RH-EX0047CEZZ	
RD-9.1	562	RD15E-N3	564	RE-94	1122	REN114	1101	RF34383	1104	RH-1ZV	1104	(,H-EX0047CE)	563
RD-9.1E	562	RD15EN3	564	RE94	1122	REN115	1101	RF34661	1122	RH120	1617	RH-EX0048CEZZ	561
RD9.1E	562	RD15F	564	RE-104	565	REN116	1104	RF34720	1104	RH-DX0008CEZZ	1104	RH-EX0048CEZZ	
RD9.1EB	562	RD15F1	564	RE104	565	REN120	1101	RF35123	1123	RH-DX0014-CEZZ	1104	(,EX0048CE)	561
RD-9.1EB(1)	562	RD15FA	564	RE-105	565	REN123	1617	RF60034	1123	RH-DX0025CEZZ	1104	RH-EX0057GEZZ	561
RD9.1EB1	562	RD15FB	564	RE105	565	REN123A	2009	RFA70597	1104	RH-DX0026AGZZ	1104	RH-EX0061CEZZ	563
RD9.1EB2	562	RD15FM	564	RE-108	561	REN125	1114	RFA70600	1104	RH-DX0033TAZZ	1122	RH-EX0131CEZZ	565
RD9.1E-B3	562	RD15JB3	564	RE108	564	REN128	2030	RFC61197	1104	RH-DX0038CEZZ	1103	RH-EX0137CEZZ	565
RD9.1EB3	562	RD15M	564	RE-109	561	REN130	2041	RFJ6134	1104	RH-DX0038CEZZ	1104	RH-EX0137TA	565
RD9.1EBT	562	RD15MB	564	RE109	561	REN132	2035	RFJ30704	1104	(,DX0038CE)	1103	RH-EX0139CEZZ	565
RD9.1EC	562	RD16AM	564	RE113	564	REN133	2035	RFJ31218	1104	RH-DX0042CEZZ	1104	RH-EX0192CEZZ	561
RD9.1ED	562	RD-16H	564	RE-114	562	REN135	565	RFJ31362	1104	RH-DX0043TAZZ	1104	RH-EX0200CEZZ	563
RD9.1EK	562	RD16H	564	RE114	564	REN137	561	RFJ31363	1104	RH-DX0046CEZZ	1122	RH-EX0217CEZZ	564
RD9.1EL3	562	RD51EB	565	RE-117	563	REN139	562	RFJ33292	1104	RH-DX0048CEZZ	1122	RH-IX0012PAZZ	1802
RD9.1E-N3	562	RD-91	562	RE117	563	REN141	563	RFJ60172	1123	RH-DX0054CEZZ	1122	RH-IX0014PAZZ	1770
RD9.1EN3	562	RD-91E	562	RE-118	563	REN142	563	RFJ60173	1104	RH-DX0055TAZZ	1104	RH-IX0069CEZZ	2401
RD9.1EW	562	RD91E	562	RE118	563	REN145	564	RFJ60174	1104	RH-DX0056CEZZ	1104	RH-IX0072CEZZ	2411
RD9.1F	562	RD151	1173	RE-121	564	REN152	2020	RFJ60286	1104	RH-DX0059TAZZ	1104	RL010658	1122
RD9.1FA	562	RD152	1173	RF121	564	REN153	2027	RFJ60366	1104	RH-DX0064CEZZ	1104	RL005	1114
RD-9.1FB	562	RD153	1173	RE-168	1067	REN156	1114	RFJ60614	1123	RH-DX0065CZZ	1104	RL010	1114
RD9.1FB	562	RD154	1173	RE168	1067	REN159	2023	RFJ60869	1104	RH-DX0066TAZZ	1104	RL020	1114
RD9.1F-B3	562	RD250	1104	RE-171	1067	REN161	2016	RFJ70147	1144	RH-DX0067TAZZ	1104	RL040	1114
RD9.1FB3	562	RD515	1122	RE171	1067	REN164	2055	RFJ70432	1104	RH-DX0068TAZZ	1104	RL060	1114
RD9.1FC	562	RD1212EB-T4	563	RE174	1020	REN165	2055	RFJ70487	1104	RH-DX0069TAZZ	1103	RL31	1123
RD9.1JB	562	RD3472	1104	RE179	1000	REN166	1171	RFJ70643	1101	RH-DX0072CEZZ	1104	RL32	1123
RD9.1JB2	562	RD9037	1104	RE182	1000	REN177	1122	RFJ70703	1104	RH-DX0073CEZZ	1104	RL32G	1123
RD9.1M	562	RD26235-1	1104	RE185	1000	REN186	2017	RFJ70931	1104	RH-DX0079TAZZ	1104	RL34	1123
RD9.1MB	562	RD29799P	1104	RE-192	2016	REN196	2020	RFJ70970	1104	RH-DX0081CEZZ	1104	RL34G	1123
RD10EN1T	562	RD31903P	1104	RE192	2016	REN199	2016	RFJ70974	1104	RH-DX0081TAZZ	1104	RL41	1123
RD11C	563	RD12E-B	563	RE-193	2023	REN219	2043	RFJ70977	1104	RH-DX0083CEZZ	1104	RL41G	1123
RD11EE	1104	RE2	1104	RE193	2023	REN223	2041	RFJ71122	1104	RH-DX0085TAZZ	1104	RL42	1123
RD12	563	RE3	1104	RE205	2020	REN229	2058	RFJ71123	1114	RH-DX0086TAZZ	1104	RL43	1123
RD12B	563	RE-9	2016	RE218	1067	REN233	2009	RFJ71480	562	RHD0086TAZZ	1104	RL43G	1123
RD12E	563	RE9	2016	RE222	2020	REN234	2023	RFJ72360	1104	RH-DX0086TAZZ	1104	RL44G	1123
RD12EA	563	RE-10	2016	RE233	2055	REN238	2055	RFJ72787	1104	(,DX0086CE)	1104	RL52	1123
RD12E-B	563	RE10	2016	RE235	2023	REN280	2041	RFL30596	1104	RH-DX0086TAZZ(,RH15)	1104	RL101F	1104
RD-12EB	563	RE-12	1617	RE246	1067	REN289	2009	RFM33160	1104		1104	RL102F	1104
RD12EB	563	RE12	1617	RE247	1067	REN290	2023	RFP33118	1104	RH-DX0091CEZZ	1114	RL103F	1104
RD12EB(1)	563	RE-13	1617	RE248	1067	REN291	2020	RFV60500	1104	RH-DX0092CEZZ	1114	RL104F	1104
RD-12EB(3)	563	RE13	1617	RE285	1171	REN1155	705	RG010G	1104	RH-DX0101-CEZZ	1104	RL105F	1104
RD12EB(3)	563	RE-17	2020	RE258	2041	REN5069	565	RG1	1104	RH-DX0101CEZZ	1104	RL-152	1143
RD12EB(3)-T4	563	RE17	2030	RE260	2058	REN5070	561	RG1A	1104	RHD0101CEZZ	1104	RL209-1	026
RD12EB(AU)	563	RE-19	2041	RE261	2009	REN5073	562	RG1B	1104	RH-DX0105TAZZ	1104	RL232G	1123
RD12E-B1	563	RE19	2041	RE263	2009	REN5400	1067	RG1D	1104	RH-DX0105TAZZ	1104	RL246	1123
RD12EB-1	563	RE-21	2041	RE357-1C	705	REN5401	1067	RG1G	1104	(,DX0105TA)	1104	RL247	1123
RD12EB1	563	RE21	2020	RE382-1C	1801	REN5402	1067	RG1J	1104	RH-DX0105TAZZ(,TVR1J	1104	RL247G	1123
RD12E-B1Z	563	RE-26	2023	RE1001	2016	REN5403	1067	RG100B	1104	(TP)	1104	RL251	1114
RD12EB1Z	563	RE26	2023	RE1002	2016	REN5404	1067	RG100D	1104	RH-DX0106CEZZ	1104	RL252	1114
RD12E-B2	563	RE-28	2016	RE2001	2016	REN5454	1067	RG100G	1104	RH-DX0110CEZZ	1103	RL253	1114
RD12EB-2	563	RE28	2016	RE2002	2016	REN5455	1067	RG100J	1104	RH-DX0110CEZZ	1104	RL254	1114
RD12EB2	563	RE31	2055	RE3001	2016	REN5457	102C	RG606	1141	(,DX0110CE)	1102	RL255	1114
RD12E-B2Z	563	RE-32	2055	RE3002	2016	REN5640	100G	RG606T	1141	RH-DX0114CEZZ	1104	RL256	1114
RD12E-B3	563	RE32	2055	RE4001	2016	REN5641	100G	RG1004	1104	RH-DX0115CEZZ	1104	RL257	1114
RD12EB3	563	RE-42	2017	RF4002	2016	REN5642	100G	RG1127	1104	RH-DX0115TAZZ	1114	RLF1G	1104
RD12EBD	563	RE42	2017	RE4010	2016	REN7400	1801	RG01-08	1104	RH-DX0117TAZZ	1104	RM-1	1104
RD12EBH	563	RE45	2035	RE5001	2016	REN7023	1122	RG10-DG1	1104	RH-DX0123CEZZ	1104	RM1	1104
RD12EBH	563	RE46	2035	RE5002	2016	RET20	1104	RG10A	1104	RHD0123CEZZ	1104	RM1A	1104
RD12EB-T4	563	RE-47	1104	RECT-SI-164	1104	RF-1	1104	RG1-10B	1104	RH-DX0123CEZZ(,TVR1D	1104	RM-1AV	1104
RD12EC	563	RE47	1123	RECT-SI-154(AU)	1104	RF1	1104	RG10B	1104	(TP)	1104	RM-1B	1114
RD12E-T2	563	RE-49	1104	RECT-SI-1061	1104	RF-1A	1104	RG10D	1104	RH-DX0126CEZZ	1104	RM1B	1114
RD12F	563	RE49	1104	RECT-SI-1002	1104	RF1A	1104	RG10D	1104	RH-DX0126CEZZ(,TVR1G	1104	RM1C	1114
RD12F(B1)	563	RE-51	1114	RECT-SI-1002(AU)	1104	RF1B	1104	RG10DG1	1102	(TP)	1104	RM15	1104
RD12FA	563	RE51	1114	RECT-SI-1005	1104	RF-1Z	1104	RG1-10G	1104	RH-DX0130CEZZ	1104	RM-1V	1104
RD12FB	563	RE-52	1104	RECT-SI-1020	1104	RF1Z	1104	RG10G	1104	RH-DX0131CEZZ	1104	RM-1Z	1104
RD12FB1	563	RE52	1122	RECT-SI-1021	1104	RF101	1101	RG1-10J	1104	RH-DX0136TAZZ	1114	RM1Z	1104
RD12FB2	563	RE-61	2043	RECT-SI-1026(AU)	1104	RF200	2016	RG10J	1104	RH-DX0142CEZZ	1122	RM1ZM	1104
RD12FB3	563	RE61	2043	RECT-SI-1030	1104	RF300	1102	RG10J,G23	1104	RH-DX0154CEZZ	1102	RM1ZMV	1104
RD12FBT	563	RE62	2023	RECT-SI-1039	1103	RF1811	1125	RG10J,G23	1104	RH-DX0155CEZZ	1102	RM-1ZV	1104
RD12JB	563	RE63	2023	RECT-SI-1044	1104	RF3160	1104	RG10J,G23	1104	RH-DX0181CEZZ	1104	RM1ZV	1104
RD12JB2	563	RE64	2016	RECT-SI-1044(AU)	1104	RF3472	1104	RG10J,G23	1104	RH-DX0202CEZZ	1104	RM2	1104
RD12JM	563	RE66	2009	RECT-UG-1003	1171	RF5794	1101	RG10J,G23	1104	RH-DX0236CEZZ	1122	RM2-C-Z	1114
RD12MB	563	RE-67	2016	RECT-UG-1004	1173	RF-6235-1	1104	RG1-100	1104	RH-DX0237CEZZ	1122	RM-2A	1114
RD13AL	563	RE67	2016	REJ70643	1104	RF26231-1	1104	RG100A	1104	RH-DX1005AFZZ	1104	RM-2AV	1114
RD-13AN	563	RE70	2030	REJ70931	1104	RF26234-1	1104	RG100B	1104	RH-DY00035EZZ	1104	RM2B	1114
RD13BL	563	RE72	2023	REJ71253	1122	RF26235-1	1104	RG100D	1104	RH-EX0027TAZZ	565	RM-2C	1114
RD13CL	563	RE-82	2043	REN61	2043	RF26235-2	1104	RH-1	1104	RH-EX0011GEZZ	564	RM2C	1114
RD13K	563	RE82	2043	REN62	2023	RF26235-5	1104	RH1	1104	RH-EX0015CEZZ	563	RM2C5	1114
RD15E	584	RE86	1123	REN63	2023	RF29799P	1104	RH-1A	1104	RH-EX0017CEZZ	563	RM2C-Z	1114
RD15EA	564	RE-88	1101	REN64	2016	RF31903P	1104	RH1A	1104	RH-EX0019GEZZ	564	RM-25C	1114
RD15EB	564	RE88	1101	REN67	2016	RF32101-8	1104	RH-1BV	1104	RH-EX0020GEZZ	565	RM-2V	1114
RD15EB2	564	RE-89	1101	REN70	2023	RF32101-9	1104	RH-1M	1104	RH-EX0024CEZZ	561	RM2Z	1104
RD15E-B3	564	RE89	1101	REN70	1114	RF32101-9	1104	RH1M	1104	RH-EX0024TAZZ	565	RM4	1114
RD15FB3	564	RE-90	1114	REN74	1122	RF32412-3	1104	RH-15	1104	RH-EX0038CEZZ	563	RM4A	1114

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RM4B	1114	RS-2009	2009	RS7140	2016	RS7518	2009	RT126	1617	RT1840	1104	RT5907	2030
RM4C	1114	RS2009	1617	RS7141	2016	RS7519	2009	RT-126A	2023	RT2016	1617	RT5908	1123
RM4Y	1114	RS-2010	2009	RS7142	2016	RS7520	2016	RT-131	2041	RT2061(G.E.)	1122	RT5909	1122
RM4Z	1114	RS2010	2009	RS7143	2016	RS7521	2009	RT131	2041	RT2309	2016	RT5911	1104
RM10	1104	RS-2011	2016	RS7144	2016	RS7522	2016	RT-133	2020	RT2332	1617	RT5912	1123
RM10A	1114	RS-2013	2009	RS7145	2016	RS7523	2016	RT-134	2016	RT2334	1123	RT5939	1123
RM10B	1114	RS2013	2009	RS7160	1617	RS7524	2016	RT-139	2055	RT2451	1123	RT6119	1123
RM10M	1114	RS-2014	2030	RS7161	2016	RS7525	2009	RT-140	2055	RT2452	1123	RT6157	2016
RM10MV	1114	RS-2015	2016	RS7162	2016	RS7526	2009	RT-141	2030	RT2669	1104	RT6158	2016
RM10Z	1114	RS-2016	2009	RS7163	2016	RS7527	2009	RT141	2030	RT2694	1123	RT6159	2016
RM11	1114	RS2016	2009	RS7164	2016	RS7528	2009	RT-150	2020	RT2914	2009	RT6160	2016
RM11A	1114	RS2017	2020	RS7165	2016	RS7529	2009	RT150	2020	RT2915	2016	RT6179	1123
RM11B	1114	RS2018	2020	RS7166	2016	RS7530	2009	RT-151	2027	RT3063	1617	RT6180	1123
RM11C	1114	RS2019	2020	RS7167	2016	RS7532	2016	RT151	2027	RT3064	1617	RT6181	1123
RM15	1104	RS-2021	2023	RS7168	2016	RS7533	2016	RT-152	2017	RT3065	2023	RT6182	1123
RM-103	1114	RS-2022	2023	RS7169	2016	RS7542	2009	RT152	2017	RT3069	2016	RT6183	1123
RM3005	2020	RS2022	2023	RS7170	2016	RS7543	2009	RT-154	2041	RT3070	2016	RT6184	1123
RM4558	038	RS-2023	2023	RS7173	2058	RS7544	2009	RT154	2030	RT3071	2023	RT6189	1123
RMIV	1104	RS-2024	2023	RS7174	2016	RS7555	2009	RT-155	2027	RT3072	1123	RT6201	2058
RMP5020	1104	RS-2025	2027	RS7175	2016	RS7606	1617	RT155	2027	RT3095	2016	RT6202	2058
RMPJT0029CEZZ	561 N5	RS-2028	2035	RS7176	2016	RS7607	1617	RT-158	2020	RT3099	1123	RT6203	2016
RMVTC00921-3	1101	RS-2030	1617	RS7177	2016	RS7609	1617	RT-164	2020	RT3225	2016	RT-6204	2009
RO2	1114	RS-2031	2009	RS-7201	2016	RS7610	1617	RT-166	2020	RT3226	2016	RT6204	2009
RO2A	1114	RS-2032	2023	RS7201	2016	RS7611	1617	RT-172	1104	RT3227	2016	RT6322	1104
RO2Z	1114	RS-2033	1617	RS-7202	2016	RS7612	1617	RT-175	2035	RT3228	1617	RT6332	1104
RO102	1104	RS-2034	2023	RS7202	2016	RS7613	1617	RT175	2035	RT3232	2016	RT6600	2016
RP4Z	1114	RS2039	2041	RS7209	2016	RS7614	1617	RT-176	2035	RT3233	1123	RT6600MHF25	2009
RQ-4095	1104	RS2040	2043	RS7210	2016	RS7620	1617	RT176	2035	RT3336	1123	RT6601	2058
RQ-4445	2009	RS2041	2041	RS7211	2016	RS7621	1617	RT-177	2035	RT3443	1104	RT6602	2058
RR7504	1617	RS2043	2043	RS-7212	2016	RS7622	1617	RT-187	2009	RT3469	1123	RT6605	1114
RR8068	1617	RS2801	1123	RS7212	2016	RS7623	1617	RT-188	2030	RT3558	1104	RT6619	1123
RR8070	2016	RS2914	1617	RS7214	2016	RS7624	2009	RT188	2030	RT3565	1617	RT6728	1123
RR8116	2016	RS3570	1104	RS7215	2016	RS7625	2009	RT-194	2041	RT3567	2009	RT6729	1104
RR8118	2016	RS3727	1104	RS7216	2016	RS7626	2009	RT-197	2020	RT3585	1104	RT6731	1123
RR8119	2016	RS4001	2401	RS7217	2016	RS7627	2009	RT-200	1123	RT3671	564	RT6732	2009
RR8914	1617	RS4011	2411	RS7218	2016	RS7628	2009	RT-203	1114	RT3858	1104	RT6733	2009
RR8989	2016	RS4013	2413	RS7219	2016	RS7634	2009	RT-210	1114	RT3981	1104	RT6735	2041
RR8999	2016	RS4017	2417	RS7220	2016	RS7635	2009	RT210	1114	RT4050	1104	RT6737	2009
RRB24-06	1104	RS4049	2449	RS7221	2016	RS7636	2009	RT-212	1104	RT4069	1104	RT6787	2016
RS-05	1141	RS5851	1617	RS7222	2016	RS7637	2009	RT-213	1104	RT4232	1104	RT6791	1104
RS05	1141	RS5853	1617	RS7223	1617	RS7638	2009	RT213	1104	RT4293	1123	RT6921	2009
RS1	1104	RS5856	2009	RS7224	1617	RS7639	2009	RT-214	1104	RT4644	1123	RT6921MHF25	2009
RS1FM-12	1104	RS5857	2009	RS7225	2016	RS7640	2009	RT214	1104	RT4760	2016	RT-6922	565
RS1Z	1104	RS6344	1104	RS7226	1617	RS7641	2009	RT-215	1104	RT4761	2009	RT6922	565
RS10	1104	RS6461	1104	RS7227	2016	RS7642	2009	RT215	1104	RT-4764	1114	RT6989	2009
RS101	1171	RS6471	1104	RS7228	2016	RS7643	2009	RT-218	1122	RT4764	1104	RT6991	2016
RS102	1171	RS6523	2016	RS7229	2016	RS7665	2023	RT218	1122	RT4767	1104	RT7320	2016
RS104	1173	RS6705	1104	RS7230	2016	RS7678	2030	RT-220	1101	RT4880	1123	RT7321	2016
RS-107	1617	RS7101	2016	RS7231	2016	RS7814	2009	RT-222	1101	RT5061	2016	RT7322	2009
RS-108	1617	RS7102	2016	RS7232	1617	RS7916	2035	RT-223	1101	RT5070	1104	RT7323	2016
RS-109	2016	RS7103	1617	RS7233	2058	RS8101	2030	RT-235	565	RT5151	2030	RT7324	2016
RS-110	2023	RS7104	2016	RS7234	2009	RS8103	2030	RT235	565	RT5152	2030	RT7325	2009
RS128	1617	RS7105	1617	RS7235	2009	RS8105	2030	RT-237	561	RT5200	2016	RT7326	2009
RS132	2030	RS7106	2016	RS7236	1617	RS8107	2030	RT-240	562	RT5201	2016	RT7327	2009
RS136	1617	RS7107	2016	RS7237	2016	RS8109	2030	RT-243	563	RT5202	2009	RT7330	1123
RS201	1171	RS-7108	2016	RS7238	2009	RS8111	2030	RT-245	564	RT5203	2030	RT7402	1171
RS202	1171	RS7108	1617	RS7241	2009	RS8113	1123	RT-263	1123	RT5204	2009	RT7511	1617
RS204	1173	RS7109	2016	RS7242	2009	RS8430	1104	RT-267	1617	RT5205	2016	RT7514	2009
RS220AF	1104	RS7110	2016	RS7333	2016	RS8442	2009	RT-268	1617	RT5206	2009	RT7515	1617
RS230AF	1104	RS7111	1617	RS7334	2016	RS8503	2009	RT-269	2023	RT5207	2023	RT7517	1617
RS-253C	1122	RS7112	2016	RS7400	1801	RS9510	2016	RT-270	2023	RT5208	2016	RT7518	1617
RS-253S	1122	RS7113	2016	RS7404	1802	RS9511	2016	RT-302	2009	RT5212	1123	RT7528	1617
RS-2675	1122	RS7114	2058	RS7405	1617	RS9512	2016	RT-303	2023	RT5213	1123	RT7538	1123
RS-272US	1122	RS7115	2016	RS7406	1617	RSLN0004CEZZ	1101	RT304	2009	RT5214	1123	RT7539	561
RS-279US	2016	RS7116	2016	RS7407	1617	RSWY/16L7Z	1123	RT-308	2016	RT5217	1122	RT7557	2009
RS-2805	1122	RS7117	2016	RS7408	1617	RT-100	1617	RT-309	2009	RT5379	1123	RT7559	2016
RS555	1723	RS7118	2016	RS7408(IC)	1822	RT100	1617	RT-312	1617	RT5385	1104	RT7634	1104
RS-805US	2009	RS7119	2016	RS7409	1617	RT-101	1617	RT-313	2016	RT5401	2030	RT7636	1123
RS1049	1617	RS7120	2016	RS7410	1617	RT-102	2009	RT476	2009	RT5402	2030	RT7638	1617
RS1059	1617	RS7121	1617	RS7411	1617	RT-103	2023	RT482	2030	RT5403	2030	RT7689	1123
R-S1264	1104	RS7122	2016	RS7412	1617	RT103	1617	RT483	2030	RT5404	2030	RT7703	2016
RS1264	1104	RS7123	2016	RS7413	1617	RT-104	2016	RT484	2030	RT5435	2016	RT7704	2016
RS1290	562	RS-7124	2009	RS7415	1617	RT104	2009	RT697M	1617	RT5464	2016	RT7845	1617
RS1296	1104	RS7124	2016	RS7421	1617	RT-105	2016	RT699M	2030	RT5465	2016	RT7848	1141
RS-1347	1104	RS7125	2016	RS7447	1805	RT105	1617	RT-929-H	1617	RT5470	1123	RT7849	1104
RS1347	1104	RS7126	2016	RS7490	1808	RT106	2023	RT929H	1617	RT5472	1104	RT7850	1104
RS1348	563	RS-7127	2009	RS7504	1617	RT-107	2016	RT930H	2016	RT5551	2009	RT7851	1123
RS1428	1122	RS7127	2009	RS7510	1617	RT107	2016	RT107	2016	RT5554	1123	RT7943	2009
RS1458	038	RS7128	2016	RS7511	2016	RT-108	2016	RT1106	1123	RT5738	1123	RT7945	2030
R-S-1720	1104	RS-7129	2009	RS7512	2016	RT108	2016	RT1108	1123	RT5793	561	RT7946	1122
RS1720	1104	RS7129	2009	RS7513	2009	RT-108A	1104	RT1184	1123	RT5900	2009	RT8047	2016
RS1726	2016	RS7132	1617	RS7513-15	2009	RT-112	2016	RT1395	1617	RT5901	1617	RT8193	1617
RS1749	1104	RS7133	1617	RS7514	2009	RT112	2016	RT1595	1104	RT5902	2016	RT8195	1617
R-S1805	1144	RS7135	2016	RS7515	2009	RT-113	2016	RT1667	1123	RT5903	2016	RT8197	2009
RS1805	1104	RS7136	1617	RS7516	2009	RT113	2009	RT1669	1122	RT5904	2016	RT8198	2009
RS1811	1123	RS7138	2016	RS7517	2009	RT-114	1617	RT-1689	1123	RT5905	2009	RT8201	2009
RS1832	1104	RS7139	2016	RS7517-19	2009	RT114	1617	RT1689	1122	RT5906	2030	RT8231	1104

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RT8330	2009	RV1479	1123	RZ9.1	562	S1CN1	1104	S2K40	1102	S-12A	1143	S105	1104
RT8331	2035	RV2070	2016	RZ12	563	S1D	1114	S2M1	1143	S13	1104	S105A	1141
RT8332	1617	RV2071	1122	RZ12A	563	S1D2A-1	1122	S2M2	1141	S13A	1144	S106	1104
RT8333	2016	RV2072	1104	RZ15	564	S1D2A-3	1122	S2PB	1171	S14	1104	S106-05	1067
RT8335	2020	RV2213	562	RZ15A	564	S1D508851-A	1122	S2PB10	1171	S14A	1144	S106-1	1067
RT8336	2027	RV2248	2016	RZZ4.7	565	S1D51C052-19	1104	S2PB40	1173	S14K130	570	S106-2	1067
RT8337	2016	RV2249	2009	RZZ5.1	565	S1D51C169-1	1104	S2Q20	1104	S-15	1104	S106-4	1020
RT8338	2027	RV2250	1104	RZZ6.2	561	S1D153	2020	S2Q40	1104	S15	1104	S106A	1067
RT8339	562	RV2260	2023	RZZ9.1	562	S1G10	1104	S2Q60	1104	S-15-10	1104	S106A1	1067
RT8340	1104	RV-2289	1104	RZZ12	563	S1G20	1104	S2Q80	1114	S15A	1104	S106A2	1067
RT8527	2016	RV2289	1104	S	562	S1G40	1104	S2Q100	1114	S15H	1122	S106B1	1067
RT8665	1114	RV2351	2023	S0013	2023	S1G40Z	1104	S2RB40	1173	S16	1104	S106B2	1067
RT8666	2016	RV2353	2023	S0026	2023	S1G60Z	1104	S2TB	1173	S16A	1104	S106C	1020
RT-8667	2035	RV2354	2009	S001683	2009	S1G80Z	1114	S2TB10	1171	S16B	1104	S106C1	1020
RT8667	2035	RV2355	2023	S0-4295-10	2041	S1GR2	1143	S2TB40	1173	S17	1104	S106C2	1020
RT8668	2058	RV4558DE	038	S02	1122	S1K20	1104	S2V	1114	S17A	1104	S106D	1020
RT8669	2016	RV4558NB	038	S04	1122	S1K20H	1104	S2V10	1114	S18	1104	S106D1	1020
RT8670	2023	RV4559DE	038	S-05	1104	S1K40	1104	S2V20	1114	S18A	1104	S106D2	1020
RT8671	1123	RV4559NB	038	S05	1104	S1L200	1104	S2V40	1114	S18B	1104	S106F	1067
RT8840	1104	RVDO.8C22/1A	1104	S-05/01	1114	S1M	1114	S2V60	1114	S19	1104	S106F1	1067
RT8841	1104	RVD1E1LF	1104	S-05-005	1104	S1M1	1141	S2VC	1104	S19A	1104	S106F2	1067
RT8863	2016	RVD1K110	1123	S-05-01	1104	S1M2	1141	S2VC10	1114	S20	1114	S106Q	1067
RT8895	2023	RVD1N34A	1123	S-05-02	1104	S1QB10	1171	S2VC10R	1114	S20K130	568	S106Y	1067
RT61012	1123	RVD1N4739	562	S-05-04	1104	S1QB40	1173	S2Z20	1143	S20ND400	1104	S106Y1	1067
RTC0103	1067	RVD1S554	1122	S-05-06	1104	S1QB40Z	1173	S2Z40	1144	S20NH400	1104	S106Y2	1067
RTJ0103	1067	RVD2-1K110	1123	S-05-08	1114	S1R12B	563	S3A05	1141	S21	1104	S107	1104
RTJ0106	1067	RVD2DP	1104	S-05-10	1114	S1R13B	563	S3A06	1104	S22	1104	S107-05	1067
RTJ0110	1067	RVD2DP22/1B	1104	S010G	1114	S1R20	1122	S3A025	1141	S22A	1104	S107-1	1067
RTJ0120	1067	RVD2DP22/1C	1171	S031A	1617	S1R60	1104	S3A1	1143	S23	1104	S107-2	1067
RTJ0130	1020	RVD2DP22/1B	1104	S037	1617	S1RB	1171	S3A2	1143	S23A	1104	S107-4	1020
RTJ0140	1020	RVD2DP221B	1171	S042P	2035	S1RB-10	1171	S3A3	1144	S24	1114	S107A1	1067
RTJ0201	1067	RVD2DP221P	1104	S074-007-001	1122	S1RB10	1171	S3A4	1144	S26	1104	S107A2	1067
RTJ0203	1067	RVD2P22/1B	1104	S0300K52	1067	S1RB40	1173	S3AR1	1104	S28	1114	S107B2	1067
RTJ0206	1067	RVD4B265J2	1104	S0303MS2	1067	S1RB40Z	1173	S3BA05	1141	S30	1104	S107C1	1020
RTJ0210	1067	RVD8MB4	1171	S0303MS3	1067	S1RBA	1171	S3CN1	1144	S31	1104	S107C2	1020
RTJ0215	1020	RVD8MBA	1104	S0303RS2	1067	S1RBA10	1173	S3G4	1114	S32	1104	S107D1	1020
RTJ0220	1067	RVD10D1	1104	S0303RS3	1067	S1RBA20	1173	S3G10	1143	S33	1104	S107D2	1020
RTJ0225	1020	RVD10DC1	1104	S0304F1	1067	S1RBA20Z	1173	S3G20	1143	S34	1122	S107F1	1067
RTJ0230	1020	RVD10DC1R	1104	S-0501	1104	S1RBA40Z	1173	S3G40	1144	S35	1104	S107F2	1067
RU-1	1104	RVD10E1	1104	S0501	1104	S1RBA40Z	1173	S3G40Z	1144	S36	1104	S107Y1	1067
RU1	1104	RVD10E1LF	1104	S0501L	1104	S1RC20	1104	S3GR2	1144	S40	1104	S107Y2	1067
RU-1A	1104	RVD10E11F	1104	S0503L53	1114	S1RC20R	1104	S3M1	1143	S40A	1104	S108	1104
RU1A	1104	RVD12B-1	1171	S0503M	1067	S1S2	1122	S3MX	1104	S43	1104	S115	1104
RU-1AV	1104	RVDC08P1	1104	S0503MS2	1067	S1S3H	1104	S3V-10	1114	S44	1104	S129	1104
RU-1V	1104	RVDCD0033	561	S0503MS3	1067	S1S4M	1104	S3V10	1114	S46	1104	S130-138	2016
RU1Z	1104	RVDD1248	1171	S0503RS2	1067	S1S11	1123	S3V20	1114	S47	1104	S130-251	2016
RU-2	1104	RVDD1245	1171	S0503RS3	1067	S1S20	1123	S3V40	1114	S48	1104	S133-1	1617
RU2	1104	RVDD5-410	1104	S0504F1	1067	S1SD-1	1104	S3V60	1114	S49	1104	S160	1122
RU2AM	1104	RVDEQA01065	561	S0515G	1067	S1SD-1HF	1104	S3VC10	1114	N2	561	S169N	1617
RU2AN	1104	RVDPG05A	1104	S0515H	1067	S1SD-1X	1104	S3VC10R	1114	N1	562	S191G	1104
RU2B	1104	RVDKB162C5	1104	S0702	562	S1SM-150-01	1104	S3VC20	1114	N2	563	S200	1104
RU-2M	1104	RVDKB265J2	1122	S0704	1617	S1SM-150-02	1104	S3VC20R	1114	N1	572	S201	1104
RU2M	1104	RVDMZ206	561	S1	1104	S1VB-10	1171	S3VC40	1114	N2	573	S202	1104
RU-2V	1104	RVDMZ209	562	S1-1	1104	S1VB10	1171	S3VC40R	1114	N1	575	S203	1104
RU2Z	1104	RVDO.8C2211A	1144	S1-RECT-35	1122	S1VB10S	1171	S4A06	1104	S77	1104	S204	1104
RU3	1104	RVDR5R6EB	561	S1-RECT-102	1104	S1VB40	1173	S4A06	1104	S79	1104	S205	1104
RU3A	1104	RVDR154B	1171	S1A	1104	S1VB40Z	1173	S4AR1	1104	S81	1104	S20B	1114
RU3AM	1104	RVDRD5A1E	565	S1A06	1104	S1Y	1067	S4AR2	1104	S82	1104	S217	1104
RU3AN	1104	RVDRD5R1EB	565	S1A060	1104	S1.5	1104	S4AR30	1104	S83	1104	S218	1104
RU-3B	1104	RVDRD5R1EBB1	565	S1A6F	1104	S-1.5-0	1104	S4C	1104	S84	1104	S219	1104
RU3B	1104	RVDS5277B	1104	S1A60	1104	S1.5-01	1104	S4CN1	1143	S85	1104	S220	1104
RU-3M	1104	RVDS-1U	1104	S1A80	1114	S-1.5-02	1104	S4FN300	1104	S86	1104	S221	1104
RU3M	1104	RVDS-1Y	1104	S1A100	1114	S-1.5-04	1104	S4GR2	1143	S91	1104	S222	1104
RUD2DP2/1B	1104	RVDSG-5N	1114	S1AR1	1104	S-1.5-06	1104	S4M1	1144	S91-A	1104	S223	1104
RV06	1104	RVDSG-5P	1114	S1AR2	1104	S-1.5-08	1114	S5AR1	1104	S91-H	1104	S224	1104
RV1	1104	RVDSMIA02TPA	1104	S1B	1104	S-1.5-10	1114	S5AR2	1104	S91A	1141	S227(JAPAN)	1122 N3
RV2	1104	RVDSR3AM2N	1104	S1B01	1104	S-2	1104	S5CN1	1144	S91B	1143	S229	1143
RV6.2	561	RVDDV1250M	1122	S1B01-01	1104	S2A06	1104	S5M1	1144	S91H	1104	S230	1104
RV555NB	1723	RV25C645	2016	S1B-01-02	1104	S2A10	1104	S5S	1104	S92	1104	S232	1104
RV556DB	1728	RVTC51381	1617	S1B01-02	1104	S2A20	1143	S5S	1104	S92-A	1104	S233	1104
RV741NB	007	RVTC51382	2023	S1B01-0226	1104	S2A30	1144	S6-3	1171	S92-H	1104	S234	1104
RV1017	1122	RVTC51383	1617	S1B02	1104	S2A40	1144	S6AR1	1104	S92A	1141	S235	1104
RV1059	2023	RVTC51384	2016	S1B02-0	1104	S2A06	1141	S6AR2	1104	S92H	1104	S236	1143
RV1068	2016	RVTC51473	2016	S1B02-03C	1114	S2AR1	1104	S7-8	1122	S93	1104	S238	1104
RV1189	1102	RVTMCO0921-3	1101	S1B02-06CE	1104	S2AR2	1104	S7AR1	1114	S93A	1104	S239	1104
RV1226	1122	RVTMK10-2	2035	S1B02-06CRE	1104	S2C30	1104	S8-06	1114	S93H	1104	S240	1104
RV1395	2009	RVTMK10-E	2035	S1B02-C	1104	S2C40	1104	S8-10	1114	S93SE133	2041	S241	1104
RV1424	1104	RVT522410	1617	S1B02-CR	1104	S2C40A	1104	S8AR1	1114	S93SE165	2041	S243	1104
RV1467	2016	RVT522411	2023	S1B02-O	1104	S2CN1	1143	S8AR2	1114	S94	1104	S250	1104
RV1468	2016	RX090	562	S1B0101CR	1104	S2E20	1104	S9AR1	1114	S95	1104	S251	1104
RV1469	2016	RX-DX0131CEZZ	1104	S1B0102	1104	S2E60	1104	S10	1104	S-99(,15555)	1122	S252	1104
RV1470	2016	RY23	1102	S1B0201B	1171	S2E60-1	1104	S10A	1104	S100	1116	S253	1104
RV1471	2005	RY24	1103	S1B0201CR	1104	S2E100	1114	S10AR1	1114	S101	1104	S254	1104
RV1473	2030	RZ-3	1114	S1B-0306	1104	S2F10	1104	S10AR2	1114	S102	1104	S255	1104
RV1474	2005	RZ4.7	565	S1B1	1104	S2F20	1104	S10K130	570	S-102V	1104	S256	1104
RV1476	1144	RZ5.1	565	S1BD1-02	1104	S2GR2	1143	S11	1122	S103	1104	S257	1114
RV1478	1104	RZ6.2	561	S1C	1114	S2K20	1104	S-12	1143	S104	1104	S258	1114

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
S260	1114	S1212N	2035	S1533	1617	S2123	1617	S4003	1104	S29956	2016	SA413	2023
S262	1104	S1213N	2035	S1559	1617	S2124	1617	S4003M	1020	S31551	2023	SA414	2023
S298	1122	S1214N	2035	S1568	1617	S2128	2023	S4003MS2	1020	S31866	2009	SA415	2023
S305	2041	S1215N	2035	S1570	1617	S2129	2023	S4003MS3	1020	S32417	2016	SA416	2023
S305A	2041	S1216N	2035	S1600	1104	S2131	2016	S4003RS2	1020	S32669	2016	SA429A	2023
S321	1122	S1220	1143	S1619	1617	S2132	2016	S4003RS3	1020	S33529	2027	SA429B	2023
S322	1122	S1221	1617	S1620	1617	S2133	2016	S4004F1	1020	S33530	2020	SA429C	2023
S324	1122	S1221A	1617	S1629	1617	S2134	2016	S4249	2023	S33755	2009	SA429D	2023
S325	1122	S1221N	2035	S1636	2016	S2159	2016	S5014(HEP)	2030	S33990	2016	SA429E	2023
S334	1122	S1222N	2035	S1642	2030	S2171	1617	S5020	2016	S34540	1617	SA429F	2023
S337	1122	S1223N	2035	S1644	2030	S2172	1617	S5021	2016	S35232	2016	SA429G	2023
S353	2041	S1224N	2035	S1671	2030	S2209	2030	S5089-A	1104	S35233	2016	SA429L	2023
S398	1122	S1225N	2035	S1674	2016	S2224	2016	S5177B	1104	S36951	2009	SA429M	2023
S400	1122	S1226	1617	S1674A	2016	S2225	1617	S5230	565	S37162	2020	SA429R	2023
S401	1122	S1226N	2035	S1682	2016	S2241	2041	S5230A	565	S37165	2027	SA429T	2023
S402	1122	S1227	2016	S1683	2030	S2369	2030	S5230B	565	S37166	2020	SA429X	2023
S403	1122	S1230	1144	S1685	2041	S2371	2030	S-5277B	1104	S37182	2009	SA429Y	2023
S409F	2030	S1231N	2035	S1689	2030	S2392	2041	S5277B	1104	S37214	2009	SA465A	2023
S428	1104	S1232N	2035	S1691	2041	S2397	1617	S5277D	1102	S37423	2009	SA465B	2023
S431	1104	S1233N	2035	S1692	2041	S2400	2030	S5277G	1103	S38763	2009	SA465C	2023
S-500	1114	S1234N	2035	S1697	1617	S2400A	2030	S5277J	1104	S38787	2009	SA465D	2023
S500	1122	S1235N	2035	S1761	1617	S2400B	2030	S5277L	1114	S38789	1617	SA465E	2023
S-500B	1104	S1236N	2035	S1761A	1617	S2401	2030	S5277N	1114	S38854	2009	SA465F	2023
S500B	1144	S1240	1144	S1761B	1617	S2401A	2030	S5295	1122	S39094	2023	SA465G	2023
S-500C	1104	S1241	1617	S1761C	1617	S2401B	2030	S5295B	1104	S39261	2027	SA465L	2023
S500C	1144	S1242	1617	S1762	2030	S2401C	2030	S5295D	1104	S39262	2020	SA465M	2023
S501	1122	S1243	1617	S1764	1617	S2402	2030	S5295G	1104	S40204	2016	SA465R	2023
S502	1122	S1245	1617	S1765	1617	S2402A	2030	S5295I	1104	S95125	2016	SA465T	2023
S504	1122	S1272	1617	S1766	1617	S2402B	2030	S5295J	1104	S95125A	2016	SA465X	2023
S505	1122	S-1276	2016	S1768	1617	S2402C	2030	S5327E	2016	S95126	2016	SA465Y	2023
S506	1122	S1276	2016	S1770	1617	S2403B	2041	S5328E	2016	S95126A	2016	SA467A	2023
S507	1122	S1286	2016	S1772	1617	S2403C	2041	S5500-D	1104	S95202	1617	SA467B	2023
S508	1122	S-1296	2016	S1773	2030	S2427	2030	S5500B	1104	S326690	2016	SA467C	2023
S509	1122	S1296	2016	S1777	2030	S2438	2058	S5500D	1104	S1977634	2041	SA467D	2023
S518T	2055	S1307	1617	S1784	1617	S2471	2041	S5500G	1103	SA1M1	1143	SA467E	2023
S520	2023	S1308	2016	S1785	1617	S2487	2030	S5566B	1104	SA-2	1114	SA467F	2023
S630T	2055	S1309	1617	S1788	2009	S2525	2023	S5566G	1103	SA2	1104	SA467L	2023
S715	2017	S-1313	2016	S1801-02	1104	S2526	2030	S5566J	1104	SA-2A	1114	SA467M	2023
S750	1114	S1313	2016	S1835	1617	S2581	1617	S5566N	1114	SA-2B	1114	SA467R	2023
S750C	1114	S-1316	2016	S1864	2030	S2582	1617	S5670E	1020	SA2B	1104	SA480A	2023
S-798	1104	S1316	2016	S1865	2041	S2590	1617	S6004F1	2016	SA-2C	1114	SA480B	2023
S801	2017	S1317	2016	S1871	1617	S2593	1617	S6005	1104	SA2H	1114	SA480C	2023
S-810	1104	S-1318	2016	S1874	2030	S-2617	2016	S6142	1020	SA2M1	1143	SA480D	2023
S855	1101	S1318	2016	S1878	2009	S2617	2016	S6142C	1020	SA-2Z	1114	SA480E	2023
S1000-1	1114	S1331	1617	S1889	2023	S2617(UHF)	2016	S6142G	1020	SA2Z	1114	SA480F	2023
S1003M	1067	S1331N	1617	S1891	1617	S2635	1617	S6340G	1020	SA3B	1104	SA480G	2023
S1003MS2	1067	S1331W	1617	S1891A	1617	S2636	1617	S6344G	1020	SA3M1	1144	SA480L	2023
S1003MS3	1067	S1350	2023	S1891B	1617	S2645	2023	S6801	1617	SA50	2023	SA480M	2023
S1003RS2	1067	S1360	2016	S1897	2016	S2648	2030	S6804	2030	SA51	2023	SA480R	2023
S1003RS3	1067	S1361	2016	S1905	2041	S2716	2058	S7004	2041	SA51A	2023	SA480T	2023
S1004F1	1067	S1362	2016	S1905A	2041	S2718	2058	S7006(HEP)	2027	SA52	2023	SA480X	2023
S1006RS2	1067	S1363	1617	S1907	2041	S2719	2016	S7502	1020	SA52A	2023	SA480Y	2023
S1006RS3	1067	S1364	1617	S1955	1617	S2741	2041	S7503	1020	SA52B	2023	SA482A	2023
S1009	2016	S1367	2023	S1993	1617	S2794	2030	S9631	2009	SA53	2023	SA482B	2023
S1010	1143	S1368	2030	S2000KS2	1067	S2935	1617	S10149	1104	SA54	2023	SA482C	2023
S1016	1617	S1369	1617	S2002	2016	S2944	1617	S15649	1617	SA54A	2023	SA482D	2023
S-1019	2016	S1373	1617	S2003-1	2041	S2984	1617	S15650	2016	SA55	2023	SA482E	2023
S1019	2016	S1374	1617	S2003MS2	1067	S2985	1617	S15657	2016	SA56	2023	SA482F	2023
S-1019(UHF)	2016	S1384	1123	S2003MS3	1067	S2988	2023	S15658	2016	SA70	2023	SA482G	2023
S1020	1143	S1403	1617	S2003RS2	1067	S2989	1617	S15659	2016	SA78HV05CU	1770	SA482L	2023
S1030	1144	S1405	1617	S2003RS3	1067	S2992	2030	S15660	2030	SA78HV12CU	1771	SA482M	2023
S1037	2016	S1408	2016	S2004F1	1067	S2996	1617	S17900	2030	SA95A	2023	SA482R	2023
S1040	1144	S1409	2016	S2034	1617	S2997	1617	S18080	2030	SA95B	2023	SA482T	2023
S1041	2016	S1419	1617	S2038	2016	S2998	1617	S18100	2023	SA95C	2023	SA482X	2023
S1041-16GN	2016	S1420	1617	S2041	2027	S2999	1617	S18200	2030	SA95D	2023	SA482Y	2023
S1044	2016	S1421	2030	S2042	2020	S3004	2023	S19386	2030	SA95E	2023	SA493A	2023
S1058	2016	S1428	1122	S2043	1617	S3004(HEP)	2023	S21271	1123	SA95F	2023	SA493B	2023
S1059	2016	S1429-3	1617	S2044	1617	S3004-1715	561	S21549	2030	SA95G	2023	SA493C	2023
S1061	1617	S1432	1617	S2060A	1067	S3004-1716	1122	S21639	562	SA95L	2023	SA493D	2023
S1062	2016	S1443	1617	S2060B	1067	S3004-1718	561	S21648	2016	SA95M	2023	SA493E	2023
S1065	1617	S1453	1617	S2060C	1020	S3019	2016	S22543	1617	SA95R	2023	SA493F	2023
S1066	1617	S1475	2009	S2060D	1020	S3020	2016	S23130	2023	SA95T	2023	SA493G	2023
S1068	1617	S1476	1617	S2061A	1067	S3030G	1123	S23579	2009	SA95X	2023	SA493L	2023
S1069	1617	S1477	2023	S2061B	1067	S3042	2030	S24226	2023	SA95Y	2023	SA493M	2023
S1074(R)	1617	S1487	1617	S2061C	1020	S3060(HEP)	2020	S24591	1617	SA282	1122	SA493R	2023
S1074(X)	1067	S1502	1617	S2061D	1020	S3061(HEP)	2020	S24592	2016	SA283	1122	SA493T	2023
S1076	2016	S1510	1617	S2062A	1067	S3072C	1122	S24596	1617	SA310	2023	SA493X	2023
S1078	2016	S1512	1617	S2062B	1067	S3372G	1123	S24598	2030	SA311	2023	SA493Y	2023
S1079	2016	S1514	2030	S2062C	1020	S3603G	1123	S24614	2030	SA312	2023	SA494A	2023
S1122	2016	S1516	2030	S2062D	1020	S3639	2023	S24616	2030	SA313	2023	SA494B	2023
S1126	2016	S1517	2030	S2062F	1067	S3655	2023	S25261	2016	SA313A	2023	SA494C	2023
S1128	1617	S1523	2030	S2062Y	1067	S3771	2041	S25805	2016	SA314	2023	SA494D	2023
S1142	2016	S1525	2030	S2085	1123	S3838GA	1123	S25941	2016	SA315	2023	SA494E	2023
S1143	1617	S1526	1617	S2091	2023	S3961G	1123	S26822	2009	SA316	2023	SA494F	2023
S1153	2016	S1527	1617	S2118	2030	S4000KS2	1020	S27233	2030	SA410	2023	SA494G	2023
S1210	1143	S1529	1617	S2121	1617	S4001	1104	S27604	2016	SA411	2023	SA494L	2023
S1211N	2035	S1530	1617	S2122	1617	S4002	2016	S27893	2058	SA412	2023	SA494M	2023

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SA778T	2023	SB-3	1104	SC146B	1000	SCBR1F	1114	SD-1-211B	1104	SD-43	1122	SD632(10)	562
SA778Y	2023	SB-3-02	1104	SC146B1	1000	SCBR6	1114	SD1-211B	1104	SD43	1122	SD701-02	1122
SA821	561	SB-3F	1114	SC146B2	1000	SCBR6F	1114	SD-1-211C	1104	SD45	1104	SD800	1114
SA821A	561	SB-3F01	1104	SC146B3	1000	SCBR35F	1114	SD1-Z	1104	SD-46	1123	SD910	1114
SA823	561	SB-3N	1104	SC146B4	1000	SCE1	1104	SD-1A	1104	SD46	1123	SD910A	1114
SA823A	561	SB120	1101	SC146B5	1000	SCE2	1104	SD1A	1104	SD46(4)	1123	SD9105	1114
SA825	561	SB130	1101	SC146B6	1000	SCE3	1104	SD-1AHF	1101	SD-46-2	1123	SD950	1104
SA825A	561	SB140	1101	SC147	2009	SCE4	1104	SD-1AUF	1122	SD46-2	1123	SD974	1122
SA827	561	SB150	1101	SC147A	2016	SCE6	1104	SD-1B	1104	SD46R	1123	SD1023	2017
SA827A	561	SB160	1104	SC147B	2016	SCE8	1114	SD1B	1114	SD50	1101	SD1101	1104
SA829	561	SB170	1104	SC148	2016	SCE10	1114	SD1C	1114	SD53	563	SD1102	1104
SA829A	561	SB180	1104	SC148A	2016	SCL4001	2401	SD-1C-4F	1104	SD54	1123	SD1103	1104
SA836A	2023	SB302	1104	SC148B	2016	SCL4001B	2401	SD-1C-UF	1104	SD-56	1123	SD1335	2020
SA836B	2023	SB-309A	1104	SC148C	2016	SCL4001BC	2401	SD-1CUF	1104	SD56	1123	SD1345	2020
SA836C	2023	SB309A	1171	SC149	2016	SCL4001BD	2401	SD1CUF	1104	SD-60	1123	SD1445	2027
SA836D	2023	SB-309C	1104	SC149B	2016	SCL4001BE	2401	SD1DM-4	1104	SD60	1123	SD11441	2016
SA836E	2023	SB309C	1171	SC149C	2009	SCL4001BF	2401	SD-1HF	1104	SD-60P	1104	SDA345	2020
SA836F	2023	SB315	1104	SC157V1	2023	SCL4001UBD	2401	SD1HF	1104	SD60P	1101	SDA445	2027
SA836G	2023	SB320	1114	SC158B	2023	SCL4001UBE	2401	SD-1L	1104	SD-61P	1104	SD8345	2020
SA836L	2023	SB330	1114	SC158V1	2023	SCL4001UBF	2401	SD1L	1104	SD61P	1103	SD8445	2027
SA836M	2023	SB332	1104	SC159B	2023	SCL4001UBH	2401	SD-1LA	1104	SD-80	1104	SD-BA244A	1122
SA836R	2023	SB333	1104	SC174	2009	SCL4009UBE	2449	SD1LA	1104	SD80	1104	SD55	1101
SA836T	2023	SB340	1114	SC174A	2009	SCL4011	2411	SD-1N34A	1123	SD-91	1104	SD6	1101
SA836X	2023	SB350	1114	SC174B	2009	SCL4011B	2411	SD-1N60	1123	SD91	1141	SDA420	2030
SA836Y	2023	SB360	1114	SC257V1	2023	SCL4011BC	2411	SD-1N60S	1123	SD-91A	1104	SDA421	1617
SA841A	2023	SB370	1114	SC258B	2023	SCL4011BD	2411	SD-1N4148	1122	SD91A	1143	SD820	2016
SA841B	2023	SB380	1114	SC258V1	2023	SCL4011BE	2411	SD1P60XXXXFT	1123	SD-91S	1104	SD821	1617
SA841C	2023	SB393	1104	SC259B	2023	SCL4011BF	2411	SD-1S1555	1122	SD91S	1143	SDD1220	2030
SA841D	2023	SB821	561	SC305	1104	SCL4011BH	2411	SD-1S2076	1122	SD-92	1104	SD33000	1617
SA841E	2023	SB821A	561	SC350	1617	SCL4011UBC	2411	SD-1U	1104	SD92	1143	SDS5442XXXXXX	1122
SA841F	2023	SB823	561	SC785	1617	SCL4011UBD	2411	SD-1UF	1104	SD-92A	1104	SDDSF10XCXXXXT	1102
SA841G	2023	SB823A	561	SC786	2016	SCL4011UBE	2411	SD-1X	1104	SD92A	1143	SD-ERB24-04D	1104
SA841L	2023	SB825	561	SC821	561	SCL4011UBF	2411	SD1X	1104	SD-92S	1104	SDGMA01XXXXXT	1122
SA841M	2023	SB825A	561	SC821A	561	SCL4011UBH	2411	SD-1Y	1104	SD92S	1143	SDGZA062YXXXX	561
SA841R	2023	SB827	561	SC823	561	SCL4013	2413	SD1Y	1104	SD-93	1104	SDH-2	1123
SA841T	2023	SB827A	561	SC823A	561	SCL4013AC	2413	SD-1Z	1104	SD93	1144	SDI345	2020
SA841X	2023	SB829	561	SC825	561	SCL4013AD	2413	SD1Z	1104	SD-93A	1104	SDI445	2027
SA841Y	2023	SB829A	561	SC825A	561	SCL4013AE	2413	SD-1ZHF	1104	SD93A	1144	SD-IN4148	1122
SA842A	2023	SB1000	1104	SC827	561	SCL4013AF	2413	SD1ZHF	1104	SD93S	1104	SDJ345	2020
SA842B	2023	SBEB05	1171	SC827A	561	SCL4013AH	2413	SD-2	1104	SD-94	1104	SDJ445	2027
SA842C	2023	SBRO5	1171	SC829	561	SCL4013BC	2413	SD2	1114	SD94	1144	SDK345	2027
SA842D	2023	SBR-260	1104	SC829A	561	SCL4013BD	2413	SD2A	1104	SD-94A	1104	SDK445	2020
SA842E	2023	SC05	1104	SC832	1617	SCL4013BE	2413	SD2B	1104	SD94A	1144	SDL345	2027
SA842F	2023	SC05E	1104	SC842	1617	SCL4013BF	2413	SD2C	1114	SD-94AB	1104	SDL445	2020
SA842G	2023	SC1	1104	SC1001	1617	SCL4013BH	2413	SD-2N5062	1067	SD94AB	1104	SDM345	2020
SA842L	2023	SC2	1104	SC1010	1617	SCL4013BP	2413	SD4	1104	SD94B	1104	SDM445	2027
SA842M	2023	SC2C	1104	SC1168G	1617	SCL4017	2417	SD-5	1122	SD94S	1104	SDN201	2068
SA842R	2023	SC-4	1104	SC1168H	1617	SCL4017ABC	2417	SD5	1104	SD-95	1104	SDN345	2020
SA842T	2023	SC4	1104	SC1227F	2016	SCL4017ABD	2417	SD5(DUAL)	1101	SD95	1104	SDN445	2027
SA842X	2023	SC-6	1123	SC1227G	2016	SCL4017ABE	2417	SD-5(PHILCO)	1122	SD-95A	1104	SDO345	2020
SA842Y	2023	SC-7	1020	SC1229E	2030	SCL4017ABF	2417	SD-6	565	SD95A	1104	SDP345	2020
SA909A	2023	SC-7(PHILCO)	1020	SC1229G	1617	SCL4017ABH	2417	SD6	1104	SD96	1104	SDR3A	1114
SA909B	2023	SC8	1114	SC4001BH	2401	SCL4017AC	2417	SD6(DUAL)	1143	SD96A	1104	SDR-25	1104
SA909C	2023	SC8A	1114	SC4001UBC	2401	SCL4017AD	2417	SD-7	1122	SD96S	1104	SDR25	1104
SA909D	2023	SC10	1114	SC4010	1617	SCL4017AE	2417	SD7	1122	SD98	1114	SDR3001	1114
SA909E	2023	SC10A	1114	SC4044	1617	SCL4017AF	2417	SD-7(PHILCO)	1122	SD98A	1114	SDR3002	1114
SA909F	2023	SC12(DIODE)	1122	SC4116	1104	SCL4017AH	2417	SD-8	562	SD98S	1114	SDS113	1104
SA909G	2023	SC-16	1104	SC4131	2030	SCL4017B	2417	SD8	1114	SD100	1122	SDS240	2016
SA909L	2023	SC16	1104	SC4131-1	2030	SCL4017BC	2417	SD-8(PHILCO)	562	SD-101	1104	SDT425	2055
SA909M	2023	SC29	1122	SC4135	2030	SCL4017BD	2417	SD10	1104	SD101	1122	SDT445	2027
SA909R	2023	SC54	1123	SC4167	2030	SCL4017BE	2417	SD11F	1123	SD102	1122	SDT1006	2055
SA909T	2023	SC65	1617	SC4244	2030	SCL4017BF	2417	SD-12	1123	SD103	1122	SDT1007	2055
SA909X	2023	SC91	562	SC4303	2020	SCL4017BH	2417	SD12	1123	SD104	1104	SDT1016	2055
SA909Y	2023	SC107	2009	SC4303-1	2020	SCL4049	2449	SD12B	1123	SD105	1104	SDT1017	2055
SA7805CU	1770	SC107A	2009	SC4303-2	2020	SCL4449UBE	2449	SD12E	1123	SD-109	2009	SDT3326	2017
SA7812CU	1771	SC107B	2009	SC4308	2020	SCP5E	1104	SD12M	1123	SD109	2009	SDT3509	2027
SA81044	2016	SC108	2009	SCA05	1104	SCR15	1067	SD-13	1104	SD-110	1122	SDT3510	2027
SA83469	2016	SC108A	2009	SCA1	1104	SCR104(ELCOM)	1067	SD13	1104	SD-150	1123	SDT3513	2027
SAC-1843	2016	SC108B	2009	SCA2	1104	SCR108	1067	SD-14	1123	SD160	1122	SDT3514	2027
SAW-1S1941	1104	SC108C	2009	SCA3	1104	SCR108(ELCOM)	1067	SD14	1123	SD165	1122	SDT3701	2027
SAW-1S1944	1114	SC109	2009	SCA4	1104	SCR200	1067	SD-15	562	SD-201	1104	SDT3702	2027
SAW-25C372GR	2009	SC109A	2009	SCA5	1104	SCR218	1067	SD15	1123	SD201	1104	SDT3703	2027
SAW-25C372Y	2009	SC109B	2009	SCA6	1104	SCR218(ELCOM)	1067	SD-16	1123	SD202	1104	SDT3704	2027
SAW-25C945R	2009	SC110	1104	SCA8	1114	SCR404(ELCOM)	1020	SD16	1123	SD345	2020	SDT3706	2027
SB-01	1171	SC116D	1000	SCA10	1114	SCT1	1114	SD-16A	1104	SD445	2027	SDT3707	2027
SB01	1104	SC136B	1000	SCA1103	1104	SCT2	1114	SD-16D	1104	SD461	1123	SDT3708	2027
SB01-02	1122	SC136D	1000	SCA3022	2016	SCT3	1114	SD-18	1104	SD-470	1104	SDT3709	2027
SB-03	1104	SC141B	1000	SCA3235	2016	SCT4	1114	SD18	1104	SD470	1104	SDT3710	2027
SB-04	1173	SC141B1	1000	SCA3236	2016	SCT5	1114	SD-19	1171	SD500	1122	SDT3711	2027
SB0319	2020	SC141B2	1000	SCA3237	2016	SD05	1104	SD20	1104	SD500C	1104	SDT3712	2027
SB1-01-04	1104	SC141B3	1000	SCA3238	2016	SD-07	1104	SD21	1123	SD501	1104	SDT3713	2027
SB-1AHF	1103	SC141B4	1000	SCA3239	2016	SD07	1104	SD21A	1123	SD600	1122	SDT3715	2027
SB-1Z	1104	SC141B5	1000	SCA3240	2016	SD020	1123	SD23	1104	SD600C	1104	SDT3716	2027
SB1Z	1141	SC141B6	1000	SCA3243	2016	SD040	1104	SD-27	562	SD-630	1122	SDT3717	2027
SB-2(CENTERING-58	1101	SC142B	1000	SCA3244	2016	SD0345	2020	SD33	563	SD630	1122	SDT3720	2027
SB2CH	1114	SC142D	1000	SCA3246	2016	SD1	1104	SD-34	1122	SD-632	562	SDT3721	2027
		SC143D	1000	SCBR05F	1114	SD1-1	1104	SD34	1123	SD632	562	SDT3722	2027

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SDT3725	2027	SE-05X	1104	SE5051	2016	SF4CN1	1114	SFT104	1123	SH302A	1122	SHC#B018XXX	2401
SDT3726	2027	SE-0.5A	1144	SE5052	2016	SFS	1114	SFT108	1123	SH1064	1617	SIR20	1106
SDT3727	2027	SE-0.5B	1104	SE5055	2009	SF6	1114	SFT400	2030	SHA7530	2023	SHW60	1104
SDT3729	2027	SE-1 SA	1114	SE5056	2016	SF16D12	1067	SFT443	2030	SHA7531	2023	SIR-80	1104
SDT3730	2027	SE-2	1104	SE5151	1617	SF115	2058	SFT443A	2030	SHA7532	2023	SIR80	1104
SDT3733	2027	SE-5	1104	SE-6001	1617	SF115A	2058	SFT445	2030	SHA7533	2023	SIRB-10	1171
SDT4455	2017	SE5-0996	2035	SE6001	2030	SF115B	2058	SFT713	1617	SHA7534	2023	SIRB10	1114
SDT4483	2017	SE6(DUAL)	1101	SE-6002	1617	SF115C	2058	SFT714	1617	SHA7536	2023	SIRBA00	1173
SDT4551	2017	SE30B26A	1104	SE6002	2016	SF115D	2058	SFZ716	563	SHA7537	2023	SIRBA10	1173
SDT4553	2017	SE46	1104	SE6006	2030	SF115E	2058	SG-005	1104	SHA7538	2023	SI-RECT-73	1104
SDT4583	2017	SE500G	2016	SE6010	1617	SF167	2016	SG005	1144	SHAD-1	1104	SI-RECT-044	1104
SDT4611	2017	SE504	2016	SE6020	1617	SF173	2016	SG-5N	1114	SI05	1141	SI-RECT-2	1104
SDT4612	2017	SE521	2016	SE6020A	2030	SF194	2016	SG-5P	1114	SI-05A	1114	SIRECT-2	1104
SDT4614	2017	SE555V	1723	SE6021	2030	SF194B	2016	SG-5T	1104	SI05A	1141	SI-RECT-20	1104
SDT4615	2017	SE1001	2016	SE6021A	2030	SF195	2016	SG-105	1104	SI1	1143	SI-RECT-25	1104
SDT5011	2017	SE1001-1	2058	SE6022	2030	SF195C	2016	SG105	1104	SI-1A	1114	SI-RECT-27	1104
SDT5102	2020	SE1001-2	2058	SE6023	2030	SF195D	2016	SG-205	1104	SI1A	1143	SI-RECT-33	1104
SDT5112	2027	SE-1002	1617	SE7005	2030	SF196	2016	SG205	1143	SI15554	1122	SI-RECT-34	1104
SDT5511	2017	SE1002	2016	SE7015	2030	SF197	2016	SG224J	1711	SI2	1143	SI-RECT-35	1122
SDT5901	2017	SE1002-1	2016	SE8001	2030	SF294	2016	SG224N	1711	SI-2A	1114	SIRECT-36	1104
SDT5902	2017	SE1002-2	2016	SE8002	2030	SF294B	2016	SG-305	1104	SI3	1144	SI-RECT-37	1104
SDT5906	2017	SE-1010	2016	SE8010	2030	SF295	2016	SG305	1144	SI-3A	1114	SI-RECT-39	1104
SDT5907	2020	SE1010	2016	SE8012	2030	SF295C	2016	SG323	1104	SI4	1144	SI-RECT-48	1104
SDT5901	2020	SE1019	2016	SE8040	1617	SF295D	2016	SG324N	1711	SI-4A	1114	SIRECT-48	1104
SDT6011	2020	SE1044	2016	SE8041	2030	SF310	2016	SG505	1104	SI-5A	1114	SI-RECT-49	1104
SDT6013	2020	SE1331	1617	SE8042	2030	SF314	2016	SG555CM	1723	SI-6A	1114	SI-RECT-50	1114
SDT6031	2020	SE1419	2016	SE8510	2030	SF334	2030	SG555M	1723	SI-7A	1114	SI-RECT-53	1104
SDT6101	2017	SE1730	1114	SE8520	2030	SF334B	2016	SG723CN	1740	SI-8A	1114	SI-RECT-59	1104
SDT6102	2017	SE2001	2016	SE8521	2030	SF335	2016	SG741CM	007	SIB8A	1114	SI-RECT-69	1104
SDT6103	2020	SE2002	2016	SE9002	2041	SF335C	2016	SG-805	1104	SI-10A	1114	SI-RECT-73	1104
SDT6104	2017	SE2020	2016	SE9080	2041	SF335D	2016	SG-1198	1104	SI10A	1114	SI-RECT-75	1104
SDT6105	2017	SE2397	2016	SELEN-42	1101	SF1001	1617	SG1198	1104	SI50E	1104	SI-RECT-77	1104
SDT6106	2017	SE2401	1617	SELEN-44	1171	SF1713	1617	SG1458M	038	SI91G	1104	SI-RECT-84	1104
SDT7511	2020	SE2402	1617	SELEN-64	1114	SF1714	1617	SG1488J	2520	SI100E	1104	SI-RECT-92	1104
SDT7512	2020	SE-3001	2016	SELEN-70	1104	SF1726	1617	SG1489J	2521	SI-154	1104	SIRECT-92	1104
SDT7514	2020	SE3001	2016	SELEN-701	1104	SF1730	1617	SG3400	1104	SI100DE	1114	SI-RECT-94	1104
SDT7515	2020	SE3001R	2016	SEN 105	1101	SFC400E	1801	SG5009	1122	SI-1002	1104	SI-RECT-100	1104
SDT7601	2041	SE3002	2016	SEN 110	1104	SFC401E	1801	SG5013	2030	SI-1006	1104	SI-RECT-100-702	1104
SDT7602	2041	SE3003	2016	SEN 120	1102	SFC408E	1822	SG5400	1122	SI-1014	1104	SI-RECT-102	1104
SDT7603	2041	SE3005	2016	SEN 130	1103	SFC2458DC	038	SG5717	1122	SI-1020	1104	SI-RECT102	1104
SDT7607	2041	SE3019	2016	SEN 140	1103	SFC2805EC	1770	SG7400N	1801	SI-1021	1104	SIRECT-102	1104
SDT7608	2041	SE3022	2041	SEN 150	1704	SFC2812EC	1771	SG7812	1771	SI-1030	1104	SI-RECT-110	1114
SDT7609	2041	SE3033	2041	SEN 160	1104	SFC2815EC	1772	SG7918CP	1104	SIB01	1104	SI-RECT-110-SIL-3F	1104
SDT7731	2041	SE3035	2041	SEN 180	1114	SFC3012	2016	SG9012I	2023	SIB01-01	1104	SI-RECT-112	1104
SDT7732	2041	SE3038	2041	SEN 205	1114	SFC3020	2016	SG-9150	1122	SIB01-01V	1104	SI-RECT-112/5B-3	1114
SDT7733	2041	SE3100	2009	SEN 210	1114	SFD037A	1123	SG9150	1122	SIB01-01W	1104	SI-RECT-122	1104
SDT9001	2017	SE3646	2016	SEN 220	1114	SFD12	1123	SGB-9742	2016	SIB-01-02	1104	SI-RECT-126	1104
SDT9002	2017	SE3819	2035	SEN 230	1114	SFD43	1122	SGC-7202	2009	SIB01-02	1102	SI-RECT-140	561
SDT9003	2017	SE-4001	2009	SEN 240	1114	SFD46	1122	SGC7202	2030	SIB01-06	1104	SI-RECT-140/TR-6	561
SDT9005	2017	SE4001	1617	SEN 250	1114	SFD48	1122	SGR100	1104	SIB01-06B	1104	SI-RECT-140/TR65	561
SDT9006	2017	SE4002	2009	SEN 260	1114	SFD79	1122	SGS87231	2016	SIB-01-022	1104	SI-RECT-144	1104
SDT9007	2017	SE-4010	1617	SEN 280	1114	SFD83	1122	SH-1	1104	SIB01-022	1104	SI-RECT-152	1122
SDT9008	2017	SE4010	2009	SEN 305	1114	SFD103	1123	SH1	1104	SIB01-2	1104	SI-RECT-154	1104
SDT9009	2020	SE-4020	2030	SEN 310	1114	SFD104	1123	SH-1A	1104	SIB02-03C	1104	SI-RECT-155	1104
SDT9201	2041	SE4020	2016	SEN 320	1114	SFD107	1123	SH1A	1104	SIB02-03CR	1104	SI-RECT-156	1104
SDT9205	2041	SE4020/6-04	2016	SEN 330	1114	SFD111	1123	SH1B	1114	SIB02-CR	1104	SI-RECT-168	565
SDT9206	2041	SE4021	2016	SEN 340	1114	SFD112	1123	SH1C	1114	SIB02-CR1	1122	SI-RECT-178	1101
SDT9210	2041	SE4022	2016	SEN 350	1114	SFD164	1122	SH-1DE	1104	SIB03-08	1114	SI-RECT-178B	1101
SDT9261	2041	SE4172	1617	SEN 360	1114	SFD180	1122	SH1DE	1104	SIB03-10	1114	SI-RECT-204	1114
SDT9301	2041	SE-5001	2016	SEN 380	1114	SFD181	1122	SH-15	1104	SIB020-1B	1171	SI-RECT-208	1114
SDT9302	2041	SE5001	2016	SEN 1100	1114	SFD182	1122	SH15	1143	SIB0101	1104	SI-RECT-218	1104
SDT9303	2041	SE5002	2016	SEN 2100	1114	SFE145	2035	SH-1Z	1104	SIB0102	1104	SI-RECT-220	1104
SDT9304	2041	SE5003	2016	SEN 3100	1114	SFIR3B41	1067	SH4D05	1104	SIB-0306	1114	SI-RECT-222	1104
SDT9306	2041	SE5004	2016	SEN2A1	1171	SFIR3D41	1067	SH4D1	1104	SIB0306	1114	SI-RECT-226	1104
SDT9307	2041	SE5006	1617	SEN2A4	1173	SFOR1A41	1067	SH4D2	1104	SIB0L-02	1104	SI-RECT-228	563
SDT9308	2041	SE5006	2016	SE5632	2041	SFOR1B41	1067	SH4D3	1104	SIB1	1104	SI-RECT-230	563
SDT9309	2041	SE5010	2016	SE5881	2041	SFOR2B41	1067	SH4D4	1104	SIB50B794-1	1171	SIRM-2C	1114
SD-W005M	1173	SE5015	2016	SE53819	2035	SFOR2D41	1067	SH4D6	1104	SID01-02	1104	SIR-RECT-44	1104
SD-Y	1104	SE5020	2016	SE55001	1114	SFOR2G41	1020	SH4D8	1114	SID01E	1104	SIS2	1123
SE0001	2009	SE5021	2016	SFOR1A41	1067	SFR135	1104	SH15	1104	SID01K	1114	SIS11	1123
SE002(1)	2016	SE5022	2016	SF1A11	1067	SFR151	1104	SH200	1101	SID01L	1104	SISD-1HF	1114
SE-05	1104	SE-5023	2016	SF1A11A	1067	SFR152	1104	SH200A	1101	SID02E	1104	SISD-1X	1104
SE05	1104	SE5023	2016	SF1B11	1067	SFR153	1104	SH202	1122	SID02K	1114	SISD-K	1104
SE-05-01	1104	SE-5024	2016	SF1B11A	1067	SFR154	1104	SH202A	1122	SID02L	1104	SISM-150-0T	1104
SE-05-02	1104	SE5024	2016	SF1CN1	1114	SFR155	1104	SH212	1122	SID3B-3	1101	SISW-05-02	1104
SE-05-A	1104	SE-5025	2016	SFD111	1067	SFR156	1104	SH212A	1122	SID50B851	1122	SISW-0502	1104
SE-05-B	1104	SE5025	2058	SFD111A	1067	SFR164	1104	SH222	1122	SID51C052-19	1114	SITVR-06G	1104
SE-05-C	1114	SE5029	2016	SF1R3B41	1067	SFR251	1104	SH222A	1122	SID51C169	1104	SITVR-066	1104
SE-05-D	1114	SE5030	2016	SF1R3D41	1067	SFR252	1104	SH242	1122	SID50894	1122	SJ051E	1104
SE-05A	1104	SE5030A	1617	SF2B41	1067	SFR253	1104	SH242A	1122	SIF4	1104	SJ051F	1104
SE05A	1144	SE5030B	1617	SF2D41	1067	SFR254	1104	SH252	1122	SIF14A-P	1104	SJ052E	1104
SE05B	1104	SE5031	2016	SF2G41	1020	SFR255	1104	SH252A	1122	SIG1/100	1143	SJ052F	1104
SE-05C	1114	SE5032	2016	SF2K212XXX3XX	2062	SFR256	1104	SH300	1122	SIG1/200	1143	SJ053F	1141
SE05C	1114	SE5035	2016	SF3CN1	1114	SFR258	1114	SH300A	1122	SIG1/400	1104	SJ60F	1104
SE05D	1104	SE5036	2016	SF3D41	1067	SFR264	1104	SH301	1122	SIG1/600	1104	SJ101F	1104
SE05S	1104	SE5040	2016	SF3G14	1020	SFR266	1104	SH301A	1122	SIL	1114	SJ102F	1104
SE05SS	1104	SE5050	2016	SF4	1114	SFR260	1114	SH302	1122	SIL200	1104	SJ103F	1143

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SJ201F	1104	SK3017A	1104	SK3274	2027	SK3784	562	SK9432/319P	2009	SLA11C	1104	SLA606	1104
SJ202F	1104	SK3017B	1104	SK3274/153	2027	SK3784/5018	562	SK9433	2009	SLA-12	1104	SLA606A	1104
SJ203F	1143	SK3020	1617	SK3293	2016	SK3784/5018A	562	SK9434	2023	SLA12AB	1104	SLA1095	1104
SJ301F	1104	SK3020/123	1617	SK3293/107	2016	SK3787	563	SK9450	2020	SLA12C	1104	SLA1096	1104
SJ302F	1104	SK3024	2030	SK3297	2041	SK3787/5021	563	SK9450/241	2020	SLA-13	1102	SLA1100	1104
SJ401F	1104	SK3024/128	2030	SK3297/280	2041	SK3787/5021A	563	SK-31024-3	2016	SLA13AB	1104	SLA1101	1104
SJ402F	1104	SK3027	2041	SK3311	1102	SK3790	564	SK31024-3	2016	SLA13C	1104	SLA1102	1104
SJ403F	1144	SK3027/130	2041	SK3312	1103	SK3790/5024	564	SK707380	1000	SLA-14	1103	SLA1103	1144
SJ501F	1104	SK3030	1104	SK3313	1104	SK3790/5024A	564	SKA0030	2009	SLA14AB	1104	SLA1104	1104
SJ570	1617	SK3031	1104	SK3313/116	1104	SK3834/132	2035	SKA1080	1617	SLA14C	1104	SLA1105	1104
SJ601F	1104	SK3031A	1103	SK3315	1101	SK3852/1232	703	SKA1117	1617	SLA-15	1103	SLA1487	1104
SJ619	2041	SK3032	1114	SK3315/507	1101	SK3854/123AP	2009	SKA1279	2023	SLA15AB	1104	SLA1488	1104
SJ619-1	2041	SK3032A	1114	SK3333	565	SK3893/152	2020	SKA1395	1617	SLA15C	1104	SLA1489	1104
SJ820	2041	SK3033	1114	SK3333/5069A	565	SK3896/261	2068	SKA1416	2016	SLA-16	1104	SLA1490	1104
SJ821	2043	SK3033A	1114	SK3359	2043	SK3911	2030	SKA-4061	2023	SLA16AB	1104	SLA1491	1104
SJ1003F	1114	SK3038	2030	SK3359/281	2043	SK3912	2023	SKA-4074	2016	SLA16C	1104	SLA1492	1104
SJ1106	2041	SK3440	2020	SK3440	2020	SK3938/5633	1000	SKA4074	2016	SLA-17	1104	SLA1692	1104
SJ1152	2027	SK3046	2009	SK3440/291	2020	SK3950/5400	1067	SKA-4075	2016	SLA17AB	1104	SLA1693	1104
SJ1171	2027	SK3047	2030	SK3444	1617	SK3951/5405	1020	SKA4075	2016	SLA17C	1104	SLA1694	1104
SJ1284	2027	SK3047A	2030	SK3444/123A	1617	SK3953/5412	1067	SKA-4076	2058	SLA-18	1114	SLA1695	1104
SJ1470	2041	SK3051	1114	SK3452	2016	SK3954/5414	1067	SKA4076	2016	SLA18AB	1114	SLA1696	1104
SJ1925	2035	SK3051/156	1114	SK3452/108	2016	SK3955/5415	1020	SKA4129	2023	SLA18C	1114	SLA1697	1104
SJ2000	2041	SK3054	2020	SK3465	038	SK4001	2401	SKA4141	1617	SLA-19	1114	SLA2610	1104
SJ2001	2043	SK3054/196	2020	SK3465/778	038	SK4001B	2401	SKA4525	2016	SLA19AB	1114	SLA2611	1104
SJ2008	2041	SK3056	565	SK3465/778A	038	SK4011	2411	SKA-4590	2058	SLA19C	1114	SLA2612	1104
SJ2032	2030	SK3056/135A	565	SK3466	2023	SK4011B	2411	SKA4616	2030	SLA-21	1114	SLA2613	1104
SJ3604	2041	SK3058	561	SK3466/159	2023	SK4013	2413	SKA4768	2016	SLA21A	1141	SLA2614	1104
SJ3629	2009	SK3058/137A	561	SK3506	1000	SK4013B	2413	SKA-4802	2016	SLA21B	1141	SLA2615	1104
SJ3678	2041	SK3060	562	SK3506/5642	1000	SK4017	2417	SKA-5248	2016	SLA21C	1141	SLA2616	1114
SJ5525	2055	SK3060/139A	562	SK3510	2041	SK4017B	2417	SKA5248	2016	SLA-22	1114	SLA2617	1114
SJ5526	2055	SK3062	563	SK3534	2020	SK4049	2449	SKA-5541	2016	SLA22A	1143	SLA3193	1104
SJ6351	2055	SK3062/142A	563	SK3552	007	SK4049UB	2449	SKA-5886	2016	SLA22B	1143	SLA3194	1104
SJ8701	2041	SK3063	564	SK3552/941M	007	SK4066	2466	SKA5886	2016	SLA22C	1143	SLA3195	1104
SJ9110	2041	SK3063/145A	564	SK3564	1723	SK4066B	2466	SKA6250	2023	SLA-23	1114	SLA3196	1114
SJE42	2020	SK3080	1114	SK3564/955M	1723	SK5010/117A	1114	SKA-6256	2009	SLA23B	1143	SLA5197	1141
SJE513	2020	SK3081	1114	SK3569	1712	SK5010A/117A	1114	SKA-6437	2009	SLA23C	1143	SLA5198	1143
SJE514	2027	SK3081/125	1114	SK3569/834	1712	SK5188/75188	2520	SKA6556	1617	SLA-24	1114	SLA5199	1143
SJE515	2020	SK3087	1123	SK3577/5408	1067	SK5189/75189	2521	SKA-8105	2009	SLA24A	1144	SLA5200	1144
SJE677	2027	SK3088	1123	SK3578/5409	1020	SK5550/5650	1000	SKA9013	2016	SLA24B	1144	SLA01	1114
SJE678	2020	SK3090	1123	SK3583	1000	SK5551/5651	1000	SKA9096	2016	SLA24C	1144	SLP-235B	037
SJE694	2020	SK3090/109	1123	SK3583/5641	1000	SK5552/5652	1000	SKB8339	1617	SLA-25	1114	SLP-235B(GR)	037
SJE695	2027	SK3091	1123	SK3591	1770	SK5797	2023	SKMV130J/2V130	570	SLA25A	1144	SLP-236B	021
SJE783	2020	SK3092	563	SK3591/960	1770	SK5798	2023	SKMV130K/524V13	568	SLA25B	1144	SLP-236B(G)	022
SJE-5038	2017	SK3092/141A	563	SK3592	1771	SK5801	1617	SKS1/01	1114	SLA25C	1144	SLP-236B(GR)	022
SJE8621	2027	SK3100	1122	SK3592/966	1771	SK5915	1617	SKS1/04	1114	SLA-26	1114	SLP-236B(GREEN)	022
SJE8635	2020	SK3100/519	1122	SK3593	1772	SK6345	2023	SKS1/08	1114	SLA-27	1114	SLP-236B(Y)	021
SK04	1114	SK3106	1173	SK3593/968	1772	SK6346	2023	SL-30	1104	SLA-28	1114	SLP-236B(YEL)	021
SK08	1114	SK3106/530A	1173	SK3597	1067	SK6347	2023	SL0305	1104	SLA-29	1114	SLP-236B(YELLOW)	021
SK1-K2	1102	SK3110	1101	SK3597/5455	1067	SK6347A	2023	SL-030T	1104	SLA-50-LCD	1171	SLP-236P(GR)	022
SK1K-2	1104	SK3110/120	1101	SK3598	1020	SK6601/5601	1000	SL030T	1104	SLA-100-LCD	1171	SLP-888A	088
SK4A7/5009A	565	SK3111/277	2055	SK3598/5457	1020	SK6708/5608	1000	SL0305,T	1104	SLA-400-LCD	1173	SM07275	2009
SK4V7/5069A	565	SK3112	2035	SK3620	2020	SK6740/5640	1000	SL-2	1104	SLA440	1104	SM07286	2009
SK5A1/5010A	565	SK3114	2023	SK3627	1067	SK6752/5452	1067	SL2	1104	SLA440B	1104	SM-1	1104
SK5V1/135A	565	SK3114/290	2023	SK3627/5404	1067	SK6753/5453	1067	SL-3	1104	SLA441	1104	SM-1-005	1104
SK6A2/5013A	561	SK3114A/290A	2023	SK3638	1067	SK6754/5454	1067	SL-5	1143	SLA441B	1104	SM-1-02	1104
SK6V0/5070A	561	SK3115	2055	SK3638/5402	1067	SK7400	1801	SL5	1104	SLA442	1104	SM1-02	1104
SK6V2/137A	561	SK3115/165	2055	SK3643	1711	SK7401	1801	SL91	1104	SLA442B	1104	SM-1-02FR	1104
SK8A7/5017A	562	SK3117	2016	SK3643/987	1711	SK7404	1802	SL92	1104	SLA443	1104	SM-1-02FRA	1104
SK8V7/5073A	562	SK3118	2023	SK3648/168	1173	SK7408	1822	SL93	1104	SLA443B	1104	SM-1-04	1104
SK9A1/5018A	562	SK3120	1101	SK3664	1000	SK7447	1805	SL100	2016	SLA444	1104	SM-1-04FR	1104
SK9V1/139A	562	SK3120/114	1101	SK3664/5602	1000	SK7490	1808	SL-103	1143	SLA444A	1104	SM-1-04FRA	1104
SK11V5/141A	563	SK3121	1101	SK3665/5603	1000	SK7641/858M	1715	SL103	1104	SLA444B	1104	SM-1-06FRA	1104
SK12A/5021A	563	SK3121/115	1101	SK3666/5605	1000	SK8251	1617	SL119	2023	SLA445	1104	SM-1-08	1114
SK12V/142A	563	SK3122	2009	SK3679	1185	SK8937	2058	SL300	1617	SLA445B	1104	SM-1-08FR	1114
SK15A/5024A	564	SK3124	2009	SK3683/5511	1067	SK9000/552	1104	SL301C	2030	SLA536	1104	SM-1-08FRA	1114
SK15V/145A	564	SK3124/289	2009	SK3684/5512	1020	SK9001/113A	1104 N1	SL301CE	2030	SLA537	1104	SM-1-10FR	1114
SK19	2035	SK3124A/289A	2009	SK3689/978	1728	SK9002	1104 N2	SL403	2009	SLA538	1104	SM-1-10FRA	1114
SK52	570	SK3133	2055	SK3709	1123	SK9003/5800	1141	SL608	1114	SLA539	1104	SM-1-47	1104
SK52/2V130	570	SK3133/164	2055	SK3709/110MP	1123	SK9004/5801	1143	SL610	1114	SLA540	1104	SM-1A-01	1104
SK53	568	SK3165/923D	1740	SK3710	2055	SK9005/5802	1143	SL708	1114	SLA547	1104	SM-1A-01Z	1104
SK53/524V13	568	SK3173	2043	SK3710/238	2055	SK9006/5803	1144	SL710	1114	SLA560	1114	SM-1A-02	1104
SK107-4	2035	SK3173/219	2043	SK3716	2016	SK9007/5804	1144	SL-833	1104	SLA561	1114	SM-1A-02FR	1104
SK119	1122	SK3174	1104	SK3716/161	2016	SK9021/5070A	561	SL833	1104	SLA591LT3	066A	SM-1A-02FRA	1104
SK-218	1104	SK3175/177	1122	SK3749	562	SK9075/166	1171	SL-833A	1104	SLA599	1104	SM-1A-02Z	1102
SK218	1104	SK3192	2017	SK3749/5073A	562	SK9089/832	1721	SL833A	1104	SLA599A	1104	SM-1A-04	1104
SK1320	2016	SK3192/186	2017	SK3775	565	SK9091/1177	1122	SL918	2016	SLA600	1104	SM-1A-04FR	1104
SK1639	2023	SK3231	705	SK3775/5009	565	SK9112/377	2020	SL3693	2016	SLA600A	1104	SM-1A-04FRA	1104
SK1640	2023	SK3231/1155	705	SK3775/5009A	565	SK9157/312	2035	SL14971	1822	SLA601	1104	SM-1A-04Z	1103
SK1641	1617	SK3245	2016	SK3776	565	SK9161/457	2062	SL16793	1801	SLA601A	1104	SM-1A-06	1104
SK2007/3007	026	SK3245/199	2016	SK3776/5010	565	SK9164/451	2062	SL16794	1801	SLA602	1104	SM-1A-06FR	1104
SK2022/3022	041	SK3246	2058	SK3776/5010A	565	SK9210/823	1731	SL16796	1802	SLA602A	1104	SM-1A-06FRA	1104
SK2026/3026	025	SK3246/229	2058	SK3779	561	SK9215/956	1778	SL16798	1822	SLA603	1104	SM-1A-06Z	1104
SK2056/3056	075	SK3246A/22											

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SM-1XH06	1104	SM514	1104	SN7447N-10	1805	SP3058	561	SPS-1351	2016	SPS3971	2016	SPS4199	2009
SM-1XM02	1104	SM515	1104	SN7490A	1808	SP3060	562	SPS1351	2016	SPS3972	2009	SPS4236	2009
SM-1XM04	1104	SM516	1104	SN7490AJ	1808	SP3062	563	SPS-1352	2016	SPS3973	2009	SPS4300	2030
SM-1XM06	1104	SM517	1114	SN7490AN	1808	SP3063	564	SPS1352	2016	SPS3987	2023	SPS4302	2023
SM-1XN02	1104	SM518	1114	SN7490N	1808	SP3080	1114	SPS-1353	2016	SPS3988	2023	SPS4303	2009
SM-1XN04	1104	SM520	1114	SN7490N-10	1808	SP3081	1114	SPS1353	2016	SPS3990	2023	SPS4309	2030
SM-1XN06	1104	SM576-1	1617	SN52723N	1740	SP3087	1123	SPS1359	2023	SPS3999	2009	SPS4311	2030
SM-1.5-08	1114	SM576-2	1617	SN72555JP	1723	SP3088	1123	SPS1436	2020	SPS4000	2023	SPS4313	2009
SM-1.5-08FR	1114	SM645	1104	SN72555SP	1723	SP3090	1123	SPS1437	2027	SPS4002	2016	SPS4314	2023
SM-1.5-10	1114	SM646	1104	SN72723J	1740	SP3091	1123	SPS-1473	2016	SPS4003	2009	SPS4330	2023
SM-1.5-10FR	1114	SM705	1104	SN72723N	1740	SP3092	563	SPS1473	2016	SPS4004	2009	SPS4331	2058
SM-1.5-10Z1	1104	SM710	1104	SN72741P	007	SP3096(ZENER)	564	SPS-1473RT	2058	SPS4005	2016	SPS4338	2023
SM-3-08	1114	SM-716	1617	SN75188	2520	SP3105	1171	SPS-1475(YT)	2009	SPS4006	2009	SPS4343	2016
SM-3-08FR	1114	SM716	1617	SN75188J	2520	SP3106	1173	SPS-1475YT	2009	SPS4007	2023	SPS4344	2009
SM4	1104	SM720	1104	SN75188N	2520	SP3112	2035	SPS-1476	2016	SPS4008	2016	SPS4345	2009
SM5	1104	SM730	1104	SN75189	2521	SP3114	2023	SPS1523	2023	SPS4009	2009	SPS4347	2009
SM10	1104	SM740	1104	SN75189A	2521	SP3116	2035	SPS-1539	2023	SPS4013	2023	SPS4348	2023
SM11	1104	SM750	1104	SN75189AM	2521	SP3117	2016	SPS-1539(WT)	2016	SPS4014	2023	SPS4354	2023
SM20	1104	SM760	1104	SN75189N	2521	SP3120	1101	SPS-1539WT	2023	SPS4016	2016	SPS4355	2023
SM30	1104	SM770	1114	SNR-14A130K	570	SP3121	1101	SPS1593WT	2023	SPS4017	2009	SPS4356	2009
SM31	1104	SM780	1114	SNR14A130K	570	SP3122	2009	SPS1802	2009	SPS4018	2023	SPS4359	2009
SM40	1104	SM800	1114	SNR20A130K	568	SP3502	1067	SPS1817	2009	SPS4019	2023	SPS4360	2009
SM50	1104	SM1507	2023	SNR-20A150K	568	SP3510	2041	SPS1846	2058	SPS4020	2009	SPS4361	2030
SM51	1104	SM2700	1617	SNR-A130L10	570	SP3512	2030	SPS1977	2009	SPS4025	2023	SPS4363	2009
SM60	1104	SM2701	1617	SN7204	2023	SP4436	2016	SPS1978	2023	SPS4026	2023	SPS4365	2023
SM70	1114	SM3104	1617	SO10G	1114	SP8416	2020	SPS2104	2009	SPS4027	2023	SPS4367	2009
SM71	1114	SM3117A	1617	SO46	1123	SP8660	2020	SPS2110	2016	SPS4028	2023	SPS4368	2009
SM73	1114	SM3505	1617	SO501	1104	SPC40	1617	SPS2111	2016	SPS4029	2009	SPS4382	2009
SM80	1114	SM3978	2030	SO-632	562	SPC42	1617	SPS2129	2009	SPS4030	2016	SPS4390	2009
SM81	1114	SM3986	1617	SOA	1114	SPC50	1617	SPS2130	2030	SPS4031	2023	SPS4391	2030
SM83	1114	SM-4304-S	2016	SOD30AL	1141	SPC51	1617	SPS2135	2058	SPS4032	2009	SPS4392	2009
SM100	1114	SM4304-5	2058	SOD30BL	1141	SPC52	1617	SPS2142	2009	SPS4034	2009	SPS-4396	2009
SM101	1114	SM4508-B	1617	SOD30DL	1141	SPC410	2055	SPS2164	2009	SPS4037	2009	SPS4397	2023
SM103	1114	SM4547	2023	SOD50AL	1141	SPC413	2055	SPS2167	2016	SPS4038	2030	SPS4399	2016
SM105	1104	SM4719	2023	SOD50BL	1141	SPC423	2055	SPS2194	2009	SPS4039	2009	SPS-4423	2016
SM110	1104	SM5379	1617	SOD50CL	1141	SPC424	2055	SPS2216	2016	SPS4040	2009	SPS4423	2016
SM112	1104	SM5564	2009	SOD50DL	1141	SPC425	2055	SPS2217	2016	SPS4041	2009	SPS4436	2058
SM120	1104	SM5643	2009	SOD100AL	1143	SPF024	2035	SPS2224	2016	SPS4042	2009	SPS4443	2009
SM130	1104	SM5796	2016	SOD100BL	1143	SPF530	2058	SPS2225	2009	SPS4043	2016	SPS4446	2009
SM140	1104	SM6251	2030	SOD100CL	1143	SPN-01	1104	SPS-2265	2016	SPS4044	2009	SPS4450	2009
SM150	1114	SM6762	2009	SOD100DS	1143	SPN01	1104	SPS2265	2016	SPS4045	2009	SPS4451	2009
SM-150-005	1114	SM6773	2009	SOD200AL	1143	SPS0122	2030	SPS2265-2	2016	SPS4049	2009	SPS4452	2023
SM-150-01	1114	SM7545	2009	SOD200BL	1143	SPS4	2016	SPS-2266	2016	SPS4050	2016	SPS4453	2009
SM-150-02	1114	SM7815	2009	SOD200CL	1143	SPS12	2023	SPS2266	2016	SPS4051	2016	SPS4455	2009
SM-150-02	1114	SM7836	2009	SOD-200D	1114	SPS20	2016	SPS2269	2023	SPS4052	2009	SPS4456	2009
SM-150-02(CENTERING)	1101	SM7991	2030	SOD200D	1104	SPS22	2023	SPS2270	2009	SPS4053	2009	SPS4457	2009
SM-150-04	1104	SM8112	2009	SOD200DL	1143	SPS38	2016	SPS2271	2016	SPS4054	2023	SPS4458	2023
SM-150-06	1104	SM8113	2009	SP0256	1784	SPS40	2016	SPS2272	2023	SPS4055	2009	SPS4459	2009
SM-150-08	1114	SM8978	2009	SP0256-AL2	1784	SPS41	1617	SPS2274	2023	SPS4056	2023	SPS4460	2023
SM-150-10	1114	SM9008	2009	SP-1	1104	SPS42	2023	SPS2279	2023	SPS4059	2009	SPS4461	2030
SM-150-10	1114	SM9135	2009	SP1	1104	SPS43-1	2016	SPS2320	2016	SPS4060	2009	SPS4472	2009
SM-150-10	1114	SM9253	2009	SP1K-1	1104	SPS47	2023	SPS2415	2009	SPS4061	2009	SPS4473	2023
SM-150-11	1114	SMB-01	1171	SP1K-2	1104	SPS49	2030	SPS2425	2016	SPS4062	2009	SPS4476	2009
SM-150-A	1104	SMB-04	1173	SP-1.5A	1141	SPS220	2016	SPS3003	2016	SPS4063	2009	SPS4478	2009
SM-150-B	1104	SMC7400N	1801	SP2-01	1171	SPS401K	2023	SPS3015	2009	SPS4064	2023	SPS4480	2023
SM-150-C	1114	SMC7408N	1822	SP2-04	1173	SPS428	2016	SPS3329	2023	SPS4066	2009	SPS4489	2023
SM-150-D	1114	SMC7490N	1808	SP6GD1	1101	SPS429	2016	SPS3370	2016	SPS4067	2009	SPS4490	2030
SM-150A	1114	SN0303	1104	SP6GX1	1101	SPS477	2009	SPS3438	2023	SPS4068	2016	SPS4491	2009
SM150A	1114	SN-1	1104	SP10	2009	SPS514	2023	SPS3724	2023	SPS4069	2009	SPS4493	2009
SM150B	1114	SN1	1104	SP11	2016	SPS627	2023	SPS3735	2009	SPS4072	2023	SPS4494	2009
SM150C	1114	SN-1Z	1104	SP14	2041	SPS668	2023	SPS3786	2023	SPS4073	2023	SPS4495	2030
SM150D	1114	SN10	1114	SP17	1617	SPS699	2009	SPS3787	2016	SPS4074	2009	SPS4498	2009
SM150S	1114	SN166	2030	SP18	2030	SPS816	2016	SPS3900	2009	SPS4075	2009	SPS4610	2016
SM150SS	1114	SN167	2030	SP34AS	1123	SPS817	2009	SPS3907	2009	SPS4076	2023	SPS4813	2023
SM160	1104	SN2222AP	2009	SP60	1123	SPS817N	1617	SPS3908	2009	SPS4076A	2023	SPS4814	2016
SM170	1114	SN4448	1122	SP70	2023	SPS-856	2016	SPS3909	2009	SPS4077	2009	SPS4815	2023
SM180	1114	SN7400	1801	SP90	2023	SPS856	2016	SPS3912	2030	SPS4078	2023	SPS4920	2009
SM200	1114	SN7400A	1801	SP101	1122	SPS-860	2016	SPS3914	2030	SPS4079	2016	SPS5000	2009
SM205	1104	SN7400J	1801	SP295	1123	SPS860	2016	SPS3915	2009	SPS4080	2016	SPS5006	2009
SM210	1104	SN7400N	1801	SP3016	1104	SPS868	1617	SPS3923	2009	SPS4081	2009	SPS5006-1	2009
SM215A	1102	SN7400N-10	1801	SP3018	2016	SPS906	2016	SPS3924	2023	SPS4082	2023	SPS5006-2	2009
SM220	1104	SN7401	1801	SP3019	2016	SPS907	2009	SPS3925	2009	SPS4083	2009	SPS5007	2023
SM230	1104	SN7401J	1801	SP3020	1617	SPS915	2016	SPS3926	2009	SPS4084	2009	SPS5007-1	2023
SM240	1104	SN7401N	1801	SP3024	2030	SPS-917	2058	SPS3927	2023	SPS4085	2009	SPS5007-2	2023
SM250	1104	SN7404	1802	SP3027	2041	SPS917	2016	SPS3929	2016	SPS4086	2023	SPS5008	2023
SM260	1104	SN7404J	1802	SP3030	1104	SPS918	2009	SPS3930	2009	SPS4087	2023	SPS5569	2016
SM270	1114	SN7404N	1802	SP3031	1103	SPS919	2016	SPS3931	2023	SPS4088	2009	SPS5809	2030
SM280	1114	SN7404N-10	1802	SP3032	1114	SPS920	2058	SPS3936	2009	SPS4089	2009	SPS6109	2023
SM300	1114	SN7408	1822	SP3033	1114	SPS-934	2009	SPS3937	2016	SPS4090	2023	SPS6111	2009
SM483	1104	SN7408J	1822	SP3036	2043	SPS934	1617	SPS3938	2016	SPS4091	2016	SPS6112	2009
SM486	1104	SN7408N	1822	SP3038	2009	SPS-952	2009	SPS3940	2009	SPS4095	2009	SPS6113	2009
SM487	1104	SN7408N-10	1822	SP3041	2020	SPS952	2009	SPS3948	2016	SPS4143	2016	SPS6124	2030
SM488	1104	SN7447A	1805	SP3046	2009	SPS-952-2	2009	SPS3951	2009	SPS-4145	2016	SPS6155	2058
SM505	1104	SN7447AJ	1805	SP3047	2030	SPS952-2	2009	SPS3952	2009	SPS4145	2016	SPS6571	2009
SM510	1104	SN7447AN	1805	SP3051	1114	SPS1045	1617	SPS3957C	2016	SPS4167	2016	SPS6682	2016
SM512	1104	SN7447J	1805	SP3054	2020	SPS1082	2009	SPS3967	2009	SPS4168	20		

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
SPS7652	2009	SR1K-20	1114	SR200	1104	SRP100G	1104	ST-25A 562Y	2023	ST251	1617	ST62180	2023
SPT3713	2041	SR1K-Z	1104	SR200B	1104	SRP100J	1104	ST-25A 673C	2023	ST403	1617	ST83255	2023
SQ46	1123	SR1KZ	1104	SR205	1104	SRP100K	1104	ST-25A 733Q	2023	ST415	2016	STA608XFXXXXI	2023
SR-0005	1104	SR1S-1	1101	SR210	1143	SRQ02-100	1114 N3	ST-25A 844C	2023	ST501	1617	STB01-02	1122
SR-0007	1104	SR1T	1104	SR220	1143	SRQ02-200	1114 N3	ST-25A 1015Y	2023	ST502	1617	STB568	1122
SR-0008	1104	SR-1Z	1104	SR-390	1104	SRQ02-400	1114 N3	ST-25C 383W	2009	ST503	1617	STB569	1122
SR-05K-2	1104	SR1Z	1104	SR390	1104	SR5105	1101	ST-25C 454C	2009	ST504	1617	STB576	1122
SR05K-2	1104	SR-2	1104	SR401	1104	SS0007	1123	ST-25C 458C	2009	ST722	2030	STB598XEXXXXX	2023
SR05K-4	1104	SR2A-1	1104	SR405	1104	SS0008	1123	ST-25C 460	2009	ST723	2030	ST-BU208	2055
SR05K-8	1104	SR2A1	1104	SR475	1141	SS0009	1104	ST-25C 535	2016	ST903	2016	STC536XFXXB	2009
SR05K-12	1104	SR2A-2	1104	SR499	1114	SS00010	1104	ST-25C 535B	2016	ST904	2016	STC930XEXXXRI	2016
SR-1	1104	SR2A2	1104	SR500	1104	SS-1	1104	ST-25C 1070	2016	ST904A	2016	STC1035	2041
SR1-2	1104	SR2A-4	1104	SR500B	1104	SS-2N5062	1067	ST-25C 1213C	2009	ST905	2016	STC1035A	2041
SR1A-1	1104	SR2A4	1104	SR507	1143	SS29A4	2023	ST-25C 1213D	2009	ST910	2016	STC1036	2041
SR1A1	1104	SR2A-8	1114	SR605	1104	SS29A5	2023	ST-25C 1213D-24	2009	ST1026	2016	STC1036A	2041
SR1A-2	1104	SR2A8	1104	SR806-126	1104	SS321	1102	ST-25C 1317Q	2009	ST1042	2009	STC1080	2041
SR1A2	1104	SR2A-12	1114	SR846-2	1104	SS322	1102	ST-25C 1730	2016	ST1042C	2009	STC1081	2041
SR1A-4	1104	SR2A12	1104	SR851	1104	SS324	1102	ST-25C 1855	2058	ST1050	2016	STC1082	2041
SR1A4	1104	SR2B12	1114	SR851-121	1104	SS325	1101	ST-25C 1906	2016	ST1051	2016	STC1083	2041
SR1A-8	1104	SR2B16	1114	SR889	1104	SS334	1102	ST-25C 1923-O	2058	ST1242	1617	STC1084	2041
SR1A8	1104	SR2B20	1114	SR1024	1104	SS337	1102	ST-25D 235Y	2020	ST1243	1617	STC-1085	2041
SR1A12	1104	SR2K	1104	SR1104	1104	SS455	1104	ST-25D 467B	2009	ST1244	1617	STC1300	2020
SR1B	1171	SR-2T	1104	SR1266	1104	SS1202	1303	ST-25D 467C	2009	ST1290	1617	STC1674LXXXXX	2016
SR1C-2	1102	SR-3	1104	SR1378-2	1144	SS1606	2023	ST9	2016	ST1336	2016	STC1800	2017
SR1C-4	1103	SR3	1104	SR1422	1141	SS1906	2023	ST10	2016	ST1402C	1617	STC1850	2020
SR1C-6	1103	SR3AM	1114	SR1493	1104	SS2308	1617	ST11	2016	ST1402D	2009	STC1860	2020
SR1C-8	1104	SR3AM1	1141	SR1549	1104	SS2503	2023	ST12	2016	ST1402E	2009	STC1862	2017
SR1C-12	1104	SR3AM2	1114	SR1598	1141	SS2504	1617	ST13	2016	ST1502B	2016	STC4252	2041
SR1C-16	1114	SR3AM-3	1143	SR1643A	1141	SS3534-4	2035	ST14	2016	ST1502C	2016	STC4253	2041
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SR1D-1	1104	SR3AM6	1144	SR1668	1104	SS3638	2023	ST16	1104	ST1502D	2016	STC4255	2041
SR1D1M	1104	SR3AM8	1144	SR1692	1104	SS3638A	2023	ST18	1114	ST-1502L	2009	STC5202	2027
SR1D-2	1104	SR3BM-6	1104	SR1693	1104	SS3672	2035	ST25A	1617	ST1502L	2009	STC5203	2027
SR1D-4	1104	SR-4	1104	SR1694	1104	SS3694	1617	ST25B	1617	ST1506	1617	STC5205	2027
SR1D-6	1104	SR4	1104	SR1695	1104	SS-3704	2035	ST25C	1617	ST1543	2009	STC5206	2027
SR1D-8	1104	SR-5	1104	SR1731-1	1104	SS3704	2035	ST29	2016	ST1602D	2023	STC5303	2027
SR1DM	1104	SR5	1104	SR1731-2	1104	SS3735	2035	ST30	2016	ST1607	1617	STC5802	2027
SR1DM-1	1104	SR-9	1104	SR1731-3	1104	SS4001AE	2401	ST31	2016	ST1694	1617	STC5803	2027
SR1DM1	1104	SR10	1101	SR1731-4	1104	SS4011AE	2411	ST32	2016	ST1700	2009	STC5805	2027
SR1DM-2	1141	SR-13	1122	SR1731-5	1104	SS4013AE	2413	ST33	2016	ST1702L	2009	STC5806	2027
SR1DM-4	1104	SR13H	1104	SR1742	1104	SS4042	2016	ST34	2016	ST1702M	2009	STD330XEXXXXX	2020
SR1DM-6	1104	SR-14	1104	SR1762	1143	SS6724	2023	ST35	2016	ST1702N	2009	STD734XFXXXXX	2009
SR1DM-8	1104	SR14	1101	SR1766	1104	SS9328	2009	ST40	2016	ST2040P	1104	ST99007	2017
SR1DM-10	1104	SR15	1101	SR-1849-1	1104	SSA43	2023	ST41	2016	ST2110	2016	STE400	2016
SR1DMX	1104	SR17	1104	SR1984	1104	SSA43A	2023	ST42	2016	ST2120	2016	STE401	1617
SR1E	1104	SR-18	1104	SR2121	1104	SSA46	2023	ST43	2016	ST2130	2016	STFCN10	1104
SR1EM	1104	SR-20	1122	SR2301	1104	SSA46A	2023	ST44	2016	ST3030	1617	ST-HIT9012H	2023
SR1EM-1	1104	SR22	1104	SR2301A	1104	SSA48	2023	ST45	2016	ST3031	1617	STHIT9012H	2023
SR1EM1	1104	SR23	1104	SR3010	1104	SSD708	1122	ST50	1617	ST4150	2030	ST-HIT9013H	2009
SR1EM-2	1104	SR24	1104	SR3582	1104	SSD974	1104	ST51	1617	ST4201	2030	STHIT9013H	2009
SR1EM2	1104	SR-27	1104	SR3943	1104	SSH1A020	1101	ST53	1617	ST4202	2030	ST-HIT9014C	2009
SR1EM-4	1114	SR27	1104	SR6134	1104	SSH1A040	1101	ST54	1617	ST4203	2030	STHIT9014C	2009
SR1EM-6	1104	SR-28	1104	SR6324	1104	SSH1A060	1104	ST55	1617	ST4204	2030	ST-HIT9016G	2058
SR1EM-8	1104	SR28	1104	SR6325	1104	SSH1A080	1104	ST56	1617	ST4341	2030	STI701	2055
SR1EM-10	1104	SR-30	1101	SR6385	1104	SSH3A020	1114	ST57	1617	ST5060	1617	ST-JE9014C	2009
SR1EM-12	1104	SR30	1104	SR6415	1104	SSH3A030	1114	ST58	1617	ST5641	2016	ST-LM2152	2009
SR1EM-16	1114	SR35	1104	SR6560	1104	SSH3A040	1114	ST59	1617	ST6110	1617	ST-LM2682	2009
SR1EM-20	1114	SR-37	1101	SR6567	1104	SSH3A050	1114	ST60	2016	ST6120	2016	ST-MPS9410AJ	2030
SR1FM	1104	SR37	1101	SR6617	1104	SSH3A060	1114	ST61	2016	ST6125	2016	ST-MPS9410AK	2030
SR1FM-1	1104	SR40	1104	SR9003	1104	SSI202	1303	ST62	2016	ST6130	2009	ST-MPS9433J	2009
SR1FM2	1104	SR50	1104	SR-9005	1101	SSI1120	1144	ST63	1617	ST6510	2016	ST-MPS9433S	2009
SR1FM-4	1104	SR60	1104	SR9005	1104	SSIB0140	1114	ST64	1617	ST6511	1617	ST-MPS9433T	2009
SR1FM4	1104	SR-76	1104	SR20226	2058	SSIB0180	1114	ST70	2016	ST6512	1617	ST-MPS9632J	2009
SR1FM6	1104	SR76	1104	SR20234	2009	SSIB0640	1114	ST71	2016	ST6573	2030	ST-MPS9633C	2009
SR1FM-8	1104	SR-100	1143	SR50411-1	1104	SSIB0680	1114	ST72	2016	ST6574	2030	ST-MPS9682J	2023
SR1FM8	1144	SR100	1104	SR63197	2023	SSIC0810	1143	ST80	2016	ST6593	1617	ST-MPS9700D	2009
SR1FM-12	1114	SR101-1	1104	SR75844	1617	SSIC0820	1144	ST82	2016	ST6594	1617	ST-MPS9700E	2009
SR1FM12	1104	SR101-2	1104	SRIDM	1104	SSIC0840	1114	ST150	1617	ST6600	1617	ST-MPS9700F	2009
SR1FM-16	1114	SR112	1104	SRIDM-1	1104	SSIC0880	1114	ST151	1617	ST6601	2030	ST-MPS9700G	2009
SR1FM16	1114	SR-114	1143	SRIDM-4	1104	SSIC1110	1143	ST152	1617	ST7100	2016	ST-MPS9750D	2023
SR1FM-20	1114	SR114	1104	SRIEM-1	1104	SSIC1160	1114	ST153	1617	ST8014	2023	ST-MPS9750F	2023
SR1FM20	1114	SR-120	1104	SRIEM-2	1104	SSIC1210	1143	ST154	1617	ST8033	2023	ST-MPS9750G	2023
SR-1HM-2	1104	SR120	1104	SRIEM-4	1104	SSIC1220	1144	ST155	1617	ST8034	2023	ST-MPSH10	2058
SR1K	1104	SR-130-1	1104	SR-1K-2	1104	SSIC1240	1114	ST156	1617	ST8035	2023	ST-MPSH24	2016
SR1K-0	1104	SR130-1	2016	SRIK-2	1104	SSIC1280	1114	ST157	1617	ST8036	2023	STR101[ELCOM]	1000
SR1K-1	1104	SR131-1	1104	SRIK-8	1104	SSIC1740	1114	ST160	1617	ST8065	2023	STR103[ELCOM]	1000
SR1K1	1104	SR-132-1	1104	SRK1	1104	SSIC1780	1114	ST161	1617	ST8181	2023	STR201[ELCOM]	1000
SR1K-1K	1104	SR132-1	1141	SRK-2	1104	SSIC1960A	1114	ST162	1617	ST8182	2023	STR202[ELCOM]	1000
SR1K-2	1104	SR135-1	1104	SRN02-100	1114 N1	ST/217/Q	1617	ST163	1617	ST8190	2023	STR203[ELCOM]	1000
SR1K2	1104	SR-136	1104	SRN02-200	1114 N1	ST01	1617	ST175	1617	ST8500	2023	STR403[ELCOM]	1000
SR-1K-2A	1114	SR136	1141	SRN02-400	1114 N1	ST02	1617	ST176	1617	ST8509	2023	STT4451	2017
SR1K-4	1104	SR144	1104	SRP02-100	1114 N2	ST03	1617	ST177	1617	ST8700	2023	STV-3	1104
SR1K4	1104	SR145	1104	SRP02-200	1114 N2	ST04	1617	ST178	1617	ST8704	2023	STX0014	2041
SR1K-8	1104	SR150	1114	SRP02-400	1114 N2	ST05	1617	ST180	1617	ST8705	2023	STX0027	2041
SR1K8	1104	SR-150-1	1104	SRP100A	1104	ST06	1617	ST181	1617	ST8709	2023	STX0029	2027
SR1K-12	1104	SR151	1104	SRP100B	1104	ST07430	2016	ST182	1617	ST27020	2027	STX0030	2027
SR1K-16	1114	SR152	1104	SRP100D	1104	ST2B	1104 N6	ST250	1617	ST47025	2016	STX0032	2041

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
SU2076	2035	SW0555	1104	SZ-BZ-120	563	T1595	2009	T106D15G	1000	T472(SEARS)	2009	T2300PB	1000
SU2077	2035	SW05V	1104	SZC9	562	T1597	2009	T106D15H	1000	T475(SEARS)	2023	T2300PC	1000
SU2080	2035	SW0501	1104	SZ-EQB01-12A	563	T1598	2016	T106D15S	1000	T482(SEARS)	2023	T2300PD	1000
SU2081	2035	SW1	1114	SZ-HZ9B3	562	T15D51K	1104	T106D25C	1000	T483(SEARS)	2009	T2300PF	1000
SUC650	561	SW-1-01	1114	SZP-9	562	T1X-M14	2016	T106D25D	1000	T484(SEARS)	2009	T2301A	1000
SUM6010	561	SW-1-02	1114	SZ-RD6.2E	561	T1X-M15	2016	T106D25G	1000	T485(SEARS)	2009	T2301B	1000
SUM6011	561	SW-1-03	1104	SZ-RD6.2EB	561	T1XM15	2016	T106D25H	1000	T-486	2016	T2301D	1000
SUM6020	561	SW-1-04	1104	SZ-RD6.2EB3	561	T1X-M16	2016	T106D25S	1000	T486(SEARS)	2009	T2301F	1000
SUM6021	561	SW-1-06	1104	SZ-RD9.1FB	562	T1XM17	2016	T106F1	1067	T500	1104	T2301PA	1000
SV-01A	1104	SW-1-08	1114	SZ-RD12EB	563	T2R	038	T106F15C	1000	T550	1104	T2301PB	1000
SV01A	1104	SW-1-10	1114	SZ-RD12FB	563	T2SA495-O	2023	T106F15D	1000	T576-1	2016	T2301PB5	1000
SV-01B	1104	SW-1A	1104	SZT8	563	T2SA562-O	2023	T106F15G	1000	T597-1	2023	T2301PD	1000
SV02	1104	SW1C	1114	SZT9	562	T25C388A	2009	T106F15H	1000	T600	1104	T2301PD5	1000
SV02A	1104	SW1D	1114	SZ-UZ6.2B	561	T25C18945	2055	T106F15S	1000	T611-1	2020	T2302A	1000
SV-05	1104	SW-5-005	1104	SZ-UZ-6.2B	561	T25C2120Y	2009	T106F25C	1000	T612-1	2020	T2302B	1000
SV05	1104	SW4001	2401	SZ-UZ-12B	563	T3/2	1104	T106F25D	1000	T650	1104	T2302C	1000
SV-1	1104	SW4011	2411	SZ-UZP-12B	563	T3B	007	T106F25G	1000	T-700-709	1123	T2302D	1000
SV-1R	1104	SW4013	2413	SZ-WZ-063	561	T3G	1123	T106F25H	1000	T700-709	1123	T2302F	1000
SV-2	1102	SW4017	2417	SZ-WZ-063(.WZ-063)	T7	1123	T106F25S	1000	T-750-713	1123	T2302PA	1000	
SV-3	1103	SW4049	2449		561	T8/2	1104	T106Q1	1067	T-750-714	562	T2302PA5	1000
SV-4R	1104	SWC	1114	SZ-WZ-120	563	T8G	1123	T106Y1	1067	T800	1114	T2302PB	1000
SV-6R	1104	SWD	1114	SZ-YZ063	561	T9	1123	T107A1	1067	T800X	1114	T2302PB5	1000
SV-8R	1114	SWO.5A	1104	SZ-YZ-063	561	T9G	1123	T107B1	1067	T-1000	1114	T2302PD	1000
SV-9	562	SWT1032	2023	T01-044	2035	T11	1123	T107C1	1020	T-1000X	1114	T2302PD5	1000
SV14B	1122	SWT1042	2009	T01-101	1617	T12	1123	T107D1	1020	T1000X	1114	T2303F	1000
SV14C	1122	SX-1.5-01	1143	T01-104	1617	T12G	1123	T107F1	1067	T1003-521	2016	T2304B	1000
SV30	1123	SX-1.5-02	1143	T01-105	1617	T13	1123	T107Q1	1067	T1007(ZENITH)	2016	T2305B	1000
SV-31	1123	SX-1.5-04	1144	T-065	1104	T13G	1123	T107Y1	1067	T1008-834	2009	T2305D	1000
SV-31(DIODE)	1123	SX55	2009	T065	1104	T14	1123	T-112	2023	T1010BH	1000	T2306A	1000
SV121	565	SX-58Y	2035	T-075	1104	T14G	1123	T143	1617	T1010BJ	1000	T2306B	1000
SV122	565	SX61M	2023	T075	1104	T16	1122	T151	1122	T1012BH	1000	T2306D	1000
SV135	563	SX623	1104	T-0150	1104	T16X19	1123	T152	1122	T1012BJ	1000	T2310A	1000
SV138	564	SX631	1104	T0150	1104	T17	1123	T153	1122	T1013BH	1000	T2310B	1000
SV1017	563	SX633	1104	T0505BH	1000	T18	1123	T154	1122	T1013BJ	1000	T2310D	1000
SV1020	564	SX641	1102	T0505DH	1000	T19	1123	T155	1122	T1085	1104	T2312A	1000
SV4012	563	SX642	1104	T0509BH	1000	T19G	1123	T156	1102	T1106	2016	T2312B	1000
SV4012A	563	SX643	1102	T0509DH	1000	T20	1123	T157	1617	T1202(GE)	2016	T2312D	1000
SV4015	564	SX644	1103	T0510BH	1000	T20G	1123	T158	2009	T1208	2035	T2312F	1000
SV4015A	564	SX645	1103	T0510DH	1000	T21	1123	T159	1104	T1340A3H	2030	T2313A	1000
SV12388	1104	SX780	1122	T0512BH	1000	T21G	1123	T170	2009	T1340A3I	1617	T2313B	1000
SV12388E	1104	SX3001	2016	T0512DH	1000	T22	1123	T171	2009	T1340A3J	1617	T2313D	1000
SVB10-100	1171	SX3702	2023	T0605BH	1000	T22G	1123	T185	2009	T1340A3K	1617	T2320A	1000
SVB15-100	1171	SX3709	2009	T0605DH	1000	T23	1123	T200	1104	T1340A3I	1617	T2320B	1000
SVCA25	561	SX3711	2009	T0609BH	1000	T23G	1123	T-203	2016	T1341A3K	2016	T2320C	1000
SVDO2Z9.5A	562	SX3819	2035	T0609DH	1000	T24G	1123	T237	1617	T1402	2016	T2320D	1000
SVDO279.5A	562	SX3825	2016	T0610BH	1000	T26G	1123	T-246	2023	T1408	2058	T2320F	1000
SVDOA70	1123	SX3826	2058	T0610BJ	1000	T27G	1123	T247	2030	T1410	2016	T2322A	1000
SVDOA79	1123	SX3827	2016	T0610DH	1000	T-50	1104	T-251	2023	T1413	1617	T2322B	1000
SVDOA90	1123	SY-23	1104	T0610DJ	1000	T76	1617	T-255	2009	T1414	1617	T2322C	1000
SVD151717	562	SY23	1103	T0612BJ	1000	T87A	1102	T255	2009	T1415	2009	T2322D	1000
SVD151850	1104	SY-24	1104	T0612DJ	1000	T-100	1104	T256	2009	T1416	2009	T2322F	1000
SVD-151850R	1104	SY24	1103	T0805BH	1000	T106A1	1067	T276	2023	T1417	1617	T2323A	1000
SVD151850R	1104	SYL128	1123	T0805DH	1000	T106A15C	1000	T277	2009	T1450	1104	T2323B	1000
SVD10D-1	1104	SYL152	1617	T0809BH	1000	T106A15D	1000	T-291	2030	T1486	2020	T2323C	1000
SVD12B2B1F-M	1171	SYL1182	1617	T0809DH	1000	T106A15G	1000	T291	2009	T1487	2020	T2323D	1000
SVD20A70	1123	SYL4131	2016	T0810BH	1000	T106A15H	1000	T300	1104	T1495	1617	T2323F	1000
SVD20A79	1123	SYL4275	2023	T0810BJ	1000	T106A15S	1000	T308	2016	T1602	2023	T2327A	1000
SVDA52HB10	1114	SYL4280	2030	T0810DH	1000	T106A25C	1000	T327	2009	T1642B	1617	T2327B	1000
SVDMA26-1	1123	SZ090	1617	T0810DJ	1000	T106A25D	1000	T327-2	2009	T1706	2030	T2327C	1000
SVDMA26-2	1122	SZ4.7	565	T0812BH	1000	T106A25G	1000	T328	2009	T1706A	2030	T2327D	1000
SVDOA70	1123	SZ5	565	T0812BJ	1000	T106A25H	1000	T336-2	2030	T1706B	2030	T2327F	1000
SVDOA90	1123	SZ5.1	565	T0812DH	1000	T106A25S	1000	T-339	2030	T1706C	2030	T2446	1617
SVDS1RB10	1171	SZ6	561	T0812DJ	1000	T106B1	1067	T339	2009	T1746	1617	T2634	2016
SVDS-151850	1104	SZ6.2	561	T0813BJ	1000	T106B15C	1000	T340	2023	T1746A	1617	T2801B	1000
SVM61	561	SZ6.2A	561	T0813DJ	1000	T106B15D	1000	T342	2009	T1746B	1617	T2802B	1000
SVM601	561	SZ-9	562	T0.8N0.6A00	1067	T106B15G	1000	T381	2016	T1746C	1617	T2806B	1000
SVM602	561	SZ9	562	T0.8N1A00	1067	T106B15H	1000	T381(SEARS)	2016	T1748	1617	T2857	2016
SVM605	561	SZ9.1	562	T0.8N2A00	1067	T106B15S	1000	T386	1617	T1748A	1617	T3530	2016
SVM6010	561	SZ11.0	563	T0.8N3A00	1020	T106B25C	1000	T386(SEARS)	2016	T1748B	1617	T3536	2016
SW01	563	SZ12	563	T0.8N4A00	1020	T106B25D	1000	T-399	2009	T1748C	1617	T3539	2016
SW-05	1141	SZ12.0	563	T1-1A6	1617	T106B25G	1000	T399	2009	T1802	1617	T3565	2009
SW05	1104	SZ15	564	T1G	1123	T106B25H	1000	T400	1104	T1802A	1617	T-3568	2016
SW-05-005	1104	SZ15.0	564	T1J6G	1104	T106B25S	1000	T416-16(SEARS)	2009	T1802B	1617	T3568	2016
SW05-005	1104	SZ200	565	T1N300	1020	T106C1	1020	T417	2009	T1804	1617	T3568(RCA)	2016
SW-05-01	1104	SZ200-5	565	T1N400	1020	T106C15C	1000	T450	1104	T1805	1617	T3570	2023
SW05-01	1104	SZ-200-8	562	T1P29	2020	T106C15D	1000	T452	2030	T1810	1617	T3601	2009
SW-05-02	1104	SZ200-8	562	T1P29X	2020	T106C15G	1000	T457-16	2009	T1810B	1617	T3601(RCA)	2016
SW05-02	1104	SZ-200-9	562	T1P31	2020	T106C15H	1000	T457-16(SEARS)	2009	T1811	2030	T4590	1123
SW-05-A	1104	SZ200-9	562	T1P31A	2020	T106C15S	1000	T458-16	2009	T1811E	2030	T6000B	1000
SW-05-B	1104	SZ-200-9V	562	T1S14	2035	T106C25C	1000	T459(SEARS)	2009	T1811G	2030	T6006B	1000
SW-05-C	1114	SZ-200-12	563	T1S-18	2058	T106C25D	1000	T460	2009	T1909	1617	T7400B1	1801
SW-05-D	1114	SZ200-13	563	T1S18	2058	T106C25G	1000	T460(SEARS)	2023	T2300A	1000	T7400D1	1801
SW05A	1104	SZ-200-15	564	T1S86	2016	T106C25H	1000	T461-16	2009	T2300B	1000	T7400D2	1801
SW05B	1104	SZ671-B	563	T1S88	2035	T106C25S	1000	T461-16(SEARS)	1617	T2300C	1000	T7401B1	1801
SW05C	1114	SZ671-G	563	T1S92	2009	T106D1	1020	T462	2009	T2300D	1000	T7401D1	1801
SW05D	1114	SZ961-B	564	T1S93	2023	T106D15C	1000	T462(SEARS)	2009	T2300F	1000	T7401D2	1801
SW05S	1104	SZA-6	561	T1S94	2016	T106D15D	1000	T472	2009	T2300PA	1000	T7404B1	1802

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
T7408B1	1822	TA2892	1000	TC5T0388A0	2009	TCG123A	1617	TCG5017A	562	TD3400A	1801	TE1097	1104
T7408D1	1822	TA2911	2020	TC10L82	1067	TCG123AP	2009	TCG5018A	562	TD3400AP	1801	T-E1098	1122
T7408D2	1822	TA6200	2030	TC50	1141	TCG125	1114	TCG5021A	563	TD3400P	1801	TE1098	1123
T7490B1	1808	TA7137	2020	TC100	1143	TCG128	2030	TCG5024A	564	TD3401A	1801	T-E1102	1104
T7490D1	1808	TA7156	2020	TC106A1	1067	TCG130	2041	TCG5069A	565	TD3401AP	1801	T-E1102A	1104
T7490D2	1808	TA7199	2041	TC106A2	1067	TCG132	2035	TCG5070A	561	TD3404A	1802	T-E1105	1123
T9011A1C	2009	TA7200	2041	TC106A3	1067	TCG133	2035	TCG5073A	562	TD3404AP	1802	TE1105	1123
T9011A1G	2009	TA7201	2041	TC106A4	1067	TCG135A	565	TCG5304	1173	TD3447A	1805	T-E1106	563
T9011AZ	2009	TA7202	2041	TC106B	1067	TCG137A	561	TCG5400	1067	TD3447AP	1805	T-E1108	1101
T9011EF	2016	TA7205	705	TC106B1	1067	TCG139A	562	TCG5401	1067	TD3490A	1808	TE1108	1104
T9011G	2016	TA7205A	705	TC106B2	1067	TCG141A	563	TCG5402	1067	TD3490AP	1808	T-E1116	1123
T9011G(CD)	2009	TA7205AP	705	TC106B3	1067	TCG142A	563	TCG5403	1067	TD3490P	1808	T-E1118	1122
T9011G(EF)	2009	TA7205AT	705	TC106B4	1067	TCG145A	564	TCG5404	1067	TD4003	1020	T-E1119	1122
T9011GEF	2016	TA-7205P	705	TC106C1	1020	TCG152	2020	TCG5405	1020	TD81515	1122	T-E1121	1122
T9011H	2016	TA7205P	705	TC106C2	1020	TCG153	2027	TCG5408	1067	TD81518	1122	T-E1122	1114
T9011H(EF)	2009	TA7262	2020	TC106C3	1020	TCG156	1114	TCG5409	1020	TD960016-1M	1122	T-E1124	1104
T9011J(EF)	2009	TA7363	2020	TC106C4	1020	TCG159	2023	TCG5411	1067	TD3214739	562	T-E1127	1114
T9011J(GH)	2009	TA7500	1000	TC106D1	1020	TCG159MCP	2009&23	TCG5412	1067	TD3214742	563	T-E1133	1104
T9016F	2016	TA7501	1000	TC106D2	1020	TCG161	2016	TCG5413	1067	TD3214744	564	T-E1138	1104
T9016H	2016	TA7502	1000	TC106D3	1020	TCG164	2055	TCG5414	1067	TD3907572	562	T-E1140	563
T9423	2058	TA7504	007	TC106D4	1020	TCG165	2055	TCG5415	1020	TD3907592	563	T-E1144	1104
T9631	2009	TA7504P	007	TC106F1	1067	TCG166	1171	TCG5452	1067	TD3909632	563	T-E1148	1104
T9681	2023	TA7554	2020	TC106F2	1067	TCG168	1173	TCG5453	1067	TD3909652	564	T-E1155	1104
T10144	1104	TA7555	2020	TC106F3	1067	TCG177	1122	TCG5454	1067	TDA1412	1771	T-E1157	1104
T10175	1104	TA7556	2027	TC106F4	1067	TCG178MP	1122	TCG5455	1067	TDA1415	1772	T-E1171	1104
T10185	1104	TA7557	2027	TC106Q1	1067	TCG186	2017	TCG5456	1020	TDA1458D	038	T-E1176	1104
T10195	1171	TA8991	2055	TC106Q2	1067	TCG196	2020	TCG5457	1020	TDA1520A	1305	T-E1177	1123
T10453	1104	TA75339	1712	TC106Q3	1067	TCG199	2016	TCG5473	1020	TDA2002	703	TE1420	1617
T13015	2030	TA75339P	1712	TC106Q4	1067	TCG219	2053	TCG5511	1067	TDA7000	1304	TE1990	2030
T14881	1104	TA75458P	038	TC106Y1	1067	TCG229	2048	TCG5512	1020	TDB0555B	1723	TE2369	1617
T21237	1123	TA75558P	038	TC106Y2	1067	TCG233	2009	TCG5600	1000	TDB0555DP	1723	TE2484	2016
T21238	1123	TA75559P	038	TC106Y3	1067	TCG234	2023	TCG5601	1000	TDB0556A	1728	TE2711	2016
T21271	1123	TA75559P(FA-1)	038	TC106Y4	1067	TCG238	2055	TCG5602	1000	TDB0723A	1740	TE2712	2016
T21312	1104	TA75559PFA-1	038	TC136	1104	TCG241	2020	TCG5603	1000	TDB7805T	1770	TE2715	2016
T21313	1123	TA78005AP	1770	TC200	1143	TCG261	2068	TCG5604	1000	TDB7812T	1771	TE2716	2016
T21333	1104	TA78005P	1770	TC2369A	2016	TCG280	2041	TCG5605	1000	TDB7815T	1772	TE2921	2016
T21334	562	TA8320	2035	TC2483	2016	TCG281	2043	TCG5608	1000	TE35	1067	TE2922	2016
T21507	1104	TAC047	1617	TC2484	2016	TCG289	2009	TCG5627	1000	TE55	1067	TE2923	2016
T21600	1122	TAG1-200	1067	TC3114	2016	TCG289A	2009	TCG5633	1000	TE105	1067	TE2924	2016
T21602	1104	TAG1-400	1020	TC4001BP	2401	TCG290	2023	TCG5640	1000	TE205	1067	TE2925	2016
T21639	562	TAG2.5-100	1067	TC4001P	2401	TCG290A	2023	TCG5641	1000	TE305	1020	TE2926	2016
T21649	1104	TAG2.5-200	1067	TC4001UBP	2401	TCG291	2020	TCG5642	1000	TE405	1020	TE3390	2016
T21679	1104	TAG2.5-300	1020	TC4009UBP	2449	TCG312	2035	TCG5650	1000	TE500	2035	TE3391	2016
T30155-001	1104	TAG2.5-400	1020	TC4011	2411	TCG319	2009	TCG5651	1000	TE500-E	2035	TE3391A	2016
T30155-1	1104	TAG200-100	1060	TC4011B	2411	TCG319P	2020	TCG5652	1000	TE697	1617	TE3392	2016
T42692-001	1104	TAG200-200	1000	TC4011BP	2411	TCG331	2009	TCG5800	1141	TE706	2016	TE3393	2016
T42692-1R	1104	TAG200-400	1000	TC4011P	2411	TCG340	2009	TCG5801	1143	TE1010	1104	TE3394	2016
T59235A	1617	TAG201-100	1000	TC4011UBP	2411	TCG377	2020	TCG5802	1143	T-E1011	1104	TE3395	2016
T164213	2030	TAG201-200	1000	TC4013	2413	TCG451	2062	TCG5803	1144	TE-1011	1104	TE3396	2016
T1003521	2016	TAG201-400	1000	TC4013B	2413	TCG457	2062	TCG5804	1144	TE1011	1104	TE3397	2016
T1084671	1617	TAG222-400	1000	TC4013BCP	2413	TCG507	1101	TCG7400	1801	T-E1014	1123	TE3398	2016
T1008834	1617	TAG611-100	1067	TC4013BP	2413	TCG519	1122	TCG7401	1801	TE-1014	1123	TE3414	1617
T220001040	2035	TAG611-200	1067	TC4013P	2413	TCG524V13	568	TCG7404	1802	TE1014	1123	TE3415	1617
T407185152	2023	TAG611-400	1020	TC4017BP	2417	TCG552	1104	TCG7408	1822	T-E1024	1104	TE3416	2030
TA1Z	2030	TAG612-100	1067	TC4017P	2417	TCG778A	038	TCG7447	1805	TE1024	1104	TE3605	1617
TA2A	2009	TAG612-200	1067	TC4049BP	2449	TCG823	1731	TCG7490	1808	T-E1024C	1104	TE3605A	1617
TA2T00733Q	2023	TAG612-400	1020	TC4049P	2449	TCG832	1721	TCG75188	2520	TE1024C	1104	TE3606	2009
TA3	1114	TAI00T01P	2023	TC4066	2466	TCG834	1712	TCG75189	2521	T-E1024D	1104	TE3606A	2009
TA3T006080	2023	TAV	1114	TC4066B	2466	TCG923D	1740	TCH98	2023	TE1024D	1104	TE3607	1617
TA3T0608K0	2023	TB-1	1171	TC4066BP	2466	TCG941M	007	TCH99	2023	T-E1029	1101	TE3662	2016
TA5	1114	TB-4	1173	TC4066P	2466	TCG955M	1723	TCH99B	2023	TE-1029	1122	TE3663	2016
TA 6	1617	TB-1	1102	TC7400	1801	TCG956	1778	TCI00501P	2009	TE1029	1104	TE3704	1617
TA6	1617	TB5	1141	TC500388A0	2009	TCG960	1770	TCO2P112	1104	T-E1031	1123	TE3705	1617
TA-7	2016	TB100	1143	TC30005360	2009	TCG966	1771	TCO914	2009	TE-1031	1123	TE3707	2016
TA7	1617	TB200	1143	TC30031560	2055	TCG968	1772	TCO.09M22/1	1171	TE1031	1123	TE3708	2016
TA50	1104	TB81458B	038	TC311200600	1123	TCG978	1728	TD-15-BL	1122	T-E1042	1171	TE3709	2016
TA100	1104	TBC337	2016	TC312307222	2009	TCG987	1711	TD100	2009	TE1042	1104	TE3710	2016
TA200	1104	TBC338	2016	TC3112006000	1123	TCG1155	705	TD102	2009	T-E1050	1104	TE3711	2016
TA300	1104	TBC414C	2009	TC3112319300	1104	TCG1232	703	TD200	2009	TE-1050	1104	TE3843	2016
TA400	1104	TBC547	2016	TC3123036722	1617	TCG3007	026	TD201	2009	TE1050	1104	TE3844	2016
TA500	1104	TBC548	2016	TC3123036900	1617	TCG3012	033	TD202	2009	T-E1064	1104	TE3845	2016
TA600	1104	TBC549	2016	TC3123037111	1617	TCG3022	041	TD250	2009	T-E1068	563	TE3854	2016
TA721KP	1114	TBC550	2016	TC3123037222	1617	TCG3026	025	TD400	2023	TE1068	563	TE3854A	2016
TA800	1114	TBRC147B	2009	TC3123037412	1617	TCG3047	134	TD401	2023	T-E1077	563	TE3855	2016
TA1000	1114	TC02P12	1104	TCG2V130	570	TCG3056	075	TD402	2023	TE1077	563	TE3855A	2016
TA1062	1104	TC02P112	1104	TCG85	2009	TCG3061	053	TD500	2023	T-E1078	1104	TE3859	2016
TA1063	1104	TC0914	2016	TCG107	2016	TCG3115	081	TD501	2023	TE1078	1104	TE3860	2016
TA1064	1104	TC0918	2016	TCG108	2016	TCG4001B	2401	TD502	2023	T-E1078A	1104	TE3900	2016
TA1222	1067	TC0.09M21/3	1101	TCG108-1	2016	TCG4011B	2411	TD503	1067	T-E1080	1104	TE3900A	2016
TA1225	1020	TC-0.09M21/5	1101	TCG109	1123	TCG4013B	2413	TD550	2023	TE1080	1104	TE3901	2016
TA2401	2016	TC0.09M22/1	1171	TCG110	1123	TCG4017B	2417	TD1003	1067	T-E1088	1104	TE3903	1617
TA2503	2016	TC0.2P11/2	1104	TCG110MP	1123	TCG4049	2449	TD1401	1801	TE1088	1104	TE3904	1617
TA2554	2016	TC0.2P11/12	1101	TCG114	1101	TCG4049B	2449	TD1401P	1801	T-E1089	1104	TE3905	2023
TA2555	2016	TC2T009450	2009	TCG116	1104	TCG4066B	2466	TD2003	1067	TE1089	1104	TE3906	1617
TA2577A	2041	TC3T005360	2009	TCG117A	1114	TCG5009A	565	TD2219	2009	T-E1090	1104	TE4123	1617
TA2888	1067	TC3T0536K0	2009	TCG120	1101	TCG5010A							

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TE4126	2023	TG25B511-1	2027	TG51	1104	TI-416	2016	TI907	1617	TIR10	1114	TIS92-YEL	2009
TE4256	2016	TG25B698	2023	TG52	1104	TI416	1617	TI-908	1617	TIS-03	2023	TIS92	2030
TE4409	2009	TG25B698[,25B698(G)]	2023	TG61	1104	TI-417	1104	TI908	1617	TIS03	2023	TIS92M-GRN	2009
TE4424	1617		2023	TG62	1104	TI-417	1104	TI9015	2030	TIS04	2023	TIS92M-GRY	1617
TE4951	1617	TG25B698F	2023	T-G1138	1123	TI-418	2016	TI-3016	2016	TIS-16	2016	TIS92M-YEL	2009
TE4952	1617	TG25B698F[,25B698(G)]	2023	T-G5033	2030	TI418	1617	TI3016	2016	TIS14	2035	TIS93	2023
TE4953	1617		2023	T-G5055	2030	TI-419	2016	TI8003B	2009	TIS-18	2016	TIS93-B	2023
TE4954	1617	TG25C536	2009	TGB0331	2009	TI419	1617	TI64213	1617	TIS18	2016	TIS93-BLU	2023
TE5088	2016	TG25C536(C)	2009	T-H15557	1114	TI-420	2016	TI406	1617	TIS22	1617	TIS93-G	2023
TE5089	2016	TG25C536(E)	2009	TH15557	1104	TI420	1617	TI4102	1617	TIS23	1617	TIS93-GRN	2023
TE5249	2016	TG25C536-D-A	2009	T-H25C313	2016	TI-421	2016	TI44	1067	TIS24	2016	TIS93-GRY	2023
TE5309	2016	TG25C536-E	2009	T-H25C387	2016	TI-422	2016	TI45	1067	TIS34	2035	TIS93-V	2023
TE5310	2016	TG25C536-E-A	2009	TH25C535	2016	TI422	1617	TI46	1067	TIS37	2023	TIS93-VIO	2023
TE5311	2016	TG25C536-E-B	2009	T-H25C536	2009	TI-423	2016	TI47	1067	TIS38	2023	TIS93-YEL	2023
TE5365	2023	TG25C536-F	2009	TH25C536	2009	TI423	1617	TI106Y	1067	TIS42	2035	TIS93M-BLU	2023
TE5366	2023	TG25C536-F-A	2009	T-H25C693	2016	TI-424	2030	TIC201A	1000	TIS44	1617	TIS93M-GRN	2023
TE5368	1617	TG25C536E	2009	TH25C693	2009	TI424	1617	TIC201B	1000	TIS45	1617	TIS93M-VIO	2023
TE5369	1617	TG25C536NP	2009	T-H25C715	2009	TI-425	2030	TIC201C	1000	TIS46	1617	TIS93M-YEL	2023
TE5370	1617	TG25C536NP[,25C536NP	2009	TH25C715	2009	TI425	2030	TIC201D	1000	TIS47	1617	TIS-94	2016
TE5371	1617	(G)]	2009	TH50	1104	TI-428	2023	TIC205A	1000	TIS48	1617	TIS94	2009
TE5376	1617	TG25C536NPF	2009	TH400	1104	TI428	2023	TIC205B	1000	TIS49	1617	TIS94(AFAMP)	2009
TE5377	1617	TG25C536NPF	2009	TH600	1104	TI-429	2023	TIC205D	1000	TIS50	2023	TIS94(XSTR)	2009
TE5378	2023	(,25C536NP(G))	2009	TH800	1114	TI429	2023	TIC206A	1000	TIS51	1617	TIS-97	2016
TE5379	2023	TG25C536SP	2009	TH801	1104	TI-430	2016	TIC206B	1000	TIS52	1617	TIS97	2009
TE5447	2023	TG25C536SP[,25C536SP	2009	TH802	1104	TI430	1617	TIC206C	1000	TIS53	2023	TIS-98	2009
TE5448	2023	(G)]	2009	TH803	1104	TI-431	2016	TIC206D	1000	TIS54	2023	TIS98	2016
TE5449	1617	TG25C536SPF	2009	TH804	1104	TI431	2016	TIC216A	1000	TIS55	1617	TIS99	2016
TE5450	1617	TG25C536SPF[,25C536SP	2009	TH805	1104	TI-432	1617	TIC216B	1000	TIS56	2016	TIS104	2023
TE5451	1617	(G)]	2009	TH806	1104	TI432	1617	TIC216C	1000	TIS57	2016	TIS108	2058
TE13004	2023	TG25C927(C)	2016	TH808	1114	TI-433	1617	TIC216D	1000	TIS58	2035	TIS107	2030
TE13005	2023	TG25C927-C-A	2016	TH810	1114	TI433	1617	TIC225A	1000	TIS59	2035	TIS108	2058
TEG0129	2016	TG25C927-D-A	2016	TH1000	1114	TI-474	2016	TIC225B	1000	TIS60	2009	TIS110	2030
TEH0147	2009	TG25C927-E-A	2016	THD3600	1104	TI474	2016	TIC225C	1000	TIS60A	2030	TIS111	2030
TEH0149	2009	TG25C1175	2009	TH-H25C313	2016	TI-475	2030	TIC225D	1000	TIS60B	2030	TIS112	2023
TF20	1104	TG25C1175(C)	2009	T-H56105	1104	TI475	2030	TIC226A	1000	TIS60C	2030	TIS112	1617
TF21	1104	TG25C1175-	2009	T-H5G105	1104	TI-480	2030	TIC226B	1000	TIS60D	2030	TIS114	1617
TF22	1104	TG25C1175-C	2009	TH5G105	1104	TI480	1617	TIC226C	1000	TIS60E	2030	TIS-125	2009
TF23	1104	TG25C1175-D	2009	THZ821	561	TI-481	2030	TIC226D	1000	TIS60M	2030	TIS125	2058
TF44	1122	TG25C1175-E	2009	THZ823	561	TI481	2030	TIC536F	2009	TIS61	2023	TIS126	2058
TF5056344G	1020	TG25C1293	2016	THZ825	561	TI-482	2030	TI381	1101	TIS-62	2009	TIS129	2058
TF-78	1617	TG25C1293(A)	2016	THZ827	561	TI482	1617	TI209A	026	TIS62	2016	TIS133	2009
TFR105	1114	TG25C1293-	2009	THZ829	561	TI-483	2030	TI312	053	TIS62A	2016	TIS134	2009
TFR110	1114	TG25C1293-A-A	2016	TI031	1122	TI483	1617	TI414	145	TIS63	2016	TIS135	2030
TFR-120	1104	TG25C1293-B-A	2016	TI1A6	1617	TI-484	2030	TI906-1	143	TIS63A	2016	TIS136	2030
TFR120	1104	TG25C1293-C-A	2016	TI24A	1617	TI484	1617	TIIP-14	2020	TIS64	2016	TIS137	2023
TFR140	1114	TG25C1293-D-A	2016	TI24B	1617	TI485	1617	TIIP24	2020	TIS64A	2016	TIS412	2016
TG25A608	2023	TG25C1293A	2016	TI25A	2016	TI486	2020	TIIP-29	2020	TIS71	1617	TIS991	2023
TG25A608(C)	2023	TG25C1295(O)	2055	TI25B	2016	TI487	2020	TIIP29	2020	TIS72	1617	TIS992	2009
TG25A608-D	2023	TG25C1295-O	2055	TI-51	1122	TI-490	2016	TIIP29A	2020	TIS78	2035	TIS993	2023
TG25A608-E	2023	TG25C1295-O	2055	TI51	1122	TI490	2016	TIIP-30	2027	TIS79	2035	TI-UG-1888	1122
TG25A608C	2023	TG25C2057-C	2058	TI52	1104	TI-492	2017	TIIP31	2017	TIS82	2017	TI-UG1888	1122
TG25A608F	2023	TG25C2057-D	2058	TI53	1101	TI492	1617	TIIP31A	2020	TIS83	2009	TIK712	2009
TG25A608K	2023	TG25C2057-E1	2058	TI54	1101	TI-493	2016	TIIP31B	2016	TIS84	2058	TIK804	2023
TG25A608K[,25A608K	2023	TG25C2057C	2058	TI54A	1617	TI493	1617	TIIP31C	2020	TIS85	2016	TIK805	2023
(F)]	2023	TG25C2057D	2058	TI54D	2016	TI-494	2016	TIIP41	2020	TIS86	2058	TIK875	2016
TG25A608NP	2023	TG25C2274	2009	TI54E	1617	TI494	1617	TIIP41A	2020	TIS87	2058	TIK880	2016
TG25A608NP	2023	TG25C2274[,25C2274(F)]	2009	TI-55	1104	TI-495	2016	TIIP41B	2020	TIS-88	2035	TIK890	2023
(,25A608NP(G))	2023		2009	TI55	1104	TI495	1617	TIIP41C	2020	TIS88	2035	TIK891	2023
TG25A608NPF	2023	TG25C2274E	2009	TI-56	1141	TI-496	2030	TIIP73	2020	TIS89	2009	TIKX753	561
TG25A608NPF	2023	TG25C2274E[,25C2274	2009	TI56	1104	TI496	1617	TIIP73A	2020	TIS90	2009	TIK-M14	2016
(,25A608NP(G))	2023	(H)]	2009	TI57	1102	TI-503	2023	TIIP73B	2020	TIS90-GRN	2009	TIK-M15	2016
TG25A608NPG	2023	TG25C2274F	2009	TI58	1103	TI503	2023	TIIP73C	2020	TIS90-GRY	1617	TIK-M16	2016
TG25A608SP	2023	TG25C2999	2016	TI59	1104	TI642B	2009	TIIP100	2068	TIS90-YEL	2009	TIK509	2016
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(G)]	2023	TG25D313E	2020	TI-71	1104	TI714	1617	TIIP102	2068	TIS90M-GRY	1617	TIK512	2009
TG25A608SPF	2023	TG25D313E[,25D313(E)]	2020	TI71	1104	TI-714A	1617	TIIP110	2068	TIS90M-VIO	1617	TIK513	2009
TG25A608SPF	2023		2020	TI-92	1617	TI-741	2035	TIIP111	2068	TIS90M-YEL	2009	TIK529	2016
(,25A608SP(G))	2023	TG25D313E[,25D313(F)]	2020	TI92	1617	TI741	2035	TIIP112	2068	TIS91	2023	TIK529	2016
TG25A659	2023		2020	TI152	1104	TI-743	2023	TIIP120	2068	TIS91-BLU	2023	TIK530	2016
TG25A953	2023	TG25D325-1	2017	TI159	1102	TI743	2023	TIIP121	2068	TIS91-GRN	2023	TIK531	2016
TG25A953[,25A953(L)]	2023	TG25D613D	2020	TI-365A	1171	TI-744	2023	TIIP122	2068	TIS91-VIO	2023	TJ5A	1104
TG25A984	2023	TG25D613D[,25D613(E)]	2020	TI-407	2016	TI744	2023	TIIP130	2068	TIS91-YEL	2023	TJ10A	1104
TG25A984(F)]	2023		2020	TI407	2016	TI-751	1617	TIIP131	2068	TIS91M	2023	TJ15A	1104
TG25A984[,25A984(F)]	2023	TG25D613E	2020	TI408	2016	TI751	1617	TIIP132	2068	TIS91M-BLU	2023	TJ20A	1104
	2023	TG25D613E[,25D613E]	2020	TI408	2016	TI-752	2023	TIIP551	2023	TIS91M-GRN	2023	TJ25A	1104
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TG25A984E[,25A984(F)]	2023	TG25D734	2009	TI409	2016	TI802B	1617	TIIP553	2055	TIS91M-VIO	2023	TJ35A	1104
	2023	TG25D734[,25D734(G)]	2009	TI410	2016	TI803B	1617	TIIP3055	1617	TIS91M-YEL	2020	TJ40A	1104
TG25A984K	2023		2009	TI411	1617	TI-806G	1617	TIIR01	1104	TIS92	2009	TJ60A	1104
TG25A984K[,25A984K	2023	TI-12	1104	TI-412	1617	TI810B	1617	TIIR02	1104	TIS92-B	1617	TK5	1102
(F)]	2023	TI-21	1104	TI412	1617	TI811G	2030	TIIR03	1104	TIS92-BLU	2009	TK10	1104
TG25A984KE	2023	TI-22	1104	TI-413	1617	TI-890	2023	TIIR04	1104	TIS92-G	1617	TK11	1104
TG25A984KE[,25A984K	2023	TI-31	1104	TI413	1617	TI890	2023	TIIR05	1104	TIS92-GRN	2009	TK20	1104
(F)]	2023	TI-32	1104	TI-414	1617	TI904	1617	TIIR06	1104	TIS92-GRY	2009	TK21	1104
TG25A1016	2023	TI-41	1104	TI414	1617	TI-905	2023	TIIR07	1114	TIS92-V	1617	TK30	1104
TG25A1016[,25A1016	2023	TI-42	1104	TI-415	2016	TI905	2023	TIIR08	1114	TIS92-VIO	2009	TK-40	1104
(G)]	2023	TI-48	1123	TI415	1617	TI-907	1617	TIIR09	1114	TIS92-Y	1617	TK-41	1104

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TK50	1104	TM115	1101	TM5009A	565	TN25A1175(,25A1175		TNJ61671(25C688)	2016	TP253A	2023	TQ5053	2009
TK60	1104	TM116	1104	TM5010	565	(M)	2023	TNJ61672(25K25)	2035	TP302	1104	T-Q5053C	2009
TK61	1104	TM120	1101	TM5010A	565	TN25C945	2009	TNJ61673	2035	TP402	1104	TQ-5054	2009
TK200A	2020	TM123	1617	TM5013A	561	TN25C945(,25C945(K))	2009	TNJ61673(25K24)	2035	TP3566	2009	TQ5054	2009
TK201A	2020	TM123A	1617	TM5017A	562	TN25C945(,25C945(P))	2009	TNJ61679	2016	TP3638	2023	T-Q5055	2016
TK254A	1617	TM123AP	2009	TM5018A	562	TN25C945(,25C945(P))	2009	TNJ61730	2016	TP3644	2023	T-Q5055	2030
TK255A	1617	TM125	1114	TM5021A	563		2009	TNJ61731	2016	TP3645	2023	TQ5055	2030
TK256A	1617	TM128	2030	TM5024A	564	TN25C945-Q	2009	TNJ70450	2017	TP3702	2023	TQ-5060	2009
TK257A	1617	TM130	2041	TM5069A	565	TN25C945-R	2009	TNJ70478	2016	TP3703	2023	TQ5060	2009
TK258A	1617	TM132	2035	TM5070	561	TN25C945K	2009	TNJ70478-1	2016	TP3704	2016	T-Q5063	2030
TK259A	1617	TM133	2035	TM5070A	561	TN25C945K(,25C945(P))	2009	TNJ70479	2016	TP3705	2016	T-Q5071	2016
TK264A	1617	TM135	565	TM5073	562		2009	TNJ70479-1	2009	TP3706	2016	T-Q5073	1617
TK400	1104	TM135A	565	TM5073A	562	TN25C945R	2009	TNJ70480	2016	TP3707	2009	T-Q5077	2023
TK600	1104	TM137	561	TM5404	1067	TN25C2002	2009	TNJ70482	2030	TP3708	2009	T-Q5078	2009
TK800	1114	TM137A	561	TM5414	1067	TN25C2002(,25C2002(L))	2009	TNJ70482	2016	TP3709	2009	T-Q5079	2016
TK1000	1114	TM139	562	TM5452	1067		2009	TNJ70537	1617	TP3710	2009	T-Q5081	2030
TK1228-1008	1617	TM139A	562	TM5454	1067	TN25C2002(,25C2002	2009	TNJ70539	1617	TP3711	2009	TQ5081	2030
TK1228-1009	1617	TM141	563	TM5455	1067	(M))	2009	TNJ70637	2009	TP4001	2401	T-Q5083	2055
TK1228-1010	1617	TM141A	563	TM5800	1141	TN25C2002K	2009	TNJ70638	2058	TP4001AN	2401	T-Q5084	2055
TK1228-1011	1617	TM142	563	TM5802	1143	TN25C2002K(,25C2002	2009	TNJ70639	2009	TP4001BN	2401	T-Q5086	2016
TK1228-1012	1617	TM142A	563	TM5804	1144	(L))	2009	TNJ70640	2009	TP4001BP	2401	T-Q5087	2023
TKF5	1104	TM145	564	TMD01	565	TN25C2002L	2009	TNJ70691	2016	TP4009UBN	2449	T-Q5093	2016
TKF10	1104	TM145A	564	TMD01A	565	TN25C2002L(,25C2002	2009	TNJ71034	2016	TP4011	2411	T-Q5099	2030
TKF20	1104	TM152	2020	TMD03	561	(M))	2009	TNJ71035	2030	TP4011AN	2411	T-Q5105	2041
TKF40	1104	TM153	2027	TMD03A	561	TN25C2785	2009	TNJ71036	2009	TP4011B	2411	T-Q5106	2016
TKF60	1104	TM156	1114	TMD07	562	TN25C2785(,25C2785(F))	2009	TNJ71037	2023	TP4011BN	2411	TR0055	2023
TKF80	1114	TM159	2023	TMD07A	562		2009	TNJ71143	2016	TP4011BP	2411	TR-01(PENNCREST)	2030
TKF100	1114	TM161	2016	TMD10	563	TN25C2785E	2009	TNJ71173	2016	TP4013	2413	TR-01B	2016
TKTA562-O	2023	TM164	2055	TMD10A	563	TN25C2785E(,25C2785	2009	TNJ71234	2030	TP4013AN	2413	TR-01B(PENNCREST)	1617
TKTA1015Y	2023	TM165	2055	TMD41	1122	(F))	2009	TNJ71271	2016	TP4013BN	2413	TR-01C(PENNCREST)	1617
TKTC1815Y	2009	TM166	1171	TMD42	1102	TN25C2785H	2009	TNJ71277	2016	TP4017	2417	TR-01E	2030
TKTC2120Y	2009	TM168	1173	TMD45	1102	TN25D568K	2020	TNJ71498	2016	TP4017AN	2417	TR-01E	2030
TL072CP	1715	TM177	1122	TMM2764D-2	1251	TN25K68A	2035	TNJ71629	2016	TP4049	2449	TR-01E	2030
TL1	1104	TM178MP	1122	TMM4164P-3	2506	TN25K68A(,25K68A(M))	2009	TNJ71773	2023	TP4049AN	2449	TR-01E(PENNCREST)	2030
TL2	1104	TM186	2017	TMPD6050	1104		2035	TNJ71774	2023	TP4049UBN	2449	TR-02E	1104
TL25C2021R	2016	TM196	2020	TMPD6100	1104	TN10	1114	TNJ71937	2016	TP4067-409	1104	TR-06(PENNCREST)	1617
TL11	1104	TM199	2016	TMS2564-35	1251	TN-53	1617	TNJ71963	2016	TP4067-410	2016	TR-07(PENNCREST)	2030
TL12	1104	TM219	2043	TMS2564-45	1251	TN53	1617	TNJ71964	2016	TP4067-411	2016	TR01014	2016
TL21	1104	TM229	2058	TMS4164-15	2506	TN-54	1617	TNJ71965	2016	TP4123	1617	TR01015	2009
TL22	1104	TM233	2009	TMS4164-15NLI	2506	TN55	1617	TNJ72146	2055	TP4124	1617	TR01026	2016
TL31	1104	TM234	2023	TMS4164-20	2506	TN56	1617	TNJ72148	2041	TP4125	2023	TR01037	2030
TL32	1104	TM238	2055	TMS4164-20NL	2506	TN-59	1617	TNJ72149	2055	TP4126	2023	TR01040	2016
TL41	1104	TM241	2020	TMS4164-25	2506	TN59	1617	TNJ72150	2016	TP4257	2023	TR01042	2016
TL42	1104	TM242	2055	TMS4164NLJ	2506	TN-60	1617	TNJ72151	2016	TP4258	2023	TR01053-1	2023
TL51	1104	TM261	2068	TMS4256	1252	TN60	1617	TNJ72154	2023	TP4275	2016	TR01054-7	2030
TL61	1104	TM280	2041	TMS4256-15	1252	TN-61	1617	TNJ72275	2016	TP5135	2009	TR01062-1	2030
TL106-05	1067	TM281	2043	TMT696	2016	TN61	1617	TNJ72276	2009	TP5136	2023	TR01073	2009
TL106-1	1067	TM289	2009	TMT697	2016	TN-62	1617	TNJ72277	2016	TP5142	1617	TR01074	2009
TL106-2	1067	TM290	2023	TMT839	2016	TN-62	1617	TNJ72279	2016	TP56512	2023	TR02020-2	2023
TL106-4	1020	TM291	2020	TMT840	2016	TN-63	1617	TNJ72280	2009	TP56513	1617	TR02051-1	2023
TL107-05	1067	TM312	2035	TMT841	2016	TN63	1617	TNJ72281	1617	TP56514	1617	TR02051-5	2023
TL107-1	1067	TM319	2009	TMT842	2016	TN-64	1617	TNJ72288	2030	TP56515	1617	TR02051-6	2023
TL107-2	1067	TM331	2020	TMT843	2016	TN64	1617	TNJ72368	2016	TP56516	2023	TR02062-1	2023
TL107-4	1020	TM340	2009	TMT1543	1617	TN80	1617	TNJ72701	2016	TP56517	2023	TR02062-6	2023
TL413	145	TM377	2020	TMT2427	2016	TN237	1617	TNJ72775	2017	TP56518	2023	TR02063-8	2023
TL4558P	038	TM507	1101	TN25A733	2023	TN238	1617	TNJ72783	1617	TP56519	2023	TR02063-8	2023
TL7400N	1801	TM519	1122	TN25A733(,25A733(P))	2023	TN421	2030	TNJ72784	1617	TP56520	1617	TR06011	2035
TL7401N	1801	TM552	1104		2023	TN-3200	2016	TNT839	2016	TP56521	1617	TR06014	2035
TL7404N	1802	TM778	038	TN25A733(,25A733(Q))	2023	TN3200	2016	TNT840	2016	TP56522	2023	TR010602-1	2016
TL7447AN	1805	TM778A	038		2023	TN-3903	1617	TNT841	2016	TP56523	2023	TR0573486	2009
TL7490N	1808	TM823	1731	TN25A733-4	2023	TN3903	1617	TNT842	1617	TQ1	2016	TR0573491	2009
TLCS48	1796	TM832	1721	TN25A733-Q	2023	TN-3904	1617	TNT843	1617	TQ2	2016	TR0573507	2009
TLCS55	1718	TM834	1712	TN25A733-Q-B	2023	TN3904	1617	TNT844	1617	TQ3	2016	TR0575002	1123
TLR104	033	TM923D	1740	TN-25A733-Q-B	2023	TNC61689	1617	TO-038	1617	TQ4	1617	TR0575005	1123
TLR-107	033	TM941M	007	TN25A733-R	2023	TNC61690	2023	TO-039	1617	TQ5	2016	TR1AC	1000
TLR123	026	TM955M	1723	TN25A733-R-A	2023	TNC61702	1617	TO-040	1617	TQ6	2016	TR1N4002	1104
TLR124	026	TM960	1770	TN25A733K	2023	TNC61703	2023	TO1-101	1617	TQ7	2016	TR-1R31	2016
TLR-147	033	TM966	1771	TN25A733K(,25A733(E))	2023	TNJ61672(RECT)	1104	TO1-104	1617	TQ8	2016	TR-1R33	2009
TLR312	075	TM968	1772		2023	TNJ1034	2016	TO1-105	1617	TQ9	2016	TR-1R35	2016
TM33	1104	TM978	1728	TN25A733P	2023	TNJ1036	2009	TP20-0284	561	TQ53A	2023	TR2A	1104
TM43	1104	TM987	1711	TN25A733P(,25A733(Q))	2023	TNJ60069(25C74)	2016	TP34	1123	TQ54A	2023	TR-2R31	2016
TM61	1114	TM1155	705		2023	TNJ60076	2009	TP34A	1123	TQ-59	2023	TR-2R33	2016
TM62	1104	TM1232	703	TN25A733Q	2023	TNJ60447	2016	TP101	1104	TQ-60	2023	TR-2R35	2016
TM63	1104	TM1613	1617	TN25A733R	2023	TNJ60448	2016	TP107	2009	TQ-61	2023	TR251570LH	2016
TM65	1104	TM1614	2023	TN25A952L	2023	TNJ60449	2016	TP107A	2009	TQ61	2023	TR25A763	2023
TM66	1104	TM1711	1617	TN25A952L(,25A952(M))	2023	TNJ-60604	2009	TP107B	2009	TQ61A	2023	TR-25C367	2009
TM84	1114	TM1712	2023		2023	TNJ60604	2016	TP108	2009	TQ-62	2023	TR-25C371	2016
TM85													

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TR25K55	2035	TR #5(IR)	2016	TR8027	2035	TR-8C147B	1617	TT204A	2016	TV59	2030
TR-3R31	2016	TR #5(XSTR)	2016	TR-8028	2016	TRBC147B	1617	TT204AB	2016	TV-60	2009
TR-3R33	2016	TR #5B	562	TR8028	1617	TR-8C149C	2016	TT204B	2016	TV60	2016
TR-3R35	2016	TR125	564	TR-8029	2016	TR-FE100	2035	TT204C	2016	TV-62	2009
TR-3R38	1617	TR125B	564	TR8029	1617	TRL104LED	033	TT1097	1617	TV-65	2009
TR-4R31	2030	TR 162(OLSON)	1617	TR-8030	2016	TRO1026	2009	TT-25C1000GB	2016	TV65	2009
TR-4R33	1617	TR 163(OLSON)	2016	TR8030	1617	TRO1037	2016	TT-25C1000GBL	2016	TV-66	2009
TR-4R35	2016	TR 164(OLSON)	2030	TR-8031	2016	TRO1042	2016	TV25C208	1617	TV66	2009
TR-4R38	2023	TR-167(OLSON)	2023	TR8031	1617	TRO1051-5	2009	TV4	1104	TV-67	2030
TR-5R31	2030	TR 171	2016	TR-8032	2016	TRO1054-1	2030	TV-6	2009	TV67	2009
TR-5R33	1617	TR 209T2	562	TR-8034	2016	TRO6011	2035	TV6	2009	TV-68	2009
TR-5R35	1617	TR 171TR26	2041	TR8034	2009	TRO10602-1	2009	TV-7	2016	TV68	2009
TR-5R38	1617	TR 302	1617	TR-8035	2009	TRPLC711	2016	TV7	2009	TV-73	2017
TR55	565	TR 301	1617	TR8035	2009	TRR6	561	TV8	1114	TV74	2017
TR-6R33	1617	TR 1000-2	2023	TR-8036	2030	TR-RR38	1617	TV15	2016	TV-75	2017
TR-6R35	2023	TR 1000-3	2030	TR8036	2030	TRSR3AM	1114	TV-15A	2016	TV-77	2009
TR65	561	TR 1000-7	2041	TR-8037	2023	TR-TR38	1617	TV15A	2016	TV80	2035
TR-7R31	2030	TR1001	2030	TR-8038	2016	TR-U1650E	2035	TV-15B	2016	TV81	2009
TR-7R35	1617	TR1003	2030	TR8038	2009	TR-U1650E-1	2035	TV15B	2016	TV-82	2017
TR-75B	563	TR1005	2030	TR-8039	2009	TR-U1835E	2035	TV15C	2016	TV-83	2035
TR-8R35	1617	TR1007	2041	TR8039	2009	TS05	1104	TV-16	2016	TV83	2035
TR-9G5	562	TR1011	2009	TR-8040	2016	TS06200	561	TV16	2016	TV-84	2009
T-R95	562	TR1025	2041	TR8040	2009	TS09100	562	TV-17	2009	TV84	2009
TR-95	562	TR1030	2023	TR-8042	1617	TS1	1104	TV17	1617	TV-87	2023
TR95	562	TR 1030-1	2023	TR8042	2016	TS2	1104	TV-18	1617	TV87	2023
TR-95A	562	TR1030-1	2023	TR-8043	2016	TS2A	1104	TV18	2016	TV-92	2009
TR-95B	562	TR 1030-2	2023	TR8043	1617	TS3	1114	TV18B	2009	TV92	2009
TR95B	562	TR1030-2	2023	TR8053	1617	TS4	1144	TV-20	2009	TV-93	2023
TR12EBM	563	TR1031	2009	TR8330	2009	TS5	1104	TV20	2016	TV93	2023
TR125A	563	TR 1031-1	2009	TR9100	1617	TS6	1104	TV-21	1617	TV105	2043
TR-19	2023	TR 1033-2	2009	TR-9100-18	1617	TS8	1114	TV-22	2016	TV110	2043
TR19	2023	TR1032	2023	TR12001-4	1123	TS97-1	2023	TV-23	1617	TV-112	2020
TR-20	2023	TR1032-1	2023	TR14002-6	563	TS-337	563	TV23	2030	TV112	2020
TR20	2023	TR 1032-2	2023	TR14002-12	564	TS2218	2030	TV25	2030	TV-115	2020
TR-20A	2023	TR1033	1617	TR36643	2030	TS2219	2030	TV-26	2030	TV115	2016
TR-21	1617	TR 1033-1	1617	TR310230	2016	TS2221	1617	TV-28	2030	TV-116	2027
TR21	1617	TR 1033-2	1617	TR310231	1617	TS2222	1617	TV-32	2009	TV-117	2020
TR-21C	2009	TR 1033-3	1617	TR310243	1617	TS2779	2009	TV32	2016	TV117	2020
TR-22	2009	TR 1033-3	1617	TR310244	2016	TS2904	2023	TV-33	2009	TV-124	2055
TR-22C	2009	TR1034	2023	TR310245	1617	TS2905	2023	TV33	2016	TV124	2055
TR23	2030	TR 1037-3	2017	TR310249	2016	TS2906	2023	TV-34	2009	TV-125	2055
TR-24	2016	TR1038-4	2043	TR310250	2016	TS2907	2023	TV-35	2009	TV1000	2016
TR24	2016	TR1038-5	2043	TR320007	1123	TS9013	2016	TV35	2016	TV2403	2016
TR-24(PHILCO)	2009	TR 1039-4	2041	TR320008	1123	TSB-245	1104	TV-36	2016	TV2404	2016
TR-25	2030	TR1039-4	2041	TR320020	1104	TSB245	1104	TV36	2009	TV2419	1104
TR25	2030	TR 1039-5	2041	TR320022	1104	TSB-1000	1104	TV-37	2016	TV2496	1104
TR-26	2041	TR 1039-6	2041	TR320039	1123	TS136	1122	TV37	2009	TV24100	1104
TR26	2041	TR 1077	2041	TR320041	1123	TS159	1104	TV-38	2016	TV24102	2016
TR28	2023	TR1490	2041	TR320048	1123	TS-499	2016	TV38	1617	TV24104	1104
TR-29	2043	TR1491	2041	TR330027	1104	TS499	1617	TV-39	2016	TV24122	1123
TR-30	2023	TR1492	2041	TR2320063	2009	TS614	2016	TV39	1617	TV24125	1104
TR30	2023	TR 1493	2041	TR2327031	1102	TS695	1617	TV-40	1617	TV24136	1104
TR-30A	2023	TR 1112-80	2016	TR2327041	1102	TS-722	2030	TV40	1617	TV24155	1104
TR-31	2023	TR 1193-2	1617	TR2327203	2020	TS722	2030	TV-41	2030	TV24160	2016
TR31	2023	TR 1083-41	1123	TR2327293	2009	TS767	2016	TV41	2030	TV24161	2016
TR33	2016	TR 1083-42	1122	TR2327333	2009	TSV-1000	1104	TV-42	2009	TV24167	1104
TR38	2016	TR 1083-44	1122	TR2327363	2016	TSZ5-1	565	TV42	2030	TV24180	1104
TR-51	2009	TR 1083-70	2035	TR2327393	1617	TSZ6-2	561	TV-43	2030	TV24183	1104
TR-53	2030	TR 1083-71	2009	TR2327443	2016	TSZ9-1	562	TV43	2009	TV-24191	1104
TR-55	2017	TR 1083-72	2009	TR2327444	2016	TSZ12	563	TV-44	2023	TV24191	1104
TR-59	2041	TR 1083-73	2009	TR2327574	2041	TT25A495-0	2023	TV44	2023	TV24193	1104
TR59	2041	TR 1083-74	2016	TR2327723	2027	TT25A495-0-A	2023	TV-45	2030	TV24200	1104
TR-62	2009	TR 1180	1104	TR2327743	2023	TT25A495-0	2023	TV45	2030	TV24203	2016
TR67	2055	TR 4010-2	1617	TR2337011	1122	TT25A495-0-A	2023	TV-46	1617	TV24204	2016
TR-68	2055	TR 5328	2035	TR2337101	563	TT25A495-Y	2023	TV46	1617	TV24209	2016
TR68(IR)	2055	TR-8004	2009	TR2337103	563	TT25A495-Y-A	2023	TV-47	2023	TV24210	2016
TR-70	2058	TR 8004	2016	TR5320326	2016	TT25A9500	2023	TV-48	2058	TV24214	2023
TR70	2058	TR-8004-4	2016	TR228735045311	2016	TT25A9500(,25A950(Y))	TV48	TV48	1617	TV24215	2009
TR-75	563	TR 8004-4	2009	TR228735046011	2016	TT25A1015	2023	TV-50	2009	TV24216	2009
TR75	563	TR-8004-5	2016	TR228735048617	2016	TT25A1015(Y)	2023	TV50	2016	TV24221	1104
TR-76(IR)	2020	TR-8007	2023	TR228735048618	2016	TT25A1015(,25A1015(Y))	TV51	TV-51	2009	TV24224	562
TR76(IR)	2020	TR-8007(FISHER)	2023	TR228735120325	2035	TT25A1015G	2023	TV51	2030	TV24225	1114
TR-77	1104	TR-8010	2016	TR228736002003	1123	TT25A1015G	2023	TV-52	2009	TV-24232	1104
TR-77(IR)	2027	TR 8010	2009	TR228736002004	1123	TT25A1015G(,25A1015(Y))	TV52	TV52	2030	TV24233	1104
TR77(IR)	2027	TR-8014	1617	TR-4	1617	TT25C1627(Y)	2023	TV-53	1617	TV24234	1104
TR-80	2016	TR8014	1617	TR-4A	1617	TT25C1627(Y)	2009	TV53	2030	TV-24237	1101
TR80	2016	TR-8019	2027	TR-4A	1617	TT25C1627Y	2009	TV-54	2009	TV24237	1101
TR-83	2016	TR8019	2027	TR-4A	1617	TT25C1815	2009	TV54	2016	TV-24266	1104
TR83	2016	TR8020	2023	TR-4B	2009	TT25C1815G	2009	TV-55	2009	TV24266	1104
TR-86	2009	TR-8021	2030	TR-4B	1617	TT25C1815G(,25C1815(Y))	2009	TV55	2016	TV24273	1123
TR86	2009	TR 8021	1617	TR-4R	2016	TT25C2458G	2009	TV-56	1617	TV24278	1104
TR-87	2030	TR 8023	2030	TR-4R	1617	TT25C2458G(,25C2458(Y))	2009	TV56	1617	TV24281	1617
TR-93	2055	TR 8024	2030	TR-4A	1617	TT25C2458G(,25C2458(Y))	2009	TV57	2023	TV24282	1104
TR93	2055	TR 8025	2009	TR-4B	1617	TT25C2458G(,25C2458(Y))	2009	TV57	2016	TV24283	1104
TR-95	562	TR 8025	2009	TRAPLC711	1617	TT25D843Y	2020	TV-58	2009	TV24285	1171
TR95	2016	TR 8026	2023	TRAPLC871	1617	TT66X26	1104	TV58	2016	TV24292	1104
TR-95(B)	562	TR 8027	2035	TRAPLC1013	2017	TT204	2016	TV-59	2030	TV24298	1104

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TVL-06G23	1104	TVS25C644	2016	TVS-D51K	1104	TVSQA01-07R	564	TVS-TC009M21/3	1101	TX-135	2030	U0A	1104
TVL-06GG23	1104	TVS-25C645	2016	TVSD51K	1104	TVSQA01-12S	563	TVS-TC0-09M21/3	1101	TX135	2030	U1	1104
TVL-06H	1104	TVS25C645	2016	TVS-DS-1M	1104	TVSQA01-15S	564	TVS-TC0.09M11/10	1104	TX-138	1617	U1S102	1104
TVR06K	1104	TVS-25C645A	2016	TVS-D51M	1104	TVSQA105R	565	TVS-TC-0.09M21/3	1101	TX138	2030	U1Z	1104
TVL-1B	1104	TVS25C645A	2016	TVSD5-1M	1104	TVSQA112R1	563	TVS-TC0.09M21/3	1101	TX-140	2030	U2	1104
TVR1B	1104	TVS-25C645B	2016	TVSD51M	1104	TVSQA112R1	563	TVSUC78M12H2	1771	TX140	2030	U2A	1104
TVR1D	1104	TVS25C645B	2016	TVS-D52K	1104	TVSQA112RN-2	563	TVSUF2	1104	TX-141	1617	U2N474A	1617
TVR1D(TP)	1104	TVS-25C645C	2016	TVSD5-2K	1114	TVSQA205AB	565	TVS-UFS0-1	1104	TX141	2016	U2TA406	2068
TVR-1G	1104	TVS25C645C	2016	TVSD52K	1114	TVSQA205E	565	TVSUFSD-1	1104	TX-145	1067	U2TA408	2068
TVR1G	1104	TVS25C647	2041	TVSD52M	1114	TVSQA205GV3	565	TVSUFSD-1F	1144	TXB3518MA	2023	U2TB406	2068
TVR1G(TP)	1104	TVS-25C683	2016	TVSEA01-07R	564	TVSQB01-15ZB	564	TVSUFSD1F	1104	TXZ4206	2009	U2TB408	2068
TVR1J	1104	TVS25C683	2016	TVSEM1	1104	TVSQB112	563	TVSUC78M12H2	1771	TY25A933	2023	U2TD410	2068
TVR1J(TP)	1104	TVS-25C683V	2016	TVSEM1Z	1102	TVSQB115ZB	564	TVSUC339C	1712	TY25A933(,25A933(S))		U2TG406	2068
TVR-2	1104	TVS-25C684	2016	TVSEM1ZV	1102	TVSQB115ZBV	564	TVSUPD4011BC	2411		2023	U2TG408	2068
TVR2B	1104	TVS25C684	2016	TVSEQA01-05T	565	TVSRA1A	1122	TVSUPD4013BC	2413	TY25A1198E	2023	U15B	1114
TVR-2D	1104	TVS-25C762	2016	TVSEQA01-06S	561	TVSRA-1Z	1104	TVSW04M	1173	TY25A1198E(,25A1198		U15C	1114
TVR2D	1104	TVS25C762	2016	TVSEQB01-12	563	TVSRA1Z	1104	TVSWF2	2035	(S))	2023	U15E	1114
TVR2G	1104	TVS-25C828	2009	TVSEQB01-15	564	TVSRD4R7	565	TVSWZ061	561	TY25A1198S	2023	U15G	1114
TVR2J	1104	TVS25C828	2009	TVSEQB01-15Z	564	TVSRD4R7EB	565	TVSZB	563	TY25C1652(Q)	2009	U15J	1114
TVS001-065B	561	TVS25C828(Q)	2009	TVSERB-06B	1104	TVSRD4R7EB2	565	TVSZB1-6	561	TY25C1652Q	2009	U33N	1104
TVS010D1	1104	TVS-25C828A	2009	TVSERB12-02	1114	TVSRD4.7EB2	565	TVS-ZB1-11	563	TY25C1652Q(,25C1652		U117	2035
TVS-0A70	1123	TVS25C828A	2009	TVSERB24-04D	1104	TVS-RD5A	565	TVSZB1-11	563	(R))	2009	U119	1114
TVS0A70	1123	TVS25C828P	2009	TVSERB24-06	1104	TVSRD5A	565	TVS-ZB1-15	564	TY25C1652R	2009	U120	1114
TVS-0A71	1144	TVS-25C828Q	2009	TVSERB24-06A	1104	TVSRD5AK	565	TVSZB1-15	564	TY25C1740	2009	U197	2035
TVS0A71	1104	TVS25C828Q	2016	TVSERB24-06B	1104	TVSRD5R1EB2	565	TW3	1102	TY25C1740(,25C1740(S))		U212	1104
TVS-0A82G	1123	TVS25C828R	2009	TVSERC0508	1114	TVSRD5R1JB3	565	TW5	1104		2009	U212-25	1104
TVS-0A90	1123	TVS25C829(B)	2009	TVSERC0510	1114	TVSRD6.2EB1	561	TW10	1104	TY-107-4	1617	U213	1104
TVS0A90	1123	TVS25C829B	2016	TVSERC0510V	1114	TVSRD6.2EB1Z	561	TW20	1104	TY-107-12	1617	U214	1104
TVS-0A91	1123	TVS-25C948	2016	TVSE51	1104	TVSRD6.2EB3	561	TW30	1104	TZ4A326	1104	U235	2035
TVS0A91	1123	TVS25C968	1617	TVSE5A06	1173	TVSRD6.2FB2	561	TW40	1104	TZ4C254	1104	U361	1114
TVS-0A95	1123	TVS25C1129A	2058	TVS-ET1P	1104	TVSRD9AL	562	TW50	1104	TZ4C284	1104	U-422	1104
TVS1FSD-1	1104	TVS25C1629A	2055	TVSEU2	1104	TVSRD12EB1	563	TW60	1104	TZ4E254	1104	U460A	2016
TVS1N741A	563	TVS25C5640	2023	TVSEU2A	1104	TVSRD12EBH	563	TW-80	1114	TZ4.7	565	U460A,B	2016
TVS1N741H	563	TVS3DL2	1104	TVS-FR1MD	1104	TVSRD12EBM	563	TW80	1104	TZ5.1	565	U460B	2016
TVS1N4148	1122	TVS10D	1104	TVS-FR-1P	1104	TVSRD13AL	563	TW-100	1114	TZ6.2	561	U535A	2058
TVS1N4148TE	1122	TVS10D1	1104	TVS-FR1P	1104	TVSRD15EB2	564	TW100	1114	TZ8.2	562	U535A,B	2016
TVS1N4148V	1122	TVS10D2	1104	TVSFR1P	1104	TVSRD15FM	564	TWV	1102	TZ9	562	U535B	2058
TVS1N4150V	1122	TVS-10D8	1104	TVS-FR-1P(FRTP)	1104	TVSRF1	1104	TX1N645	1104	TZ9.1	562	U535C	1617
TVS1P20	1104	TVS10D8	1104	TVS-FR1PC	1104	TVSRF-1A	1104	TX1N647	1104	TZ9.1A	562	U535M	1617
TVS1P80	1114	TVS10DC4	1104	TVSFR1PC	1104	TVSRF1A	1104	TX1N3190	1104	TZ9.1B	562	U1178	2035
TVS-1518	2016	TVS10DC4R	1104	TVSFR2-02	1104	TVSRGPT0J	1104	TX1N3191	1104	TZ9.1C	562	U1181	2035
TVS15954	1122	TVS10E1	1104	TVSFR2-02C	1104	TVSRH-1	1104	TX-100-1	2030	TZ9.1D	562	U1285	2035
TVS-151211	1122	TVS10E2	1104	TVSFR2-06	1114	TVSRH1	1104	TX100-1	1617	TZ12	563	U1323	2035
TVS151850	1104	TVS10E4	1104	TVSFR-2M	1104	TVSRH1M	1104	TX-100-2	2030	TZ12A	563	U1324	2035
TVS-151893	1141	TVS25C208	1617	TVS-FR2M	1104	TVSRH1S	1104	TX100-2	1617	TZ12B	563	U1420	2035
TVS-151904	1104	TVS25C562	1617	TVS-FR2P	1104	TVSRH1SV	1104	TX100-3	1617	TZ12C	563	U1421	2035
TVS151906	1104	TVS25C645	1617	TVS-FR2PC	1114	TVSRM1	1104	TX100-4	2030	TZ15	564	U1422	2035
TVS-151922	1141	TVS30D1	1114	TVSFR2PC	1104	TVSRM1Z	1104	TX-101-8	2030	TZ15A	564	U1585E	1617
TVS151950	1104	TVS-185D	1104	TVS-FR10	1104	TVSRM1Z(,RM1Z)	1104	TX-101-9	2030	TZ15B	564	U1585F	1617
TVS152076	1122	TVS185D	1104	TVS-FR1N	1104	TVSRM1ZM	1104	TX101-9	2030	TZ15C	564	U1585F,H	2016
TVS-25C645A	1617	TVS550	1104	TVS-FR-1P	1104	TVSRM1ZM(,RM1Z)	1104	TX-101-12	1617	TZ81	2016	U1585G	1617
TVS-25288A	2016	TVS-828A	1617	TVS-FR10	1114	TVSRM1ZMV	1104	TX101-12	1617	TZ82	2016	U1585H	1617
TVS25A543	2023	TVS828A	1617	TVS-FU1N	1104	TVSRM2C	1114	TX-102-1	2009	TZ543	2023	U1715	2035
TVS-25A564	2023	TVS-1303	2023	TVS-FU1N	1104	TVSRM10	1104	TX102-1	1617	TZ-551	2023	U1837E	2035
TVS25A564	2023	TVS-1850	1144	TVS-FUIN	1104	TVSRM10B	1114	TX102-2	1617	TZ551	2023	U1916	2035
TVS-25A564A	2023	TVS2406M	1104	TVSGP2-354	1122	TVSRM10M	1114	TX-107-1	1617	TZ552	2023	U1994E	2035
TVS25A564A	2023	TVS81202	1104	TVS-HFSD1Z	1104	TVSRM10MV	1114	TX107-1	1617	TZ1029-01	2055	U2400-03	1104
TVS25A564C	2023	TVS801-02	1104	TVS-HF-SD-12	1104	TVSRMP5020	1104	TX-107-3	2016	TZ1151	2016	U2848-1	1617
TVS-25A564P	2023	TVS8012-2	1122	TVSHZ5C1	565	TVSRU2AM	1104	TX107-3	1617	TZ1152	2016	U478M05C	1770
TVS25A564P	2023	TVS80102	1102	TVSHZ5CIDT	565	TVSRU2AN	1104	TX-107-4	1617	TZ1153	1122	U478M05UC	1770
TVS25A564Q	2023	TVS80102V	1102	TVSIS1850	1104	TVSRU2M	1104	TX107-4	1617	TZ1160	1617	U478M12	1771
TVS-25C185A	2016	TVS824-06D	1114	TVSJA1200	2009	TVSRU3AN	1104	TX-107-5	1617	TZ1180	1617	U478M12C	1771
TVS-25C206	2016	TVS81201	1104	TVSJA141A	1104	TVS-51B02-03C	1104	TX107-5	1617	TZ1182	1617	U478M12CKC	1771
TVS-25C208	2016	TVS81202	1102	TVSJA141AM	1104	TVS-51B02-03CR	1104	TX-107-6	1617	TZ7000	2030	U478M12CKD	1771
TVS-25C208A	2016	TVS81202V	1102	TVSKA1200	2016	TVS51R8D	1104	TX107-6	1617	TZ7001	2030	U478M12UC	1771
TVS-25C287A	2016	TVS81204	1114	TVS-KC2-LP	1104	TVS51R20	1122	TX-107-10	1617	TZ7002	2009	U478M15C	1772
TVS-25C313	2016	TVS82404C	1104	TVS-KC2CP12/1	1104	TVS53-2	1104	TX107-10	1617	TZ7003	2009	U478M15CKD	1772
TVS-25C429A	2016	TVS82404D	1104	TVS-KC2DP12/2	1104	TVS53G4	1114	TX-107-12	2016	TZ7500	2023	U478M15CKD	1772
TVS-25C446	2016	TVS82804AD	1104	TVS-KC20P12/1	1104	TVS54C	1104	TX107-12	1617	TZ7501	2023	U478M15UC	1772
TVS-25C538	1617	TVS84302	1104	TVSL78M12RL	1771	TVS534	1122	TX-107-16	1617	TZ7503	2023	U4224DM	1711
TVS-25C538A	1617	TVS84304	1104	TVS-MA242C	1104	TVSSA-2	1104	TX107-16	1617	TZB9.1A	562	U4324DC	1711
TVS25C538A	1617	TVS84304V	1104	TVSM115RC	1104	TVSSA-2B	1114	TX-108-1	2009	TZB9.1B	562	U4324PC	1711
TVS-25C562	2016	TVS8AX-13	1122	TVSM1155C	1104	TVSSA2B	1104	TX108-1	1617	TZB12A	563	U4339ADC	1712
TVS25C562	2016	TVS8AX13	1122	TVSMR1C	1114	TVSSA2H	1114	TX-112-1	1617	TZB12B	563	U4555	1723
TVS-25C563	2016	TVS8B2A	1104	TVSMR-1M	1114	TVSSB-20	1114	TX112-1	1617	TZB15A	564	U4555IC	1723
TVS25C563	2016	TVS8B10	1104	TVS-0A70	1123	TVS-SD-1	1104	TX-119-1	1617	TZB15B	564	U4555TC	1723
TVS-25C563A	2016	TVSC0410	1114	TVSOA71	1104	TVSSD1A	1104	TX120	2016	TZPD4.7	565	U4556DC	1728
TVS-25C564	2023	TVSC0510	1114	TVS-OA81	1123	TVS-SD-1B	1114	TX121	2023	TZPD5.1	565	U4556DM	1728
TVS25C564	2023	TVSC1255H	2030	TVS-OA90	1123	TVS-SD1B	1114	TX122	2023	TZPY4.7	565	U4556PC	1728
TVS25C564-O	2023	TVSC2406M	1104	TVSOA90	1123	TVSSD-1Y	1104	TX-122-1	1104	TZPY5.1	565	U4723CA	1740
TVS25C564O	2023	TVSC0510	1114	TVS-OA91	1123	TVSSD-14	1104	TX-124	2030	U0-5E	1144	U4723CJ	1740
TVS25C564R	2023	TVS-CS1255H	1617	TVS-OA95	1122	TVSSIR80	1104	TX124	2030	U05-E	1114	U4723CN	1740
TVS-25C582	2030	TVSCS1255H	2030										

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
UA741A	007	UDZ8712	563	UPC1238V	703	US7447A	1805	UZ-12B	563	V19E-Z	1104	VB100	1104
UA741CJG	007	UDZ8715	564	UPC1458C	038	US7490A	1808	UZ12B	563	V30J	1114	VB300	1104
UA741CP	007	UE51001	1101	UPC2002	703	US7490J	1808	UZ-12B(AU)	563	V30N	1104	VB400	1104
UA741CV	007	UF01	1104	UPC2002V	703	USAF515E5045M	2023	UZ13B	563	V50A260-36	1123	VB500	1104
UA741DC	007	UF-1	1104	UPC4001C	2401	USAF515E5046M	2023	UZ15	564	V50A260-36(GE-DIO)	1123	VB600	1104
UA741HM	007	UF-1A	1104	UPC4066	2466	USAF516E5047M	2023	UZ91F	562	V50A260-36(SI-DIO)	1123	VB600A	1104
UA741TC	007	UF1A	1104	UPC4558	038	USAF516E5048M	2023	UZ3019	562	V74	1123	VBH600	1104
UA1458CP	038	UF-1V	1104	UPC4558C	038	USN-7490A	1808	UZ3019A	562	V115	1123	VC6E	1104
UA1458CTC	038	UF-2	1104	UPC4558D	038	UT 905	1101	UZ3019B	562	V117	1123	VCR50037	1122 N7
UA1458P	038	UF2	1104	UPC7805	1770	UT 910	1104	UZ3022	563	V118	1123	VCR50038	1122 N9
UA1458TC	038	UF#001	1101	UPC7805H	1770	UT 920	1102	UZ3022A	563	V119	1123	VD1E1H11-1	1104
UA1488	2520	UF4002	1104	UPC7812H	1771	UT 940	1103	UZ3022B	563	V119	1123	VD6	1104
UA1488D	2520	UF#003	1102	UPC14305H	1770	UT11	1104	UZ3024	564	V120PH	1123	VD10E1F111-1	1104
UA1488DC	2520	UF4004	1103	UPC14312	1771	UT12	1143	UZ3024A	564	V120RH	1123	VD10E1LF	1104
UA1488P	2520	UF4005	1104	UPC14312H	1771	UT13	1143	UZ3024B	564	V126	1123	VD11	1123
UA1488PC	2520	UF4006	1114	UPC14315	1772	UT14	1104	UZ8709	562	V129	1123	VD12	1123
UA1489	2521	UF4007	1114	UPC14315D	1772	UT15	1104	UZ8712	563	V130LA10	570	VD13	1123
UA1489APC	2521	UF-SD1	1123	UPC14315H	1772	UT16	1104	UZ8715	564	V130LA10A	570	VD1150M	1122
UA1489D	2521	UFSD-1	1104	UPD4001BC	2401	UT17	1104	UZ8809	562	V130LA20A	568	VD12C	1104
UA1489DC	2521	UFSD-1A	1104	UPD4001C	2401	UT18	1104	UZ8812	563	V135	1123	VD121C	1104
UA1489P	2521	UFSD-1B	1114	UPD4011	2411	UT21	1104	UZ8815	564	V139	1123	VD-1121	1122
UA1489PC	2521	UFSD1F	1104	UPD4011B	2411	UT22	1104	UZ8815	564	V143	1123	VE0B	1173
UA1489PCQR	2521	UFSD-1B	1114	UPD4011BC	2411	UT23	1104	UZL-4.7	565	V146	1123	VF1E	1173
UA2002	703	UG3C	1104	UPD4011BCM	2411	UT24	1104	UZL-5.1	565	V152	1123	VE28	1173
UA2901PC	1712	UG-1003	1171	UPD4011C	2411	UT25	1104	UZL-6.2	561	V154	1123	VE47	1173
UA2902	1711	UG-1004	1173	UPD4013BC	2413	UT26	1104	UZL-9.1	562	V159	1123	VE48	1173
UA3303PC	1711	UG1888	1122	UPD4013C	2413	UT27	1104	UZL-12	563	V160	1123	VFA2745C	1104
UA3403DC	1711	UGH7812	1771	UPD4017C	2417	UT111	1104	UZL-15	564	V166	1123	VHD1N34A111-1	1123
UA3403PC	1711	ULN-2151M	007	UPD4049C	2449	UT112	1104	UZL-115	563	V169	1123	VHD1N34A111-1	1123
UA4188DC	2520	ULN-2156M	007	UPD4049UBC	2449	UT113	1104	UZL-12B	563	V172	1123	VHD1N34A111-1	1123
UA4558T	038	ULN-2159M	007	UPD4066	2466	UT114	1104	V0-3C	1114	V177	1123	VHD1N34A111E	1123
UA7508A	1770	ULN-2171M	007	UPD4066B-1	2466	UT115	1104	V0-6B	1104	V183	1123	VHD1N34A111-1	1123
UA7805	1770	ULN-2173M	007	UPD4066BC	2466	UT116	1104	V0-6C	1104	V188	1123	VHD1N40A111-1	1123
UA7805A	1770	ULN-2177M	007	UPD4066BP	2466	UT117	1104	V0-6C-401	1104	V191	1123	VHD1S34A111-1	1123
UA7805C	1770	ULN-2709CM	007	UPD4066C	2466	UT118	1114	V0-9C	1114	V210C	1123	VHD1S34A111E	1123
UA7805CKC	1770	ULN-2709M	007	UPD4066G	2466	UT120	1114	V01C	1143	V220	1123	VHD1S34A111-1	1123
UA7805CU	1770	ULN-2723A	1740	UPD4164-3	2506	UT211	1144	V01E	1144	V221	1123	VHD1S34A111-1	1123
UA7805UC	1770	ULN3701Z	703	UPD7805	1770	UT212	1144	V01G	1114	V222	1123	VHD1S34A111-1	1123
UA7805UV	1770	ULS-2151M	007	UPI706	1617	UT213	1144	V03-C	1114	V227D-D1	1104	VHD1S34A111-1	1123
UA7812	1771	ULS-2156M	007	UPI706A	1617	UT221	1104	V03C	1114	V297	1123	VHD1S34A111-1	1123
UA7812C	1771	ULS-2159M	007	UPI706B	1617	UT222	1104	V03E	1114	V300	1123	VHD1S34A111-1	1123
UA7812CKC	1771	ULS-2171M	007	UPI718A	1617	UT223	1104	V03G	1114	V331	1123	VHD1S34A111-1	1123
UA7812CU	1771	ULS-2173M	007	UPI956	2030	UT224	1104	V03J	1114	V331X	1104	VHD1S2076-1	1122
UA7812UC	1771	ULS-2177M	007	UPI1613	2030	UT225	1104	V05B	1114	V332	1143	VHD1S223011E	1104
UA7812UV	1771	ULS-2723A	1740	UPI1711	2030	UT226	1104	V05E	1104	V334	1143	VHD1S511911-1	1122
UA7815	1772	ULX3701Z	703	UPI2217	2030	UT228	1104	V06	1104	V350	1114	VHD1S511911E	1122
UA7815C	1772	UM3482	1797	UPI2218	2030	UT229	1104	V06(DIO)	1104	V405	1123	VHD1S1885-1	1104
UA7815CKC	1772	UM3482A	1797	UPI2222	1617	UT231	1104	V06(RECT)	1104	V409	1123	VHD1S1885-R-1	1122
UA7815CU	1772	UO5E	1114	UPI2222B	1617	UT232	1104	V06-C	1104	V410A	1123	VHD1S1885-R-1	1122
UA7815UC	1772	UO5ES	1114	UPI2222P	2009	UT233	1104	V06-E	1114	V415	1123	VHD1S1885-R-1	1122
UBFY11	2016	UO5G	1104	UPI4046	1617	UT234	1143	V06-G	1114	V417	1123	VHD1S1885-R-1	1122
UC20	2035	UPI706	2016	UPI4046-46	1617	UT235	1144	V06A	1104	V435A	1123	VHD1S1885-R-1	1122
UC78M12H2	1771	UPI706A	2016	UPI4047	1617	UT236	1143	V06B	1114	V442	1104	VHD1S1885-R-1	1122
UC100	2035	UPI706B	2016	UPI4047-46	1617	UT242	1143	V06B X4	1104	V600	1123	VHD1S1885-R-1	1122
UC105	2035	UPI2217	2017	UPT111	2030	UT244	1144	V06C	1102	V622P	030	VHD1S1885-R-1	1122
UC110	2035	UPI2218	2017	UPT112	2030	UT249	1143	V06C(POWER-RECTIFIER)	V417	V721	2023	VHD1S1885-R-1	1122
UC115	2035	UPI2222	2009	UPT113	2030	UT251	1143	V06C5	1104	V7e1	2023	VHD1S1885-R-1	1122
UC120	2035	UPI2222B	2009	UR105	1104	UT252	1143	V06C5	1104	V781	2023	VHD1S1885-R-1	1122
UC125	2035	UPI4046	2017	UR110	1104	UT254	1144	V06E	1104	V783	2023	VHD1S1885-R-1	1122
UC155	2035	UPI4046-46	2009	UR115	1104	UT261	1143	V06E	1104	V783	2023	VHD1S1885-R-1	1122
UC201	2035	UPI4047	2017	UR120	1104	UT262	1143	V06G	1114	V1112	1123	VHD1S1885-R-1	1122
UC210	2035	UPI4047-46	2009	UR125	1104	UT264	1143	V07E	1114	V1650E-1	2035	VHD1S1885-R-1	1122
UC220	2035	UPB201C	1801	UR205	1141	UT345	1114	V07G	1114	V1650E-4	2035	VHD1S1885-R-1	1122
UC241	2035	UPB201D	1801	UR210	1143	UT2005	1141	V07J	1114	V1833E	2035	VHD1S1885-R-1	1122
UC547C	1617	UPB215C	1801	UR215	1143	UT2020	1143	V08E	1114	V3074A21	1104	VHD1S1885-R-1	1122
UC588	2035	UPB215D	1801	UR220	1143	UT2020	1143	V08J	1114	V9446-4	1104	VHD1S1885-R-1	1122
UC701	2035	UPB219C	1808	UR225	1144	UT2040	1143	V09E	1104	V9646-4	1104	VHD1S1885-R-1	1122
UC703	2035	UPB219D	1808	US1020	1122	UT3005	1141	V09-E(CENT.)	1101	V10158	1104	VHD1S1885-R-1	1122
UC714	2035	UPB234C	1822	US1020M	1122	UT3010	1143	V09-G	1104	V10916-1	1123	VHD1S1885-R-1	1122
UC734	2035	UPB234D	1822	US1040	1122	UT3020	1143	V09E	1104	V10916-3	1123	VHD1S1885-R-1	1122
UC734E	2035	UPB235D	1802	US1040M	1122	UT3040	1144	V09ETA	1104	V1189-1	1104	VHD1S1885-R-1	1122
UC750	2035	UPB2047D	1805	US1060	1122	UZ1-4.7	565	V09E-Z	1104	V15920	1104	VHD1S1885-R-1	1122
UC751	2035	UPB7400C	1801	US1060M	1122	UZ1-5.1	565	V09G	1104	V27001	1104	VHD1S1885-R-1	1122
UC752	2035	UPB7404C	1802	US1090	1122	UZ1-6.2	561	V09G-F2	1104	V50260-10	1122	VHD1S1885-R-1	1122
UC753	2035	UPB7447C	1805	US1090M	1122	UZ1-9.1	562	V09G-TA	1104	V50260-16	1123	VHD1S1885-R-1	1122
UC756	2035	UPC78M05	1770	US7051A	565	UZ1-11.5	563	V0G	1104	V50260-36	1122	VHD1S1885-R-1	1122
UC1100	2023	UPC78M12	1771	US7091	562	UZ1-12	563	V11-CA	1114	VANV-1	1104	VHD1S1885-R-1	1122
UC2136	2035	UPC78M12H2	1771	US7120B	563	UZ1-15	564	V11N	1104	VAR	1122	VHD1S1885-R-1	1122
UC2138	2035	UPC143-05	1770	US7150	564	UZ4.7	565	V15C200/80-V&	1104	VAR-1R2	1122	VHD1S1885-R-1	1122
UC2139	2035	UPC151C	007	US7400A	1801	UZ5.1	565	V15C200/80-VF	1104	VAR1S-5	1104	VHD1S1885-R-1	1122
UC2148	2035	UPC177C	1712	US7400J	1801	UZ5.1B	565	V17L	1104	VB-11	1104	VHD1S1885-R-1	1122
UC2149	2035	UPC215C	1801	US7401A	1801	UZ6.2	561	V19	1104	V3020*	1617	VHD1S1885-R-1	1122
UC7933	1771	UPC251C	038	US7401J	1801	UZ6.2B	561	V19B	1104	V3020*	1617	VHD1S1885-R-1	1122
UCD125	1122	UPC324C	1711	US7404A	1802	UZ6.2B	561	V19C	1104	V3020*	1617	VHD1S1885-R-1	1122
UCD227	1122	UPC339C	1712	US7404J	1802	UZ9B	562	V19CS	1104	V3020*	1617	VHD1S1885-R-1	1122
UD58	1114	UPC451C	1711	US7408A	1822	UZ9.1	562	V19CS5	1104	V3020*	1617	VHD1S1885-R-1	1122
UDZ8709	562	UPC741C	007	US7408J	1822	UZ9.1							

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VM30241	1617	VS2SA1015Y/1E		VS25C1815GW-1		VZ-052D	565	W09B	1102	WA-050D	565	WB-088B	562
VM30242	1617	(,2SA1015(Y)	2023	(,25C1815(Y)	2009	VZ-052E	565	W09C	1104	WA-052	565	WB-088C	562
VM-PH9D522/1	1104	VS2SA1015Y/1E		VS25C1815OW-1	2009	VZ-061A	561	W1-050	565	WA-052A	565	WB-088D	562
VM-PH11D522/1	1104	(,2SA1015)	2023	VS25C1815YW-1	2009	VZ-061B	561	W1-052	565	WA-052B	565	WB-090	562
VMPH11D522-1	1104	VS2SA1015Y/2E	2023	VS25C1815YW-1		VZ-061C	561	W1-061	561	WA-052C	565	WB-090A	562
VM-PH9D522/1	1104	VS2SA1015YW-1	2023	(,25C1815(GR	2009	VZ-061D	561	W1-063	561	WA-052D	565	WB-090B	562
VM-TC02P11/2	1104	VS2SB324	1617	VS25C1815YW-1		VZ-061E	561	W1-065	561	WA-061	561	WB-090C	562
VM-TC02P11/2	1104	VS-25C206	2016	(,25C1815(Y)	2009	VZ-063A	561	W1-088	562	WA-061A	561	WB-090D	562
VO1G	1101	VS25C206	1617	VS25C1815YW1E	2009	VZ-063B	561	W1-090	562	WA-061B	561	WB-092	562
VO3-G	1114	VS-25C208	2016	VS25C1826-Y1A	2020	VZ-063C	561	W1-092	562	WA-061C	561	WB-092A	562
VO3C	1143	VS25C208	1617	VS25C1827Y/1E	2020	VZ-063D	561	W1-094	562	WA-063	561	WB-092B	562
VO3G	1114	VS25C288A	1617	VS25C1855/-1	2058	VZ-063E	561	W1-115	563	WA-063A	561	WB-092C	562
VO6-C	1104	VS-25C324	1617	VS25C1906//1E	2016	VZ-085A	562	W1-120	563	WA-063B	561	WB-092D	562
VO6-G	1104	VS-25C324H	1617	VS25C1959Y/1E	2009	VZ-085B	562	W1-150	564	WA-063C	561	WB-094	562
VO-6A	1104	VS25C324H	1617	VS25C2001-M-1	2009	VZ-085C	562	W1A	2035	WA-063D	561	WB-094A	562
VO6A	1144	VS-25C371-R-1	2009	VS25C2002-K/A	2009	VZ-085D	562	W1L	1067	WA-065	561	WB-094B	562
VO-6B	1144	VS25C371-R-1	2009	VS25C2002-K1A	2009	VZ-085E	562	W1P	2035	WA-065A	561	WB-094C	562
VO-6C	1104	VS25C372-O/1E	2009	VS25C2002-K1A		VZ-090A	562	W1R	1122	WA-065B	561	WB-094D	562
VO6C	1104	VS25C372-Y/1E	2009	(,25C2002(K)	2009	VZ-090B	562	W1R(SCR)	1067	WA-065C	561	WB-115	563
VO-6C-401	1144	VS25C373//1E	2016	VS25C2002-K1A		VZ-090C	562	W2-050	565	WA-065D	561	WB-115A	563
VO6E	1104	VS25C373-//1E	2009	(,25C2002(L)	2009	VZ-090D	562	W2-061	561	WA-088	562	WB-115B	563
VO9-E	1144	VS25C373-G/-1	2009	VS25C2002-K1A		VZ-090E	562	W2-063	561	WA-088A	562	WB-115C	563
VO9C	1104	VS25C373G-1	2009	(,25C2002B)	2009	VZ-092A	562	W2-065	561	WA-088B	562	WB-115D	563
VO9G	1104	VS25C374-B-1	2016	VS25C2002-K1A		VZ-092B	562	W2-088	562	WA-088C	562	WB-120	563
VOG	1104	VS25C383-W/1E	2009	(,25C2002K)	2009	VZ-092C	562	W2-090	562	WA-088D	562	WB-120A	563
VPI30A20	570	VS25C394-O-1	2058	VS25C2120Y/-A	2009	VZ-092D	562	W2-092	562	WA-090	562	WB-120B	563
VR1B	1104	VS25C394-O-1	2009	VS25C2458-C/1E	2009	VZ-092E	562	W2-094	562	WA-090A	562	WB-120C	563
VR1D	1104	VS25C394-Y-1	2009	VS25C3299Y/-1	2020	VZ-094A	562	W2-115	563	WA-090B	562	WB-120D	563
VR1G	1104	VS25C454-B/1E	2009	VS25C3299Y/1E	2020	VZ-094B	562	W2-150	564	WA-090C	562	WB-150	564
VR1J	1104	VS25C454-B/1E(,25C454		VS25C1674Z/-1	2058	VZ-094C	562	W3D	1000	WA-090D	562	WB-150A	564
VR6 2	561	(B)	2009	VS25D467-C/-1	2009	VZ-094D	562	W4-050	565	WA-092	562	WB-150B	564
VR6.2A	561	VS25C454-C/1A	2009	VS25D476-C/-1	2020	VZ-094E	562	W4-052	565	WA-092A	562	WB-150C	564
VR6.2B	561	VS25C454-C/1E	2009	VS25D478-YL-ZE	2020	VZ47CH	565	W4-061	2016	WA-092B	562	WB-150D	564
VR9B	562	VS25C454-C/1E(,25C454		VS25D478YL2E	2020	VZ51CH	565	W4-063	561	WA-092C	562	WC-050	565
VR-9.1	562	(C)	2009	VS25D2271-1	1617	VZ62CH	561	W4-065	561	WA-092D	562	WC-050A	565
VR9.1	562	VS25C454-C/1E		VS25K49F-1	2035	VZ91CH	562	W4-088	562	WA-094	562	WC-050B	565
VR9.1A	562	(,25C454C)	2009	VS120	1104	VZ-115A	563	W4-090	562	WA-094A	562	WC-050C	565
VR9.1B	562	VS25C454-C/3A	2009	VS202	1104	VZ-115B	563	W4-092	562	WA-094B	562	WC-050D	565
VR11	563	VS-25C458	2009	VS-CS1255H	2030	VZ-115C	563	W4-094	562	WA-094C	562	WC-052	565
VR11A	563	VS25C458	2009	VSCS1255H	2030	VZ-115D	563	W4-115	563	WA-094D	562	WC-052A	565
VR12	563	VS25C458-C/1E	2009	VS-CS1255HF	2030	VZ-115E	563	W6-120	563	WA-098	562	WC-052B	565
VR12A	563	VS25C460B-1	2009	VSCS1256HG	2023	VZ-120A	563	W6-150	564	WA-098A	562	WC-052C	565
VR12B	563	VS-25C538	1617	VS-FR1	1104	VZ-120B	563	W7-120	563	WA0A-90	1122	WC-052D	565
VR-14	564	VS25C538	1617	VSFR1	1104	VZ-120C	563	W7-150	564	WA-26	1122	WC-061	561
VR15	564	VS-25C563	2016	VS-FR1P	1104	VZ120CH	563	W8	2016	WA-115	563	WC-061A	561
VR15A	564	VS-25C645	2016	VSFR1P	1104	VZ-120D	563	W8-050	565	WA-115A	563	WC-061B	561
VR15B	564	VS-25C645A	2016	VS-FR-1U	1104	VZ-120E	563	W8-052	565	WA-115B	563	WC-061C	561
VS-0A70	1123	VS25C645A	1617	VS-FR-1N	1104	VZ-145A	564	W8-061	561	WA-115C	563	WC-061D	561
VS-1	1104	VS-25C645B	2016	VSFT1N	1104	VZ-145B	564	W8-063	561	WA-115D	563	WC-063	561
VS1	1104	VS-25C645C	2016	VSG-20024	1104	VZ-145C	564	W8-065	561	WA-120	563	WC-063A	561
VS2SA495-O/1E	2023	VS-25C683	2016	VSH200A	1101	VZ-145D	564	W8-088	562	WA-120A	563	WC-063B	561
VS2SA495-O/-1	2023	VS-25C683Y	2016	VSH202A	1122	VZ-145E	564	W8-090	562	WA-120B	563	WC-063C	561
VS2SA495-O/1E	2023	VS-25C684	2016	VSH212A	1122	VZ-150A	564	W8-092	562	WA-120C	563	WC-063D	561
VS2SA495-Y/1E	2023	VS25C684	2016	VSH222A	1122	VZ-150B	564	W8-094	562	WA-120D	563	WC-065	561
VS2SA562-O/1E	2023	VS-25C687	2041	VSH242A	1122	VZ-150C	564	W8-115	563	WA-150	564	WC-065A	561
VS2SA562-O/1E	2023	VS25C717//1-1	2016	VSH252A	1122	VZ150CH	564	W8-120	563	WA-150A	564	WC-065B	561
VS2SA562-O/1E(,2SA562		VS25C732-VIF	2009	VSK120	1101	VZ-150D	564	W8-150	564	WA-150B	564	WC-065C	561
(O)	2023	VS25C733B-1	2016	VSK130	1101	VZ-150E	564	W9-050	565	WA-150C	564	WC-065D	561
VS2SA562-O/1E		VS25C735Y-1	2009	VSK140	1101	W/6A	1104	W9-061	561	WA-150D	564	WC-088	562
(,2SA562(O)	2023	VS-25C762	2016	VSK320	1114	W0005M	1173	W9-063	561	WA-161D	561	WC-088A	562
VS2SA562-Q/1E	2023	VS25C784R1F	2058	VSK330	1114	W-005	1171	W9-065	561	WB-050	565	WC-088B	562
VS2SA562-Q/1E		VS25C900U-1	2016	VSK340	1114	W005	1173	W9-088	562	WB-050A	565	WC-088C	562
(,2SA562(Q)	2023	VS25C945AP/-1	2009	VS-MA102	1104	W005L	1173	W9-090	562	WB-050B	565	WC-090	562
VS2SA562-Y/1E	2023	VS25C945AQ/-1	2009	VSOA70	1123	W005M	1173	W9-092	562	WB-050C	565	WC-090A	562
VS2SA562TO/-1	2023	VS25C945LK-1	2009	VS-PC02P11/2	1104	W0-6A	1122	W9-094	562	WB-050D	565	WC-090B	562
VS2SA562T-O/1E	2023	VS25C945LP-1	2009	VSPH9D522/1	1104	W0-6B	1102	W9-115	563	WB-052	565	WC-090C	562
VS2SA562T-Q/1E	2023	VS25C1166-O-1	2009	VSS6142GLB1E	1020	W0-61	561	W9-120	563	WB-052A	565	WC-090D	562
VS2SA673-B/1E	2023	VS25C1166Y-1	2009	VS-SD1	1104	W01	1173	W9-150	564	WB-052B	565	WC-092	562
VS2SA673-C/1A	2023	VS25C1172-1E	2055	VS-SD1B	1114	W01L	1173	W10	1617	WB-052C	565	WC-092A	562
VS2SA673-C/1E	2023	VS25C1174-1E	2055	VSSD1B	1104	W01M	1173	W14	2030	WB-052D	565	WC-092B	562
VS2SA673-C/1E(,2SA673		VS25C1213-C/1A	2009	VS-SD-1Z	1104	W02	1173	W16	2041	WB-061	561	WC-092C	562
(C)	2023	VS25C1213AC/1A	2009	VSSD1Z	1104	W02L	1173	W18	2020	WB-061A	561	WC-092D	562
VS2SA673-C/1E		VS25C1213AC1A	2009	VS-SD-13	1114	W02M	1173	W19	2027	WB-061B	561	WC-094	562
(,2SA673A(C)	2023	VS25C1335D/-1	2016	VS-TC0-2P11/2	1104	W03A	1104	W20	1617	WB-061C	561	WC-094A	562
VS2SA673A-B/1E	2023	VS25C1335D/1	2016	VS-TC02P11/2	1104	W03B	1102	W21	2023	WB-061D	561	WC-094B	562
VS2SA673A-C/1E	2023	VS25C1335D/-1	2016	VSTC02P11/2	1104	W03BTA	1104	W23	2016	WB-063	561		

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WC-120C	563	WD-150B	564	WEP152/552	1104	WEP773	2009	WEP2119	1723	WF-088B	562	WG-115A	563
WC-120D	563	WD-150C	564	WEP154	1101	WEP780	2020	WEP2119/955M	1723	WF-088C	562	WG-115B	563
WC-150	564	WD-150D	564	WEP155	1104	WEP780/291	2020	WEP2150	703	WF-088D	562	WG-115C	563
WC-150A	564	WD1012	1123	WEP156	1102	WEP784	2058	WEP2150/1232	703	WF-090	562	WG-115D	563
WC-150B	564	WE-050	565	WEP157	1103	WEP802	2035	WEP2272	2401	WF-090A	562	WG-120	563
WC-150C	564	WE-050A	565	WEP158	1104	WEP802/132	2035	WEP2272/4001B	2401	WF-090B	562	WG-120A	563
WC-150D	564	WE-050B	565	WEP158/116	1104	WEP828	2009	WEP2331	1740	WF-090C	562	WG-120B	563
WC14020	1104	WE-050C	565	WEP158A	1114	WEP829	2009	WEP2331/923D	1740	WF-090D	562	WG-120C	563
WC14027	1104	WE-050D	565	WEP159	1114	WEP838	2009	WEP3023	2020	WF-092	562	WG-120D	563
WC19865	1104	WE-052	565	WEP160	1114	WEP881	2020	WEP4000	1141	WF-092A	562	WG-150	564
WD001	1102	WE-052A	565	WEP164	1101	WEP906	2009	WEP4000/5800	1141	WF-092B	562	WG-150A	564
WD002	1102	WE-052B	565	WEP164/114	1101	WEP906/233	2009	WEP4001	1143	WF-092C	562	WG-150B	564
WD003	1104	WE-052C	565	WEP165A	1101	WEP907	2023	WEP4001/5801	1143	WF-092D	562	WG-150C	564
WD004	1102	WE-052D	565	WEP166	1101	WEP907/234	2023	WEP4002	1143	WF-094	562	WG-150D	564
WD005	1102	WE-061A	561	WEP166/115	1101	WEP908	2020	WEP4002/5802	1143	WF-094A	562	WG-599	1122
WD006	1102	WE-061B	561	WEP167	1104 N5	WEP908/241	2020	WEP4004	1144	WF-094B	562	WG-713	1122
WD007	1102	WE-061C	561	WEP168	1101	WEP910	2009	WEP4004/5804	1144	WF-094C	562	WG713	1122
WD008	1102	WE-061D	561	WEP168/120	1101	WEP910/289	2009	WEP4008/5809	1114	WF-094D	562	WG-713C	1122
WD009	1102	WE-063	561	WEP169	1104 N7	WEP911	2023	WEP4011B	2411	WF1	2035	WG714	1122
WD010	1102	WE-063A	561	WEP170	1114	WEP911/290	2023	WEP4011B/4011B	2411	WF2	2035	WG1010	1122
WD011	1102	WE-063B	561	WEP170/125	1114	WEP911/290A	2023	WEP4013B	2413	WF-100B	563	WG-1010A	1122
WD012	1102	WE-063C	561	WEP173	1104	WEP920	2035	WEP4013B/4013B	2413	WF-100C	563	WG1010A	1122
WD013	1103	WE-063D	561	WEP175	1104	WEP920/312	2035	WEP4066B/4066B	2466	WF-100D	563	WG1010B	1122
WD014	1104	WE-065	561	WEP177	1122	WEP924	2009	WEP5457	1020	WF-115	563	WG1012	1122
WD015	1103	WE-065A	561	WEP243	2030	WEP924/319	2009	WEP5457/5457	1020	WF-115A	563	WG1012	1122
WD-050	565	WE-065B	561	WEP261/261	2068	WEP925	1122	WEP6097	1000	WF-115B	563	WG1014A	1122
WD-050A	565	WE-065C	561	WEP371	2009	WEP925/519	1122	WEP6097/5633	1000	WF-115C	563	WG1021	1122
WD-050C	565	WE-065D	561	WEP372	2009	WEP933	007	WEP6240	1067	WF-115D	563	WGOA-90	1122
WD-052	565	WE-088	562	WEP373	2009	WEP933/941M	007	WEP6240/5452	1067	WF-120	563	WH-061	561
WD-052A	565	WE-088A	562	WEP380	2009	WEP949	705	WEP6242	1067	WF-120A	563	WH-061A	561
WD-052B	565	WE-088B	562	WEP394	2009	WEP949/1155	705	WEP6242/5454	1067	WF-120B	563	WH-061B	561
WD-052C	565	WE-088C	562	WEP403	2009	WEP950	2417	WEP6243	1067	WF-120C	563	WH-061C	561
WD-052D	565	WE-088D	562	WEP454	2009	WEP950/4017	2417	WEP6243/5455	1067	WF-120D	563	WH-061D	561
WD-061	561	WE-090	562	WEP458	2009	WEP953	1114	WEP6244	1020	WF-150	564	WH-063	561
WD-061A	561	WE-090A	562	WEP460	2009	WEP954	1114	WEP6244/5456	1020	WF-150A	564	WH-063A	561
WD-061B	561	WE-090B	562	WEP495	2023	WEP956	2058	WEP6304	1101	WF-150B	564	WH-063B	561
WD-061C	561	WE-090C	562	WEP535	2016	WEP956/229	2058	WEP6304/507	1101	WF-150C	564	WH-063C	561
WD-061D	561	WE-090D	562	WEP535/107	2016	WEP966L/966	1771	WEP6320	1067	WF-150D	564	WH-063D	561
WD-063	561	WE-092	562	WEP536	2009	WEP1050	1171	WEP6320/5400	1067	WF-260	562	WH-065	561
WD-063A	561	WE-092A	562	WEP537	2009	WEP1051	1171	WEP6321	1067	WF-050A	565	WH-065A	561
WD-063B	561	WE-092B	562	WEP538	1617	WEP1051/166	1171	WEP6321/5401	1067	WF-050B	565	WH-065B	561
WD-063C	561	WE-092C	562	WEP564	2023	WEP1053	1173	WEP6322	1067	WF-050C	565	WH-065C	561
WD-063D	561	WE-092D	562	WEP568	2016	WEP1053/168	1173	WEP6322/5402	1067	WF-050D	565	WH-065D	561
WD-065	561	WE-094	562	WEP502	565	WEP1060	1122	WEP6323	1067	WF-052	565	WH-088	562
WD-065A	561	WE-094A	562	WEP604	563	WEP1061	1122	WEP6323/5403	1067	WF-052A	565	WH-088A	562
WD-065B	561	WE-094B	562	WEP607	564	WEP1061/178MP	1122	WEP6324	1067	WF-052B	565	WH-088B	562
WD-065C	561	WE-094C	562	WEP633	2009	WEP1062	1122	WEP6324/5404	1067	WF-052C	565	WH-088C	562
WD-065D	561	WE-094D	562	WEP634	2009	WEP1062/177	1122	WEP7400	1801	WF-052D	565	WH-088D	562
WD-088	562	WE-115	563	WEP644	2016	WEP1065	1185	WEP7400/7400	1801	WF-061	561	WH-090	562
WD-088A	562	WE-115A	563	WEP704	2041	WEP1082	1104	WEP7401	1801	WF-061A	561	WH-090A	562
WD-088B	562	WE-115B	563	WEP704/130	2041	WEP1083	1104	WEP7401/7401	1801	WF-061B	561	WH-090B	562
WD-088C	562	WE-115C	563	WEP705	1617	WEP1102	565	WEP7408	1822	WF-061C	561	WH-090C	562
WD-088D	562	WE-115D	563	WEP706	1617	WEP1102/5069	565	WEP7408/7408	1822	WF-061D	561	WH-090D	562
WD-090	562	WE-120	563	WEP708	2058	WEP1103	565	WEP7490	1808	WF-063	561	WH-092	562
WD-090A	562	WE-120A	563	WEP709	2058	WEP1103/135	565	WEP7490/7490	1808	WF-063A	561	WH-092A	562
WD-090B	562	WE-120B	563	WEP710	2009	WEP1109	562	WEP51000-1	1114	WF-063B	561	WH-092B	562
WD-090C	562	WE-120C	563	WEP716	2023	WEP1109/139	562	WEP5D5	1101	WF-063C	561	WH-092C	562
WD-090D	562	WE-120D	563	WEP717	2023	WEP1112	563	WEP5H3	1104 N5	WF-063D	561	WH-092D	562
WD-092	562	WE-150	564	WEP719	2058	WEP1112/142	563	WEP5H4	1101	WF-065	561	WH-094	562
WD-092A	562	WE-150A	564	WEP720	2058	WEP1114	564	WEP5H5	1104 N7	WF-065A	561	WH-094A	562
WD-092B	562	WE-150B	564	WEP723	1617	WEP1114/145	564	WF-050	565	WF-065B	561	WH-094B	562
WD-092C	562	WE-150C	564	WEP724	1617	WEP1153	561	WF-090A	565	WF-065C	561	WH-094C	562
WD-092D	562	WE-150D	564	WEP728	1617	WEP1153/5070	561	WF-050B	565	WF-065D	561	WH-094D	562
WD-094	562	WEO704/130	2041	WEP729	1617	WEP1154	561	WF-050C	565	WF-088	562	WH-115	563
WD-094A	562	WEP50	2009	WEP735	1617	WEP1154/137	561	WF-050D	565	WF-088A	562	WH-115A	563
WD-094B	562	WEP52	2023	WEP735A	2009	WEP1155	562	WF-052	565	WF-088B	562	WH-115B	563
WD-094C	562	WEP55	2016	WEP736	2009	WEP1155/5073	562	WF-052A	565	WF-088C	562	WH-115C	563
WD-094D	562	WEP56	2016	WEP736/123A	1617	WEP1157	563	WF-052B	565	WF-088D	562	WH-115D	563
WD1	1123	WEP56/108	2016	WEP740A	2055	WEP1157/141	563	WF-052C	565	WF-090	562	WH-120	563
WD3	1123	WEP57	2023	WEP740A/164	2055	WEP1409	565	WF-052D	565	WF-090A	562	WH-120A	563
WD4	1122	WEP58	1617	WEP740B	2055	WEP1409/5009	565	WF-061	564	WF-090B	562	WH-120B	563
WD11	1101	WEP58/123	1617	WEP740B/165	2055	WEP1411	565	WF-061A	564	WF-090C	562	WH-120C	563
WD12	1101	WEP59	2030	WEP745	2020	WEP1411/5010	565	WF-061B	564	WF-090D	562	WH-120D	563
WD22	1101	WEP59/128	2030	WEP745/152	2020	WEP1414	561	WF-061C	564	WF-092	562	WH-150	564
WD61	1104	WEP62	2023	WEP746	2027	WEP1414/5013	561	WF-061D	564	WF-092A	562	WH-150A	564
WD-115	563	WEP62/159	2023	WEP746/153	2027	WEP1418	562	WF-063	564	WF-092B	562	WH-150B	564
WD-115A	563	WEP63	2016	WEP751	2017	WEP1418/5017	562	WF-063A	564	WF-092C	562	WH-150C	564
WD-115B	563	WEP63/161	2016	WEP751/186	2017	WEP1419	562	WF-063B	564	WF-092D	562	WH-150D	564
WD-115C	563	WEP66	2016	WEP756	2020	WEP1419/5018	562	WF-063C	564	WF-094	562	WH1012	1122
WD-115D	563	WEP66/199	2016	WEP756/196	2020	WEP1423	563	WF-063D	564	WF-094A	562	WH-050	565
WD-120	563	WEP103	561	WEP760	2043	WEP1423/5021	563	WF-065	564	WF-094B	562	WH-050A	565
WD-120A	563	WEP104	562	WEP760/219	2043	WEP1426	564	WF-065A	564	WF-094C	562	WH-050B	565
WD-120B	563	WEP105	563	WEP764	2055	WEP1426/5024	564	WF-065B	564	WF-094D	562	WH-050C	565
WD-120C	563	WEP134	1123	WEP764/238	2055	WEP1717	2016	WF-065C	564	WGOA-90	1122	WH-050D	565
WD-120D	563	WEP134/109	1123	WEP769	2043	WEP1945	2009	WF-065D	564	WF-10A5	1122	WH-052	565
WD-150	564	WEP138	1123	WEP769/									

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
WL-052C	565	WJ-092	562	WL01F	1173	WS300	1122	X0103BD	1067	X340400040	1171	XZ-152	564
WL-052D	565	WJ-092A	562	WL02F	1173	WSD002C	1122	X0103BA	1020	X400141640	2506	XZ152	564
WL-061	561	WJ-092B	562	WL02M	1173	WT16X8	1101	X0103DB	1020	X400141640[D4164C-2]	2506	Y0-6A	1104
WL-061A	561	WJ-092C	562	WL04F	1173	WT16X9	1101	X0103DD	1020		2506	Y100	1101
WL-061B	561	WJ-092D	562	WL04M	1173	WU-056D	561	X0301BG	1067	X440029020	1711	Y29979	2016
WL-061C	561	WJ-094	562	WL-050	565	WU-065D	561	X0301DG	1020	X440055560	1728	Y56601-08	1617
WL-061D	561	WJ-094A	562	WL-050A	565	WX-090	562	X0303BG	1067	X440058120	1771	Y56601-50	2023
WL-063	561	WJ-094B	562	WL-050B	565	WX090	562	X0303DG	1020	X440063050	1770	Y1343773-1	2016
WL-063A	561	WJ-094C	562	WL-050C	565	WX6	1123	X0304BG	1067	X440070490	2449	Y13175962	1122
WL-063B	561	WJ-094D	562	WL-050D	565	WZ09	562	X0304DG	1020	X440070490	2449	Y13189245	1067
WL-063C	561	WJ-115	563	WL-052	565	WZ-046	565	X0403BE	1067	(,MC14049UB)	2449	Y13238241	2009
WL-063D	561	WJ-115A	563	WL-052A	565	WZ046	565	X0403BF	1067	X440140050	1770	Y13290333	2016
WL-065	561	WJ-115B	563	WL-052B	565	WZ-048	565	X0403DE	1020	X440160660	2466	Y13297762	2023
WL-065A	561	WJ-115C	563	WL-052C	565	WZ048	565	X0403DF	1020	X440751880	2520	Y13297763	2023
WL-065B	561	WJ-115D	563	WL-052D	565	WZ-049	565	X0404BE	1067	X440751890	2521	Y13298671	1122
WL-065C	561	WJ-120	563	WL-061	561	WZ-050	561	X0404BF	1067	XA121	1104	Y13310137	2058
WL-065D	561	WJ-120A	563	WL-061A	561	WZ050	565	X0404DE	1020	XA494	2023	Y13310138	2016
WL-088	562	WJ-120B	563	WL-061B	561	WZ-052	565	X0404DF	1067	XA-495	2023	Y13310139	2023
WL-088A	562	WJ-120C	563	WL-061C	561	WZ052	565	X0609BE	1067	XA495	2023	Y13310147	1104
WL-088B	562	WJ-120D	563	WL-061D	561	WZ-061	561	X0609BF	1067	XA495(C)	2023	Y13331813	2055
WL-088C	562	WJ-150	564	WL-063	561	WZ061	561	X0609DE	1020	XA495AC	2023	Y13358072	1617
WL-088D	562	WJ-150A	564	WL-063A	561	WZ-063	561	X0609DF	1020	XA495C	2023	Y13390991	2020
WL-090	562	WJ-150B	564	WL-063B	561	WZ063	561	X0709BG	1067	XAA104	1801	Y13391001	2027
WL-090A	562	WJ-150C	564	WL-063C	561	WZ065	561	X0709DG	1020	XAA109	1808	Y13398601	1104
WL-090B	562	WJ-150D	564	WL-063D	561	WZ-085	562	X5M6	1104	XAN3064	075	Y13399701	2023
WL-090C	562	WK-050	565	WL-065	561	WZ085	562	X10G1829	1617	XB12	2030	Y13411222	1104
WL-090D	562	WK-050A	565	WL-065A	561	WZ-088	562	X16	1123	XB152	564	Y13417381	2041
WL-092	562	WK-050B	565	WL-065B	561	WZ088	562	X16A545-7	1617	XB401	2017	Y13430051	2020
WL-092A	562	WK-050C	565	WL-065C	561	WZ-090	562	X16A1938	1617	XB404	2020	Y13432501	1122
WL-092B	562	WK-050D	565	WL-065D	561	WZ090	562	X16E3860	1617	XB408	2020	Y13437771	1104
WL-092C	562	WK-052	565	WL-088	562	WZ-092	562	X16E3960	1617	XB476	2020	Y130213003	2009
WL-092D	562	WK-052A	565	WL-088A	562	WZ092	562	X16N1485	1617	XC371	2016	Y130213003(,25C458D)	2009
WL-094	562	WK-052B	565	WL-088B	562	WZ-094	562	X18	1123	XC372	2009		
WL-094A	562	WK-052C	565	WL-088C	562	WZ094	562	X32A1389	2023	XC373	2009	Y130213004(,25C458K)	2009
WL-094B	562	WK-052D	565	WL-088D	562	WZ9.1	562	X32C4211	2009	XC374	2009		
WL-094C	562	WK-061	561	WL-090	562	WZ12	563	X32C4296	2009	XC723	2041	Y130213004(,25C458L)	2009
WL-094D	562	WK-061A	561	WL-090A	562	WZ15	564	X32C5099	2030	XC-5491	035		
WL-115	563	WK-061B	561	WL-090B	562	WZ-90	562	X32C5111	2030	XD2A	1123	Y130213005	2009
WL-115A	563	WK-061C	561	WL-090C	562	WZ-115	563	X32C5198	2009	XG30	1617	Y130213005(,25C1213D)	2009
WL-115B	563	WK-061D	561	WL-090D	562	WZ115	563	X32C6105	2009	XI-548	2041		
WL-115C	563	WK-063	561	WL-092	562	WZ-120	563	X32D5422	2009	XR1488N	2520	Y130213007	2023
WL-115D	563	WK-063A	561	WL-092A	562	WZ120	563	X32L4296	2009	XR1488P	2520	Y130213007(,25A673C)	2023
WL-120	563	WK-063B	561	WL-092B	562	WZ-120(AU)	563	X32M5026	2009	XR1489AN	2521		
WL-120A	563	WK-063C	561	WL-092C	562	WZ-145	564	X32P5660	2016	X51	2016	Y130213041	1122
WL-120B	563	WK-063D	561	WL-092D	562	WZ145	564	X34E1226	2023	X52	2016	Y130213043	1104
WL-120C	563	WK-065	561	WL-094	562	WZ-150	564	X34E2111	2009	X53	2016	Y130213045	1104
WL-120D	563	WK-065A	561	WL-094A	562	WZ150	564	X44C358	2020	X54	2016	Y131759610	1122
WL-150	564	WK-065B	561	WL-094B	562	WZ522	565	X45C359	2027	X56	2016	Y132929871	1122
WL-150A	564	WK-065C	561	WL-094C	562	WZ529	562	X4604	1104	X59.1B	562	Y133101310	2009
WL-150B	564	WK-065D	561	WL-094D	562	WZ531	562	X-23305-3	1144	X510	1104	Y133101321	2016
WL-150C	564	WK-088	562	WL-115	563	WZ532	562	X-23305-4	1144	X514	2016	Y133101322	2009
WL-150D	564	WK-088A	562	WL-115A	563	WZ535	563	X330302	563	X515	2016	Y133101328	2009
WJ-050	565	WK-088B	562	WL-115B	563	WZ538	564	X300073360	2023	X516	1104	Y133101363	2009
WJ-050A	565	WK-088C	562	WL-115C	563	WZ904	565	X300101502	2023	X516A	1104	Y133101411	1122
WJ-050B	565	WK-088D	562	WL-115D	563	WZ905	565	X300101502	2023	X517	1104	Y133101412	1123
WJ-050C	565	WK-090	562	WL-120	563	WZ907	561	(,25A1015Y)	2023	X517A	1104	Y133101413	1122
WJ-050D	565	WK-090A	562	WL-120A	563	WZ912	562	X300115080	2023	X518	1104	Y133101414	565
WJ-052	565	WK-090B	562	WL-120B	563	WZ913	562	X300117500	2023	X519	2023	Y133101417	1122
WJ-052A	565	WK-090C	562	WL-120C	563	WZ914	562	X300117593	2023	X521	1617	Y133101419	1104
WJ-052B	565	WK-090D	562	WL-120D	563	WZ916	563	X302094530	2009	X522	1101	Y133101440	1104
WJ-052C	565	WK-092	562	WO-005	1173	WZ917	563	X302181502	2009	X522(RECT.)	1104	Y440800601	1251
WJ-052D	565	WK-092A	562	WO-6A	1104	WZ920	564	X302181502(,25C1815Y)	2009	X523	1104	Y440801101	1251
WJ-061	561	WK-092B	562	WO-6B	1102	X0069CE	2401		2009	X523A	1104	Y441800102	1251
WJ-061A	561	WK-092C	562	WO6C	1104	X0100AA	1067	X302278500	2009	X530	2030	YAAD004	1104
WJ-061B	561	WK-092D	562	WR-006	1141	X0100AB	1067	X302278530	2009	X531	1104	YAAD009	1123
WJ-061C	561	WK-094	562	WR006	1104	X0100BA	1067	X302278593	2009	X536	2016	YAAD010	1122
WJ-061D	561	WK-094A	562	WR011	1171	X0100BB	1067	X302278594	2009	X537	2016	YAAD018	1122
WJ-063	561	WK-094B	562	WR-013	1104	X0100CA	1020	X303088000	2020	X538	2016	YAAD019	1104
WJ-063A	561	WK-094C	562	WR013	1104	X0100CB	1020	X320010070	1122	X539	2016	YAAD020	1104
WJ-063B	561	WK-094D	562	WR-030	1141	X0100DA	1020	X320010070(,152095)	1020	X540	2016	YAAD022	1104
WJ-063C	561	WK-115	563	WR030	1171	X0100DB	1020		1122	X540A	1104	YAAN25C1096K	2017
WJ-063D	561	WK-115A	563	WR-040	1141	X0101BA	1067	X320010079	1122	XT15X3	2016	YAAN25C1096L	2017
WJ-065	561	WK-115B	563	WR040	1171	X0101BB	1067	X320010080	1122	XU604	1104	YAAN25C1096N	2017
WJ-065A	561	WK-115C	563	WR1	1114	X0101BD	1067	X320010240	1104	XZ-049	565	YAAN25C1096	2017
WJ-065B	561	WK-115D	563	WR2	1114	X0101DA	1020	X320010240(,155277B)	1020	XZ049	565	YBAD009	1104
WJ-065C	561	WK-120	563	WR100	1104	X0101DB	1020		1104	XZ-051	565	YC02P11/2	1114
WJ-065D	561	WK-120A	563	WR200	1104	X0101DD	1020	X320010380	1104	XZ051	565	YD1121	1122
WJ-088	562	WK-120B	563	WR300	1104	X0102AA	1067	X320010390	1122	XZ062	561	YEA0015	562
WJ-088A	562	WK-120C	563	WR400	1104	X0102AB	1067	X320010450	1104	XZ-070	561	YEA0025	562
WJ-088B	562	WK-120D	563	WRE981	1104	X0102BA	1067	X320010452	1122	XZ-086	562	YEA0030	1104
WJ-088C	562	WK-150	564	WRR1952	1617	X0102BB	1067	X320010460	1122	XZ-090	562	YEA0032	1123
WJ-088D	562	WK-150A	564	WRR1953	1617	X0102CA	1020	X320010480	1122	XZ090	562	YEA01N60P	1123
WJ-090	562	WK-150B	564	WRR1954	1617	X0102CB	1020	X330000059	565	XZ-092	562	YEA0AW01-06	561
WJ-090A	562	WK-150C	564	WRR1955	1144	X0102DB	1020	X330000050	562	XZ092	562	YEAN25C941	2009
WJ-090B	562	WK-150D	564	WRR1956	1144	X0102DB	1020	X3300000582	565	XZ094	562	YR-011	1104
WJ-090C	562	WL005M	1173	WS100	1122	X0103BA	1067	X340040030</					

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
YSG-20024	1104	Z1A150F	564	Z1112	565	ZEP44	562	ZJ9.1A	562	ZPC5.1	565	ZR829.100	561
YSG-V47-7-51	1101	Z4A6.2	561	Z1112-C	565	ZEP9.1	562	ZJ9.1B	562	ZPD6V2	561	ZR829.120	561
YSG-V47-7-51-1	1104	Z4B4.7	565	Z-1112C	565	ZEP9.1A	562	ZJ11	562	ZPD6.2	561	ZR1023	1104
YSG-V47-7-51-2	1104	Z4B5.1	565	Z1112C	563	ZEP9.1B	562	ZJ12A	563	ZPD6V1	562	ZR1031	1104
YSG-V81-2-3	1122	Z4B6.2	561	Z-1114	564	ZEP12	563	ZJ12B	563	ZPD9.1	562	ZR1033	1104
YSG-V139-2-2	1123	Z4B9.1	562	Z1114	564	ZEP12A	563	ZJ13	563	ZPD12	563	ZR1076	1104
YSG-V139-22	1123	Z4B12	563	Z1114-C	564	ZEP12B	563	ZJ13A	563	ZPD12V	563	ZS6	561
YZ-047	565	Z4B15	564	Z1202	565	ZEP13A	563	ZJ13B	563	ZPD15	564	ZS7	1101
YZ047A	565	Z4K	565	Z1212	563	ZEP15	564	ZJ15	564	ZPD15V	564	ZS8	1102
YZ-063	561	Z4MW333	1617	ZA9.1	562	ZEP15A	564	ZJ15A	564	ZPY3.9	562	ZS9.1	565
YZ063	561	Z4X5.1A	565	ZA9.1A	562	ZEP15B	564	ZJ15B	564	ZPY4.7	565	ZS9.1A	562
Z-00	1101	Z4X5.1B	565	ZA9.1B	562	ZEP15C	565	ZJ40	2016	ZPY5.1	565	ZS9.1B	562
Z0-12	563	Z4X9.1	562	ZA11	563	ZEP12	563	Z-252B	1104	ZPY6.2	561	ZS10A	1104
Z0-12A	563	Z4X11	563	ZA13	563	ZEP15	564	ZM4.7	564	ZPY9.1	565	ZS-10B	1104
Z0-12B	563	Z4X12	563	ZA12A	563	ZEN100	2009	ZM4.7A	2009	ZPY12	565	ZS10B	1104
Z0302BG	1000	Z4X15	564	ZA12B	563	ZEN102	2009	ZM4.7B	2009	ZPY15	564	ZS12	563
Z0302DG	1000	Z4XL6.2	561	ZA15	564	ZEN103	1617	ZM5.1	1617	ZQ-6	565	ZS12A	565
Z0305BG	1000	Z4XL6.2B	561	ZA15A	564	ZEN104	2016	ZM5.1A	2016	ZQ9.1	565	ZS12B	563
Z0305DG	1000	Z4XL9.1	562	ZA-15B	564	ZEN105	2058	ZM5.1B	2058	ZQ9.1A	565	ZS15	564
Z0309BG	1000	Z4XL9.1B	562	ZA15B	564	ZEN107	2023	ZM6.2	2023	ZQ9.1B	561	ZS15A	564
Z0309DG	1000	Z4XL12	563	ZA15V	564	ZEN108	2058	ZM6.2A	2058	ZQ11	562	ZS15B	564
Z0310BG	1000	Z4XL12B	563	ZB-1	563	ZEN109	2058	ZM6.2B	2058	ZQ12A	563	ZS20A	1104
Z0310DG	1000	Z4.7	565	ZB1-6	561	ZEN110	2069	ZM6.7	2069	ZQ12B	562	ZS20B	1104
Z0402BE	1000	Z5A6.2	561	ZB1-9	562	ZEM111	1617	ZM8.7A	1617	ZQ15	564	ZS21	1104
Z0402BF	1000	Z5B4.7	565	ZB-1-9.5	562	ZEM112	1617	ZM8.7B	1617	ZQ15A	562	ZS22	1104
Z0402DE	1000	Z5B5.1	565	ZB1-11	563	ZEN113	2016	ZM9.1	2016	ZQ15B	564	ZS23	1104
Z0402DF	1000	Z5B5.2	561	ZB1-12	563	ZEN114	1617	ZM9.1A	1617	ZR10	1141	ZS24	1104
Z0405BE	1000	Z5B9.1	562	ZB1-15	564	ZEN115	1617	ZM9.1B	1617	ZR11	1143	ZS25	1104
Z0405BF	1000	Z5B12	563	ZB4.7	565	ZEN116	2016	ZM9.1C	2016	ZR12	1143	ZS30	1104
Z0405DE	1000	Z5B-15	564	ZB4.7A	565	ZEN117	2016	ZM12	2016	ZR13	1144	ZS30A	1104
Z0405DF	1000	Z5B15	564	ZB4.7B	565	ZEN118	2016	ZM12A	2016	ZR14	1144	ZS30B	1104
Z0406	565	Z5C4.7	565	ZB5.1	565	ZEN119	2009	ZM12B	2009	ZR15	1104	ZS31	1104
Z0407	561	Z5C5.1	565	ZB5.1A	565	ZEN120	2009	ZM12C	2009	ZR10B793-1	563	ZS31A	1104
Z0409BE	1000	Z5C6.2	561	ZB5.1B	565	ZEN121	2009	ZM13	2009	ZR30A921-3	564	ZS31B	1104
Z0409BF	1000	Z5C9.1	562	ZB6.2	561	ZEN122	2023	ZM13A	2023	ZR60	1104	ZS32	1104
Z0409DE	1000	Z5C12	563	ZB6.2A	561	ZEN123	2035	ZM13B	2035	ZR61	1104	ZS32A	1104
Z0409DF	1000	Z5C15	564	ZB6.2B	561	ZEN126	2009	ZM15C	2009	ZR62	1104	ZS32B	1104
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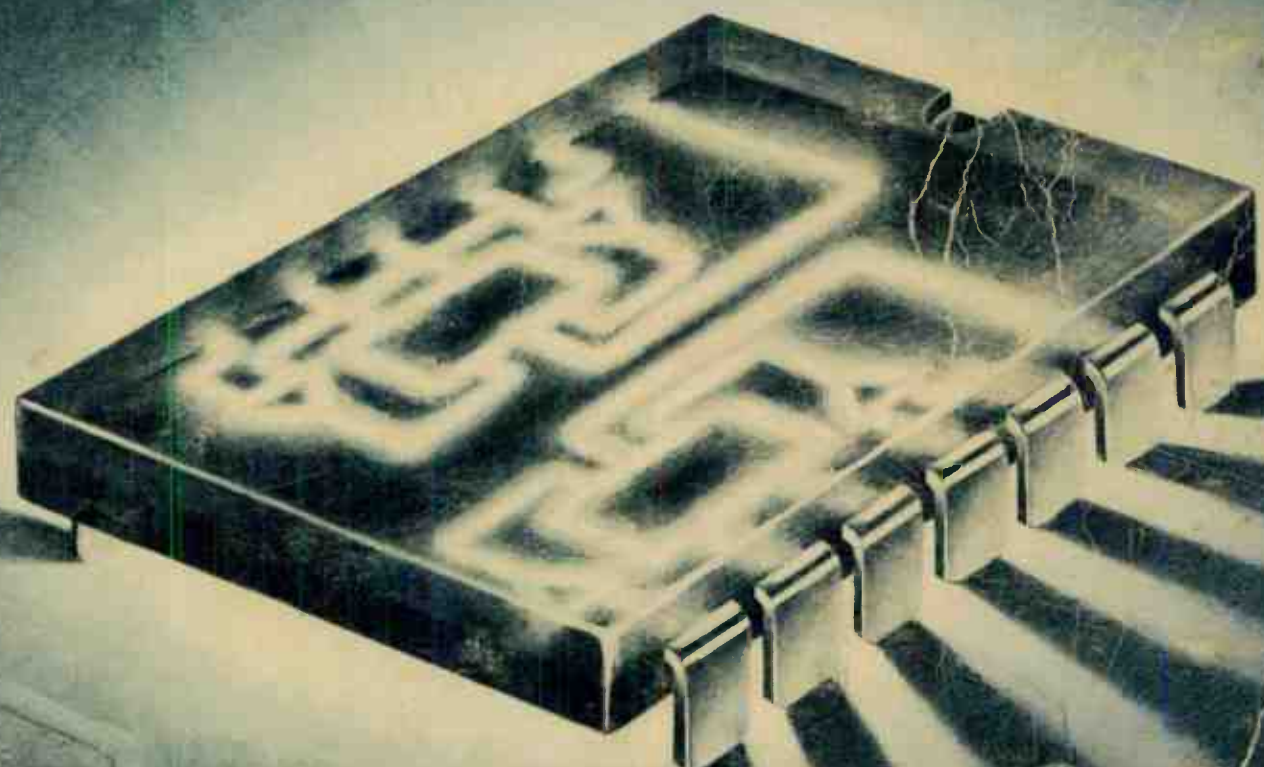
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INTRODUCTION

This SEMICONDUCTOR REFERENCE HANDBOOK is intended to be just that—a reference handbook. It is not a definitive text book on semiconductors. It is a compilation of data on Radio Shack's line of prime-quality ARCHER semiconductors. Every ARCHER device covered in this Handbook is guaranteed prime—they are not "fall-outs" or "seconds"; all are top-quality, with known JEDEC, EIA or manufacturer's numbers.

At the back of the book is a cross-reference listing for replacement of Transistors, Diodes and other interchangeable semiconductor devices. The total number of cross-referenced devices exceeds 100,000. These cross-reference/replacement listings are computer-selected and are based on careful analysis of important parameters of the listed devices.

NOTE: If you can't find a replacement listing for a device you require, refer to the specification listings of the appropriate ARCHER family device. Often you will be able to make suitable replacements based on the information presented.

Each ARCHER replacement should meet or exceed the required parameters. However, due to differences in Quality Control and Manufacturing procedures (which often allow for or result in broad parameter variations), and because many of the ARCHER devices are capable of better performance than the original, Radio Shack does not guarantee, nor does it imply, that the listed items will provide an exact replacement in every instance. Therefore we recommend that you check the voltage and current requirements of the circuit (and other pertinent specifications) before replacement and compare with the specifications listed for that particular ARCHER device.

HOW TO USE THIS BOOK

This book has been prepared to aid in BOTH replacement and original applications of Semiconductor devices. The information included will be invaluable for the service technician as well as the circuit designer (whether he be an engineer, hobbyist, student or electronics experimenter).

We have included hints on handling Semiconductor devices, operating considerations, and some simple tests to aid you in evaluating the quality of the device in existing equipment (and thus the need for replacement). Also, a complete section on the specifications for each of the ARCHER devices is included; if there is any question in your mind about replacement equivalents or original use, refer to the appropriate category in the book. You will find the important characteristics specified there.

The next to last section is an extensive listing of replacement and cross reference between other manufacturer's numbers (both JEDEC/EIA 2N—numbers and in-house designations) and the ARCHER devices. This listing provides for the substitution of over 82,000 semiconductors with ARCHER devices.

The final section includes case style drawings and some handy reference notes, a comprehensive glossary of commonly used words, plus symbols and abbreviations.

CARE AND HANDLING OF TRANSISTORS

Most modern transistors are somewhat immune from mechanical shock; however, it is always a good idea to keep them from excessive mechanical shocks, especially the metal-case type (avoid dropping, etc).

When cutting transistor leads, use scissor-type cutting tools (rather than diagonal cutting tools which use a crimping action). Crimp-type cutting tools produce a mechanical shock along the lead which when transmitted to the semiconductor chip or material can cause fracture. Consider the force with which the cut lead flies off the crimp-type cutting tool and you have a good idea of the intensity of the equal and opposite force which acts on the lead going into the device.

It is always a good practice to use a heat-sink tool on a transistor lead when soldering (use a low-wattage iron—30-watts or less). Heat from soldering can cause problems (especially with certain types of semiconductor devices). Thus, to be sure, always use a heat-sink on the lead when soldering. Gripping the lead with long nose pliers between the solder connection and the case of the device makes a good heat-sink; or use a tool designed for such use.

SILICON OR GERMANIUM?

The quickest way to determine if a transistor is germanium or silicon type, is to check the normal emitter-base voltage drop. With NPN devices, if the base is approximately 0.25 volts positive with respect to the emitter, it is a germanium type. If the voltage is about 0.65 volts, it is a silicon type. For PNP devices, the voltage will be the same value, but opposite in polarity (0.25 volts for germanium and 0.65 for silicon).

OPERATING CONSIDERATIONS

Before replacing an original-equipment device with the recommended Archer Type:

(A) Compare the lead or terminal arrangement of the Archer replacement device with the lead or ter-

minal arrangement of the original device. If these arrangements are different, and the original transistor is a "plug in" type, bend the leads of the ARCHER device so that the base, emitter and collector leads will mate with the original transistor leads. Trim the leads after soldering in place.

CAUTION: Be particularly careful about "pin-circle" and "in-line" lead break-out type transistors. Often one manufacturer makes a type with "in-line" leads, while another may make the same type with "pin-circle" configuration. **Doublecheck both the original and the replacement device before soldering or plugging in transistors.**

BOTTOM VIEW

PIN-CIRCLE



IN-LINE



(B) Certain considerations are involved whenever an original equipment transistor is replaced by one having a different type designation. When an ARCHER series transistor is used to replace an original equipment device in an untuned amplifier stage operating at a low signal level such as the untuned RF-amplifier (antenna) stage of a radio receiver, or a low-level AF amplifier stage, it is generally unnecessary to make any circuit adjustment to assure proper performance of the equipment. However, when a replacement is made in a tuned RF amplifier stage, it is always advisable to check the alignment of the associated tuned circuits to assure proper tracking and to achieve the required gain without loss of stability.

(C) When replacements are made in stages operating at relatively high power levels, such as Class A and Class B AF output stages of automobile radio receivers, phonographs and AF-amplifier systems, the transistor bias should be checked and adjusted, if necessary, to protect the ARCHER replacement transistors against excessive dissipation and to minimize distortion. Means for making adjustments are generally provided in the equipment, and the necessary instructions are usually given in the equipment manufacturer's service data.

(D) When installing an ARCHER transistor as a substitute for an original equipment type in an FM tuner, TV tuner, or other circuits operating at frequencies in the VHF or UHF regions, it is extremely important not to change any of the lead lengths or position of the original circuit. Before removing the original transistor, carefully note its position with respect to other circuit components as well as the lengths and placement of the transistor leads, and duplicate these details as closely as possible with the ARCHER replacement transistor. Failure to observe this precaution can result in improper tuning or circuit instability. The same holds true for any replacement of Integrated Circuits, specially in FM radios and TV Receivers. Failure to

observe this precaution can result in damage in the device. Transistor substitution in tuned circuits will often require realignment of the circuit.

SILICON VS SELENIUM RECTIFIERS

Silicon rectifiers are inherently more efficient than selenium or other metallic-oxide type rectifiers. When a silicon rectifier is used to replace a selenium rectifier in the power supply of a typical line-operated radio or TV receiver, the silicon rectifier will frequently deliver higher DC output voltage than the original device.

In some cases, this higher supply voltage may improve the performance of the equipment. However, in many other cases, it may immediately or eventually damage filter capacitors and/or other components which were designed to withstand only the voltage delivered by the original selenium rectifier. To prevent such damage, it is generally advisable to insert a power type resistor in series with the silicon rectifier either on the input side, between the AC supply and the rectifier, or on the output side between the rectifier and the first filter capacitor. The value of this resistor will depend on the required reduction in the DC output voltage and on the DC load current of the equipment. This value may be determined experimentally or calculated from the equation:

$$R = \frac{E}{I}$$

where R is the required resistance in ohms, E the required reduction in DC output voltage in volts and I the DC load current in amperes.

The wattage rating of the resistor should be at least 2 X EI (in no case less than 10 watts).

SOLDERING PRECAUTIONS

Extreme care should always be used in making solder connections to semiconductors. Momentary application of excessive heat, or even prolonged application of a properly heated soldering tool to a semiconductor lead or terminal, can permanently damage the device. Observe the following precautions in soldering a semiconductor lead or terminal:

1. Solder as far as possible from the body of the semiconductor.
2. Never apply heat or molten solder to a lead or terminal for longer than 10 seconds or at a point closer than 1/16 inch to the body of the device.
3. Use a low voltage iron (30 watts or less) specifically intended for use with transistors or miniature circuit components.
4. Keep the surfaces to be soldered clean and the tip of the soldering tool adequately tinned so that the connection can be made as quickly as possible.
5. Always use a heat sink on the lead when soldering. Gripping the lead or terminal with longnose pliers between the solder connection and case or body allows the pliers to act as a heat sink, conducting heat away from the internal elements of the device.

ABOUT CASE DIMENSIONS

In some instances, the case of an ARCHER Semi-

conductor may be slightly taller or thicker than that of the original device or have a slightly different shape, particularly if the original device is a foreign type not made to U.S.A. EIA (JEDEC) standards. These mechanical differences should not affect the performance of the equipment in which the replacement is made and normally will not prevent or complicate the installation of the ARCHER replacement device.

You should realize that cross-reference substitution listings are created based on **electrical parameters (not necessarily on mechanical size or type)**. Thus, when you make substitutions based on our listings, check for physical/mechanical compatibility. If space is limited, it would be a good idea to check physical dimensions as well as electrical specs before making substitution.

GENERAL PRECAUTIONS

ARCHER transistor and ARCHER semiconductors should not be inserted or withdrawn from circuits with the power on, because transient currents may cause permanent damage to the device. In some cases ARCHER semiconductors are in metal cans and thus could possibly become shock hazards if they are allowed to operate at a voltage appreciably above or below ground potential.

For the most effective protection, a power transistor should be operated with an adequate heat sink and with the lowest value of resistance or impedance in the emitter-to-base circuit consistent with driving signal considerations. The transistor should be protected against extremely high collector voltage pulses which may be generated when the device is operated with inductive loads particularly when current transients are present.

When replacing a power transistor or rectifier which is attached to the equipment chassis, or to a special heat sink, observe the following precautions:

A. In the case of oxide coated metal washers or wafers, which are frequently used as electrical insulators between the cases of power transistors and the chassis or heat sink, it is important not to scratch, chip or otherwise damage the oxide surface.

B. When installing an ARCHER power transistor, where a mica or oxide coated metal washer was used to insulate the case of the original device electrically from the case, apply a thin coating of Heat Sink Compound (Radio Shack Number 276-1372) between the washer and the chassis or heat sink.

TESTING A TRANSISTOR

Before replacing a transistor you want to be sure it needs to be replaced. Always check the entire circuitry to be sure the transistor requires replacement.

The best method for checking transistors is to use a good transistor checker (dynamic in-circuit and out-of-circuit type). However, a sensitive VOM can give you a good indication of the quality of the device.

I. In-Circuit Testing

A. First, check to see if the emitter-base junction is

forward-biased. An NPN transistor should show the base 0.2 to 0.65 volts positive with respect to the emitter (approximately 0.25 volts for a germanium type and 0.6 volts for silicon). A PNP transistor should show the base 0.2 to 0.65 volts negative with respect to the emitter (0.25 volts for germanium and 0.6 volts for silicon).

B. Check to see if the device is functioning as an amplifier. Short the emitter-base junction to remove forward bias. Voltage at the collector lead should rise to approximately the potential of the collector supply buss line. Any difference is caused by ICES (collector-to-base leakage current). The closer the collector voltage approaches the buss line, the lower ICES is and the better the transistor.

II. Out-of-Circuit Testing

Again, for the best indication of transistor quality, use a good transistor checker. However, an ohmmeter can be used as described here.

Before using the ohmmeter, find out which polarity of the internal ohmmeter battery is connected to which test lead (not all ohmmeters have the + battery polarity connected to the red lead and the - battery polarity connected to the black lead). To determine the polarity of the leads when using the ohmmeter function, use an external voltmeter or study the schematic of your VOM.

Also, remember that in most transistor circuits you are dealing with low voltages and currents (in some cases, very low). Therefore, **NEVER** use RX1 scale (extensive currents can flow through a junction, permanently damaging the transistor). It is best to determine the maximum amount of current available in each resistance range before using an ohmmeter for testing semiconductor junctions.

After you have evaluated your VOM for the above and are sure you will not damage a transistor (with excessive current or voltage in any given ohmmeter range), proceed as follows:

A. Small Signal PNP Germanium Transistors

1. Connect the positive lead of your ohmmeter to the emitter. Connect the negative lead to the base. You should read 200-500 ohms.
2. Connect the negative lead to the collector. You should read 10K-100K. Shorting collector base, the resistance should decrease.

B. Small Signal NPN Germanium Transistors

Reverse the polarity of the leads; the readings should be approximately the same.

C. Power PNP Germanium Transistors

1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 35-50 ohms.
2. Connect the negative lead to the collector. The reading should be several hundred ohms. Shorting collector to base, the resistance should decrease.

D. Power NPN Germanium Transistors

Reverse the polarity of the leads; the reading should be approximately the same.

E. Small Signal PNP Silicon Transistors

1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 1K-3K.
2. Connect the negative lead to the collector. The reading should be very high (may show as an "open").

F. Small Signal NPN Silicon Transistors

Reverse the polarity of the leads; the readings should be approximately the same.

G. Power PNP Silicon Transistors

1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 200-1K.
2. Connect the negative lead to the collector. The reading should be about 1 megohm or more.

H. Power NPN Silicon Transistors

Reverse the polarity of the leads; the readings should be approximately the same.

The resistance readings noted above can only be approximate; as long as you obtain somewhat **proportionate** readings (emitter-base readings as compared to emitter-collector), you can safely assume the transistor is OK.

HANDLING OF INTEGRATED CIRCUITS

Because MOS devices have extremely high input resistance, they are susceptible to damage when exposed to static electrical charges (even electrical charges that normally build up on the human body can cause damage). To avoid possible damage to the devices during handling, testing, or actual operation, the following procedures should be observed:

1. Except when being tested or in actual operation, the leads of devices should be in contact with a conductive material, to avoid build-up of static charge.

2. Soldering iron tips, tools, metal parts of fixtures and handling facilities should be grounded.

3. Transient voltages may cause permanent damage to the device if it is removed or inserted with the power on.

4. Do not apply signals to the input with the power supply off.

5. All unused input leads must be connected to either VSS or VDD (whichever is appropriate for the logic circuit involved).

DIODES AND RECTIFIERS

GENERAL PURPOSE DIODES RATINGS @ 25°C

Catalog Number	PIV (min) V	If A	Ir (max) @ Vr μ A	Vf (max) @ If V	Case Style
276-1101	50	1.000	10	1.6	DO41
276-1102	200	1.000	10	1.6	DO41
276-1103	400	1.000	10	1.6	DO41
276-1104	600	1.000	10	1.6	DO41
276-1114	1000	2.500	200	1.0	A1vm
276-1122	75	0.010	250nA	1.0	A1
276-1123	60	0.085	15	1.0	A1
276-1124	5	0.010	100nA	0.340	A4
276-1141	50	3.000	500	1.2	A3q
276-1143	200	3.000	500	1.2	A3q
276-1144	400	3.000	500	1.2	A3q

ZENER DIODES—1 Watt

Catalog Number	Vz Volts \pm 10%	Iz @ mA	Zz @ Iz ohms max	Case Style
276-561	6.2	41	2	DO41
276-562	9.1	25	7	DO41
276-563	12.0	21	9	DO41
276-564	15.0	17	14	DO41
276-565	5.1	49	7	DO41

BRIDGE RECTIFIERS

Catalog Number	PIV (min) V	If (max) A	Case Style
276-1146	50	4	M532a
276-1151	50	1.4	M548
276-1152	100	1.4	M548
276-1161	50	1	Y1
276-1171	100	4	M532a
276-1173	400	4	M532a
276-1180	50	6	M532a
276-1185	50	25	—

BIPOLAR TRANSISTORS

Catalog Number	Direct Commercial Equivalent	Mat.	Appl.	Polarity	Power Diss. @25°C Free Air	f _T Typical MHz	V _{CB0} V	V _{CE0} V	V _{EB0} V	I _C Max	I _B Max	h _{FE}	@V _{CE} V	@I _C mA	I _{CB0} at max V _{CB}	Case Style
276-2007	2N1305	G	S	PNP	150mW	5	30	—	25	300mA	—	40	1	10	6μA	TO5
276-2009	MPS2222A	S	G.P.	NPN	500mW	300	75	40	6	800mA	—	50	10	1	10nA	TO92
276-2010	PN2484	S	LL	NPN	350mW	15	60	60	5	50mA	—	250	5	1	10nA	TO92
276-2016	MPS3904	S	S	NPN	350mW	300	60	40	6	200mA	—	100	10	1	50nA	TO92
276-2017	TIP31	S	P	NPN	40W†	3	40	40	5	3A	1A	10-50	4	3A	100μA	TO220AB-2
276-2020	TIP3055	S	P	NPN	90W†	3	100	70	7	15A	7A	20	4	4A	1mA	TO220
276-2023	MPS2907	S	S	PNP	400mW	200	60	40	5	600mA	—	50	10	1	20nA	TO92
276-2027	MJE34	S	P	PNP	90W†	3	40	40	5	10A	3A	20-100	4	3A	220μA	TO220
276-2030	2N3053	S	P	NPN	1W	100	60	40	5	700mA	—	50	10	150	—	TO5
276-2032	MPS3638	S	RF/IF	PNP	350mW	100	25	25	4	500mA	—	30	3	10	10nA	TO92
276-2041	2N3055	S	P	NPN	115W†	2.5	100	60	7	15A	7A	50	4	1A	—	TO3
276-2043	MJ2955	S	P	PNP	150W†	4	100	60	7	15A	7A	70	10	0.5	—	TO3
276-2044	MRF901	S	UHF	NPN	300mW	2500	25	15	2	30mA	—	80	5	5	50nA	MACRO-X
276-2048	2SD313	S	P	NPN	30W†	8	60	60	5	3A	—	40-320	2	1	100μA	TO220
276-2051	2SC445	S	G.P.	NPN	250mW	250	60	50	5	100mA	—	60-600	3	1	100nA	TO92J
276-2055	2SC1308	S	SW	NPN	50W†	—	1400	400	6	7A	0.8A	3	2	4A	5mA	TO3
276-2057	2N4124	S	G.P.	NPN	350mW	300	30	25	5	200mA	—	40	10	2	0.1μA	TO92
276-2058	2N4401	S	G.P.	NPN	350mW	250 min.	40	60	6	600mA	—	500	10	1	0.1μA	TO92
276-2059	MP5A06	S	P	NPN	625mW	100	80	80	4	500mA	—	50 min.	1	100	0.1μA	TO92
276-2060	MPSA13	S	P*	NPN	625mW	2	30	30	10	500mA	—	10,000	5	100	100nA	TO92
276-2061	MPSA42	S	G.P.	NPN	625mW	50	300	300	6	500mA	—	40 min.	10	30	0.1μA	TO92
276-2068	TIP120	S	P	NPN	65W†	0.1	60	60	5	5A	120mA	2500	3	500	0.2mA	TO220AB-2

NOTE: All ratings given are for 25°C except where otherwise noted. †With heat sink.

MATERIAL:

S—Silicon; G—Germanium

APPLICATION:

S—Switch

P—Power amp/switch

*—High Gain Darlington

LL—Low Level

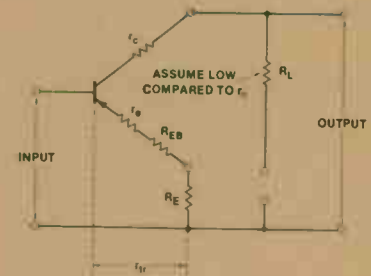
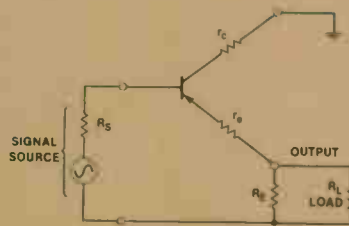
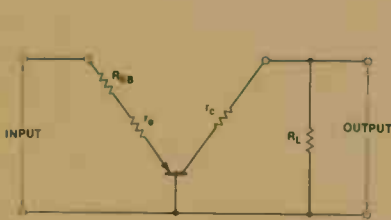
G.P.—General purpose

RF/IF—RF/IF frequency

UHF—Ultrahigh frequency

SW—TV Sweep

USEFUL INFORMATION



Parameters of Common-Base Circuit

- Input Impedance** $Z_{in} = r_{tr}$
- Load Impedance** $Z_L = R_L$ in parallel with input impedance of following stage
- Current Gain** $A_i = \alpha = \frac{\beta}{1 + \beta}$
(In practice, α is 0.95 to 0.995, or approximately 1.)
- Voltage Gain** $A_v \approx \frac{Z_L}{r_{tr}} = g_m Z_L$

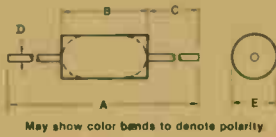
Parameters of Common-Collector Circuit

- Input Impedance** $Z_{in} = (\beta + 1)Z_L$
where, Z_L is R_L in parallel with R_E
- Output Impedance** $Z_{out} = \frac{R_S}{\beta + 1}$
where, R_S is the output impedance of the signal source
- Current Amplification** $A_i \approx \beta$
- Voltage Amplification** $A_v =$ Less than unity

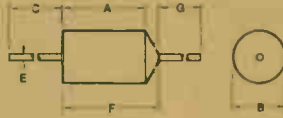
Parameters of Common-Emitter Circuit

- Input Impedance** $Z_{in} = h_{ie} r_{tr}$
- Load Impedance** $Z_L = R_L$ in parallel with input impedance of next stage
- Current Gain** $A_i = \frac{\Delta I_C}{\Delta I_B} = h_{ie}$
where, $h_{ie} = \beta \cdot \frac{I_C}{I_B} = \frac{\alpha}{1 - \alpha}$
- Voltage Gain** $A_v = \frac{\Delta V_C}{\Delta V_B} = \frac{Z_L}{r_{tr}} = g_m Z_L$
- Power Gain** $A_p = \frac{V_{out} I_{out}}{V_{in} I_{in}} \approx \beta \frac{Z_L}{r_{tr}}$

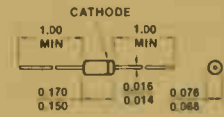
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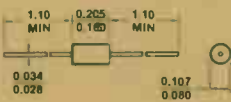
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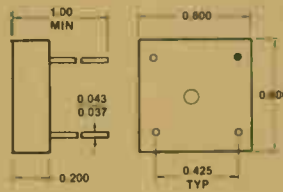
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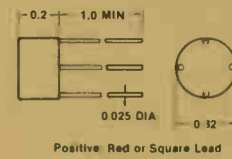
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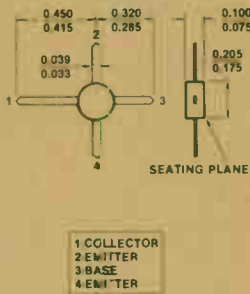
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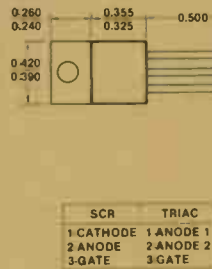
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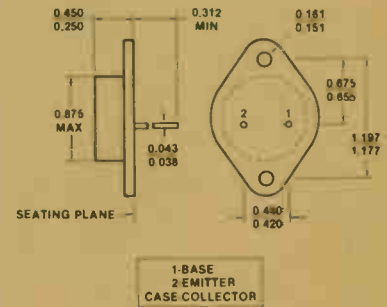
MACRO-X



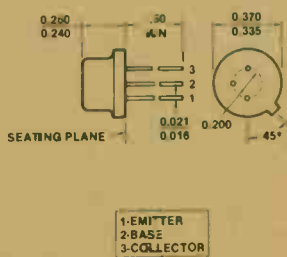
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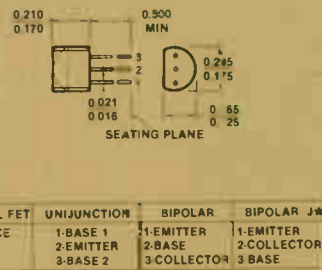
TO3



TO5

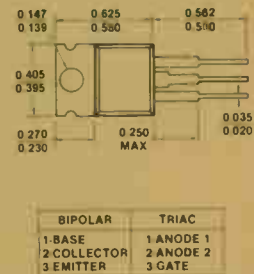


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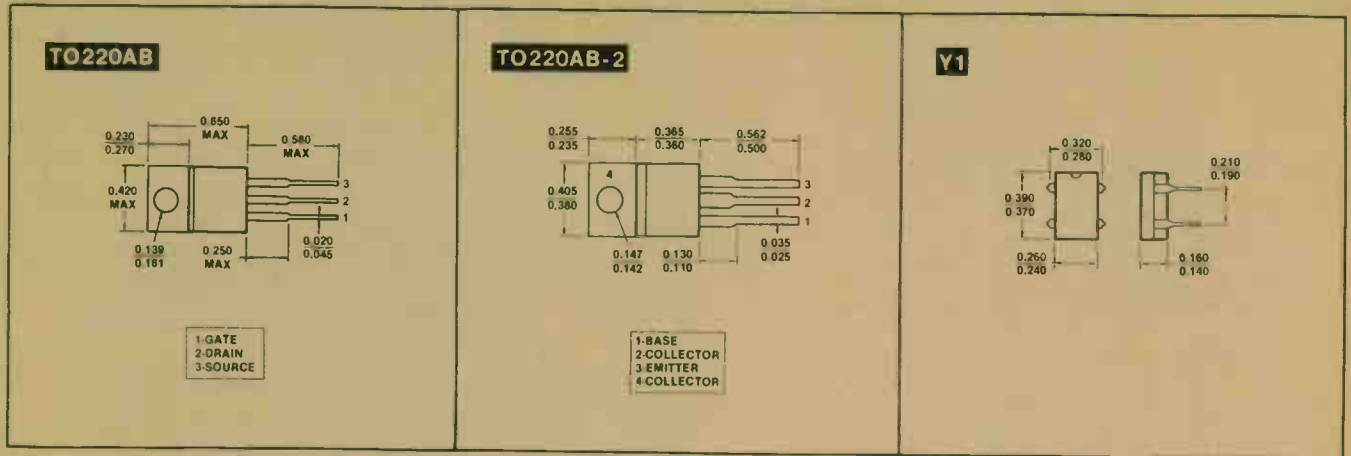


* Japanese device types

TO220



QUICK CASE REFERENCE



SPECIAL TRANSISTOR (N-CHANNEL MOSFET)

IRF511

276-2072

N-CHANNEL MOSFET TRANSISTOR

GENERAL DESCRIPTION

The efficient geometry and unique processing of the HEXFET design achieve very low on-state resistance combined with high transconductance and great device ruggedness.

This transistor also features all of the well established advantages of MOSFETs such as voltage control, freedom from second breakdown, very fast switching, ease of paralleling, and temperature stability of the electrical parameters.

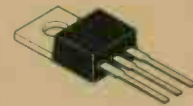
FEATURES

- Fast switching
- Low drive current
- Ease of paralleling
- No second breakdown
- Excellent temperature stability

APPLICATIONS

- Switching power supplies
- Motor controls
- Inverters
- Choppers
- Audio amplifiers
- High energy pulse circuits

PIN CONNECTION



ABSOLUTE MAXIMUM RATINGS

Drain-Source Voltage, V_{DS}	60V
Drain-Gate Voltage ($R_{GS} = 1 M\Omega$), V_{DGR}	60V
Gate-Source Voltage, V_{GS}	$\pm 20V$
Continuous Drain Current, $I_D @ T_C \cong 86^\circ C$	3A
Pulsed Drain Current, I_{DM}	8A
Maximum Power Dissipation, P_D	20W
Linear Derating Factor	0.16W/K
Inductive Current, Clamped, I_{LM} (See Fig. 1) $L = 100 \mu H$	8A
Operating Temperature Range, T_J	-55 to $+150^\circ C$
Storage Temperature Range, T_{stg}	-55 to $+150^\circ C$

TEST CIRCUITS

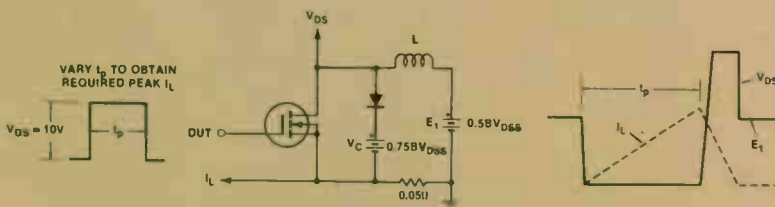


Figure 1—Clamped Inductive Test Circuit and Waveform

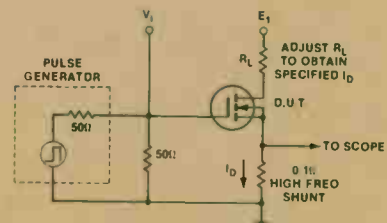
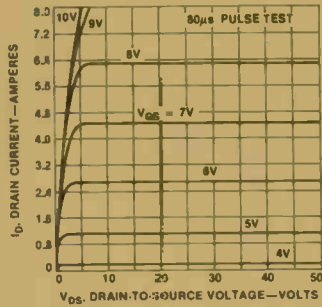
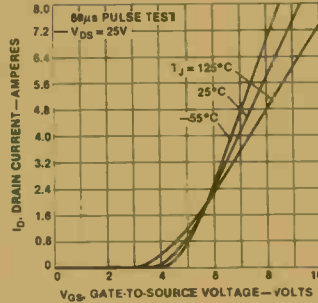


Figure 2—Switching Time Test Circuit

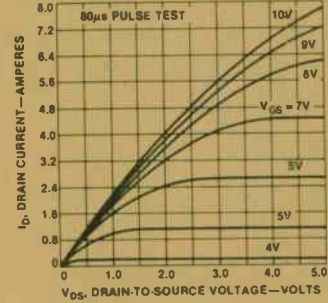
TYPICAL CHARACTERISTICS



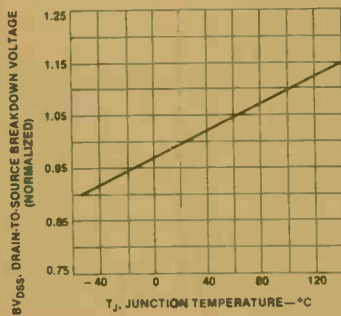
Output Characteristics



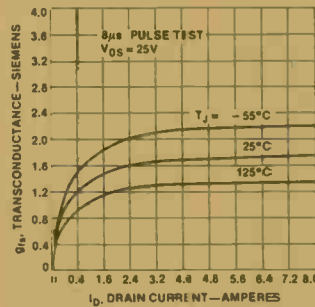
Transfer Characteristics



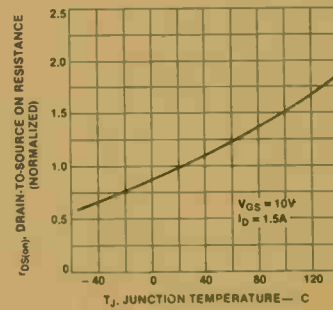
Saturation Characteristics



Breakdown Voltage vs Temperature



Transconductance vs Drain Current



Normalized On-Resistance vs Temperature

N-CHANNEL LOW POWER HEXFET

IRFD1Z3
273-2073

GENERAL DESCRIPTION

This device combines automatic insertion efficiency, a 1 watt heat sink tab with the HEXFET high performance, quality, and reliability. These space saving HEXDIPs are end-stackable in rows of any length on 100 mil centers. The low profile N-Channel HEXDIPs can be used on boards for cages with 0.5" board spacing.

PIN CONNECTION



ABSOLUTE MAXIMUM RATINGS

Drain-to-Source Voltage, V_{DS}	60V
On-State Resistance, $R_{DS(ON)}$	3.2Ω
Continuous Drain Current, I_D (25 $^\circ C$ Case)	0.4A
Pulsed Drain Current, I_{DM}	1.5A
Maximum Power Dissipation, P_D	1.0W

SPECIAL TRANSISTORS (FET) (UNIUNCTION)

MPF102
276-2062

SILICON N-CHANNEL JUNCTION FIELD EFFECT TRANSISTOR

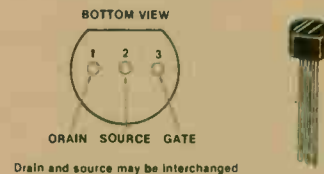
GENERAL DESCRIPTION

The MPF102 is designed for small signal applications. These include VHF amplifiers and mixers.

ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Drain-Source Voltage	25 V
Drain-Gate Voltage	25 V
Gate-Source Voltage	25 V
Gate Current	10 mA
Total Device Dissipation	310 mW
Operating Junction Temperature	125°C
Storage Temperature Range	-65 to +150°C

PIN CONNECTION



MU4891
276-2029

PN UNIUNCTION TRANSISTOR

GENERAL DESCRIPTION

This is a PN Unijunction Transistor designed for use in pulse, timing, triggering, sensing, and oscillator circuits. The annular process provides low leakage current, fast switching and low peak-point currents as well as outstanding reliability and uniformity.

ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

RMS Power Dissipation	300 mW
RMS Emitter Current	50 mA
Peak Pulse Emitter Current	1.0 Amp
Emitter Reverse Voltage	30 Volts
Intrinsic Standoff Ratio (η) ($V_{B2B1} = 10\text{V}$) Note 1	0.82 η
Interbase Resistance (r_{BB}) ($V_{B2B1} = 3.0\text{V}$, $I_E = 0$)	9.1 k ohms
Interbase Resistance Temperature Coefficient ($\propto 1/r_{BB}$) ($V_{B2B1} = 3.0\text{V}$, $I_E = 0$, $T_A = -65^\circ\text{C}$ to 100°C)	0.9%/°C
Emitter Saturation Voltage ($V_{EB1(sat)}$) ($V_{B2B1} = 10\text{V}$, $I_E = 50\text{mA}$) Note 2	4.0 Volts
Modulated Interbase Current ($I_{B2(mod)}$) ($V_{B2B1} = 10\text{V}$, $I_E = 50\text{mA}$)	15 mA
Emitter Reverse Current (I_{EB20}) ($V_{B2E} = 30\text{V}$, $I_{B1} = 0$)	10 nA
Peak Point Emitter Current (I_p) ($V_{B2B1} = 25\text{V}$)	5.0 μA
Valley Point Current (I_v) ($V_{B2B1} = 20\text{V}$, $R_{B2} = 100\text{ohms}$) Note 2	4.0 mA
Base-one Peak Pulse Voltage (V_{OB1}) (Note 3, Figure 2)	5.0 Volts
Storage Temperature Range	-65 to +150°C

NOTES

- Intrinsic standoff ratio, η , is defined by equation:

$$\eta = \frac{V_p - V_{(EB1)}}{V_{B2B1}}$$

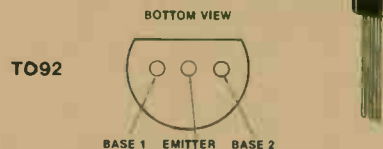
Where V_p = Peak Point Emitter Voltage

V_{B2B1} = Interbase Voltage

$V_{(EB1)}$ = Emitter to Base-One Junction Diode Drop ($\approx 0.5\text{V}$ @ $10\mu\text{A}$)

- Use pulse techniques: $PW \approx 300\mu\text{s}$ duty cycle $\leq 2\%$ to avoid internal heating due to interbase modulation which may result in erroneous readings.
- Base-One Peak Pulse Voltage is measured in circuit of Figure 2. This specification is used to ensure minimum pulse amplitude for applications in SCR firing circuits and other types of pulse circuits.

PIN CONNECTION



TYPICAL CHARACTERISTICS

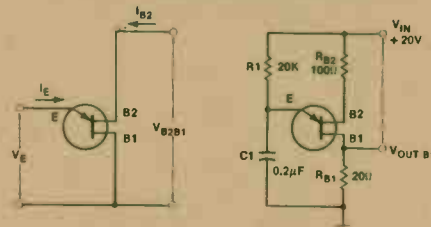


Figure 1—Unijunction Transistor Symbol and Nomenclature

Figure 2—Typical Relaxation Oscillator

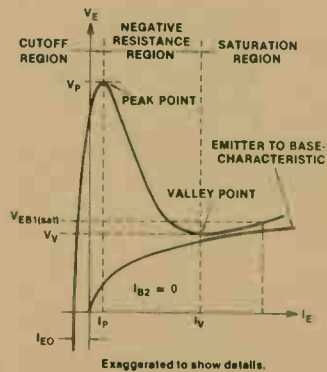


Figure 3—Static Emitter Characteristic Curves

SILICON N-CHANNEL JUNCTION FIELD-EFFECT TRANSISTOR

2N3819
276-2035

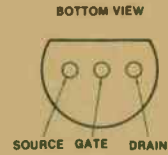
GENERAL DESCRIPTION

The 2N3819 is designed for general purpose small-signal applications. It features low capacitance between drain and gate terminals and an excellent high-frequency figure of merit. It achieves a low noise figure and good power gain with low crossmodulation and intermodulation.

ABSOLUTE MAXIMUM RATING ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Gate-Source Breakdown Voltage BV_{GSS}	- 40 V
Zero Gate Voltage Drain Current I_{DSS}	20 mA
Forward Transconductance g_{fs}	7.0- mmhos
Reverse Gate Leakage I_{GSS}	- 100 pA
"ON" Resistance r_{DS}	500 ohms
Pinch Off Voltage $V_{GS(OFF)}$	- 6.0 V
Output Conductance g_{os}	10 μ mhos
Feedback Capacitance C_{rss}	0.9 pF
Input Capacitance C_{iss}	4.0 pF
Power Gain C_{ps}	12 dB
Power Dissipation	360 mW

PIN CONNECTION

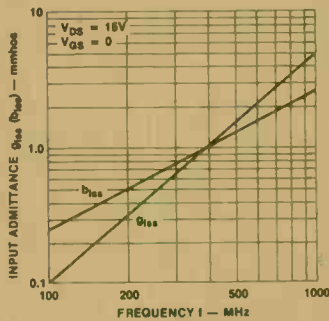


T092

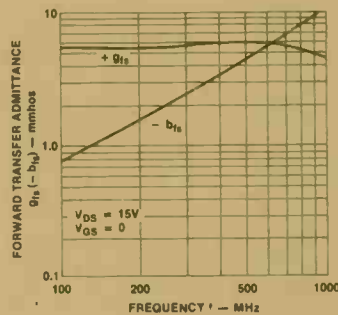


TYPICAL CHARACTERISTICS

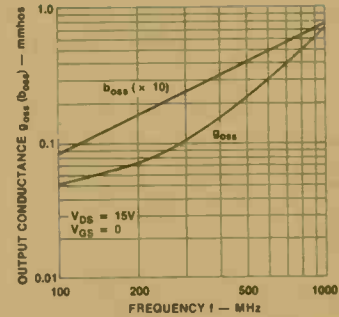
COMMON SOURCE



Input Admittance vs Frequency

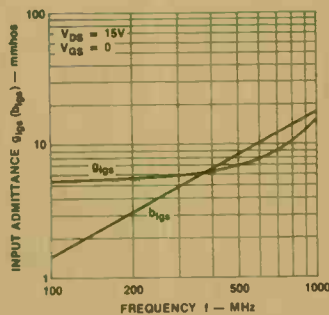


Forward Transfer Admittance vs Frequency

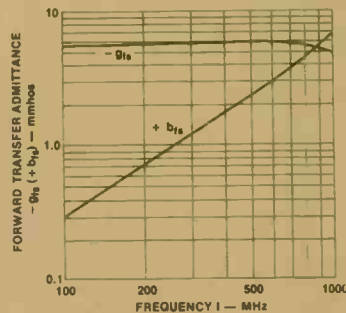


Output Conductance vs Frequency

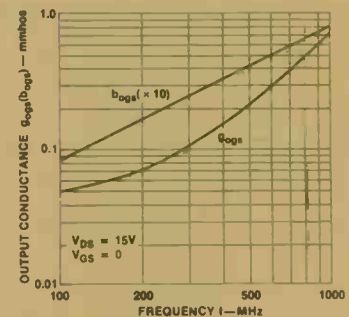
COMMON GATE



Input Admittance vs Frequency



Forward Transfer Admittance vs Frequency



Output Conductance vs Frequency

V8ZA1

276-569

METAL DIODE VARISTOR

GENERAL DESCRIPTION

The V8ZA1 varistor is best described by a voltage current characteristic shown in Figure 1. The device is symmetrical and its V-I characteristic is quite similar to zener diodes connected back-to-back.

Figure 2 shows the V-I characteristics of the V8ZA1. The 1 mA point defines the specification limit for the minimum and maximum voltage. The maximum point is continuous into the maximum clamping voltage of the device. The thick, heavy line shows the 500-device average. In comparing the 500-device average and the maximum limits, one can see how much better the devices are than the specification indicates.

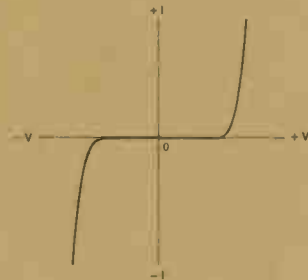


Figure 1—Symbol and V-I Characteristic of Varistors

PIN CONNECTION

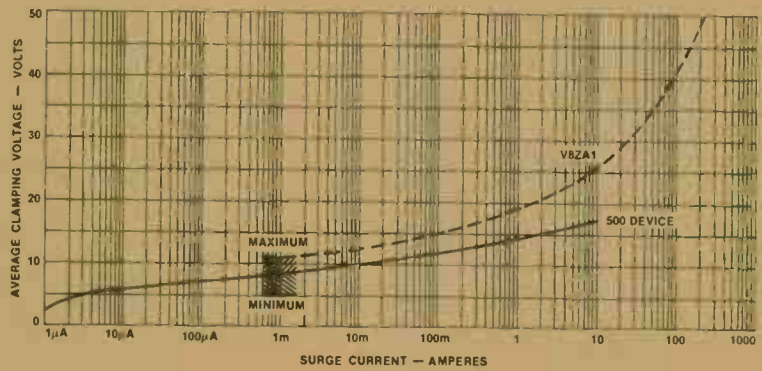


Figure 2—Maximum and Minimum V_c and 1 mA and Maximum V_c Continuous to Maximum I_c . Solid Line shows 500 Device Average of V_c

The devices are constructed similar to a ceramic capacitor. Two electrodes are separated by a ceramic material. As capacitance is proportional to area, and inversely proportional to thickness, low-voltage varistors have relatively high capacitance, which limits their application to the lower frequency domain, as the charging current of the capacitance may alter the signal.

One of the inherent features of the V8ZA1 varistor is its high energy absorption capability. This is based on the fact that each device consists of many small junctions where the energy is converted into heat. Each junction is in immediate contact to the zinc oxide material which has high thermal storage capability and yields a device having low peak temperatures, which makes it extremely reliable with superior overload capability.

The new low-voltage varistors can be used to protect low-voltage circuits of 5V and lower: all integrated circuits, systems containing low-voltage IC's, memories, test equipment, data processing equipment using large, mini, or micro-computers, input-output circuits, sensing circuits, current loops, sensing and interlocking circuits.

The simplest way to use a V8ZA1 varistor is shown in Figure 3(a). The maximum clamping voltage depends on the maximum transient current. If the clamping voltage is too high and the signal currents are low, hybrid arrangements as shown in Figures 3(b) and (d) may still be an effective and low cost alternative. The series impedance Z_s (an inductor or resistor) should be as large as possible, without distorting or attenuating the signal appreciably. The clamping voltage of the suppressor should be low, but high enough to not attenuate or distort the signal.

ABSOLUTE MAXIMUM RATINGS

Transient Energy ($10 \times 100\mu s$)	0.4 Joules
Transient Peak Current ($8 \times 20\mu s$)	100A
Voltage DC	5.5 V
Voltage RMS	4 V
Voltage Clamping ($8 \times 20\mu s$)	22 V
Typical Capacitance ($f = 0.1-1MHz$)	4500 pF
Power (Transients)	0.25 W

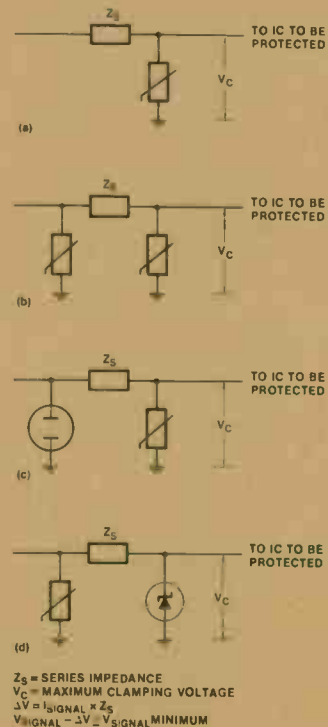
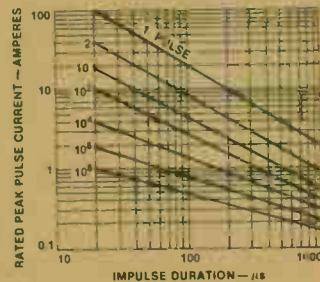


Figure 3—Possible Configurations of V8ZA1 Varistors In Combination With Other Devices

TYPICAL CHARACTERISTICS



Rated Peak Pulse Current
vs Impulse Duration

APPLICATION INFORMATION

Transients exist in every ac or dc system or any wire connecting two pieces of equipment or components. The source can be lightning, high energy switching, high voltage sparkover, or fuse blowing. Every time a magnetic storage device is turned off, the energy stored in the inductance is given as:

$$E = \frac{1}{2} L I^2$$

$E = \text{Energy (Joules)}$
 $L = \text{Inductance (Henries)}$
 $I = \text{Current (Amps)}$

The peak voltage is the result of collapsing the magnetic field.

$$V = -L \times \frac{di}{dt}$$

$V = \text{Induced voltage (Volts)}$
 $L = \text{Inductance}$
 $\frac{di}{dt} = \text{Change of current}$

Contact arcing, capacitor discharge, and electrostatic discharge may be found any place there is energy stored in inductances, capacitors, or mechanical devices (motors and generators), and this energy is returned to a circuit. Stray capacitance and inductance may set off oscillation, making the problem even worse.

Whatever the cause of a transient, natural or man-made, the damage potential is real and cannot be causally dismissed if reliable operation of equipment is to be expected.

To properly select a transient suppressor, the frequency of occurrence, open circuit voltage, short circuit current, and source impedance must be known.

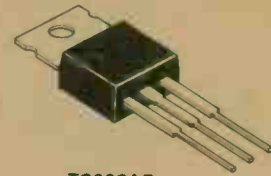
SPECIAL PURPOSE DEVICES (SCR) (TRIAC) (VARISTER)

276-1000 276-1001 276-1020 276-1067

THYRISTORS



MU27



TO220AB

GENERAL DESCRIPTION

Thyristors and their trigger devices can take numerous forms, but they share these characteristics:

- They are "open circuits" capable of withstanding rated voltage until triggered.
- They become low-impedance current paths when triggered, and remain so, even after the trigger source is removed, until current through that path stops, or is reduced below a minimum "holding" level.

SCRs

Silicon Controlled Rectifiers (SCRs) are Thyristors intended to switch load currents in one direction only, making them useful for DC and half-wave AC applications as well as full-wave applications, in which bidirectional current is routed in one direction through the SCR via a bridge rectifier.

TRIACs

Triacs are bidirectional Thyristors, in which a single trigger source turns the device on for load current in either direction. Because they do not require a bridge rectifier in order to handle full-wave AC, Triacs are useful in AC power applications that require full source power control capability to be applied to the load.

Catalog Number	I _{max} A	V _{max} V	I _{GT} (max) mA	V _{GT} (max) V	Case Style
276-1067	6	200	25	1.5	MU27
276-1020	6	400	25	1.5	MU27

Catalog Number	I _{max} A	V _{max} V	I _{GT} (max) mA	V _{GT} (max) V	Case Style
276-1001	6	200	50	2.5	TO220AB
276-1000	6	400	50	2.5	MU27

V130LA10A METAL OXIDE VARISTER

276-570

GENERAL DESCRIPTION

This zinc oxide varistor is a voltage dependent symmetrical resistor which performs similarly to back-to-back zener diodes in circuit protection and offers advantages in performance and economics. When exposed to high energy voltage transients, the varistor impedance changes from a very high standby value to a very low conducting value thus clamping the transient to a protective level. The energy of the incoming high voltage pulse is absorbed by the varistor, protecting voltage sensitive components against damage.

FEATURES

- Excellent clamp ratio
- Fast response time (<35 nsec.)
- Low standby power drain
- No follow-on current

ABSOLUTE MAXIMUM RATINGS

Transient Energy (10 × 1000 μs) (Note 1)	35 joules
Transient Peak Current (8 × 20 μs) (Note 2)	4500 A
Peak Voltage @ 1 ma DC	232 V
Peak Voltage @ 1 ma AC	254 V
Clamping Voltage V _C @ Test Current (8 × 20 μs)	340 V
Typical Capacitance (f = 0.1 to 1 MHz)	1000 pF

Note 1: 10 μs rise and 1000 μs to 50% decay of peak value.

Note 2: 8 μs rise and 20 μs to 50% decay of peak value.

PIN CONNECTION



OPTOELECTRONIC INDEX

FUNCTION	CATALOG NO.	PAGE NO.
DET/EMITTER	276-142	22
DRIVER	276-134	18
DISPLAY	276-053	21
	276-081	19, 20
EMITTER	276-143	22
LED INDICATORS	276-018	16
	276-019	16
	276-021	16
	276-022	16
	276-026	16
	276-033	16
	276-035	15
	276-037	16
	276-041	16
	276-068	16
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	276-070	16
	276-073	16
PHOTOCELL	276-116	21
PHOTO TRANSISTOR	276-130	17
	276-145	17
SOLAR CELL	276-124	23
SOLAR PANEL	277-1250	23

TRI-COLOR LIGHT EMITTING DIODE

XC-5491
276-035

GENERAL DESCRIPTION

The XC-5491 tri-state LED provides red, green, and yellow emission in the same package. This LED is a popular .200 diameter, two-leaded package containing a red and green LED chip in inverse parallel. By reversing the polarity of the applied current, the LED will emit red or green light while an AC voltage results in yellow light. The chips used in the XC-5491 are brightness matched so that the light output is uniform. This eliminates the necessity for the special drive circuits previously required with tri-state lamps.

These lamps provide the designer with the capability of efficiently displaying three functions with one indicator. This reduces the number of front panel indicators and simplifies design.

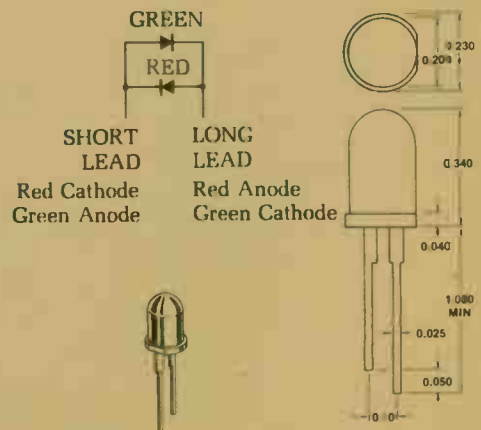
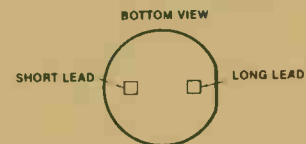
FEATURES

- 3 States—red, green, and yellow
- Equal brightness in all three colors
- Popular T 1 1/4 size package
- Wire wrappable leads

ABSOLUTE MAXIMUM RATINGS

Forward Current	25 mA
Peak Reverse Voltage	5V
Power Dissipation	100 mW
Operating Temperature	-55 to +85°C
Lead Solder Temperature	260°C

PIN CONNECTION



OPTOELECTRONIC (LED) LED INDICATORS

Catalog Number	Direct Commercial Equivalent	Peak Wave Length nM	Color	Forward Voltage V_F (V)	Reverse Voltage V_R (V)	Max DC Forward Current I_F (MA)	Max Pwr Diss P_D (MW)	Fig. No.
276-018	PR5534S	700	RED	2.5	4	100	75	5
276-019	BG5534S	555	GREEN	2.5	4	100	125	5
276-021	SLP-236B	565	YELLOW	2.8	3	30	70	6
276-022	SLP-236B	565	GREEN	2.8	3	30	70	6
276-026	—	650	RED	—	3	50	100	3
276-033	TLR-107	700	RED	2.1	4	35	100	2
276-037	SLP-235B	565	GREEN	2.8	3	30	70	5
276-041	—	700	RED	1.75	3	70	140	4
276-066	—	700	RED	1.9	—	30	—	7
276-069	—	560	GREEN	2.1	—	30	—	7
276-070	SEL-1120R	700	RED	2.5	3	30	—	1
276-073	—	—	YELLOW	2.1	—	30	—	7

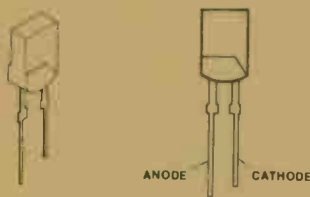


FIGURE 1
Miniature LED with diffused lens. Its features include high brightness—ideal for bar graph display—can be arranged horizontally or vertically.



FIGURE 2
Miniature LED with diffused lens. This LED is compatible with most TTL and transistor circuits. It features a Fresnel lens design.



FIGURE 3
This LED features a frosted diffused lens in a plastic encapsulant. When the device is on, it appears as a large, soft light source, making it ideally suited for front panel applications.



FIGURE 4
This device is a jumbo LED with a diffused lens. It can be used in applications such as pilot and indicator lamps.



FIGURE 5
Subminiature LED with diffused lens. This device has solid state reliability and is compatible with most TTL and transistor circuits.

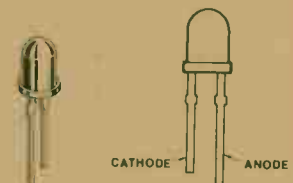


FIGURE 6
This is a frame type solid state LED with a diffused lens.

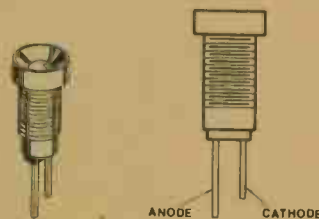


FIGURE 7
This is a subminiature LED indicator with polished chrome reflective holder.

SILICON PHOTOTRANSISTOR

276-130

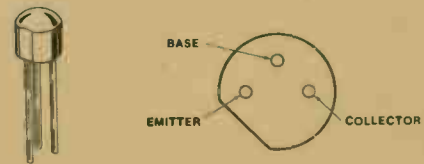
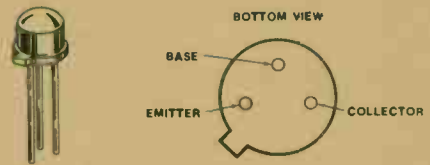
GENERAL DESCRIPTION

The 3 terminal phototransistor has exceptionally stable characteristics and high illumination sensitivity. The electrically connected base lead increases its applicability to various circuit designs. It features low leakage, low power requirements, TTL/DTL compatibility, a wide sensitivity range and fast response.

ABSOLUTE MAXIMUM RATINGS

Maximum Power Dissipation	
Total Dissipation at 25°C Case Temperature	200 mW
at 25°C Ambient Temperature	100 mW
Maximum Voltages	
V _{CB0} Collector to Base Voltage	50 Volts
V _{CEO} Collector to Emitter Sustaining Voltage	30 Volts
Maximum Current	
I _C Collector Current	25 mA
Maximum Temperature/Humidity	
Operating Junction Temperature	-55 to +85°C
Storage Temperature	-55 to +100°C
Relative Humidity at Temperature	98% to 65°C

PIN CONNECTIONS



The base lead is for testing only, it is not used in normal applications.

INFRARED PHOTOTRANSISTOR

TIL414
276-145

GENERAL DESCRIPTION

The TIL414 is an NPN silicon phototransistor in a T-1 3/4 style case. It provides high speed and high photosensitivity, suitable for IR switching applications.

ABSOLUTE MAXIMUM RATINGS

Collector-Emitter Voltage	50 V
Emitter-Collector Voltage	7 V
Power Dissipation	50 mW
Operating Temperature	-40° to +100°C

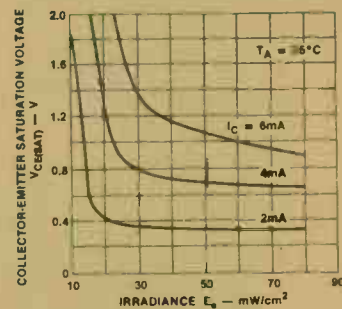
ELECTRICAL CHARACTERISTICS (Typical)

Dark Current (V _{CE} = 30 V)	25 nA
Light Current (V _{CE} = 5 V • E _p = 20mW/cm ²)	7 mA
Collector-Emitter Saturation	0.4 V
Rise Time	8 μs
Fall Time	6 μs

PIN CONNECTION



TYPICAL CHARACTERISTICS



Collector-Emitter Saturation Voltage vs Irradiance

OPTOELECTRONIC (DRIVER)

MOC3010
276-134

OPTOCOUPLER TRIAC DRIVER



GENERAL DESCRIPTION

This device consists of a gallium-arsenide infrared emitting diode, optically coupled to a silicon bilateral switch and is designed for applications requiring isolated triac triggering, low-current isolated ac switching, high electrical isolation (to 7500 V peak), high detector standoff voltage, small size, and low cost.

INFRARED EMITTING DIODE MAXIMUM RATINGS

Reverse Voltage	3.0 volts
Forward Current—Continuous	50 mA
Total Power Dissipation @ TA = 25°C	100 mW

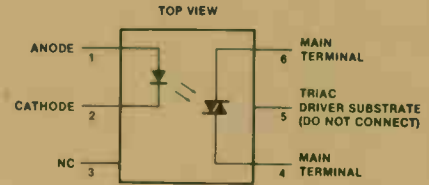
OUTPUT DRIVER MAXIMUM RATINGS

Off-State Output Terminal Voltage	250 Volts
On-State RMS Current TA = 25°C	100 mA
(Full Cycle, 50 to 60 Hz TA = 70°C)	50 mA
Peak Nonrepetitive Surge Current	1.2 A
(PW = 10ms, DC = 10%)	
Total Power Dissipation @ TA = 25°C	300 mW
Derate above 25°C	4.0 mW/°C

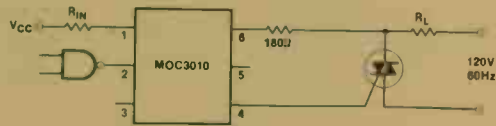
TOTAL DEVICE MAXIMUM RATINGS

Isolation Surge Voltage (1s)	7500 Vac
(Peak ac Voltage, 60 Hz, 5 Second Duration)	
Total Power Dissipation	330 mW
Junction Temperature Range	-40 to +100°C
Ambient Operating Temperature Range	-40 to +70°C
Storage Temperature Range	-40 to +150°C
Soldering Temperature (10s)	260°C

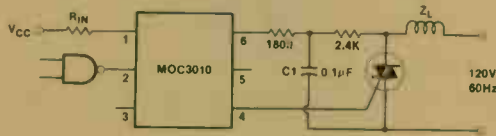
PIN CONNECTION



APPLICATIONS



Resistive Load

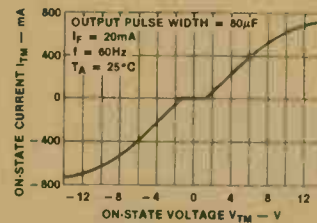


Inductive Load with Sensitive Gate Triac
(IGT ≤ 15mA)

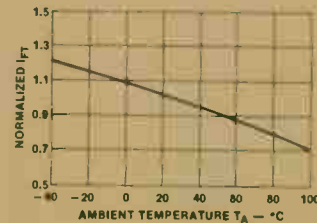


Inductive Load with Non-Sensitive Gate Triac
(15mA IGT, 50mA)

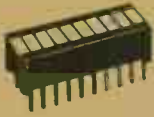
TYPICAL CHARACTERISTICS



On-State Current vs On-State Voltage



Trigger Current vs Temperature



HIGH EFFICIENCY RED BAR GRAPH DISPLAY

MV57164
276-081

GENERAL DESCRIPTION

The MV57164 is a 10 segment bar graph display with separate anodes and cathodes for each light segment. The packages are end stackable.

FEATURES

- Large segments, closely spaced
- End stackable
- Fast switching, excellent for multiplexing
- Low power consumption
- Directly compatible with IC's
- Wide viewing angle
- Standard .3" DIP leading spacing

ABSOLUTE MAXIMUM RATINGS

(25°C Free Air Temperature Unless Otherwise Specified)

Power dissipation	750mW
Continuous forward current	
Total	300 mA
Per segment	30 mA
Reverse voltage	
Per segment	6.0 V
Storage and operating temperature	-40 to +85°C
Solder time 5 sec.	260°C

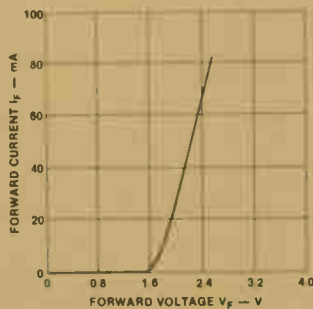
TYPICAL THERMAL CHARACTERISTICS

Thermal resistance junction to free air Φ_{JA}	160° C/W
Wavelength temperature coefficient (case temp.)	1.0 A/°C
Forward voltage temperature coefficient	-2.0 mV/°C

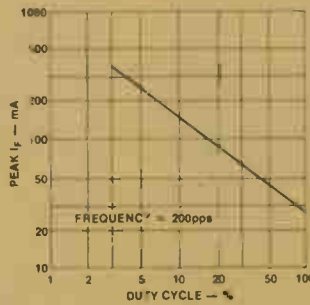
ELECTRO-OPTICAL CHARACTERISTICS

Forward Voltage	2.5 V
Peak emission wavelength	630nm
Spectral line half width	40nm
Dynamic resistance	
Segment	26 ohms
Capacitance	35 pF
Switching Time	400 ns
Reverse Voltage	6.0 V

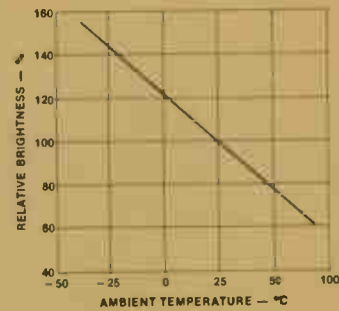
TYPICAL CHARACTERISTICS



Forward Current vs Forward Voltage

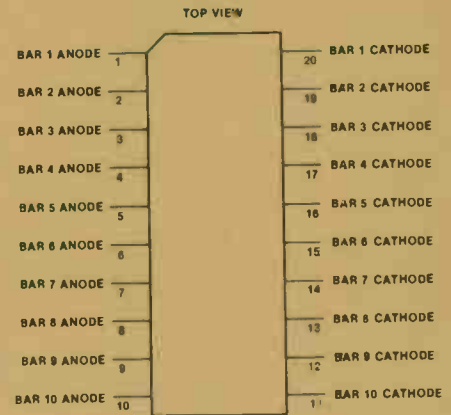


Luminous Intensity vs Forward Current

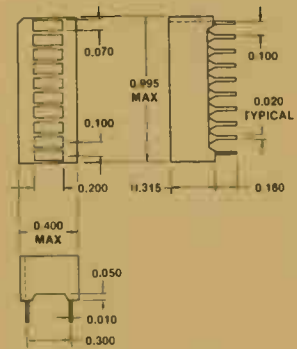


Luminous Intensity vs Ambient Temperature

PIN CONNECTION



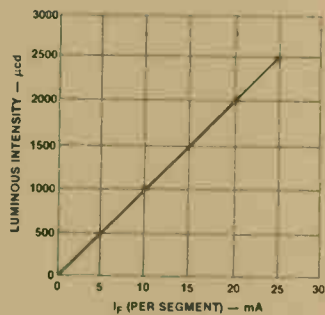
DIMENSIONAL DIAGRAM



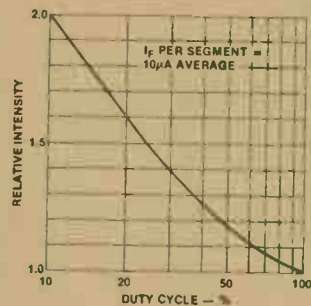
OPTOELECTRONIC (DISPLAY)

MV57164 276-081

TYPICAL CHARACTERISTICS (Cont'd)



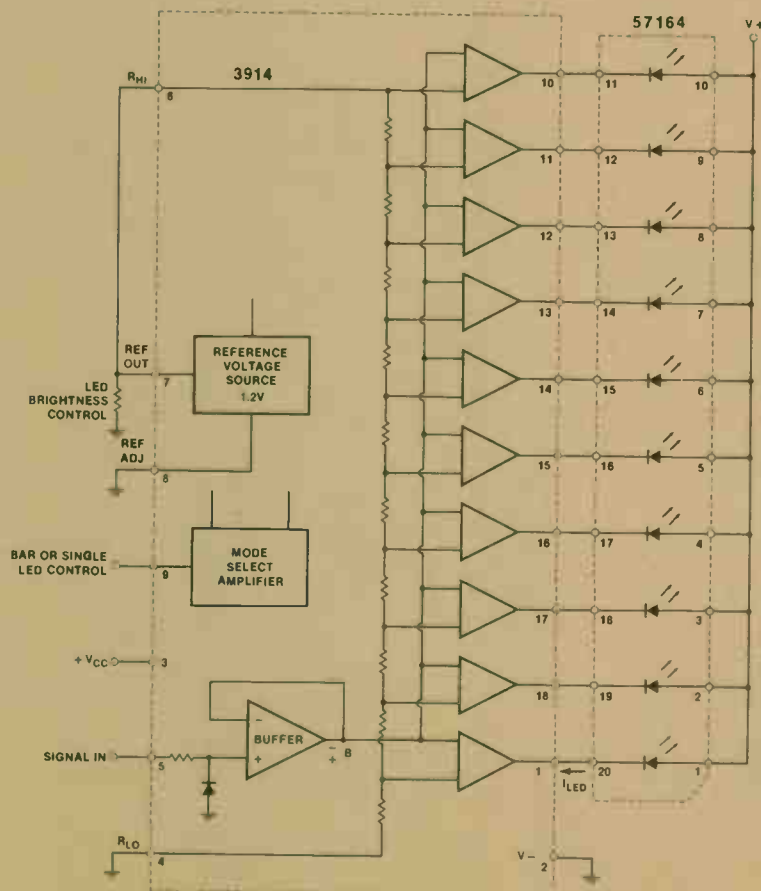
Maximum Peak Current vs Duty Cycle

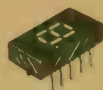


Luminous Intensity vs Duty Cycle

TYPICAL APPLICATION

Typical Drive Circuit





0.3" SOLID STATE SEVEN SEGMENT DISPLAY

276-053

GENERAL DESCRIPTION

The 276-053 is a common anode LED numeric display. The large 0.3" high character size generates a bright, continuously uniform 7 segment display. Designed for viewing distances of up to 10 feet, this single digit display has been human engineered to provide a high contrast ratio and wide viewing angle.

FEATURES

- Fits 14 pin DIP socket
- Excellent character appearance—continuous uniform segments; wide viewing angle, high contrast
- IC compatible—1.6 V per segment
- Standard 0.3" DIP lead configuration; PC board or standard socket mountable
- Both left and right decimal points

APPLICATIONS

- Electronic calculators
- TVs
- Radios
- Frequency counters
- Digital clocks

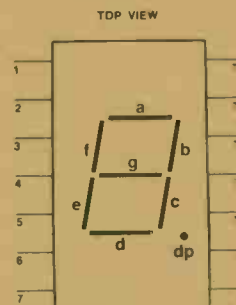
RADIANT CHARACTERISTICS (IF=20mA) T_A=25°C

Luminous Intensity 210 mcd
 Wavelength (Peak) 655 nm

ABSOLUTE MAXIMUM RATINGS

Power Dissipation T_A=25°C 400 mW
 Average Forward Current/Segment or Decimal Pt. T_A=25°C 25 mA
 Peak Forward Current/Segment or Decimal Pt. T_A=12°C
 (Pulse Duration 500µs) 150 mA
 Reverse Voltage per Segment or Decimal Pt. 6 V
 Operating Temperature Range -20 to +85°C
 Storage Temperature Range -20 to +85°C
 Max Solder Temperature 1/16" Below Seating Plane (t ≤ 5 sec.) 230°C

PIN CONNECTION



COMMON ANODE	
PIN	FUNCTION
1	CATHODE a
2	CATHODE f
3	ANODE
4	NO PIN
5	NO PIN
6	CATHODE dp
7	CATHODE e
8	CATHODE d
9	NO CONNECTION
10	CATHODE c
11	CATHODE g
12	NO PIN
13	CATHODE b
14	ANODE

ALTERNATE CONNECTION	
PIN	FUNCTION
1	NO PIN
2	ANODE
3	CATHODE f
4	CATHODE g
5	CATHODE e
6	CATHODE d
7	NO PIN
8	NO PIN
9	ANODE
10	CATHODE dp
11	CATHODE c
12	CATHODE b
13	CATHODE a
14	NO PIN

CADMIUM SULPHIDE PHOTOCELL

276-116

GENERAL DESCRIPTION

A cadmium sulphide photo cell is a light variable resistor which is most sensitive in the green to yellow portion of the light spectrum. With it you can use light to control many electronic devices. Max. resistance .5 meg., min. resistance 100 ohms, max. voltage 170 V, max. wattage .2 watts, rugged epoxy case.

APPLICATIONS

- Night light
- Light control
- Burglar alarm
- Relay

SPECIFICATIONS

• Shape Round
 • Sensitive Area07 sq. in.
 • Weight 1.56 gms.
 • Resistance at 1 Ftc (2870°K) 1.7k Ohms .40"
 • Typical Resistance 100 Ftc (2870°K) 100 Ohms
 • Resistance Dark Minimum (1 Minute) 0.5 Megohms

ABSOLUTE MAXIMUM RATINGS

Max. Applied Voltage (ac or dc) 170 V peak
 Max. Power Dissipation at 25°C 2 watts
 Power Derating Linearly to 0 @ 75°C
 Operating Temp Range -40 to +75°C

CONNECTIONS

BOTTOM VIEW



OPTOELECTRONIC (DETECTOR) (EMITTER)

276-142

INFRARED EMITTER AND DETECTOR

GENERAL DESCRIPTION

The 276-142 is a pair consisting of an infrared photodetector and an infrared-emitting diode. The diode is capable of emitting radiant energy in the infrared region of the spectrum.

FEATURES

- Spectrally and mechanically matched
- High power efficiency . . . typically 5 percent at 25°C

ABSOLUTE MAXIMUM RATINGS

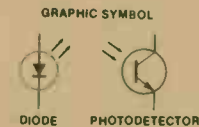
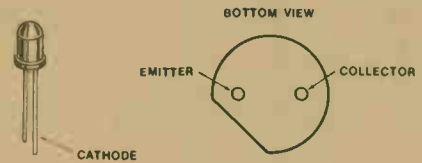
Photodetector

Collector-Emitter Voltage	20V
Collector Current	25mA
Continuous Device Dissipation at (or below) 25°C Free-Air Temperature	50mW
Operating Free-Air Temperature Range	-40 to +80°C
Storage Temperature Range	-40 to +85°C
Lead Temperature 1/16 Inch from Case for 5 Seconds	240°C

Infrared-Emitting Diode

Reverse Voltage	2V
Continuous Forward Current	40mA
Radiant Power Output	0.5mW
Wavelength at Peak Emission	915mm

PIN CONNECTION



276-143

SUPER HIGH OUTPUT INFRARED EMITTER

GENERAL DESCRIPTION

This device is a gallium aluminum arsenide super high output infrared emitting diode. It emits non-coherent, infrared energy at 880 nm and provides significantly improved coupling efficiency to Si photo transistors and photodiodes.

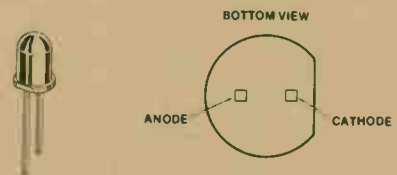
FEATURES

- GaAlAs heterostructure material. Emits at 880 nm
- Super high conversion efficiency/maximum power output
- 2x total radiant power output of 940 nm product
- Increased coupling efficiency to silicon opto devices
- Emits 3 times the energy of conventional IR emitter

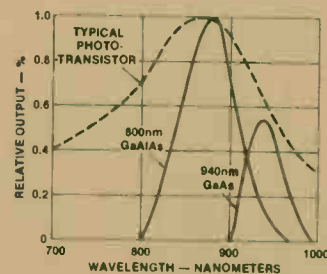
ABSOLUTE MAXIMUM RATING

Average Power Dissipation	75 mW
Average Fwd. Current	45 mA
Reverse Voltage	3.0 V
Peak Pulse Current 100µsec Duration @ 10 pps	0.30 A
Forward Voltage	1.75 V
Temp Coef of Fwd Voltage	-1.8 mV/DC
Dynamic Resistance	1.5 ohms
Angle between Half Power Intensity Points	40°
Peak Wavelength	880 nm
Line Halfwidth	80 nm
Reverse Current, Max. at 25°C	10µA
Response Time (10% to 90%)	1.5 µs
Operating, Storage, or Process Temp Range	-40 to +85°C
Solder Temp. 5 Sec 1/16 inch from case	260°C

PIN CONNECTION



SPECTRAL MATCHING COMPARISON



Relative Output vs Wavelength

2.5×5cm SILICON SOLAR CELL

276-124

GENERAL DESCRIPTION

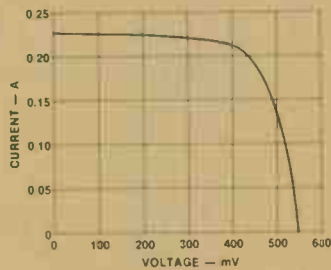
A solar cell is a silicon semiconductor device which converts light energy directly to electricity. A typical 2.5×5cm cell will produce 0.42 volt and up to .18 amp of usable current. The power generated is affected by the load resistance (circuit powered by cell) strength of sunlight and temperature.

Be extremely careful when soldering leads. Use only a very fine wire (#26 or thinner) and use a small soldering iron (less than 50 watts). Solar cells may be connected in series to produce more voltage and in parallel for more current.

ABSOLUTE MAXIMUM RATINGS

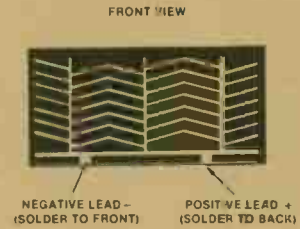
Voltage (Open Circuit):	0.55V
Current (short circuit):	0.2A
(Test conditions: Full sunlight at noon on a clear day at 25°C (76°F))	

TYPICAL CHARACTERISTICS



Current vs Voltage

CONNECTIONS



5 3/4 × 4 in SILICON SOLAR PANEL

277-1250

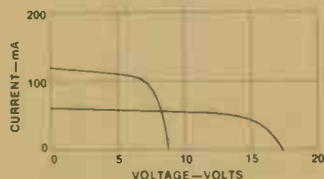
GENERAL DESCRIPTION

This solar panel is a silicon semiconductor device which converts light energy directly into electricity. The 5 3/4" × 4" panel will produce a minimum of 40 mA with the switch in the 12 V position or 80 mA in the 6 V position. The power generated is affected by load resistance (circuit powered by panel), strength of sunlight and temperature.

ABSOLUTE MAXIMUM RATINGS

6V Mode	
No Load Voltage (Open Circuit)	8.6 V
No Load Current (Short Circuit)	122 mA
Voltage (200 Ω Load)	8.0 V
Current (200 Ω Load)	42 mA
12V Mode	
No Load Voltage (Open Circuit)	17.5 V
No Load Current (Short Circuit)	60 mA
Voltage (200 Ω Load)	10.5 V
Current (200 Ω Load)	52 mA

TYPICAL CHARACTERISTICS



Current vs Voltage



VHF MODULATOR

UM1285-8 VHF MODULATOR 277-221



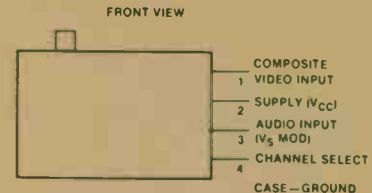
GENERAL DESCRIPTION

The UM1285-8 is a high performance intercarrier vestigial sideband modulator which is primarily intended for use in color TV games, home computer, graphics, teletext and view data adapters. The modulator has a very linear transfer characteristic which ensures good chroma levels and freedom from sync compression and associated frame and line jitter problems, good subcarrier inter modulation performance minimizes the on screen bar pattern due to chroma and sound subcarrier beats.

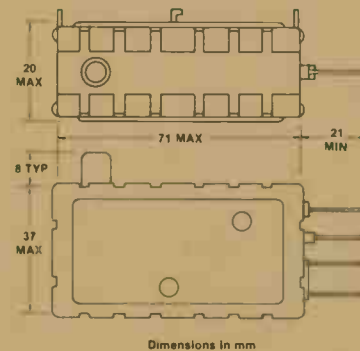
FEATURES

- Compact & low profile
- Rugged & stable
- Good modulation linearity
- Low chroma sound beat product (55 dB typ)
- Pretuned vision carriers Ch 3, Ch 4
- Pretuned sound subcarrier 4.5 MHz
- Pretuned vestigial sideband filter
- Built-in voltage regulator
- Negative transfer characteristic
- For color application
- 75 ohm output from a standard phono socket

PIN CONNECTION



DIMENSIONAL DIAGRAM



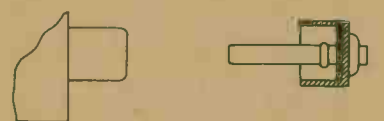
ABSOLUTE MAXIMUM RATINGS

Voltage between Pin 1, 3, 4, and Case Ground	- 3.0 to + 15 V
Voltage between Pin 3 and V _{CC}	- 3.0 to + 8.0 V (Refer to table for high voltage application.)
Operating Temperature Range	0 to + 45°C
Storage Temperature Range	- 20 to + 70°C

ELECTRICAL CHARACTERISTICS

V _{CC}	+ 5.8 to 6.2 V (Refer to table for higher supply voltage application.)
RF Output Load	75Ω
Channel 3 Video Carrier	61.25 MHz
Channel 4 Video Carrier	67.65 MHz
Sound Carrier	4.500 MHz
Video Carrier output (V _{mod} = 2.2 V)	1.5 mVrms
Video Carrier output (V _{mod} = 2.8 V)	18 dB WRT V _O (HI)
Sound Carrier output	22 dB WRT V _O (HI)
Spurious Harmonic	30 dB WRT V _O (HI)
Voltage Standing Wave Ratio (CH 3 and CH 4)	1.7
ΔF for Change in Temperature	±10 kHz/°C
ΔF for Change in Temperature	±750 Hz/°C
ΔF for 1 Volt Change in V _{CC}	±30 kHz/V
ΔF for 1 Volt Change in V _{CC}	±5 kHz/V
RF Output Impedance	75Ω
- 3DB Bandwidth (RF)	
CH 3	14 MHz
CH 4	5.0 MHz
Supply Current	30 mA
Frequency modulating	8 kHz/Volt
Sensitivity Chroma/Sound Beat Level	55 dB WRT V _O (HI)

RF OUTPUT SOCKET



Phono Socket

Typical Phono Plug

TABLE

Supply Voltage V _{CC}	Volt	6.0	7.5	9.0	12.0	15.0
Series Resistor R _S	Ohm	0	47	100	180	270

Series resistor with respect to supply voltage

TYPICAL CHARACTERISTICS

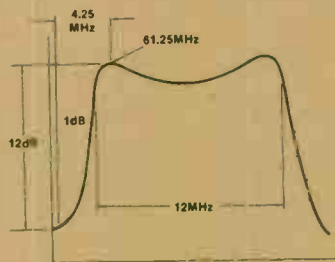
The UM1285-8 is designed to work over a wide range of supply voltage from 6 to 15 V (V_{CC}). A built-in 5.0 V (V_{DD}) voltage regulator is provided to achieve excellent stability against voltage change. A series resistor is recommended in putting between power source and modulator supply input for purpose of current limiting.

Modulation occurs when a positive going voltage is applied to the modulation input (video) pin. The transfer characteristic is negative, that means a positive input causes the RF output to decrease. Peak RF output is specified when the video input is at 2.2 V.

RF channel frequency of Ch 3 or Ch 4 can be selected by connecting channel select pin to ground level (0V) to have Ch 3, or open connection to have Ch 4.

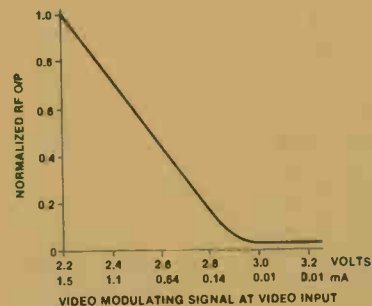
FCC APPROVABLE

The UM1285-8 is FCC approvable due to its very low radiation, stabilized carrier oscillators and vestigial side bank filter which ensures all side band components outside FCC limits are greater than 30 dB down.



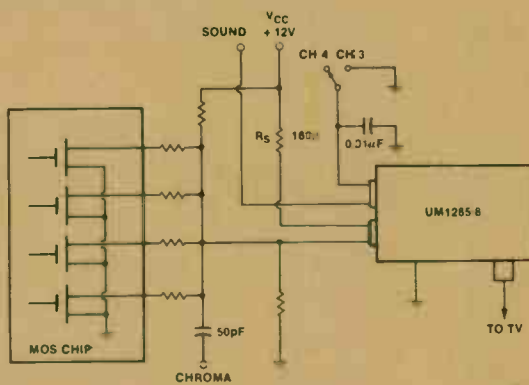
*Note: Subcarriers are > 18dB down wrt carrier at input to bandpass filter giving maximum out of band level of -30dB wrt carrier.

Typical Bandpass Filter Response

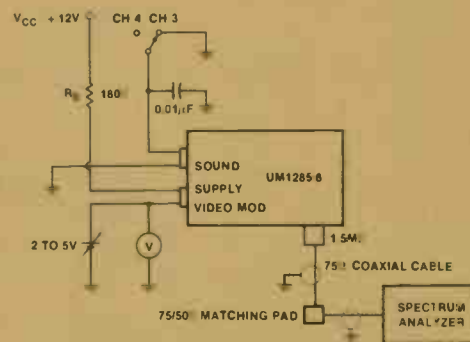


Typical Transfer Characteristic

TYPICAL APPLICATIONS



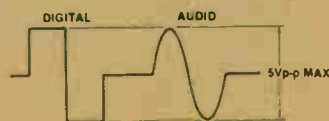
Typical Application



- Note 1 In case of testing with 50Ω I/P spectrum analyzer, matching pad 75/50 (attenuation 10dB) should be employed
- Note 2 Standard RF coaxial cable should be 1.5 meters long and 75Ω characteristic impedance.

Test Circuit

TYPICAL INPUT WAVEFORMS



Sound I/P Setup



Modulated Input Voltage Setup

TCM1512A RING DETECTOR/DRIVER
276-1302



GENERAL DESCRIPTION

The TCM1512A integrated circuit is designed for use as an alerting device in the line powered telephone. The IC (with a minimum of external components) is powered and activated by the telephone line's AC "ring" voltage to generate a signal suitable for driving piezo-electric "sound disc" transducers. In a typical telephone application this AC ring voltage can vary from 40 to 150 V_{RMS} over a frequency range of 14 to 68 Hz. The output signal is a square wave alternating between two frequencies in a ratio 1.14:1; and with the average of these two frequencies set at 1250 Hz, a "warble" rate or shift rate of approximately 10 Hz.

During standby (prior to activation) the ringer presents an impedance of 100K or greater to prevent any interference with parallel "offhook" telephones transmitting DTMF or voice frequencies. The IC is designed to handle lightning strikes on the line of 1500 V, 200 μsec duration. In addition, dial pulses from parallel phones are ignored so a false ringing of the bell (tapping) won't occur.

FEATURES

- On-chip full-wave rectifier
- High standby impedance
- Built-in lightning protection circuitry
- Built-in anti-"tapping" circuitry
- Built-in regulators
- Built-in static protection
- 0.8 through 2 kHz output frequency range
- Low external component count
- Push-pull drive of piezo transducers

ABSOLUTE MAXIMUM RATINGS

Continuous Input Voltage (Pin 1 ref. to Pin 8) (See note)	70 V
Continuous V _{CC} Supply (Pin 6 ref. to Pin 7) (See note)	63 V
Package Power Capability @25°C	1 W
Surge SCR On-State Current (On-Time ≤ 200 μsec)	0.9 A
Continuous Input Current (with SCR Triggered) (See note)	0.5 A _{RMS}
Operating Ambient Temperature	-20 to +70°C
Storage Ambient Temperature	-40 to +150°C

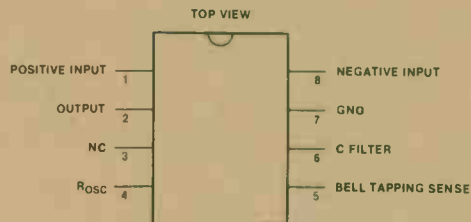
NOTE: Normally the IC is fed with an AC signal through a 2.2K resistor to guarantee compliance with these maximum ratings. Care should be taken when connecting a DC power supply to the IC to prevent the internal SCR from being fired which could result in damage to the IC.

TEST CIRCUIT

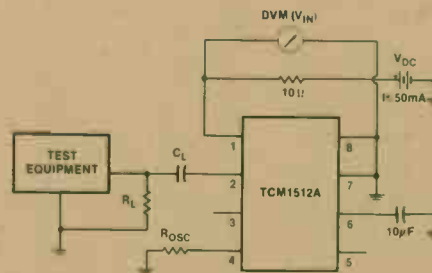
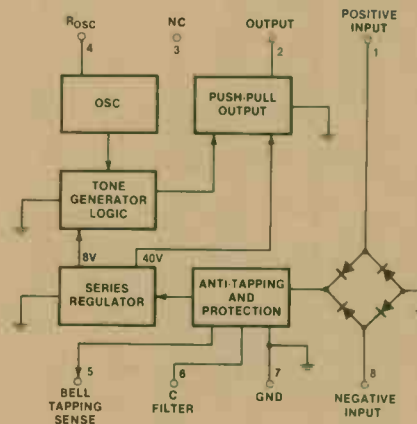
An oscilloscope can be used as the output "test equipment" for all the electrical measurements except output frequency, where a frequency counter should be used.

1. V_{IN} is the voltage measured across Pins 1 & 8 of the integrated circuit.
2. Threshold voltage is the input voltage V_{IN} measured the instant before the output (Pin 2) starts oscillating.
3. Care must be taken in attempting to measure SCR characteristics of the integrated circuit so as not to exceed absolute maximum. It is suggested that a curve tracer be used across Pins 1 & 8 with capacitor connection Pin 6 shorted to Pin 7 to simulate a standby transient effect of a discharged 10 μF filter capacitor.
4. DC output currents are measured in the steady state. Peak output current would normally be greater than specified.
5. The output frequency is measured across R_L using a frequency counter. The frequency counter measures and displays the average frequency of the output tones F_{AVG} (where F_{AVG} = the average of the high frequency of the low frequency which is integrated by the counter over a long period of time).
6. Oscillator drift is the deviation in output frequency due to change in temperature T_A or input voltage V_{IN} compared to the output frequency at T_A = 25°C and V_{IN} = 30 V. R_{OSC} is varied until the average output frequency F_{AVG} = 1250 Hz.
7. For most tests, Pin 5 is left open. Where specified, Pin 5 is activated by connecting a 2.2K resistor across Pins 5 & 6.

PIN CONNECTION



BLOCK DIAGRAM

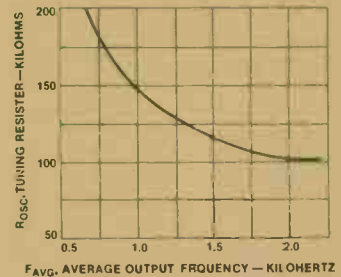


Test Circuit

TYPICAL CHARACTERISTICS

This first graph shows the typical average output frequency vs. oscillator tuning resistor (R_{OSC}). The curve shows the general trend that the IC's follow; however, the values will differ from IC to IC. The curve should not be used as an accurate design tool since IC's could vary more than $\pm 10\%$ from the values given in this graph.

The second graph shows the minimum operating voltage at tip and ring (20 Hz) vs. input capacitance C_1 as a function of load resistance. The dashed curve marked "threshold" shows the voltage necessary at tip and ring to produce a voltage between pin 6 and 7 large enough to trip an internal switch and start the output oscillating. However, depending on the load and input capacitance, the minimum operating voltage could be larger than the threshold voltage. The threshold voltage can turn the IC on for an instant until the load drains the 10 μF capacitor across pins 6 and 7 and then the IC would turn off again. Depending on R_{LOAD} and C_1 , the minimum operating voltage could be the true threshold voltage.



Tuning Resistor vs Average Output Frequency

TYPICAL APPLICATIONS

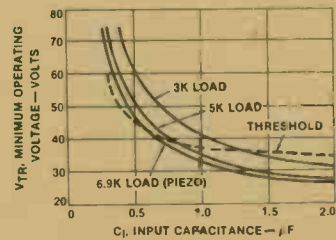
Input Circuitry

The TCM1512A has built-in circuitry to avoid "tapping," a false triggering due to transients. The IC is kept "OFF" (in standby) until the incoming signal has charged the capacitor on pins 6 and 7 to a threshold of approximately 8 volts through an internal zener and 8K resistor.

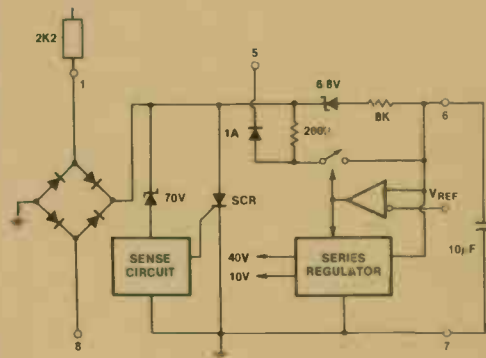
Connecting pin 5 and pin 6 bypasses the internal zener and thus reduces the threshold voltage, (V_{IN}). The connection, if made, should be with a resistor of not less than 2K.

The ring detector/driver IC has built-in transient protection circuitry which (with appropriate external circuitry) is designed to handle lightning strikes (1500 V/200 μsec) on a phone line. The IC is made up of a high current SCR triggered by a circuit that senses current (typically 70 mA) through the 70 V on-chip zener. The external 2.2K resistor is a necessary component to dissipate the energy when the SCR is turned on. Therefore, with an external resistor of 2.2K, a voltage transient of 224 V (peak) from tip to ring, will fire the SCR. (2200 $\Omega \times 0.07 A Pk + 70 V = 224 V (Pk)$). Note: Caution is required when a DC power supply is connected to the input pins (1 and 8). If the IC is subjected to a transient, it could possibly fire the SCR and would not turn off until the current supplied to it falls below the holding current I_H . The DC power supply provides constant current and would result in IC destruction.

The ring detector/driver IC has a standby impedance of greater than 100K. The IC achieves such a high impedance due to an on-chip series zener which presents a high impedance until its turn-on voltage (6.8V) is reached. However, when the IC reaches its threshold voltage (8V) across pins 6 and 7, an internal switch is closed which bypasses the 6.8 V zener. This allows for more efficient power transfer to the load when the IC is in the operating mode. In the operating mode the IC has an AC impedance determined largely from the output load.



Minimum Operating Voltage vs Input Capacitance

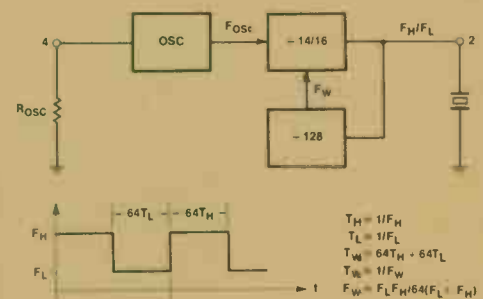


Input Circuitry

Output Tone Operation

The external resistor R_{OSC} sets the frequency of the IC's oscillator. The oscillator frequency F_{OSC} is then divided by a divide-by-14 counter for the high frequency F_H and a divide-by-16 counter for the low frequency F_L . The output frequencies are then divided by a divide-by-128 counter to establish the "warble rate." The warble rate is the alternation between the high frequency F_H and the low frequency F_L . Therefore, by changing the oscillator resistor R_{OSC} , the pitch of the output tones (F_H/F_L) and the warble rate between the tones can be set to the desired value. Oscillator drift is kept to a minimum (-1% to $\pm 0.5\%$) during varying input voltages and operating temperatures due to an on-chip 10 V regulator and circuit design techniques. Tolerance of the output frequencies (F_H/F_L) from IC to IC are dependent upon IC tolerances and R_{OSC} tolerance and is normally in excess of $\pm 10\%$.

Oscillator Stability: It is recommended that on PCB's, R_{OSC} be located close to pin 4 (short lead) and be surrounded by ground plane. Also, pin 3 (N/C) should be grounded. These measures will prevent capacitive coupling from the output to the master oscillator, which may cause oscillator instability.



Output Tone Operation

TCM1512A 276-1302

TYPICAL APPLICATIONS (Cont'd)

Telephone Application

The primary application for the TCM1512A ring detector/driver IC is in the telephone set.

This TCM1512A ring detector/driver IC is designed for use in telephone sets to detect ring voltages and to drive a piezo-ceramic disc transducer, thus replacing the electromechanical bell. It can produce sound with efficiency comparable to that obtainable from a type 500 set. The typical output signal produces a pleasant but attention drawing sound with an average frequency of 1250 Hz. It is modulated between 1172 Hz and 1339 Hz at a 9.8 Hz warble rate. These output frequencies and the warble rate are adjustable by varying the value of the external R_{OSC} .

The network formed by the 1.8 μ F DC blocking capacitor, the 2.2K current limiting resistor, and the diode full wave bridge supply the IC power from the phone lines. The 1.8 μ F capacitor is "standard" with U.K. mechanical telephones and normally part of the hybrid network. The value of the capacitor (C1) affects turn-on time and the minimum input voltage. The incoming rectified AC signal is filtered by an external 10 μ F/100 V capacitor connected between pin 6 and 7. The value of this filter capacitor affects the turn-on time of the IC. More significantly, it is used with internal IC circuitry to suppress "tapping." Tapping is a false ringing of the bell due to pulses on the phone line from rotary dials or pulse dialing IC's.

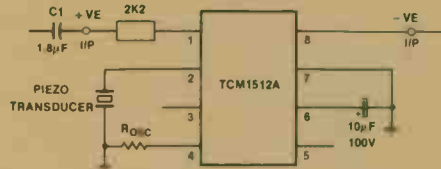
The TCM1512A incorporates a high standby input impedance to assure that "on-hook" telephones will not interfere with parallel (extension) "off-hook" telephones transmitting DTMF or voice frequency signals. Industry standards specify $< 100K$ for voice frequencies (700 Hz - 1.6 kHz) for input voltages up to 3 V_{RMS} . The impedance for operating voltages (during ring) is specified to be $< 8K$. The TCM1512A meets both of these requirements. The DC blocking capacitor (C1) and the filter capacitor could modify the value of the ringer input impedances. The more closely the load and IC impedance match the line impedance, the greater the power transfer to the load. A potentiometer in series with the piezo load could be useful as a volume control.

The minimum operating voltage at tip and ring can be altered by changing the value of two external components, C1 and R_{LOAD} . C1 is the DC blocking capacitor at tip and ring and R_{LOAD} is the equivalent resistance of the load which may be a piezo transducer or the primary winding of a transformer. In the electromechanical telephone, C1 is fixed at 1.8 μ F. However, if one is designing an all electronic telephone C1 and R_{LOAD} could be selected to achieve the desired minimum operating voltage.

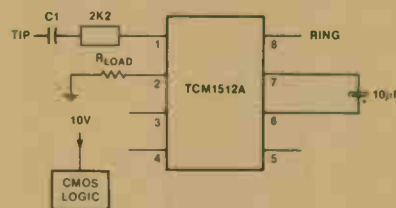
Alarm Circuit

This device contains all the active components necessary to build a security alarm system. A few external capacitors and resistors are required, along with a 16 V or 24 V transformer. The external 20 μ F capacitor stores voltage during alternate half-cycles that is added to the next half-cycle's voltage to generate 30 V (Pk) across pins 6 and 7. The voltage doubler allows the IC to turn on with lower supply voltages than are normally required.

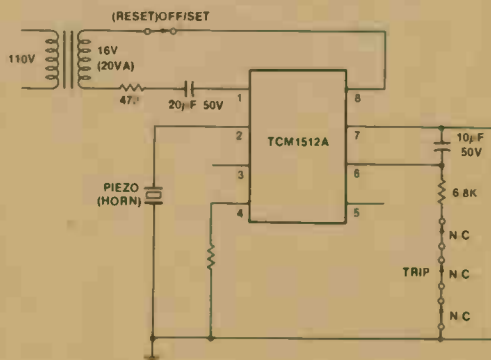
The IC is in standby (Off) when the "trip" switches are in their normally closed position. The 6.8K resistor doesn't allow the 10 μ F capacitor (pins 6 and 7) to charge up to its 11.5 V threshold voltage. The instant the trip switch is opened, the capacitor charges and the alarm sounds. Even if the trip switch is closed, the alarm will continue to sound. This is due to a latch circuit internal to the IC. The alarm is disarmed by opening the reset/set switch. when using a "piezo horn" for a transducer, sound pressure levels of 105 dB or greater can be achieved with as little as 10 mA supply current.



Telephone Application of Ring Detector/Driver



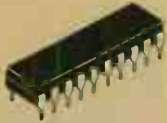
Input/Output Circuitry



Alarm Circuit

UNIVERSAL MONOLITHIC DUAL SWITCHED CAPACITOR FILTER

MF10
276-2329



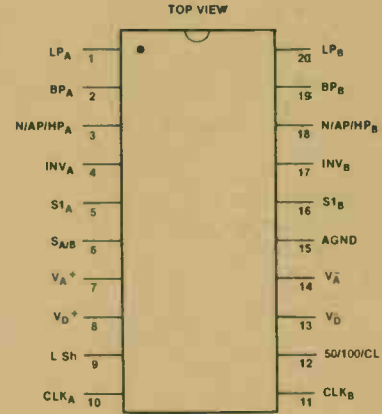
GENERAL DESCRIPTION

The MF10 consists of 2 independent and extremely easy to use, general purpose CMOS active filter building blocks. Each block, together with an external clock and 3 to 4 resistors, can produce various 2nd order functions. Each building block has 3 output pins. One of the outputs can be configured to perform either an allpass, highpass or a notch function; the remaining 2 output pins perform lowpass and bandpass functions. The center frequency of the lowpass and bandpass 2nd order functions can be either directly dependent on the clock frequency, or they can depend on both clock frequency and external resistor ratios. The center frequency of the notch and allpass functions is directly dependent on the clock frequency, while the highpass center frequency depends on both resistor ratio and clock. Up to 4th order functions can be performed by cascading the two 2nd order building blocks of the MF10; higher than 4th order functions can be obtained by cascading MF10 packages. Any of the classical filter configurations (such as Butterworth, Bessel, Cauer and Chebyshev) can be formed.

FEATURES

- Low cost
- 20-pin 0.3" wide package
- Easy to use
- Clock to center frequency ratio accuracy=0.6%
- Filter cutoff frequency stability directly dependent on external clock quality
- Low sensitivity to external component variation
- Separate highpass (or notch or allpass), bandpass, lowpass outputs
- $f_o \times Q$ range up to 200 kHz
- Operation up to 30 kHz

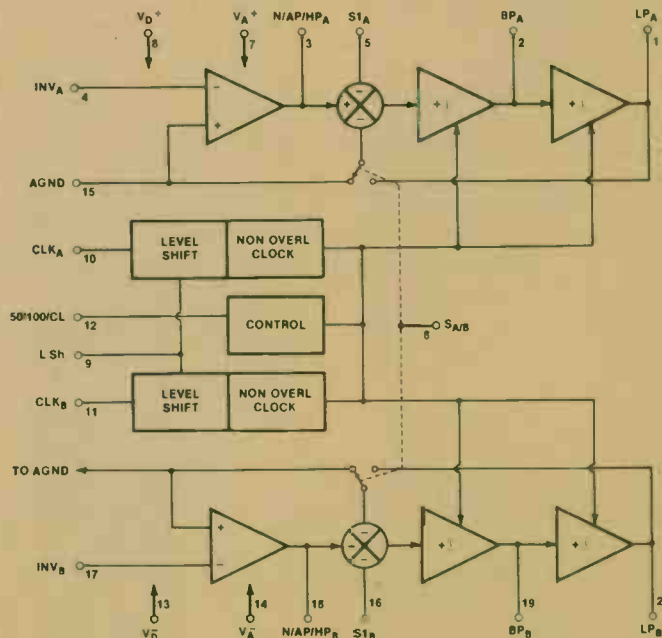
PIN CONNECTION



ABSOLUTE MAXIMUM RATINGS

Supply Voltage	7V
Power Dissipation	500mW
Operating Temperature	0 to 70°C
Storage Temperature	150°C
Lead Temperature (Soldering, 10 sec.)	300°C

BLOCK DIAGRAM



MF10 276-2329

TYPICAL APPLICATIONS

Mode 1A: Non-Inverting Bandpass, Inverting Bandpass, Lowpass

This is a minimum external component configuration (only 2 resistors) useful for low Q lowpass and bandpass applications. The non-inverting bandpass output is necessary for minimum phase filter designs.

Design Equations

$$f_o = \frac{f_{CLK}}{100} \text{ or } \frac{f_{CLK}}{50}$$

$$H_{OBP_1} = -\frac{R3}{R2}$$

$$Q = \frac{R3}{R2}$$

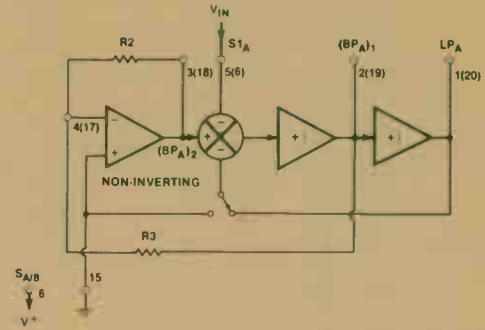
$$H_{OBP_2} = 1 \text{ (non-inverting)}$$

$$H_{OLP} = -1$$

Circuit Dynamics

$$H_{OBP_1} = Q \text{ (this is the reason for the low Q recommendation)}$$

$$H_{OLP(peak)} = Q \times H_{OLP}$$



Mode 1A

Mode 1: Notch, Bandpass and Lowpass

With the addition of just one more external resistor, the output dynamics are improved over Mode 1A to allow bandpass designs with a much higher Q. The notch output features equal gain above and below the notch frequency.

Design Equations

$$f_o = \frac{f_{CLK}}{100} \text{ or } \frac{f_{CLK}}{50}$$

$$H_{OLP} = -\frac{R2}{R1}$$

$$f_{notch} = f_o$$

$$H_{OBP} = -\frac{R3}{R1}$$

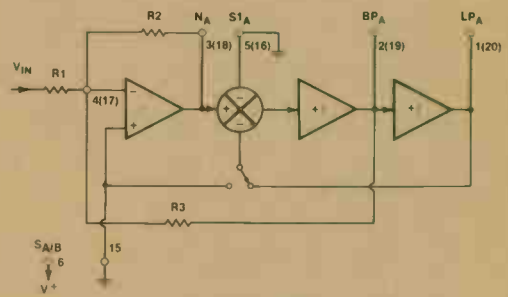
$$Q = \frac{R3}{R2}$$

$$H_{ON} = -\frac{R2}{R1} \text{ as } f \rightarrow 0 \text{ and as } f \rightarrow \frac{f_{CLK}}{2}$$

Circuit Dynamics

$$H_{OBP} = H_{OLP} \times Q = H_{ON} \times Q$$

$H_{OLP(peak)} = Q \times H_{OLP}$ (if the DC gain of the LP output is too high, a high Q value could cause clipping at the lowpass output resulting in gain non-linearity and distortion at the bandpass output).



Mode 1

Mode 2: Notch (with $f_n \leq f_o$), Bandpass and Lowpass

This configuration allows tuning of the clock to center frequency ratio to values greater than 100 to 1 or 50 to 1. The notch output is useful for designing elliptic highpass filters because the frequency of the required complex zeros (f_{notch}) is less than the frequency of the complex poles (f_o).

Design Equations

$$f_o = \frac{f_{CLK}}{100} \sqrt{1 + \frac{R2}{R4}} \text{ or } \frac{f_{CLK}}{50} \sqrt{1 + \frac{R2}{R4}}$$

$$H_{OBP} = -\frac{R3}{R1}$$

$$f_n = \frac{f_{CLK}}{100} \text{ or } \frac{f_{CLK}}{50}$$

$$H_{ON_1} \text{ (as } f \rightarrow 0) = \frac{-\frac{R2}{R1}}{1 + \frac{R2}{R4}}$$

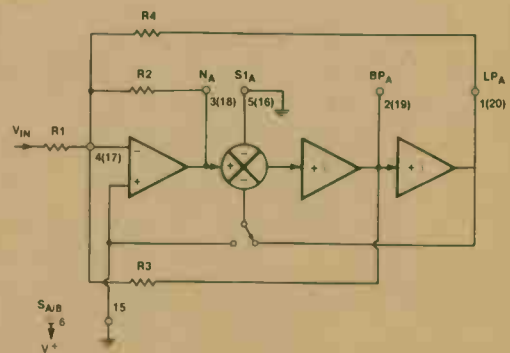
$$Q = \sqrt{1 + \frac{R2}{R4}} \times \frac{R3}{R2}$$

$$H_{ON_2} \text{ (as } f \rightarrow \frac{f_{CLK}}{2}) = -\frac{R2}{R1}$$

$$H_{OLP} = \frac{-\frac{R2}{R1}}{1 + \frac{R2}{R4}}$$

Circuit Dynamics

$$H_{OBP} = Q \sqrt{H_{OLP} \times H_{ON_2}} = Q \sqrt{H_{ON_1} \times H_{ON_2}}$$



Mode 2

TYPICAL APPLICATIONS (Cont'd)

Mode 3: Highpass, Bandpass and Lowpass

This configuration is the classical state variable filter implemented with only 4 external resistors. This is the most versatile mode of operation, since the clock to center frequency ratio can be externally tuned either above or below the 100 to 1 or 50 to 1 values. The circuit is suitable for multiple stage Chebyshev filters controlled by a single clock.

Design Equations

$$f_o = \frac{f_{CLK}}{100} \sqrt{\frac{R_2}{R_4}} \text{ or } \frac{f_{CLK}}{50} \sqrt{\frac{R_2}{R_4}}$$

$$Q = \sqrt{\frac{R_2}{R_4}} \times \frac{R_3}{R_2}$$

$$H_{OHP} = -\frac{R_2}{R_1}$$

$$H_{OBP} = -\frac{R_3}{R_1}$$

$$H_{OLP} = -\frac{R_4}{R_1}$$

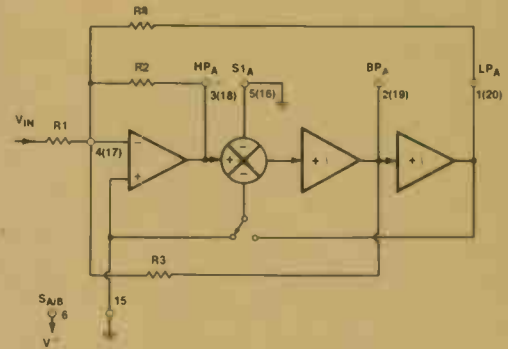
Circuit Dynamics

$$H_{OHP} = H_{OLP} \left(\frac{R_2}{R_4}\right)$$

$$H_{OBP} = Q \sqrt{H_{OHP} \times H_{OLP}}$$

$$H_{OLP (peak)} = Q \times H_{OLP}$$

$$H_{OHP (peak)} = Q \times H_{OHP}$$



Mode 3

Mode 3A: Highpass, Bandpass, Lowpass and Notch

A notch output is created from the circuit of Mode 3 by summing the highpass and lowpass outputs through an external op amp. The ratio of the summing resistors R_h and R_l adjusts the notch frequency independent of the center frequency. For elliptic filter designs, each stage combines a complex pole pair (at f_o) with a complex zero pair (at f_{notch}) and this configuration provides easy tuning of each of these frequencies for any response type. When cascading several stages of the MF10 the external op amp is needed only at the final output stage. The summing junction for the intermediate stages can be the inverting input of the MF10 internal op amp.

Design Equations

$$f_o = \frac{f_{CLK}}{100} \sqrt{\frac{R_2}{R_4}} \text{ or } \frac{f_{CLK}}{50} \sqrt{\frac{R_2}{R_4}}$$

$$Q = \sqrt{\frac{R_2}{R_4}} \times \frac{R_3}{R_2}$$

$$f_{notch} = \frac{f_{CLK}}{100} \sqrt{\frac{R_h}{R_l}} \text{ or } \frac{f_{CLK}}{50} \sqrt{\frac{R_h}{R_l}}$$

$$H_{OHP} = -\frac{R_2}{R_1}$$

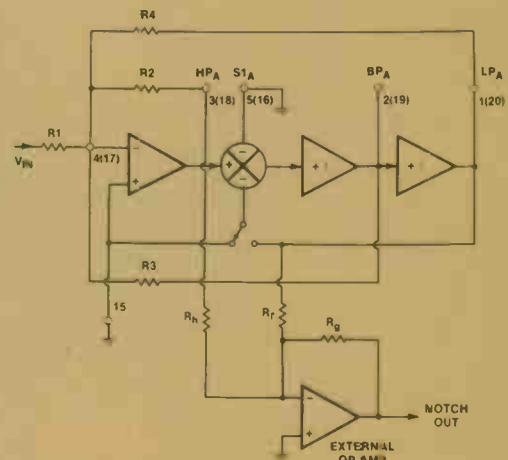
$$H_{OLP} = -\frac{R_4}{R_1}$$

$$H_{OBP} = -\frac{R_3}{R_1}$$

$$H_{ON} \text{ (at } f = f_o) = \left| Q \left(\frac{R_l}{R_h} H_{OLP} - \frac{R_h}{R_l} H_{OHP} \right) \right|$$

$$H_{ON_l} \text{ (as } f \rightarrow 0) = \frac{R_h}{R_l} \times H_{OLP}$$

$$H_{ON_h} \text{ (as } f \rightarrow \frac{f_{CLK}}{2}) = \frac{R_l}{R_h} \times H_{OHP}$$



Mode 3A

Mode 4: Allpass, Bandpass and Lowpass

Utilizing the S_{1A} (S_{1B}) terminal as a signal input, an allpass function can be obtained. An allpass can provide a linear phase change with frequency which results in a constant time delay. This configuration restricts the gain at the allpass output to be unity.

Design Equations

$$f_o = \frac{f_{CLK}}{100} C_1 \frac{f_{CLK}}{50}$$

$$f_o \text{ (frequency of complex zero pair)} = f_o$$

$$Q = \frac{R_3}{R_2}$$

$$Q_2 \text{ (Q of complex zero pair)} = \frac{R_3}{R_1}$$

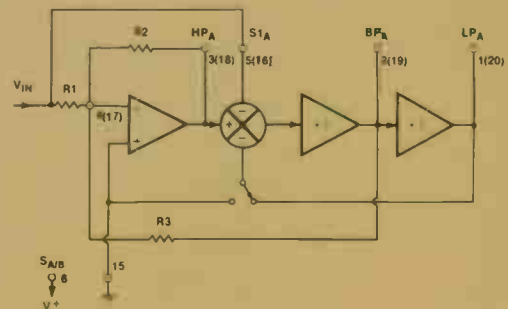
$$H_{OAP} = -\frac{R_2}{R_1} = -1$$

$$H_{OLP} = -\left(\frac{R_2}{R_1} + 1\right) = -2$$

$$H_{OBP} = -\left(1 + \frac{R_2}{R_1}\right) \frac{R_3}{R_2} = -2 \frac{R_3}{R_2}$$

Circuit Dynamics

$$H_{OBP} = H_{OLP} \times Q = (H_{OAP} + 1)Q$$



Mode 4

MF10 276-2329

TYPICAL APPLICATIONS (Cont'd)

Mode 5: Complex Zeros (C.z), Bandpass and Lowpass

This mode features an improved allpass design over that of Mode 4, in that it maintains a more constant amplitude with frequency at the complex zeros (C.z) output. The frequencies of the pole pair and zero pair are resistor tunable.

Design Equations

$$f_o = \frac{f_{CLK}}{100} \sqrt{1 + \frac{R2}{R4}} \text{ or } \frac{f_{CLK}}{50} \sqrt{1 + \frac{R2}{R4}}$$

$$f_z = \frac{f_{CLK}}{100} \sqrt{1 - \frac{R1}{R4}} \text{ or } \frac{f_{CLK}}{50} \sqrt{1 - \frac{R1}{R4}}$$

$$Q = \frac{R3}{R2} \sqrt{1 + \frac{R2}{R4}}$$

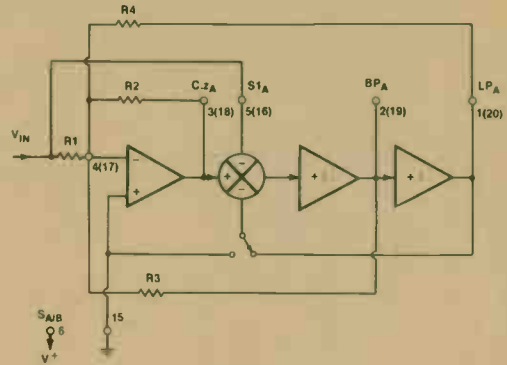
$$Q_z = \frac{R3}{R1} \sqrt{1 - \frac{R1}{R4}}$$

$$H_{O(C.z)} \text{ as } f \rightarrow 0 = \frac{R2(R4 - R1)}{R1(R2 + R4)}$$

$$H_{O(C.z)} \text{ as } f \rightarrow \frac{f_{CLK}}{2} = \frac{R2}{R1}$$

$$H_{OBP} = \frac{R3}{R2} \left(1 + \frac{R2}{R1}\right)$$

$$H_{OLP} = \frac{R4}{R1} \left(\frac{R2 + R1}{R2 + R4}\right)$$



Mode 5

Mode 6A: Single Pole, Highpass and Lowpass

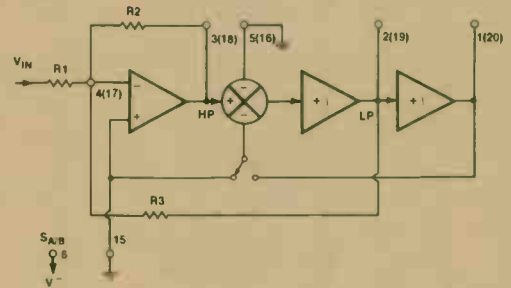
By using only one of the internal integrators, this mode is useful for creating odd-ordered cascaded filter responses by providing a real pole that is clock tunable to track the resonant frequency of other 2nd order MF10 sections. The corner frequency is resistor tunable.

Design Equations

$$f_c \text{ (cut-off frequency)} = \frac{f_{CLK}}{100} \left(\frac{R2}{R3}\right) \text{ or } \frac{f_{CLK}}{50} \left(\frac{R2}{R3}\right)$$

$$H_{OLP} = -\frac{R3}{R1}$$

$$H_{OHP} = -\frac{R2}{R1}$$



Mode 6A

Mode 6B: Single Pole Lowpass (Inverting and Non-Inverting)

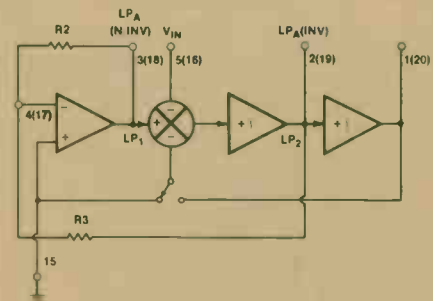
This mode utilizes only one of the integrators for a single pole lowpass, and the input op amp as an inverting amplifier, to provide non-inverting lowpass output. Again, this mode is useful for designing odd-ordered lowpass filters.

Design Equations

$$f_c \text{ (cut-off frequency)} = \frac{f_{CLK}}{100} \left(\frac{R2}{R3}\right) \text{ or } \frac{f_{CLK}}{50} \left(\frac{R2}{R3}\right)$$

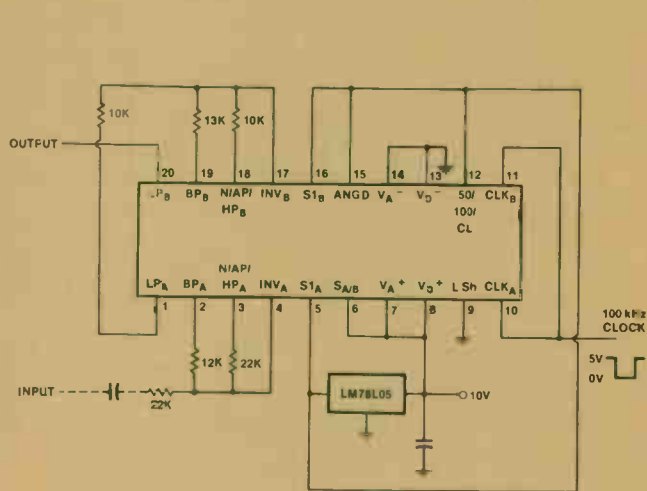
$$H_{OLP} \text{ (inverting output)} = -\frac{R3}{R2}$$

$$H_{OLP} \text{ (non-inverting output)} = + 1$$

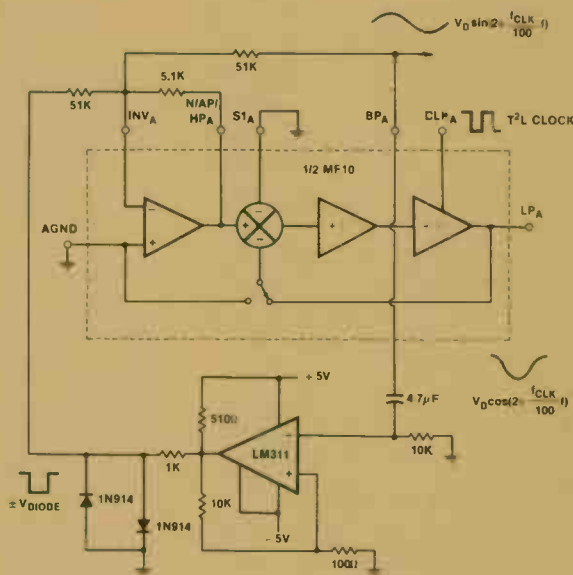


Mode 6B

TYPICAL APPLICATIONS (Cont'd)



Only 6 resistors required for this 4th order, 1 kHz Butterworth lowpass filter. This example also illustrates single-supply biasing.

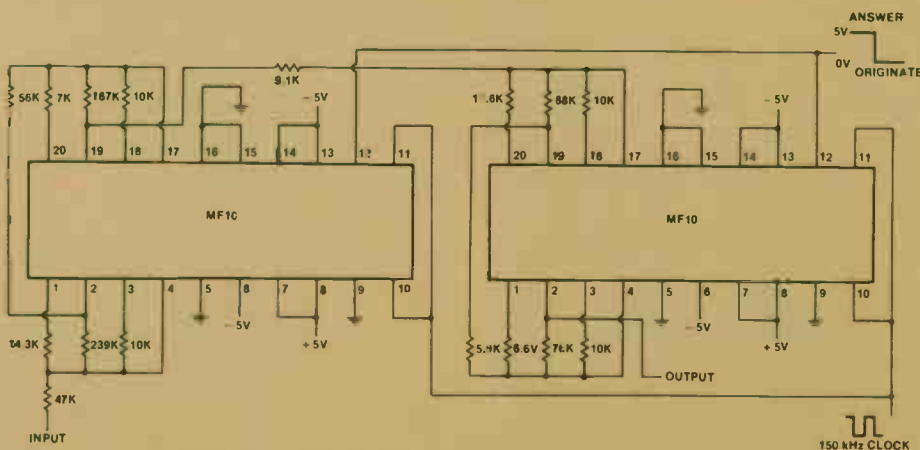


Generating Quadrature Sinewaves from a T^L Clock

300 Baud, Full-Duplex Modem Filter

Finally, as a graphic illustration of the simplicity of filter implementation using the MF10, this is a complete 300 baud, full-duplex modem filter. The filter is an 8th order, 1 dB ripple Chebyshev bandpass which functions as both an 1170 Hz originate filter and a 2125 Hz answer filter. Control of answer or originate operation is set by the logic level at the 50/100/CL input so that only one clock frequency is required. The overall filter gain is 22 dB.

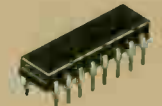
Construction of this filter on a printed circuit board would obviously be more compact than an RC active filter approach and much more cost effective for the level of precision required. An even more attractive implementation from a space savings point of view would be a hybrid circuit approach. A film resistor array connecting to two MF10 die could produce the entire filter in one package requiring only 7 external connections for input, output, supplies, etc.



Complete Full-Duplex 300 Baud Modem Filter

74LS367
276-1835

3-STATE HEX BUFFER



GENERAL DESCRIPTION

This device is a high speed hex buffer with 3-state outputs. It is organized as a single 6-bit or 2-bit/4-bit, with inverting or non-inverting data (D) paths. The outputs are designed to drive 15 TTL unit loads or 60 low power schottky loads when the enable (\bar{E}) is LOW.

When the output enable input (\bar{E}) is HIGH, the outputs are forced to a high impedance "off" state. If the outputs of the 3-state devices are tied together, all but one device must be in the high impedance state to avoid high currents that would exceed the maximum ratings. Designers should ensure that output enable signals to 3-state devices whose outputs are tied together are designed so there is no overlap.

FEATURES

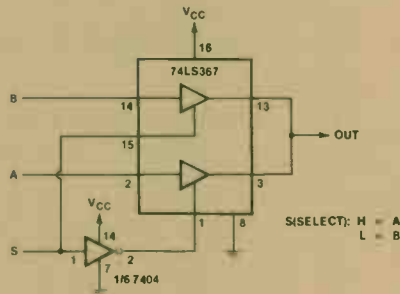
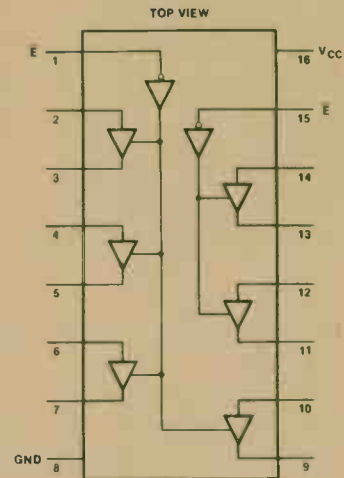
- Will drive 15 TTL unit loads
- Will drive 60 low power schottky loads

ABSOLUTE MAXIMUM RATING

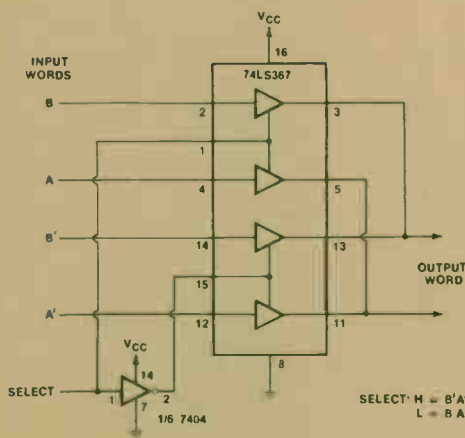
Supply Voltage V_{CC}	5.25 V
Input High Voltage	2.0 V
Input Low Voltage	0.8 V
Input Clamp Diode Voltage	-1.5 V
Input High Current ($V_{CC} = \text{Max.}, V_{IN} = 2.7 \text{ V}$)	20 μA
Input Low Current ($V_{CC} = \text{Max.}, V_{IN} = 0.4 \text{ V}$)	-0.4 mA
Operating Temperature	0 to +70°C

TYPICAL APPLICATIONS

PIN CONNECTION



1-of-2 Data Selector

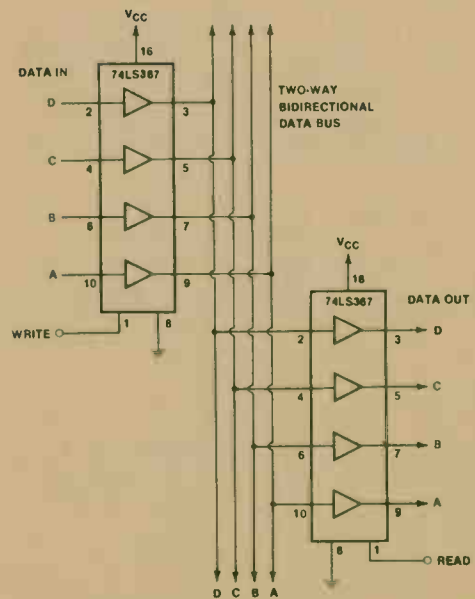


1-of-2 Data Selector

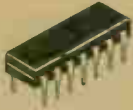
TRUTH TABLE

INPUTS		OUTPUT
\bar{E}	D	
L	L	L
L	H	H
H	X	(Z)

H = High Level
L = Low Level
X = Immaterial
Z = High Impedance



Bidirectional Data Bus



QUAD TWO-INPUT NAND GATE

7400
276 1801

GENERAL DESCRIPTION

This device employs TTL logic to achieve high speed at moderate power dissipation. It provides the basic functions used in the implementation of digital integrated circuit systems.

For best noise immunity and switching speed, unused inputs should not be left floating, but should be held between 2.4 V and the absolute maximum input voltage.

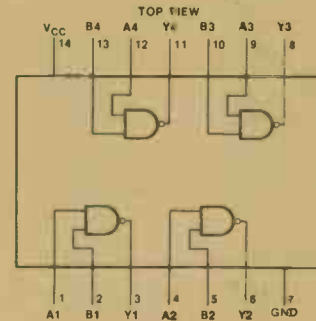
Two possible ways at handling unused inputs are:

- (1) Connect unused inputs to V_{CC} . For all multi-emitter conventional TTL inputs. A 1 to 10K ohm current limiting series resistor is recommended, to protect against V_{CC} transients that exceed 5.5 V.
- (2) Connect the unused input to the output of an unused gate that is forced high.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	5.25 V
Input High Voltage	2.0 V
Input Low Voltage	0.8 V
Input Clamp Diode Voltage ($V_{CC} = 5.0 V, I_{IN} = -12 mA$)	-1.5 V
Input High Current ($V_{CC} = Max., V_{IN} = 2.4 V$)	40 μA
Input Low Current ($V_{CC} = Max., V_{IN} = 0.4 V$)	-1.6 mA
Operating Temperature	0 to +70°C

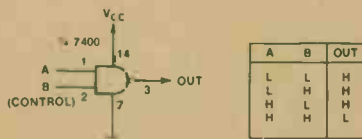
PIN CONNECTION



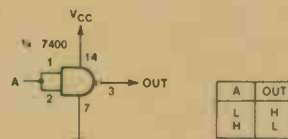
TRUTH TABLE

$$Y = \overline{AB}$$

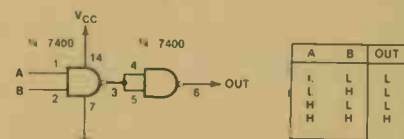
TYPICAL APPLICATIONS



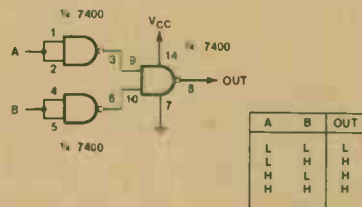
Control Gate



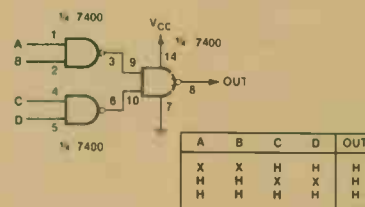
Inverter



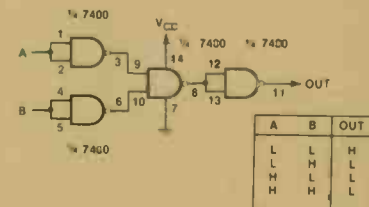
AND Gate



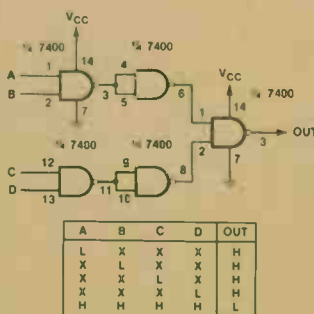
OR Gate



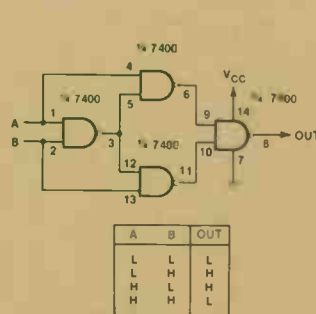
AND-OR Gate



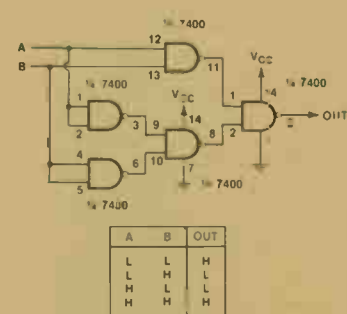
NOR Gate



4-Input NAND Gate



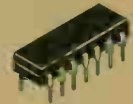
Exclusive-OR Gate



Exclusive-NOR Gate

7404
276-1802

HEX INVERTER



GENERAL DESCRIPTION

This device employs TTL logic to achieve high speed at moderate power dissipation. This hex inverter provides the basic functions used in the implementation of digital integrated circuit systems.

For best noise immunity and switching speed, unused inputs should not be left floating, but should be held between 2.4 V and the absolute maximum input voltage.

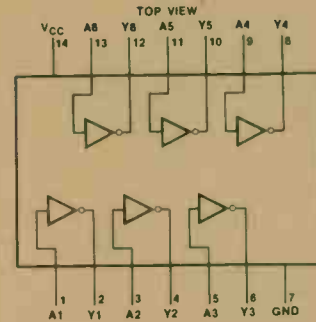
Two possible ways of handling unused inputs are:

- (1) Connect unused inputs to V_{CC} . For all multi-emitter conventional TTL inputs, A 1 to 10K ohm current limiting series resistor is recommended, to protect against V_{CC} transients that exceed 5.5 V.
- (2) Connect the unused input to the output of an unused gate that is forced high.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	5.25 V
Input High Voltage	2.0 V
Input Low Voltage	0.8 V
Input Clamp Diode Voltage ($V_{CC} = 5.0 V, I_{IN} = -12 mA$)	-1.5 V
Input High Current ($V_{CC} = Max., V_{IN} = 2.4 V$)	40 μA
Input Low Current ($V_{CC} = Max., V_{IN} = 0.4 V$)	-1.6 mA
Operating Temperature	0 to +70°C

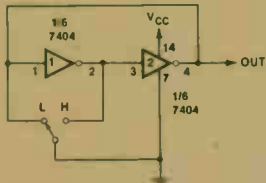
PIN CONNECTION



TRUTH TABLE

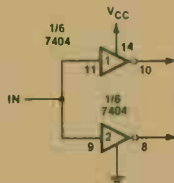
$Y = \bar{A}$

TYPICAL APPLICATIONS



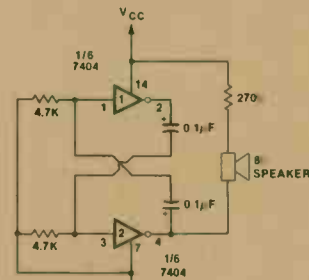
Output follows switch position

Bouncefree Switch



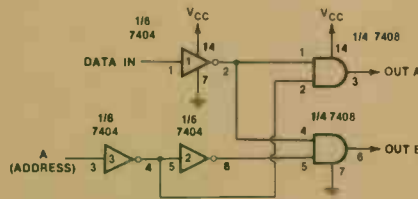
Allows one signal to control two or more inputs

Universal Expander



Output tone is 4kHz.

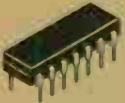
Audio Oscillator



This circuit steers the input bit to the output selected by the address.

DATA	ADDRESS	OUT A	OUT B
L	L	L	H
H	L	L	H
L	H	H	L
H	H	H	H

1-of-2 Demultiplexer



QUAD TWO-INPUT AND GATE

7408
276-1822

GENERAL DESCRIPTION

This device employs TTL logic to achieve high speed at moderate power dissipation. These gates provide the basic functions used in the implementation of digital integrated circuit systems.

For best noise immunity and switching speed, unused inputs should not be left floating, but should be held between 2.4 V and the absolute maximum input voltage.

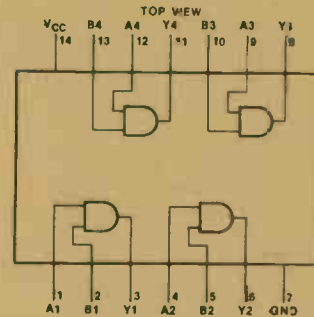
Two possible ways at handling unused inputs are:

- (1) Connect unused inputs to V_{CC} . For all multi-emitter conventional TTL inputs, a 1 to 10K ohm current limiting series resistor is recommended, to protect against V_{CC} transients that exceed 5.5 V.
- (2) Connect the unused input to the output of an unused gate that is forced high.

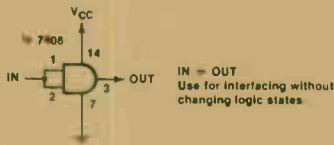
ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	5.25 V
Input High Voltage	2.0 V
Input Low Voltage	0.8 V
Input Clamp Diode Voltage ($V_{CC} = 5.0 V, I_{IN} = -12 mA$)	-1.5 V
Input High Current ($V_{CC} = Max., V_{IN} = 2.4 V$)	40 μA
Input Low Current ($V_{CC} = Max., V_{IN} = 0.4 V$)	-1.6 mA
Operating Temperature	0 to +70°C

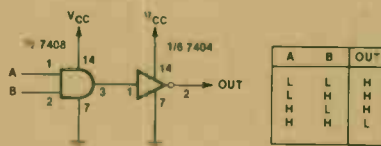
PIN CONNECTION



TYPICAL APPLICATIONS

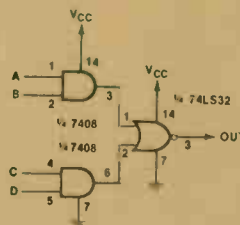


AND Gate Buffer



NAND Gate

A	B	OUT
L	L	H
L	H	H
H	L	H
H	H	L

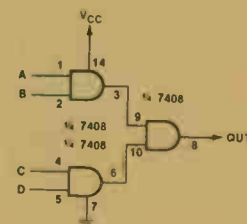


AND-OR-Invert Gate

A	B	C	D	OUT
X	X	H	X	H
L	L	X	X	L
L	L	L	L	L

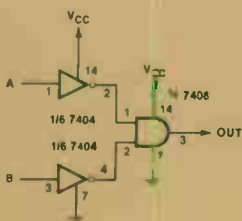
TRUTH TABLE

$Y = AB$



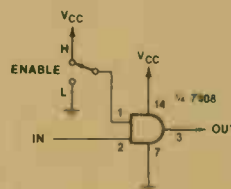
4-Input AND Gate

A	B	C	D	OUT
H	H	H	H	H
X	X	X	X	L



NOR Gate

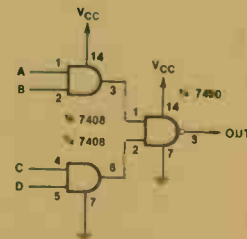
A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	L



Digital Transmission Gate

IN	E	OUT
L	L	L
L	H	L
H	L	L
H	H	H

E = ENABLE

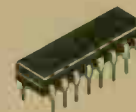


4-Input NAND Gate

A	B	C	D	OUT
H	H	H	H	L
X	X	X	X	H

7447
276-1805

BCD TO SEVEN-SEGMENT DECODER/DRIVER



GENERAL DESCRIPTION

This versatile binary-coded-decimal 7-segment display driver fulfills a wide variety of requirements for most active high (common cathode) and active low (common anode) light emitting diodes (LED) or lamp displays. It fully decodes a 4-bit BCD input into a number from 0 through 9 in the standard 7-segment display format, and BCD numbers above 9 into unique patterns that verify operation. All circuits operate off of a single 5.0V supply. The output will withstand 15 Volts at a maximum leakage current of 250µA.

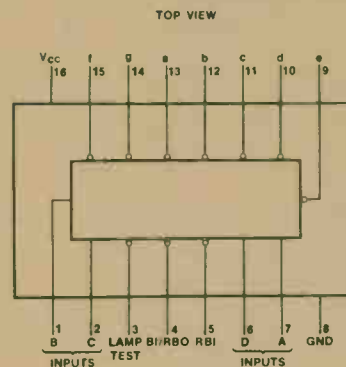
FEATURES

- Lamp-test input
- Leading trailing zero suppression (RBI and RBO)
- Blanking input that may be used to modulate lamp intensity or inhibit output
- TTL and DTL compatible
- Input clamping diodes
- Open collector outputs drive indicators directly

ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	4.75 - 5.25 V
Continuous Voltage at Outputs a-g	Max. 5.5 V
Logic 1 Input Voltage	Min. 2 V
Logic 0 Input Voltage	Max. 0.8 V
Logic 0 Output Voltage	Max. 0.4 V
Logic 1 Output Voltage at a-g	Min. 2.4 V
Logic 1 Output Voltage at BI/RBO	Min. 2.4 V
Power	320 mW

PIN CONNECTION



TRUTH TABLE

DECIMAL OR FUNCTION	INPUTS						BI/RBO [†]	OUTPUTS							NOTE
	LT	RBI	D	C	B	A		a	b	c	d	e	f	g	
0	H	H	L	L	L	L	H	H	H	H	H	H	L		
1	H	X	L	L	L	H	H	L	H	H	L	L	L		
2	H	X	L	L	H	L	H	H	H	L	H	H	L	H	
3	H	X	L	L	H	H	H	H	H	H	H	L	L	H	
4	H	X	L	H	L	L	H	H	L	H	H	L	L	H	H
5	H	X	L	H	L	H	H	H	H	L	H	H	L	H	H
6	H	X	L	H	H	L	H	H	L	L	H	H	H	H	H
7	H	X	L	H	H	H	H	H	H	H	H	L	L	L	L
8	H	X	H	L	L	L	H	H	H	H	H	H	H	H	1
9	H	X	H	L	L	H	H	H	H	H	L	L	H	H	
10	H	X	H	L	H	L	H	H	L	L	L	H	H	L	H
11	H	X	H	L	H	H	H	H	L	L	H	H	L	L	H
12	H	X	H	H	L	L	H	H	L	H	L	L	L	H	H
13	H	X	H	H	L	H	H	H	H	L	L	H	L	H	H
14	H	X	H	H	H	L	H	H	L	L	L	H	H	H	H
15	H	X	H	H	H	H	H	H	L	L	L	L	L	L	L
BI	X	X	X	X	X	X	L	L	L	L	L	L	L	L	2
RBI	H	L	L	L	L	L	L	L	L	L	L	L	L	L	3
LT	L	X	X	X	X	X	H	H	H	H	H	H	H	H	4

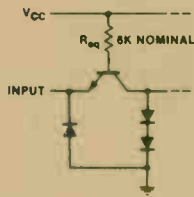
H = High Level, L = Low Level, X = Irrelevant

- Notes: 1. The blanking input (BI) must be open or held at a high logic level when output functions 0 thru 15 are desired. The ripple-blanking input (RB) must be open or high, if blanking of a decimal zero is not desired.
2. When a low logic level is applied directly to the blanking input (BI), all segment outputs are low regardless of the level of any other input.
3. When ripple-blanking input (RBI) and inputs A, B, C, and D are at a low level with the lamp-test input high, all segment outputs go low and the ripple-blanking output (RBO) goes to a low level (response condition).
4. When the blanking input/ripple-blanking output (BI/RBO) is open or held high and a low is applied to the lamp test input, all segment outputs are high.
- † BI/RBO is wire-AND logic serving as blanking input (BI) and/or ripple-blanking output (RBO).

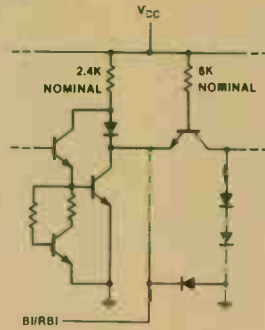


Numerical Designations and Resultant Displays

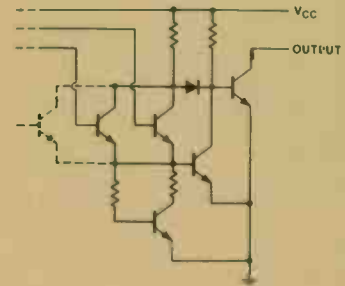
INPUT/OUTPUT EQUIVALENTS



Each Input Except BI/RBO

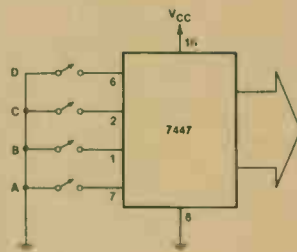


BI/RBO Input

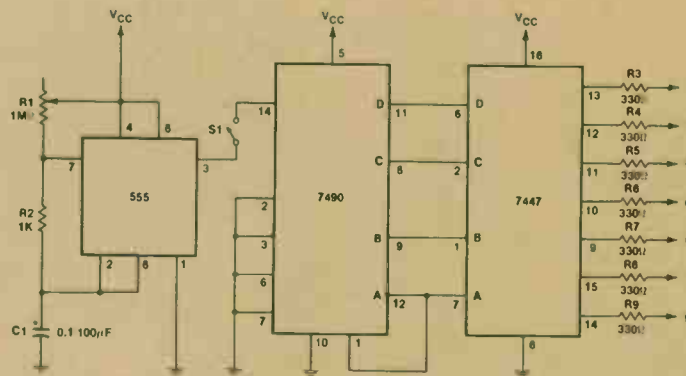


Typical of Outputs a Thru g

TYPICAL APPLICATIONS



Manually Switched Display

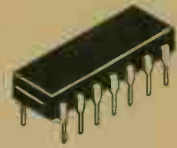


Close S1 to start timing cycle.
Calibrate 555 for 1 pulse (count) per second or 1 count per minute by adjusting R1

0-9 Second/Minute Timer

7490
276-1808

DIVIDE BY 2 OR 5, BCD COUNTER



GENERAL DESCRIPTION

This monolithic BCD counter contains four master-slave flip-flops and additional gating to provide a divide-by-two counter and a three-stage binary counter for which the count cycle length is divide-by-five.

This counter has a gated zero reset and gated set-to-nine inputs for use in BCD nine's complement applications.

To use maximum count length, the B input is connected to the Q_A output. The input count pulses are applied to input A and the outputs are as described in the appropriate truth table. A symmetrical divide-by-ten count can be obtained from the 90 counter by connecting the Q_D output to the A input and applying the input count to the B input which gives a divide-by-ten square wave at output Q_A.

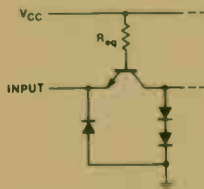
FEATURES

- Low power consumption
- High count rates . . . typically 50MHz
- Choice of counting modes
- Fully TTL and CMOS compatible

ABSOLUTE MAXIMUM RATINGS

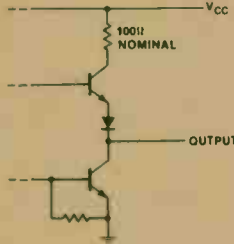
Typical Power Dissipation 145 mW
 Count Frequency 42 MHz
 High Level Input Voltage (Min) 2 V
 Low Level Input Voltage (Max) 0.8 V
 High Level Input Current 800 μA
 Low Level Output Current (Max) 16 mA
 V_{CC} to Ground - 0.5 to + 7.0 V
 Voltage Applied to Outputs (Output High) - 0.5 to + 5.5 V

INPUT/OUTPUT EQUIVALENTS



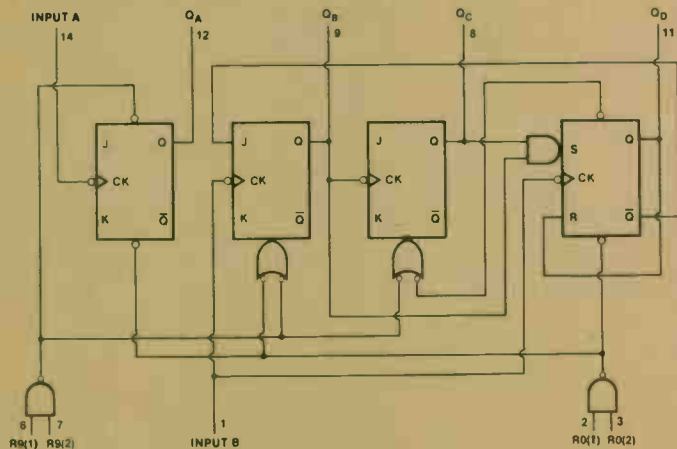
INPUT	R _{eq} NOMINAL
A	2.5K
B	1.25K
ALL RESETS	8K

Each Input

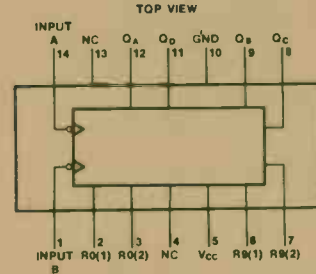


Typical of all Outputs

BLOCK DIAGRAM



PIN CONNECTION



TRUTH TABLES

RESET/COUNT

RESET INPUTS				OUTPUTS			
RO(1)	RO(2)	R9(1)	R9(2)	Q _D	Q _C	Q _B	Q _A
H	H	L	X	L	L	L	L
H	H	X	L	L	L	L	L
X	X	H	H	H	L	L	H
X	L	X	L	COUNT			
L	X	L	X	COUNT			
L	X	X	L	COUNT			
X	L	L	X	COUNT			

BCD COUNT SEQUENCE (See Note A)

COUNT	OUTPUTS			
	Q _D	Q _C	Q _B	Q _A
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	L	H	L	H
6	L	H	H	L
7	L	H	H	H
8	H	L	L	L
9	H	L	L	H

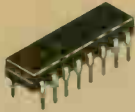
BI-QUINARY (5-2) (See Note B)

COUNT	OUTPUTS			
	Q _A	Q _D	Q _C	Q _B
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	H	L	L	L
6	H	L	L	H
7	H	L	H	L
8	H	L	H	H
9	H	H	L	L

L = Low Level
 H = High Level

Notes:

- (A) Output Q_A is connected to input B for BCD count.
- (B) Output Q_D is connected to input A for bi-quinary count.



TONE ENCODER

TCM5089

276-1301

GENERAL DESCRIPTION

The TCM5089 is specifically designed for the dual-tone telephone dialing system.

In addition to fixed supply voltage operation, the tone encoder provides negative-true keyboard input, tone inhibit input, stable output tone level, any key depressed feature as well as a single tone inhibit pin.

An inexpensive TV crystal is used to generate eight different audio sinusoidal frequencies.

The tones suitable for dual-tone multi-frequency (DTMF) telephone dialing are digitally synthesized on the chip. The conventional R-2R ladder network is used to provide on-chip digital to analog conversion. The current-to-voltage transformation for D-to-A converter is accomplished by the same operational amplifier which sums up the "low-group" and "high-group" signals.

The waveforms generated in the manner described above have very low total harmonic distortion. Moreover, the frequency stability of this tone encoder complies with standard DTMF specifications without need for any frequency adjustments.

Two voice frequency signals are linearly added to create the dual-tone signal. One frequency is selected from a "low-group" and the other from a "high-group" of frequencies. The "low-group" consists of four frequencies 697, 770, 852, and 941 Hertz. The "high-group" consists of four frequencies 1209, 1336, 1477, and 1633 Hertz.

The number entry is accomplished by a keyboard arranged in a row, column format. In order to select one appropriate row and one appropriate column, a push button corresponding to a digit is pushed. One of the "high-group" frequencies is selected by the active column input and one of the "low-group" frequencies is selected by the active row input. The highest "high-group" frequency of 1633 hertz is not used in standard dual-tone implementation.

The total harmonic and intermodulation distortions of the dual-tone should be less than 10% at the telephone terminals. The frequency tolerance is ±1.0%. TCM5089 tone encoder provides accuracy of less than 0.75%. The "high-group" to "low-group" signal amplitude ratio should be 2.0 ± 1 dB. The above mentioned specifications hold over the safe operating temperature range for either short loop or long loop telephone application.

The TCM5089 is compatible with keyboard as well as electronic inputs. A keyboard diagram is shown in figures 1, and 2. The electronic inputs are shown in figure 3. The standard CMOS operated off the same supply as TCM5089 or open collector TTL can be used for electronic control. The keyboard inputs are standard CMOS with pull-up resistors to the supply voltage V_{DD}. CMOS circuits are capable of realizing resistance up to 1KΩ as a valid key closure; therefore, the precious metals used in keyboard switch contacts can be saved.

In order to generate a particular column tone, the column is connected to V_{SS} and the single tone inhibit is tied to V_{DD}. No tones will result if more than one column is connected to V_{SS}. When one or more rows are connected to V_{SS}, no tones are generated. In order to generate a particular row tone, the row is connected to V_{SS} along with any two column pins. The generation of dual-tones requires connection of a single row and a single column to V_{SS}.

Pin 15 is used to inhibit the generation of single tones. This pin is capable of pulling down to V_{SS} supply voltage. The dual or the single tones are generated as described under keyboard Interface when this pin is connected to V_{DD} supply voltage. When this pin is pulled down to V_{SS} or left floating, all chip functions remain unchanged except for the single tone operation which results in no tone at this voltage level.

The following formula is used to calculate the total harmonic distortion of a single row or a single column.

$$THD = \frac{(\sqrt{V_{2f}^2 + V_{3f}^2 + V_{4f}^2 + V_{5f}^2 + \dots + V_{nf}^2})}{V_F} \times 100\%$$

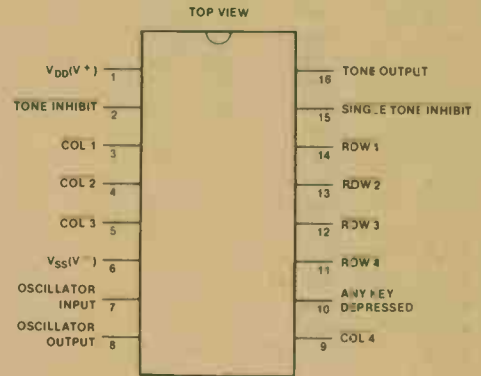
Where V_{2f} is the second harmonic of the fundamental frequency waveform and so on.

The dual-tone total harmonic distortion is given by the following formula:

$$THD = \frac{(\sqrt{V_{2R}^2 + V_{3R}^2 + \dots + V_{nR}^2 + V_{2C}^2 + \dots + V_{nC}^2 + V_{IMD}^2})}{\sqrt{V_{FR}^2 + V_{FC}^2}} \times 100\%$$

Where V_{FR} and V_{FC} are the row and column fundamental frequency waveforms, V_{2R} and V_{2C} etc. are the corresponding harmonics.

PIN CONNECTION



2 OF 6 DTMF KEYBOARD (DPST)

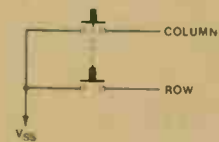


Figure 1—Keyboard Diagram

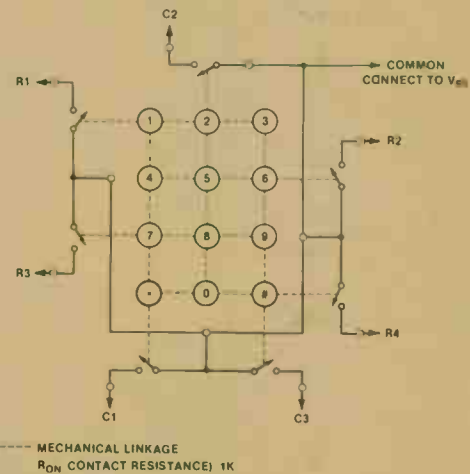


Figure 2—Pushbutton Telephone Keyboard



Figure 3—Electronic Inputs

TCM5089 276-1301

GENERAL DESCRIPTION (Cont'd)

V^2_{IMD} denotes the total intermodulation distortion.

$$V^2_{IMD} = (V_R + C)^2 + (V_R - C)^2 + \dots + (V_{nR} + mC)^2 + (V_{nR} - mC)^2$$

A relatively simple method of distortion measurement uses a spectrum analyzer to relate the harmonics to the fundamental frequency waveform.

The tone encoder spectrum indicates the harmonics and intermodulation distortion at least 30dB down relative to the column tone. Another method for distortion measurement of the dual-tone waveform is to compare the total power in the fundamental frequencies with the total power in the various harmonics plus intermodulation on a signal analyzer. The TCM5089 provides an output distortion of -20dB maximum.

Moreover, when the device is operated between 3 volts and 3.5 volts, some clipping occurs at the output waveform causing the distortion in this voltage range to exceed -20dB maximum.

Pin 10 is used for electronic control of the transmitter and/or the receiver switching as well as other functions. This pin acts like an open-circuit. However, when a keyboard button is pushed, the pin switches to V_{SS} .

The status of the tone inhibit and the single tone inhibit does not affect the output at pin 10.

The level of the TCM5089's output tone is proportional to the fixed DC supply voltage. In order to increase the temperature stability of the device, operation is usually performed with a regulated supply. The reason being that the temperature stability of the supply voltage can be controlled. The tone output i.e., pin 16 is tied internally to the emitter of an NPN transistor. The collector of this transistor is connected to the V_{DD} supply voltage. The base of this transistor is connected to the output of the on-chip Op Amp used to add the column and row tones and facilitate output level regulations.

The purpose of pin 2 is to prevent tone generation when the keyboard is not used for DTMF application. This pin has a pull-up to V_{DD} voltage supply. It inhibits tone generation when connected to V_{SS} . However, other chip functions remain unchanged.

FEATURES

- Fixed-supply voltage operation
- Minimal standby power requirement
- Use of inexpensive television colorburst crystal (3.579545MHz to provide highly accurate and stable tones)
- Minimum external parts required
- Total harmonic distortion complies with industry standards
- Dual-tone and single-tone capability
- Single tone inhibit selects DTMF only
- Tone inhibit capability to allow keyboard to be used for non-DTMF functions
- Any key depressed control capability
- Device power delivered directly from the telephone lines or small batteries (e.g., 9 volts) due to CMOS low power circuitry
- Electronic input capability

ABSOLUTE MAXIMUM RATINGS

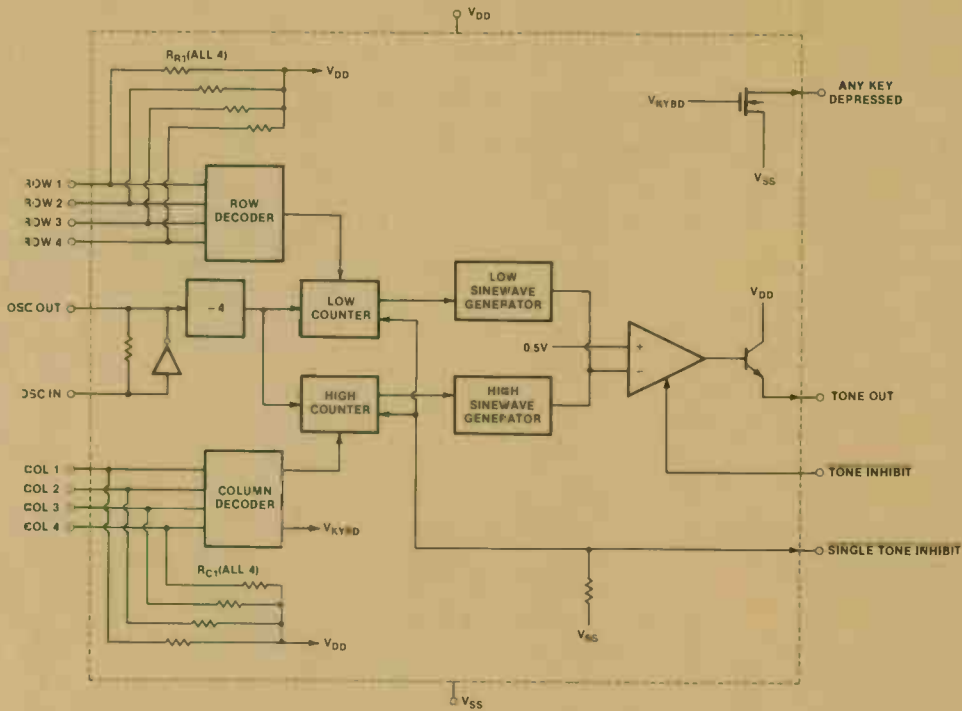
DC Supply Voltage, V_{DD}	+13.5 V
Pin Voltage Relative to V_{DD} (Except Pin 10)	+0.30 V
Pin Voltage Relative to V_{SS} (Except Pin 10)	-0.30 V
Maximum Package Power Capability	1150 mW
Operating Ambient Temperature	-30 to +70°C
Storage Ambient Temperature	-55 to +150°C

TABLE

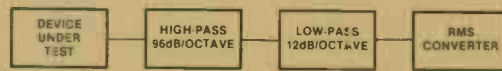
Comparison of standard versus actual tones generated by TCM5089 using $F = 3.579545 \text{ MHz} \pm .02\%$ crystal oscillator.

FREQUENCY	STANDARD DTMF	OUTPUT TONE	%ERROR
$f_1(R_1)$	697	701.3	+0.62
$f_2(R_2)$	770	771.4	+0.19
$f_3(R_3)$	852	857.2	+0.61
$f_4(R_4)$	941	935.1	-0.63
$f_5(C_1)$	1209	1215.9	+0.57
$f_6(C_2)$	1336	1331.7	-0.32
$f_7(C_3)$	1477	1471.9	-0.35
$f_8(C_4)$	1633	1645	+0.73

BLOCK DIAGRAM



TEST CIRCUITS

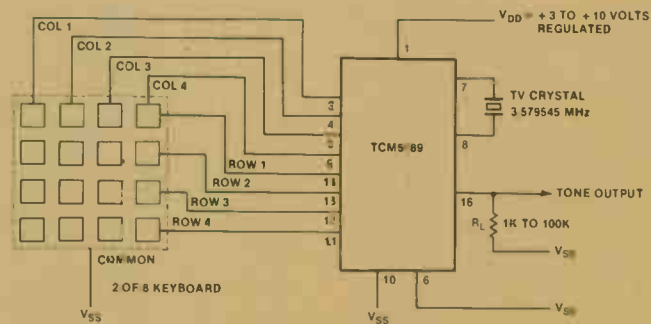


Distortion Measurement



Frequency Test

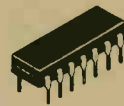
TYPICAL APPLICATION



Typical Hook-up Configuration

4001
276-2401

QUAD TWO-INPUT NOR GATE



GENERAL DESCRIPTION

The 4001 quad 2-Input NOR gate is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. These complementary MOS logic gates find primary use where low power dissipation and/or high noise immunity is desired.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g. either V_{SS} or V_{DD}).

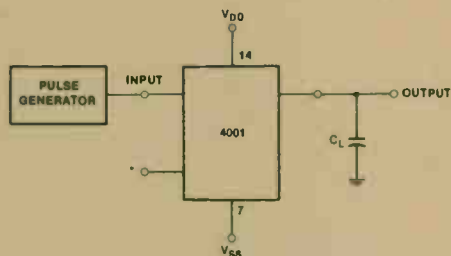
FEATURES

- Quiescent current = 0.5 nA typ/pkg @ 5 Vdc
- Noise immunity = 45% of V_{DD} typical
- Diode protection on all inputs
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Single supply operation—positive or negative
- High fanout > 50
- Input impedance = 10^{12} ohms typical
- Logic swing independent of fanout

ABSOLUTE MAXIMUM RATINGS (Voltages referenced to V_{SS})

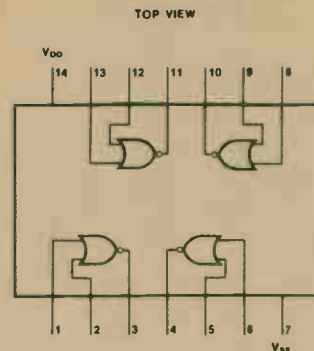
DC Supply Voltage	-0.5 to +16 Vdc
Input Voltage, All Inputs	-0.5 to V_{DD} + 0.5 Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-65 to +150°C

SWITCH TIME TEST CIRCUIT

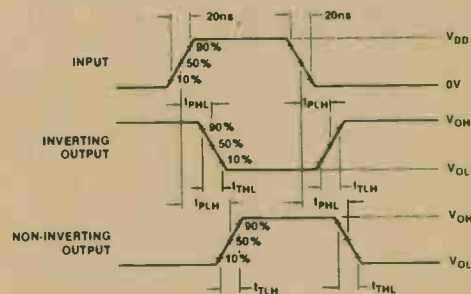


*All unused inputs of OR, NOR gates must be connected to V_{SS} .

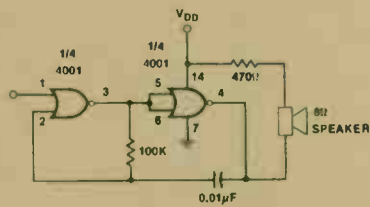
PIN CONNECTION



SYNC TIMING WAVEFORMS

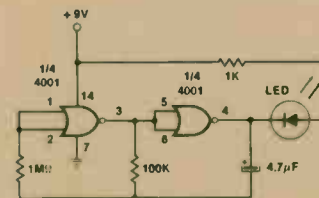


TYPICAL APPLICATIONS



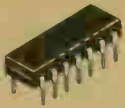
Tone frequency is about 1kHz

Gated Tone Source



LED flashes 1-2 times/second

LED Flasher



QUAD TWO-INPUT NAND GATE

4011
276-2411

GENERAL DESCRIPTION

The 4011 is constructed with P and N channel enhancement mode devices in a single monolithic structure (Complementary MOS). Their primary use is where low power dissipation and/or high noise immunity is desired.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

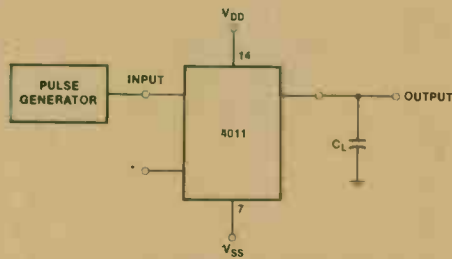
FEATURES

- Quiescent current = 0.5 nA typ/pkg @ 5 Vdc
- Noise immunity = 45% of V_{DD} typical
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Double diode protection on all inputs

ABSOLUTE MAXIMUM RATINGS (Voltages referenced to V_{SS})

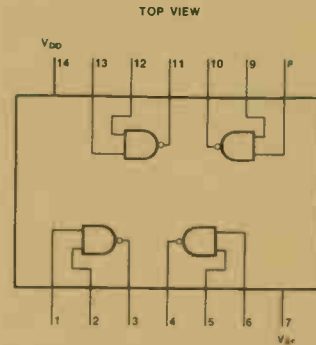
DC Supply	-0.5 to +16 Vdc
Input voltage. All Inputs	-0.5 to $V_{DD} + 0.5$ Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	-40 to +85 C
Storage Temperature Range	-55 to +150 C

SWITCH TIME TEST CIRCUIT



*All unused inputs of AND, NAND gates must be connected to V_{DD} .

PIN CONNECTION



SYNC TIMING WAVEFORMS

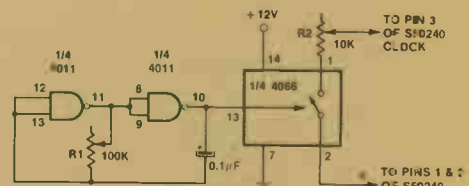


TYPICAL APPLICATIONS



Display flashes once per second when E is high

Display Flasher



This produces bagpipe and other unusual sounds. Adjust R1 to vary interruption rate.

Special Effects

4013
276-2413

DUAL TYPE D FLIP-FLOP



GENERAL DESCRIPTION

The 4013 dual type D flip-flop is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. Each flip-flop has independent Data (D), Direct Set (S), Direct Reset (R), and Clock (C) inputs and complementary outputs (Q and \bar{Q}). These devices may be used as shift register elements or as type T flip-flops for counter and toggle applications.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} < (V_{in} \text{ or } V_{out}) < V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

FEATURES

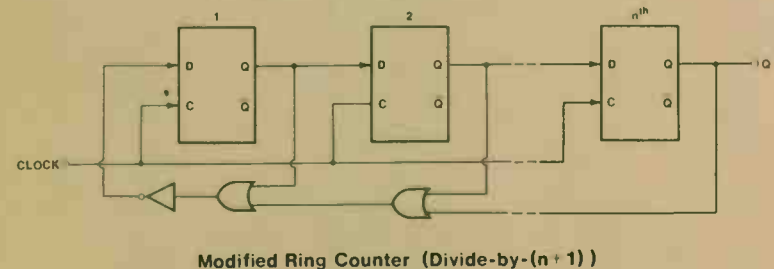
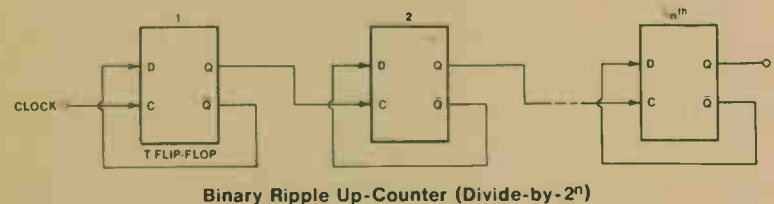
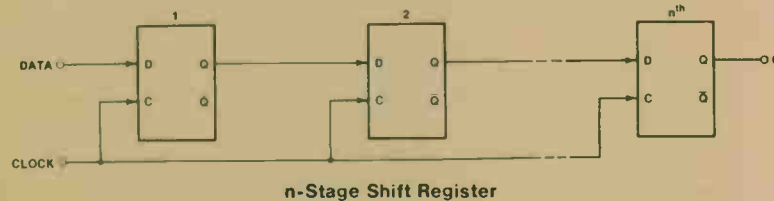
- Static operation
- Quiescent current = 2.0 nA/package typical @ 5 Vdc
- Noise immunity = 45% of V_{DD} typical
- Diode protection on all inputs
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Single supply operation
- Toggle rate = 4 MHz typical @ 5 Vdc
- Logic edge-clocked flip-flop design—logic state is retained indefinitely with clock level either high or low; information is transferred to the output only on the positive-going edge of the clock pulse.
- Capable of driving two low-power TTL loads, one low-power schottky TTL load or two HTL loads over the rated temperature range.

ABSOLUTE MAXIMUM RATINGS

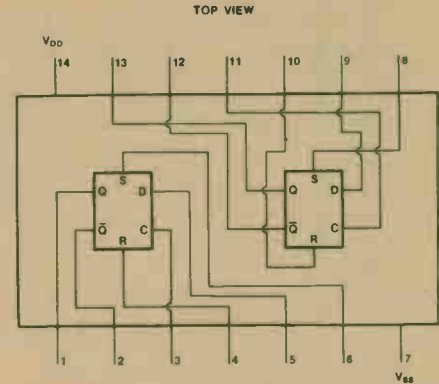
(Voltages referenced to V_{SS})

DC Supply Voltage	-0.5 to +16 Vdc
Input Voltage, All Inputs	-0.5 to $V_{DD} + 0.5$ Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-65 to +150°C

TYPICAL APPLICATIONS



PIN CONNECTION

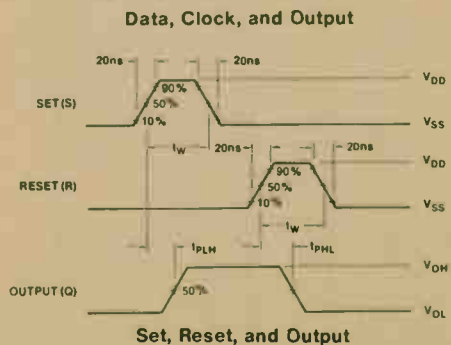
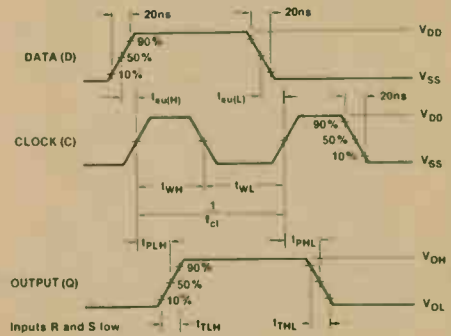


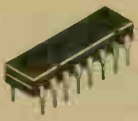
TRUTH TABLE

Clock [†]	INPUTS			OUTPUTS	
	Data	Reset	Set	Q	\bar{Q}
—	L	L	L	L	H
—	H	L	L	H	L
—	X	L	L	No Change	
X	X	H	L	L	H
X	X	L	H	H	L
X	X	H	H	H	H

X = Don't Care H = High Level
L = Low Level † = Level Change

SYNC TIMING WAVEFORMS





DECADE COUNTER/DIVIDER

4017
276-2417

GENERAL DESCRIPTION

The 4017 is a five-stage Johnson decade counter with built-in code converter. High-speed operation and spike-free outputs are obtained by use of a Johnson decade counter design. The ten decoded outputs are normally low, and go high only at their appropriate decimal time period. The output changes occur on the positive-going edge of the clock pulse. This part can be used in frequency division applications as well as decade counter or decimal decode display applications.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

FEATURES

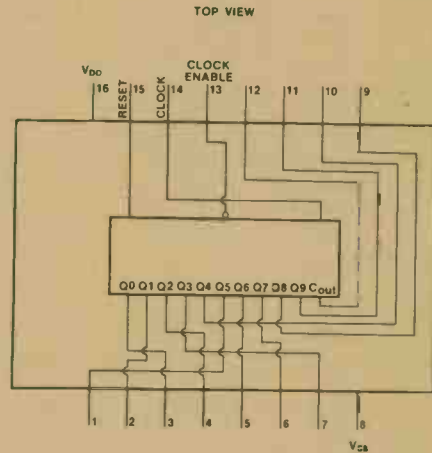
- Fully static operation
- DC clock input circuit allows slow rise times
- Carry out output for cascading
- 12 MHz (typical) operation @ $V_{DD} = 10 \text{ Vdc}$
- Quiescent current = 5.0 nA/package typical @ 5 Vdc
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Capable of driving two low-power TTL loads, one low-power schottky TTL load or two HTL loads over the rated temperature range

ABSOLUTE MAXIMUM RATINGS

(Voltages referenced to V_{SS})

DC Supply Voltage	-0.5 to +16 Vdc
Input Voltage, All Inputs	-0.5 to $V_{DD} + 0.5 \text{ Vdc}$
DC Current Drain per Pin	10 mA dc
Operating Temperature Range	-40 to +85 C
Storage Temperature Range	-65 to +150 C

PIN CONNECTION

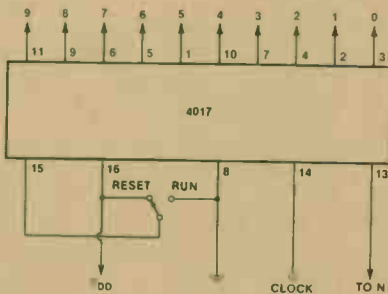


TRUTH TABLE (Positive Logic)

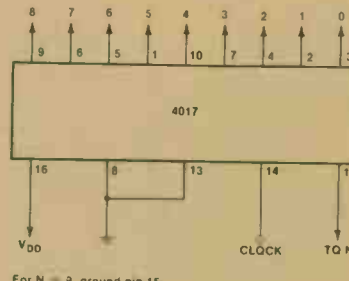
Clock	Clock Enable	Reset	Decode Output = n
L	X	L	n
X	H	L	n
X	X	H	QL
	L	L	n + 1
	X	L	n
X		L	n
1		L	n + 1

X = Don't Care If n < 5 Carry = "H",
Otherwise = "L",
L = Low Level H = High Level

TYPICAL APPLICATIONS



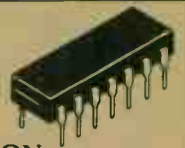
Count to N and Halt



Count to N and Recycle

4023
276-2423

TRIPLE 3-INPUT "NAND" GATE



GENERAL DESCRIPTION

The 4023 is constructed with P- and N-channel enhancement mode devices in a single monolithic structure. Its primary use is where low power dissipation and/or high noise immunity is desired.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{IN} and V_{OUT} be constrained to the range $V_{SS} \leq (V_{IN} \text{ or } V_{OUT}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

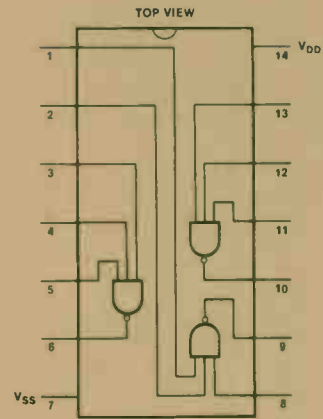
FEATURES

- Quiescent current — 0.5 nA typ/pkg @ 5 Vdc
- Noise immunity — 45% of V_{DD} typical
- Supply voltage range — 3 to 18 Vdc
- Double diode protection on all inputs

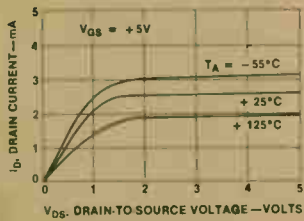
ABSOLUTE MAXIMUM RATINGS

DC Supply Voltage	.....	- 0.5 to + 18 V
Input Voltage, All Inputs	.....	- 0.5 to + 0.5 V
DC Current Drain per Pin	.....	10 mA
Operating Temperature Range	.....	- 40 to + 85°C
Storage Temperature Range	.....	- 65 to + 150°C

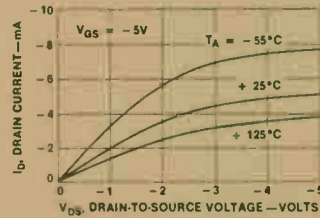
PIN CONNECTION



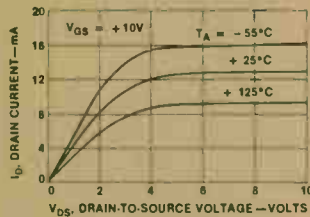
TYPICAL CHARACTERISTICS



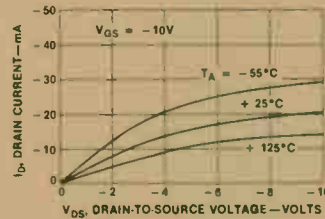
Drain Current vs Drain-to-Source Voltage



Drain Current vs Drain-to-Source Voltage

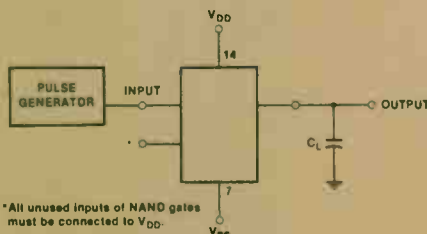


Drain Current vs Drain-to-Source Voltage

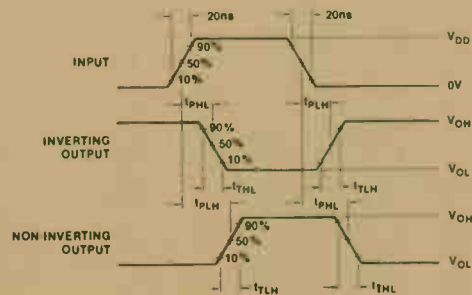


Drain Current vs Drain-to-Source Voltage

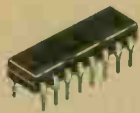
SWITCH TIME TEST CIRCUIT



Test Circuit



Switching Time Waveforms



INVERTING HEX BUFFER

4049
276-2449

GENERAL DESCRIPTION

The 4049 hex inverter/buffer is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. These complementary MOS devices find primary use where low power dissipation and/or high noise immunity is desired. These devices provide logic-level conversion using only one supply voltage, V_{CC} . The input-signal high level (V_{IH}) can exceed the V_{CC} supply voltage for logic-level conversions. Two TTL/DTL loads can be driven when the devices are used as CMOS-to-TTL/DTL converters ($V_{CC} = 5.0\text{ V}$, $V_{OL} \leq 0.4\text{ V}$, $I_{OL} \geq 3.2\text{ mA}$) Note that pin 16 is not connected internally on this device; consequently connections to this terminal will not affect circuit operation.

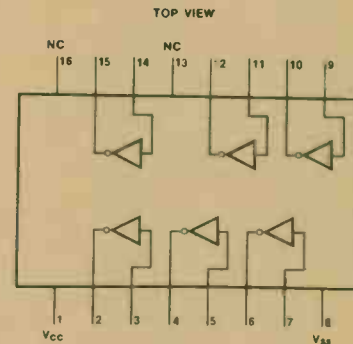
FEATURES

- High source and sink currents
- High-to-low level converter
- Quiescent current = 2.0 nA/package typical @ 5 Vdc
- Supply voltage range = 3.0 Vdc to 16 Vdc

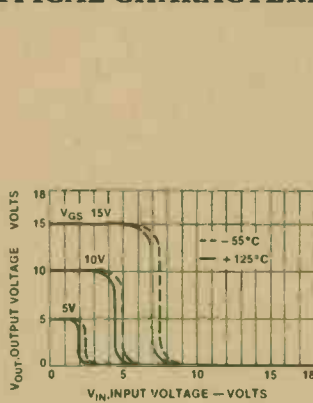
ABSOLUTE MAXIMUM RATINGS (Voltages referenced to V_{SS} , Pin 8)

DC Supply Voltage	-0.5 to +16 Vdc
Input Voltage, All Inputs	-0.5 to $V_{DD} + 0.5\text{ Vdc}$
DC Current Drain per Input Pin	10 mAdc
DC Current Drain per Output Pin	45 mAdc
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-65 to +150°C

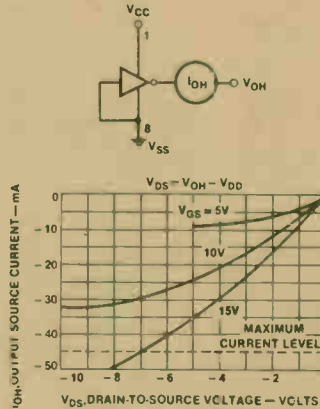
PIN CONNECTIONS



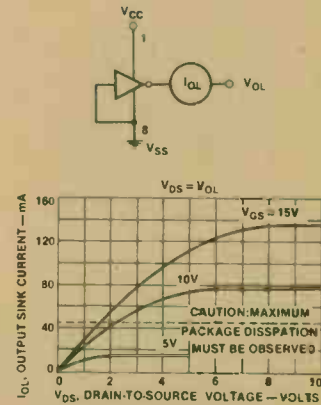
TYPICAL CHARACTERISTICS



Output Voltage vs Input Voltage

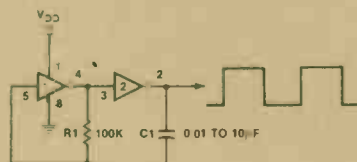


Output Source Current vs Drain-To-Source Voltage



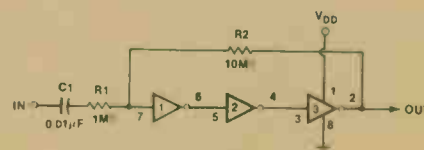
Output Sink Current vs Drain-To-Source Voltage

TYPICAL APPLICATIONS



1,2 = 1/2 4049
Pulse Rate = 1/1.4R1C1

Clock Pulse Generator

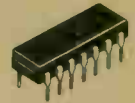


1,2,3 = 1/2 4049
Note that the inverters are used in a LINEAR mode
Gain = R2/R1

Linear IOX Amplifier

4066
276-2466

QUAD BILATERAL SWITCH



GENERAL DESCRIPTION

The 4066 consists of four independent switches capable of controlling either digital or analog signals. This Quad Bilateral Switch is useful in signal gating, chopper, modulator, demodulator, and CMOS logic implementation.

This device contains circuitry to protect the inputs against damage due to high static voltages or electrical fields; however, it is advised that normal precautions be taken to avoid applications of any voltage higher than maximum rated voltages to this high impedance circuit.

For proper operation it is recommended that V_{IN} and V_{OUT} be constrained to the range $V_{SS} \leq (V_{IN} \text{ or } V_{OUT}) \leq V_{DD}$.

Unused inputs must always be tied to the appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

FEATURES

- Wide supply voltage range—3V to 15V
- High noise immunity— $0.45 V_{DD}$ typ
- Wide range of digital and analog switching— $\pm 7.5 V_{PEAK}$
- "ON" resistance for 15V operation— 80Ω typ
- Matched "ON" resistance over 15V signal input— $\Delta R_{ON} = 5\Omega$ typ
- "ON" resistance flat over peak-to-peak signal range
- High "ON"/"OFF" output voltage ratio—65 dB typ
- High degree of linearity— $<0.4\%$ distortion typ
- Extremely low "OFF" switch leakage—0.1 nA typ
- Extremely high control input impedance— $10^{12}\Omega$ typ
- Low crosstalk between switches— -50 dB typ
- Frequency response, switch "ON"—40 MHz typ

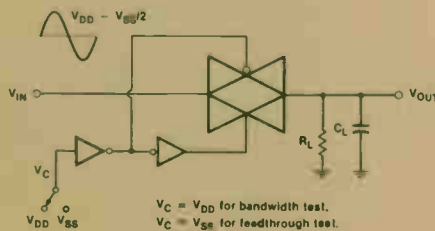
APPLICATIONS

- Analog signal switching/multiplexing
 - Signal gating
 - Squelch control
 - Chopper
 - Modulator/Demodulator
 - Commutating switch
- Digital signal switching/multiplexing
- CMOS logic implementation
- Analog-to-digital/digital-to-analog conversion
- Digital control of frequency, impedance, phase, and analog-signal gain

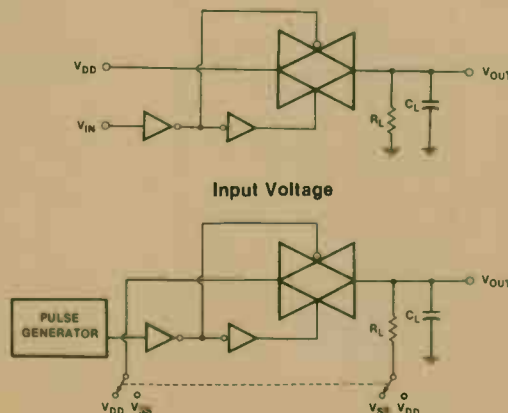
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	-0.5V to +18V
Input Voltage	-0.5 to $V_{DD} + 0.5V$
Package Dissipation	500 mW
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

TYPICAL APPLICATIONS

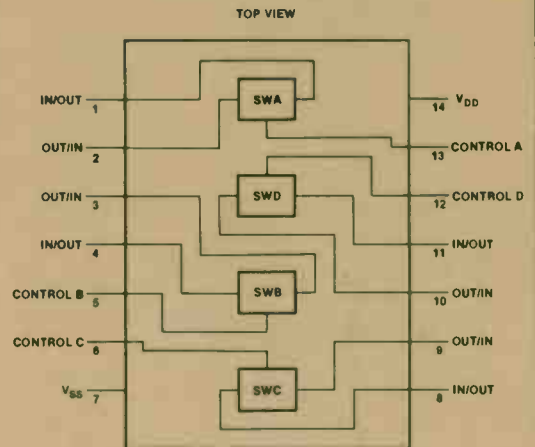


Bandwidth and Feedthrough Attenuation



Propagation Delay Time, Control to Output

PIN CONNECTION

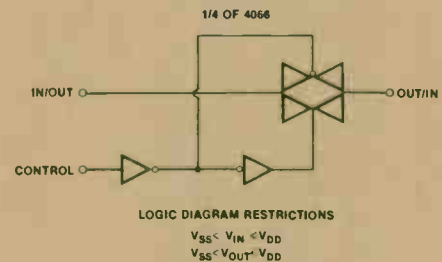


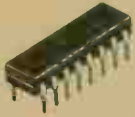
TRUTH TABLES

CONTROL	SWITCH
0	OFF
1	ON

$V_{CONTROL}$	V_{IN} TO V_{OUT} RESISTANCE
V_{SS}	$> 10^9$ ohms typical
V_{DD}	3×10^2 ohms typical

LOGIC DIAGRAM





16K DYNAMIC RAM

4116
276-2505

GENERAL DESCRIPTION

The 4116 is a 16,384 × 1 bit dynamic RAM. It features a multiplexed address input with separate row and column strobes. This added flexibility allows the 4116 to be used in page mode operation.

The 4116 must be refreshed every 2 ms. This can be accomplished by performing any cycle which brings the Row Address Strobe active including an RAS-only cycle at each of the 128 row addresses.

N-channel double-poly silicon gate technology is used in the manufacture of the 4116. This process combines high density and performance with reliability. Greater system densities are achievable by the use of a 16-pin dual-in-line package for the 4116.

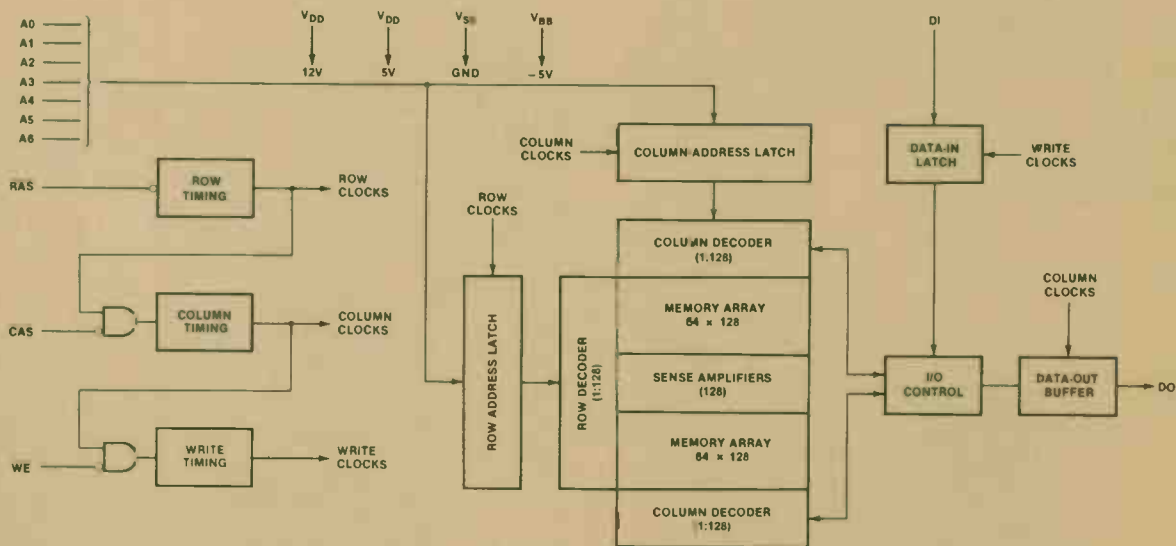
FEATURES

- Access times: 150 ns, 200 ns, 300 ns
- Low power: 462mW max
- TTL compatible: all inputs and output
- Gated CAS—noncritical timing
- Read, write, read-modify-write and RAS-only refresh cycles
- Page mode operation

ABSOLUTE MAXIMUM RATINGS

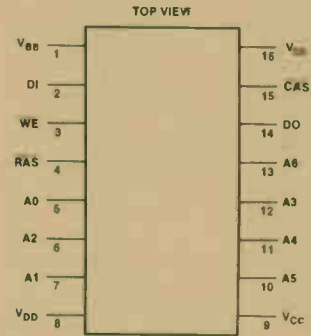
Power Dissipation	1W
Supply Voltage V_{DD}	13.2V
Supply Voltage V_{CC}	5.5V
Voltage on Any Pin Relative to V_{BB}	-0.3 to +20V
($V_{SS} - V_{BB} > 4.5V$)	
Operating Temperature Range	0 to +70°C
Storage Temperature	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

INTERNAL CIRCUIT



Note: All voltages referenced to V_{SS} . When applying voltages to the device, V_{DD} , V_{CC} , or V_{SS} should never be 0.3V more negative than V_{BB} .

PIN CONNECTION



TL317
276-1762

POSITIVE VOLTAGE REGULATOR

GENERAL DESCRIPTION

The TL317 is an adjustable 3-terminal positive voltage regulator capable of supplying 100 milliamperes over an output-voltage range of 1.2 volts to 32 volts. It is exceptionally easy to use and requires only two external resistors to set the output voltage. Both input and output regulation are better than standard fixed regulators.

In addition to higher performance than fixed regulators, this regulator offers full overload protection available only in integrated circuits. Included on the chip are current limit and thermal overload protection. All overload protection circuitry remains fully functional even if the adjustment terminal is disconnected. Normally, no capacitors are needed unless the device is situated far from the input filter capacitors in which case an input bypass is needed. An optional output capacitor can be added to improve transient response. The adjustment terminal can be bypassed to achieve very high ripple rejection, which is difficult to achieve with standard 3-terminal regulators.

Besides replacing fixed regulators, the regulator is useful in a wide variety of other applications. Since the regulator is floating and sees only the input-to-output differential voltage, supplies of several hundred volts can be regulated as long as the maximum input-to-output differential is not exceeded. Its primary application is that of a programmable output regulator, but by connecting a fixed resistor between the adjustment terminal and the output terminal, this device can be used as a precision current regulator. Supplies with electronic shutdown can be achieved by clamping the adjustment terminal to ground, which programs the output to 1.2 volts where most loads draw little current.

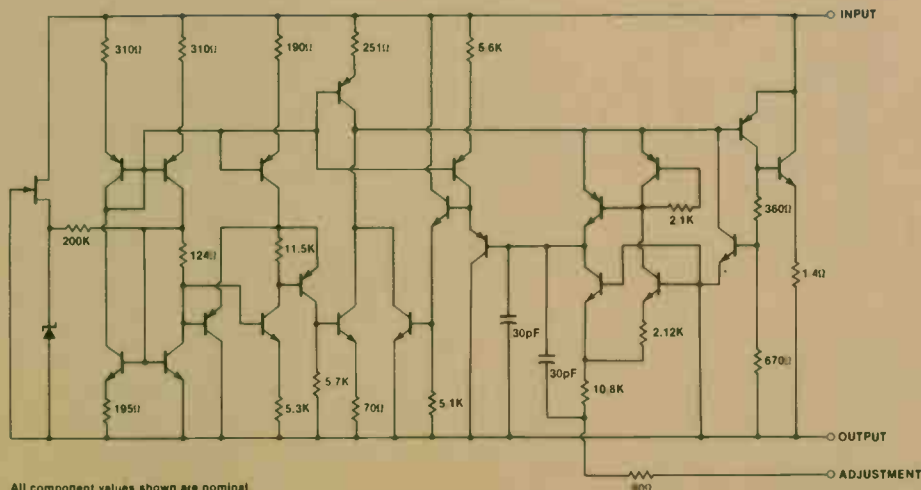
FEATURES

- Output voltage range adjustable from 1.2 V to 32 V
- Guaranteed I_O capability of 100 mA
- Input regulation typically 0.01% per input-volt change
- Output regulation typically 0.5%
- Ripple rejection typically 80 dB

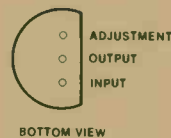
ABSOLUTE MAXIMUM RATINGS

Input-to-Output Differential Voltage, $V_I - V_O$	35 V
Continuous Total Dissipation at (or below) 25°C	
Free-Air Temperature	775 mW
Continuous Total Dissipation at (or below) 25°C Case Temperature ..	1600 mW
Operating Free-Air, Case, or Virtual Junction Temperature Range ..	0 to 150°C
Storage Temperature Range	-65 to 150°C
Lead Temperature (1/16 inch from Case for 10 Sec.)	260°C

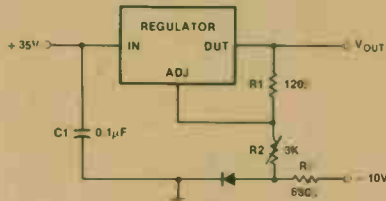
SCHEMATIC



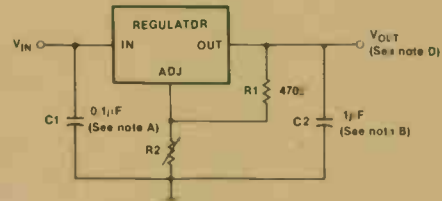
PIN CONNECTION



TYPICAL APPLICATIONS

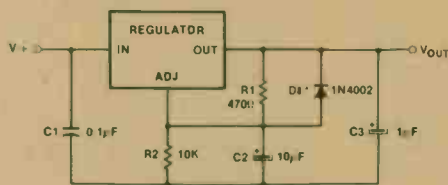


0 to 30 V
Regulator Circuit



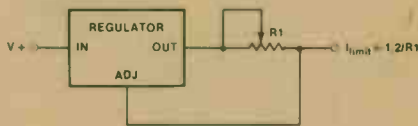
Adjustable
Voltage Regulator

Notes: A Use of an input bypass capacitor is recommended if regulator is far from filter capacitors.
B Use of an output capacitor improves transient response but is optional.
C V_{REF} equals the difference between the output and adjustment terminal voltages.
D Output voltage is calculated from the equation $V_{OUT} = V_{REF}(1 + R2/R1)$

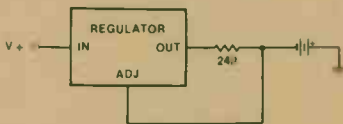


*D1 discharges C2 if output is shunted to ground

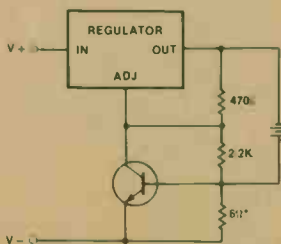
Adjustable Regulator Circuit with
Improved Ripple Rejection



Precision Current
Limiter Circuit

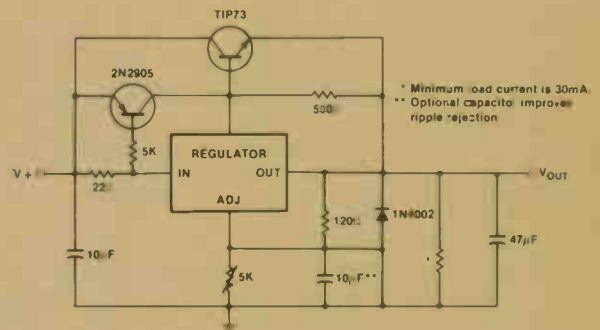


50 mA Constant-Current
Battery Charger Circuit

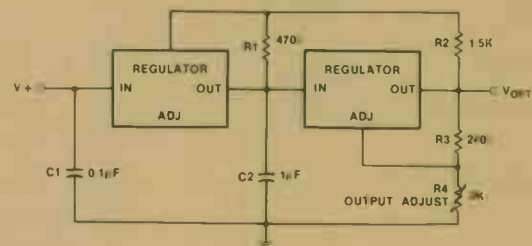


*This resistor set peak current (100mA for 5V)

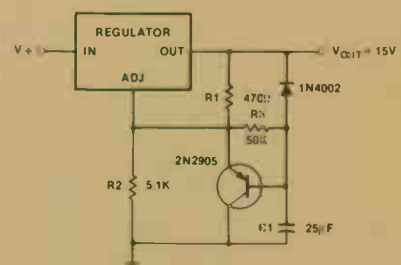
Current-Limited
6V Charger



High-Current
Adjustable Regulator



Tracking
Preregulator Circuit



Slow-Turn-On 15 V
Regulator Circuit

317K
276-1777

317T
276-1778

3-TERMINAL ADJUSTABLE POSITIVE REGULATOR

GENERAL DESCRIPTION

The 317K and 317T are adjustable 3-terminal positive voltage regulators capable of supplying in excess of 1.5 A over a 1.2 V to 37 V output range. These devices are exceptionally easy to use and requires only two external resistors to set the output voltage.

In addition to higher performance than fixed regulators, the 317K and 317T offers full overload protection available only in IC's. Included on the chip are current limit, thermal overload protection and safe area protection. All overload protection circuitry remains fully functional even if the adjustment terminal is disconnected.

Normally, no capacitors are needed unless the device is situated far from the input filter capacitors in which case an input bypass is needed. An optional output capacitor can be added to improve transient response. The adjustment terminal can be bypassed to achieve very high ripple rejections ratios which are difficult to achieve with standard 3-terminal regulators.

Besides replacing fixed regulators, the 317K and 317T are useful in a wide variety of other applications. Since the regulator is "floating" and sees only the input-to-output differential voltage, supplies of several hundred volts can be regulated as long as the maximum input to output differential is not exceeded.

Also, they make especially simple adjustable switching regulators, programmable output regulators, or by connecting a fixed resistor between the adjustment and output, the 317K and 317T can be used as a precision current regulator. Supplies with electronic shutdown can be achieved by clamping the adjustment terminal to ground which programs the output to 1.2 V where most loads draw little current.

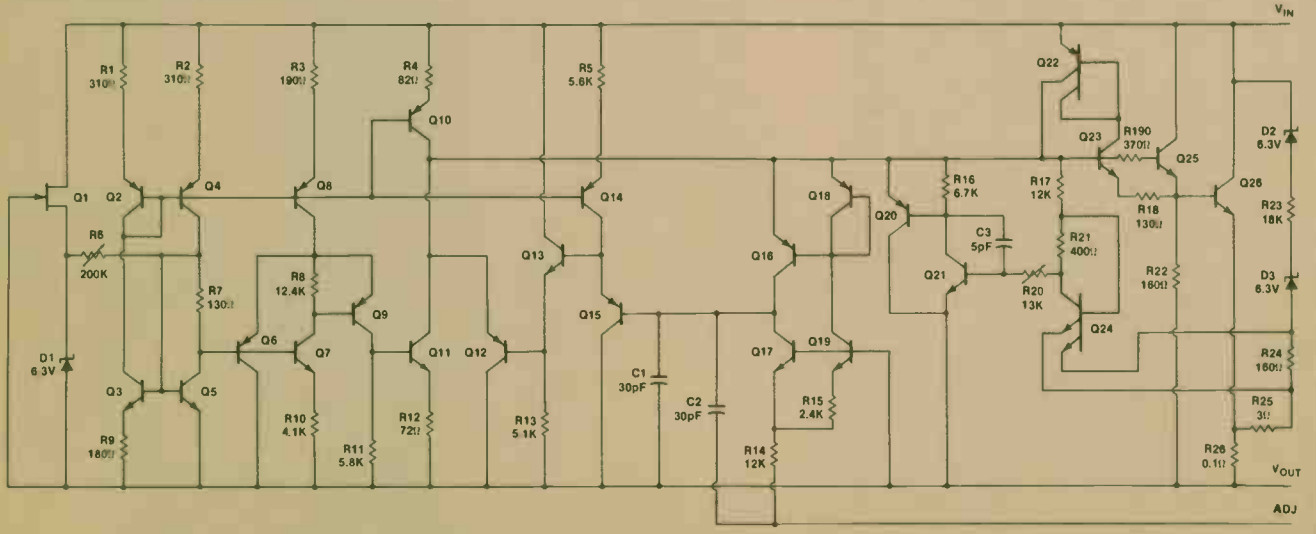
FEATURES

- Adjustable output down to 1.2V
- Guaranteed 1.5A output current
- Line regulation typically 0.01%/V
- Load regulation typically 0.1%
- Current limit constant with temperature
- 100% electrical burn-in
- Eliminates the need to stock many voltages
- Standard 3-lead transistor package
- 80 dB ripple rejection

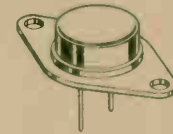
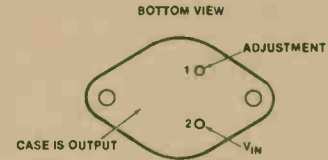
ABSOLUTE MAXIMUM RATINGS

Power Dissipation	Internally limited
Input-Output Voltage Differential	40V
Operating Junction Temperature Range	0 to +125°C
Storage Temperature	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

INTERNAL CIRCUIT

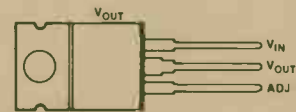


PIN CONNECTIONS



317K

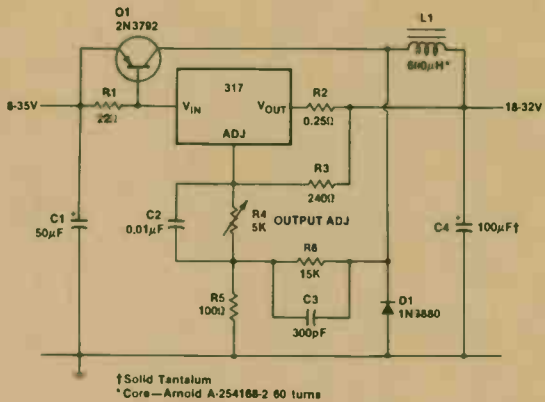
FRONT VIEW



317T

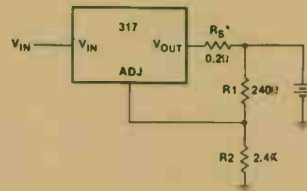
317K 276-1777 317T 276-1778

TYPICAL APPLICATIONS

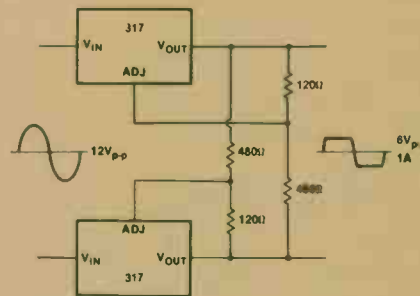


†Solid Tantalum
*Core—Arnold A-254188-2 80 turns

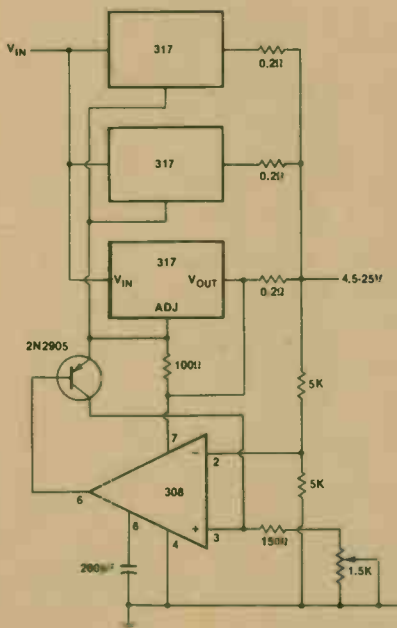
Low Cost 3A Switching Regulator



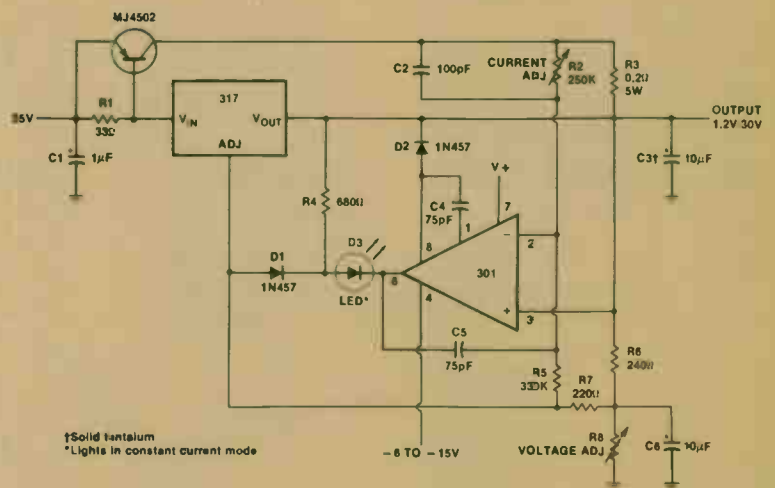
12V Battery Charger



AC Voltage Regulator



Adjustable 4A Regulator

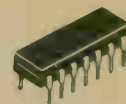


†Solid tantalum
*Lights in constant current mode

5A Constant Voltage/Constant Current Regulator

723
276-1740

ADJUSTABLE VOLTAGE REGULATOR



GENERAL DESCRIPTION

The 723 is a voltage regulator designed primarily for series regulator applications. By itself, it will supply output currents up to 150 mA; but external transistors can be added to provide any desired load current. The circuit features extremely low standby current drain, and provision is made for either linear or foldback current limiting.

FEATURES

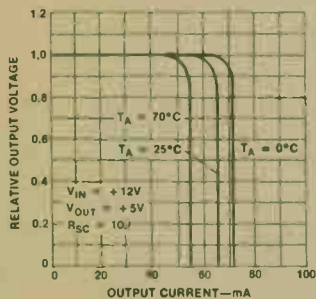
- 150 mA output current without external pass transistor
- Output currents in excess of 10A possible by adding external transistors
- Input voltage 40V max
- Output voltage adjustable from 2V to 37V
- Can be used as either a linear or a switching regulator

The 723 is also useful in a wide range of other applications such as a shunt regulator, a current regulator or a temperature controller.

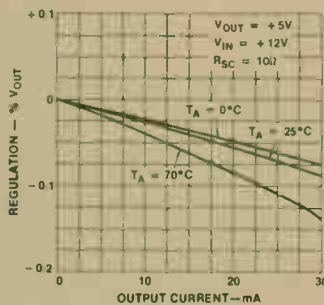
ABSOLUTE MAXIMUM RATINGS

Pulse Voltage from V^+ to V^- (50 ms)	50V
Continuous Voltage from V^+ to V^-	40V
Input-Output Voltage Differential	40V
Maximum Amplifier Input Voltage (Either Input)	7.5V
Maximum Amplifier Input Voltage (Differential)	5V
Current from V_Z	25 mA
Current from V_{REF}	15 mA
Internal Power Dissipation Metal Can	800 mW
Cavity DIP	900 mW
Molded DIP	660 mW
Operating Temperature Range	0 to +70°C
Storage Temperature Range Metal Can	-65 to +150°C
DIP	-55 to +125°C
Lead Temperature (Soldering, 10 sec)	300°C

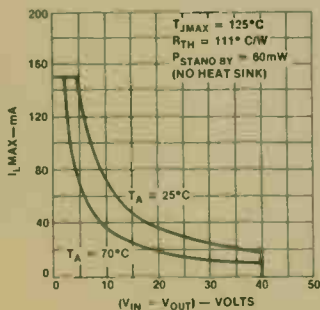
TYPICAL CHARACTERISTICS



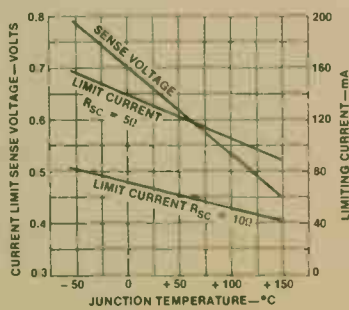
Relative Output Voltage vs Output Current



Load Regulation vs Output Current

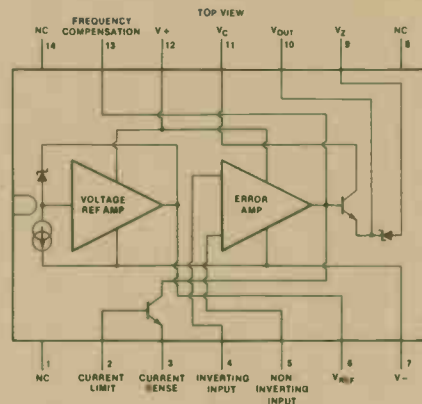


Maximum Load Current vs Input-Output Voltage Differential

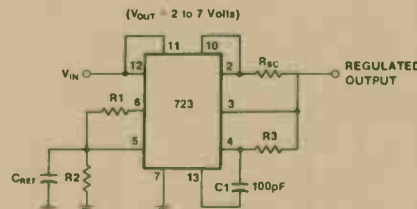


Current Limit Sense Voltage vs Junction Temperature

PIN CONNECTION

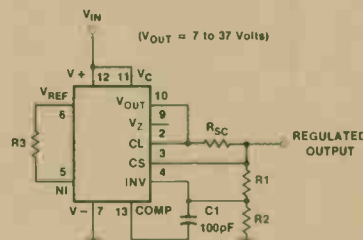


TYPICAL APPLICATIONS



TYPICAL PERFORMANCE
 Regulated Output Voltage 5V
 Line Regulation ($\Delta V_{IN} = 3V$) 0.5mV
 Load Regulation ($\Delta I_L = 50mA$) 1.5mV
 Note: $R3 = \frac{R1 R2}{R1 + R2}$ for minimum temperature drift.

Basic Low Voltage Regulator



TYPICAL PERFORMANCE
 Regulated Output Voltage 15V
 Line Regulation ($\Delta V_{IN} = 3V$) 1.5mV
 Load Regulation ($\Delta I_L = 50mA$) 4.5mV
 Note: $R3 = \frac{R1 R2}{R1 + R2}$ for minimum temperature drift.

Basic High Voltage Regulator

5V VOLTAGE REGULATOR
12V VOLTAGE REGULATOR
15V VOLTAGE REGULATOR

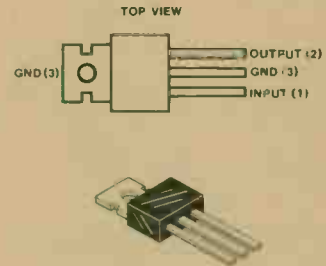
7805
276-1770
7812
276-1771
7815
276-1772

GENERAL DESCRIPTION

This series of three terminal regulators is available with several fixed output voltages making them useful in a wide range of applications. One of these is local on card regulation, eliminating the distribution problems associated with single point regulation. The voltages available allow these regulators to be used in logic systems, instrumentation, HiFi, and other solid state electronic equipment. Although designed primarily as fixed voltage regulators these devices can be used with external components to obtain adjustable voltages and currents.

This series will allow over 1.5A load current if adequate heat sinking is provided. Current limiting is included to limit the peak output current to a safe value. Safe area protection for the output transistor is provided to limit internal power dissipation. If internal power dissipation becomes too high for the heat sinking provided, the thermal shutdown circuit takes over preventing the IC from overheating.

PIN CONNECTION



FEATURES

- Internal thermal overload protection
- No external components required
- Output transistor safe area protection
- Internal short circuit current limit

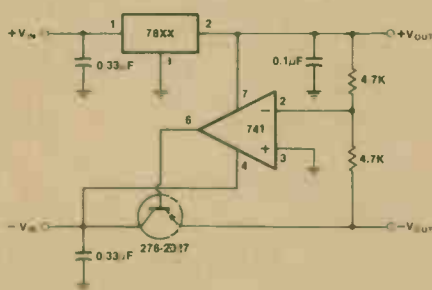
VOLTAGE RANGE

7805	5V
7812	12V
7815	15V

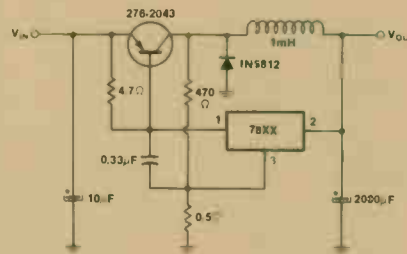
ABSOLUTE MAXIMUM RATINGS

Input Voltage	
(Output Voltage Options 5V through 18V)	35V
(Output Voltage Option 24V)	40V
Internal Power Dissipation	Internally Limited
Maximum Junction Temperature	150°C
Operating Temperature Range	0 to +70°C
Storage Temperature Range	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

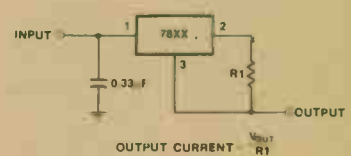
TYPICAL APPLICATIONS



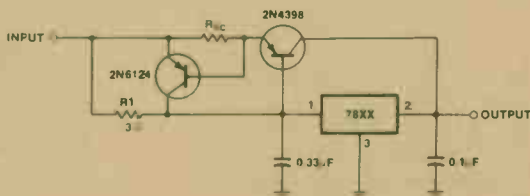
±Tracking Voltage Regulator



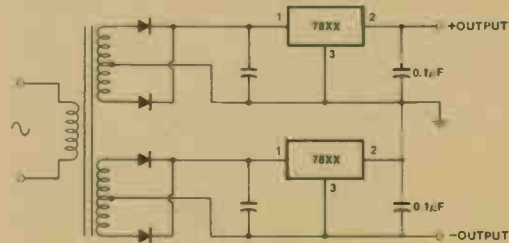
Switching Regulator



Current Regulator



High Output Current, Short Circuit Protected



Positive and Negative Regulator

LINEAR (VOLT REG)

7905
276-1773

3-TERMINAL NEGATIVE REGULATOR

GENERAL DESCRIPTION

This regulator employs internal current limiting, safe area protection and thermal shutdown for protection against virtually all overload conditions.

Low ground pin current of the 7905 allows output voltage to be easily boosted above the preset value with a resistor divider. The low quiescent current drain of this device ensures good regulation in the voltage boosted mode.

FEATURES

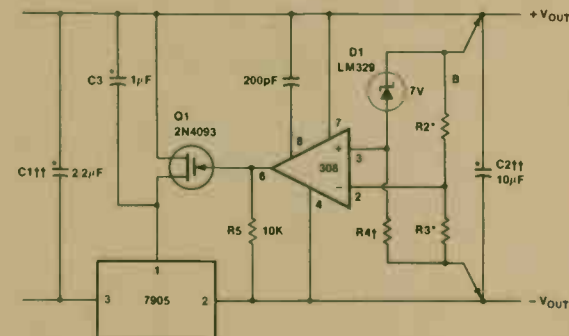
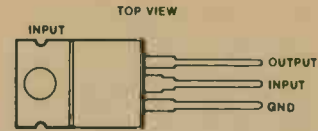
- Thermal, short circuit and safe area protection
- High ripple rejection
- 1.5A output current
- 4% preset output voltage

ABSOLUTE MAXIMUM RATINGS

Input Voltage ($V_o = 5V$)	.....	-35 V
Input/Output Differential ($V_o = 5V$)	.....	25 V
Power Dissipation	.....	Internally Limited
Operating Temperature Range	.....	0 to +125°C
Storage Temperature Range	.....	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	.....	230°C

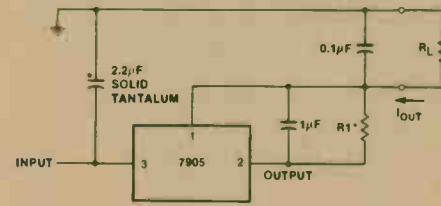
TYPICAL APPLICATIONS

PIN CONNECTION



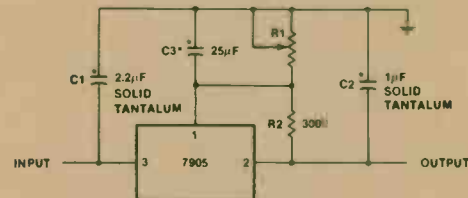
Load and line regulation - 0.01%, temperature stability & 0.2%
 † Determines zener current.
 †† Solid tantalum
 *Select resistors to set output voltage: 2ppm/°C tracking suggested

High Stability 1 Amp Regulator



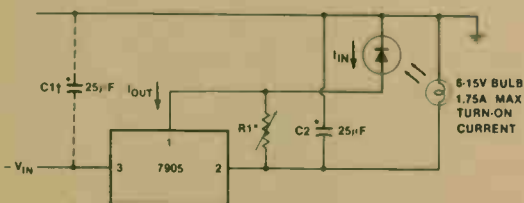
$$I_{OUT} = 1mA + 5V/R1$$

Current Source



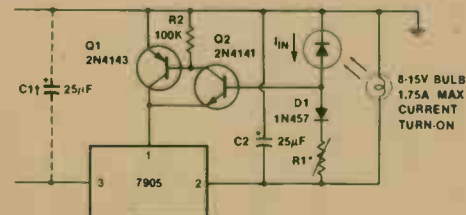
*Improves transient response and ripple rejection.
 Do not increase beyond 50µF.
 $V_{OUT} = V_{SET} \frac{R1 + R2}{R2}$

Variable Output



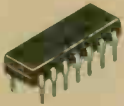
*Lamp brightness increases until $I_{IN} = I_{OUT} (1mA) + 5V/R1$
 † Necessary only if raw supply filter capacitor is more than 2" from LM7905CT

Light Controller Using a Silicon Photo Cell



*Lamp brightness increases until $I_{IN} = 5V/R1$ (I_{IN} can be set as low as 1µA).
 † Necessary only if raw supply filter capacitor is more than 2" from LM7905CT

Light Controller Using a Silicon Photo Cell



QUAD BI-FET OPERATIONAL AMPLIFIER

TL084CN
276-1714

GENERAL DESCRIPTION

The TL084 JFET-input operational amplifier is designed to offer better performance than any previously developed quad-operational amplifier. Each of these JFET-input operational amplifiers incorporates well-matched, high-voltage JFET and bipolar transistors in a monolithic integrated circuit. The devices feature high slew rates, low input bias and offset currents, and low offset voltage temperature coefficient.

FEATURES

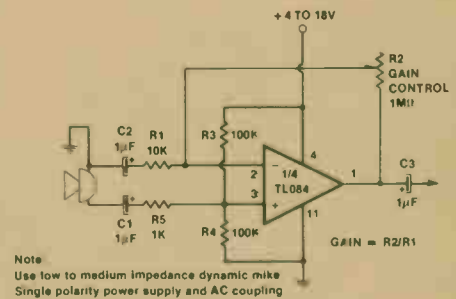
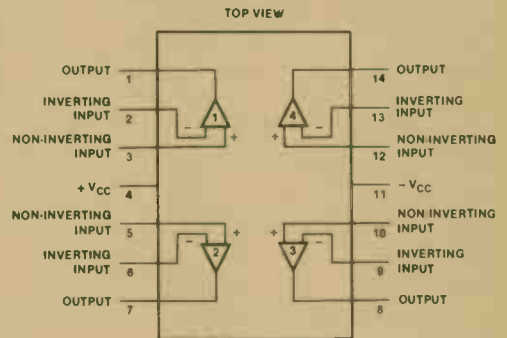
- Low power consumption
- Wide common-mode and differential voltage ranges
- Low input bias and offset currents
- Output short-circuit protection
- High input impedance—JFET-input stage
- Internal frequency compensation
- Latch-up-free operation
- High slew rate—13 V/μs Typ

ABSOLUTE MAXIMUM RATINGS

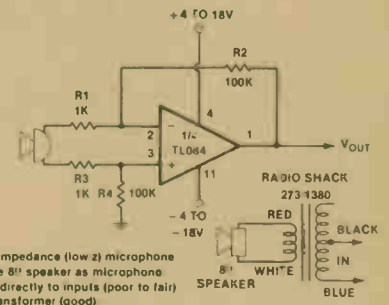
Supply Voltage, V_{CC}^+	18V
Supply Voltage, V_{CC}^-	-18V
Differential Input Voltage	±30V
Input Voltage	±15V
Duration of Output Short Circuit	Unlimited
Continuous Total Dissipation at (or Below) 25°C Free-Air Temperature	680 mW
Operating Free-Air Temperature Range	0 to +70°C
Storage Temperature Range	-65 to +150°C
Lead Temperature 1/16 inch from Case for 10 Seconds	260°C

TYPICAL APPLICATIONS

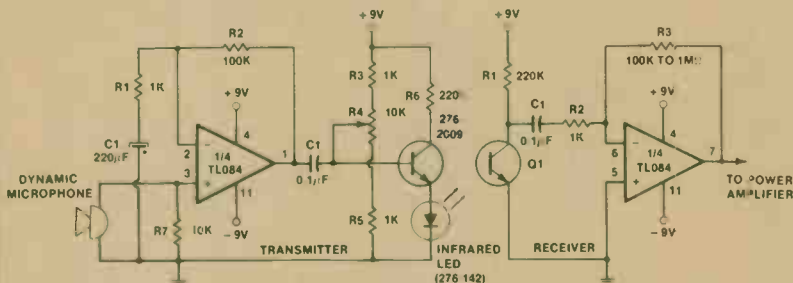
PIN CONNECTION



Microphone Preamplifier

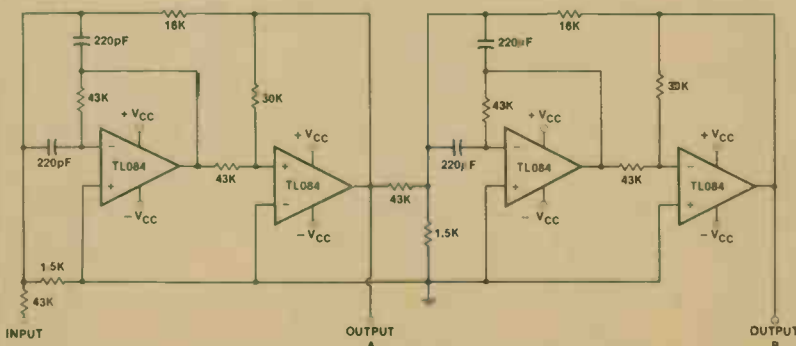


Low-Z Preamplifier

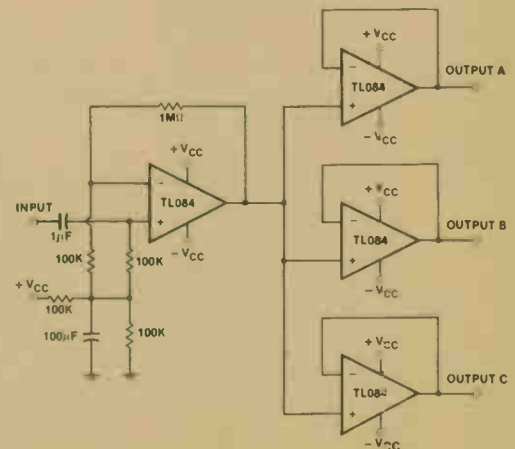


Point the led at Q1 and adjust R4 until best voice quality is obtained. (R4 applies prebias to LED) R6 limits maximum led current to a safe 40mA. Use RADIO SHACK 276-130 phototransistor for Q1. Maximum range: Hundreds of feet at night with lenses at Q1 and LED. Power amp: See LM386.

Infrared Voice Communicator



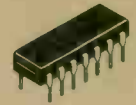
Positive-Feedback Bandpass Filter



Audio Distribution Amplifier

324
276-1711

QUAD OP AMP



GENERAL DESCRIPTION

The 324 series consists of four independent, high gain, internally frequency compensated operational amplifiers which were designed specifically to operate from a single power supply over a wide range of voltages. Operation from split power supplies is also possible and the low power supply current drain is independent of the magnitude of the power supply voltage.

Application areas include transducer amplifiers, dc gain blocks and all the conventional op amp circuits which now can be more easily implemented in single power supply systems. For example, the 324 series can be directly operated off of the standard +5 V_{DC} power supply voltage which is used in digital systems and will easily provide the required interface electronics without requiring the additional +15 V_{DC} power supplies.

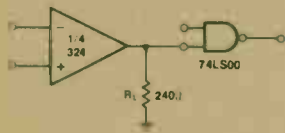
FEATURES

- Internally frequency compensated for unity gain
- Large dc voltage gain 100 dB
- Wide bandwidth (unity gain) 1 MHz (temperature compensated)
- Wide power supply range:
Single supply 3 V_{DC} to 30 V_{DC}
or dual supplies ±1.5 V_{DC} to ±15 V_{DC}
- Very low supply current drain (800 μA)—essentially independent of supply voltage (1 mW/op amp at +5 V_{DC})
- Low input biasing current 45 nA_{DC} (temperature compensated)
- Low input offset voltage 2 mV_{DC} and offset current 5 nA_{DC}
- Input common-mode voltage range includes ground
- Differential input voltage range equal to the power supply voltage
- Large output voltage swing 0 V_{DC} to V⁺ - 1.5 V_{DC}

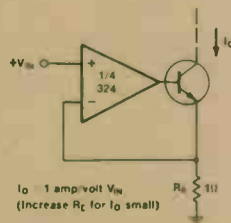
ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V ⁺	32 V _{DC} or ±16 V _{DC}
Differential Input Voltage	32 V _{DC}
Input Voltage	-0.3 V _{DC} to +32 V _{DC}
Power Dissipation	
Molded DIP	570 mW
Cavity DIP	900 mW
Output Short-Circuit to GND (One Amplifier)	Continuous
V ⁺ ≤ 15 V _{DC} and T _A = 25°C	
Input Current (V _{IN} = -0.3 V _{OL})	50 mA
Operating Temperature Range	0 to +70°C
Storage Temperature Range	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

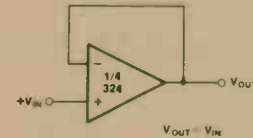
TYPICAL APPLICATIONS



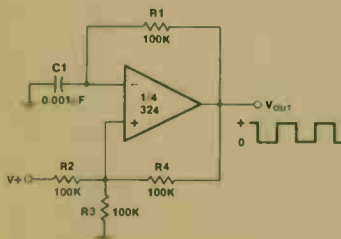
Driving TTL



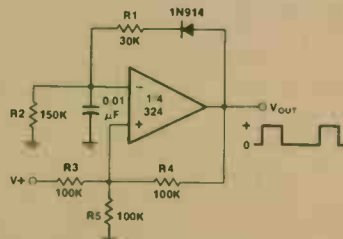
High Compliance Current Sink



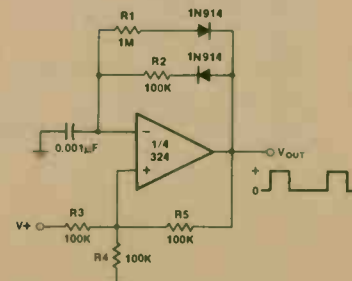
Voltage Follower



Squarewave Oscillator

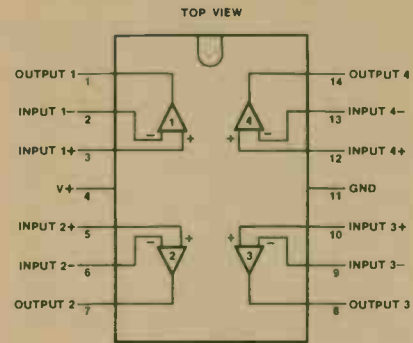


Pulse Generator

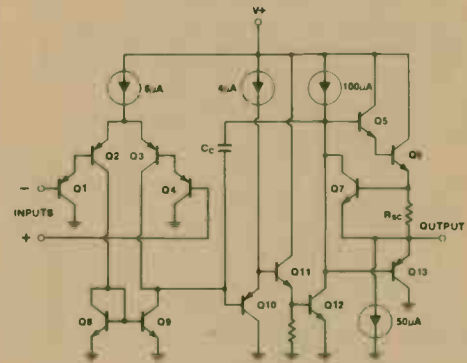


Pulse Generator

PIN CONNECTION



INTERNAL CIRCUIT (Each Amplifier)





WIDE BANDWIDTH DUAL JFET INPUT OPERATIONAL AMPLIFIER

353
276-1715

GENERAL DESCRIPTION

These devices are low cost, high speed, dual JFET input operational amplifiers with an internally trimmed input offset voltage (BI-FET II™ technology). They require low supply current yet maintain a large gain bandwidth product and fast slew rate. In addition, well matched high voltage JFET input devices provide very low input bias and offset currents.

These amplifiers may be used in applications such as high speed integrators, fast D/A converters, sample and hold circuits and many other circuits requiring low input offset voltage, low input bias current, high input impedance, high slew rate and wide bandwidth. The devices also exhibit low noise and offset voltage drift.

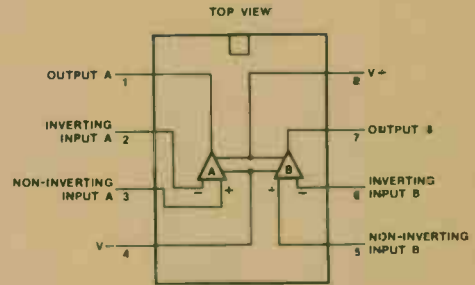
FEATURES

- Internally trimmed offset voltage = 2 mV
- Low input bias current = 50 pA
- Low input noise voltage = 16 nV/√Hz
- Low input noise current = 0.01 pA/√Hz
- Wide gain bandwidth = 4 MHz
- High slew rate = 13 V/μs
- Low supply current = 3.6 mA
- High input impedance = 10¹²Ω
- Low total harmonic distortion A_V = 10, R_L = 10k, V_O = 20 Vp-p, BW = 20 Hz–20kHz = <0.02%
- Low 1/f noise corner = 50 Hz
- Fast settling time to 0.01% = 2 μs

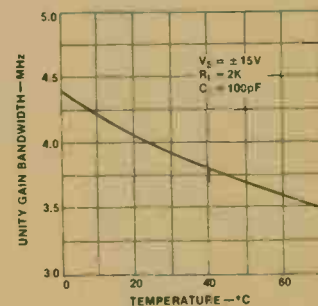
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	±18V
Power Dissipation	500 mW
Differential Input Voltage	±30V
Input Voltage Range	±15V
Output Short Circuit Duration	Continuous
T _{J(MAX)}	115°C
Operating Temperature Range	0 to +70°C
Storage Temperature Range	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

PIN CONNECTION

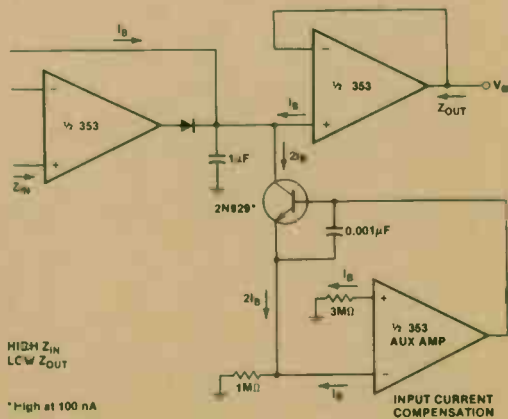


TYPICAL CHARACTERISTICS

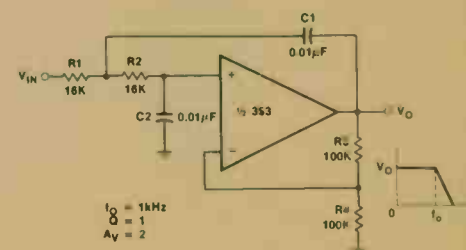


Unity Gain Bandwidth vs Temperature

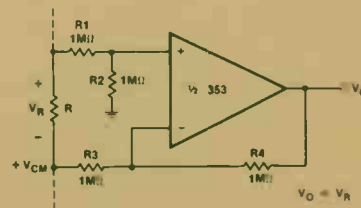
TYPICAL APPLICATIONS



Low Drift Peak Detector



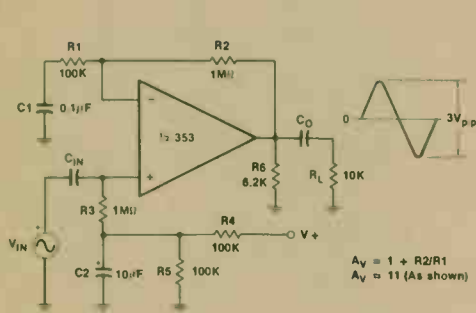
DC Coupled Low-Pass RC Active Filter



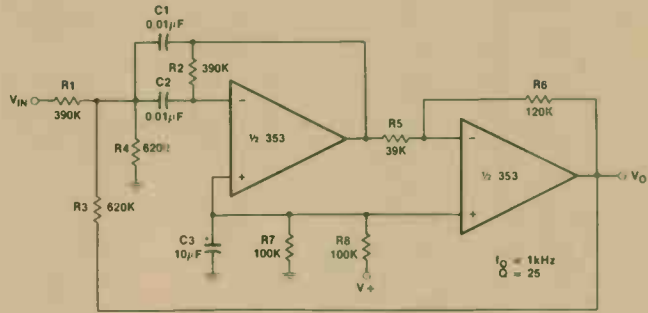
Ground Referencing A Differential Input Signal

353 276-1715

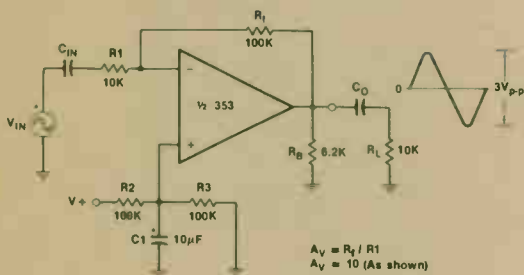
TYPICAL APPLICATIONS (Cont'd)



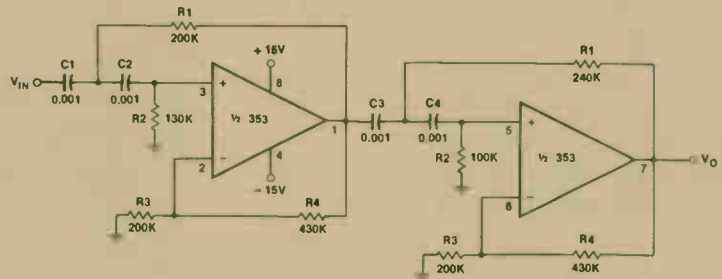
AC Coupled Non-Inverting Amplifier



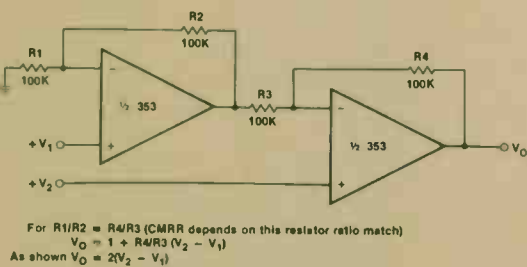
Bandpass Active Filter



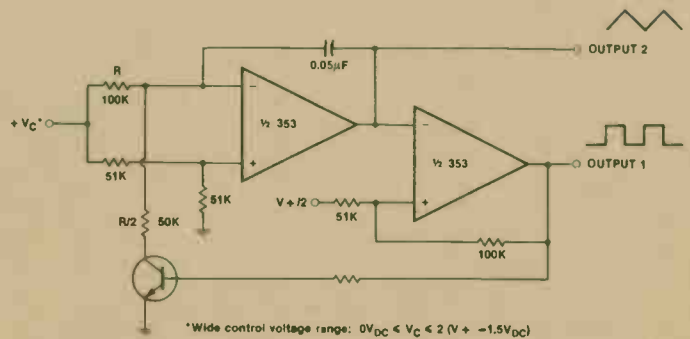
AC Coupled Inverting Amplifier



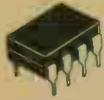
Fourth Order High Pass Butterworth Filter



High Input Z, DC Differential Amplifier



Voltage Controlled Oscillator (VCO)



OPERATIONAL AMPLIFIER

741
276-007

GENERAL DESCRIPTION

The 741 series are general purpose operational amplifiers which feature improved performance over industry standards.

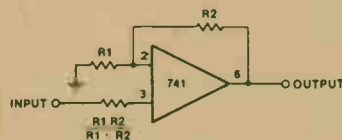
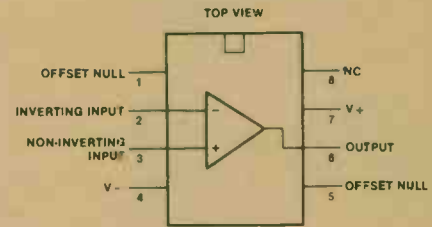
The amplifiers offer many features which make their application nearly foolproof: overload protection on the input and output, no latch-up when the common mode range is exceeded, as well as freedom from oscillations.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage	±16V
Power Dissipation	500 mW
Differential Input Voltage	±30V
Input Voltage	±15V
Output Short Circuit Duration	Indefinite
Operating Temperature Range	0 to +70°C
Storage Temperature Range	- 65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

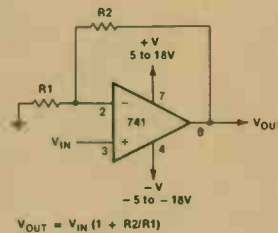
TYPICAL APPLICATIONS

PIN CONNECTION



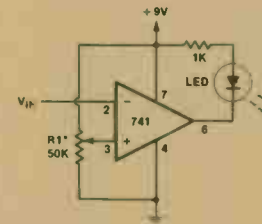
GAIN	R1	R2	BW	R _{IN}
10	1K	9K	100KHz	400MΩ
100	100Ω	9.9K	10KHz	280MΩ
1000	100Ω	99.9K	1KHz	80MΩ

Non-Inverting Amplifier



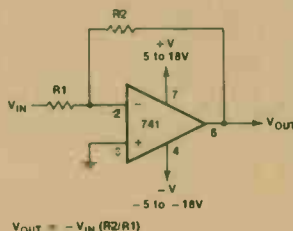
$$V_{OUT} = V_{IN} (1 + R2/R1)$$

Non-Inverting Amplifier

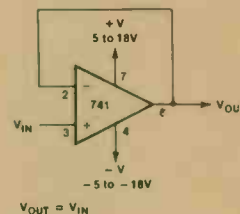


*R1 sets the voltage detection threshold (up to +9V).
When V_{IN} exceeds the threshold (reference), the LED glows.

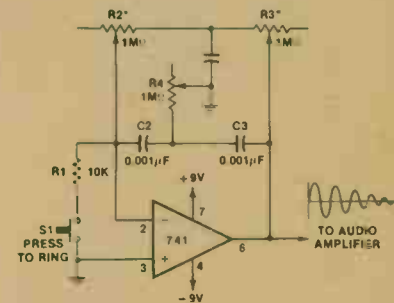
Level Detector



Inverting Amplifier

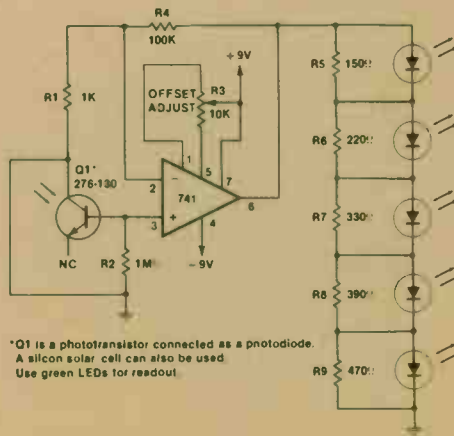


Unity Gain Follower



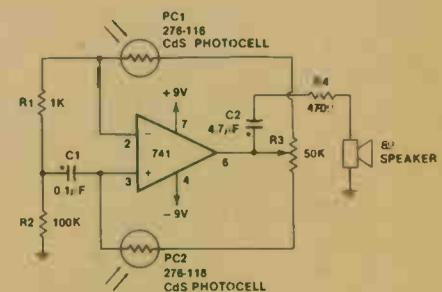
*Adjust R3 to just below oscillation point
Adjust R2 and R3 for sounds such as bell, drum, tinkling, etc.

Electronic Bell



*Q1 is a phototransistor connected as a photodiode.
A silicon solar cell can also be used.
Use green LEDs for readout.

Bargraph Light Meter

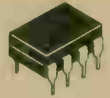


Light on PC1 decreases tone frequency
Light on PC2 increases tone frequency

Audible Light Sensor

1458
276-038

DUAL OPERATIONAL AMPLIFIER



GENERAL DESCRIPTION

The 1458 is a general purpose dual operational amplifier. The two amplifiers share a common bias network and power supply leads. Otherwise, their operation is completely independent.

FEATURES

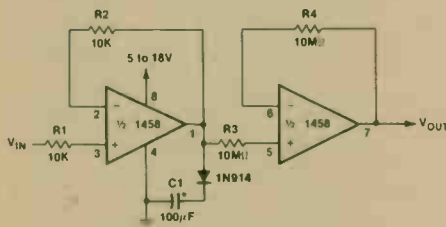
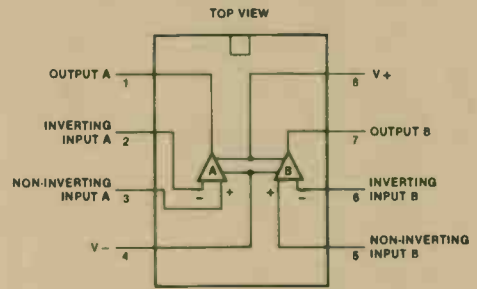
- No frequency compensation required.
- Short-circuit protection
- Wide common-mode and differential voltage ranges
- Low-power consumption
- No latch up when input common mode range is exceeded

ABSOLUTE MAXIMUM RATINGS

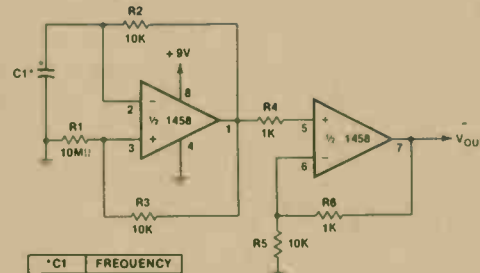
Supply Voltage	.....	±16V
Power Dissipation	.....	400 mW
Differential Input Voltage	.....	±30V
Input Voltage	.....	±15V
Output Short-Circuit Duration	.....	Indefinite
Operating Temperature Range	.....	0 to +70°C
Storage Temperature Range	.....	-65 to +150°C
Lead Temperature (Soldering, 10 sec)	.....	300°C

TYPICAL APPLICATIONS

PIN CONNECTION



C1 stores the peak voltage at V_{IN}

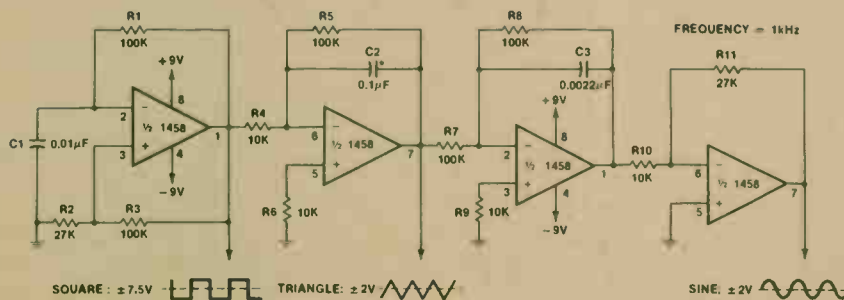


*C1	FREQUENCY
0.001 μ F	5872Hz
0.010 μ F	660Hz
0.100 μ F	51Hz
1.000 μ F	8Hz

Pulses are DC when $C1 = 0.1\mu$ F
Amplitude is 5 volts.

Peak Detector

Pulse Generator

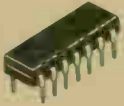


SQUARE: $\pm 7.5V$ TRIANGLE: $\pm 2V$

SINE: $\pm 2V$

Function Generator

FREQUENCY = 1kHz



QUAD OPERATIONAL NORTON AMPLIFIER

3900
276-1713

GENERAL DESCRIPTION

The 3900 series consists of four independent, dual input, internally compensated amplifiers which were designed specifically to operate off of a single power supply voltage and to provide a large output voltage swing. These amplifiers make use of a current mirror to achieve the non-inverting input function. Application areas include: ac amplifiers, RC active filters, low frequency triangle, squarewave and pulse waveform generation circuits, tachometers and low speed, high voltage digital logic gates.

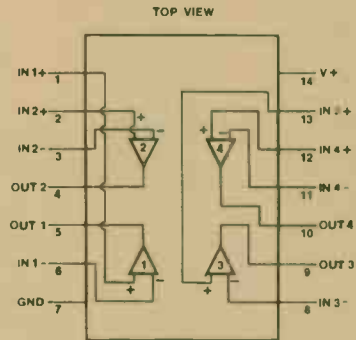
FEATURES

- Wide single supply voltage 4 V_{DC} to 36 V_{DC} range or dual supplies ±18 V_{DC} to ±18 V_{DC}
- Supply current drain independent of supply voltage
- Low input biasing current 30 nA
- High open-loop gain 70 dB
- Wide bandwidth 2.5 MHz (Unity Gain)
- Large output voltage swing (V⁺ - 1) V_{p-p}
- Internally frequency compensated for unity gain
- Output short-circuit protection

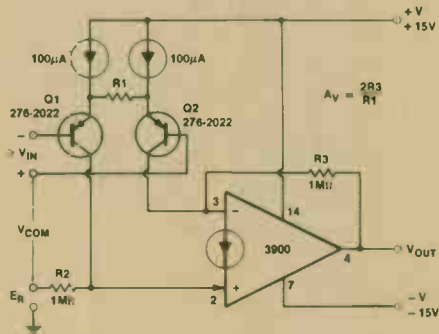
ABSOLUTE MAXIMUM RATINGS

Supply Voltage (Wide Range, Single Supply)	32 V _{DC}
Supply Voltage (Wide Range, Dual Supply)	±16 V _{DC}
Power Dissipation (T _A = 25°C)	
Flat Pack	570 mW
Input Currents, I _{IN+} or I _{IN-}	20 mA _{DC}
Output Short-Circuit Duration—One Amplifier	Continuous
T _A = 25°C (See Application Hints)	
Operating Temperature Range	0 to +70°C
Storage Temperature Range	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

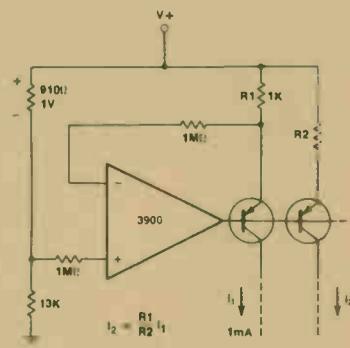
PIN CONNECTION



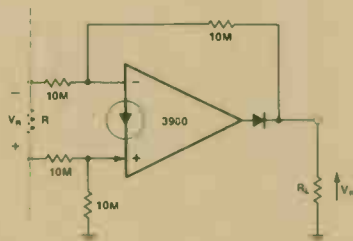
TYPICAL APPLICATIONS



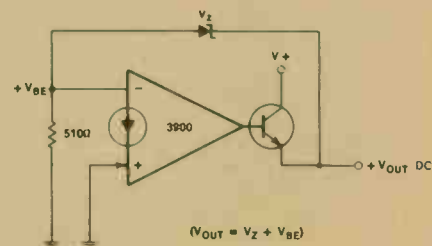
Basic Instrumentation Amplifier



Fixed Current Sources



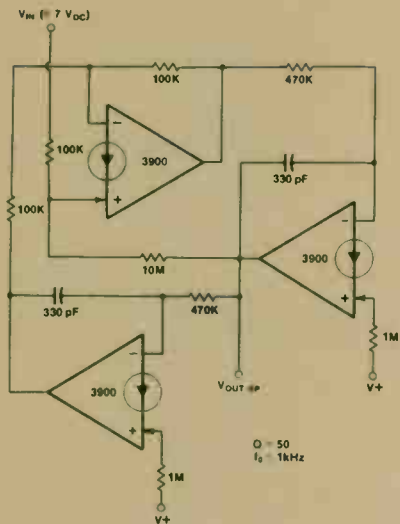
Ground-Referencing a Differential Input Signal



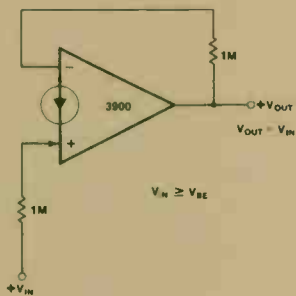
Voltage Regulator

3900 276-1713

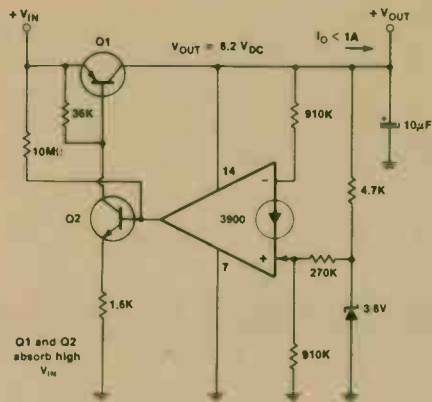
TYPICAL APPLICATIONS (Con't)



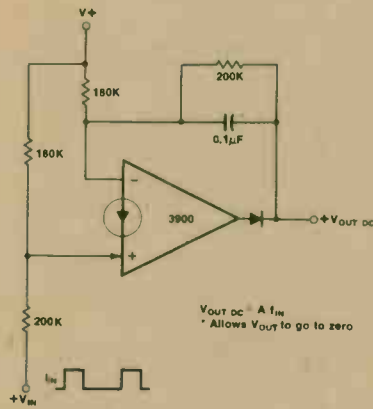
Bi-Quad Active Filter
(2nd Degree State-Variable Network)



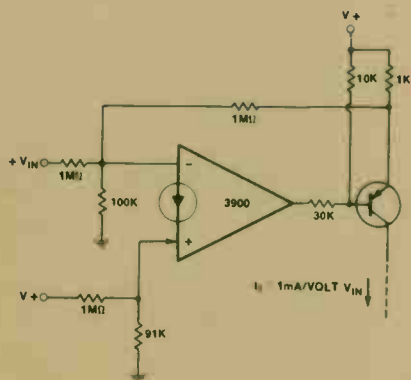
Buffer Amplifier



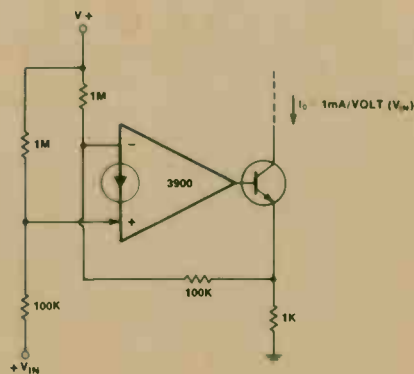
High V_{IN} , Low $(V_{IN} - V_{OUT})$ Self Regulator



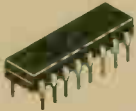
Tachometer



Voltage Controlled Current Source
(Transconductance Amplifier)



Voltage-Controlled Current Sink
(Transconductance Amplifier)



PROGRAMMABLE TIMER/COUNTER

uA2240C
276-1735

GENERAL DESCRIPTION

These circuits consist of a time-base oscillator, an eight-bit counter, a control flip-flop, and a voltage regulator. The frequency of the time-base oscillator is set by the time constant of an external resistor and capacitor at pin 13 and can be synchronized or modulated by signals applied to the modulation input. The output of the time-base section is applied directly to the input of the counter section and also appears at pin 14 (time base). The time-base pin may be used to monitor the frequency of the oscillator, to provide an output pulse to other circuitry, or (with the time-base section disabled) to drive the counter input from an external source. The counter input is activated on a negative-going transition. The reset input stops the time-base oscillator and sets each binary output, Q0 through Q7, and the time-base output to a TTL high level. After resetting, the trigger input starts the oscillator and all Q outputs go low. Once triggered, the uA2240 will ignore any signals at the trigger input until it is reset.

This timer/counter may be operated in the free-running mode or with output-signal feedback to the reset input for automatic reset. Two or more binary outputs may be connected together to generate complex pulse patterns, or each output may be connected separately to provide eight output frequencies. Using two circuits in cascade can provide precise time delays of up to three years.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V _{CC}	18 V
Output Voltage: Q0 thru Q7.....	18 V
Output Current: Q0 thru Q7.....	.10 mA
Regulator Output Current.....	-5 mA
Continuous Dissipation at (or below) 25°C Free-Air	
Temperature.....	650 mW
Operating Free-Air Temperature Range.....	0 to 70°C

RECOMMENDED OPERATING CONDITIONS

Supply Voltage.....	15 V
Timing Resistor.....	10 MΩ
Timing Capacitor.....	1000 μF
Counter Input Frequency (Pin 14).....	1.5 MHz
Pull-Up Resistor, Time-Base Output.....	20 KΩ
Trigger and Reset Input Pulse Voltage.....	to 3 V
Trigger and Reset Input Pulse Width.....	2 μs
External Clock Input Pulse Voltage.....	3 V
External Clock Input Pulse Width.....	1 μs

TEST CIRCUITS

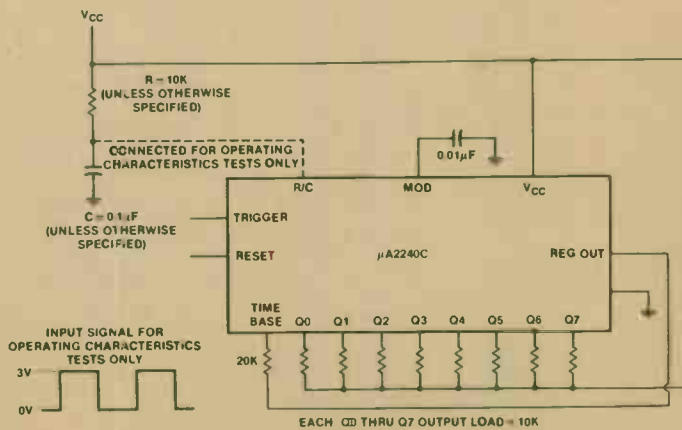


Figure 1—General Test Circuit

PIN CONNECTION

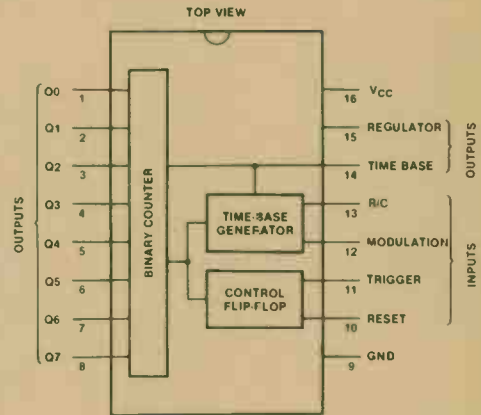


Figure 2—Counter Test Circuit

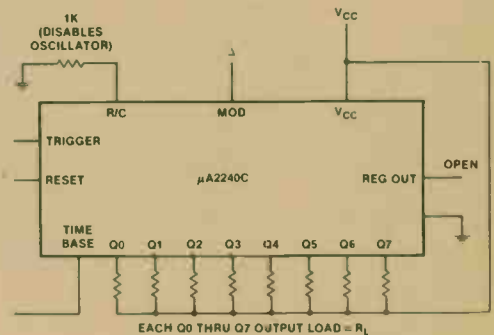
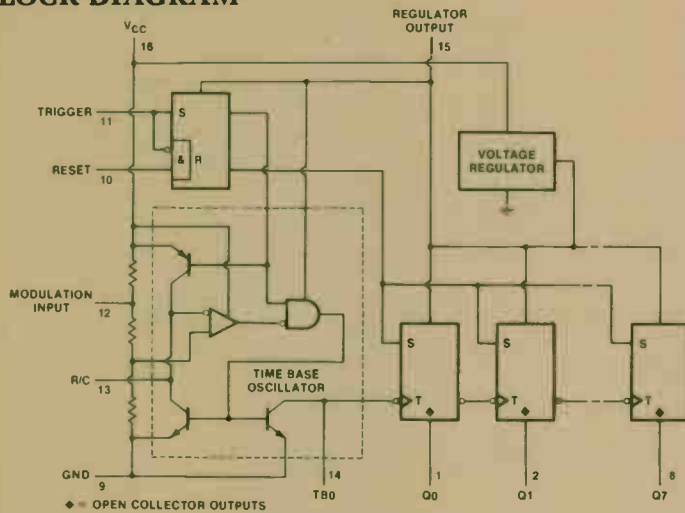


Figure 3—Reduced-Power Test Circuit (Time Base Disabled)

uA2240C 276-1735

BLOCK DIAGRAM



TYPICAL APPLICATIONS

These are voltage waveforms for typical operation of the uA2240. If both reset and trigger inputs are low during power-up, the timer/counter will be in a reset state with all binary (Q) outputs high and the oscillator stopped. In this state, a high level on the trigger input starts the time-base oscillator. The initial negative-going pulse from the oscillator sets the Q outputs to low logic levels at the beginning of the first time-base period. The uA2240 will ignore any further signals at the trigger input until after a reset signal is applied to the reset input. With the trigger input low, a high level at the reset input will set Q outputs high and stop the time-base oscillator. If the reset signal occurs while the trigger input is high, the reset is ignored. If the reset input remains high when the trigger input goes low, the uA2240 will reset.

In monostable application of the uA2240 one or more of the binary outputs will be connected to the reset terminal as shown in Figure 6. The binary outputs are open-collector stages that can be connected together to a common pull-up resistor to provide a "wired-OR" function. The combined output will be low as long as any one of the outputs is low. This type of arrangement can be used for time delays that are integer multiples of the time-base period. For example, if Q5 ($2^5 = 32$) only is connected to the reset input, every trigger pulse will generate a 32-period active-low output. Similarly, if Q0, Q4, and Q5 are connected to reset, each trigger pulse creates a 49-period delay.

In astable operation, the uA2240 will free-run from the time it is triggered until it receives an external reset signal.

The period of the time-base oscillator is equal to the RC time constant of an external resistor and capacitor connected as shown in Figure 6 when the modulation input is open (approximately 3.5 volts internal, see Figure 4). Under conditions of high supply voltage ($V_{CC} > 7$ V) and low value of timing capacitor ($C < 0.1\mu\text{F}$), the pulse width of the time-base oscillator may be too short to properly trigger the counters. This situation can be corrected by adding a 300-pico-farad capacitor between the time-base output and ground. The time-base output (TBO) is an open-collector output that requires a 20-K Ω pull-up resistor to Pin 15 for proper operation. The time-base pin may also be used as an input to the counters for an external time-base or as an active-low inhibit input to interrupt counting without resetting.

The modulation input varies the ratio of the time-base period to the RC time constant as a function of the dc bias voltage (see Figure 4). It can also be used to synchronize the timer/counter to an external clock or sync signal.

The regulator output is used internally to drive the binary counters and the control logic. This terminal can also be used to supply voltage to additional uA2240 devices to minimize power dissipation when several timer circuits are cascaded. For circuit operation with an external clock, the regulator output can be used as the V_{CC} input terminal to power down the internal time base and reduce power dissipation. When supply voltages less than 4.5 volts are used with the internal time base, pin 15 should be shorted to pin 16.

TYPICAL CHARACTERISTICS

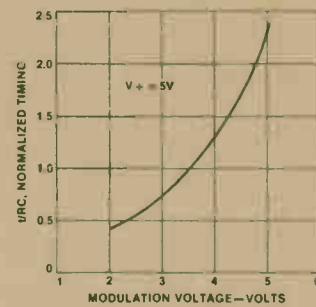


Figure 4—
Normalized Time-Base Period
Modulation Input Voltage

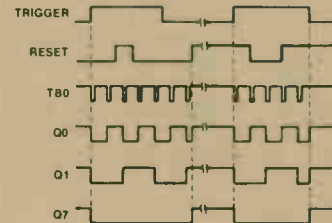


Figure 5—Timing Diagram
of Output Waveforms

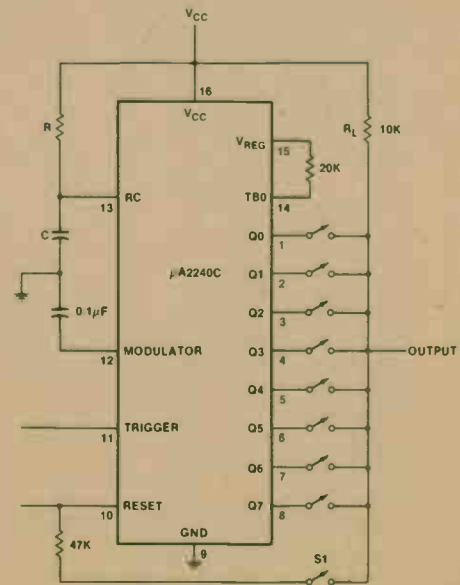
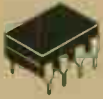


Figure 6—Basic Connections
for Timing Applications



TIMER

555
276-1723

GENERAL DESCRIPTION

The 555 is a highly stable device for generating accurate time delays or oscillation. Additional terminals are provided for triggering or resetting if desired. In the time delay mode of operation, the time is precisely controlled by one external resistor and capacitor. For astable operation as an oscillator, the free running frequency and duty cycle are accurately controlled with two external resistors and one capacitor. The circuit may be triggered and reset on falling waveforms, and the output circuit can source or sink up to 200 mA or drive TTL circuits.

FEATURES

- Timing from microseconds through hours
- Operates in both astable and monostable modes
- Adjustable duty cycle
- Output can source or sink 200 mA
- Output and supply TTL compatible
- Temperature stability better than 0.005% per °C
- Normally on and normally off output

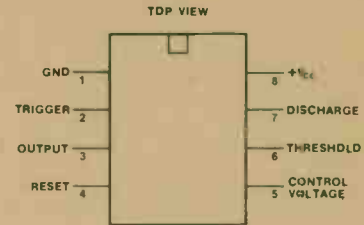
APPLICATIONS

- Precision timing
- Pulse generation
- Sequential timing
- Time delay generation
- Pulse width modulation
- Pulse position modulation
- Linear ramp generator

ABSOLUTE MAXIMUM RATINGS

Supply Voltage	+16V
Power Dissipation	600 mW
Operating Temperature Range	0 to +70 °C
Storage Temperature Range	-65 to +150 °C
Lead Temperature (Soldering, 10 seconds)	300 °C

PIN CONNECTION

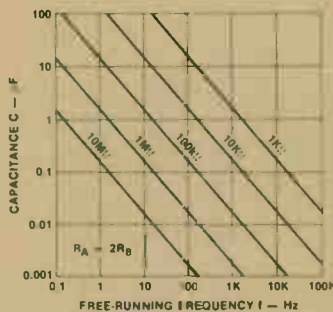


TRUTH TABLE

PIN 2 TRIGGER	PIN 6 THRESHOLD	PIN 4 RESET	PIN 3 OUTPUT
H	X	H	L
L	X	H	H
H	L	H	L
X	X	L	L

X = Don't Care L = Low Level H = High Level

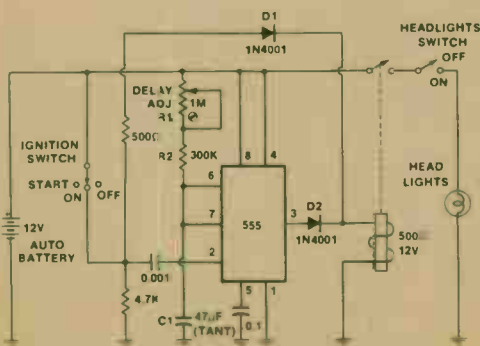
TYPICAL CHARACTERISTICS



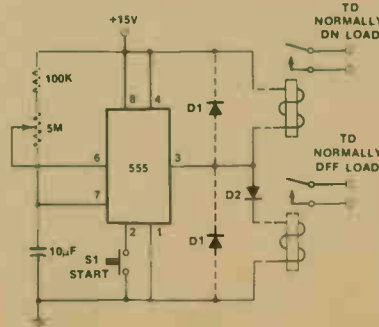
Capacitance vs Free-Running Frequency

The charge time (output high) is given by $t_1 = 0.693 (R_A + R_B) C$
 The discharge time (output low) is given by $t_2 = 0.693 R_B C$
 Thus the total period is $T = t_1 + t_2 = 0.693 (R_A + 2R_B) C$
 The frequency of oscillation is $f = 1/T = 1.44 / (R_A + 2R_B) C$

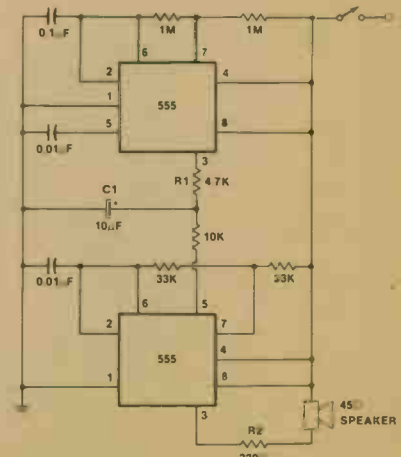
TYPICAL APPLICATIONS



Automatic Headlight Turn-Off Circuit



Relay Timer

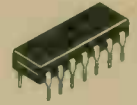


Warble Alarm Circuit

LINEAR (TIMER)

556
276-1728

DUAL TIMER



GENERAL DESCRIPTION

The 556 dual timing circuit is a highly stable controller capable of producing accurate time delays or oscillation. The 556 is a dual 555. Timing is provided by an external resistor and capacitor for each timing function. The two timers operate independently of each other sharing only V_{CC} and ground. The circuits may be triggered and reset on falling waveforms. The output structures may sink or source 200 mA.

FEATURES

- Timing from microseconds through hours
- Operates in both astable and monostable modes
- Replaces two 555 timers
- Adjustable duty cycle
- Output can source or sink 200 mA
- Output and supply TTL compatible
- Temperature stability better than 0.005% per °C
- Normally on and normally off output

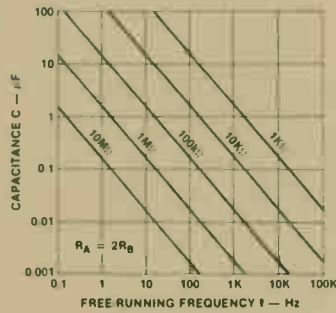
APPLICATIONS

- Precision timing
- Pulse generation
- Sequential timing
- Time delay generation
- Pulse width modulation
- Pulse position modulation
- Linear ramp generator

ABSOLUTE MAXIMUM RATINGS

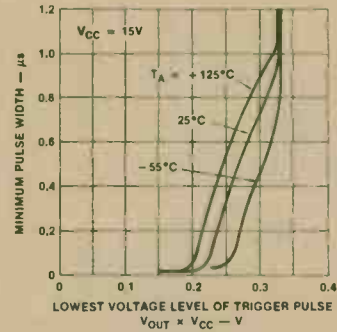
Supply Voltage	.....	+16V
Power Dissipation	.....	600 mW
Operating Temperature Range	.....	0 to +70°C
Storage Temperature Range	.....	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	.....	300°C

TYPICAL CHARACTERISTICS

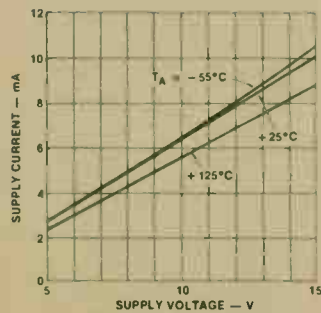


Capacitance vs Free-Running Frequency

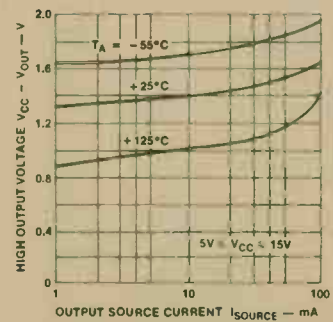
The charge time (output high) is given by $t_1 = 0.693 (R_A + R_B) C$
 The discharge time (output low) is given by $t_2 = 0.693 (R_B) C$
 Thus the total period is $T = t_1 + t_2 = 0.693 (R_A + 2R_B) C$
 The frequency of oscillation is $f = 1/T = 1.44 / (R_A + 2R_B) C$



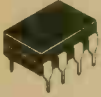
Minimum Pulse Width vs Lowest Voltage Level of Trigger Pulse



Supply Current vs Supply Voltage



High Output Voltage vs Output Source Current



LOW POWER GENERAL PURPOSE TIMER

7555
276-1743

GENERAL DESCRIPTION

The 7555 is a CMOS RC timer providing significantly improved performance over standard timers. Improved parameters include the low supply current, wide operating supply voltage range, low THRESHOLD, TRIGGER and RESET currents, no crowbaring of the supply current during any output transition, higher frequency performance and no requirement to decouple CONTROL VOLTAGE for stable operation.

Specifically, the 7555 is a stable controller capable of producing accurate time delays or frequency. In the time delay one shot mode of operation for each circuit, the time is precisely controlled by one external resistor and capacitor. For astable operation as an oscillator, the free running frequency and the duty cycle are both accurately controlled by two external resistors and one capacitor.

The circuits are triggered and reset on falling (negative) waveforms, and the output inverter can source or sink large currents to drive TTL loads or provide minimal offsets to drive CMOS loads.

FEATURES

- Low Supply Current—80µA typical
- Extremely low trigger, threshold and reset currents—20pA typical
- High speed operation—500 kHz guaranteed
- Wide operation supply voltage range guaranteed 2 to 18 volts
- Well behaved reset function—no crowbaring of supply during output transition.
- Can be used with higher impedance timing elements than regular 555 for longer RC time constants.
- Timing from microseconds through hours
- Operates in both astable and monostable modes
- Adjustable duty cycle
- High output source/sink driver-can drive TTL/CMOS
- Typical temperature stability of 0.005% per °C at 25°C
- Normally on and normally off output with very low offsets
- Completely static protected—no special handling considerations.

APPLICATIONS

- Precision timing
- Pulse generation
- Sequential timing
- Time delay generation
- Pulse width modulation
- Pulse position modulation
- Missing pulse detector

ABSOLUTE MAXIMUM RATINGS

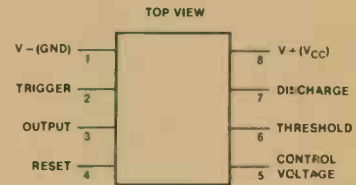
Supply Voltage, $V^+ - V^-$ +18V
 Input Voltage, Trigger, Threshold, Reset,
 Control Voltage (see note) $\leq V^+ + 0.3V$ to $\geq V^- - 0.3V$
 Output Current 100 mA
 Power Dissipation 200 mW
 Operating Temperature Range -20 to +70°C
 Storage Temperature Range -65 to +150°C
 Lead Temperature (Soldering, 60 Seconds) +300°C

Note: Due to the SCR structure inherent in the CMOS process used to fabricate these devices, connecting any terminal to a voltage greater than $V^+ + 0.3V$ or less than $V^- - 0.3V$ may cause destructive latchup. For this reason it is recommended that no inputs from external sources not operating from the same power supply be applied to the device before its power supply is established. In multiple systems, the supply of the 7555 must be turned on first.

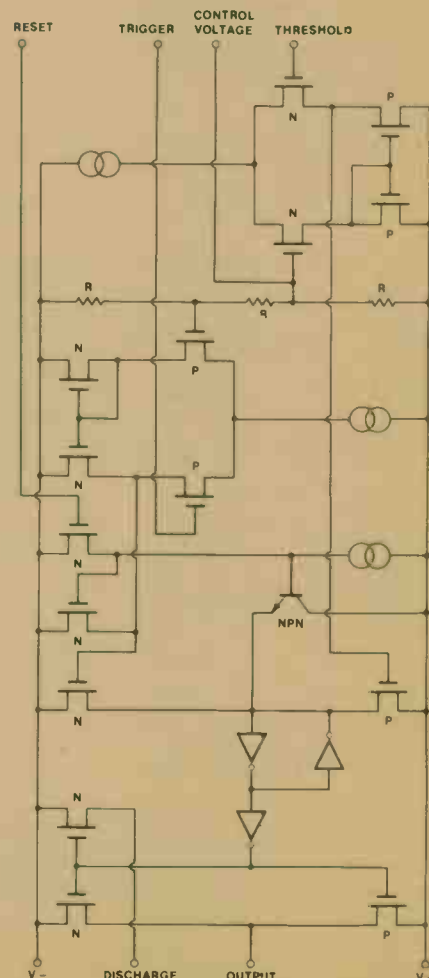
TRUTH TABLE

THRESHOLD VOLTAGE	TRIGGER VOLTAGE	RESET	OUTPUT	DISCHARGE SWITCH
DON'T CARE	DON'T CARE	LOW	LOW	ON
$>2/3(V^+ - V^-)$	$>2/3(V^+ - V^-)$	HIGH	LOW	ON
$1/3 < V_{TH} < 2/3$	$1/3 < V_{TH} < 2/3$	HIGH	?	?
$<1/3(V^+ - V^-)$	$<1/3(V^+ - V^-)$	HIGH	HIGH	OFF

PIN CONNECTION

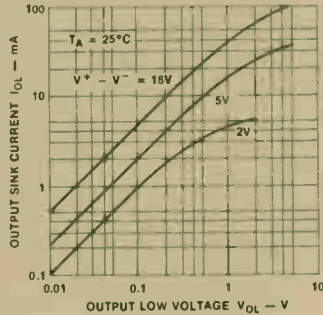


INTERNAL CIRCUIT

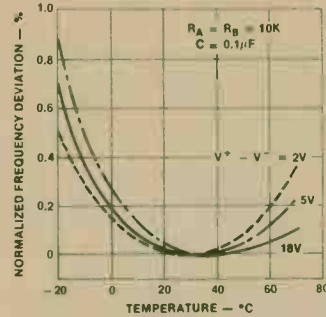


7555 276-1743

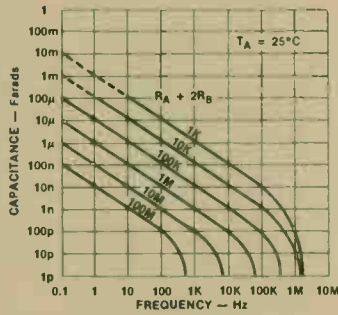
TYPICAL CHARACTERISTICS



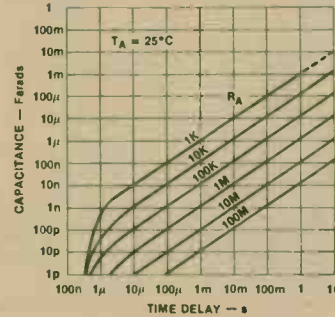
Output Sink Current vs Output Low Voltage



Normalized Frequency Deviation vs Temperature



Capacitance vs Free-Running Frequency



Capacitance vs Time Delay

TYPICAL APPLICATIONS

Astable Operation (Figure 1)

The circuit can be connected to trigger itself and free run as a multivibrator. The external capacitor charges through R_A and R_B and discharges through R_B only. Thus the duty cycle may be precisely set by the ratio of these two resistors. In this mode of operation, the capacitor charges and discharges between $1/3$ and $2/3$ ($V^+ - V^-$). As in the triggered mode, the charge and discharge times, and therefore the frequency, are essentially independent of the supply voltage.

The frequency of oscillation is given by:
$$f = \frac{1}{t} = \frac{1.46}{(R_A + 2 R_B) C}$$

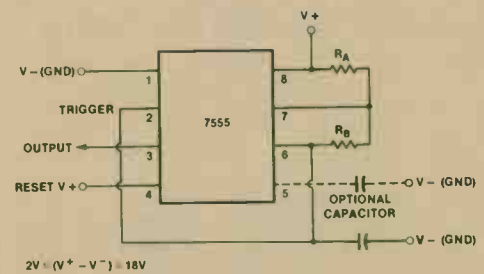


Figure 1—Astable Operation

Monostable Operation (Figure 2)

In this mode of operation, the timer functions as a one-shot. Initially the external capacitor (C) is held discharged by a transistor inside the timer. Upon application of a negative trigger pulse to pin 2, the flip flop is set which releases the short circuit across the external capacitor and drives the output high. The voltage across the capacitor now increases exponentially with a time constant $\tau = R_A C$. When the voltage across the capacitor equals $2/3$ ($V^+ - V^-$), the comparator resets the flip flop, which in turn discharges the capacitor rapidly and also drives the output to its low state.

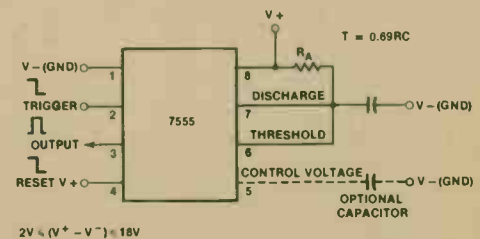
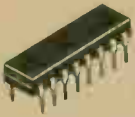


Figure 2—Monostable Operation



PROGRAMMABLE ANALOG COMPANDOR

NE572
276-1781

GENERAL DESCRIPTION

The NE572 is a dual channel, high performance gain control circuit in which either channel may be used for dynamic range compression or expansion. Each channel has a full wave rectifier to detect the average value of input signal; a linearized, temperature compensated variable gain cell (ΔG) and a dynamic time constant buffer. The buffer permits independent control of dynamic attack and recovery time with minimum external components and improved low frequency gain control ripple distortion over previous compandors.

FEATURES

- Independent control of attack and recovery time.
- Improved low frequency gain control ripple
- Complementary gain compression and expansion with external Op Amp
- Wide dynamic range — greater than 110 dB
- Temperature compensated gain control
- Low distortion gain cell
- Low noise — $6\mu V$ typical
- Wide supply voltage range — 6 to 22 V
- System level adjustable with external components.

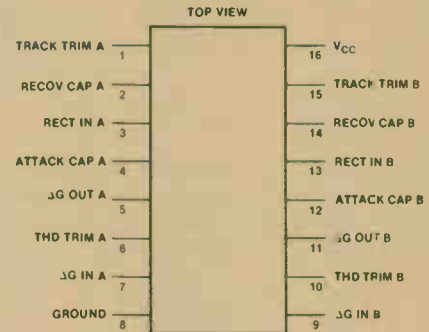
APPLICATIONS

- Dynamic noise reduction system
- Voltage control amplifier
- Stereo expander
- Automatic level control
- High level limiter
- Low level noise gate
- State variable filter

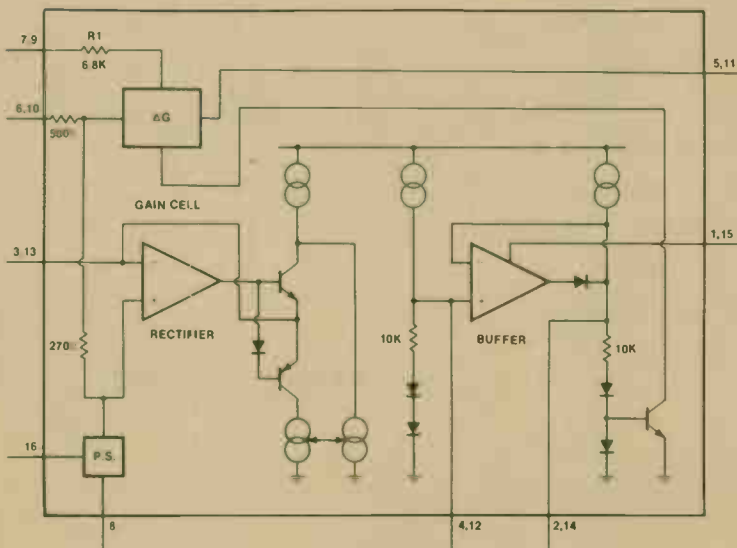
ABSOLUTE MAXIMUM RATINGS

Supply voltage 22 V
 Operating temperature range 0 to 70°C
 Power dissipation 500 mW

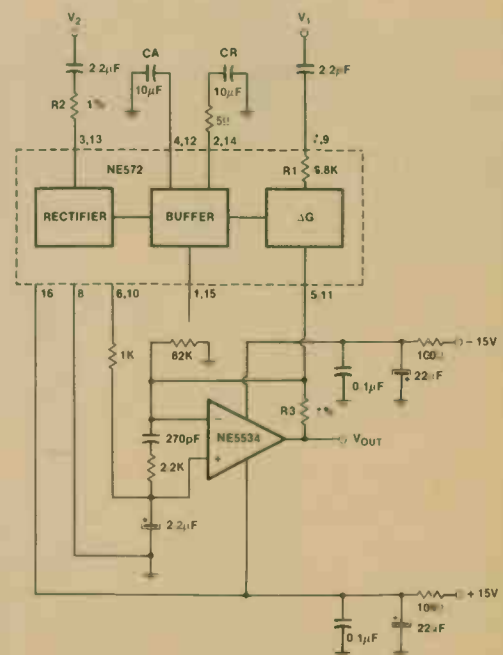
PIN CONNECTION



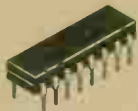
BLOCK DIAGRAM



TEST CIRCUIT



Test Circuit



COMPLEX SOUND GENERATOR

SN94281
276-1767

GENERAL DESCRIPTION

The SN94281 complex sound generator is a monolithic chip combining both analog (bipolar) and digital (I²L) circuitry. It includes a noise generator, a voltage-controlled oscillator (VCO), and a super-low-frequency oscillator (SLF) together with a noise filter, mixer, audio amplifier, and control circuitry to provide noise, tone, or low-frequency sounds and any combinations of these. Programming is accomplished via control inputs and user-defined external components, which allows a wide variety of sound to be created and tailored for particular applications. This device may be used in a variety of applications requiring audio feedback to the operator including entertainment equipment such as arcade or home video games, pinball games, toys; consumer-oriented equipment such as timers, alarms, and controls.

FEATURES

- Generates noise, tone, or low frequency based sounds, or combinations of these
- Sounds are defined by user via external components
- Allows custom sounds to be created easily
- Low power requirements
- Allows multiple sound system
- Compatible with microprocessor systems
- On board 125 mW audio amplifier

APPLICATIONS

- Home video games
- Pinball games
- Timers
- Alarms
- Toys

ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V _{CC}	12 V
Input Voltage: Logic Input	12 V
Capacitor Input	5 V
Resistor Input	5 V
Operating Ambient Temperature Range	0 to +70°C
Storage Temperature Range	-65 to +150°C

OPERATION

Super Low Frequency Oscillator (SLF)

The SLF is normally operated in the range of 0.1 to 30 hertz, but will operate up to 20 kHz. The frequency is determined by two external components, the SLF control resistor (R_{SLF}) at pin 11 at ground and the SLF control capacitor (C_{SLF}) at pin 12 at ground according to the following equation:

$$\text{Equation 1: SLF Frequency (Hz)} \approx 0.66(9K\Omega + R_{SLF}) \times C_{SLF} \text{ at } V_{REG} = 5V$$

The SLF supplies two signals to other parts of the device. It feeds a 50% duty cycle square wave to the mixer, and it feeds a triangular wave to the external VCO of SLF select logic, where, if VCO select (pin 13) is at a low logic level, it is fed through to the VCO to modulate the frequency of that oscillator.

Voltage Controlled Oscillator (VCO)

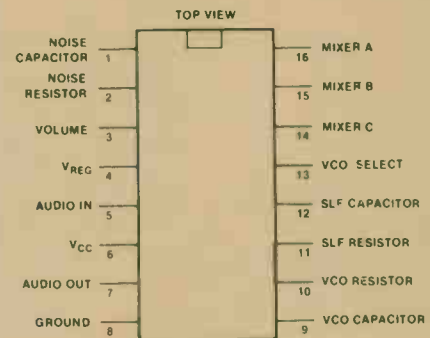
The VCO produces a tone output whose frequency is dependent upon the voltage at the input of the VCO. This controlling voltage may be either the SLF output described above, an internal voltage producing a constant tone, or externally by placing a voltage on the SLF capacitor pin. The higher the voltage applied to the VCO, the lower the frequency of the VCO output.

The first mode, VCO controlled by SLF is selected by placing the VCO select pin low and supplying both the VCO capacitor (C_{VCO}) at pin 9 at ground and the VCO resistor (R_{VCO}), at pin 10 at ground. Minimum frequency of the VCO is determined by the following equation:

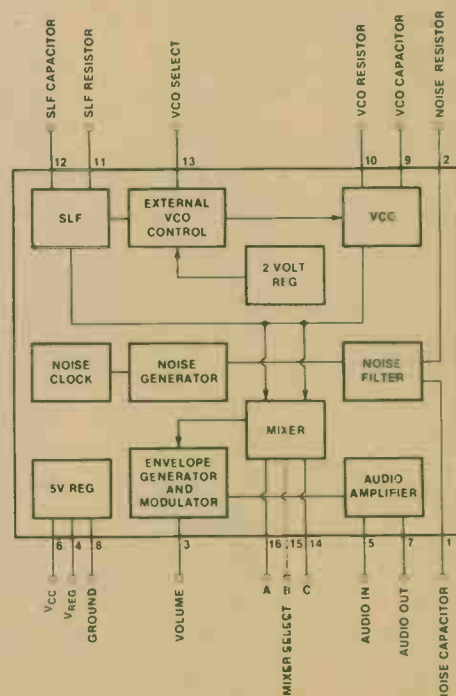
$$\text{Equation 2: Minimum VCO Frequency (Hz)} \approx 0.60(9K\Omega + R_{VCO}) \times C_{VCO}$$

The frequency range of the VCO is internally determined at an approximate ratio of 10:1, so that maximum frequency of the VCO will be approximately ten

PIN CONNECTION



BLOCK DIAGRAM



SN94281 276-1767

OPERATION (Cont'd)

times the minimum frequency determined by the external components R_{VCO} and C_{VCO} .

The second method of supplying a control voltage for the VCO is to use an internal voltage preset at 1 volt. This mode is selected by taking VCO select to a high level. In this mode, the VCO puts out a constant tone determined by C_{VCO} and R_{VCO} in this relationship:

$$\text{Equation 3: } f_{VCO} \cong 1.45(R_{VCO} + 9K\Omega) \times C_{VCO} \times 0.9V \text{ Hz}$$

A third method of controlling the voltage to the VCO is to apply the controlling voltage (V_{EXT}) to the SLF capacitor pin. This voltage level (0 to 2.30 volts) will determine the output frequency of the VCO. Output frequency in this mode is determined by this relationship:

$$\text{Equation 4: } f_{VCO} \cong 1.45(R_{VCO} + 9K\Omega) \times C_{VCO} \times (V_{EXT} - 0.1V) \text{ Hz}$$

Mixer

To obtain two sounds occurring simultaneously (e.g., car engine and siren or steam engine and whistle), multiplexing is required. The multiplexing is accomplished by switching the mixer select lines at a sufficiently rapid rate that the two sounds seem to occur at the same time. The frequency of the multiplexing should be above the human hearing range. A multiplexing drive signal with a 50% duty cycle is required to provide equal amplitudes for both sound functions.

Volume

Output volume from the 94281 can be controlled by varying a voltage level on pin 3. This voltage level should range from 3.5 volts, for maximum volume, to 0.4 volts or below for no output. Under no circumstances should this pin be taken above 5 volts or below 0 volts. Voltages outside of this range could damage the unit.

Noise Generator/Filter

The noise generator produces pseudo-random white noise that passes through the noise filter before being applied to the mixer. The variable-bandwidth low-pass filter has its cutoff point defined by the noise filter control resistor (R_{NF}) at pin 2 and the noise filter control capacitor (C_{NF}) at pin 1 according to the following equation:

$$\text{Equation 5: } f_{CUTOFF} \text{ (Hz)} \cong 0.43(9K\Omega + R_{NF}) \times C_{NF}$$

Output Amplifier

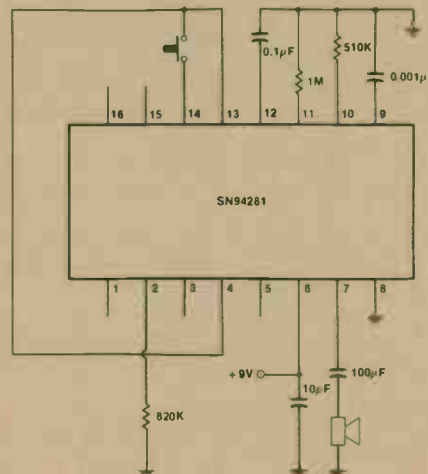
The output amplifier is contained entirely on chip. The amplifier operates in a transimpedance mode and has a push-pull output capable of delivering 125 mA into a capacitively coupled 8 ohm load. This produces a two volt peak-to-peak output signal. The amplifier input (pin 5) can be used to sum several external current signals. If the signals are composed of a varying voltage they must first be converted to current signals. This can be accomplished by using a resistor in series between the external source and the input (pin 5). The relationship of this resistor value (R_{SERIES}) to the external signal voltage (V_{MAX}) is given by the following equation:

$$-100 \mu A < V_{MAX} / R_{SERIES} < 100 \mu A$$

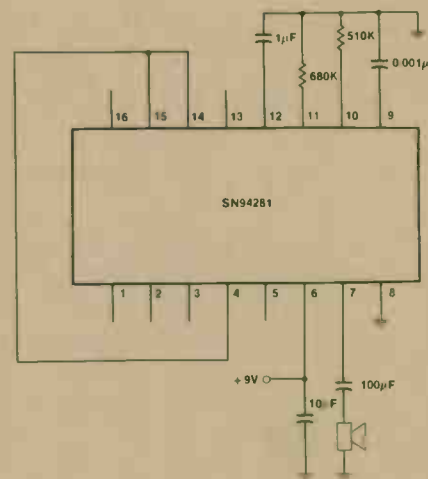
Gain of the amplifier can be controlled by adding a resistor in parallel to the internal 10 K Ω feedback resistor. This will decrease gain and allow a larger input current.

Regulator

The circuit will operate from a single supply (pin 6). An internal 5 volt regulator allows the use of a 7.5 volt to 10.5 volt unregulated supply applied to V_{CC} (pin 6) and in addition to supplying power for the chip, the internal regulator will provide a 5 volt regulated supply of up to 5 mA from V_{REG} (pin 4) for use outside the integrated circuit.



Train with Whistle



Bird Sound



5.8W AUDIO POWER AMPLIFIER

TA7205AP
276-705

GENERAL DESCRIPTION

The TA7205AP is a monolithic audio power amplifier with a built in thermal shut-down circuit designed for car radio and stereo applications.

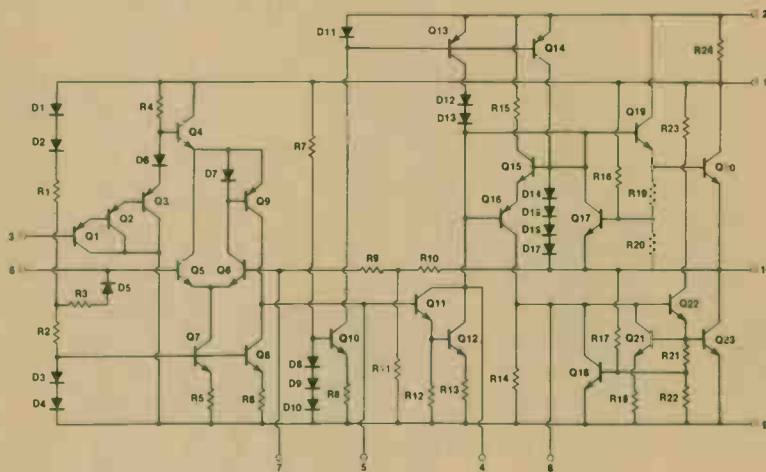
FEATURES

- Low distortion
 THD=0.15% (Typ.) (@ $P_{OUT}=1W$, $G_V=55dB$)
 THD=0.07% (Typ.) (@ $P_{OUT}=1W$, $G_V=44dB$)
- Operating supply voltage range: $V_{CC}=9\sim 18V$
- 'PCT' process to insure low noise characteristic
- Current limiting for short-circuit protection
- Built in thermal shut-down circuit
- Built in surge voltage protection circuit

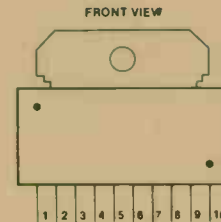
ABSOLUTE MAXIMUM RATINGS

Operating Supply Voltage (V_{CC})	18V
Quiescent Supply Voltage (V_{CCQ})	25V
Output Peak Current (I_O)	4.5A
Quiescent Current (I_{CCQ})	80mA
Operating Temperature	-20 to +75°C
Storage Temperature	-55 to +150°C

INTERNAL CIRCUIT

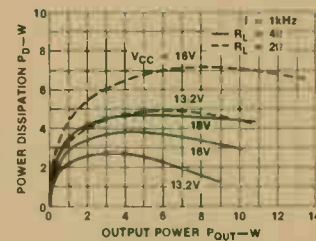


PIN CONNECTION

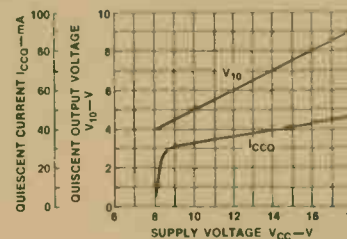


PIN	FUNCTION
1	V+
2	BOOTSTRAP
3	DECOUPLING
4	PHASE COMPENSATION
5	PHASE COMPENSATION
6	INPUT
7	NEGATIVE FEEDBACK
8	PHASE COMPENSATION
9	GROUND
10	OUTPUT

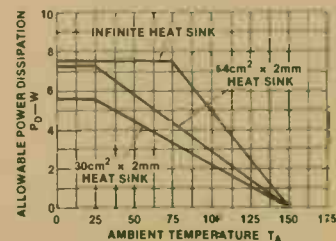
TYPICAL CHARACTERISTICS



Power Dissipation vs Output Power

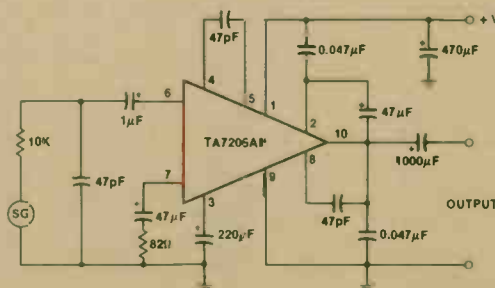


Quiescent Current and Output Voltage vs Supply Voltage



Allowable Power Dissipation vs Ambient Temperature

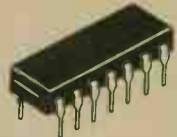
TYPICAL APPLICATION



5 Watt Audio Amplifier

380
276-706

AUDIO POWER AMPLIFIER



GENERAL DESCRIPTION

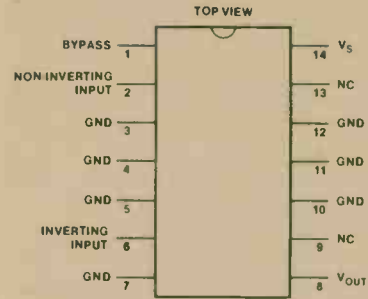
The 380 is a power audio amplifier for consumer application. In order to hold system cost to a minimum, gain is internally fixed at 34 dB. A unique input stage allows inputs to be ground referenced. The output is automatically self centering to one half the supply voltage.

The output is short circuit proof with internal thermal limiting. The package outline is standard dual-in-line. A copper lead frame is used with the center three pins on either side comprising a heat sink. This makes the device easy to use in standard p-c layout.

FEATURES

- Wide supply voltage range
- Low quiescent power drain
- High peak current capability
- Input referenced to GND
- High input impedance
- Low distortion
- Quiescent output voltage is at one-half of the supply voltage

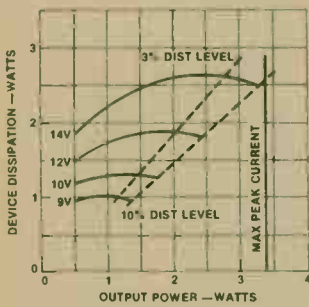
PIN CONNECTION



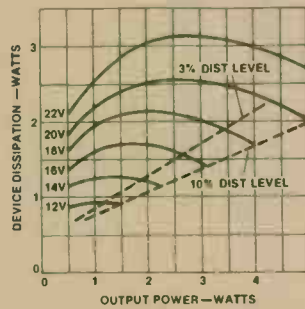
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	.....	22 V
Peak Current	.....	1.3 A
Package Dissipation 14-Pin DIP	.....	10 W
Input Voltage	.....	±0.5 V
Storage Temperature	.....	- 65 to + 150°C
Operating Temperature	.....	0 to + 70°C
Junction Temperature	.....	+ 150°C
Lead Temperature (Soldering, 10 sec)	.....	+ 300°

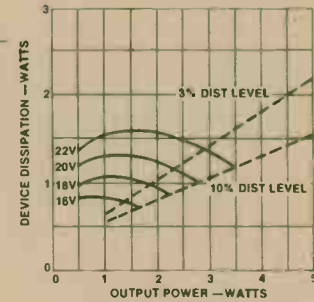
TYPICAL CHARACTERISTICS



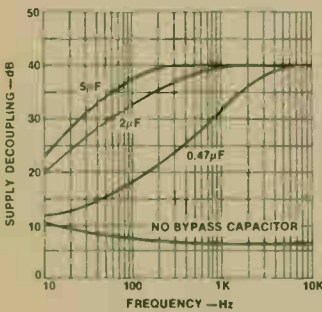
Device Dissipation vs Output Power — 4Ω Load



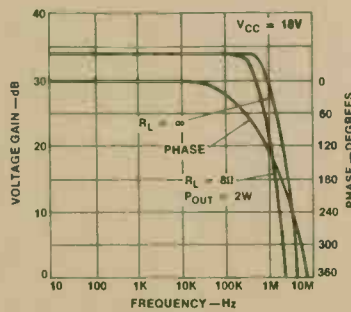
Device Dissipation vs Output Power — 8Ω Load



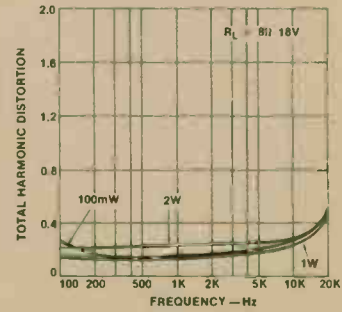
Device Dissipation vs Output Power — 16Ω Load



Supply Decoupling vs Frequency

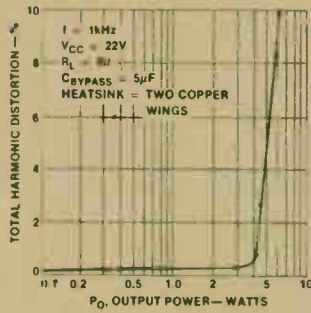


Output Voltage Gain and Phase vs Frequency

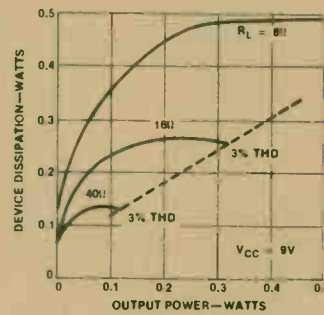


Total Harmonic Distortion vs Frequency

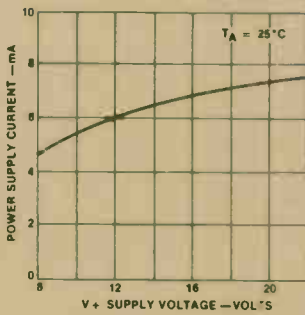
TYPICAL CHARACTERISTICS (Cont'd)



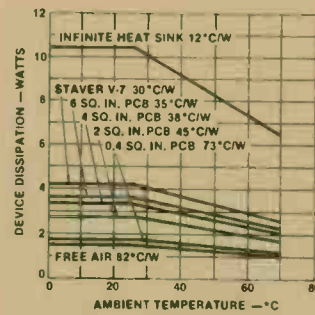
Total Harmonic Distortion vs Output Power



Device Dissipation vs Output Power

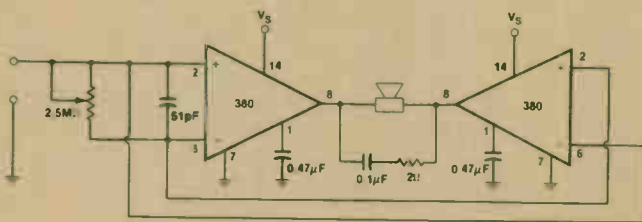


Power Supply Current vs Supply Voltage

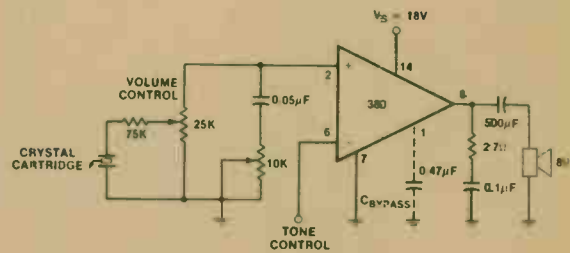


Device Dissipation vs Ambient Temperature

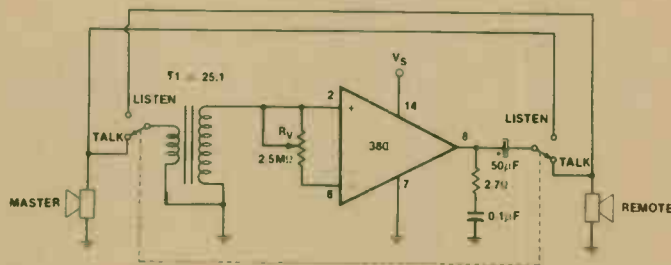
TYPICAL APPLICATIONS



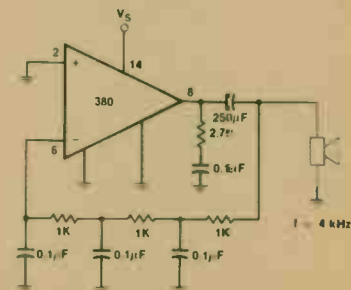
Bridge Amplifier



Phono Amplifier



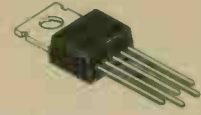
Intercom



Phase Shift Oscillator

383
276-703

8 WATT AUDIO POWER AMPLIFIER



GENERAL DESCRIPTION

The 383 is a cost effective, high power amplifier suited for automotive applications. High current capability (3.5A) enables the device to drive low impedance loads with low distortion. The 383 is current limited and thermally protected. The 383 comes in a 5-pin TO-220 package.

FEATURES

- High peak current capability (3.5A)
- Large output voltage swing
- Externally programmable gain
- Wide supply voltage range (5V–20V)
- Few external parts required
- Pin for pin compatible with TDA2002
- Low distortion
- High input impedance
- No turn-on transients
- Low noise
- Short circuit protected

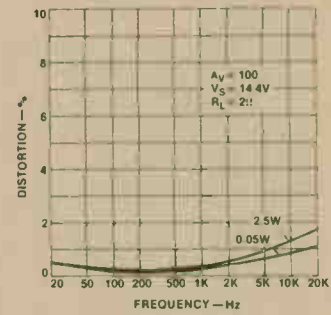
ABSOLUTE MAXIMUM RATINGS

Peak Supply Voltage (50 ms).....	25V
Operating Supply Voltage.....	20V
Output Current	
Repetitive.....	3.5A
Non-repetitive.....	4.5A
Input Voltage.....	±0.5V
Power Dissipation.....	15W
Operating Temperature.....	0 to +70°C
Storage Temperature.....	-60 to +150°C
Lead Temperature (Soldering, 10 seconds).....	300°C

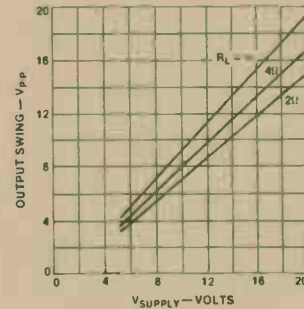
PIN CONNECTION



TYPICAL CHARACTERISTICS

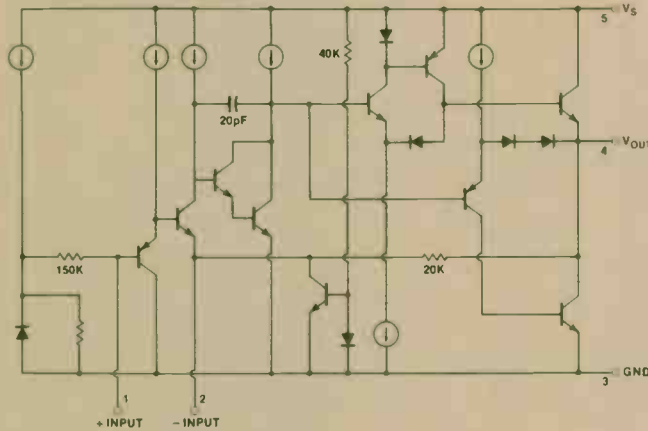


Distortion vs Frequency

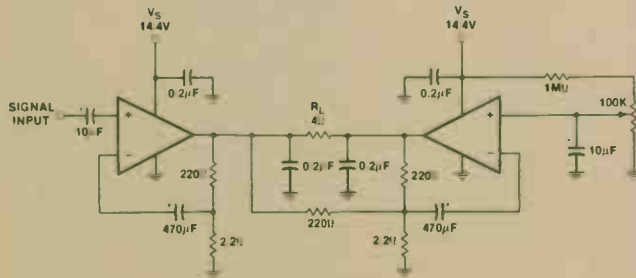


Output Swing vs Supply Voltage

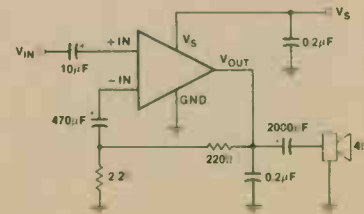
INTERNAL CIRCUIT



TYPICAL APPLICATIONS



16W Bridge Amplifier



Basic Audio Amp



LOW VOLTAGE AUDIO POWER AMPLIFIER

386
276-1731

GENERAL DESCRIPTION

The 386 is a power amplifier designed for use in low voltage consumer applications. The gain is internally set to 20 to keep external part count low, but the addition of an external resistor and capacitor between pins 1 and 8 will increase the gain to any value up to 200.

The inputs are ground referenced while the output is automatically biased to one half the supply voltage. The quiescent power drain is only 18 milli-watts when operating from a 6 volt supply, making the 386 ideal for battery operation.

FEATURES

- Battery operation
- Minimum external parts
- Wide supply voltage range 4-12 volts
- Low quiescent current drain 3 mA
- Voltage gains from 20 to 200
- Ground referenced input
- Self-centering output quiescent voltage
- Low distortion
- Eight pin dual-in-line package

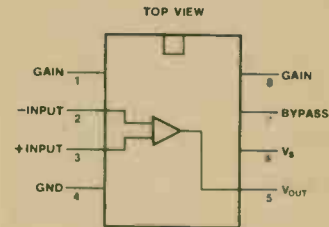
APPLICATIONS

- AM-FM radio amplifiers
- Portable tape player amplifiers
- Intercoms
- TV sound systems
- Line drivers
- Ultrasonic drivers
- Small servo drivers
- Power converters

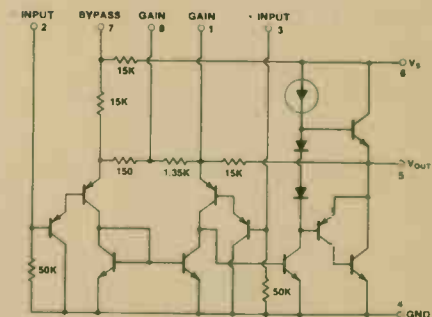
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	15V
Package Dissipation 8 Pin DIP	660 mW
Input Voltage	±0.4V
Junction Temperature	+150°C
Operating Temperature	0 to +70°C
Storage Temperature	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	+300°C

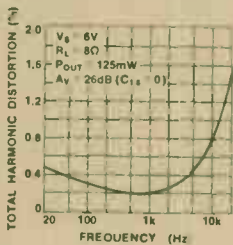
PIN CONNECTION



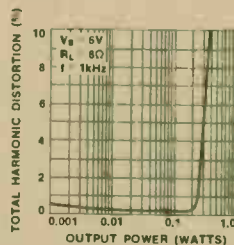
INTERNAL CIRCUIT



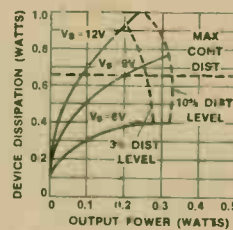
TYPICAL CHARACTERISTICS



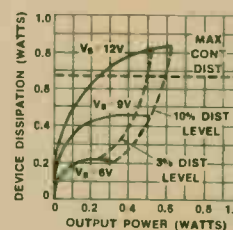
Distortion vs Frequency



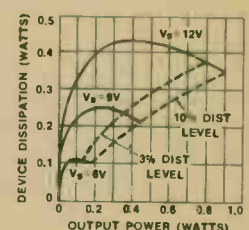
Distortion vs Output Power



Device Dissipation vs Output Power—4Ω Load

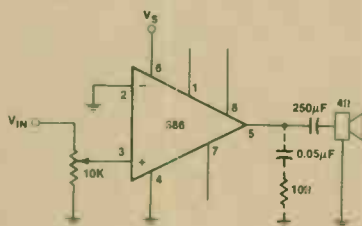


Device Dissipation vs Output Power—8Ω Load

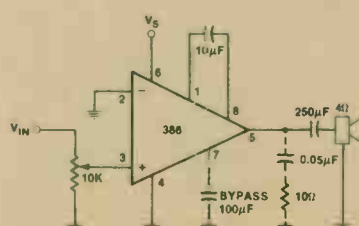


Device Dissipation vs Output Power—16Ω Load

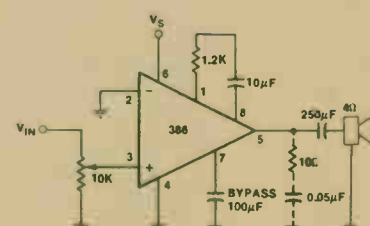
TYPICAL APPLICATIONS



Amplifier with Gain = 20
(Minimum Parts)



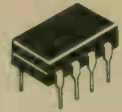
Amplifier with Gain = 50



Amplifier with Gain = 200

387
276-1737

LOW NOISE DUAL PREAMPLIFIER



GENERAL DESCRIPTION

The 387 is a dual preamplifier for the amplification of low level signals in applications requiring optimum noise performance. Each of the two amplifiers is completely independent, with an internal power supply decoupler-regulator, providing 110 dB supply rejection and 60 dB channel separation. Other outstanding features include high gain (104 dB), large output voltage swing ($V_{CC} - 2$ V) p.p., and wide power band width (75 kHz, 20 V_{p.p.}). The 387 operates from a single supply across the wide range of 9 to 30 V.

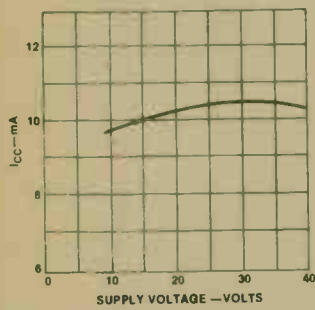
FEATURES

- Low noise — 0.8 μ V total input noise
- High gain — 104 dB open loop
- Wide supply range — 9 to 30 V
- Power supply rejection — 110 dB
- Large output voltage swing ($V_{CC} - 2$ V) p.p.
- Wide band width 15 MHz unity gain
- Power band width 75 kHz, 20 V_{p.p.}
- Internally compensated
- Short circuit protected

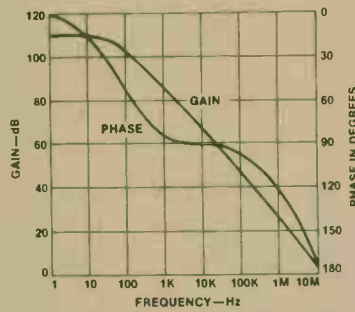
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	.....	+ 30 V
Operating Temperature Range	.....	0 to + 70°C
Storage Temperature Range	.....	- 65 to + 150°C
Lead Temperature (Soldering, 10 seconds)	.....	300°C

TYPICAL CHARACTERISTICS

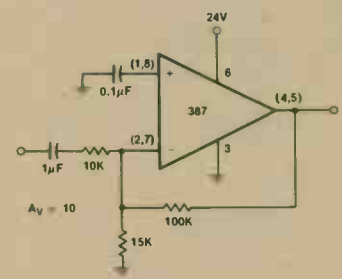
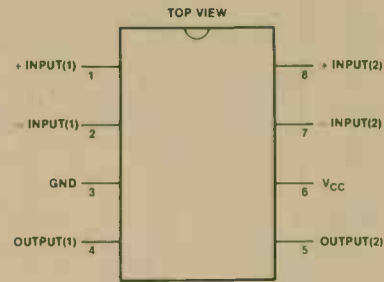


Supply Current vs Supply Voltage



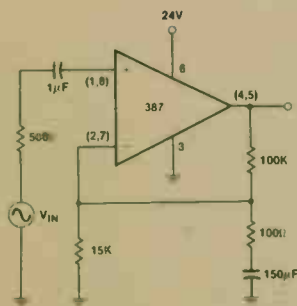
Gain and Phase Response vs Frequency

PIN CONNECTION

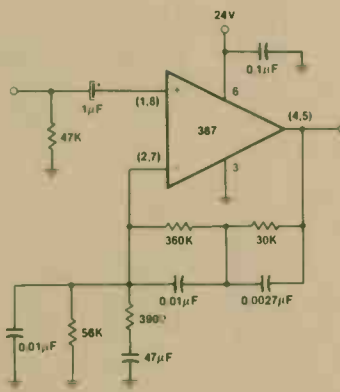


Ultra-Low Distortion Inverting Amplifier

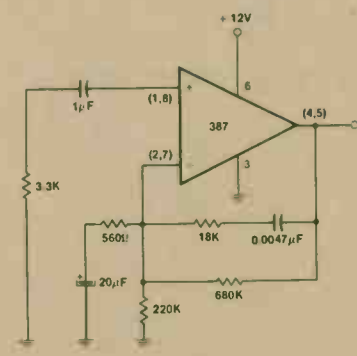
TYPICAL APPLICATIONS



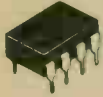
Flat Gain Circuit ($A_V = 1000$)



Magnetic Phono Preamplifier



NAB Tape Circuit



LOW-LEVEL VIDEO DETECTOR

MC1330
276-1757

GENERAL DESCRIPTION

This is an integrated circuit featuring very linear video characteristics and wide bandwidth. Designed for color and monochrome television receivers, replacing the third IF, detector, video buffer and AFC buffer.

The MC1330A video detector is a fully balanced multiplier detector circuit that has linear amplitude and phase characteristics. The signal is divided into two channels, one a linear amplifier and the other a limiting amplifier that provides the switching carrier for the detector.

The switching carrier has a buffered output for use in providing the AFT function.

The video amplifier output is an improved design that reduces the differential gain and phase distortion associated with previous video output systems. The output is wide band, > 8.0 MHz, with normal negative polarity. A separate narrow bandwidth, positive video output is also provided.

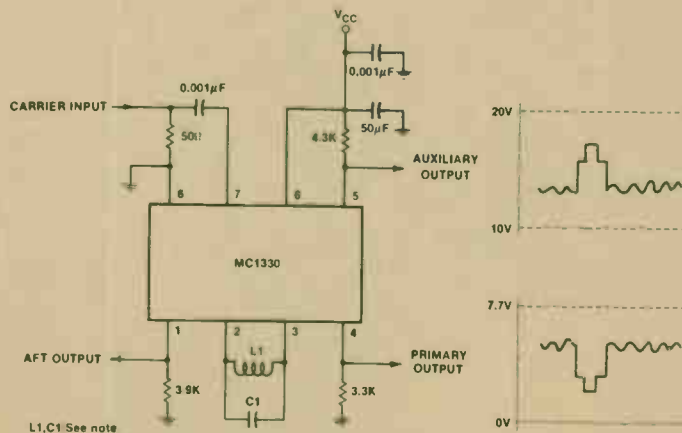
FEATURES

- Conversion gain—33 dB typical
- Excellent differential phase and gain
- High rejection of IF carrier feedthrough
- High video output—8.0 V p-p
- Fully balanced detector
- Output temperature compensated

ABSOLUTE MAXIMUM RATINGS

Power Supply Voltage	24 Vdc
DC Video Output Current	5mA _{dc}
DC AFT Output Current	2mA _{dc}
Zero Signal dc Output Voltage ($V_{cc}=+20$ Vdc, $Q=40$, $f_c=45.75$ MHz)	
MC1330A1P	8.2 Vdc
MC1330A2P	9.0 Vdc
Supply Current	20mA
Maximum Signal dc Output Voltage (Pin 4)	0.5 Vdc
Conversion Gain for 1Vp-p Output (30% Modulation)	65mV _{rms}
AFT Buffer Output at Carrier Frequency	650mVp-p
Junction Temperature	150°C
Operating Temperature Range (Ambient)	0 to +75°C
Storage Temperature Range	-65 to +150°C

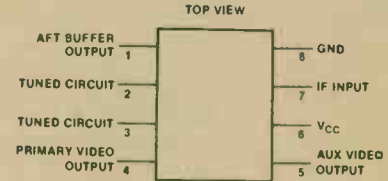
TYPICAL APPLICATIONS



NOTE: The choice of Q for the tuned circuit of pins 2 and 3 is not critical. The higher the Q, the better the rejection of 920 kHz products but the more critical the tuning accuracy required. See Figure 3. Values of Q from 20 to 50 recommended (Note the internal resistance).

Test Fixture Circuit

PIN CONNECTION



TYPICAL CHARACTERISTICS

($V_{cc} = +20$ Vdc)

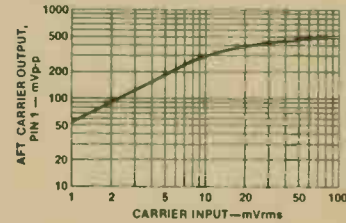


Figure 1

AFT Carrier Output vs Carrier Input

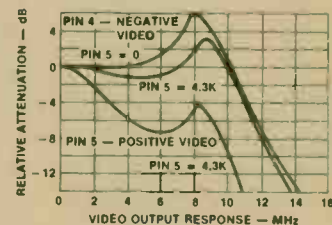


Figure 2

Relative Attenuation vs Video Output Response

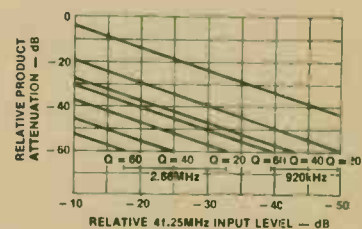


Figure 3

Relative Product Attenuation vs Relative 41.25 MHz Input Level

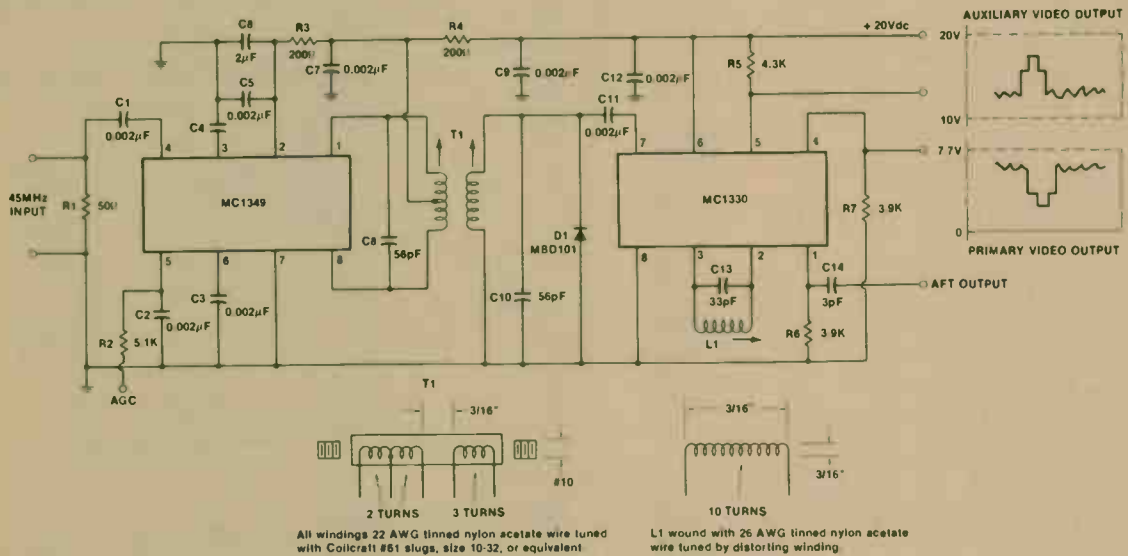
MC1330 276-1757

TYPICAL APPLICATIONS (Cont'd)

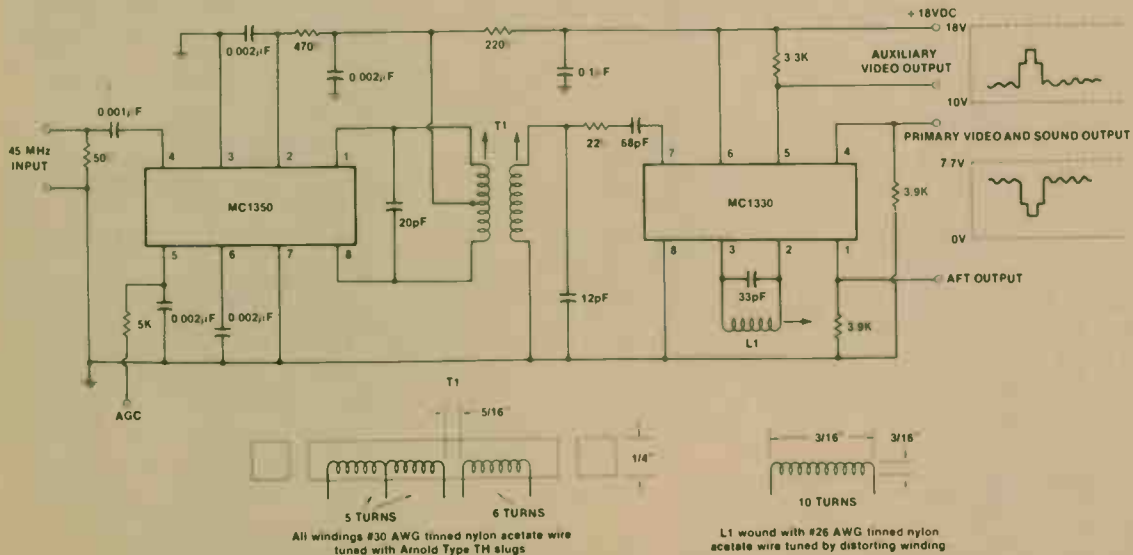
Alignment is most easily accomplished with an AM generator, set at a carrier frequency of 45.75 MHz, modulated with a video frequency sweep. This provides the proper realistic conditions necessary to operate to low-level detector (LLD). The detector tank is first adjusted for maximum detected dc (with a CW input), next, the video sweep modulation is applied and the interstage and input circuits are aligned, step by step, as in a standard IF amplifier.

Note: A normal IF sweep generator, essentially an FM generator, will not serve properly without modification. The LLD tank attempts to "follow" the sweep input frequency, and results in variations of switching amplitude in the detector. Hence, the apparent overall response becomes modified by the response of the LLD tank, which a real signal doesn't do.

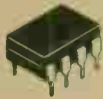
This effect can be prevented by resistively adding a 45.75 MHz CW signal to the output of the sweep generator approximately 3 dB greater than the sweep amplitude.



Video IF Amplifier and Low-Level Detector



Typical MC1350 Video IF Amplifier and MC1330 Low-Level Video Detector Circuit



IF AMPLIFIER

MC1350
276-1758

GENERAL DESCRIPTION

This monolithic IF amplifier is an integrated circuit featuring wide range AGC for use as an IF amplifier in radio and TV.

The input amplifiers (Q1 and Q2) operate at constant emitter currents so that input impedance remains independent of AGC action. Input signals may be applied single-ended or differentially (for ac) with identical results. Terminals 4 and 6 may be driven from a transformer, but a dc path from either terminal to ground is not permitted.

AGC action occurs as a result of an increasing voltage on the base of Q4 and Q5 causing these transistors to conduct more heavily thereby shunting signal current from the interstage amplifiers Q3 and Q6. The output amplifiers are supplied from an active current source to maintain constant quiescent bias thereby holding output admittance nearly constant. Collector voltage for the output amplifier must be supplied through a center-tapped tuning coil to Pins 1 and 8. The 12-volt supply (V+) at Pin 2 may be used for this purpose, but output admittance remains more nearly constant if a separate 15-volt supply (V++) is used, because the base voltage on the output amplifier varies with AGC bias.

FEATURES

- Power gain — 50 dB typ at 45 MHz
— 48 dB typ at 58 MHz
- AGC range — 60 dB min. dc to 45 MHz
- Nearly constant input and output admittance over the entire AGC range
- y_{21} constant (-3.0 dB) to 90 MHz
- Low reverse transfer admittance — $\ll 1.0 \mu\text{mhos}$ typ
- 12-volt operation, single-polarity-power supply

ABSOLUTE MAXIMUM RATINGS

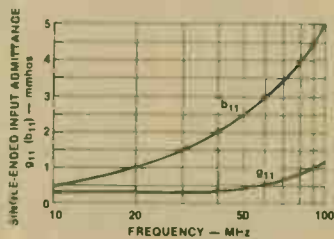
Power Supply Voltage	18Vdc
Power Dissipation	625mW
Operating Temperature Range	0 to +75°C

ELECTRICAL CHARACTERISTICS

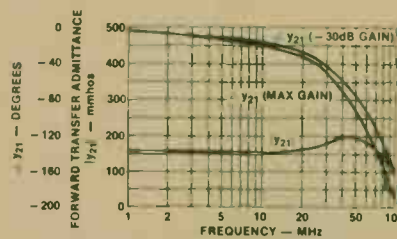
(V+ = +12 Vdc; TA = +25°C unless otherwise noted)

Power Gain (Pin 5 grounded via a 5.1k resistor)	
f = 58 MHz, BW = 4.5 MHz	48dB
f = 45 MHz, BW = 4.5 MHz	50dB
f = 10.7 MHz, BW = 350 kHz	58dB
f = 455 kHz, BW = 20 kHz	62dB
Power Dissipation	204mW

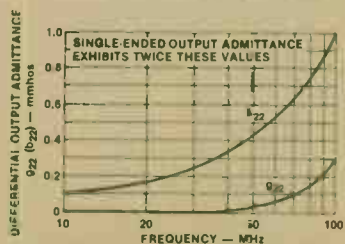
TYPICAL CHARACTERISTICS (V+ = 12V, TA = +25°C)



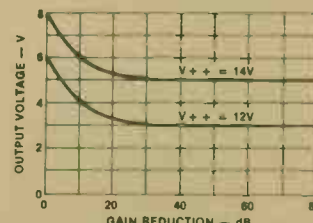
Input Admittance vs Frequency



Forward Transfer Admittance and Phase vs Frequency

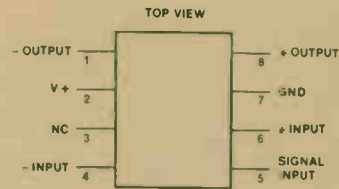


Differential Output Admittance vs Frequency

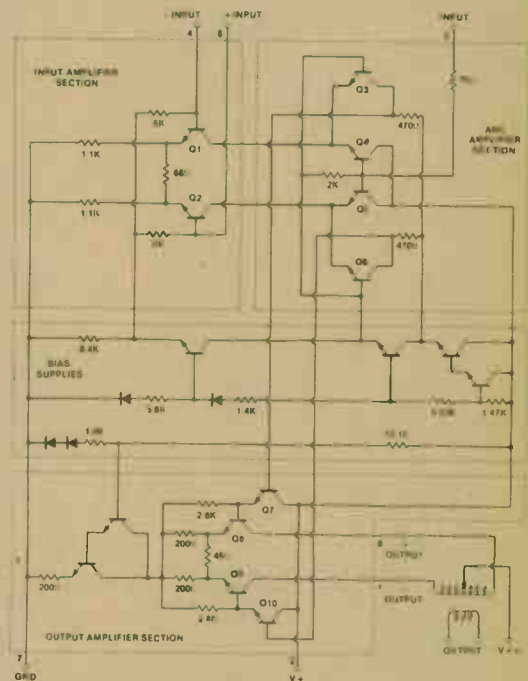


Differential Output Voltage vs Gain Reduction

PIN CONNECTION



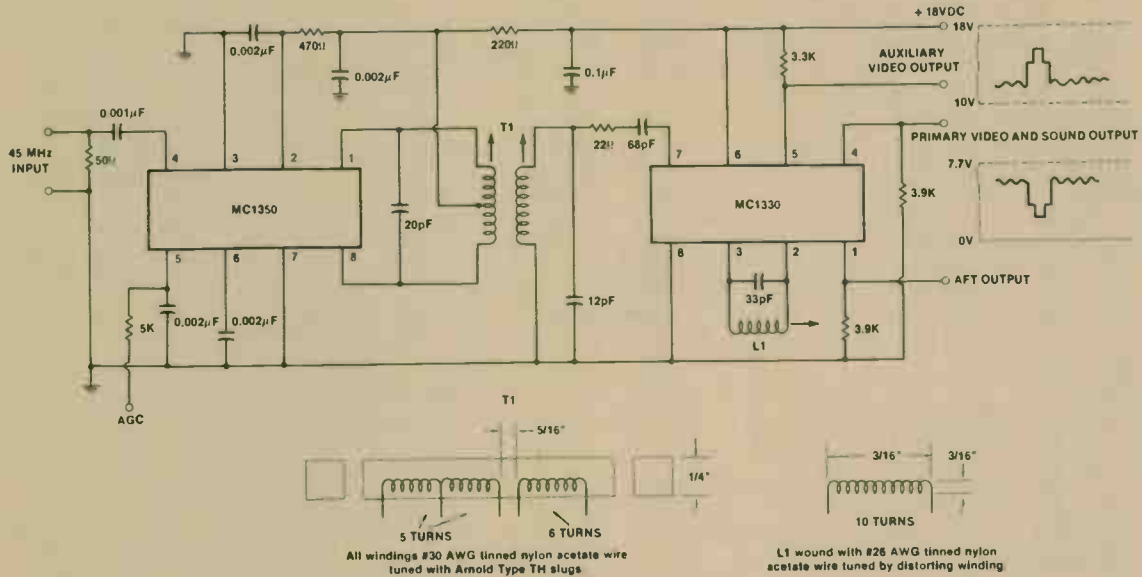
INTERNAL CIRCUIT



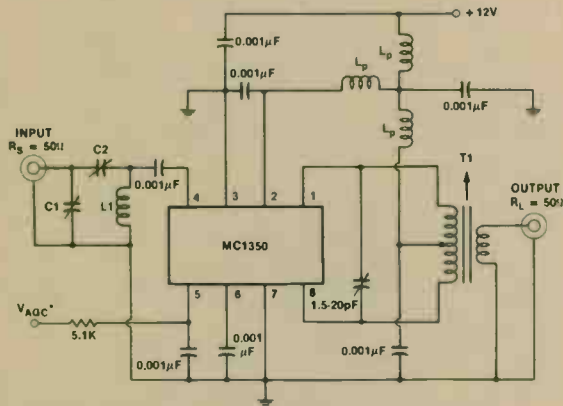
LINEAR (VIDEO)

MC1350 276-1758

TYPICAL APPLICATIONS



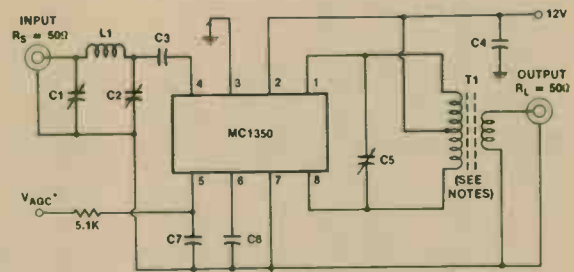
Typical MC1350 Video IF Amplifier and MC1330 Low-Level Video Detector Circuit



*Connect to ground for maximum power gain test.
 All power-supply chokes (L_p), are self-resonate at input frequency. $L_p \geq 20\mu\text{H}$
 $L1 @ 45\text{ MHz} = 7\frac{1}{2}$ turns on a $\frac{1}{4}$ " coil form.
 $@ 58\text{ MHz} = 6$ turns on a $\frac{1}{4}$ " coil form.
 $T1$ primary winding = 18 turns on a $\frac{1}{4}$ " coil form, center-tapped.
 secondary winding = 2 turns centered over primary winding @ 45MHz
 = 1 turn @ 58MHz
 Core = Arnold TH material $\frac{1}{2}$ " long.

	45MHz	58MHz
L1	0.4μH Q > 100	0.3μH Q > 100
T1	1.3-3.4μH Q > 100 @ 2μH	1.2-3.8μH Q > 100 @ 2μH
C1	50-160pF	8-60pF
C2	8-60pF	3-35pF

Power Gain, AGC, and Noise Figure Test Circuit (45 MHz and 58 MHz)

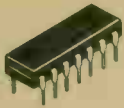


*Grounded for maximum power gain.

Note 1. Primary = 120μH, center-tapped.
 $O_p = 140$ at 455kHz.
 Primary : Secondary turns ratio = 13
 2. Primary = 6.0μH
 Primary winding = 24 turns #36 AWG, close wound on $\frac{1}{4}$ " diameter form.
 Secondary winding = 1 1/2 turns #36 AWG, $\frac{1}{4}$ " diameter, wound over center-tap.
 Core = Arnold type TH, or equivalent.

COMPONENT	FREQUENCY	
	455kHz	10.7MHz
C1	—	60-450pF
C2	—	5-80pF
C3	0.05μF	0.001μF
C4	0.05μF	0.05μF
C5	0.001μF	36pF
C6	0.05μF	0.05μF
C7	0.05μF	0.05μF
L1	—	4.6μH
T1	NOTE 1	NOTE 2

Power Gain and AGC Test Circuit (455 kHz and 10.7 MHz)



IF AMPLIFIER, LIMITER, FM DETECTOR AUDIO DRIVER, ELECTRONIC ATTENUATOR

MC1358
276-1759

GENERAL DESCRIPTION

This TV sound IF amplifier is a versatile monolithic device incorporating IF limiting, detection, electronic attenuation, audio amplifier, and audio driver capabilities.

FEATURES

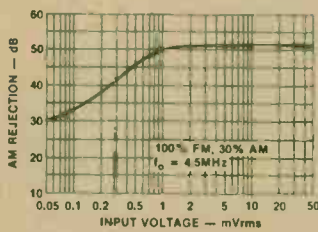
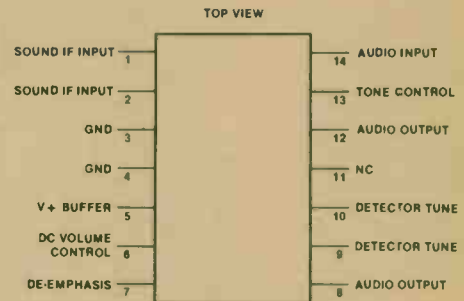
- Differential peak detector requiring a single tuned circuit
- Electronic attenuator replaces conventional ac volume control — Range > 60 dB
- Excellent AM rejection at 4.5 and 5.5 MHz
- High stability
- Low harmonic distortion
- Audio drive capability — 6.0 mA_{p-p}
- Minimum undesirable output signal @ maximum attenuation

ABSOLUTE MAXIMUM RATINGS

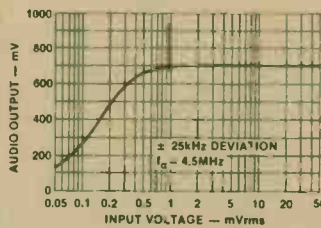
Input Signal Voltage (Pins 1 and 2)	±3.0Vdc
Power Supply Current	50mA
Power Dissipation	625mW
Operating Temperature Range (Ambient)	-20 to +75°C
Storage Temperature Range	-65 to +150°C

TYPICAL CHARACTERISTICS

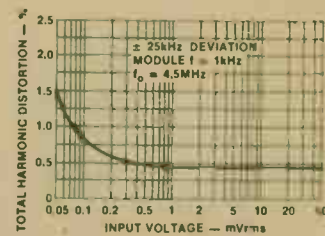
PIN CONNECTION



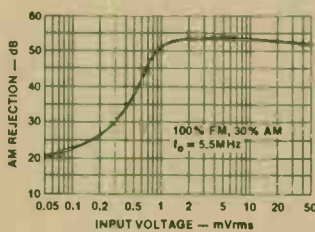
AM Rejection vs Input Voltage



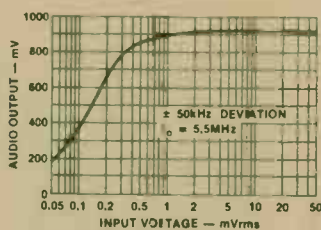
Audio Output vs Input Voltage



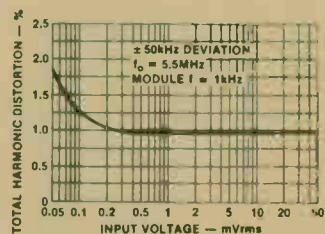
Total Harmonic Distortion vs Input Voltage



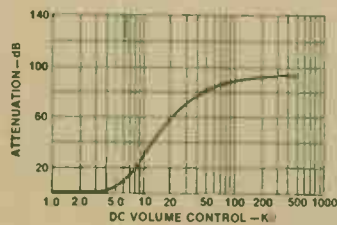
AM Rejection vs Input Voltage



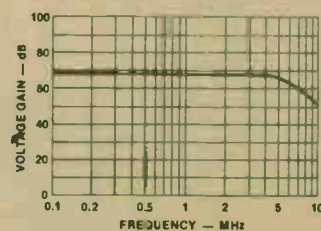
Audio Output vs Input Voltage



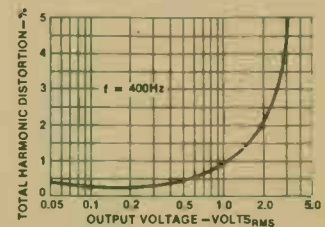
Total Harmonic Distortion vs Input Voltage



Attenuation vs DC Volume Control



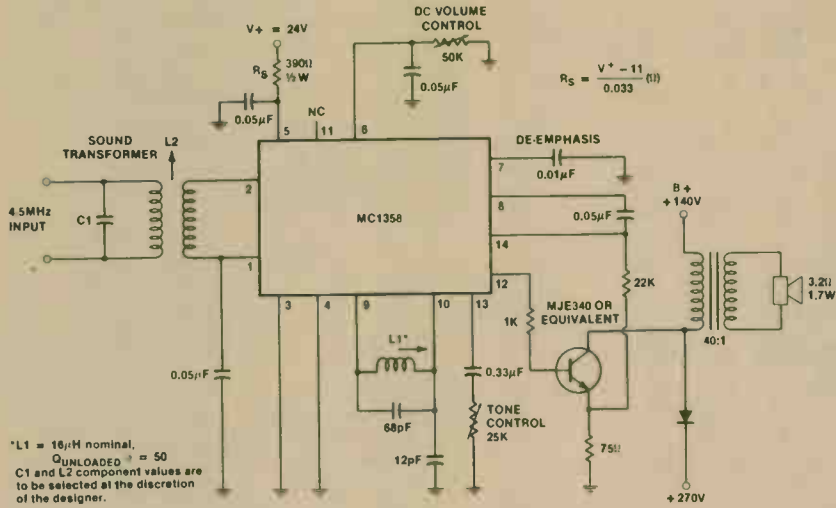
Voltage Gain vs IF Frequency



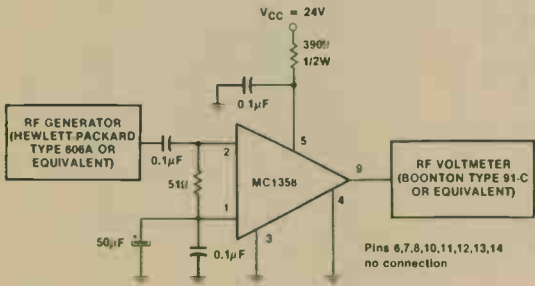
Total Harmonic Distortion vs Output Voltage

MC1358 276-1759

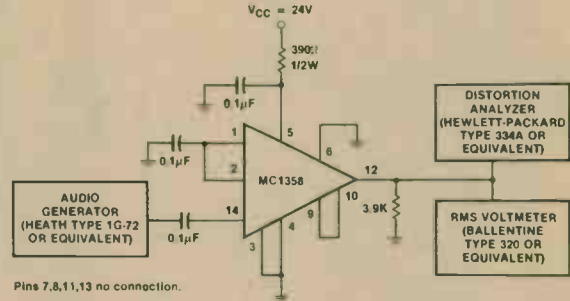
TYPICAL APPLICATIONS



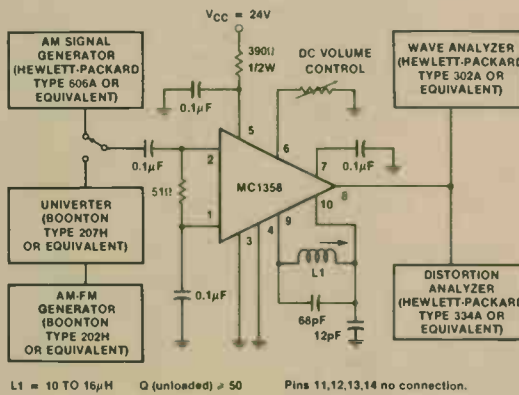
TV Application



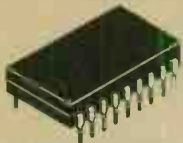
IF Frequency Response Test Circuit



Audio Voltage Gain,
Audio THD Test Circuit



AM Rejection, Detected Audio,
THD, Attenuation Test Circuit



DOT/BAR DISPLAY DRIVER

3916
276-1709

GENERAL DESCRIPTION

The 3916 is a monolithic integrated circuit that senses analog voltage levels and drives ten LEDs, LCDs or vacuum fluorescent displays, providing an electronic version of the popular VU meter. One pin changes the display from a bar graph to a moving dot display. LED current drive is regulated and programmable, eliminating the need for current limiting resistors. The whole display system can operate from a single supply as low as 3V or as high as 25V.

The IC contains an adjustable voltage reference and an accurate ten-step voltage divider. The high-impedance input buffer accepts signals down to ground and up to within 1.5V of the positive supply. Further, it needs no protection against inputs of $\pm 35V$. The input buffer drives 10 individual comparators referenced to the precision divider. Accuracy is typically better than 0.2 dB.

Audio applications include average or peak level indicators, and power meters. Replacing conventional meters with an LED bar graph results in a faster responding, more rugged display with high visibility that retains the ease of interpretation of an analog display.

The 3916 is extremely easy to apply. A 1.2V full-scale meter requires only one resistor in addition to the ten LEDs. One more resistor programs the full-scale anywhere from 1.2V to 12V independent of supply voltage. LED brightness is easily controlled with a single pot.

FEATURES

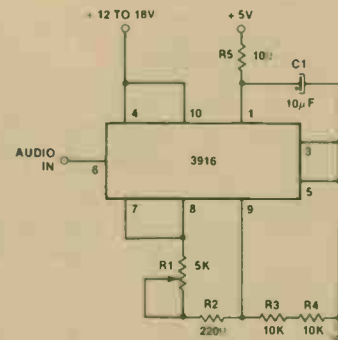
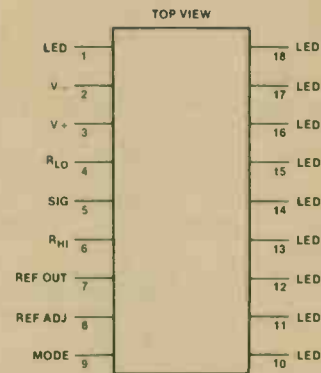
- Fast responding electronic VU meter
- Drives LEDs, LCDs, or vacuum fluorescents
- Bar or dot display mode externally selectable by user
- Expandable to displays of 70 dB
- Internal voltage reference from 1.2V to 12V
- Inputs operate down to ground
- Output current programmable from 1 mA to 30 mA
- Input withstands $\pm 35V$ without damage or false outputs
- Outputs are current regulated, open collectors
- Directly drives TTL or CMOS
- The internal 10-step divider is floating and can be referenced to a wide range of voltages

ABSOLUTE MAXIMUM RATINGS

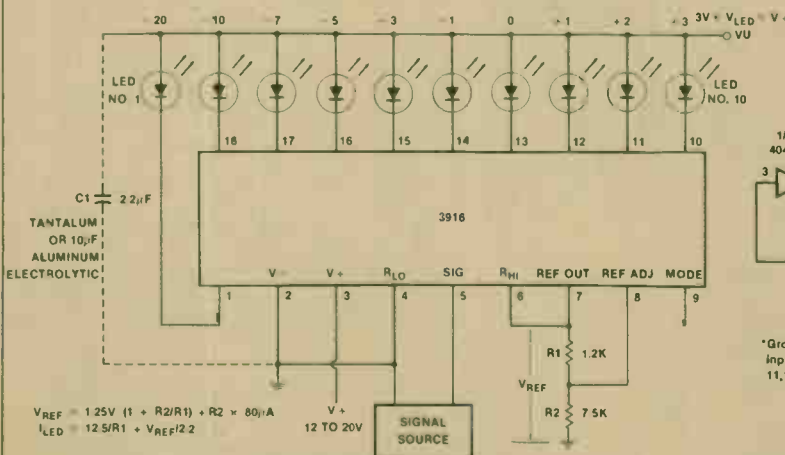
Supply Voltage 3 to 25 V
 Input Signal Over Voltage $\pm 35 V$
 Storage Temperature 0 to 70°C

TYPICAL APPLICATIONS

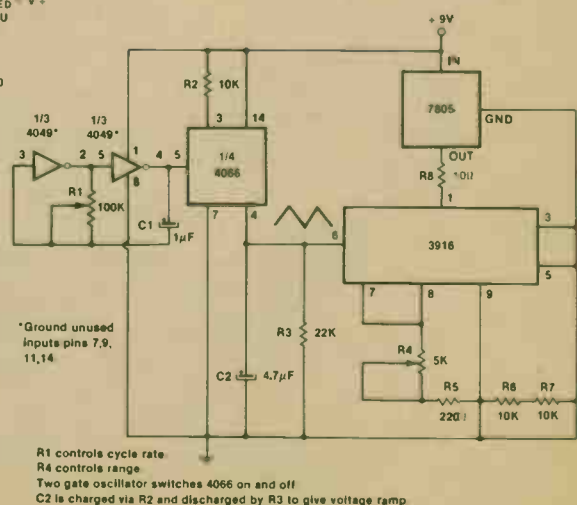
PIN CONNECTION



VU Bar Graph Display



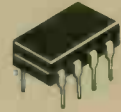
0V to 10V VU Meter



Back and Forth Flasher

ICL7660
276-2335

VOLTAGE CONVERTER



GENERAL DESCRIPTION

The ICL7660 is a power supply circuit which offers unique performance advantages over previously available devices. The ICL7660 performs the complete supply voltage conversion from positive to negative for an input range of +1.5 to +10.0V, resulting in complementary output voltages of -1.5 to -10.0V with the addition of only 2 non-critical external capacitors needed for the charge pump and charge reservoir functions. Note that an additional diode is required for $V_{SUPPLY} > 6.5V$.

Contained on chip are a series DC power supply regulator, RC oscillator, voltage level translator, four output power MOS switches, and a unique logic element which senses the most negative voltage in the device and ensures that the output N-channel switches are not forward biased. This assures latch-up free operation.

The oscillator, when unloaded, oscillates at a nominal frequency of 10 kHz for an input supply voltage of 5.0 volts. This frequency can be lowered by the addition of an external capacitor to the "OSC" terminal, or the oscillator may be overdriven by an external clock.

The "LV" terminal may be tied to GROUND to bypass the internal series regulator and improve low voltage (LV) operation. At medium to high voltages (+3.5 to +10.0 volts), the LV pin is left floating to prevent device latchup.

Typical applications for the ICL7660 will be data acquisition and microprocessor based systems where there is a +5 volt supply available for the digital functions and an additional -5 volt supply is required for the analog functions. The ICL7660 is also ideally suited for providing low current, -5V body bias supply for dynamic RAMs.

FEATURES

- Simple conversion of +5V logic supply to $\pm 5V$ supplies
- Simple voltage multiplication ($V_{OUT} = (-) nV_{IN}$)
- 99.9% typical open circuit voltage conversion efficiency
- 98% typical power efficiency
- Wide operating voltage range 1.5 to 10.0V
- Easy to use - requires only 2 external non-critical passive components

APPLICATIONS

- On board negative supply for up to 64 dynamic RAMs.
- Localized μ -processor (8080 type) negative supplies
- Inexpensive negative supplies
- Data acquisition systems

ABSOLUTE MAXIMUM RATINGS

Supply Voltage 10.5V
 Oscillator Input Voltage (Note 1) -0.3V to ($V^+ + 0.3V$) for $V^+ < 5.5V$
 ($V^+ - 5.5V$) to ($V^+ + 0.3V$) for $V^+ > 5.5V$
 -0.3V to ($V^+ + 0.3V$) for $V^+ < 3.5V$

LV (Note 1) No connection for $V^+ > 3.5V$

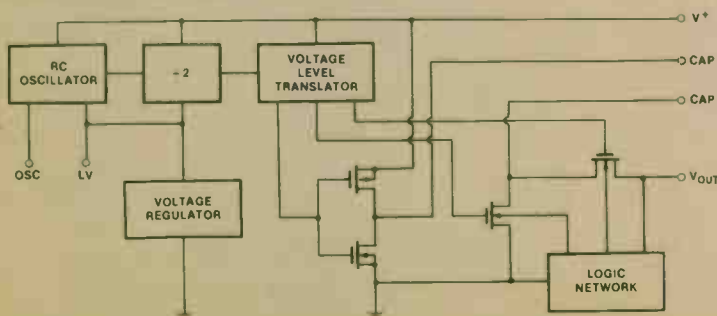
Output Short Duration ($V_{SUPPLY} \leq 5.5V$) Continuous

Power Dissipation (Note 2) ICL7660CPA 300mW

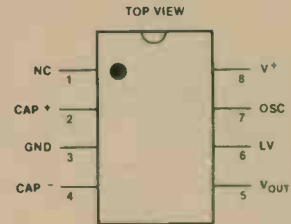
Notes: 1. Connecting any terminal to voltages greater than V^+ or less than GROUND may cause destructive latchup. It is recommended that no inputs from sources operating from external supplies be applied prior to "power up" of the ICL7660.

2. Derate linearly above 50°C by 5.5mW/°C.

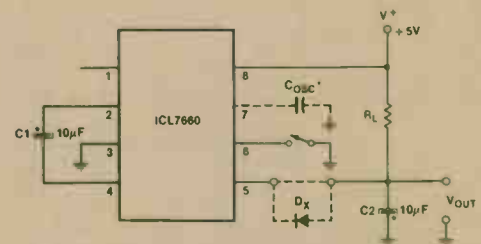
BLOCK DIAGRAM



PIN CONNECTION



TEST CIRCUIT



*Notes: 1. For large value of $C_{OSC} (> 100pF)$ the values of $C1$ and $C2$ should be increased to 100µF
 2. D_X is required for supply voltages greater than 6.5V @ $-55^\circ C < T_A < +70^\circ C$; refer to performance curves for additional information.

Test Circuit

THEORETICAL POWER EFFICIENCY CONSIDERATIONS

In theory a voltage multiplier can approach 100% efficiency if certain conditions are met:

- A. The drive circuitry consumes minimal power
- B. The output switches have extremely low ON resistance and virtually no offset.
- C. The impedances of the pump and reservoir capacitors must be negligible at the pump frequency.

The ICL7660 approaches these conditions for negative voltage multiplication if large values of C1 and C2 are used. ENERGY IS LOST ONLY IN THE TRANSFER OF CHARGE BETWEEN CAPACITORS IF A CHANGE IN VOLTAGE OCCURS. The energy lost is defined by:

$$E = 1/2 C1 (V_1^2 - V_2^2)$$

Where V_1 and V_2 are the voltages on C1 during the pump and transfer cycles. If the impedances of C1 and C2 are relatively high at the pump frequency (refer to Fig. 1) compared to the value of R_L , there will be a substantial difference in the voltages V_1 and V_2 . Therefore it is not only desirable to make C2 as large as possible to eliminate output voltage ripple, but also to employ a correspondingly large value for C1 in order to achieve maximum efficiency of operation.

DO'S AND DON'TS

- 1. Do not exceed maximum supply voltages.
- 2. Do not connect LV terminal to GROUND for supply voltages greater than 3.5 volts.
- 3. Do not short circuit the output to V^+ supply for supply voltages above 5.5 volts for extended periods, however, transient conditions including startup are okay.
- 4. When using polarized capacitors, the + terminal of C1 must be connected to pin 2 of the ICL7660 and the + terminal of C2 must be connected to GROUND.
- 5. Add diode D_X as shown in the test circuit for hi-voltage, elevated temperature applications.

CONSIDERATIONS FOR HI VOLTAGE & ELEVATED TEMPERATURE

The ICL7660 will operate efficiently over its specified temperature range with only 2 external passive components (charge & pump capacitors), provided the operating supply voltage does not exceed 6.5 volts at +70°C and 5.0 volts at +125°C. Exceeding these maximums at the temperatures indicated may result in destructive latch-up of the ICL7660. (Ref: Graph "Operating Voltage vs. Temperature")

Operation at supply voltages of up to 10.0 volts over the full temperature range without danger of latch-up can be achieved by adding a general purpose diode in series with the ICL7660 output, as shown by " D_X " in the circuit diagrams. The effect of this diode on overall circuit performance is the reduction of output voltage by one diode drop (approximately 0.6 volts).

TYPICAL APPLICATIONS

The majority of applications will undoubtedly utilize the ICL7660 for generation of negative supply voltages. Figure 2 shows typical connections to provide a negative supply where a positive supply is available. A similar scheme may be employed for supply voltages anywhere in the operating range of + 1.5V to + 10.0 volts, keeping in mind that pin 6 (LV) is tied to the supply negative (GND) only for supply voltages below 3.5 volts, and that diode D_X must be included for proper operation at higher voltages and/or elevated temperatures.

The output characteristics of the circuit in Figure 2 are those of a nearly ideal voltage source in series with 70 ohms. Thus for a load current of -10mA and a supply voltage of +5 volts, the output voltage will be -4.3 volts. The dynamic output impedance due to the capacitor impedances is $1/\omega C$ where

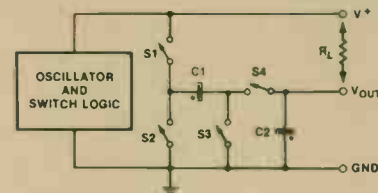
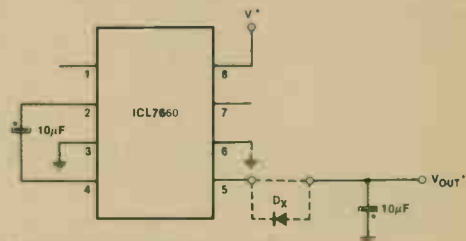


Figure 1—Idealized Voltage Doubler



Note: 1. $V_{OUT} = -nV^$ FOR $1.5V < V^* < 6.5V$
2. $V_{OUT} = -n(V^* - V_{FDX})$ FOR $6.5V < V^* < 10V$

Figure 2—Simple Negative Converter

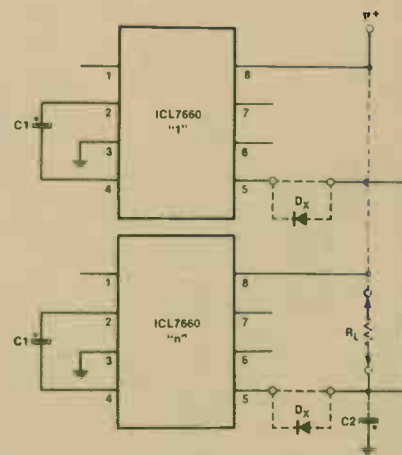
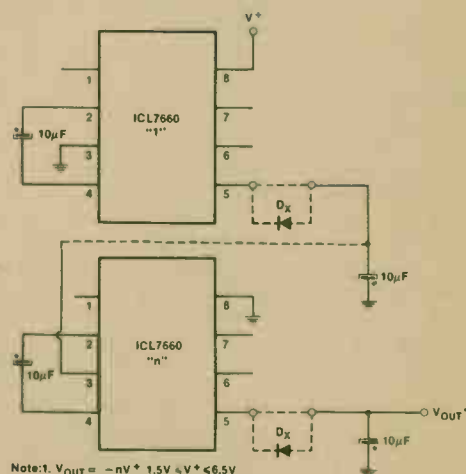


Figure 3—Paralleling Devices



Note: 1. $V_{OUT} = -nV^* + 1.5V$ FOR $1.5V < V^* < 6.5V$
2. $V_{OUT} = -n(V^* - V_{FDX})$ FOR $6.5V < V^* < 10.0V$

Figure 4—Cascading Devices for Increased Output Voltage

ICL7660 276-2335

TYPICAL APPLICATIONS (Cont'd)

$$C = C1 = C2$$

$$\text{giving } \frac{1}{\omega C} = \frac{1}{2\pi f_{OSC} \times 10^{-5}} = 3 \Omega$$

for $C = 10\mu F$ and $f_{OSC} = 5kHz$ (1/2 of oscillator frequency)

Any number of ICL7660 voltage converters may be paralleled (Fig. 3) to reduce output resistance. The reservoir capacitor, C2, serves all devices while each device requires its own pump capacitor, C1. The resultant output resistance would be approximately:

$$R_{OUT} = \frac{R_{OUT} \text{ (of ICL7660)}}{n \text{ (number of devices)}}$$

The ICL7660 may be cascaded as shown (Fig. 4) to produce larger negative multiplication of the initial supply voltage, however, due to the finite efficiency of each device, the practical limit is 10 devices for light loads. The output voltage is defined by:

$$V_{OUT} = -n (V_{IN}),$$

where n is an integer representing the number of devices cascaded. The resulting output resistance would be approximately the sum of the individual ICL7660 R_{OUTS} .

It may be desirable in some applications, due to noise or other considerations, to increase the oscillator frequency. This is achieved by overdriving the oscillator from an external clock, as shown in Figure 5. In order to prevent possible device latchup, a 1kΩ resistor must be used in series with the clock output. In the situation where the designer has generated the external clock frequency using TTL logic, the addition of a 10kΩ pullup resistor to V^+ supply is required. note that the pump frequency with external clocking, as with internal clocking, will be 1/2 of the clock frequency.

It is also possible to maximize the conversion efficiency of the ICL7660 by lowering the oscillator frequency. This is achieved by connecting an additional capacitor C_{OSC} as shown in Figure 6, however.

Lowering the oscillator frequency will necessitate an undesirable increase in the impedance of the pump (C1) and reservoir (C2) capacitors; this is overcome by increasing the values of C1 and C2 by the same factor that the frequency has been reduced. For example, the addition of a 100pF capacitor between pin 7 (Osc) and V^+ will lower the oscillator frequency to 1kHz from its nominal frequency of 10kHz (a multiple of 10), and thereby necessitate a corresponding increase in the value of C1 and C2 (from 10μF to 100μF).

The ICL7660 may be employed to achieve positive voltage multiplication using the circuit shown in Figure 7. In this application, the pump inverter switches of the ICL7660 are used to charge C1 to a voltage level of $V^+ - V_f$ (where V^+ is the supply voltage and V_f is the forward voltage drop of diode D1). On the transfer cycle, the voltage on C1 plus the supply voltage (V^+) is applied through diode D2 to capacitor C2. The voltage thus created on C2 becomes $(2V^+) - (2V_f)$ or twice the supply voltage minus the combined forward voltage drops of diodes D1 and D2.

The source impedance of the output (V_{OUT}) will depend on the output current, but for $V^+ = 5$ volts and an output current of 10mA it will be approximately 60 ohms.

Figure 8 combines the functions shown in Figures 2 and 7 to provide negative voltage conversion and positive voltage multiplication simultaneously. This approach would be, for example, suitable for generating +9 volts and -5 volts from an existing +5 volt supply. In this instance capacitors C1 and C3 perform the pump and reservoir functions respectively for the generation of the negative voltage, while capacitors C2 and C4 are pump and reservoir respectively for the multiplied positive voltage. There is a penalty in this configuration which combines both functions, however, in that the source impedances of the generated supplies will be somewhat higher due to the finite impedance of the common charge pump driver at pin 2 of the device.

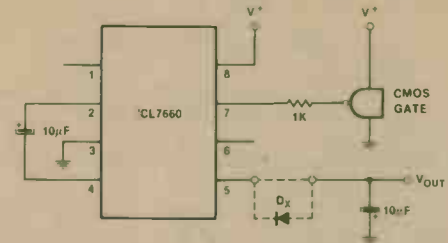


Figure 5—External Clocking

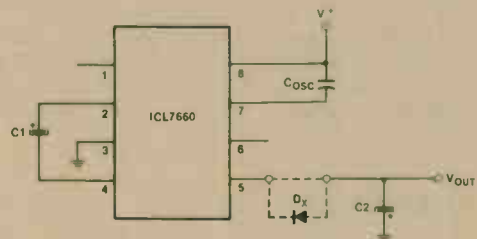
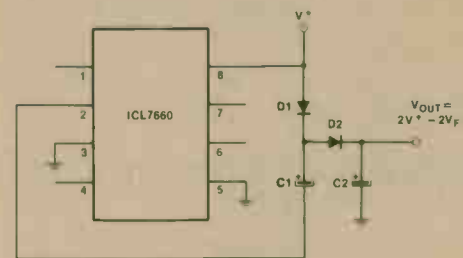


Figure 6—Lowering Oscillator Frequency



Note: D1 & D2 can be any suitable diode

Figure 7—Positive Voltage Multiplier

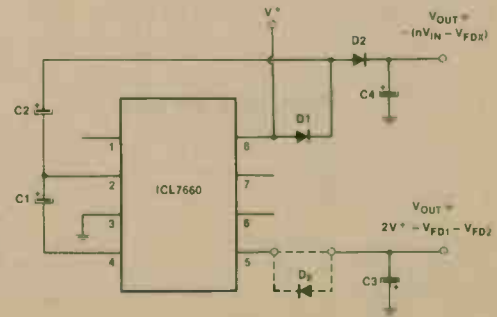
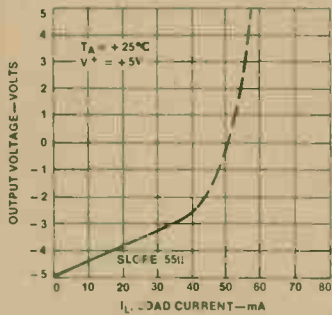
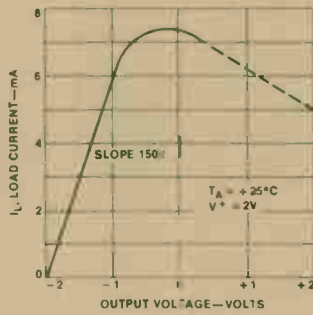


Figure 8—Combining Negative Converter and Positive Multiplier

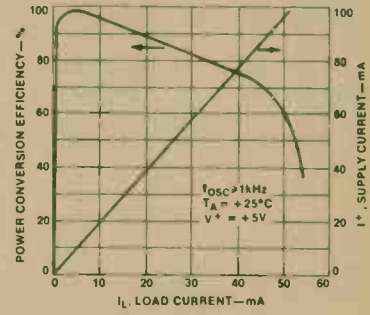
TYPICAL CHARACTERISTICS



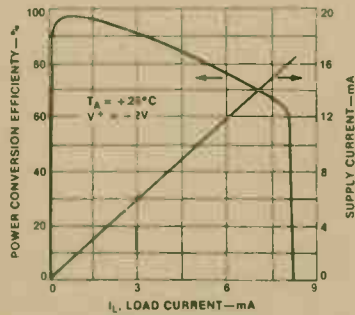
Output Voltage vs Load Current



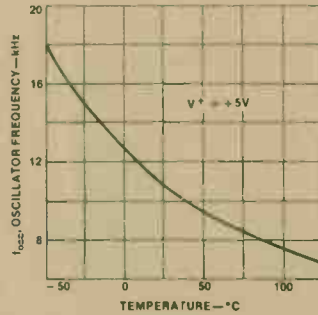
Output Voltage vs Load Current



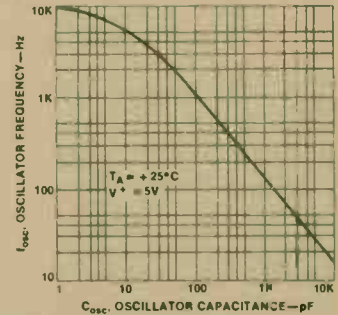
Power Conversion Efficiency vs Load Current



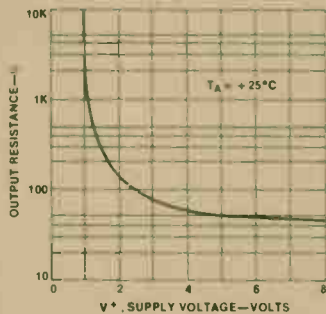
Power Conversion Efficiency vs Load Current



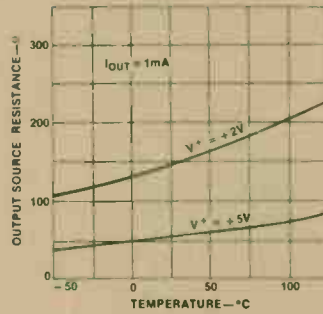
Oscillation Frequency vs Temperature



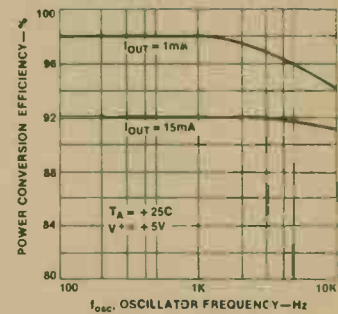
Oscillation Frequency vs External Oscillation Capacitance



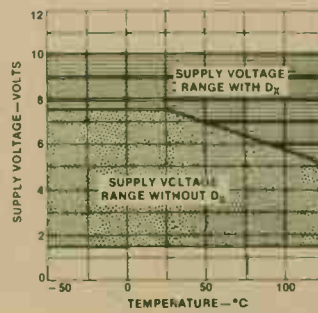
Output Source Resistance vs Supply Voltage



Output Source Resistance vs Temperature



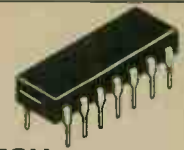
Power Conversion Efficiency vs Oscillation Frequency



Supply Voltage vs Temperature

ICL8038
276-2334

**PRECISION WAVEFORM GENERATOR/
VOLTAGE CONTROLLED OSCILLATOR**



GENERAL DESCRIPTION

The ICL8038 waveform generator is a monolithic integrated circuit capable of producing high accuracy sine, square, triangular, sawtooth and pulse waveforms with a minimum of external components. The frequency (or repetition rate) can be selected externally from 0.001Hz to more than 300kHz using either resistors or capacitors, and frequency modulation and sweeping can be accomplished with an external voltage. The ICL8038 is fabricated with advanced monolithic technology, using Schottky-barrier diodes and thin film resistors, and the output is stable over a wide range of temperature and supply variations.

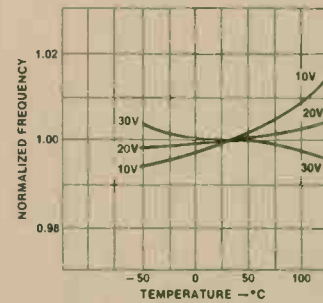
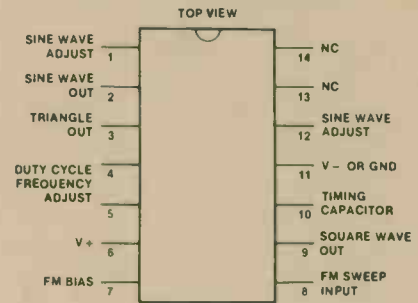
FEATURES

- Low frequency drift with temperature — 50ppm/°C
- Simultaneous sine, square, and triangle wave outputs
- Low distortion — 1% (sine wave output)
- High linearity — 0.1% (triangle wave output)
- Wide operating frequency range — 0.001Hz to 0.3MHz
- Variable duty cycle — 2% to 98%
- High level outputs — TTL to 28 V
- Easy to use — just a handful of external components required

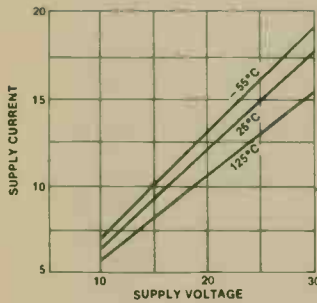
ABSOLUTE MAXIMUM RATINGS

Supply Voltage ±18 V or 36 V Total
 Power Dissipation 750 mW
 Input Voltage (any pin) Not To Exceed Supply Voltages
 Input Current (Pins 4 and 5) 25 mA
 Output Sink Current (Pins 3 and 9) 25 mA
 Storage Temperature Range -65°C to +125°C
 Lead Temperature (Soldering, 10 sec.) 300°C

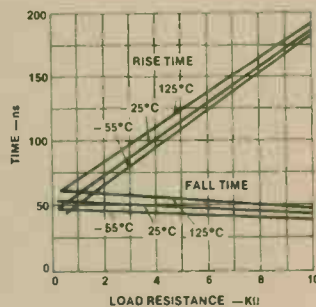
PIN CONNECTION



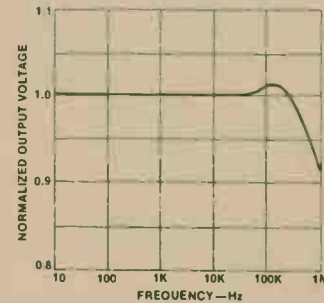
TYPICAL CHARACTERISTICS



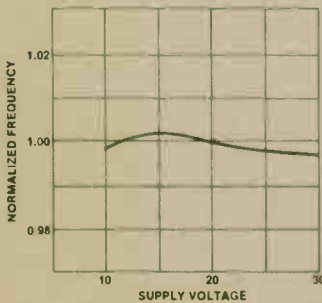
Supply Current vs Supply Voltage



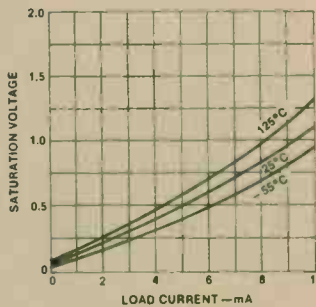
Time vs Load Resistance



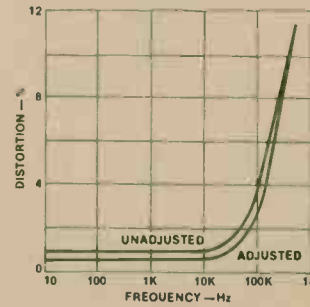
Normalized Output Voltage vs Frequency



Normalized Frequency vs Supply Voltage



Saturation Voltage vs Load Current



Distortion vs Frequency

Performance of the Square-Wave Output

Performance of the Sine-Wave Output

ICL8038 276-2334

TEST CIRCUIT

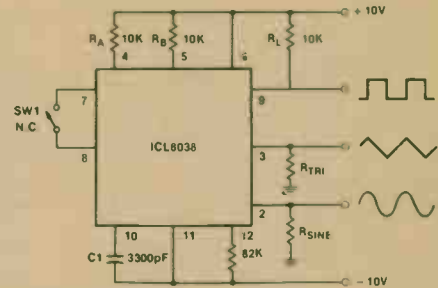
Selecting R_A , R_B AND C

For any given output frequency, there is a wide range of RC combinations that will work, however certain constraints are placed upon the magnitude of the charging current for optimum performance. At the low end, currents of less than $1\mu A$ are undesirable because circuit leakages will contribute significant errors at high temperatures. At higher currents ($I > 5mA$), transistor betas and saturation voltages will contribute increasingly larger errors. Optimum performance will, therefore, be obtained with charging currents of $10\mu A$ to $1mA$. If pins 7 and 8 are shorted together, the magnitude of the charging current due to R_A can be calculated from:

$$I = \frac{R_1 \times V_{SUPPLY}}{(R_1 + R_2)} \times \frac{1}{R_A} = \frac{V_{SUPPLY}}{5R_A}$$

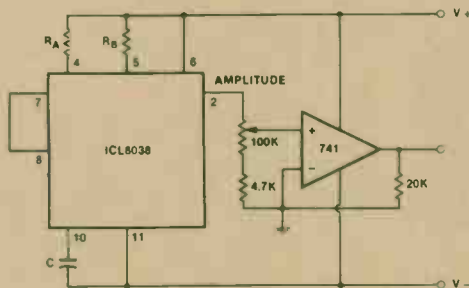
A similar calculation holds for R_B .

The capacitor value should be chosen at the upper end of its possible range.



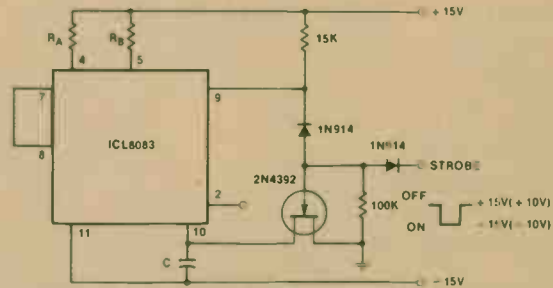
Test Circuit

TYPICAL APPLICATIONS



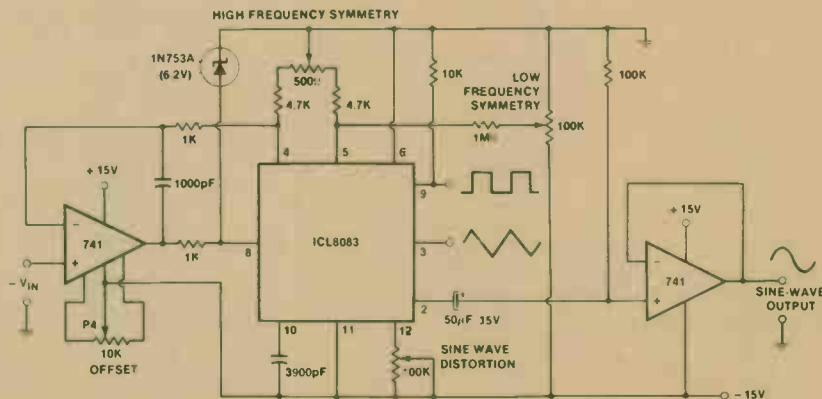
The sine wave output has a relatively high output impedance (1k Ω typical). This circuit provides buffering, gain and amplitude adjustment. A simple op amp follower could also be used.

Sine Wave Output Buffer Amplifier



With a dual supply voltage the external capacitor on pin 10 can be shorted to ground to halt the 8083 oscillation. This application uses a FET switch, diode ANDed with an input strobe signal to allow the output to always start on the same slope.

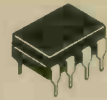
Strobe-Tone Burst Generator



Linear Voltage Controlled Oscillator

MC3423
276-1717

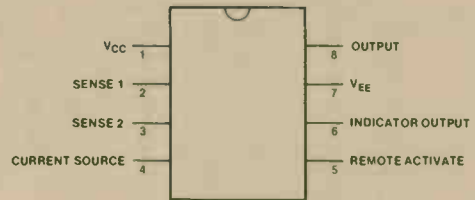
OVERVOLTAGE-SENSING CIRCUIT



GENERAL DESCRIPTION

These overvoltage-sensing circuits are designed to protect sensitive electronic circuitry by monitoring the supply rail and triggering an external "crowbar" SCR in the event of a voltage transient or loss of regulation. The protective mechanism may be activated by an overvoltage condition at the Sense 2 input or by application of a TTL high level to the remote activate terminal. Separate outputs are available to trigger the crowbar circuit and to provide a logic pulse to indicator or power supply control circuitry. The Sense 2 input provides a direct control of the output circuitry. The Sense 1 input controls an internal current source that may be utilized to implement a delayed trigger by connecting its output to an external capacitor and the Sense 1 input. This protects against false triggering due to noise at the Sense 1 input.

PIN CONNECTION



FEATURES

- Separate outputs for "crowbar" and logic circuitry
- Programmable time delay to eliminate noise triggering
- TTL-level activation isolated from voltage-sensing inputs
- 2.6-volt internal voltage reference with temperature coefficient typically 0.08%/°C

ABSOLUTE MAXIMUM RATINGS

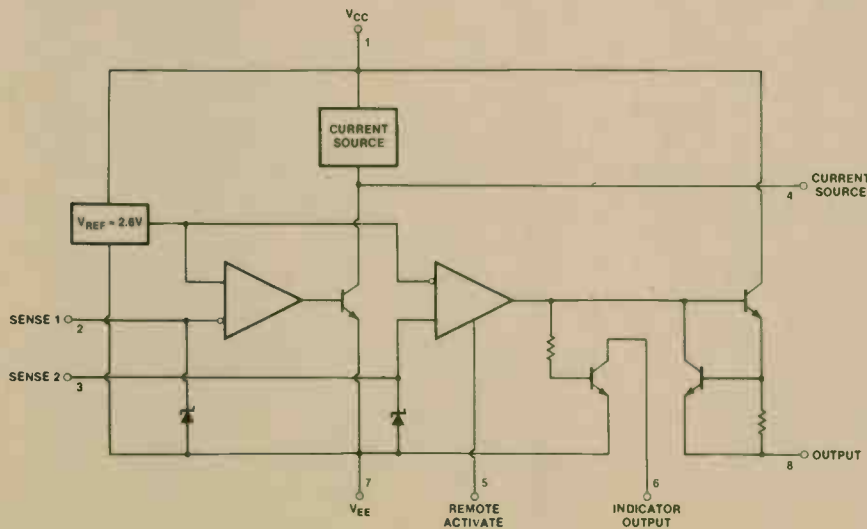
Supply Voltage, V_{CC} (See Note 1)	40 V
Sense 1 Voltage	6.5 V
Sense 2 Voltage	6.5 V
Remote Activate Input Voltage	7 V
Output Current, I_O	300 mA
Continuous Dissipation at (or below) 25°C Free-Air Temperature	1000 mW
Operating Free-Air Temperature Range	0 to 70°C
Storage Temperature Range	-65 to 150°C

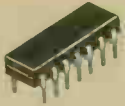
NOTES: 1. Voltage values are measured with respect to the V_{EE} terminal.

RECOMMENDED OPERATING CONDITIONS

	MIN	MAX	UNIT
Supply Voltage, V_{CC}	4.5	40	V
High-Level Input Voltage, Remote Activate Input	2		V
Low-Level Input Voltage, Remote Activate Input		0.5	V

BLOCK DIAGRAM





QUAD COMPARATOR

339
276-1712

GENERAL DESCRIPTION

The 339 series consists of four independent voltage comparators which were designed specifically to operate from a single power supply over a wide range of voltages. Operation from split power supplies is also possible and the low power supply current drain is independent of the magnitude of the power supply voltage. These comparators also have a unique characteristic in that the input common-mode voltage range includes ground, even though operated from a single power supply voltage.

FEATURES

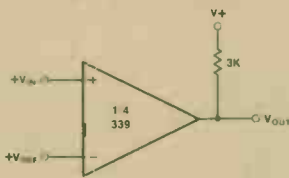
- Wide single supply: Voltage range $2 V_{DC}$ to $32 V_{DC}$ or dual supplies $\pm 1 V_{DC}$ to $\pm 16 V_{DC}$
- Very low supply current drain (0.8 mA)—independent of supply voltage (1 mW/comparator at $+5 V_{DC}$)
- Input common mode voltage range includes ground
- Differential input voltage range equal to the power supply voltage
- Low output 1 mV at $5 \mu A$; saturation voltage 70 mV at 1 mA
- Output voltage compatible with TTL (fanout of 2), DTL, ECL, MOS and CMOS logic systems

ABSOLUTE MAXIMUM RATINGS

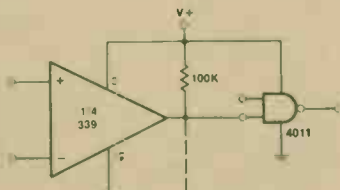
Supply Voltage, V_{+}	$32 V_{DC}$ or $\pm 16 V_{DC}$
Differential Input Voltage	$36 V_{DC}$
Input Voltage	$-0.3 V_{DC}$ to $+36 V_{DC}$
Power Dissipation	
Molded DIP	570 mW
Cavity DIP	900 mW
Output Short-Circuit to GND	Continuous
Input Current ($V_{IN} = -0.3 V_{DC}$)	50 mA
Operating Temperature Range	0 to $+70^{\circ}C$
Storage Temperature Range	-65 to $+150^{\circ}C$
Lead Temperature (Soldering, 10 seconds)	$300^{\circ}C$

TYPICAL APPLICATIONS

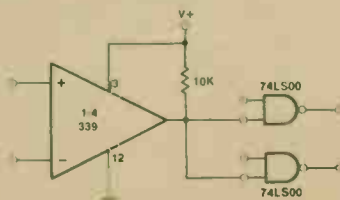
5 VOLT GROUP



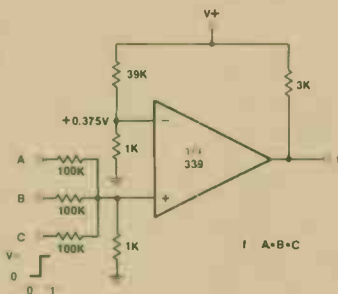
Basic Comparator



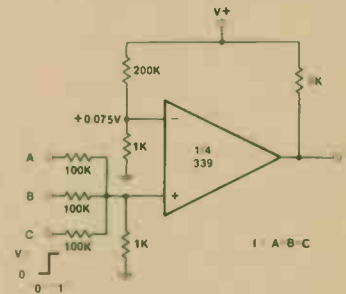
Driving CMOS



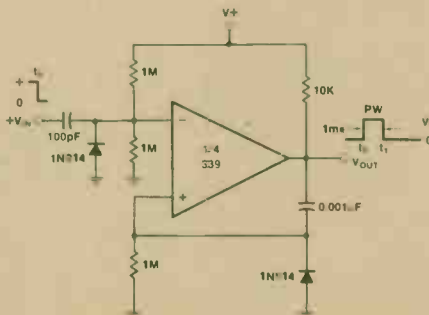
Driving TTL



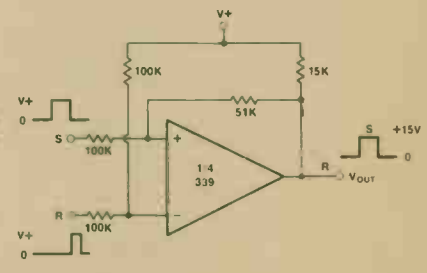
AND Gate



OR Gate

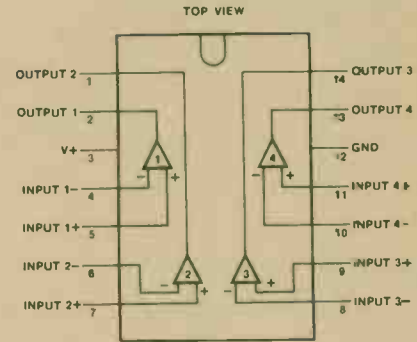


One-Shot Multivibrator

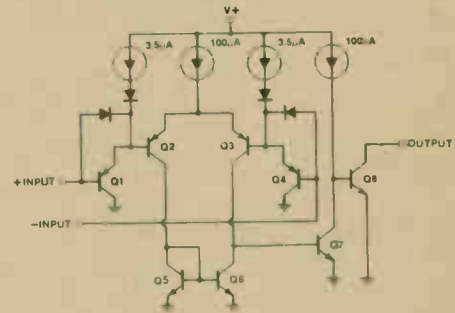


Bi-Stable Multivibrator

PIN CONNECTION

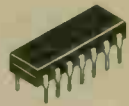


INTERNAL CIRCUIT



565
276-1720

PHASE LOCKED LOOP



GENERAL DESCRIPTION

The 565 phase-locked loop (PLL) is a self-contained, adaptable filter and demodulator for the frequency range from 0.001 Hz to 500kHz. The circuit comprises a voltage-controlled oscillator of exceptional stability and linearity, a phase comparator, an amplifier and a low-pass filter as shown in the block diagram. The center frequency of the PLL is determined by the free-running frequency of the VCO; this frequency can be adjusted externally with a resistor or a capacitor. The low-pass filter, which determines the capture characteristics of the loop, is formed by an internal resistor and an external capacitor.

FEATURES

- Highly stable center frequency (200ppm/°C typ.)
- Wide operating voltage range (±6 to ±12 volts)
- Highly linear demodulated output (0.2% typ.)
- Center frequency programming by means of a resistor or capacitor, voltage or current
- TTL and LS compatible square-wave output; loop can be opened to insert digital frequency divider.
- Highly linear triangle wave output
- Reference output for connection of comparator in frequency discriminator
- Bandwidth adjustable from $\pm 1\%$ to >math>\pm 60\%</math>
- Frequency adjustable over 10 to 1 range with same capacitor

APPLICATIONS

- Frequency shift keying
- Modems
- Telemetry receivers
- Tone decoders
- SCA receivers
- Wideband FM discriminators
- Data synchronizers
- Tracking filters
- Signal restoration
- Frequency multiplication & division

ABSOLUTE MAXIMUM RATINGS

Maximum operating voltage ±12V
 Input voltage 3Vp-p
 Power dissipation 300mW
 Operating temperature range 0 to +70°C
 Storage temperature -65 to +150°C

DESIGN FORMULAS (See Figure 1, Page 100)

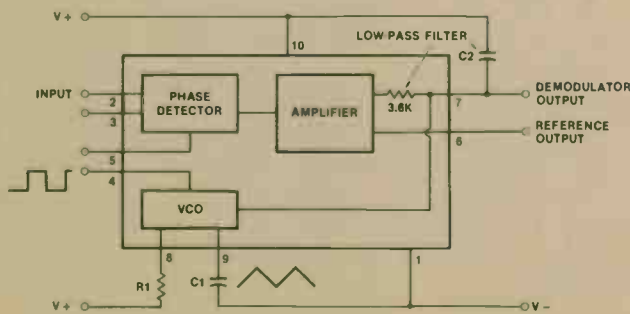
Free-running frequency of VCO: $f_0 \cong \frac{1.2}{4R1C1}$ in Hz

Lock-range $f_L = \pm \frac{8f_0}{V_{CC}}$ in Hz

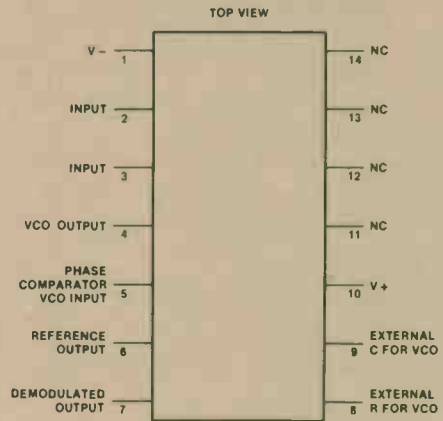
Capture-range: $f_C \cong \pm \frac{1}{2\pi} \sqrt{\frac{2\pi f_L}{\tau}}$

where $\tau = (3.6 \times 10^3) \times C2$

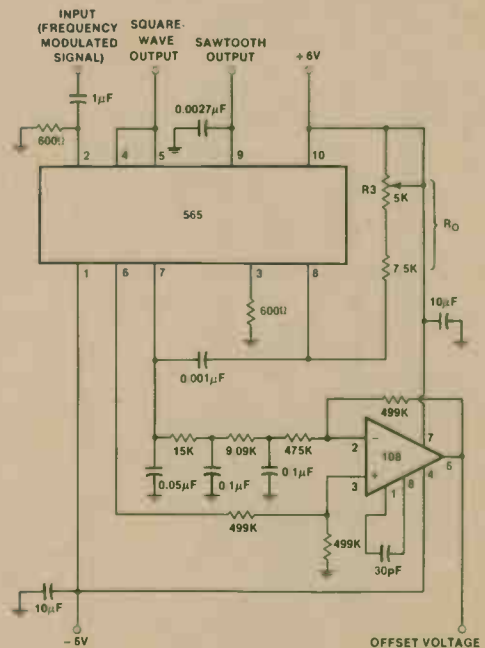
BLOCK DIAGRAM



PIN CONNECTION

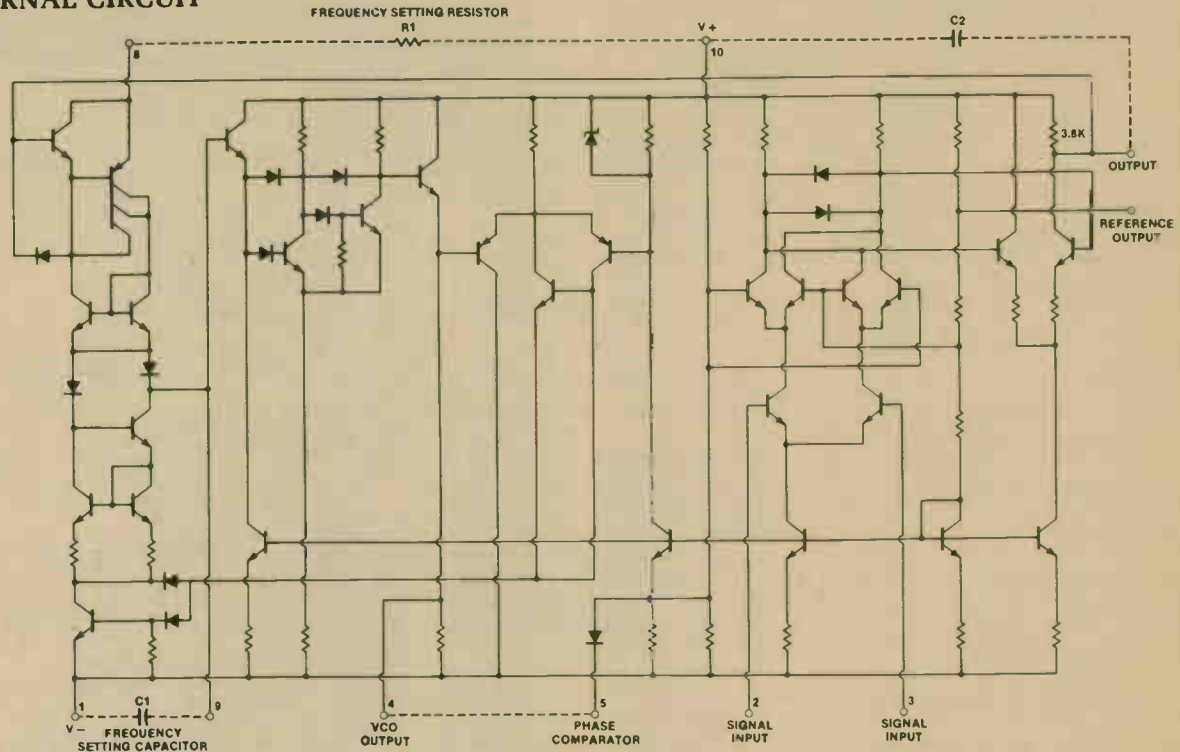


TEST CIRCUIT

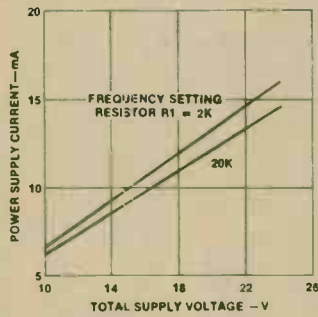


Test Circuit

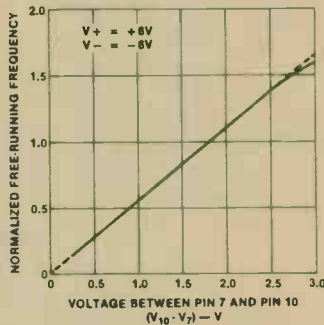
INTERNAL CIRCUIT



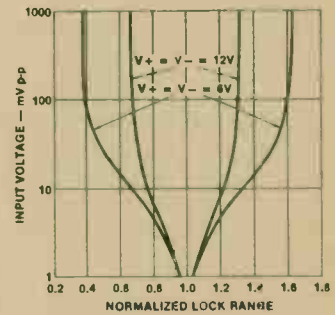
TYPICAL CHARACTERISTICS



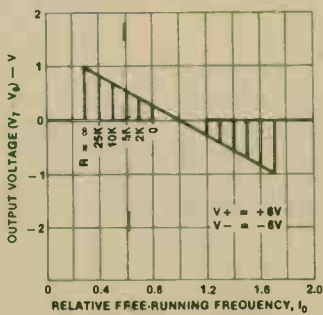
Power Supply Current vs Total Supply Voltage



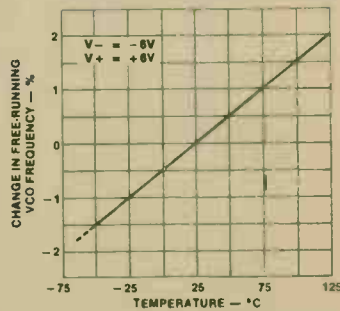
Normalized Free Running Frequency vs Voltage Between Pin 7 and Pin 10



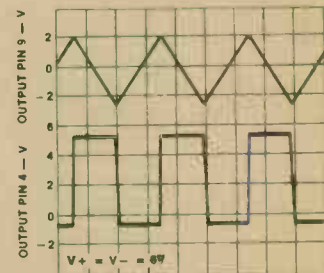
Input Voltage vs Normalized Lock Range



Output Voltage vs Relative Free Running Frequency



Change in Free-Running VCO Frequency vs Temperature



VCO Output Waveform

565 276-1720

TYPICAL APPLICATIONS

FM Demodulation

The 565 Phase Locked Loop is a general purpose circuit designed for highly linear FM demodulation. During lock, the average dc level of the phase comparator output signal is directly proportional to the frequency of the input signal. As the input frequency shifts, it is this output signal which causes the VCO to shift its frequency to match that of the input. Consequently, the linearity of the phase comparator output with frequency is determined by the voltage-to-frequency transfer function of the VCO.

Because of its unique and highly linear VCO, the 565 PLL can lock to and track an input signal over a very wide bandwidth (typically $\pm 60\%$) with very high linearity (typically, within 0.5%).

A typical connection diagram is shown in Figure 1. The VCO free-running frequency is given approximately by

$$f_0 = \frac{1.2}{4R1C1}$$

and should be adjusted to be at the center of the input signal frequency range. C1 can be any value, but R1 should be within the range of 2000 to 20,000 ohms with an optimum value on the order of 4000 ohms. The source can be direct coupled if the dc resistances seen from pins 2 and 3 are equal and there is no dc voltage difference between the pins. A short between pins 4 and 5 connects the VCO to the phase comparator. Pin 6 provides a dc reference voltage that is close to the dc potential of the demodulated output (pin 7). Thus, if a resistance is connected between pins 6 and 7, the gain of the output stage can be reduced with little change in the dc voltage level at the output. This allows the lock range to be decreased with little change in the free-running frequency. In this manner the lock range can be decreased from $\pm 60\%$ of f_0 to approximately $\pm 20\%$ of f_0 (at $\pm 6V$).

A small capacitor (typically 0.001 μF) should be connected between pins 7 and 8 to eliminate possible oscillation in the control current source.

A single-pole loop filter is formed by the capacitor C2, connected between pin 7 and the positive supply, and an internal resistance of approximately 3600 ohms.

Frequency Shift Keying (FSK)

FSK refers to data transmission by means of a carrier which is shifted between two preset frequencies. This frequency shift is usually accomplished by driving a VCO with the binary data signal so that the two resulting frequencies correspond to the "0" and "1" states (commonly called space and mark) of the binary data signal.

SCA (Background Music) Decoder

Some FM stations are authorized by the FCC to broadcast uninterrupted background music for commercial use. To do this a frequency modulated subcarrier of 67kHz is used. The frequency is chosen so as not to interfere with the normal stereo or monaural program; in addition, the level of the subcarrier is only 10% of the amplitude of the combined signal.

The SCA signal can be filtered out and demodulated with the 565 Phase Locked Loop without the use of any resonant circuits.

A resistive voltage divider is used to establish a bias voltage for the input (pins 2 and 3). The demodulated (multiplex) FM signal is fed to the input through a two-stage high-pass filter, both to effect capacitive coupling and to attenuate the strong signal of the regular channel. A total signal amplitude, between 80mV and 300mV, is required at the input. Its source should have an impedance of less than 10,000 ohms.

The Phase Locked Loop is tuned to 67kHz with a 5000 ohm potentiometer, only approximate tuning is required, since the loop will seek the signal.

The demodulated output (pin 7) passes through a three-stage low-pass filter to provide de-emphasis and attenuate the high-frequency noise which often accompanies SCA transmission. Note that no capacitor is provided directly at pin 7; thus, the circuit is operating as a first-order loop. The demodulated output signal is in the order of 50mV and the frequency response extends to 7kHz.

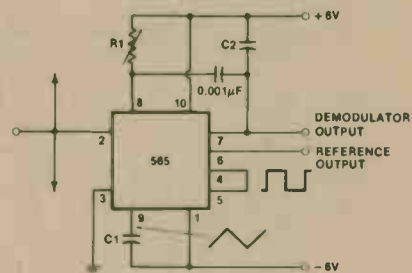


Figure 1 - FM Demodulation

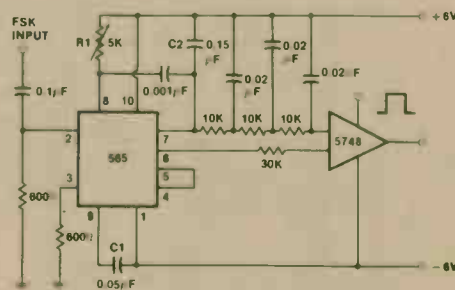


Figure 2 - Frequency Shift Keying (FSK)

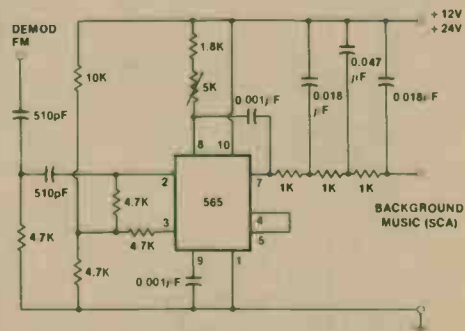


Figure 3 - SCA Decoder



TONE DECODER

567
276-1721

GENERAL DESCRIPTION

The 567 is a general purpose tone decoder designed to provide a saturated transistor switch to ground when an input signal is present within the passband. The circuit consists of an I and Q detector driven by a voltage controlled oscillator which determines the center frequency of the decoder. External components are used to independently set center frequency, bandwidth and output delay.

FEATURES

- 20 to 1 frequency range with an external resistor
- Logic compatible output with 100 mA current sinking capability
- Bandwidth adjustable from 0 to 14%
- High rejection of out of band signals and noise
- Immunity to false signals
- Highly stable center frequency
- Center frequency adjustable from 0.01 Hz to 500 kHz

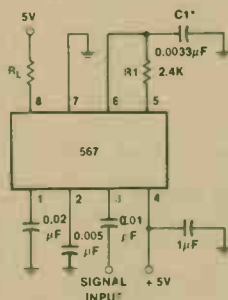
APPLICATIONS

- Touch tone decoding
- Precision oscillator
- Frequency monitoring and control
- Wide band FSK demodulation
- Ultrasonic controls
- Carrier current remote controls
- Communications paging decoders

ABSOLUTE MAXIMUM RATINGS

Supply Voltage	9V
Power Dissipation	300 mW
V ₈ (Output Voltage)	15V
V ₃ (- Voltage at Input)	-10V
V ₃ (+ Voltage at Input)	V ₈ + 0.5V
Operating Temperature	0 to +70°C
Storage Temperature Range	-65 to +150°C

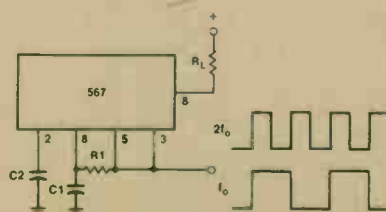
TYPICAL APPLICATIONS



*Note: Adjust for f_c = 100kHz.
f_c = 100kHz + 5V

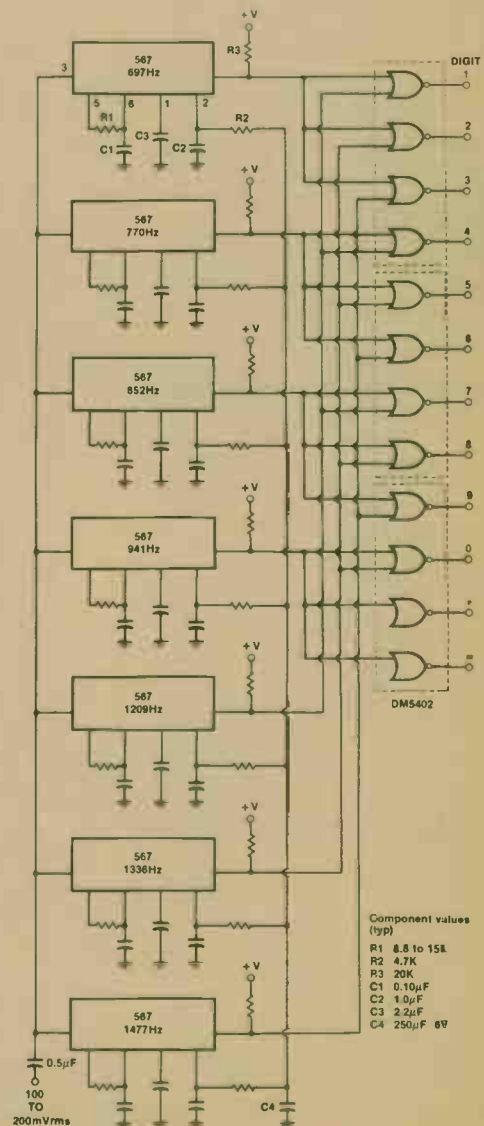
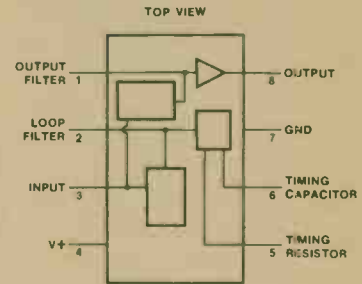
The center frequency of the tone decoder is equal to the free-running frequency of the VCO.
This is given by $f_c = 1/R1C1$
The band width of the filter may be found from the approximation
 $BW = 1070 \sqrt{\frac{V_{IN}}{f_c C2}}$ in % of f_c.
Where: V_{IN} = Input voltage (volts rms), V_{IN} < 200mV.
C2 = Capacitance at pin 2 in μF.

AC Test Circuit



Oscillator with Double Frequency Output

PIN CONNECTION



Component values (typ)
R1 8.8 to 15k
R2 4.7k
R3 20k
C1 0.10μF
C2 1.0μF
C3 2.2μF
C4 250μF 8V

Touch-Tone Decoder

3909
276-1705

LED FLASHER/OSCILLATOR



GENERAL DESCRIPTION

The 3909 is a monolithic oscillator specifically designed to flash light emitting diodes. By using the timing capacitor for voltage boost, it delivers pulses of 2 or more volts to the LED while operating on a supply of 1.5V or less. The circuit is inherently self-starting, and requires addition of only a battery and capacitor to function as a LED flasher.

It has been optimized for low power drain and operation from weak batteries so that continuous operation life exceeds that expected from battery rating.

Application is made simple by inclusion of internal timing resistors and an internal LED current limit resistor.

Timing capacitors will generally be of the electrolytic type, and a small 3V rated part will be suitable for any LED flasher using a supply up to 6V. However, when picking flash rates, it should be remembered that some electrolytics have very broad capacitance tolerances, for example -20% to +100%.

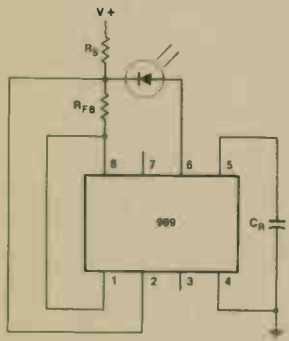
FEATURES

- Operation over one year from one C size flashlight cell
- Bright, high current LED pulse
- Minimum external parts
- Low voltage operation, from just over 1V to 5V
- Low current drain, averages under 0.5 mA during battery life
- Powerful: as an oscillator directly drives an 8Ω speaker

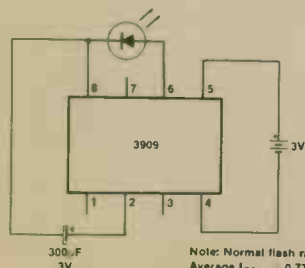
ABSOLUTE MAXIMUM RATINGS

Power Dissipation	500 mW
V+ Voltage	6.4V
Pulse Width	6 ms
Peak LED Current	45 mA
Operating Current	75 mA
Flash Frequency	1.3 Hz
High Flash Frequency	1.1 kHz
Operating Temperature Range	-25 to +70°C

TYPICAL APPLICATIONS

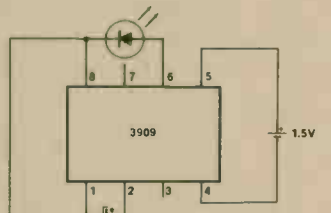


Warning Flasher High Voltage Powered



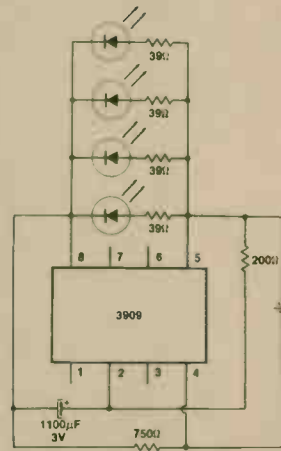
3V Flasher

Note: Normal flash rate: 1Hz; Average I_{DRAIN} = 0.77mA



1.5V Flasher

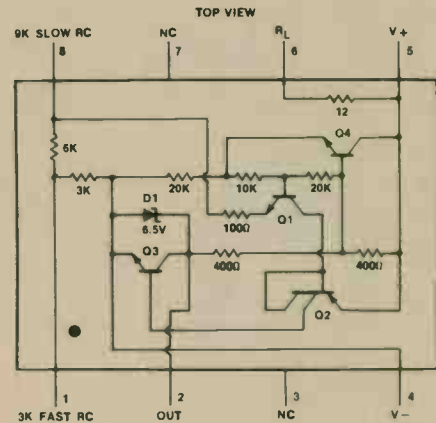
Note: Normal flash rate: 1 Hz



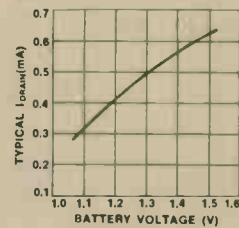
Parallel LED's

Nominal flash rate: 1.3Hz Average I_{DRAIN} = 2mA

PIN CONNECTION



TYPICAL CHARACTERISTICS



Drain Current vs Battery Voltage

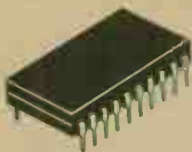
ESTIMATED BATTERY LIFE (CONTINUOUS 1.5V FLASHER OPERATION)

SIZE CELL	TYPE	
	STANDARD	ALKALINE
AA	3 MONTHS	6 MONTHS
C	7 MONTHS	15 MONTHS
D	1.3 YEARS	2.6 YEARS

Note: Estimates are made from our tests and manufacturers data. Conditions are fresh batteries and room temperature. Cled or "leak-proof" batteries are recommended for any application of five months or more. Nickel Cadmium cells are not recommended.

TYPICAL OPERATING CONDITIONS

V+	NORMAL FLASH Hz	C _T	R _b 1W	R _{FB}	V+ RANGE
6V	2	400µF	1K	1.5K	5-25V
15V	2	180µF	3.9K	1K	13-50V
100V	1.7	180µF	43K	1K	85-200V



8-BIT MICROPROCESSOR COMPATIBLE A/D CONVERTER

ADC0801
276-1792

GENERAL DESCRIPTION

The ADC0801 is a CMOS 8-bit successive approximation A/D converter which uses a modified potentiometric ladder and is designed to operate with the 8080A control bus via three-state outputs. This converter appears to the processor as memory locations or I/O ports, hence no interfacing logic is required.

The differential analog voltage input has good common-mode-rejection, and permits offsetting the analog zero-input-voltage value. In addition, the voltage reference input can be adjusted to allow encoding any smaller analog voltage span to the full 8 bits of resolution.

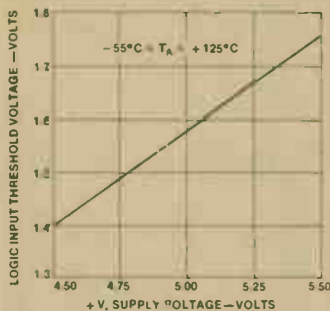
FEATURES

- MCS-48 and MCS-80/85 bus compatible — no interfacing logic required
- Conversion time <math>< 100\mu s</math>
- Easy interface to all microprocessors
- Will operate "stand alone"
- Differential analog voltage inputs
- Works with bandgap voltage references
- TTL compatible inputs and outputs
- On-chip clock generator
- 0 to 5 V analog voltage input range (single +5 V supply)
- No zero-adjust required

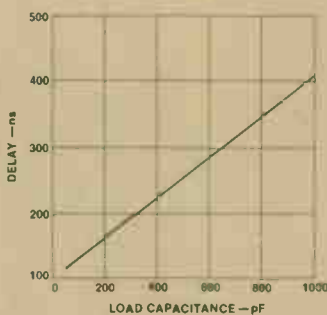
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	..... 6.5 V
Voltage at Any Input	..... -0.3 to +0.3 V
Storage Temperature Range	..... -65 to +150°C
Package Dissipation at $T_A = +25^\circ\text{C}$	..... 875 mW
Lead Temperature (Soldering, 10 seconds)	..... 300°C

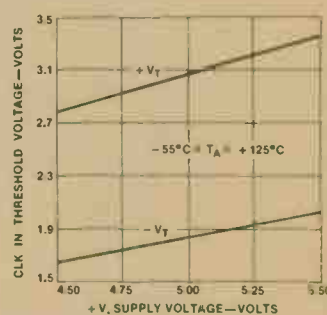
TYPICAL CHARACTERISTICS



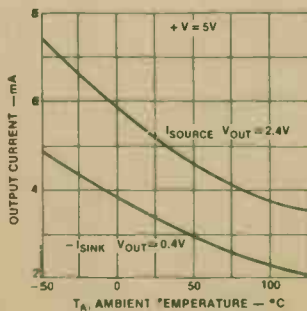
Logic Input Threshold Voltage vs Supply Voltage



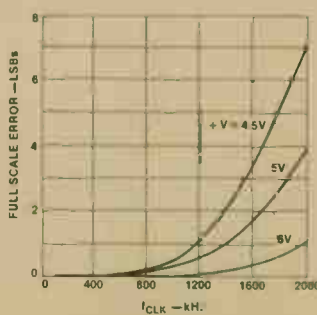
Delay from Falling Edge of RD to Output Data Valid vs Load Capacitance



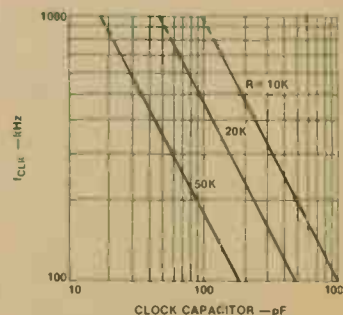
CLK IN Schmitt Trip Levels vs Supply Voltage



Output Current vs Ambient Temperature

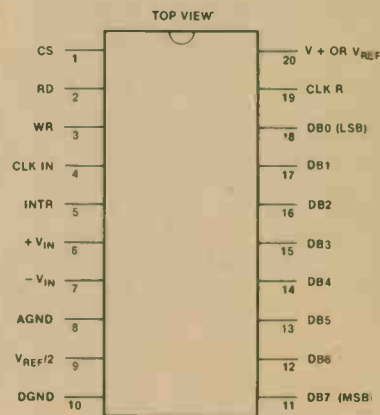


Full-Scale Error vs Clock Frequency



Clock Frequency vs Clock Capacitor

PIN CONNECTION

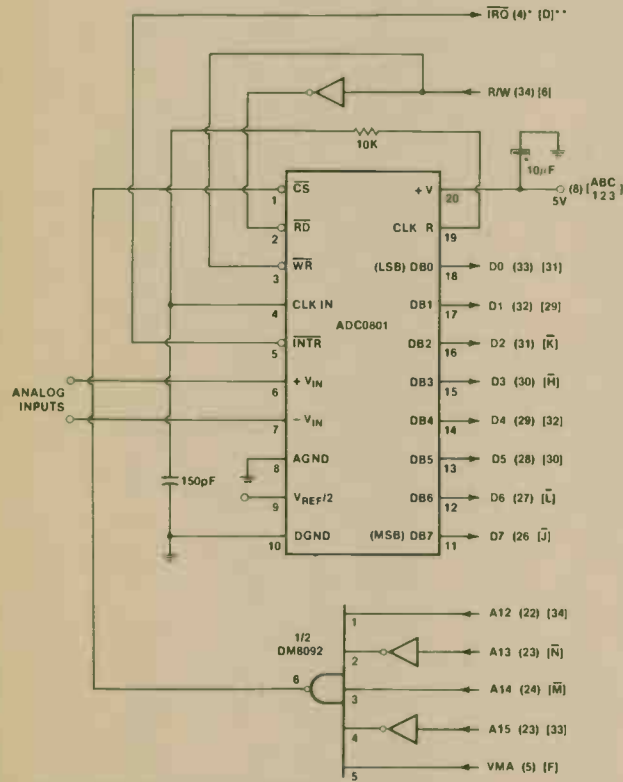


ADC0801 276-1792

TYPICAL APPLICATIONS

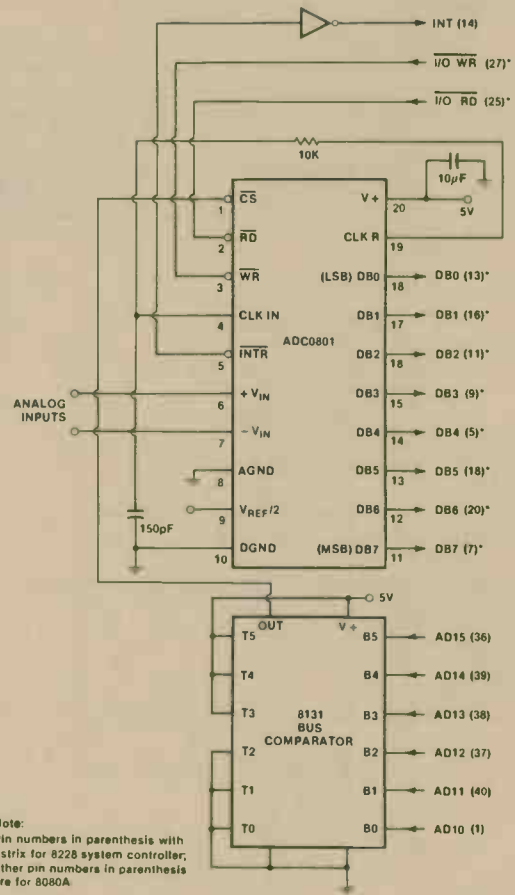
Interfacing MCS-48 and MSC-80/85 Processors

This converter has been designed to directly interface with an MCS-80/85 microprocessor or system. The 3-state output capability of the A/D eliminates the need for a peripheral interface device, although address decoding is still required to generate the appropriate \overline{CS} for the converter. The A/D can be mapped into memory space (using standard memory-address decoding for \overline{CS} and the \overline{MEMR} and \overline{MEMW} strobes) or it can be controlled as an I/O device by using the $\overline{I/O R}$ and $\overline{I/O W}$ strobes and decoding the address bits A0 - A7 (or address bits A8 - A15, since they will contain the same 8-bit address information) to obtain the \overline{CS} input. Using the I/O space provides 256 additional addresses and may allow a simpler 8-bit address decoder, but the data can only be input to the accumulator. To make use of the additional memory reference instructions, the A/D should be mapped into memory space.



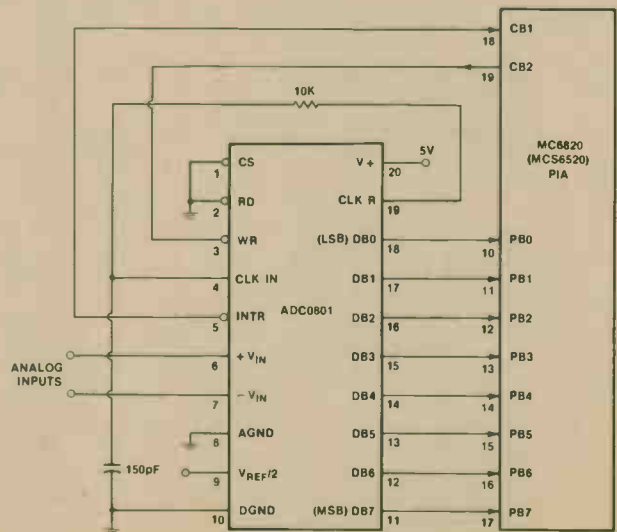
*Note: Numbers in parenthesis refer to MC6800 CPU pin out.
 ** Note: Numbers and letters in brackets refer to standard MC6800 system common bus code.

ADC0801 to MC6800 CPU Interface



Note:
 Pin numbers in parenthesis with
 asterix for 8228 system controller,
 other pin numbers in parenthesis
 are for 8080A.

ADC0801 to 8080A CPU Interface



ADC0801 to MC6820 PIA Interface

LOW VOLTAGE REFERENCE

ICL8069
276-1793

GENERAL DESCRIPTION

The ICL8069 is a 1.2 V temperature compensated voltage reference. It uses the band-gap principal to achieve excellent stability and low noise at reverse currents down to 50 μA . Applications include analog-to-digital converters, digital-to-analog converters, threshold detectors, and voltage regulators. Its low power consumption makes it especially suitable for battery operated equipment.

FEATURES

- Temperature coefficients guaranteed to 10 ppm/ $^{\circ}\text{C}$ max.
- Low bias current . . . 50 μA min
- Low dynamic impedance
- Low reverse voltage
- Low cost

ABSOLUTE MAXIMUM RATINGS

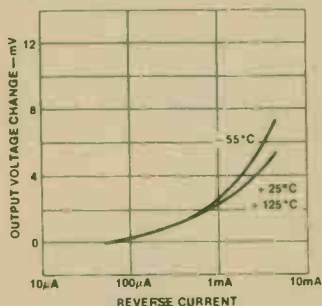
Reverse Voltage (See Note 1)	1.25 V
Forward Current	10 mA
Reverse Current	10 mA
Power Dissipation	Limited by max forward/reverse current
Storage Temperature	-65 to +200 $^{\circ}\text{C}$
Operating Temperature	0 to +70 $^{\circ}\text{C}$

- (1) In normal use, the reverse voltage cannot exceed the reference voltage. However when plugging units into a powered-up test fixture, an instantaneous voltage equal to the compliance of the test circuit will be seen. This should not exceed 20 V.
- (2) The diode should not be operated with shunt capacitances between 200pF and 0.22 μF , as it may oscillate at some currents. If circuit strays in excess of 200pF are anticipated, a 4.7 μF shunt capacitor will ensure stability under all operating conditions.

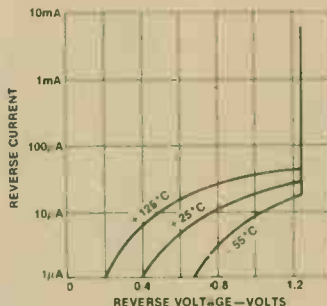
PIN CONNECTION



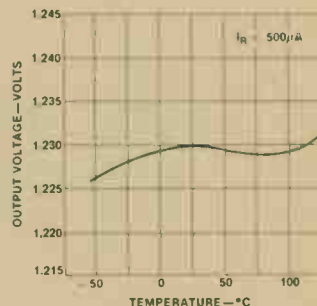
TYPICAL CHARACTERISTICS



Output Voltage Change vs Reverse Current

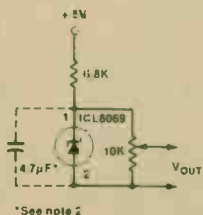


Reverse Current vs Reverse Voltage

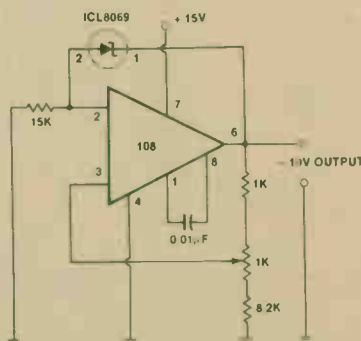


Output Voltage vs Temperature

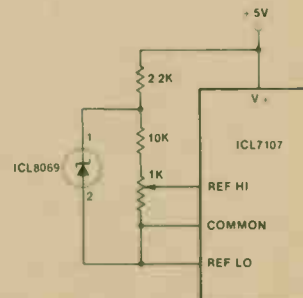
TYPICAL APPLICATIONS



Simple Reference (1.2 volts or less)



Buffered 10 V Reference Using a Single Supply



Double Regulated 100 mV Reference for ICL7107 One-Chip DPM Circuit

AY-3-1015
276-1794

UNIVERSAL ASYNCHRONOUS RECEIVER/TRANSMITTER



GENERAL DESCRIPTION

The Universal Asynchronous Receiver/Transmitter (UAR/T) is an LSI sub-system which accepts binary characters from either a terminal device or a computer and receives/transmits this character with appended control and error detecting bits. All characters contain a start bit, 5 to 8 data bits, one or two stop bits and either odd/even parity or no parity. In order to make the UAR/T universal, the baud, bits per word, parity mode, and the number of stop bits are externally selectable. The device is constructed on a single monolithic chip. All inputs and outputs are directly compatible with MTOS/MTNS logic, and also with TTL/DTL/CMOS logic without the need for interfacing components. All strobed outputs are three-state logic.

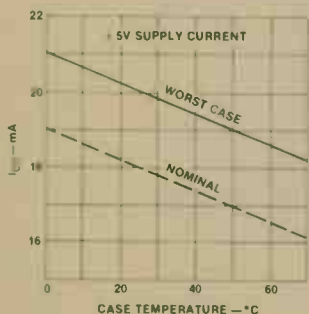
FEATURES

- DTL and TTL compatible — no interfacing circuits required — drives one TTL load
- Fully Double Buffered — eliminates need for system synchronization, facilitates high-speed operation
- Full Duplex Operation — can handle multiple bauds (receiving-transmitting) simultaneously
- Start Bit Verification — decreases error rate with center sampling
- Receiver center sampling of serial input; 48% distortion immunity
- High Speed Operation
- Three-State Outputs — bus structure capability
- Low Power — minimum power requirements
- Input Protected — eliminates handling problems
- GIANT P-channel nitride process
- 0 to 40kbaud
- Pull up resistors to V_{CC} on all inputs

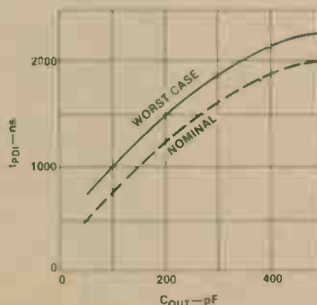
ABSOLUTE MAXIMUM RATINGS

V_{CC} (with respect to V_{CC}) - 20 to + 0.3 V
 Clock and logic input voltages (with respect to V_{CC}) - 20 to + 0.3 V
 Lead Temperature (soldering, 10 seconds) + 330°C
 Storage Temperature - 65°C to + 150°C

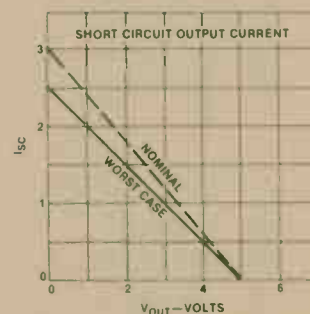
TYPICAL CHARACTERISTICS



5 V Supply Current vs Case Temperature

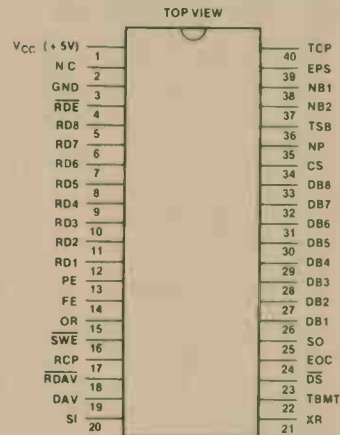


Delay Time vs Output Capacitance



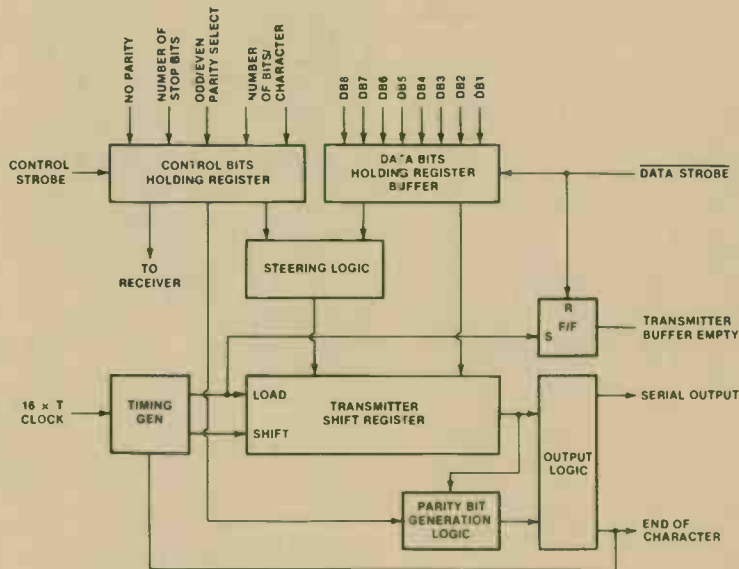
Short Circuit Output Current vs Output Voltage

PIN CONNECTION

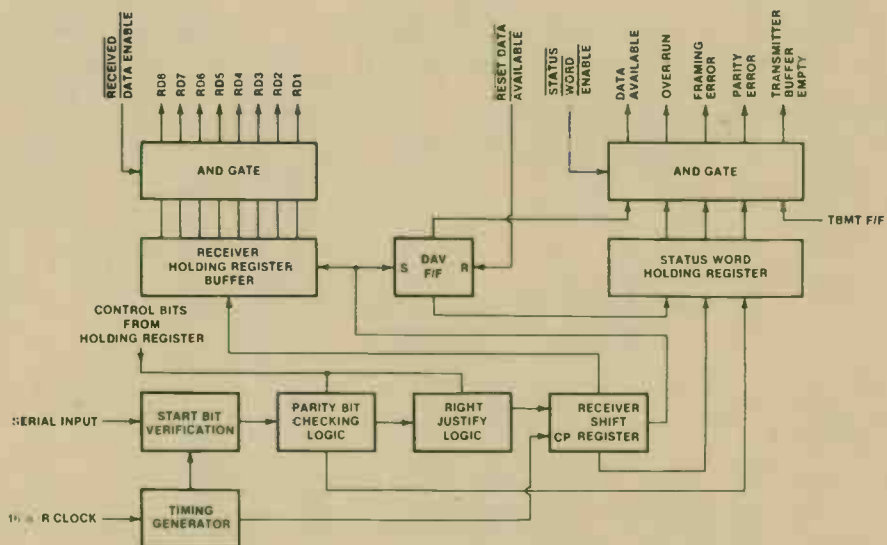


PIN	ABREVIATION	DESCRIPTION
1	VCC	POWER SUPPLY
2	N.C.	
3	GND	GROUND
4	RDE	RECEIVED DATA ENABLE
5	RDB	RECEIVED DATA BITS
6	RD7	
7	RD6	
8	RD5	
9	RD4	
10	RD3	
11	RD2	
12	RD1	
13	PE	PARITY ERROR
14	FE	FRAMING ERROR
15	OR	OVER RUN
16	SWE	STATUS WORD ENABLE
17	RCP	RECEIVER CLOCK
18	RDAV	RESET DATA AVAILABLE
19	DAV	DATA AVAILABLE
20	SI	SERIAL INPUT
21	XR	EXTERNAL RESET
22	TBMT	TRANSMITTER BUFFER EMPTY
23	DS	DATA STROBE
24	EOC	END OF CHARACTER
25	SO	SERIAL OUTPUT
26-33	DB1-DB8	DATA BIT INPUTS
34	CS	CONTROL STROBE
35	NP	NO PARITY
36	TSB	NUMBER OF STOP BITS
37-38	NB2,NB1	NUMBER OF BITS/CHARACTER
39	EPS	ODD/EVEN PARITY SELECT
40	TCP	TRANSMITTER CLOCK

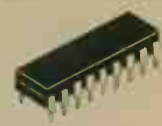
TRANSMITTER BLOCK DIAGRAM



RECEIVER BLOCK DIAGRAM



AY-5-8116 DUAL BAUD RATE GENERATOR
276-1795



GENERAL DESCRIPTION

The AY-5-8116 is a very versatile Dual Baud Rate Generator. This device is designed to generate the full spectrum of 16 asynchronous/synchronous data communication frequencies for use with 16X UART/USRT devices. An on-chip crystal oscillator available on the 8116 is capable of providing a master reference frequency. Alternatively, complimentary TTL level clock signals can be input to pins 1 and 18. When using TTL outputs to drive the XTAL/EXT inputs, they should not be used to drive other TTL inputs due to excessive loading which may result in a reduction of noise immunity. Dividers are used on the output of the oscillator/buffer which generate the output frequencies f_T and f_R . These dividers can divide any integer from 6 to $2^{19} + 1$, inclusive. When using an even divisor, the output will be square; an odd divisor will cause output to be high longer than it is low by one clock period (f_X).

The 8116 allows generation of other frequencies with the use of its two divisor ROMs which contain 16 divisors, each 19 bits wide, allowing for up to 32 different divisors on custom parts.

Externally strobed data latches are used to hold the divisor select bits, R_A - R_D and T_A - T_D . The strobe inputs, STR or STT, allow data to pass directly through the data latch when in the high state. A new frequency is initiated within 3.5 μ sec of a change in any of the four divisor select bits read by the device. Pull-up resistors are provided on the divisor select inputs while are not present on the strobe inputs.

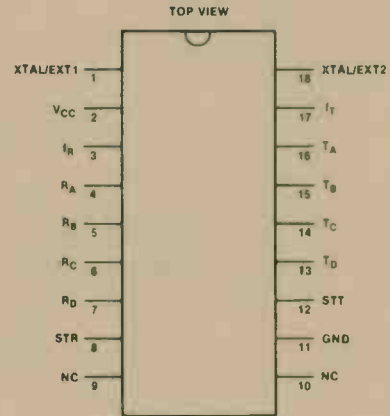
FEATURES

- Single +5V power supply
- On-chip crystal oscillator or external frequency input
- Direct compatibility with UART/USRT
- Dual selectable 16X clock outputs
- Reprogrammable ROM allowing generation of non-standard frequencies
- TTL, MOS compatibility

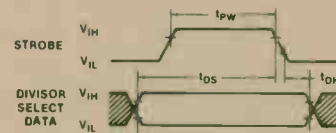
PIN FUNCTIONS

Pin. No.	Signal	Function
1	XTAL/EXT1	Input is either one pin of the crystal package or one polarity of the external input.
2	V _{CC}	Positive power supply—normally +5V.
3	f _R	This output runs at a frequency selected by the Receiver divisor select data bits.
4-7	R _A , R _B , R _C , R _D	These inputs, as shown in Table 1, select the receiver output frequency f _R .
8	STR	A high level input strobe loads the received data (R _A , R _B , R _C , R _D) into the receiver divisor select register. This input may be strobed or hard-wired to a high level.
9	NC	NC
10	NC	NC
11	GND	Ground
12	STT	A high level input strobe loads the transmitter data (T _A , T _B , T _C , T _D) into the transmitter divisor select register. This input may be strobe or hard-wired to a high level.
13-16	T _D , T _C , T _B , T _A	These inputs, as shown in Table 1, select the transmitter output frequency, f _T .
17	f _T	This output runs at a frequency selected by the transmitter divisor select data bits.
18	XTAL/EXT ₂	Input is either one pin of the crystal package or one polarity of the external input.

PIN CONNECTION



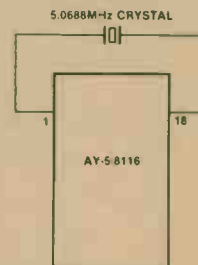
TIMING DIAGRAM



ABSOLUTE MAXIMUM RATINGS

Positive Voltage on any Pin, with Respect to Ground+8.0V
 Negative Voltage on any Pin, with Respect to Ground-0.3V
 Power Supply Current, I_{CC} 50mA
 Operating Temperature Range 0 to +70°C
 Storage Temperature Range -55 to +150°C

CRYSTAL OPERATION



Crystal Operation

AC CHARACTERISTICS

Clock Frequency f_x (XTAL/EXT, 50% Duty Cycle ±5%) 5.1 MHz
 Strobe Pulse Width, t_{PW} 150 ns
 Input Set-up Time, t_{DS} 200 ns
 Input Hold Time t_{DH} 50 ns
 Strobe to new Frequency Delay (@f_x = 5.0 MHz) 3.5 μs

TABLE 1

REFERENCE FREQUENCY = 5.068800MHz

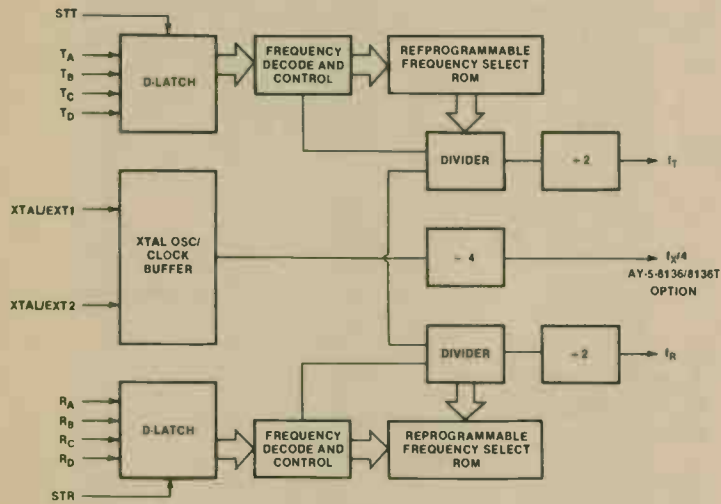
Divisor Select DCBA	Desired Baud Rate	Clock Factor	Desired Frequency (kHz)	Divisor	Actual Baud Rate	Actual Frequency (kHz)	Deviation
0000	50.00	16X	0.80000	6336	50.00	0.800000	0.0000%
0001	75.00	16X	1.20000	4224	75.00	1.200000	0.0000%
0010	110.00	16X	1.76000	2880	110.00	1.760000	0.0000%
0011	134.50	16X	2.15200	2355	134.52	2.152357	0.0166%
0100	150.00	16X	2.40000	2112	150.00	2.400000	0.0000%
0101	300.00	16X	4.80000	1058	300.00	4.800000	0.0000%
0110	600.00	16X	9.60000	528	600.00	9.600000	0.0000%
0111	1200.00	16X	19.20000	264	1200.00	19.200000	0.0000%
1000	1800.00	16X	28.80000	176	1800.00	28.800000	0.0000%
1001	2000.00	16X	32.00000	158	2005.06	32.081013	0.2532%
1010	2400.00	16X	38.40000	132	2400.00	38.400000	0.0000%
1011	3600.00	16X	57.60000	88	3600.00	57.600000	0.0000%
1100	4800.00	16X	76.80000	66	4800.00	76.800000	0.0000%
1101	7200.00	16X	115.20000	44	7200.00	115.200000	0.0000%
1110	9600.00	16X	153.60000	33	9600.00	153.600000	0.0000%
1111	19200.00	16X	307.20000	16	19800.00	316.800000	3.1250%

REFERENCE FREQUENCY = 4.915200MHz

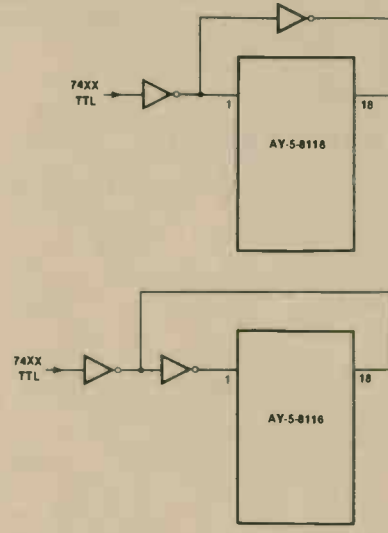
Divisor Select DCBA	Desired Baud Rate	Clock Factor	Desired Frequency (kHz)	Divisor	Actual Baud Rate	Actual Frequency (kHz)	Deviation
0000	50.00	16X	0.80000	6144	50.00	0.800000	0.0000%
0001	75.00	16X	1.20000	4096	75.00	1.200000	0.0000%
0010	110.00	16X	1.76000	2793	109.93	1.758983	0.0100%
0011	134.50	16X	2.15200	2284	134.50	2.152000	0.0000%
0100	150.00	16X	2.40000	2048	150.00	2.400000	0.0000%
0101	300.00	16X	4.80000	1024	300.00	4.800000	0.0000%
0110	600.00	16X	9.60000	512	600.00	9.600000	0.0000%
0111	1200.00	16X	19.20000	256	1200.00	19.200000	0.0000%
1000	1800.00	16X	28.80000	171	1796.49	28.743859	0.1949%
1001	2000.00	16X	32.00000	154	1994.81	31.916883	0.2597%
1010	2400.00	16X	38.40000	128	2400.00	32.000000	0.0000%
1011	3600.00	16X	57.60000	85	3614.11	57.825882	0.3921%
1100	4800.00	16X	76.80000	64	4800.00	76.800000	0.0000%
1101	7200.00	16X	115.20000	43	7144.19	114.306976	0.7751%
1110	9600.00	16X	153.60000	32	9600.00	153.600000	0.0000%
1111	19200.00	16X	307.20000	16	19200.00	307.200000	0.0000%

AY-5-8116 276-1795

BLOCK DIAGRAM



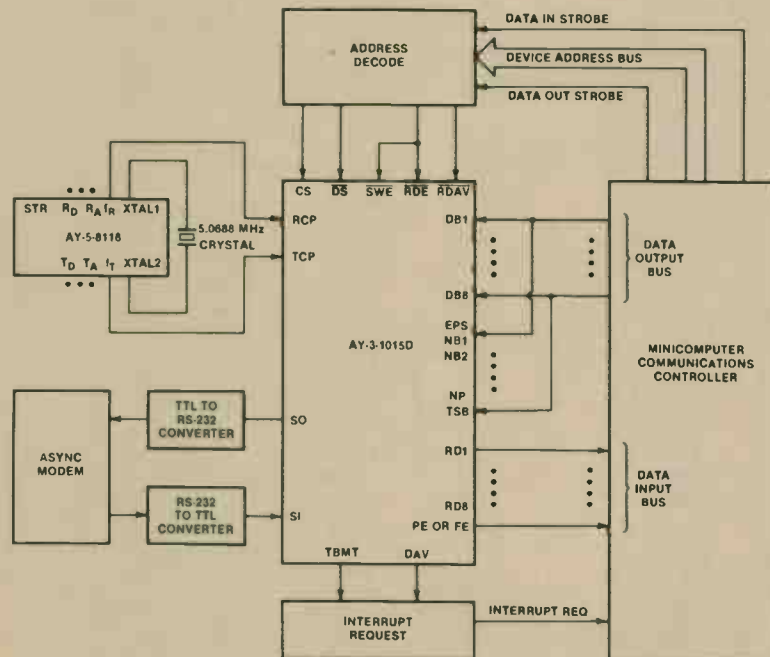
EXTERNAL INPUT OPERATION



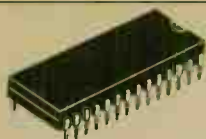
74XX totem pole or open collector output (external pull-up resistor required)

External Input Operation

TYPICAL APPLICATION



Minicomputer Interface
AY-3-1015D UAR/T + AY-5-8116
Dual Baud Rate Generator



TUNES SYNTHESIZER

AY-3-1350

276-1782

GENERAL DESCRIPTION

The AY-3-1350 is an N-channel MOS microcomputer based synthesizer of pre-programmed tunes for applications in toys, musical boxes, and doorchimes. The standard device has a set of 25 different popular and classical tunes chosen for their international acceptance. In addition there are 3 chimes making a total of 28 tunes.

The chip is mask-programmable during manufacture enabling the quantity user to select his own music. Up to 28 tunes of varying length can be chosen.

The device has multi-mode operation making it suitable for a wide variety of applications.

FEATURES

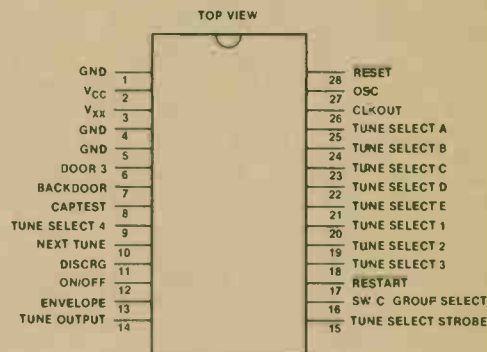
- 25 different tunes plus 3 chimes
- Mask programmable with customer specified tunes for toys, musical boxes, etc.
- Minimal external components
- Automatic switch-off signal at end of tune for power savings
- Envelope control to give organ or piano quality
- Sequential tune mode
- 4 door capability when used as doorchime
- Operation with tunes in external PROM if required
- Single supply (+5V) operation

TUNES

The standard AY-3-1350 contains the following tunes:

A0 Toreador	A3 O Sole Mio
B0 William Tell	B3 Santa Lucia
C0 Hallelujah Chorus	C3 The End
D0 Star Spangled Banner	D3 Blue Danube
E0 Yankee Doodle	E3 Brahms' Lullaby
A1 John Brown's Body	A4 Hell's Bells
B1 Clementine	B4 Jingle Bells
C1 God Save the Queen	C4 La Vie en Rose
D1 Colonel Bogey	D4 Star Wars
E1 Marseillaise	E4 Beethoven's 9th
A2 America America	
B2 Deutschland Leid	
C2 Wedding March	Chime X Westminster Chime
D2 Beethoven's 5th	Chime Y Simple Chime
E2 Augustine	Chime Z Descending Octave Chime

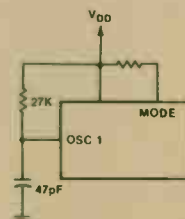
PIN CONNECTION



ABSOLUTE MAXIMUM RATINGS

Primary Supply Voltage, V _{DD}	7V
Output Buffer Supply Voltage, V _{XX}	9V
Primary Supply Current (No Load), I _{DD}	55mA
Output Buffer Supply Current (No Load), I _{XX}	5mA
Logic Input Low Voltage, V _{IL}	0.8V
Logic Input High Voltage (Note 2), V _{IH1}	V _{DD} V
(Except RESET and OSC when driven externally)	
Logic Input High Voltage, V _{IH2}	V _{DD} V
(RESET and OSC)	
Logic Output High Voltage (Note 2), V _{OH} (I _{OH} = 100μA)	2.4V
Logic Output Low Voltage, V _{OL} (I _{OL} = 1.6μA, V _{XX} = 4.5V)	0.45V
(I _{OL} = 5mA, V _{XX} = 9V)	0.90V
(I _{OL} = 5mA, V _{XX} = 9V)	0.50V
(I _{OL} = 10mA, V _{XX} = 9V) (Note 1)	0.90V
Operating Temperature	0 to 70°C

TEST CIRCUIT



Test Circuit

Notes: 1. Total I_{OL} for all registers must be less than 150mA under any conditions.
 2. Except following pins which have open drain outputs/inputs: 6, 7, 8, 12 and 13.

AY-3-1350 276-1782

TYPICAL APPLICATIONS

Implementation

There are many ways to connect the standard device depending on the exact application. Figure 1 shows just one implementation of the device in a doorchime. This circuit gives access to all 25 tunes from switch A and one of 5 tunes from switch C as well as the descending active chime from switch B. The tune selected for switch B follows the tunes list according to the setting of the two tune select switches (A-E and 0-4). The tune selected from switch C in Figure 1 is one of the five tunes A0 through E0 depending on the setting of the letter switch. For example, with the letter switch set at E and the number switch set at 4, the tunes available will be:

- Switch A: Beethoven's 9th (E4)
- Switch C: Yankee Doodle (E0)
- Switch B: Descending Octave Chime (Chime Z)

When the letter switch is in position F there will be chimes on all doors independent of the number switch setting as follows:

- Switch A: Westminster Chime
- Switch C: Simple Chime
- Switch B: Descending Octave Chime

There is virtually no power consumption in the standby condition (external transistor leakages only). When any door switch is activated the circuit powers up, plays a tune, and then automatically powers down again to conserve the battery, even if the operator keeps his finger on the switch to the end of the tune. He must release it and re-press to play again with the circuit in Figure 1. Activating any of the door switches will pull point A to ground turning on the PNP transistor in the power supply line. This causes +5V to be applied to the AY-3-1350 and the first operation of the chip is to put ON/OFF (pin 12) to logic 0. This maintains the power through the PNP, even after the switch is released. The device can turn off its own power at the end of a tune by raising ON/OFF to logic 1.

Figure 1 shows only a typical one-chip implementation. Further options come from use of different switching and/or from use of the next tune facilities built into the chip. These will now be considered in turn.

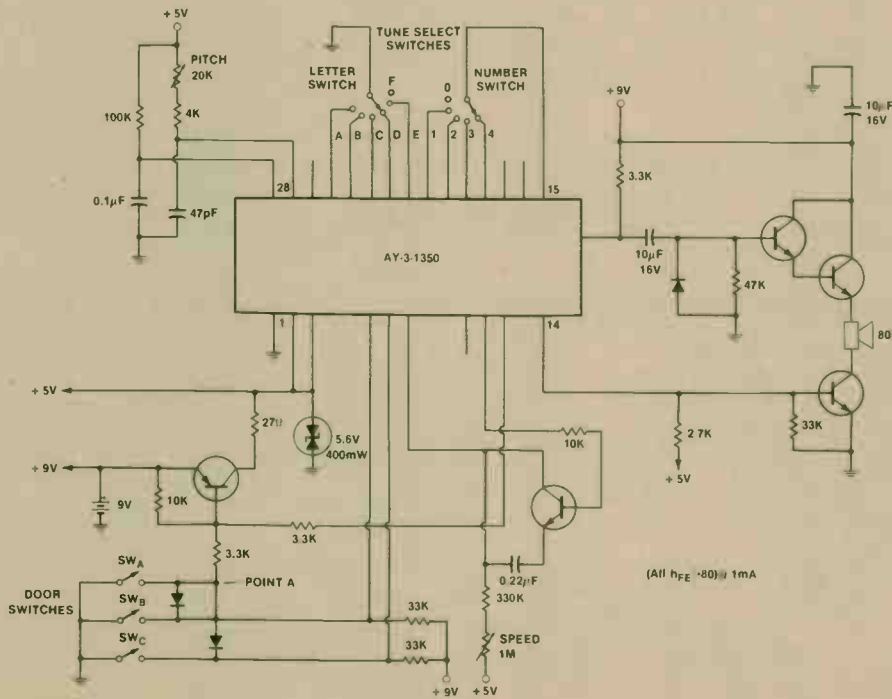


Figure 1—System Diagram

TYPICAL APPLICATIONS (Cont'd)

Switching Options

In Figure 1 the Switch C Group Select pin (16) is not connected, and one of the five tunes (A0 through E0) will play if switch C is activated. Other number groups can be chosen by connecting the Switch C Group Select pin as follows:

Switch C Group Select pin (16) is connected to:	Switch C Tunes
no other pin	A0-E0
Tune Select 1 (pin 20)	A1-E1
Tune Select 2 (pin 19)	A2-E2
Tune Select 3 (pin 18)	A3-E3
Tune Select 4 (pin 9)	A4-E4

Which of the five possible switch C tunes will be played depends on the current setting of the LETTER SWITCH A-E.

Switch C selection can be made by hard-wire connection for a permanent selection or a third switch can be added for an additional group selection feature.

LED Direct Drive

V_{XX} drives the gate of the output buffer, allowing adjustment of drive capability:

V _{XX}	V _{OUT}	I _{SINK} (typ.)
5V	0.4V	2.5mA
5V	0.7V	4.2mA
10V	0.4V	5.8mA
10V	0.7V	10.0mA
10V	1.0V	14.1mA

Using the power-up circuit of Figure 1, the AY-3-1350 will have +5V applied and be latched within a few microseconds (dependant upon external components) from any bell-push closing. The device starts to operate when the RESET pin reaches logic 1 (about 10ms with components shown) but in fact the tune select switches are not interrogated until approximately 6 ms later. The total is sufficient for most bell-pushes to complete any bounce period and for a firm selection of tunes to be made.

Next Tune Facilities

At the end of tune play the circuit of Figure 1 powers down because ON/OFF (pin 12) is raised to a logic 1. This simplified flow diagram in Figure 3 shows that before the power down there is a test for connection between NEXT TUNE (pin 10) then RESTART (pin 17) with TUNESELECT 4 (pin 9). At this time NEXT TUNE (pin 10) then RESTART (pin 17), which is normally at logic 1, output a logic 0. This is looked for at input TUNESELECT 4 (pin 9). If neither is found the power down system is reached as in Figure 1.

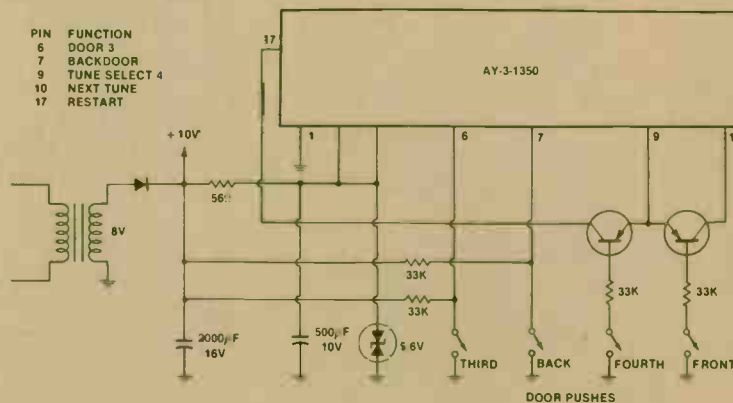


Figure 2

AY-3-1350 276-1782

TYPICAL APPLICATIONS (Cont'd)

A NEXT TUNE (pin 10)—TUNE SELECT 4 (pin 9) connection at the moment of test causes the next tune in the list to be played after a short pause (equal to a musical breve—the actual time depends on the setting of the tune speed control). The order of the tunes is A0 to E4 as given in the listing of standard AY-3-1350 tunes. If the last tune (E4) was played then the circuit will go on to play the first tune A0 (and then successive ones). The chimes are not included in the cycling sequence.

A RESTART (pin 17)—TUNESELECT 4 (pin 9) connection at the moment of test at the end of a tune causes the same selected tune to be played again. Figure 3 shows that in this case the tune sensing mechanism is passed through once more so the tune would be different the second time if the switches were altered while the first tune was playing.

The connections referred to cannot be permanent because otherwise the circuit would never stop playing tunes. Figure 2 shows how transistors are used to make the connection in a practical application.

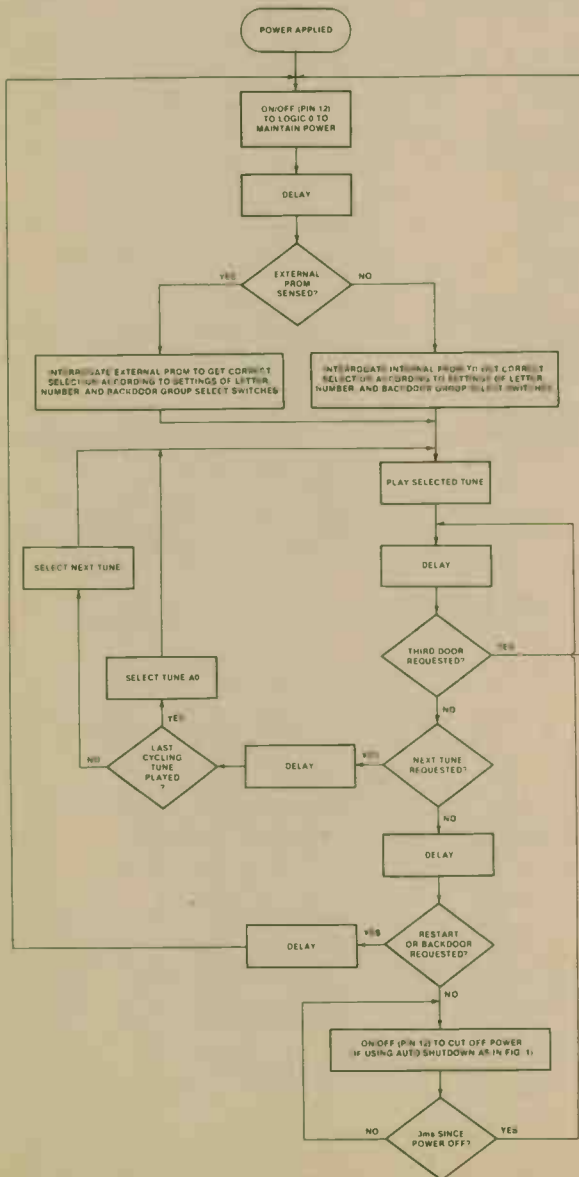


Figure 3—Flow Diagram



SPEECH PROCESSOR

SP0256
276-1783

GENERAL DESCRIPTION

The SP0256 (speech processor) is a single chip N-channel MOS LSI device that is able, using its stored program, to synthesize speech or complex sounds.

The achievable output is equivalent to a flat frequency response ranging from 0 to 5kHz, a dynamic range of 42dB, and a signal to noise ratio of approximately 35dB.

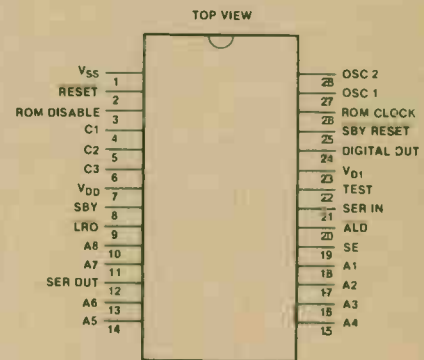
The SP0256 incorporates four basic functions:

1. A software programmable digital filter that can be made to model a VOCAL TRACT.
2. A 16K ROM which stores both data and instructions (THE PROGRAM).
3. A MICROCONTROLLER which controls the data flow from the ROM to the digital filter, the assembly of the "word strings" necessary for linking speech elements together, and the amplitude and pitch information to excite the digital filter.
4. A PULSE WIDTH MODULATOR that creates a digital output which is converted to an analog signal when filtered by an external low pass filter.

FEATURES

- Natural speech
- Stand alone operation with inexpensive support components
- Wide operating voltage
- Word, phrase, or sentence library, ROM expandable
- Expandable to 491K of ROM directly
- Simple interface to most microcomputers or microprocessors
- Supports L.P.C. synthesis: formant synthesis: allophone synthesis

PIN CONNECTION



PIN FUNCTIONS

Pin Number	Name	Function
1	V _{SS}	Ground
2	RESET	A logic 0 resets the SP. Must be returned to a logic 1 for normal operation.
3	ROM DISABLE	For use with an external serial speech ROM. A logic 1 disables the external ROM.
4,5,6	C1, C2, C3	Output control lines used by an external serial speech ROM.
7	V _{DD}	Primary power supply.
8	SBY	STANDBY. A logic 1 output indicates that the SP is inactive (i.e., not talking) and V _{DD} can be powered down externally to conserve power. When the SP is reactivated by an address being loaded, SBY will go to a logic 0.
9	LRQ	LOAD REQUEST. LRQ is a logic 1 output whenever the Input buffer is full. When LRQ goes to a logic 0, the input port is loaded by placing the 8 address bits on A1-A8 and pulsing the ALD Input.
10,11,13,14, 15,16,17,18	A8, A7, A6, A5, A4, A3, A2, A1	8-bit address which defines any one of 256 speech entry points.
12	SER OUT	SERIAL ADDRESS OUT. This output transfers a 16-bit address serially to an external speech ROM.
19	SE	STROBE ENABLE. Normally held in logic 1 state. When tied to ground, ALD is disabled and the SP will automatically latch in the address on the input bus approximately 1μs after detecting a logic 1 on any address line.
20	ALD	ADDRESS LOAD. A negative pulse on this input loads the 8 address bits into the input port. The leading edge of this pulse causes LRQ to go high.
21	SER IN	SERIAL IN. This is an 8-bit serial data input from an external speech ROM.
22	TEST	A logic 1 places the SP in test mode. This pin should normally be grounded.
23	V _{D1}	Standby power supply for the interface logic and controller.
24	DIGITAL OUT	Pulse width modulated digital speech output which, when filtered by a 5kHz low pass filter and amplified, will drive a loudspeaker.
25	SBY RESET	STANDBY RESET. A logic 0 resets the interface logic. Normally should be a logic 1.
26	ROM CLOCK	1.56MHz clock for an external serial speech ROM.
27	OSC 1	XTAL IN. Input connection for a 3.12 MHz crystal.
28	OSC 2	XTAL OUT. Output connection for a 3.12MHz crystal.

SP0256 276-1783

APPLICATIONS

- Telecommunications
- Appliances
- Computer peripherals
- Automotive
- Personal computers
- Toys/games
- Educational aids
- Warning systems
- Security systems
- Electronic musical instruments
- Aids to the blind
- Narrow bandwidth
- Communication systems

ABSOLUTE MAXIMUM RATINGS

DC CHARACTERISTICS

Primary Supply Voltage, V_{DD} 7V
 Standby Supply Voltage, V_{D1} 7V
 Primary Supply Current, I_{DD} 90mA

Inputs

A1-A8, ALD, SERIN, TEST, SE
 Logic 0, V_{IL} 0.6V
 Logic 1, V_{IH} V_{D1} V
 Capacitance, C_{IN} 10pF
 Leakage, I_{LC} $\pm 10\mu A$

Reset, SBY Reset

Logic 0, V_{IL1} 0.6V
 Logic 1, V_{IH1} V_{D1} V

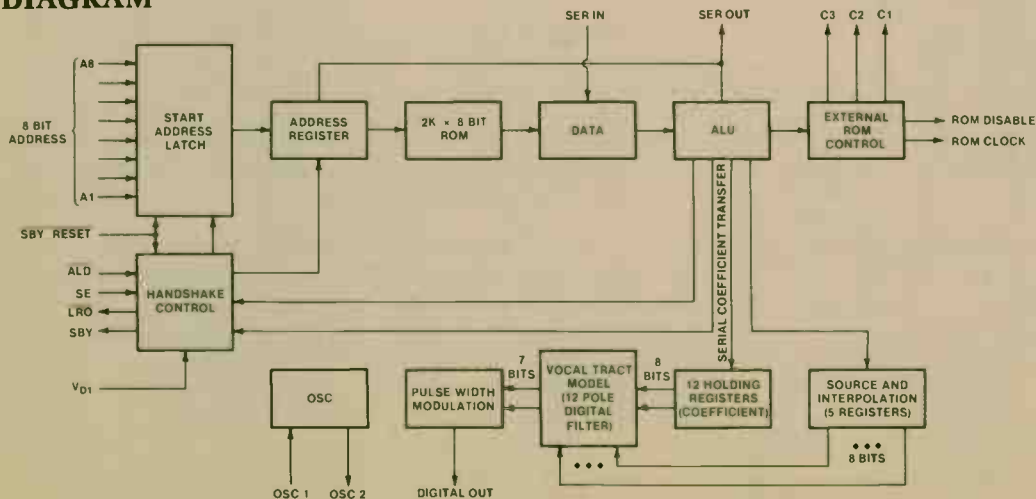
Outputs

SBY, DIGITAL OUT, C1, C2, C3, \overline{LRQ} , ROM DISABLE, ROM CLOCK, SER OUT
 Logic 0, V_{OL} [0.72mA (2 LS TTL Loads)] 0.6V
 Logic 1, V_{OM} [-50 μA (2 LS TTL Loads)] V_{D1} V

AC CHARACTERISTICS

Clock Frequency (Crystal) 3.120 MHz
 Reset, SBY Reset (t_{pw1}) 100 μs
 \overline{ALD} (< 800ns) (t_{pw2}) 200 ns
 A1-A8 Set Up (t_{s2}) 160 ns
 A1-A8 Hold (t_{h2}) 160 ns
 \overline{ALD} ($\geq 800ns$) (t_{pw3}) 800 ns
 A1-A8 Set Up (t_{s3}) 0 ns
 A1-A8 Hold (t_{h3}) 1200 ns
 \overline{LRQ} (t_{pd0}) 640 ns
 SBY (t_{pd0}) 640 ns
 Operating Temperature, T_A 0 to 70 °C

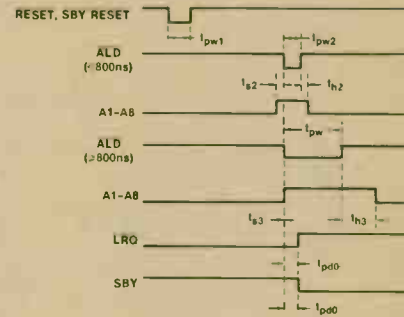
BLOCK DIAGRAM



HOUSE TALKING CLOCK SP0256
#2 VOCABULARY LIST

ADDRESS	WORD	ADDRESS	WORD
0	OH	18	EIGHTEEN
1	ONE	19	NINETEEN
2	TWO	20	TWENTY
3	THREE	21	THIRTY
4	FOUR	22	FORTY
5	FIVE	23	FIFTY
6	SIX	24	IT IS
7	SEVEN	25	A.M.
8	EIGHT	26	P.M.
9	NINE	27	HOUR
10	TEN	28	MINUTE
11	ELEVEN	29	HUNDRED HOUR
12	TWELVE	30	GOOD MORNING
13	THIRTEEN	31	ATTENTION PLEASE
14	FOURTEEN	32	PLEASE HURRY
15	FIFTEEN	33	MELODY A
16	SIXTEEN	34	MELODY B
17	SEVENTEEN	35	MELODY C

TIMING DIAGRAM

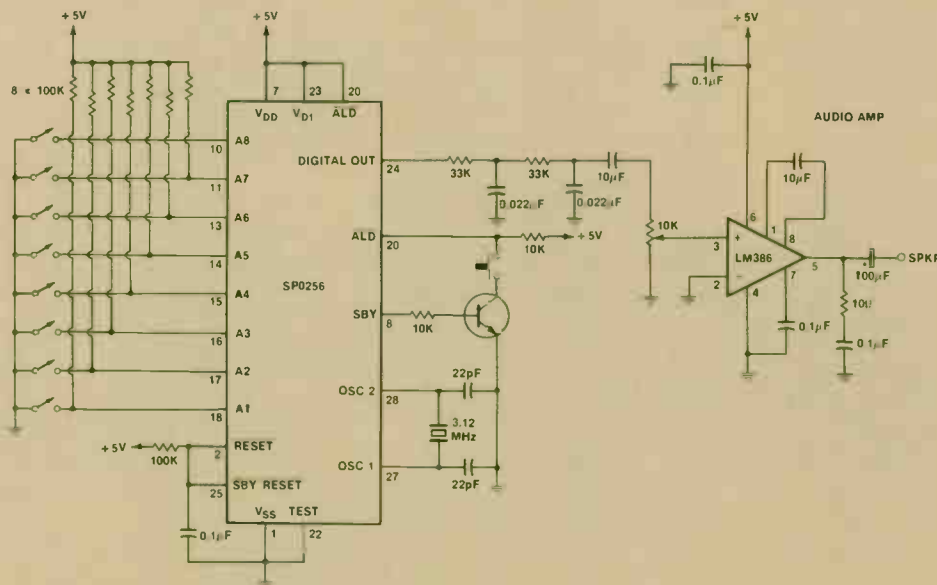


MELODY A: $\left\{ \begin{array}{l} 2/4 \\ | 3 \ 1 \ 2 \ 5 - | \ 5 \ 2 \ 3 \ 1 | \end{array} \right.$

MELODY B: $\left\{ \begin{array}{l} 2/4 \\ | 5 \ 3 | \ 1 \ 1 \ 1 \ 2 \ 3 \ 4 | \ 5 \ 5 \ 5 \ 0 | \ 3 \end{array} \right.$

MELODY C: $\left\{ \begin{array}{l} 2/4 \\ | 1 \ 5 | \ 1 \ 5 \ 3 | \ 5 \ 2 \ 3 | \ 1 \end{array} \right.$

TYPICAL APPLICATIONS



Stand Alone Configuration

277-1012

RADIO CONTROL ELECTRONIC KIT

GENERAL DESCRIPTION

This module was designed for radio control of cars, racers and boats. It can be operated in forward, forward with right turn, forward with left turn and backward. The carrier frequency is 27 MHz. The control commands are transmitted by tone pulse.

Forward—without carrier.

Forward W/right turn—carrier with 3000 Hz pulse modulation.

Forward W/left turn—carrier with 500 Hz pulse modulation.

Backward—carrier only.

There are some wires & external components that you need.

Please see External Component Requirements.

EXTERNAL COMPONENT REQUIREMENTS

Transmitter	Recommendations
Ant Transmitting antenna	0.5 meter (20 inch) length telescope antenna or steel wire.
S1 Functional switch for driving	Two poles, two throw switch (DPDT) (275-663)
S2 Functional switch for steering	Two poles, two throw switch with center off. (DPDT) (275-664)
Battery snap	For 006P 9V battery (270-325)
Receiver	Recommendations
Ant. Receiving antenna	0.3 meter (12 inch) length steel wire
M1 Steering motor	3V motor (Mabuchi motor RN-140-14180)
M2 Driving motor	3V motor (Mabuchi motor RE-280-2865)
S1 ON/OFF switch	2 poles, 2 throw slide switch (DPDT) (275-607)
Battery snap	For 006P 9V battery (270-325)
Battery holder	For two D cells 1.5V (270-386)

CONTROL INSTRUCTIONS

The receiver will respond to commands as follows:

Action	Command
Forward	ON/OFF switch of receiver is switched ON.
Forward and Right	Poles of functional switch S2 are at the "R" position
Forward and Left	Poles of functional switch S2 are at the "L" position
Backward	Poles of functional switch S1 are at the "B" position

Note: There are no steering functions while the car is being driven backward. If the system is out of command, please read the trouble shooting.

SIMPLE ADJUSTMENTS

1. Adjust L1 for best response to 27.145 MHz signal from a standard signal generator. Insert a 5 pF capacitor in series between the signal generator and receiver's antenna input.
2. Adjust L3 for maximum transmitter output power as indicated on a field strength meter.
3. Adjust L4 for proper transmitter oscillation as indicated by maximum reading on a field strength meter.

TROUBLESHOOTING

Trouble	Possible Cause	Solution
No function	Low battery voltage	Replace batteries
	Poor soldering	Checked soldering
	Wrong connection	Checked connection
	Corroded functional switch and ON/OFF switch.	Replace functional switch and ON/OFF switch
Insufficient control distance	Low battery voltage	Replace batteries
	Poor soldering for antenna Length of antennas are not suitable	Checked soldering for antenna Replace with suitable antenna.

ABSOLUTE MAXIMUM RATINGS

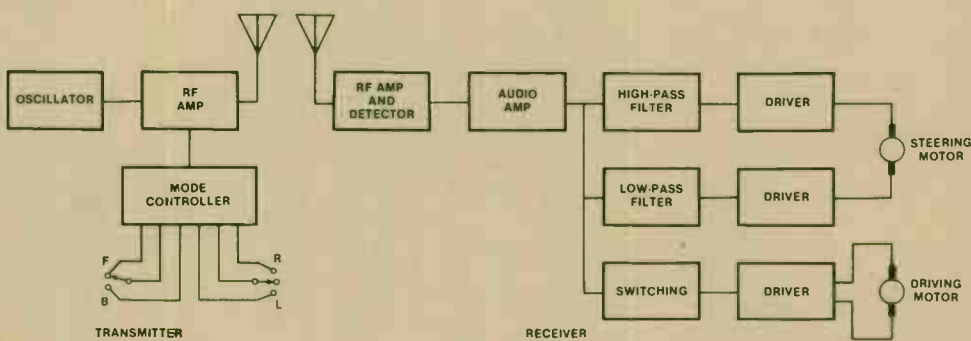
Transmitter

Frequency 27.145 MHz
 Current 17mA
 Operating Voltage 9V
 Battery Life 10 Hours

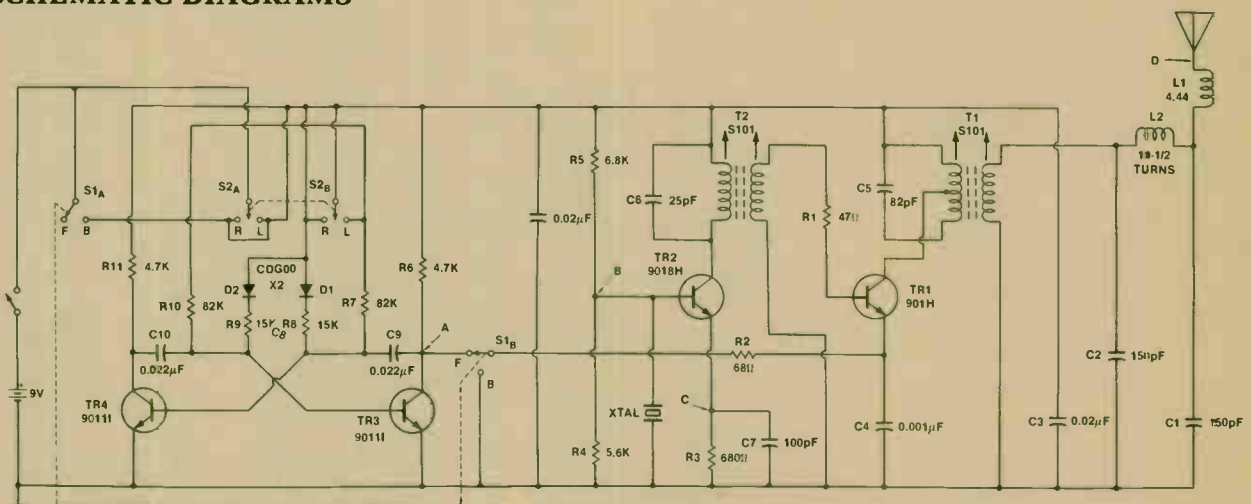
Receiver

Frequency 27.145 MHz
 Current 12mA
 Operating Voltage 9V

BLOCK DIAGRAM



SCHEMATIC DIAGRAMS



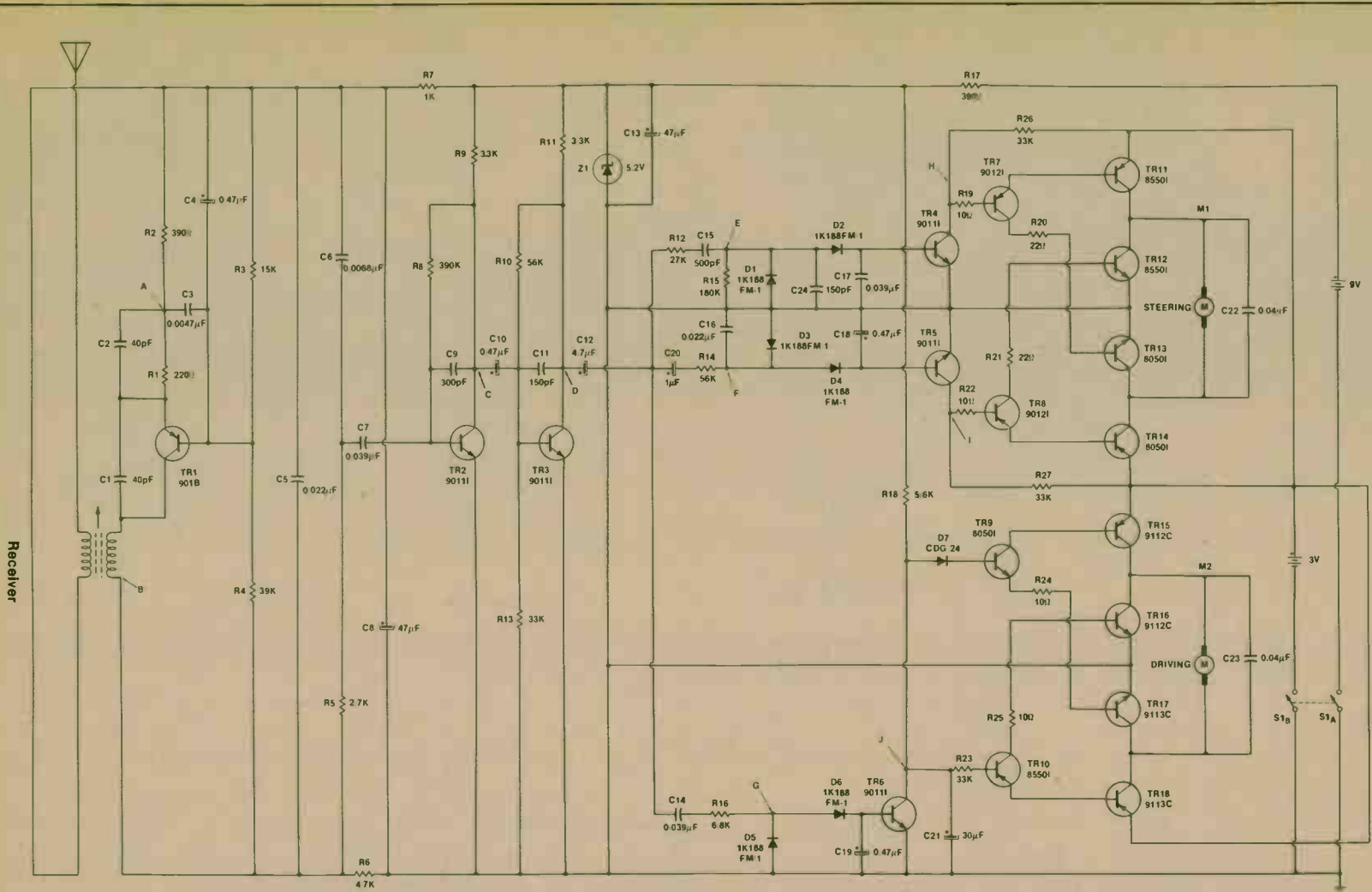
	A	B	C	D			
VOLTAGE	2.9V	2.3V	2.2V	4.0V	B = CARRIER	F&L = 500Hz	F&R = 3000Hz
WAVEFORM							

Note: All voltages are measured from ground with digital meter.

Transmitter

277-1012

SCHEMATIC DIAGRAMS (Cont'd)



Receiver

A	B	C	D	E	F	G	H	I	J
F 4.36V B 4.36V	F 1.57V B 1.59V	F 2.53V B 2.53V	B 2.53V	F&R 0.27V F 0.13V	F&L 0.03V F 0.02V	F 0.36V B 0.20V	F&R 1.7V F 3 V	F&L 1.45V F 3 V	F 0.16V B 2.83V
							All voltages are measured from ground with a digital meter and measured with signal (lower are without signal)		

IMPORTANT SUGGESTIONS ON THE USE AND REPLACEMENT OF TRANSISTORS

You can use various styles and sizes of transistors in any given circuit application, as long as the electrical characteristics of the device are within the required range of operation. Thus, a tab-type device can be used to replace a TO-3 or TO-66 case device; or a small epoxy-type device can be used in place of TO-5 or other size transistor.

Generally speaking, you must observe the following maximum characteristics of a transistor when contemplating substitution or selection:

- Power dissipation
- Maximum collector current
- Maximum collector-to-emitter voltage
- Maximum collector-to-base voltage
- Maximum emitter-to-base voltage

Also, it is useful to consider the following characteristics for actual circuit operation:

- Gain
- Frequency limitations

Caution: It may be necessary in some cases to adjust bias values to achieve required operation. With tuned circuits, it is a good practice to check alignment after replacing any transistor.

When replacing power transistors, always check driver devices to be sure they are OK. Also, check other circuit components to be sure they were not shorted (or otherwise defective) when the original device failed. If you fail to correct such problems before applying power to the circuit once again, the replacement transistor could easily be permanently damaged. Be sure to use proper heat-sink precautions and use silicon grease to reduce the thermal resistance between the case of the transistor and the heat-sink.

Always observe temperature limitations as specified with transistor ratings.

It almost goes without saying, but let us remind you anyway—

Always observe voltage polarity with all semiconductor devices.

CROSS-REFERENCE/SUBSTITUTION LISTING

Most users of semiconductors realize that it is almost impossible to guarantee absolute equivalents (as in the case of tubes). Thus, the only way to create replacement or cross-reference listings is by carefully evaluating each characteristic of both devices (original transistor and the possible alternate). This is how the Technical Staff of Radio Shack went about preparing the following cross-reference/replacement lists.

IMPORTANT NOTE

We caution you that in any cases the listed cross reference ARCHER device may be different in appearance, size or mounting style. Thus, before beginning replacement or installation procedures, check to be sure you have enough room for proper mounting.

Also, when making substitutions or replacements in radio or high frequency circuitry, it may be necessary to realign tunable circuit elements. This is true even

when making exact replacements (junction capacitances normally vary between devices even from the same production run).

Information contained in this guide is based on the latest available data and is believed to be accurate. Every care has been taken to assure technical accuracy. However, Radio Shack does not assume responsibility for any contingencies of the use of this information. Nor does Radio Shack assume any responsibility for any infringements of patents or other rights of third parties which may result from its use.

When you are looking for a specific number and it does not show up in the following listing—refer to the technical data provided for our line of ARCHER devices. With this information you probably will be able to make a suitable substitution.

ARCHER SEMICONDUCTOR REPLACEMENT GUIDE

DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
03-0021-0	1123	05-931771	1123	08P-12-12	2007	09-302072	2010	09-304058	2009	09-306154	1102	09-306367	564
03-0022	2007	05-931771	1104	09-002012	2009	09-302073	2010	09-304140	2020	09-306157	1104	09-306368	1102
03-0023-0	2007	05-932510	1123	09-010	1750	09-302074	2009	09-305006	2016	09-306158	562	09-306370	1123
03-0063-04	1102	05-933943	563	09-030214	2009	09-302074(Sharp)	2016	09-305007	2010	09-306159	1102	09-306371	033
03-034-042	1103	05-935201	1104	09-306-083	1104	09-302078	2009	09-305011	2016	09-306160	1104	09-306373	1102
03-57-001	2007	05-936470	1102	09-309-070	2016	09-302079	2010	09-305024	2023	09-306161	1102	09-306375	562
03-57-002	2007	05-990094	562	09-309-071	2020	09-302083	2020	09-305033	2010	09-306162	1104	09-306376	1104
03-57-003	2007	05A01	1102	09-30011	2007	09-302085	2016	09-305034	2009	09-306163	1102	09-306377	561
03-57-101	2007	05A03	1123	09-30012	2007	09-302086	2016	09-305036	2010	09-306165	562	09-306379	1114
03-57-102	2007	05A05	1102	09-30063	2023	09-302090	2030	09-305041	2010	09-306169	1104	09-306382	562
03-57-200	2007	05A06	1103	09-30104B	2007	09-302090(DIODE)	1102	09-305040	2016	09-306170	1102	09-306384	1104
03-57-201	2007	05A07	1104	09-30126	2007	09-302092	2010	09-305050	2058	09-306171	1102	09-306389	1104
03-57-202	2007	05B1Z	1759	09-30313	2020	09-302093	2016	09-305051	2050	09-306172	1104	09-306390	1102
03-57-301	2007	05B2B	1759	09-30318	2020	09-302095	2058	09-305052	2016	09-306176	1104	09-306391	563
03-57-302	2007	05B2D	1759	09-30501	2016	09-302097	2016	09-306050	2023	09-306177	1104	09-306394	1104
03-57-304	2007	05B2M	1759	09-30970	2016	09-302101	2009	09-305062	2009	09-306178	1102	09-306401	562
03-156B	2007	05B2Z	1759	09-32124	2010	09-302103	2010	09-305063	2009	09-306179	563	09-306417	1104
03-160	1123	05B486	2016	09-36154	1103	09-302106	2009	09-305064	2009	09-306180	562	09-306421	1104
03-460C	2010	05V-50	1104	09-300002	2007	09-302107	2016	09-305065	2009	09-306183	561	09-306422	1104
03-461B	2010	05Z5-1	565	09-300006	2007	09-302114	2010	09-305066	2009	09-306191	565	09-306424	1114
03-355A	2010	05Z5-1L	565	09-300007	2007	09-302115	2010	09-305067	2009	09-306192	1104	09-306426	1102
03-1585 G	2009	05Z6-2	561	09-300011	2007	09-302118	2009	09-305068	2009	09-306194	562	09-306427	1104
03-3016	1104	05Z9-1	562	09-300012	2007	09-302122	2041	09-305069	2010	09-306195	1102	09-306431	1104
03-931051	1123	05Z9-1L	562	09-200015	2007	09-302124	2009	09-305070	2010	09-306198	1102	09-306432	1104
03-931601	1104	05Z9-1U	562	09-300016	2007	09-302125	2016	09-305071	2010	09-306199	1102	09-306433	1104
03-931609	1104	05Z12	563	09-300017	2007	09-302127	2016	09-305072	2010	09-306200	1123	09-307039	1102
03-931642	1102	05Z15	564	09-300021	2007	09-302128	2016	09-305073	2023	09-306202	1102	09-307043	1104
03-931645	1102	07-07113	2023	09-300024	2007	09-302129	2010	09-305074	2010	09-306204	1102	09-307045	1102
03-931771	1123	07-07119	2007	09-300026	2023	09-302130	2061	09-305076	2030	09-306205	1104	09-307055	1102
03-931971	1104	07-07124	2009	09-300027	2007	09-302131	2009	09-305077	2009	09-306206	1102	09-307075	1102
03-933943	563	07-07125	2009	09-300028	2007	09-302132	2020	09-305093	2050	09-306209	1124	09-307080	1102
03A03	2009	07-07129	2058	09-300029	2007	09-302138	2010	09-305094	2050	09-306210	1124	09-307081	1102
03A04	2023	07-07139	2009	09-300036	2023	09-302139	2016	09-305096	2058	09-306211	1102	09-307083	1102
03A05	2009	07-07156	2009	09-300037	2023	09-302140	2059	09-305123	2016	09-306211(RECT)	1102	09-307084	1104
03A11	2009	07-07163	2059	09-300059	2023	09-302141	2010	09-305126	2016	09-306212(RECTIFIER)	1102	09-307085	1102
03A12	2009	07-07166	2016	09-300061	2023	09-302142	2010	09-305131	2007	09-306213	1114	09-307089	1102
04-000653	1103	07-07459	2016	09-300062	2023	09-302143	2010	09-305132	2016	09-306213	1104	09-308022	1801
04-158055-T	1103	07-1075-01	2007	09-300063	2023	09-302144	2010	09-305138	2041	09-306214	1104	09-308072	2010
04-00460-03	2009	07-1075-02	2007	09-300064	2023	09-302145	2010	09-305139	2009	09-306216	1124	09-308080	705
04-00461-02	2010	07-1077-02	2007	09-300070	2023	09-302148	2016	09-305140	2020	09-306219	1102	09-308098	1759
04-00535-02	2010	07-1156-03	2007	09-300074	2023	09-302149	2010	09-305148	2009	09-306220	1102	09-308100	1759
04-00535-06	2010	07-1458-85	2009	09-300077	2023	09-302150	2061	09-305149	2023	09-306221	1107	09-308208	561
04-01586-05	2009	07-2012-04	2007	09-300078	2007	09-302151	2010	09-305150	2061	09-306222	1123	09-309006	2050
04-01585-07	2009	07-3012-04	2007	09-300079	2007	09-302152	2010	09-305152	2009	09-306223	1102	09-309007	2010
04-01585-08	2010	07-3015-05	2007	09-300080	2023	09-302153	2009	09-306002	1123	09-306224	1104	09-309012	2009
04-02090-02	2009	07-3080-06	2007	09-300081	2023	09-302157	2055	09-306009	1123	09-306225	1114	09-309013	2010
04-57-303	2007	07-3350-57	2007	09-300084	2007	09-302162	2010	09-306010	1123	09-306226	1114	09-309015	2010
04-4600-02	2009	07-4233-19	2007	09-300090	2027	09-302164	2020	09-306012	1123	09-306227	1114	09-309023	2009
04-8054-3	1104	07-4235-13	2007	09-300307	2023	09-302165	2009	09-306020	1123	09-306231	1102	09-309024	2010
04-8054-4	1104	07-4235-73	2007	09-301001	2007	09-302171	2030	09-306024	1123	09-306232	562	09-309027	2010
04-8054-7	1104	07-5134-14	1123	09-301002	2007	09-302172	2009	09-306024(ZENER)	564	09-306233	1102	09-309028	2010
04-15805-06	2010	07-5134-14A	1123	09-301002-6	2007	09-302173	2059	09-306030	1104	09-306236	1102	09-309029	1060
04-46000-02	2058	07-5134-14B	1123	09-301003	2007	09-302174	2016	09-306034	1104	09-306239	562	09-309032	2010
04-47000-01	2023	07-5134-14C	1123	09-301004	2007	09-302175	2059	09-306034	1123	09-306241	562	09-309038	2023
04-440032-C02	2023	07-5160-15A	1124	09-301005	2007	09-302187	2055	09-306037	1123	09-306244	1103	09-309042	2823
04-440032-C08	2023	07-5160-15B	1124	09-301006	2007	09-302189	2009	09-306039	1123	09-306245	1104	09-309049	2009
04530	2023	07-5160-15C	1124	09-301007	2007	09-302190	2010	09-306040	1123	09-306247	562	09-309050	2009
04548	2009	07-5331-86	561	09-301008-18	2007	09-302191	2009	09-306042	1104	09-306248	1102	09-309059	2016
04551	2061	07-6015-16	2007	09-301009	2007	09-302194	2016	09-306042(RECTIFIER)	1104	09-306249	1104	09-309060	2009
05-00000-00	1123	07-22816-90	1103	09-301016	2007	09-302199	2016	09-306042	1104	09-306250	1104	09-309061	2059
05-00060-00	1123	07-28777-41	1759	09-301020	2007	09-302200	2059	09-306046	1104	09-306254	1104	09-309064	2009
05-00060-01	1123	07-28777-70	2023	09-301023	2007	09-302201	2016	09-306047	1123	09-306255	1104	09-309065	2058
05-000104	1104	07-28777-83	2016	09-301025	2007	09-302203	2010	09-306049	1123	09-306257	1102	09-309069	2010
05-00160-01	1123	07-28777-92	1104	09-301025-6	2007	09-302204	2009	09-306050	1104	09-306258	1104	09-309070	2016
05-001100	1104	07-28777-96	1124	09-301026	2007	09-302206	2058	09-306051	1123	09-306259	1104	09-309072	2010
05-02160-01	1102	07-28778-80	2059	09-301032	2007	09-302207	2058	09-306053	1114	09-306261	1124	09-309073	2010
05-03016-01	1104	07-28778-82	2023	09-301036	2007	09-302215	2058	09-306054	561	09-306262	1124	09-309076	2009
05-04001-02	1104	07-28815-75	2023	09-301039	2016	09-302216	2010	09-306055	1123	09-306263	1104	09-309171	1102
05-040004	1104	07-28815-76	2023	09-301048	2007	09-302220	2010	09-306058	561	09-306264	1104	09-309672	2010
05-040006	1104	07-28815-77	2023	09-301056	2007	09-302224	2058	09-306059	1104	09-306266	1102	09-3002006	2058
05-18155	1102	07-28815-82	2058	09-301072	2007	09-302225	2058	09-306060	1102	09-306270	1123	09-3060111	1102
05-110442	1102	07-28815-83	2058	09-301074	2007	09-302227	2009	09-306061	1123	09-306274	1114	09A02	1758
05-112406	1114	07-28815-84	2009	09-301077	2027	09-302236	2020	09-306062	1102	09-306275	562	09L-4	2087
05-123103	1104	07-28815-86	2059	09-302002	2058	09-302238	2055	09-306					

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-		
016812	2009	020-1111-007(SCOTT)	2041	027-000306	1104	070-041	1114	0104-0013	2030	0140-6	2009	030538	2009
0168810	2009	020-1111-008	2041	027-000312	1104	070-047	1102	0104-0013-6438	2030	0140-8	1104	030539-1	2041
0168812	2009	020-1111-008	2041	030	1114	072-1	1102	0110	1104	0140-9	1104	030542	2009
017E824	2009	020-1111-008(SCOTT)	2041	031	1114	074-3	2007	0110-0011	1104	0142	2010	030542-1	2009
018-00001	2023		2041	031-025-0	2009	074-3-12-7	2007	0110-0141	1104	0154	1000	030543	2009
018-00002	2023	020-1111-009	2043	031A	2009	078-0016	1104	0110-0141/4460	1104	0234	1104	030543-1	2009
018-00003	2009	020-1111-018	2030	032	1114	078-1696	1104	0110-0141-6438	1104	0244	1104	030543-2	2009
018-00006	1104	020-1111-019	2041	033-3	2030	078-2400	1104	0110-0209	1104	0248	1104	030548	2009
018-00007	1104	020-1111-038	2030	033-31(SYLVANIA)	2009	078-5001	1104	0110-0209-6438	1104	0300	1104	030828	2016
018-00008	1104	020-1111-080	2043	033A	2016	082	1759	0111	1104	0301	1104	030930	2058
018-00009	1104	020-1112-001	2009	034-001-0	1123	082-1	1759	0112	1104	0301-3055-00	2041	031033	1123
018-0008	1104	020-1112-001(SCOTT)	2009	034-032-0	1103	082A	1759	0112-0019	1123	0302	1104	031034	1104
018-0009	1104		2030	034A	2061	082A(PACKARDBELL)		0112-0026	1123	0304	1104	031040	1123
018B	2010	020-1112-003	2016	035	1114		1759	0112-0028	1123	0307	1114	031450	1143
019-00009	2009	020-1112-004	2010	037	2009	082.115.015	2023	0112-0028/4460	1123	0310	1104	033370	1101
019-00010	2009	020-1112-004(SCOTT)	2009	038	2030	083A(PACKARD-BELL)		0112-0028/5462	1123	0311	1104	033421	1101
019-001918	1123		2009	041	2009		2020	0112-0028-6438	1123	0312	1104	033549	1101
019-001980	1123	020-1114-015	007	042	2009	085	2041	0112-0037	1123	0314	1104	033563	2016
019-002718	1123	021	2030	044-9667-02	2009	086-005132-02	2009	0112-0037-6438	1123	0317	1114	033589	2023
019-002935	1104	021-0121-00	2009	045-1	2010	088-2	1114	0112-0046	1123	0320	1104	037085	2041
019-002964	1102	021-0137-00	2030	045-1(SYLVANIA)	2010	088B	2007	0112-0073	1123	0321	1104	040001	2010
019-003315	2007	022	1102	045-2	2010	088B-12	2007	0112-0082	1123	0322	1104	041001	2023
019-003324	2007	022-006500	2009	045-2(SYLVANIA)	2010	088B-12-7	2007	0113-0036/4460	1123	0324	1104	041200-30110	1102
019-003342	2007	022-009600	2009	046-0134	1102	088C	2007	0114-0017	562	0327	1114	041616	1102
019-003343	2007	022-0163-00	1103	046-0909	1102	088C-12	2007	0114-0090	562	0400	1104	043001	2010
019-003349	2030	022-1110-005C	2023	047(DIODE)	1102	088C-12-7	2007	0114-0090-6438	562	0401	1104	043328	2007
019-003420	1104	022-2823-001	1114	050-0011-00	1104	089-214	2010	0121	2009	0402	1104	053480	2016
019-003637	2030	022-2823-002	562	051-0003	1102	089-215	2010	0122-0028-6438	1123	0410	1104	053492	2009
019-003675-196	2009	022-2823-003	1123	051-0006	1104	089-216	2010	0124(KNIGHT)	2023	0411	1104	055210H	1104
019-003675-203	2009	022-2823-004	1102	051-0003	1102	089-220	2007	0124A	2023	0412	1104	055228	1114
019-003675-205	2016	022-2823-005	1103	051-0016-00	1104	089-222	2007	0125	2009	0415	2020	055228H	1114
019-003675-207	2009	022-2823-006	1123	051-0020	1102	089-223	2009	0126	2009	0450	1104	055269	1114
019-003675-231	2023	022-2823-007	1123	051-0021-00	1758	089-226	2009	0127	2009	0460	1104	057001	1123
019-003675-232	2023	022-2823-008	1123	051-0024	562	089-236	1123	0128	2009	0500	1102	057001H	1123
019-003675-234	2023	022-2823-011	1104	051-0046	2009	089-241	1102	0130	2030	0557-010	1104	057005	1123
019-003675-246	2009	022-2876-003	2009	051-0047	2009	089-248	1123	0131	2009	0575-005	1123	057005H	1123
019-003675-257	2023	022-2876-004	2023	051-0049	2010	089-293	1123	0131-000100	2007	0700	1104	057019H	1123
019-003676-334	1103	022-2876-007	2009	051-0055-02	705	090A64-1	1123	0131-000101	2007	0701	1104	057293	1102
019-003777	2007	022-3504-040	2007	051-0055-03	705	094-007	1103	0131-000102	2007	0702	1104	057500	1102
019-003778	2007	022-3504-060	2007	051-0055-0203	705	094-010	1104	0131-000335	2023	0703	2010	059395	1123
019-003870-013	1104	022-3505-910	2007	051-0062	2007	094-011	1114	0131-000418	2007	0704	1104	061366	2007
019-003870-020	1104	022-3511-770	2007	051-0063	2007	094-014	1123	0131-000419	2007	0707	1114	062971	1000
019-003929	2010	022-3511-780	2007	051-0079	2007	098-1	1104	0131-000473	2009	0710	1104	071964-001	2000
019-003931	2023	022-3511-790	2007	051-0107	2023	098G1219	1114	0131-000498	2007	0727-50	1104	075005	1123
019-003932	2009	022-3516-380	2007	051-0107B	2023	098G1219	1114	0131-000561	2030	0731	2030	080001	2007
019-003934	2009	022-3640-080	2010	051-0155	2009	099-1	2020	0131-000563	2007	0776-0160	2009	080003	2007
019-004094	2016	022-3901-001	1123	052	2060	099-1(PHILCO)	2020	0131-000704	2009	0776-0195	2023	080004	2007
019-004111	2009	022-3902-001	1123	052A	2060	099-1(SYL)	2020	0131-000802	2007	0831	2023	080006	2010
019-004428-002	2009	022-3905-001	1104	054	2009	0100	1104	0131-000859	2007	01122-0073	1123	080021	2010
019-004558	2023	022-5311-770	2007	055	2009	0101	1102	0131-000862	2007	01339	1104	080022	2010
019-005006	2009	022-5311-780	2007	056	2023	0101-0034	2007	0131-000863	2007	03008-1	2009	080023	2010
019-005010	2023	022-5311-798	2007	057	2009	0101-0060A	2010	0131-00026	1104	03500	1123	080026	2007
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019-005179	2023	022D	1104	065-004	2009	0101-0540	2009	0131-001182	2007	04170	1171	080041	2010
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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0517132	1102	0573486H	2009	06120063	2009	0522.3902-001	1123	1/47M.1AZ5	565	1-21-190	2007	1-DI-007	1102
0517133	1102	0573487	2009	06120073	2009	0522.3905-001	1104	1/4A9.1	562	1-21-191	2007	1-DI-009	1123
0517550	1104	0573487H	2009	06120085	2009	05-90	1123	1/4A9.1A	562	1-21-192	2007	1-RE-004	1104
0517550-3	1104	0573490	2009	06120087	2016	05133.0008T	2023	1/4A9.1B	562	1-21-225	2007	1-TD-2684	2007
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0531016	2007	0573510	2010	06200017	1123	.4T9.1B	562	1/4LZ6.2D	561	1-21-241	2007	1A0033	2009
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0537640	1104	0573517	2030	06200048	1103	.4T15A	564	1/4M5.1AZ5	565	1-21-246	2007	1A0043	2009
0537640(DIO)	1104	0573518	2007	06200051	1104	.4T15B	564	1/4M5.1AZ10	565	1-21-254	2007	1A0044	2010
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0552010	1104	0573562	2041	06200096	1123	.5E6	1104	1/4Z12T5	563	1-21-267	2007	1A0059	2020
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0563012H	2007	0573607	2010	06200102	1104	.5E8	1114	1/4Z15D10	564	1-21-273	2007	1A0066	2030
0570519	1123	0573742	2007	06200103	1104	.5E10	1114	1/4Z15T5	564	1-21-274	2007	1A0067	2009
0573001	2007	0573981	2009	06200104	1104	.5J05	1104	1/2Z5.1T5	565	1-21-275	2007	1A0070	2009
0573001-14	2007	0575001	1123	06200105	1104	.5J1	1104	1/2Z15T5	564	1-21-276	2009	1A0076	2009
0573001H	2007	0575001H	1123	06200106	1104	.5J2	1104	1.2Z276.5T5	562	1-21-277	2009	1A0077	2009
0573002	2007	0575002	1123	06200107	1114	.5J3	1104	3/4T12D5	563	1-21-278	2009	1A0078	2009
0573003	2007	0575002AH	1123	06200115	1102	.5J4	1104	3/4Z12D5	563	1-21-279	2009	1A0079	2009
0573003H	2007	0575002H	1123	06200116	1102	.5J5	1104	3/4Z12D10	563	1-21-289	2007	1A0080	2009
0573004	2007	0575004	1123	06200117	1102	.5J6	1104	1	2023	1-101	1104	1A0081	2009
0573005	2007	0575005	1123	06300069	1159	.5J7	1114	1/042/2207	2009	1-425-636	1123	1A0083	2009
0573005-14	2007	0575005H	1123	06400001	1067	.5J8	1114	1-00004-064	1103	1-506-319	1114	1A0084	2009
0573005H	2007	0575007	1123	09301020	1107	.5J10	1114	1-00006-003	2009	1-530-012-11	1104	1A01	2030
0573011	2007	0575050	1114	09306244	1102	.7E05	1104	1-00006-007	1123	1-531-016	1104	1A03	2030
0573012	2007	0575051	1104	0A7	1123	.7E1	1104	1-00006-281	1103	1-531-027	1104	1A06	2030
0573012H	2007	0575067	1123	0A8-1	2007	.7E2	1104	1-000-099-00	1808	1-531-5-11	1104	1A07	2030
0573018	2007	0575099	1123	0A8-1-12	2007	.7E3	1104	1-0002-001	1103	1-531-105	1104	1A8-1A82	2007
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0573023	2007	0576054(SW)	1102	0A70	1123	.7E7	1114	1-0006-0023	2023	1-531-106-13	1104	1A12MA	563
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0573023H	2007	0820220	2009	0A81	1123	.7E10	1114	1-00038-008	1103	1-531-105-13	1104	1A15MA	564
0573024	2007	01310131-0035	1104	0A90	1123	.7J05	1104	1-001/2207	1102	1-534-105-13	1104	1A17	2030
0573024-14	2007	02600043	1123	0A90G	1123	.7J1	1104	1-001-003-15	2009	1-534-106-13	1104	1A18	2030
0573025	2007	0A000655-1	1103	0A90LF	1123	.7J2	1104	1-002	2041	1-801-003	2009	1A34	2030
0573034	2007	0A040751-001	1740	0A90M	1123	.7J3	1104	1-003	2041	1-801-003-12	2010	1A34R	2030
0573036	2007	0A410025-001	1103	0A90MALF	1123	.7J5	1104	1-014/2207	1102	1-801-003-13	2010	1A35	1103
0573036H	2007	0A410025-005	1103	0A90Z	1123	.7J6	1104	1-016	1123	1-801-003-14	2010	1A50	1104
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0573066	2009	0A440028-001	2009	0A91	1123	.7J8	1114	1-034/2207	2023	1-801-004	2009	1A348	2030
0573103	2007	0A440028-002	2009	0A99	1123	.7J10	1114	1-035/2207	2030	1-801-004-17	2009	1A348R	2009
0573114	2007	0A440028-003	2009	0A126/12	563	.7JZ9.1	562	1-037/2207	1123	1-801-005-23	2007	1A4757-1	1104
0573114H	2007	0A440028-006	2009	0A180	1123	.7JZ12	563	1-041/2207					

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1B05	1171	1E15Z10	564	1E11-A	1114	1N23GR	1124	1N66A	1123	1N151	1104	1N321A	1114
1B05J05	1171	1E535A	2058	1E11-B	1114	1N23H	1124	1N67	1123	1N152	1104	1N322	1114
1B05J20	1104	1E535A/7825B	2058	1E11-C	1114	1N23WD	1124	1N67A	1123	1N153	1104	1N322A	1114
1B05J40	1104	1E535B	2010	1E11-D	1114	1N23WDM	1124	1N67D	1123	1N158	1104	1N323	1104
1B06	2041	1E702	1104	1E11-K	1114	1N23WE	1124	1N68	1123	1N169	1104	1N323A	1104
1B08T05	1171	1E705	1104	1E11-L	1114	1N23WEM	1124	1N68A	1123	1N172	1124	1N324	1104
1B08T10	1171	1E71	1104	1E11-OR	1114	1N23WFM	1124	1N69	1123	1N173	1124	1N324A	1104
1B1	1171	1E72	1104	1E11-Y	1114	1N23WGM	1124	1N69A	1123	1N191	1123	1N325	1104
1B2Z1	1104	1E73	1104	1E11A	1114	1N23WGM	1124	1N70	1123	1N192	1123	1N325A	1104
1B4	1173	1E74	1104	1E11B	1114	1N25	565	1N70A	1123	1N193	1104	1N326	1104
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1B759	563	1E76	1104	1E11D	1114	1N31A	1123	1N72	1123	1N194A	1102	1N327	1104
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1BZ61	1104	1E710	1114	1E11R	1114	1N34AM	1123	1N74	1123	1N196	1102	1N328A	1114
1BZ61-A	1104	1EZ5.1	565	1E11Y	1114	1N34A5	1123	1N75A	1123	1N198	1123	1N329	1114
1BZ61-B	1104	1EZ9.1	562	1F11	1114	1N34A-Z	1123	1N76	1123	1N198A	1123	1N329A	1114
1BZ61-C	1104	1EZ12	563	1LZ61	1114	1N34G	1123	1N76A	1123	1N198B	1123	1N329A	1102
1BZ61-D	1104	1EZ15	564	1LZ61-A	1114	1N34GA	1123	1N76C	1123	1N200	1102	1N331	1102
1BZ61-K	1104	1F05	1104	1LZ61-B	1114	1N34Z	1123	1N76G	1123	1N200AR	1102	1N350	1102
1BZ61-L	1104	1F2	1104	1LZ61-C	1114	1N35	1123	1N81	1123	1N201	1102	1N351	1102
1BZ61-OR	1104	1F8	1114	1LZ61-D	1114	1N36	1123	1N81A	1123	1N202	1102	1N352	1102
1BZ61-Y	1104	1F10	1114	1LZ61-K	1114	1N38	1123	1N82	1124	1N203	1102	1N354	1104
1C0009	1104	1F14A	1104	1LZ61-L	1114	1N38A	1123	1N82A	1124	1N203CA	1102	1N355	1123
1C0017	1102	1FM2	1104	1LZ61-OR	1114	1N38B	1123	1N82AD	1124	1N204	1102	1N359A	1104
1C0025	1104	1G01	1123	1LZ61-Y	1114	1N40	1123	1N82AG	1124	1N205	1102	1N360	1104
1C0026	1104	1G02	1123	1M5.1AZ3	565	1N41	1123	1N82D	1124	1N207	1102	1N360A	1104
1C0029	1123	1G2C1	1104	1M5.1AZ10	565	1N42	1123	1N82G	1124	1N208	1102	1N361	1104
1C0031	1104	1G2Z	1104	1M5.1ZS10	565	1N43	1123	1N84	1123	1N209	1102	1N361A	1104
1C0038	561	1G2Z1	1104	1M6.2AZ10	561	1N44	1123	1N86	1123	1N210	1102	1N362	1104
1C0039	1123	1G8	1114	1M6.2ZS5	561	1N45	1123	1N86AG	1123	1N211	1102	1N362A	1104
1C03	2020	1G25	1123	1M6.2ZS10	561	1N45A	1123	1N87	1123	1N212	1102	1N363	1104
1C05	1104	1G04	1123	1M9.1Z	562	1N46	1123	1N87A	1123	1N213	1102	1N363A	1104
1C09	2020	1GA	1104	1M9.1Z5	562	1N46A	1123	1N87C	1123	1N214	1102	1N864	1114
1C1	1104	1GD2	1123	1M9.1Z10	562	1N47	1123	1N87CA	1123	1N215	1102	1N364A	1114
1C2	1104	1GD4	1123	1M9.1Z55	562	1N48	1123	1N875	1123	1N216	1102	1N365	1114
1C4	1104	1GD5X	1123	1M9.1ZS10	562	1N48A	1123	1N87T	1123	1N217	1102	1N365A	1114
1C10	1114	1GD6	1123	1M12Z	563	1N49	1123	1N88	1123	1N218	1102	1N367	1123
1C1Z2	563	1GD10	1123	1M12Z5	563	1N50	1123	1N89	1123	1N251	1102	1N367B	1123
1C1Z2A	563	1GH62	1104	1M12Z10	563	1N51	1123	1N90	1123	1N251A	1102	1N368	1104
1C14	2020	1GZ61	1104	1M12Z55	563	1N52	1123	1N90G	1123	1N252	1102	1N376	565
1C15	1759	1GZ61-A	1104	1M12ZS10	563	1N52A	1123	1N90GA	1123	1N252A	1102	1N379	1102
1C15Z	564	1GZ61-B	1104	1M15Z	564	1N54	1123	1N91	1104	1N263	1124	1N380	1102
1C15ZA	564	1GZ61-C	1104	1M15Z5	564	1N54A	1123	1N92	1104	1N265	1123	1N381	1102
1C17	1758	1GZ61-D	1104	1M15Z10	564	1N54G	1123	1N93	1104	1N266	1123	1N382	1102
1C18	1757	1GZ61-K	1104	1M15Z55	564	1N54GA	1123	1N93A	1104	1N267	1123	1N383	1102
1C26	1759	1GZ61-L	1104	1M15ZS10	564	1N56	1123	1N95	1123	1N268	1123	1N384	1102
1C-101	2060	1GZ61-OR	1104	1M383T	703	1N56A	1123	1N96	1123	1N270	1123	1N385	1102
1C-142	1759	1GZ61-Y	1104	1M753A	561	1N57	1123	1N96A	1123	1N273	1123	1N386	1102
1C202	1757	1GZ71	1104	1M2086	1104	1N57A	1123	1N97	1123	1N276	1123	1N387	1102
1C3576	2009	1HC-10F	1104	1M8513A	1104	1N58	1123	1N97A	1123	1N277	1123	1N388	1102
1C744005	2016	1HC-10R	1104	1MA4	1104	1N58A	1123	1N98	1123	1N278	1123	1N389	1102
1D08	864	1HC-15F	1104	1MJJ6.2	561	1N60	1123	1N98A	1123	1N279	1123	1N390	1102
1D098-001V-022	1102	1HC-15R	1104	1MJJ6.2A	561	1N60	1123	1N99	1123	1N281	1123	1N391	1102
1D1	1104	1HC-20F	1104	1MJJ12	563	1N60	1123	1N99A	1123	1N282	1123	1N392	1102
1D2	1104	1HC-20R	1104	1MJJ12A	563	1N60 3490	1123	1N100	1123	1N283	1123	1N393	1102
1D2Z1	1104	1HC-25F	1104	1N10	1123	1N60/4454C	1123	1N100A	1123	1N285	1123	1N394	1102
1D5.1	565	1HC-25R	1104	1N10D-4F	1104	1N60/7825B	1123	1N103	1123	1N287	1123	1N400	1104
1D5.1A	565	1HC-30F	1104	1N21	1124	1N60-I	1123	1N104	1123	1N288	1123	1N400B	1104
1D6	1104	1HC-30R	1104	1N21A	1124	1N60-FA1	1123	1N105	1123	1N289	1123	1N414B	1102
1D6.2A	561	1HC-40F	1104	1N21B	1124	1N60-M3	1123	1N107	1123	1N290	1123	1N416B	1124
1D6.2B	561	1HC-40R	1104	1N21C	1124	1N60-P	1123	1N108	1123	1N292	1123	1N417	1123
1D6.2B	561	1HC-50F	1104	1N21D	1124	1N60-S	1123	1N109	1123	1N294	1123	1N418	1123
1D6.25A	561	1HC-50R	1104	1N21DM	1124	1N60-T	1123	1N110	1124	1N294A	1123	1N419	1123
1D6.25B	561	1HC-60F	1104	1N21DMR	1124	1N60-TF1	1123	1N111	1123	1N295	1123	1N431	1102
1D8	1114	1HC-60R	1104	1N21DR	1124	1N60-Z	1123	1N112	1123	1N295A	1123	1N432	1102
1D10	1114	1HC-80F	1114	1N21E	1124	1N60A	1123	1N113	1123	1N295S	1123	1N432A	1102
1D100	1067	1HC-80R	1114	1N21EM	1124	1N60AM	1123	1N114	1123	1N295X	1123	1N432B	1102
1D101	1067	1HC-100F	1114	1N21EMR	1124	1N60B	1123	1N115	1123	1N296	1123	1N433	1102
1D102	1067	1HC-100R	1114	1N21ER	1124	1N60C	1123	1N116	1123	1N297	1123	1N433A	1102
1D103	1067	1HY40	1104	1N21F	1124	1N60D	1123	1N116A	1123	1N297A	1123	1N433B	1102
1D104	1067	1HY50	1104	1N21FM	1124	1N60F	1123	1N117	1123	1N298	1123	1N434	1102
1D261	1104	1HY80	1114	1N21FMR	1124	1N60FA1	1123	1N117A	1123	1N298A	1123	1N434A	1102
1DC1	1104	1HY100	1114	1N21FR	1124	1N60FD1	1123	1N118	1123	1N299	1124	1N434B	1102
1DG2	1123	1J1	2009	1N21G	1124	1N60FM	1123	1N118A	1123	1N299B	1124	1N435	1123
1DZ12	563	1JH11F	1104	1N21GM	1124	1N60FM1	1123	1N119	1123	1N300	1102	1N440	1104
1DZ61	1104	1JH62	1104	1N21GMR	1124	1N60FMX	1123	1N119A	1123	1N300A	1102	1N440B	1104
1DZ61-A	1104	1JL50	1104	1N21GR	1124	1N60G	1123	1N120	1123	1N300B	1102	1N441	1104
1DZ61-B	1104	1JL51	1104	1N21WD	1124	1N60GA	1123	1N120A	1123	1N301	1102	1N441B	1104
1DZ61-C	1104	1JL52	1104	1N21WDM	1124	1N60GB	1123	1N124	1124	1N301A	1102	1N442	1104
1DZ61-D	1104	1JL53	1104	1N21WE	1124	1N60M	1123	1N124A	1124	1N301B	1102	1N442B	1104
1DZ61-K	1104	1JL56	1104	1N21WEM	1124	1N60M3	1123	1N125	1123	1N303	1102	1N443	1104
1DZ61-L	1104	1JL57	1104	1N21WF	1124	1N60P	1123	1N126	1123	1N303A	1102	1N443B	1104
1DZ61-OR	1104	1JL58	1114	1N21WFM	1124	1N60R	1123	1N126A	1123	1N303B	1102	1N444	1104
1DZ61-Y	1104	1JL59	1114	1N21WG	1124	1N60S	1123	1N128	1123	1N304	1123	1N444B	1104
1E02	1104	1JL63	1114	1N21WGM	1124	1N60SD60	1123	1N128A	1123	1N305	1123	1N445	1104
1E05	1104	1JL64	1114	1N-22	1123	1N60T	1123	1N132	1123	1N306	1123	1N445B	1104
1E-1	2030	1JZ61	1114	1N22	1123	1							

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1N459M	1102	1N603A	1104	1N774A	1123	1N889	1114	1N1054	1114	1N1566A	1104	1N2072	1104
1N460	1102	1N604	1104	1N775	1123	1N890	1102	1N1055	1143	1N1567A	1104	1N2073	1104
1N460A	1102	1N604A	1104	1N776	1123	1N891	1102	1N1056	1114	1N1568A	1104	1N2074	1104
1N460B	1102	1N605	1104	1N777	1123	1N892	1102	1N1057	1114	1N1617	1143	1N2075	1104
1N461	1102	1N605A	1104	1N778	1102	1N897	1102	1N1081	1104	1N1617AR	1143	1N2075K	1102
1N461A	1102	1N606	1104	1N779	1102	1N898	1102	1N1081A	1104	1N1618	1104	1N2076	1104
1N462	1102	1N606A	1104	1N781	1123	1N899	1102	1N1082	1104	1N1619	1104	1N2077	1104
1N462A	1102	1N616	1123	1N788	1102	1N900	1102	1N1082A	1104	1N1620	1104	1N2078	1104
1N463	1102	1N617	1123	1N789	1102	1N901	1102	1N1083	1104	1N1630	1102	1N2079	1104
1N463A	1102	1N618	1123	1N789M	1102	1N902	1102	1N1083A	1104	1N1638	1102	1N2080	1104
1N464	1102	1N619	1102	1N790	1102	1N903	1102	1N1084	1104	1N1644	1141	1N2081	1104
1N464A	1102	1N622	1102	1N790M	1102	1N903/A	1102	1N1084A	1104	1N1645	1143	1N2082	1104
1N473	565	1N625	1102	1N791	1102	1N903A	1102	1N1093	1123	1N1646	1143	1N2083	1104
1N473A	565	1N625A	1102	1N791M	1102	1N903AM	1102	1N1095	1104	1N1647	1143	1N2084	1104
1N473B	565	1N625M	1102	1N792	1102	1N903M	1102	1N1096	1104	1N1648	1144	1N2085	1104
1N476	1123	1N626	1102	1N792M	1102	1N904	1102	1N1100	1104	1N1649	1144	1N2086	1104
1N477	1123	1N626A	1102	1N793	1102	1N904/A	1102	1N1101	1104	1N1650	1144	1N2088	1104
1N478	1123	1N626M	1102	1N793M	1102	1N904A	1102	1N1102	1104	1N1651	1144	1N2089	1104
1N479	1123	1N627	1102	1N794	1102	1N904AM	1102	1N1103	1104	1N1692	1104	1N2090	1104
1N480	1123	1N627A	1102	1N795	1102	1N904M	1102	1N1104	1104	1N1693	1104	1N2091	1104
1N480B	1104	1N628	1102	1N796	1102	1N905	1102	1N1104R	1104	1N1694	1104	1N2092	1104
1N482	1102	1N628A	1102	1N797	1102	1N905/A	1102	1N1105	1104	1N1695	1104	1N2093	1104
1N482A	1102	1N629	1102	1N798	1102	1N905A	1102	1N1108	1114	1N1696	1104	1N2094	1104
1N482B	1102	1N629A	1102	1N799	1102	1N905AM	1102	1N1122A	1104	1N1697	1104	1N2095	1104
1N482C	1102	1N631	1123	1N800	1102	1N905M	1102	1N1169	1104	1N1701	1104	1N2096	1104
1N483	1102	1N632	1123	1N801	1102	1N906	1102	1N1169A	1104	1N1702	1104	1N2103	1104
1N483A	1102	1N633	1102	1N802	1102	1N906/A	1102	1N1217	1104	1N1703	1104	1N2104	1104
1N483AM	1102	1N636	1123	1N803	1102	1N906A	1102	1N1217A	1104	1N1704	1104	1N2105	1104
1N483B	1102	1N636A	1123	1N804	1102	1N906AM	1102	1N1217B	1104	1N1705	1104	1N2106	1104
1N483BM	1102	1N643	1102	1N805	1123	1N906M	1102	1N1218	1104	1N1706	1104	1N2107	1104
1N483C	1102	1N643A	1102	1N806	1102	1N907	1102	1N1218A	1104	1N1707	1104	1N2108	1104
1N484	1102	1N645	1104	1N807	1102	1N907/A	1102	1N1218B	1104	1N1708	1104	1N2115	1104
1N484A	1102	1N645A	1104	1N808	1102	1N907A	1102	1N1219	1104	1N1709	1104	1N2116	1104
1N484B	1102	1N645B	1104	1N809	1102	1N907AM	1102	1N1219A	1104	1N1710	1104	1N2117	1104
1N484C	1102	1N646	1104	1N810	1102	1N907M	1102	1N1219B	1104	1N1711	1104	1N2163	562
1N485	1102	1N647	1104	1N811	1102	1N908	1102	1N1220	1143	1N1712	1104	1N2163A	562
1N485A	1102	1N648	1104	1N811M	1102	1N908/A	1102	1N1220A	1143	1N1713	563	1N2164	562
1N485B	1102	1N649	1104	1N812	1102	1N908A	1102	1N1220B	1143	1N1730	1114	1N2164A	562
1N485C	1102	1N658	1102	1N812M	1102	1N908AM	1102	1N1221	1144	1N1730A	1114	1N2165	562
1N486	1102	1N658A	1102	1N813	1102	1N908M	1102	1N1221A	1144	1N1736	563	1N2165A	562
1N486A	1102	1N658M	1102	1N813M	1102	1N909	1123	1N1221B	1144	1N1736A	563	1N2166	562
1N486B	1102	1N659	1102	1N814	1102	1N910	1123	1N1222	1144	1N1763	1104	1N2166A	562
1N497	1123	1N659/A	1102	1N814M	1102	1N911	1123	1N1222A	1144	1N1763A	1144	1N2167	562
1N498	1123	1N659A	1102	1N815	1102	1N914	1103	1N1222B	1144	1N1764	1104	1N2167A	562
1N500	1123	1N660	1102	1N815M	1102	1N914/A/B	1103	1N1225	1114	1N1766	561	1N2168	562
1N503	1104	1N660A	1102	1N817	1102	1N914A	1103	1N1225A	1114	1N1766A	561	1N2168A	562
1N504	1104	1N661	1102	1N818	1102	1N914B	1103	1N1225B	1114	1N1770	562	1N2169	562
1N505	1104	1N661A	1102	1N818M	1102	1N914M	1103	1N1226	1114	1N1770A	562	1N2169A	562
1N506	1104	1N662	1102	1N819	1104	1N915	1102	1N1226A	1114	1N1773	563	1N2170	562
1N507	1104	1N662A	1102	1N822	561	1N916	1103	1N1226B	1114	1N1773A	563	1N2170A	562
1N508	1104	1N663	1102	1N835	1123	1N916A	1102	1N1251	1104	1N1775	564	1N2171	562
1N509	1114	1N663A	1102	1N837	1102	1N916B	1102	1N1252	1104	1N1775A	564	1N2171A	562
1N510	1114	1N663M	1102	1N837A	1102	1N917	1102	1N1253	1104	1N1839	1102	1N2181	1104
1N511	1104	1N665	563	1N838	1102	1N919	1102	1N1254	1104	1N1840	1102	1N2323	1104
1N512	1104	1N666	564	1N839	1102	1N920	1102	1N1255	1104	1N1841	1102	1N2390	1141
1N513	1104	1N673	1104	1N840	1102	1N921	1102	1N1255A	1104	1N1842	1102	1N2391	1143
1N514	1104	1N675	561	1N840M	1102	1N922	1102	1N1256	1104	1N1843	1102	1N2392	1143
1N515	1104	1N676	1104	1N841	1102	1N924	1102	1N1257	1104	1N1844	1102	1N2393	1144
1N516	1104	1N677	1104	1N842	1102	1N925	1102	1N1258	1114	1N1845	1102	1N2394	1144
1N517	1114	1N678	1104	1N843	1102	1N926	1102	1N1259	1114	1N1846	1102	1N2399	1141
1N518	1114	1N679	1104	1N844	1102	1N927	1102	1N1260	1114	1N1847	1102	1N2400	1143
1N519	1104	1N681	1104	1N845	1102	1N928	1102	1N1261	1114	1N1877	563	1N2401	1143
1N520	1104	1N682	1104	1N846	1104	1N929	1102	1N1337-5	1104	1N1877A	563	1N2402	1144
1N521	1104	1N683	1104	1N847	1104	1N930	1102	1N1391	1123	1N1878	564	1N2403	1144
1N522	1104	1N684	1104	1N848	1104	1N931	1102	1N1406	1104	1N1878A	564	1N2408	1141
1N523	1104	1N685	1104	1N849	1104	1N932	1102	1N1407	1114	1N1907	1104	1N2409	1143
1N524	1104	1N686	1104	1N850	1104	1N933	1102	1N1408	1114	1N1908	1104	1N2410	1143
1N525	1114	1N687	1104	1N851	1104	1N934	1102	1N1415	1104	1N1909	1104	1N2411	1144
1N526	1114	1N689	1104	1N852	1104	1N937A	562	1N1426	563	1N1910	1144	1N2412	1144
1N527	1123	1N690	1102	1N853	1114	1N942A	563	1N1427	564	1N1911	1104	1N2422	1104
1N530	1104	1N692	1104	1N854	1114	1N942B	563	1N1439	1104	1N1912	1104	1N2423	1104
1N531	1104	1N693	1102	1N855	1114	1N943	563	1N1440	1104	1N1913	1104	1N2424	1114
1N532	1104	1N695	1123	1N856	1114	1N943A	563	1N1441	1104	1N1914	1114	1N2425	1114
1N533	1104	1N695A	1123	1N857	1104	1N943B	563	1N1442	1104	1N1915	1114	1N2473	1102
1N534	1104	1N696	1102	1N858	1104	1N944	563	1N1443	1114	1N1916	1114	1N2482	1104
1N535	1104	1N697	1102	1N859	1104	1N944A	563	1N1443A	1114	1N1933	563	1N2483	1104
1N536	1104	1N698	1123	1N860	1104	1N944B	563	1N1443B	1114	1N1934	564	1N2484	1104
1N537	1104	1N709B	561	1N861	1104	1N947	1104	1N1485	561	1N1934A	564	1N2485	1104
1N538	1104	1N7138	562	1N862	1104	1N948	1102	1N1486	1104	1N1934B	564	1N2486	1104
1N539	1104	1N716	563	1N863	1104	1N949	1123	1N1487	1104	1N1960	563	1N2487	1104
1N540	1104	1N716(ZENER)	563	1N864	1114	1N960	562	1N1488	1104	1N1960A	563	1N2488	1104
1N542	1123	1N716A	563	1N865	1114	1N960A	562	1N1489	1104	1N1960B	563	1N2489	1104
1N542A	1123	1N716B	563	1N866	1114	1N960B	562	1N1490	1104	1N1987	563	1N2609	1104
1N542MP	1123	1N718	564	1N867	1114	1N963	563	1N1491	1104	1N1987A	563	1N2610	1104
1N547	1104	1N718A	564	1N868	1104	1N963A	563	1N1492	1104	1N1987B	563	1N2611	1104
1N548	1114	1N718B	564	1N869	1104	1N963B	563	1N15					

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1N2638	1104	1N3287N	1123	1N3753	1123	1N4367	1104	1N4722R	1114	1N5216	1104	1N611-OR	1114
1N2650	1104	1N3287W	1123	1N3754	1104	1N4360	1104	1N4723R	1114	1N5217	1104	1N611-A	1114
1N2663	1114	1N3298	1104	1N3755	1143	1N4369	1104	1N4724R	1114	1N5218	1114	1N611-B	1114
1N2801	1123	1N3403	563	1N3756	1144	1N4375	1102	1N4725R	1114	1N5219	1102	1N611-C	1114
1N2858	1104	1N3404	564	1N3757	1143	1N4376	1102	1N4726	1102	1N5220	1102	1N611-D	1114
1N2858A	1141	1N3416	563	1N3758	1144	1N4382	1102	1N4727	1102	1N5231	565	1N611-K	1114
1N2859	1143	1N3417	564	1N3773	1123	1N4383	1104	1N4733	565	1N5231A	565	1N611-L	1114
1N2859A	1143	1N3435	563	1N3826	565	1N4384	1104	1N4733A	565	1N5231B	565	1N611-Y	1114
1N2860	1104	1N3436	564	1N3826A	565	1N4385	1104	1N4735	561	1N5234B	561	1N611A	1114
1N2860A	1143	1N3443	561	1N3828	561	1N4389	1102	1N4735A	561	1N5239B	562	1N611B	1114
1N2861	1104	1N3447	563	1N3828A	561	1N4392	1102	1N4739	562	1N5242	563	1N611C	1114
1N2861A	1144	1N3448	564	1N3855A	562	1N4395	1102	1N4739A	562	1N5242A	563	1N611D	1114
1N2862	1104	1N3465	1123	1N3864	1102	1N4395A	1102	1N4742	563	1N5242B	563	1N611K	1114
1N2862A	1144	1N3466	1123	1N3866	1143	1N4403	562	1N4742A	563	1N5245	564	1N611L	1114
1N2863	1104	1N3467	1123	1N3867	1144	1N4403A	562	1N4744	564	1N5245A	564	1N611R	1114
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1N2880	1114	1N3471	1102	1N3875	1104	1N4406B	563	1N4767	562	1N5316	1102	1NJ33233	1123
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1N2882	1114	1N3474	1104	1N3914	1101	1N4408A	564	1N4768	562	1N5318	1102	1NJ61224	1123
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1N3022B	563	1N3497	561	1N3981	1143	1N4451	1102	1N4773	562	1N5394	1144	1NJ70980	1102
1N3024	564	1N3498	561	1N3982	1144	1N4453	1102	1N4773A	562	1N5394GP	1114	1NJ70989	1123
1N3024A	564	1N3499	561	1N3991	1123	1N4454	1103	1N4774	562	1N5395	1144	1NJ71126	1101
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1N3067	1102	1N3544	1104	1N4006	1114	1N4532	1102	1N4823	1104	1N5401	1143	1N261-C	1114
1N3068	1102	1N3545	1104	1N4007	1114	1N4533	1102	1N4824	1104	1N5402	1143	1N261-D	1114
1N3069	1102	1N3546	1104	1N4009	1102	1N4534	1102	1N4825	1104	1N5403	1144	1N261-K	1114
1N3069M	1102	1N3547	1104	1N4011	1114	1N4536	1102	1N4827	1102	1N5404	1144	1N261-L	1114
1N3070	1102	1N3548	1104	1N4043	1102	1N4547	1102	1N4828	1102	1N5413	1102	1N261-OR	1114
1N3071	1102	1N3549	1104	1N4087	1102	1N4548	1102	1N4829	1102	1N5414	1102	1N261-Y	1114
1N3072	1141	1N3550	1102	1N4088	1123	1N4865	551	1N4830	1102	1N5415	1101	1P20-0806	2030
1N3073	1143	1N3564	1123	1N4089	1144	1N4865A	561	1N4861	1102	1N5420	1114	1P20-0029	2010
1N3074	1143	1N3575	1102	1N4092	1102	1N4866	561	1N4862	1102	1N5426	1102	1P20-0032	2059
1N3075	1143	1N3576	1102	1N4095	565	1N4866A	561	1N4863	1102	1N5523	565	1P20-0034	2010
1N3076	1144	1N3577	1102	1N4103A	562	1N4867	561	1N4864	1102	1N5523A	565	1P20-0036	2020
1N3077	1144	1N3583	563	1N4106	563	1N4867A	561	1N4896	563	1N5523B	565	1P20-0037	2010
1N3078	1144	1N3583A	563	1N4106A	563	1N4868	561	1N4896A	563	1N5525B	561	1P20-0041	2009
1N3079	1144	1N3583B	563	1N4109	564	1N4868A	561	1N4933	1101	1N5529B	562	1P20-0046	2023
1N3082	1143	1N3592	1123	1N4139	1141	1N4869	551	1N4937	1104	1N5532	563	1P20-0060	1123
1N3083	1144	1N3593	1102	1N4140	1143	1N4869A	561	1N4938	1102	1N5532A	563	1P20-0061	1103
1N3094	1104	1N3594	1102	1N4141	1143	1N4870	561	1N4942	1114	1N5532B	563	1P20-0083	2020
1N3108	562	1N3595	1102	1N4142	1144	1N4870A	561	1N4943	1114	1N5535	564	1P20-0086	565
1N3110	1123	1N3596	1102	1N4147	1102	1N4871	561	1N4944	1114	1N5535A	564	1P20-0110	2010
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1N3121	1123	1N3599	1102	1N4149	1103	1N4872	561	1N4950	1102	1N5550	1114	1P20-0122	2009
1N3122	1123	1N3600	1103	1N4150	1102	1N4872A	561	1N4997	1141	1N5551	1114	1P20-0159	2023
1N3123	1102	1N3601	1102	1N4151	1102	1N4873	561	1N4997R	1114	1N5552	1114	1P20-0213	2023
1N3124	1102	1N3602	1102	1N4152	1102	1N4873A	561	1N4998	1143	1N5562	562	1P20-0214	2009
1N3125	1123	1N3603	1101	1N4153	1103	1N4874	561	1N4998R	1114	1N5562A	562	1P100	1067
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1N3160	1104	1N3606	1102	1N4157	1102	1N4875A	561	1N5080	1144	1N5567	564	1P103	1067
1N3183	1104	1N3607	1102	1N4161	562	1N4876	561	1N5000R	1114	1N5567A	564	1P541	1123
1N3184	1104	1N3608	1102	1N4161A	562	1N4876A	561	1N5001R	1114	1N5605	1102	1P542	1123
1N3185	1114	1N3609	1102	1N4161B	562	1N4877	561	1N5002R	1114	1N5606	1102	1P643	1141
1N3186	1114	1N3611	1104	1N4164	563	1N4877A	561	1N5003R	1114	1N5607	1102	1P644	1143
1N3189	1104	1N3612	1104	1N4164A	563	1N4878	561	1N5004	1143	1N5610	1102	1P645	1144
1N3190	1104	1N3613	1104	1N4164B	563	1N4878A	561	1N5005	1143	1N5617	1104	1P646	1144
1N3191	1104	1N3614	1114	1N4166	564	1N4879	561	1N5006	1144	1N5619	1104	1P647	1144
1N3193	1104	1N3625	1102	1N4166A	564	1N4879A	561	1N5054	1114	1N5624	1143	1R0	1102
1N3194	1104	1N3629	1104	1N4166B	564	1N4880	551	1N5094A	1114	1N5625	1144	1R01	1104
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1N3197	1102	1N3632	1104	1N4245	1104	1N4881A	561	1N5057	1144	1N5680	1104	1R0H	1104
1N3203	1104	1N3633	1104	1N4246	1104	1N4882	561	1N5058	1144	1N5711	1102	1R1D	1104
1N3204	1123	1N3634	1104	1N4247	1104	1N4882A	561	1N5059	1114	1N5712	1102	1R1K	1104
1N3206	1102	1N3635	1114	1N4248	1114	1N4883B	561	1N5060	1114	1N5713	1102	1R2	1102
1N3207	1102	1N3636	1114	1N4249	1114	1N4884	561	1N5061	1114	1N5719	1102	1R2A	1104
1N3221	1114	1N3637	1114	1N4250	1114	1N4884A	561	1N5062	1114	1N5729	565	1R2D	1104
1N3223	1102	1N3638	1114	1N4251	1114	1N4866	1102	1N5062(SEARS)	1102	1N5738	563	1R2E	1104
1N3227	1143	1N3639	1104	1N4305	1103	1N4607	1102	1N5170	1114	1N5740	564	1R3A	1102
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
IR5DZ61-Y	1114	IS60(RECT)	1104	IS138	1114	IS337A	563	IS746	1123	IS990AM	1123	IS1341	1104
IR5G	1104	IS60F	1123	IS138(RECT)	1114	IS337E	563	IS747	1123	IS990S	564	IS1342	1104
IR5GZ61	1114	IS61	1104	IS141	563	IS337Y	563	IS748	1123	IS990S(DIODE)	1102	IS1343	1104
IR5GZ61-A	1114	IS62	1104	IS142	564	IS354	1123	IS750	1124	IS990S(ZENER)	564	IS1344	1104
IR5GZ61-B	1114	IS65	1104	IS144	1102	IS355	1123	IS750(2)	1124	IS994A	1102	IS1345	1114
IR5GZ61-C	1114	IS64	1104	IS147	1104	IS356	1123	IS750C-R	1124	IS1000	1124	IS1346	1104
IR5GZ61-D	1114	IS65	1104	IS148	1104	IS357	1123	IS750S	1124	IS1060A	1124	IS1347	1114
IR5GZ61-K	1114	IS66	1104	IS149	1104	IS358	1104	IS755(H)	565	IS1001	1102	IS1348	1114
IR5GZ61-L	1114	IS71	1104	IS150	1104	IS358A	1104	IS757A	562	IS1004	1104	IS1359	1104
IR5GZ61-OR	1114	IS72	1123	IS155	1102	IS358S	1104	IS758GS	562	IS1005	1123	IS1359A	1104
IR5GZ61-Y	1114	IS73	1123	IS155-1	1102	IS359	1104	IS773	1103	IS1006	1123	IS1360	1104
IR5GZ61FA-1	1114	IS73A	1123	IS180	1102	IS367	1104	IS773A	1103	IS1007	1123	IS1360A	1104
IR5H	1104	IS74	1123	IS180/5G8	1104	IS368	1104	IS775	1103	IS1007S	1123	IS1361	1104
IR5JZ61-A	1114	IS75	1123	IS180-M	1104	IS369	1104	IS776	1103	IS1008	1123	IS1361A	1104
IR5JZ61-B	1114	IS76	1123	IS180B	1102	IS370	1104	IS780	1123	IS1009	1123	IS1362	1114
IR5JZ61-C	1114	IS77	1123	IS181	1102	IS371	1104	IS801	1103	IS1010	1123	IS1362A	1114
IR5JZ61-D	1114	IS77H	1123	IS181-M	1104	IS372	1104	IS802	1103	IS1012	1104	IS1363	1114
IR5JZ61-K	1114	IS78	1123	IS181FA	1102	IS373	1104	IS803	1103	IS1013	1104	IS1363A	1114
IR5JZ61-L	1114	IS78H	1123	IS182	1102	IS374	1104	IS804	1103	IS1014	1114	IS1365	1104
IR5JZ61-OR	1114	IS79	1123	IS182-M	1104	IS375	1104	IS805	1103	IS1015	1114	IS1365A	1104
IR5JZ61-V	1114	IS79H	1123	IS183	1104	IS376	1104	IS806	1103	IS1021	1104	IS1366	1104
IR5.1	565	IS80	1123	IS183-M	1104	IS377	1104	IS807	1103	IS1022	1104	IS1366A	1104
IR9	1104	IS81	1104	IS185	1123	IS378	1104	IS808	1103	IS1023	1114	IS1367	1104
IR9D	1104	IS82	1123	IS185OR	1104	IS379	1104	IS811	1104	IS1024	1114	IS1367A	1104
IR9H	1104	IS83	1104	IS186	1123	IS380	1104	IS812	1104	IS1027	1104	IS1368	1114
IR9I	1104	IS84	1102	IS186(FM)	1123	IS381	1104	IS813	1114	IS1028	1104	IS1368A	1114
IR9J	1104	IS84H	1104	IS186G	1104	IS382	1104	IS814	1114	IS1029	1114	IS1369	1114
IR9L	1104	IS85V	1104	IS187	1123	IS390	1104	IS816	1104	IS1030	1114	IS1369A	1114
IR9P	1104	IS87	1123	IS187S	1123	IS393	1104	IS817	1104	IS1039	1144	IS1375	561
IR9U	1104	IS88	1123	IS188	1123	IS394	1104	IS818	1114	IS1043	1104	IS1375A	561
IR9.1A	562	IS89	1102	IS188A	1123	IS395	1104	IS819	1114	IS1044	1104	IS1390	561
IR9.1B	562	IS90	1104	IS188AM	1123	IS396	1104	IS821	1104	IS1045	1114	IS1390A	561
IR10D3K	1102	IS90R	1102	IS188AR	1123	IS397	1114	IS842	1104	IS1046	1114	IS1406	561
IR12	563	IS91	1104	IS188F	1123	IS398	1104	IS843	1104	IS1052	1102	IS1406R	561
IR12A	563	IS91R	1104	IS188FM	1123	IS399	1104	IS844	1104	IS-1053	1103	IS1420H	1102
IR12B	563	IS92	1104	IS188FM-1	1123	IS400	1104	IS844N	1104	IS1053	1102	IS1464	1124
IR15	564	IS92R	1104	IS188FM1	1123	IS401	1114	IS845	1104	IS1061	1104	IS1471	1114
IR15A	564	IS93	1104	IS188FM1A	1123	IS402	1114	IS846	1104	IS1062	1104	IS1473	1102
IR15B	564	IS93 SGJ	1104	IS188FM2	1123	IS404	1104	IS846N	1104	IS1063	1104	IS1474	1143
IR81	1104	IS93R	1104	IS188FMA	1123	IS405	1114	IS847	1114	IS1064	1104	IS1475	1144
IR90	1104	IS94	1104	IS188G	1123	IS406	1114	IS848	1114	IS1065	1114	IS1486	1104
IR95	1114	IS94R	1104	IS188PM	1123	IS426	1123	IS848N	1114	IS1066	1114	IS1487	1104
IR106B1	1067	IS95	1104	IS188S	1123	IS426FM	1123	IS849	1104	IS1071	1114	IS1488	1145
IR106B1-C	1067	IS95R	1104	IS188TV	1123	IS426G	1123	IS849 R	1104	IS1072	1114	IS1489	1144
IR106B2	1067	IS96	1114	IS189	1123	IS426GF-M	1123	IS849R	1104	IS1073	1144	IS1514	1102
IR106B3	1067	IS96R	1114	IS190	565	IS428	1123	IS850	1114	IS1076	1114	IS1515	1102
IR106B4	1067	IS97	1114	IS197	563	IS430	1141	IS850N	1114	IS1096	1104	IS1516	1102
IR106D1	1020	IS97R	1114	IS200	1123	IS431	1143	IS851	1123	IS1121	1171	IS1532	1102
IR106D2	1020	IS98	1114	IS204	1104	IS432	1143	IS854	1144	IS1123	1173	IS1546	1104
IR106D3	1020	IS98R	1114	IS205	1104	IS434	1144	IS871	1104	IS1124	1173	IS1547	1104
IR106D4	1020	IS99	1114	IS206	1104	IS441	1123	IS871A	1104	IS1146	1104	IS1548	1104
IR106D41	1020	IS99A	1104	IS207	1104	IS442	1123	IS871B	1114	IS1147	1103	IS1549	1124
IR914	1103	IS100	1104	IS208	1104	IS444	1102	IS871C	1114	IS1155	1102	IS1553	1103
IRCS	1057	IS100R	1104	IS209	1104	IS446	1123	IS872	1104	IS1177	564	IS1553(TV)	1102
IRC10	1067	IS10	1104	IS210	1114	IS-446D	1123	IS872A	1104	IS1201	561	IS1554	1102
IRC20	1067	IS10 R	1104	IS210 25J6A	1114	IS446D	1123	IS872B	1104	IS1207	1114	IS1555	1102
IRC30	1020	IS102	1104	IS211	1114	IS447	1123	IS872C	1114	IS1208	1104	IS1555(TV)	1102
IRC40	1020	IS102R	1104	IS211 25J8A	1114	IS447P	1123	IS872D	1104	IS1213	1104	IS1555-1	1102
IRE10	1104	IS103	1104	IS211A	1114	IS448	1123	IS881A	1104	IS1214	1102	IS1555-S	1102
IRLD	1171	IS103R	1104	IS217	562	IS449	1123	IS881B	1114	IS1215	1102	IS-1555-Z	1102
IROE	1102	IS104	1104	IS218	1102	IS451	1123	IS881C	1114	IS1216	1102	IS1555-Z	1102
IROF	1104	IS104R	1104	IS227	563	IS452	1123	IS882	1104	IS1217	1102	IS1555FA1	1102
IROH	1104	IS105	1104	IS230	564	IS453	1123	IS882A	1104	IS1218	1102	IS-1555V	1102
IR-TR24	2010	IS105R	1104	IS268T	1104	IS454	1123	IS882B	1114	IS1218GR	1102	IS1555V	1102
IR-TR25	2010	IS106	1104	IS301.5	564	IS455	1123	IS882C	1114	IS1219	1102	IS1555Z	1102
IRTR51	2016	IS106A	1104	IS306	1102	IS456	1104	IS885	1104	IS1219H	1103	IS1580	1102
IS005	1104	IS106R	1104	IS306M	1103	IS457	1104	IS887	1104	IS1220	1102	IS1585	1102
IS016	1104	IS107	1114	IS307	1102	IS458	1104	IS920	1102	IS1221	1104	IS1586	1102
IS020	1143	IS107R	1114	IS309	1104	IS459	1104	IS921	1102	IS1222	1104	IS1587	1102
IS021	1143	IS108	1114	IS310	1104	IS460	1104	IS921(RECT)	1143	IS1223	1114	IS1588	1103
IS023	1144	IS108R	1114	IS310H	1104	IS461	1103	IS922	1144	IS1224	1104	IS1588-FM	1123
IS030	1141	IS109	1114	IS311H	1104	IS465	1102	IS922(DIODE)	1102	IS1225	1114	IS1588V	1103
IS031	1143	IS109R	1114	IS311N	1104	IS466	1123	IS922(RECT)	1144	IS1225A	1114	IS1589	1102
IS032	1143	IS110	1104	IS312	1104	IS467R	1123	IS923	1102	IS1230	1104	IS1597	1104
IS034	1144	IS110A	1104	IS312A	1104	IS482	562	IS924G	1123	IS1230H	1104	IS1598	1104
IS054	1104	IS111	1104	IS312H	1102	IS500	1103	IS941	1102	IS1231	1104	IS1599	1104
IS058	1114	IS112	1104	IS313	1104	IS501	1103	IS941 4454C	1104	IS1231H	1104	IS1600	1104
IS1-0336-00-A	2041	IS113	1104	IS313H	1104	IS501M	1103	IS942	1102	IS1232	1104	IS1601	1104
IS1Z09	1104	IS113A	1104	IS314	1104	IS542	1123	IS943	1104	IS1232H	1104	IS1602	1104
IS11	1123	IS114	1104	IS314H	1104	IS543	1124	IS946	1104	IS1232N	1104	IS1604	1104
IS12	1123	IS115	1104	IS314N	1104	IS548	1103	IS947	1104	IS1233	1114	IS1605	1114
IS13	1123	IS116	1104	IS315	1104	IS552	1103	IS948	1104	IS1233H	1114	IS1606	1114
IS14	1123	IS117	1114	IS315FR1MD	1114	IS557	1114	IS949	1114	IS1233N	1114	IS1621	1102
IS15	1123	IS118	1104	IS315H	1104	IS557H	1104	IS950	1114	IS1234	1114	IS1621-O	1102
IS16	1123	IS119	1104	IS316	1114	IS558	1104	IS951	1102	IS1234A	1114	IS1621-Y	1102
IS17	1123	IS120	1104	IS318	1123	IS559	1104	IS952	1102	IS1234N	1114	IS1622	1102
IS17D1	1123	IS121	1104	IS319	1123	IS560	1102	IS953	1103	IS1239	1123	IS1622	1104
IS19	1123	IS121(RECT)	1104	IS320	565	IS560H	1102	IS954	1102	IS1244	1123	IS1623	1104
IS20	1123	IS122	1104	IS322	1102	IS588	1104	IS955	1102	IS1245	1123	IS1624	1104
IS32	1123	IS123	1104	IS323	1123	IS589	1123	IS956	1143	IS1246	1123	IS1625	1104
IS33													

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1S1685	1104	1S1892	1114	1S2304	565	1S2675	1104	1SR16-100	1143	1T2012	1104	1ZC9.1	562
1S1686	1104	1S1906	1104	1S2310	1104	1S2676	1104	1SR16-200	1143	1T2013	1104	1ZC9.1T5	562
1S1687	1104	1S1914	1143	1S2311	1114	1S2692AB	1103	1SR16-400	1144	1T2014	1104	1ZC9.1T10	562
1S1688	1114	1S1915	1143	1S2312	1114	1S2757	1104	1SR17-50	1141	1T2015	1104	1ZC12	563
1S1689	1114	1S1916	1144	1S2313	1104	1S2760	1141	1SR17-100	1143	1T2016	1104	1ZC12T5	563
1S1690	1123	1S1922	1124	1S2314	1114	1S2761	1143	1SR17-200	1143	1T20105	1104	1ZC12T10	563
1S1690A	1104	1S1922G	1124	1S2315	1114	1S2762	1143	1SR17-400	1144	1TA6.2	561	1ZC12T20	563
1S1691	1104	1S1925	1124	1S2316	1104	1S2763	1144	1SR30-200	1104	1TA6.2A	561	1ZC15	564
1S1691A	1104	1S1926	1124	1S2317	1104	1S2764	1144	1SR30-400	1114	1TA6.2B	561	1ZC15T5	564
1S1692A	1104	1S1926K	1124	1S2350	1144	1S2769	561	1SR30-600	1104	1TA9.1	562	1ZC15T10	564
1S1693	1104	1S1928	1124	1S2351	1104	1S2770	561	1SR31-800	2023	1TA9.1A	562	1ZD12	563
1S1693A	1104	1S1941	1104	1S2352	1104	1S2771	561	1SR31-1000	1114	1TA12	563	1ZF5.1T5	565
1S1694A	1104	1S1942	1104	1S2353	1114	1S2774	561	1SR34	1103	1TA12A	563	1ZF5.1T10	565
1S1695	1114	1S1943	1104	1S2354	1114	1S2775	1104	1SR35	1103	1TA15	564	1ZF5.1T20	565
1S1695A	1114	1S1944	1114	1S2356	1104	1S2775FA-1	1104	1SR55-50	1114	1TA15A	564	1ZF9.1T5	562
1S1696	1104	1S1948	1104	1S2357	1104	1S2776	1114	1SR55-100	1114	1TB06	1104	1ZF9.1T10	562
1S1696A	1104	1S1949	1104	1S2358	1104	1S2777	1104	1SR55-200	1104	1TS05	1104	1ZF9.1T20	562
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1S1712	1103	1S1991	1143	1S2367	1104	1S2832	1104	1SR78-200	1104	1V68611A47	2023	1ZM5.1T5	565
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1S1715	561	1S1995	1102	1S2373	1104	1S3016	564	1SS16	1124	1W8537	2023	1ZM6.2T5	561
1S1717L	562	1S2019	1114	1S2373A	1173	1S3016(RECT)	1104	1SS19	1103	1W8995A	2030	1ZM6.2T10	561
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1S1720R	1114	1S2051B	565	1S2375A	1173	1S3195	1104	1SS49	1103	1W9640A	2023	1ZM9.1T10	562
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1S1724	1104	1S2074M	1102	1S2390	1104	1S4266FAM	1123	1SS54	1103	1W9782	2023	1ZM12T20	563
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1S1725	1104	1S2075K	1103	1S2392	1104	1S4544	1123	1SS68	1103	1W9787	2009	1ZM15T10	564
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1S1726	1104	1S2076-27	1103	1S2394	1104	1S7051A	565	1SS81	1102	1W9810A	2023	1ZT12	563
1S1726R	1104	1S2076-TF1	1103	1S2395	1104	1S7051B	565	1SS82	1104	1W98105	2023	1ZT12B	563
1S1727	1104	1S2076-TF1	1103	1S2396	1104	1S7120	563	1SS83	1102	1W98105A	2023	1ZT15	564
1S1727R	1104	1S2076A-07	1103	1S2397	1114	1S7120A	563	1SS110	1103	1W11700	2023	1ZT15B	564
1S1728	562	1S2076A	1103	1S2398	1114	1S7120B	563	1SS119	1103	1W11700A	2023	1.000.111-00	2023
1S1728R	1104	1S2080	1104	1S2399	1114	1S7150	564	1SS133	1103	1W11702	2023	1.5B05	1114
1S1729	1104	1S2081	1104	1S2400	1114	1S7150A	564	1SV34	1103	1W11702A	2023	1.5C05	1114
1S1729R	1104	1S2091	1102	1S2401	1104	1S7150B	564	1SV35	1103	1W11708-1	2009	1.5E05	1141
1S1730	1104	1S2091(DIODE)	1102	1S2402	1104	1S9413	1104	1SZ40-12	563	1W11708-2	2009	1.5E1	1143
1S1730R	1104	1S2091-BK	1102	1S2403	1114	1S9908	1123	1SZ40-15	564	1W11711	2023	1.5E2	1143
1S1731	1114	1S2091-BL	1102	1S2404	1104	1S11941	1102	1TZC1	1104	1W11711A	2023	1.5E3	1114
1S1731R	1114	1S2091-W	1102	1S2405	1114	1S15188	1103	1TZ21	1104	1WB-5A	565	1.5E4	1144
1S1732	1114	1S2091BK	1102	1S2406	1114	1S15551	1102	1T6.2	561	1WB-15D	564	1.5E7	1114
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1S1734	565	1S2091W	1102	1S2409	1114	1S19413T	1104	1T9.1	562	1WS1	1114	1.5E10	1114
1S1735	561	1S2092	1102	1S2410	1143	1S20751C	1102	1T9.1A	562	1WS2	1114	1.5J05	1141
1S1739	563	1S2095A	1103	1S2411	1144	1S21447	1103	1T9.1B	562	1WS4	1144	1.5J1	1143
1S1740	564	1S2097	1102	1S2412	1144	1S801-02	1104	1T12	563	1WS8	1114	1.5J2	1148
1S1766	565	1S2098	1102	1S2415	1141	1SC683	2016	1T12A	563	1WS10	1114	1.5J3	1144
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1S1801-02	1103	1S2112AFA-1	561	1S2417	1143	1SC2367	1102	1T13	1124	1X9805	1102	1.5J7	1114
1S1807	1124	1S2116	562	1S2418	1144	1SD-2	1104	1T13A	1124	1X9809	1124	1.5J8	1114
1S1821R	1114	1S216A	562	1S2419	1144	1SD2	1104	1T13B	1104	1Z5.1	565	1.5J10	1114
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1S1829L	1114	1S2134	1103	1S2461	1102	1SO30	1104	1T22AM	1123	1Z6.2T20	561	2-8454-031	2009
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1S1830B	1114	1S2144A	1102	1S2472	1103	1SO36	1104	1T23A	1123	1Z9.1C	562	2-D2R	1104
1S1830C	1114	1S2144Z	1102	1S2473	1103	1SO38	1114	1T23B	1123	1Z9.1D5	562	2-G-3055	2041
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1S1830Y	1114	1S2186GR	1102	1S2473J	1103	1SR1K	1104	1T26	1123	1Z9.1T10	562	2A21(ZENER)	565
1S1834	1104	1S2187	1124	1S2473K	1103	1SR11-100	1114	1T26-2	1123	1Z9.1T20	562	2A22	565
1S1835	1104	1S2196	563	1S2473T	1102	1SR11-200	1104	1T40	1102	1Z12	563	2A22(ZENER)	565
1S1845	1104	1S2198	1124	1S2473VE	1103	1SR11-400	1114	1T188	1123	1Z12A	563	2A30	1114
1S1845A	1104	1S2198HC	1124	1S2479	1123	1SR11-600	1104	1T20					

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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25C31H	2009	25C40GN	2010	25C52I	2010	25C61K	2010	25C69L	2010	25C95D	2010	25C104C	2009
25C31J	2009	25C40H	2010	25C52J	2010	25C61L	2010	25C69M	2010	25C95E	2010	25C104D	2009
25C31K	2009	25C40I	2010	25C52K	2010	25C61M	2010	25C69OR	2010	25C95F	2010	25C104E	2009
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25C31OR	2009	25C40L	2010	25C52OR	2010	25C61S	2010	25C69Y	2010	25C95M	2010	25C104GN	2009
25C31R	2009	25C40OR	2010	25C52R	2010	25C62	2010	25C74	2009	25C95OR	2010	25C104H	2009
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25C31Y	2009	25C40Y	2010	25C53A	2010	25C62C	2010	25C74A	2009	25C95L	2010	25C104K	2009
25C32	2010	25C45	2009	25C53B	2010	25C62D	2010	25C74B	2009	25C95M	2010	25C104L	2009
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25C32B	2010	25C46A	2010	25C53D	2010	25C62F	2010	25C74D	2009	25C95R	2010	25C104OR	2009
25C32C	2010	25C46B	2010	25C53E	2010	25C62G	2010	25C74E	2009	25C95S	2010	25C104R	2009
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25C32G	2010	25C46G	2010	25C53H	2010	25C62J	2010	25C74H	2009	25C97	2010	25C105B	2009
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25C32X	2010	25C46Y	2010	25C54B	2010	25C63D	2010	25C79A	2010	25C97J	2010	25C108F	2010
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25C33C	2010	25C47D	2010	25C54G	2010	25C63H	2010	25C79F	2010	25C97R	2010	25C108K	2010
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25C33M	2010	25C47R	2010	25C55A	2010	25C64A	2010	25C79X	2010	25C98G	2010	25C109A-R	2010
25C33OR	2010	25C47S	2010	25C55B	2010	25C64A	2010						

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25C110H	2009	25C1168	2009	25C122F	2030	25C132E	2009	25C139E	2009	25C152OR	2009	25C160X	2009
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25C110K	2009	25C116D	2009	25C122GM	2030	25C132G	2009	25C139G	2009	25C152X	2009	25C162	2009
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25C111M	2009	25C117F	2030	25C123J	2030	25C133J	2009	25C140K	2030	25C156	2010	25C167A	2009
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25C112A	2030	25C117L	2030	25C123X	2030	25C133Y	2009	25C140Y	2030	25C156F	2010	25C167G	2009
25C112B	2030	25C117M	2030	25C123Y	2030	25C134	2009	25C141	2009	25C156G	2010	25C167GN	2009
25C112C	2030	25C117R	2030	25C124	2030	25C134A	2009	25C142	2009	25C156GN	2010	25C167H	2009
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25C112GN	2030	25C118B	2030	25C124E	2030	25C134F	2009	25C146A	2009	25C156M	2010	25C167X	2009
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25C112X	2030	25C118J	2030	25C124M	2030	25C134OR	2009	25C148GN	2010	25C157C	2009	25C170D	2009
25C112Y	2030	25C118L	2030	25C124OR	2030	25C134R	2009	25C148H	2010	25C157D	2009	25C170E	2009
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25C113D	2030	25C118Y	2030	25C127	2009	25C135B	2009	25C148OR	2010	25C157J	2009	25C170J	2009
25C113E	2030	25C119	2030	25C127A	2009	25C135C	2009	25C148R	2010	25C157K	2009	25C170K	2009
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25C114A	2030	25C119OR	2030	25C127R	2009	25C136	2009	25C150H	2030	25C158H	2009	25C171G	2009
25C114B	2030	25C119R	2030	25C127X	2009	25C136D	2009	25C150J	2030	25C158J	2009	25C171GN	2009
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25C114X	2030	25C120K	2009	25C130M	2030	25C137M	2009	25C151E	2009	25C159F	2009	25C172D	2009
25C114Y	2030	25C120M	2009										

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25C174OR	2009	25C191H	2009	25C197H	2009	25C205G	2009	25C214D	2030	25C225E	2030	25C237F	2009
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25C174X	2009	25C191M	2009	25C197M	2009	25C205K	2009	25C216GN	2030	25C225H	2030	25C237I	2009
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25C186A	2010	25C191X	2009	25C197X	2009	25C205OR	2009	25C216K	2030	25C225M	2030	25C237M	2009
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25C188	2030	25C194	2009	25C200OR	2009	25C209M	2016	25C218M	2030	25C227X	2030	25C239OR	2009
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25C188AB	2030	25C194B	2009	25C200Y	2009	25C209R	2016	25C218R	2030	25C228	2030	25C239X	2009
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25C188D	2030	25C194E	2009	25C201B	2009	25C210	2030	25C218Z	2030	25C228C	2030	25C240A	2041
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25C247D	2030	25C268	2030	25C282E	2069	25C291R	2030	25C308GN	2030	25C317D	2009	25C344	2010
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25C250R	2009	25C72G	2010	25C286C	2010	25C306C	2030	25C313OR	2016	25C323G	2009	25C352	2009
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25C263A	2030	25C72Y	2010	25C286V	2010	25C							

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25C356E	2009	25C366H	2009	25C370E	2059	25C373GN	2009	25C377X	2009	25C380YEL	2009	25C384F	2010
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25C366G	2009	25C366K	2009	25C370G	2059	25C373H	2009	25C378	2059	25C381(BN)	2010	25C384GN	2010
25C356GN	2009	25C366L	2009	25C370GN	2059	25C373J	2009	25C378-O	2059	25C301-0	2010	25C384H	2010
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25C360D	2009	25C367AO	2009	25C371-O	2059	25C374-V	2016	25C378J	2059	25C381E	2010	25C385F	2010
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25C360F	2009	25C367AY	2009	25C371-ORG-G	2059	25C374B	2016	25C378L	2059	25C381G	2010	25C385GN	2010
25C360G	2009	25C367B	2009	25C371-R	2059	25C374BL	2016	25C378M	2059	25C381GN	2010	25C385H	2010
25C360GN	2009	25C367C	2009	25C371-R-1	2059	25C374BLK	2016	25C378O	2059	25C381H	2010	25C385J	2010
25C360H	2009	25C367D	2009	25C371-RED-G	2059	25C374C	2016	25C378OR	2059	25C381I	2010	25C385K	2010
25C360J	2009	25C367E	2009	25C371-T	2059	25C374D	2016	25C378R	2059	25C381K	2010	25C385L	2010
25C360K	2009	25C367F	2009	25C371A	2059	25C374E	2016	25C378X	2059	25C381L	2010	25C385M	2010
25C360L	2009	25C367G	2009	25C371B	2059	25C374F	2016	25C378Y	2059	25C381M	2010	25C385OR	2010
25C360M	2009	25C367GN	2009	25C371C	2059	25C374G	2016	25C379	2009	25C381O	2010	25C385R	2010
25C360OR	2009	25C367G-O	2009	25C371D	2059	25C374GN	2016	25C379A	2009	25C381OR	2010	25C385X	2010
25C360R	2009	25C367G-R	2009	25C371E	2059	25C374H	2016	25C379B	2009	25C381R	2010	25C385Y	2010
25C360X	2009	25C367G-Y	2009	25C371F	2059	25C374J	2016	25C379C	2009	25C381RED	2010	25C386	2010
25C360Y	2009	25C367H	2009	25C371G	2059	25C374JA	2016	25C379D	2009	25C381RL	2010	25C386-0	2010
25C361	2059	25C367J	2009	25C371GN	2059	25C374K	2016	25C379E	2009	25C381X	2010	25C386A-0(TV)	2010
25C361A	2059	25C367K	2009	25C371G-0	2009	25C374L	2016	25C379F	2009	25C381Y	2010	25C386A	2010
25C361B	2059	25C367L	2009	25C371G-R	2009	25C374M	2016	25C379G	2009	25C382	2058	25C386AO	2010
25C361C	2059	25C367M	2009	25C371H	2059	25C374OR	2016	25C379GN	2009	25C382(BL)	2058	25C386B	2010
25C361D	2059	25C367O	2009	25C371I	2059	25C374R	2016	25C379H	2009	25C382(BN)	2058	25C386C	2010
25C361E	2059	25C367OR	2009	25C371K	2059	25C374V	2016	25C379J	2009	25C382(R)	2058	25C386D	2010
25C361F	2059	25C367R	2009	25C371L	2059	25C374X	2016	25C379K	2009	25C382-BK	2058	25C386E	2010
25C361G	2059	25C367X	2009	25C371M	2059	25C374Y	2016	25C379L	2009	25C382-BK(1)	2058	25C386F	2010
25C361GN	2059	25C367Y	2009	25C371O	2059	25C375	2010	25C379M	2009	25C382-BK(2)	2058	25C386G	2010
25C361H	2059	25C368	2016	25C371OR	2059	25C375-0	2010	25C379OR	2009	25C382-G	2058	25C386GN	2010
25C361J	2059	25C368-BL	2016	25C371R	2059	25C375-O	2010	25C379R	2009	25C382-GR	2058	25C386H	2010
25C361K	2059	25C368-GR	2016	25C371R-1	2059	25C375-Y	2010	25C379X	2009	25C382-GY	2058	25C386J	2010
25C361L	2059	25C368A	2016	25C371RED-G	2059	25C375A	2010	25C379Y	2009	25C382-OR	2058	25C386K	2010
25C361M	2059	25C368B	2016	25C371T	2059	25C375B	2010	25C380	2009	25C382-R	2058	25C386L	2010
25C361OR	2059	25C368BL	2016	25C371X	2059	25C375C	2010	25C380(R)	2009	25C382-V	2058	25C386M	2010
25C361R	2059	25C368C	2016	25C371Y	2059	25C375D	2010	25C380/4454C	2009	25C382A	2058	25C386OR	2010
25C361X	2059	25C368D	2016	25C372	2009	25C375E	2010	25C380-0/4454C	2009	25C382B	2058	25C386R	2010
25C361Y	2059	25C368E	2016	25C372(H)	2009	25C375F	2010	25C380-BRN	2009	25C382BK	2058	25C386X	2010
25C362	2059	25C368F	2016	25C372(O)	2009	25C375G	2010	25C380-0	2010	25C382BK1	2058	25C386Y	2010
25C362A	2059	25C368G	2016	25C372(Y)	2009	25C375GN	2010	25C380-0/4454C	2009	25C382BK2	2058	25C387	2010
25C362B	2059	25C368GN	2016	25C372/4454C	2009	25C375H	2010	25C380-OR	2009	25C382BL	2058	25C387-G	2010
25C362C	2059	25C368GR	2016	25C372-0	2009	25C375J	2010	25C380-ORG	2009	25C382BN	2058	25C387-OR	2010
25C362D	2059	25C368H	2016	25C372-1	2009	25C375K	2010	25C380-R	2009	25C382BR	2058	25C387A	2010
25C362E	2059	25C368J	2016	25C372-2	2009	25C375L	2010	25C380-RED	2009	25C382C	2058	25C387A(FA-3)	2010
25C362F	2059	25C368K	2016	25C372-0	2009	25C375M	2010	25C380-YEL	2009	25C382D	2058	25C387AG	2010
25C362G	2059	25C368L	2016	25C372-OR	2009	25C375OR	2010	25C380A-0	2009	25C382E	2058	25C387B	2010
25C362GN	2059	25C368M	2016	25C372-ORG	2009	25C375R	2010	25C380A-0(TV)	2009	25C382F	2058	25C387C	2010
25C362H	2059	25C368OR	2016	25C372-ORG-G	2009	25C375X	2010	25C380A	2009	25C382G	2058	25C387D	2010
25C362J	2059	25C368R	2016	25C372-R	2009	25C376	2009	25C380A(D)	2009	25C382GN	2058	25C387E	2010
25C362K	2059	25C368V	2016	25C372-YEL-G	2009	25C376A	2009	25C380A(O)	2009	25C382GR	2058	25C387F	2010
25C362L	2059	25C368X	2016	25C372-Z	2009	25C376B	2009	25C380A(R)	2009	25C382GY	2058	25C387FA3	2010
25C362M	2059	25C368Y	2016	25C372A	2009	25C376C	2009	25C380A(Y)	2009	25C382H	2058	25C387G	2010
25C362OR	2059	25C369	2016	25C372AR	2009	25C376D	2009	25C380A+O	2009	25C382J	2058	25C387GN	2010
25C362R	2059	25C369-BL	2016	25C372B	2009	25C376E	2009	25C380A-0	2009	25C382K	2058	25C387H	2010
25C362X	2059	25C369-BLU-G	2016	25C372BL	2009	25C376F	2009	25C380A-O	2009	25C382L	2058	25C387J	2010
25C362Y	2059	25C369-GR	2016	25C372C	2009	25C376G	2009	25C380A-O(TV)	2009	25C382M	2058	25C387K	2010
25C363	2009	25C369-GRN-G	2016	25C372D	2009	25C376GN	2009	25C380A-R	2009	25C382OR	2058	25C387L	2010
25C363-OR	2009	25C369-V	2016	25C372E	2009	25C376H	2009	25C380AR	2009	25C382R	2058	25C387M	2010
25C363A	2009	25C369A	2016	25C372F	2009	25C376J	2009	25C380A-R(TV)	2009	25C382V	2058	25C387OR	2010
25C363B	2009	25C369B	2016	25C372G	2009	25C376K	2009	25C380ATV	2009	25C382W	2058	25C387R	2010
25C363C	2009	25C369BL	2016	25C372GN	2009	25C376L	2009	25C380A-Y	2009	25C382X	2058	25C387X	2010
25C363D	2009	25C369C	2016	25C372G-0	2009	25C376M	2009	25C380AY	2009	25C382Y	2058	25C387Y	2010
25C363E	2009	25C369D	2016	25C372GR	2009	25C376OR	2009	25C380B	2009	25C383	2009	25C388	2009
25C363F	2009	25C369E	2016	25C372G-Y	2009	25C376R	2009	25C380B-Y	2009	25C383(T)	2009	25C388-OR	2009
25C363G	2009	25C369F	2016	25C372H	2009	25C376X	2009	25C380BY	2009	25C383-OR	2009	25C388A	2009
25C363GN	2009	25C369G	2016	25C372J	2009	25C376Y	2009	25C380C	2009	25C383A	2009	25C388ATM	2009
25C363H	2009	25C369G/BL	2016	25C372K	2009	25C377	2009	25C380C-Y	2009	25C383B	2009	25C388ATV	2009
25C363J	2009												

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2SC389F	2016	2SC400F	2009	2SC405X	2009	2SC455	2059	2SC459R	2009	2SC477ON	2016	2SC498D	2034
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2SC389GN	2016	2SC400GN	2009	2SC406	2009	2SC455A	2059	2SC459Y	2009	2SC477Y	2016	2SC498F	2030
2SC389H	2016	2SC400H	2009	2SC406A	2009	2SC455B	2059	2SC460	2009	2SC478	2009	2SC498G	2030
2SC389J	2016	2SC400J	2009	2SC406B	2009	2SC455C	2059	2SC460(A)	2009	2SC478(D)	2009	2SC498GN	2030
2SC389K	2016	2SC400K	2009	2SC406C	2009	2SC455D	2059	2SC460(B)	2009	2SC478(O)	2009	2SC498H	2030
2SC389L	2016	2SC400L	2009	2SC406D	2009	2SC455E	2059	2SC460-5	2009	2SC478-O	2009	2SC498J	2030
2SC389LP	2016	2SC400M	2009	2SC406E	2009	2SC455F	2059	2SC460-B	2009	2SC478A	2009	2SC498K	2030
2SC389M	2016	2SC400OR	2009	2SC406F	2009	2SC455G	2059	2SC460-C	2009	2SC478B	2009	2SC498L	2030
2SC389O	2016	2SC400R	2009	2SC406G	2009	2SC455GN	2059	2SC460-OR	2009	2SC478C	2009	2SC498M	2030
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2SC389P	2016	2SC400Y	2009	2SC406H	2009	2SC455J	2059	2SC450A2302-17	2009	2SC478E	2009	2SC498R	2030
2SC389R	2016	2SC401	2059	2SC406I	2009	2SC455K	2059	2SC450AB	2009	2SC478F	2009	2SC498RED	2030
2SC389X	2016	2SC401AK	2059	2SC406K	2009	2SC455L	2059	2SC450B	2009	2SC478G	2009	2SC498X	2030
2SC389Y	2016	2SC401AL	2059	2SC406L	2009	2SC455M	2059	2SC450BL	2009	2SC478H	2009	2SC498Y	2030
2SC393	2009	2SC401B	2059	2SC406M	2009	2SC455OR	2059	2SC460C	2009	2SC478GN	2009	2SC499	2030
2SC394	2009	2SC401C	2059	2SC406OR	2009	2SC455R	2059	2SC460D	2009	2SC478J	2009	2SC499(R)	2030
2SC394(0)	2009	2SC401D	2059	2SC406R	2009	2SC455S	2059	2SC460E	2009	2SC478K	2009	2SC499(Y)	2030
2SC394(O)	2009	2SC401E	2059	2SC406S	2009	2SC455Y	2059	2SC460F	2009	2SC478L	2009	2SC499-OR	2030
2SC394-0	2009	2SC401F	2059	2SC406Y	2009	2SC457	2009	2SC460G	2009	2SC478M	2009	2SC499-R	2030
2SC394-GR	2009	2SC401G	2059	2SC423	2009	2SC458	2009	2SC460GB	2009	2SC478N	2009	2SC499-RED	2030
2SC394-GRN	2009	2SC401GN	2059	2SC423-O	2009	2SC458(C)	2009	2SC460GN	2009	2SC478R	2009	2SC499-Y	2030
2SC394-O	2009	2SC401H	2059	2SC423A	2009	2SC458(C,D)	2009	2SC460H	2009	2SC478S	2009	2SC499-YEL	2030
2SC394-OR	2009	2SC401J	2059	2SC423B	2009	2SC458(D)	2009	2SC460J	2009	2SC478T	2009	2SC499	2030
2SC394-ORG	2009	2SC401K	2059	2SC423C	2009	2SC458(LG)	2009	2SC460K	2009	2SC478V	2009	2SC499A	2030
2SC394-R	2009	2SC401L	2059	2SC423D	2009	2SC458-4	2009	2SC460L	2009	2SC478W	2009	2SC499-B	2030
2SC394-RED	2009	2SC401M	2059	2SC423E	2009	2SC488-5	2009	2SC460M	2009	2SC478X	2009	2SC499C	2030
2SC394-Y	2009	2SC401OR	2059	2SC423F	2009	2SC458-D	2009	2SC460N	2009	2SC478Y	2009	2SC499D	2030
2SC394-YEL	2009	2SC401R	2059	2SC423G	2009	2SC458-O	2009	2SC460R	2009	2SC478Z	2009	2SC499E	2030
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2SC394B	2009	2SC402	2059	2SC423J	2009	2SC458AD	2009	2SC461	2009	2SC479B	2009	2SC499H	2030
2SC394C	2009	2SC402A	2059	2SC423K	2009	2SC458AK	2009	2SC461(WF)	2009	2SC479C	2009	2SC499I	2030
2SC394D	2009	2SC402B	2059	2SC423L	2009	2SC458B	2009	2SC461-BF	2009	2SC479D	2009	2SC499J	2030
2SC394E	2009	2SC402C	2059	2SC423M	2009	2SC458BC	2009	2SC461-A	2009	2SC479E	2009	2SC499K	2030
2SC394F	2009	2SC402D	2059	2SC423OR	2009	2SC458B-D	2009	2SC461-B	2009	2SC479F	2009	2SC499L	2030
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2SC394GR	2009	2SC402G	2059	2SC423Y	2009	2SC458BL	2009	2SC461B	2009	2SC479I	2009	2SC499O	2030
2SC394GRN	2009	2SC402GN	2059	2SC424	2009	2SC458BLG	2009	2SC461BF	2009	2SC479J	2009	2SC499P	2030
2SC394H	2009	2SC402H	2059	2SC424D	2009	2SC458BM	2009	2SC461BK	2009	2SC479K	2009	2SC499Q	2030
2SC394J	2009	2SC402J	2059	2SC425	2009	2SC458BXL	2009	2SC461BL	2009	2SC479L	2009	2SC499R	2030
2SC394K	2009	2SC402K	2059	2SC425A	2009	2SC498C	2009	2SC461C	2009	2SC479M	2009	2SC499S	2030
2SC394L	2009	2SC402L	2059	2SC425B	2009	2SC458C/L6	2009	2SC461E	2009	2SC479N	2009	2SC499T	2030
2SC394M	2009	2SC402M	2059	2SC425C	2009	2SC458CL	2009	2SC461EP	2009	2SC479O	2009	2SC499U	2030
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2SC394OR	2009	2SC402R	2059	2SC425E	2009	2SC458CM	2009	2SC461L	2009	2SC479Q	2009	2SC499W	2030
2SC394R	2009	2SC402X	2059	2SC425F	2009	2SC458D	2009	2SC462	2009	2SC479R	2009	2SC499X	2030
2SC394RED	2009	2SC402Y	2059	2SC425G	2009	2SC458E	2009	2SC463	2016	2SC479S	2009	2SC499Y	2030
2SC394W	2009	2SC403	2059	2SC425GN	2009	2SC458F	2009	2SC463A	2016	2SC479T	2009	2SC499Z	2030
2SC394X	2009	2SC403(C)	2059	2SC425H	2009	2SC458G	2009	2SC463B	2016	2SC479U	2009	2SC499AA	2030
2SC394Y	2009	2SC403(SONY)	2059	2SC425K	2009	2SC458GLB	2009	2SC463C	2016	2SC479V	2009	2SC499AB	2030
2SC394YEL	2009	2SC403-OR	2059	2SC425L	2009	2SC458GN	2009	2SC463D	2016	2SC479W	2009	2SC499AC	2030
2SC395	2009	2SC403A	2059	2SC425M	2009	2SC458H	2009	2SC463E	2016	2SC479X	2009	2SC499AD	2030
2SC395A	2009	2SC403AL	2059	2SC425OR	2009	2SC458J	2009	2SC463F	2016	2SC479Y	2009	2SC499AE	2030
2SC395A-O	2009	2SC403B	2059	2SC425R	2009	2SC458K	2009	2SC463G	2016	2SC479Z	2009	2SC499AF	2030
2SC395A-ORG	2009	2SC403C	2059	2SC425S	2009	2SC458KA	2009	2SC463GN	2016	2SC480	2009	2SC499AG	2030
2SC395A-R	2009	2SC403CG	2059	2SC425Y	2009	2SC458KB	2009	2SC463J	2016	2SC480A	2009	2SC499AH	2030
2SC395A-RED	2009	2SC403D	2059	2SC426	2009	2SC458KC	2009	2SC463K	2016	2SC480B	2009	2SC499AI	2030
2SC395A-Y	2009	2SC403E	2059	2SC427	2009	2SC458KD	2009	2SC463L	2016	2SC480C	2009	2SC499AJ	2030
2SC395A-YEL	2009	2SC403F	2059	2SC428	2009	2SC458L	2009	2SC463M	2016	2SC480D	2009	2SC499AK	2030
2SC395B	2009	2SC403G	2059	2SC433	2009	2SC458L(C)	2009	2SC463OR	2016	2SC480E	2009	2SC499AL	2030
2SC395C	2009	2SC403GN	2059	2SC443	2030	2SC458LB	2009	2SC463R	2016	2SC480F	2009	2SC499AM	2030
2SC395D	2009	2SC403H	2059	2SC443A	2030	2SC458LB	2009	2SC463S	2016	2SC480G	2009	2SC499AN	2030
2SC395E	2009	2SC403J	2059	2SC443B	2030	2SC458LC	2009	2SC463T	2016	2SC480H	2009	2SC499AO	2030
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2SC395G	2009	2SC403L	2059	2SC443D	2030	2SC458LE	2009	2SC463V	2016	2SC480J	2009	2SC499AQ	2030
2SC395GN	2009	2SC403M	2059	2SC443E	2030	2SC458LG(B)	2009	2SC463W	2016	2SC480K	2009	2SC499AR	2030
2SC395H	2009	2SC403OR	2059	2SC443F	2030	2SC458LG(C)	2009	2SC463X	2016	2SC480L	2009	2SC499AS	2030
2SC395J	2009	2SC403R	2059	2SC443G	2030	2SC458LG(D)	2009	2SC463B	2009	2SC480M	2009	2SC499AT	2030
2SC395K	2009	2SC403X	2059	2SC443GN	2030	2SC458LGA	2009	2SC463H	2009	2SC480N	2009	2SC499AU	2030
2SC395L	2009	2SC403Y	2059	2SC443H	2030	2SC458LGB	2009	2SC463LGR	2009	2SC480O	2009	2SC499AV	2030
2SC395M	2009	2SC404	2059	2SC443J	2030	2SC458LGBM	2009	2SC472	2016	2SC480P	2009	2SC499AW	2030
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2SC397	2016	2SC404E	2059	2SC443R	2030	2SC458LGR	2009	2SC472E	2016	2SC480U	2009	2SC499BB	2030
2SC397A	2016	2SC404F	2059	2SC443X	2030	2SC458LGS	2009	2SC472F	2016	2SC480V	2009	2SC499BC	2030
2SC397B	2016	2SC404G	2059	2SC443Y	2030	2SC458M	2009	2SC472G	2016	2SC480W	2009	2SC499BD	2030
2SC397C	2016	2SC404GN	2059	2SC454	2009	2SC458BLG	2009	2SC472GN	2016	2SC480X	2009	2SC499BE	2030
2SC397D	2016	2SC404H	2059	2SC454(A)	2009	2SC458BOR	2009	2SC472H	2016	2SC480Y	2009	2SC499BF	2030
2SC397E	2016	2SC404J	2059	2SC454(B)	2009	2SC458B	2009	2SC472I	2016	2SC480Z	2009	2SC499BG	2030
2SC397F	2016	2SC404K	2059	2SC454-3	2009	2SC458BPGC	2009	2SC472K					

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2SC504H	2030	2SC536ET	2009	2SC538T	2009	2SC562G	2016	2SC587X	2009	2SC613A	2010
2SC504J	2030	2SC536EZ	2009	2SC539	2009	2SC562GN	2016	2SC587Y	2009	2SC613B	2010
2SC504K	2030	2SC536F	2009	2SC539(L)(K)	2009	2SC562H	2016	2SC588	2009	2SC613C	2010
2SC504L	2030	2SC536F1	2009	2SC539(R)	2009	2SC562J	2016	2SC588A	2009	2SC613D	2010
2SC504M	2030	2SC536F2	2009	2SC539K	2009	2SC562K	2016	2SC588B	2009	2SC613E	2010
2SC504OR	2030	2SC536FC	2009	2SC539L	2009	2SC562L	2016	2SC588C	2009	2SC613F	2010
2SC504R	2030	2SC536FF	2009	2SC539R	2009	2SC562M	2016	2SC588D	2009	2SC613G	2010
2SC504X	2030	2SC536FPD	2059	2SC539S	2009	2SC562OR	2016	2SC588E	2009	2SC613GN	2010
2SC509	2059	2SC536FPE	2059	2SC539T	2009	2SC562R	2016	2SC588F	2009	2SC613H	2010
2SC509(0)	2059	2SC536FFF	2059	2SC543	2020	2SC562X	2016	2SC588G	2009	2SC613J	2010
2SC509(O)	2059	2SC536F5	2009	2SC543A	2020	2SC562Y	2016	2SC588GN	2009	2SC613K	2010
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2SC509-O	2059	2SC536FZ	2009	2SC543C	2020	2SC563(3RDIF)	2016	2SC588J	2009	2SC613M	2010
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2SC529E	2009	2SC536SPE	2059	2SC544R	2010	2SC564GN	2009	2SC595A	2009	2SC620CD	2009
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2SC536D	2009	2SC538A-Q	2009								

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SC641G	2009	2SC649M	2009	2SC662G	2010	2SC682(B)	2016	2SC689GN	2009	2SC705L	2010	2SC711M	2009
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2SC645OR	2010	2SC658J	2010	2SC684G	2010	2SC687GN	2041	2SC696AH	2030	2SC710DE	2009	2SC715B	2009
2SC645R	2010	2SC658K	2010	2SC684GN	2010	2SC687H	2041	2SC696AI	2030	2SC710E	2009	2SC715C	2009
2SC645S	2010	2SC658L	2010	2SC684H	2010	2SC687J	2041	2SC696B	2030	2SC710F	2009	2SC715D	2009
2SC645X	2010	2SC658M	2010	2SC684K	2010	2SC687K	2041	2SC696BL	2030	2SC710G	2009	2SC715E	2009
2SC648	2009	2SC658OR	2010	2SC684L	2010	2SC687L	2041	2SC696C	2030	2SC710GN	2009	2SC715EJ	2009
2SC648A	2009	2SC658R	2010	2SC684M	2010	2SC687M	2041	2SC696D	2030	2SC710H	2009	2SC715EV	2009
2SC648B	2009	2SC658X	2010	2SC684OR	2010	2SC687OR	2041	2SC696E	2030	2SC710K	2009	2SC715F	2009
2SC648C	2009	2SC659	2010	2SC684R	2010	2SC687R	2041	2SC696F	2030	2SC710L	2009	2SC715G	2009
2SC648D	2009	2SC659A	2010	2SC684X	2010	2SC687X	2041	2SC696G	2030	2SC710M	2009	2SC715GN	2009
2SC648E	2009	2SC659B	2010	2SC684Y	2010	2SC687Y	2041	2SC696GN	2030	2SC710OR	2009	2SC715H	2009
2SC648F	2009	2SC659C	2010	2SC673	2016	2SC688	2058	2SC696GU	2030	2SC710P(BCE)	2009	2SC715J	2009
2SC648G	2009	2SC659D	2010	2SC673(B)	2016	2SC688A	2058	2SC696H	2030	2SC710R	2009	2SC715K	2009
2SC648H	2009	2SC659E	2010	2SC673B	2016	2SC688B	2058	2SC696I	2030				

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25C716K	2069	25C732S	2016	25C733G	2069	25C733G-#	2069	25C772CK	2058	25C784C	2058	25C789H	2020
25C716L	2069	25C732V	2016	25C733GN	2069	25C732G-Y	2069	25C772CL	2058	25C784D	2058	25C789J	2020
25C716M	2059	25C732V10	2016	25C733GR	2069	25C732H	2069	25C772C5	2058	25C784E	2058	25C789K	2020
25C716OR	2059	25C732V10	2016	25C733GRH	2069	25C732J	2069	25C772CU	2058	25C784F	2058	25C789L	2020
25C716R	2059	25C732X	2016	25C733H	2059	25C732K	2069	25C772CV	2058	25C784G	2058	25C789M	2020
25C716X	2059	25C732Y	2016	25C733J	2059	25C732L	2069	25C772CX	2058	25C784GN	2058	25C789OR	2020
25C716Y	2059	25C733	2016	25C733K	2059	25C732M	2069	25C772D	2050	25C784H	2058	25C789R	2020
25C717	2010	25C733(GR)	2016	25C733L	2059	25C732OR	2069	25C772DJ	2058	25C784J	2058	25C789S	2020
25C717B	2010	25C733-O	2016	25C733M	2059	25C732R	2069	25C772DU	2058	25C784K	2058	25C789Y	2020
25C717BK	2010	25C733-B	2016	25C733O	2059	25C732X	2069	25C772DV	2058	25C784L	2058	25C790	2020
25C717BLK	2010	25C733-BLU	2016	25C733OR	2069	25C732Y	2069	25C772DX	2058	25C784M	2058	25C790(O)	2020
25C717C	2010	25C733-G	2016	25C733ORN	2069	25C734	2069	25C772DY	2058	25C790-O	2058	25C790-O	2020
25C717E	2010	25C733-GRN	2016	25C733R	2069	25C735	2069	25C772E	2058	25C790Y	2060	25C790Y	2020
25C717F	2010	25C733-O	2016	25C733RED	2069	25C735OR	2069	25C772F	2058	25C793	2058	25C793	2020
25C717G	2010	25C733-OR	2016	25C733X	2059	25C736	2061	25C772G	2058	25C793-BLU	2058	25C793-BLU	2041
25C717GN	2010	25C733-ORG	2016	25C735Y	2059	25C761	2016	25C772GN	2058	25C793-R	2058	25C793-R	2041
25C717H	2010	25C733-Y	2016	25C735Y/4454C	2059	25C761(Y)	2016	25C772H	2058	25C793-RED	2058	25C793-RED	2041
25C717K	2010	25C733-YEL	2016	25C735YEL	2059	25C761A	2016	25C772J	2058	25C793-YEL	2058	25C793-YEL	2041
25C717L	2010	25C733A	2016	25C737	2069	25C761B	2016	25C772K	2058	25C793A	2058	25C793A	2041
25C717M	2010	25C733B	2016	25C737Y	2069	25C761C	2016	25C772KB	2058	25C793B	2058	25C793B	2041
25C717X	2010	25C733BL	2016	25C738	2010	25C761D	2016	25C772KC	2058	25C793BL	2058	25C793BL	2041
25C718	2009	25C733BLK	2016	25C738A	2010	25C761E	2016	25C772KD	2058	25C793C	2058	25C793C	2041
25C719	2059	25C733BLU	2016	25C738B	2010	25C761F	2016	25C772KD1	2058	25C793E	2058	25C793E	2041
25C719Q	2059	25C733C	2016	25C738C	2010	25C761G	2016	25C772KD2	2058	25C793F	2058	25C793F	2041
25C720	2016	25C733D	2016	25C738D	2010	25C761GN	2016	25C772L	2058	25C793G	2058	25C793G	2041
25C721	2009	25C733E	2016	25C738E	2010	25C761H	2016	25C772M	2058	25C793GN	2058	25C793GN	2041
25C722	2010	25C733ER	2016	25C738F	2010	25C761J	2016	25C772OR	2058	25C793H	2058	25C793H	2041
25C723	2010	25C733G	2016	25C738G	2010	25C761K	2016	25C772R	2058	25C793I	2058	25C793I	2041
25C723BL	2010	25C733G	2016	25C738GN	2010	25C761L	2016	25C772RB-D	2058	25C793K	2058	25C793K	2041
25C724	2059	25C733GN	2016	25C738H	2010	25C761M	2016	25C772RD	2058	25C793L	2058	25C793L	2041
25C724D	2059	25C733GR	2016	25C738I	2010	25C761OR	2016	25C772RS-D	2058	25C793M	2058	25C793M	2041
25C724G	2059	25C733GRN	2016	25C738M	2010	25C761R	2016	25C772S	2058	25C793-O	2058	25C793-O	2041
25C724V	2059	25C733H	2016	25C738L	2010	25C761X	2016	25C772Y	2058	25C793R	2058	25C793R	2041
25C724X	2059	25C733J	2016	25C738M	2010	25C761Y	2016	25C773	2059	25C793S	2058	25C793S	2041
25C725	2059	25C733K	2016	25C738OR	2010	25C761Z	2016	25C773(BCE)	2059	25C793T	2058	25C793T	2041
25C725-O	2059	25C733L	2016	25C738R	2010	25C762	2016	25C773(E)	2059	25C793U	2058	25C793U	2041
25C725B	2059	25C733M	2016	25C738X	2010	25C762B	2016	25C773A	2059	25C793V	2058	25C793V	2041
25C725G	2059	25C733O	2016	25C738Y	2010	25C762C	2016	25C773B	2059	25C793W	2058	25C793W	2041
25C725V	2059	25C733OR	2016	25C739	2010	25C762D	2016	25C773C	2059	25C793X	2058	25C793X	2041
25C725Y	2059	25C733Q	2016	25C739A	2010	25C762E	2016	25C773C(BCE)	2059	25C793Y	2058	25C793Y	2041
25C726	2009	25C733R	2016	25C739B	2010	25C762F	2016	25C773D	2059	25C793Z	2058	25C793Z	2041
25C727	2061	25C733S	2016	25C739C	2010	25C762G	2016	25C773D(BCE)	2059	25C794	2058	25C794	2020
25C727A	2061	25C733S-BL	2016	25C739D	2010	25C762H	2016	25C773E	2059	25C794A	2058	25C794A	2020
25C727B	2061	25C733V	2016	25C739F	2010	25C762I	2016	25C773E(BCE)	2059	25C794B	2058	25C794B	2020
25C727C	2061	25C733X	2016	25C739F	2010	25C762J	2016	25C773F	2059	25C794C	2058	25C794C	2020
25C727D	2061	25C733Y	2016	25C739G	2010	25C762K	2016	25C773G	2059	25C794D	2058	25C794D	2020
25C727E	2061	25C733YEL	2016	25C739GN	2010	25C762L	2016	25C773GN	2059	25C794E	2058	25C794E	2020
25C727F	2061	25C734	2059	25C739H	2010	25C762M	2016	25C773H	2059	25C794F	2058	25C794F	2020
25C727G	2061	25C734(O)	2059	25C739K	2010	25C762R	2016	25C773J	2059	25C794G	2058	25C794G	2020
25C727GN	2061	25C734(R)	2059	25C739L	2010	25C762X	2016	25C773K	2059	25C794H	2058	25C794H	2020
25C727H	2061	25C734(Y)	2059	25C739M	2010	25C762Y	2016	25C773L	2059	25C794I	2058	25C794I	2020
25C727J	2061	25C734-O	2059	25C739OR	2010	25C763	2010	25C773M	2059	25C794J	2058	25C794J	2020
25C727K	2061	25C734-G	2059	25C739R	2010	25C763-OR	2010	25C773OR	2059	25C794K	2058	25C794K	2020
25C727L	2061	25C734-GRN	2059	25C739Y	2010	25C763A	2010	25C773R	2059	25C794L	2058	25C794L	2020
25C727M	2061	25C734-O	2059	25C740	2010	25C763B	2010	25C773S	2059	25C794M	2058	25C794M	2020
25C727N	2061	25C734-OR	2059	25C740A	2010	25C763C	2010	25C773T	2059	25C794N	2058	25C794N	2020
25C727Y	2061	25C734-OY	2059	25C740B	2010	25C763CD	2010	25C773U	2059	25C794O	2058	25C794O	2020
25C728	2061	25C734-R	2059	25C740C	2010	25C763D	2010	25C773V	2059	25C794P	2058	25C794P	2020
25C728A	2061	25C734-RED	2059	25C740D	2010	25C763E	2010	25C773W	2059	25C794Q	2058	25C794Q	2020
25C728B	2061	25C734-YEL	2059	25C740E	2010	25C763F	2010	25C773X	2059	25C794R	2058	25C794R	2020
25C729C	2061	25C734A	2059	25C740F	2010	25C763G	2010	25C773Y	2059	25C794S	2058	25C794S	2020
25C729D	2061	25C734B	2059	25C740GN	2010	25C763H	2010	25C773Z	2059	25C794T	2058	25C794T	2020
25C729E	2061	25C734C	2059	25C740H	2010	25C763I	2010	25C774	2059	25C794U	2058	25C794U	2020
25C729F	2061	25C734D	2059	25C740J	2010	25C763K	2010	25C774A-G	2061	25C794V	2058	25C794V	2020
25C729G	2061	25C734E	2059	25C740K	2010	25C763L	2010	25C774AG-O	2061	25C794W	2058	25C794W	2020
25C729GN	2061	25C734F	2059	25C740L	2010	25C763M	2010	25C774AG-G	2061	25C794X	2058	25C794X	2020
25C729H	2061	25C734G	2059	25C740M	2010	25C763OR	2010	25C774AG-R	2061	25C794Y	2058	25C794Y	2020
25C729J	2061	25C734GN	2059	25C740OR	2010	25C763X	2010	25C774AG-Y	2061	25C794Z	2058	25C794Z	2020
25C729K	2061	25C734GR	2059	25C740R	2010	25C763Y	2010	25C774A-G	2061	25C795	2058	25C795	2020
25C729L	2061	25C734GRN	2059	25C740X	2010	25C764	2010	25C774B	2061	25C795A	2058	25C795A	2020
25C729M	2061	25C734H	2059	25C740Y	2010	25C765	2010	25C774C	2061	25C795B	2058	25C795B	2020
25C729N	2061	25C734J	2059	25C744	2060	25C765	2010	25C774D	2061	25C795C	2058	25C795C	2020
25C729P	2061	25C734K	2059	25C744A	2060	25C767	2010	25C774E	2061	25C795D	2058	25C795D	2020
25C729R	2061	25C734K/GR	2059	25C748	2060	25C771	2010	25C774F	2061	25C795E	2058	25C795E	2020
25C729S	2061	25C734L	2059	25C740A	2010	25C771A	2010	25C774G	2061	25C795F	2058	25C795F	2020
25C729T	2061	25C734M	2059	25C748C	2010	25C771B	2010	25C774H	2061	25C795G	2058	25C795G	2020
25C732-B	2016	25C734O	2059	25C748D	2010	25C771BX	2010	25C774I	2061	25C795H	2058	25C795H	2020
25C732-BLU	2016	25C734OR	2059	25C748E	2010	25C771C	2010	25C774J	2061	25C795I	2058	25C795I	2020
25C732-G	2016	25C734R	2059	25C748F	2010	25C771D	2010	25C774K	2061	25C795J	2058	25C795J	2020
25C732-GRN	2016	25C734RED	2059	25C748G	2010	25C771E	2010	25C774L	2061	25C795K	2058	25C795K	2020

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2SC814X	2009	2SC828AP	2009	2SC838(M)	2059	2SC850A	2009	2SC868K	2061	2SC876C	2030	2SC900R	2016
2SC814Y	2009	2SC828AQ	2009	2SC838(O)	2059	2SC850B	2009	2SC868L	2061	2SC876D	2030	2SC900S	2016
2SC815	2059	2SC828AR	2009	2SC838-2	2059	2SC850C	2009	2SC868M	2061	2SC876E	2030	2SC900SA	2016
2SC815(M)	2059	2SC828AS	2009	2SC838-O	2059	2SC850D	2009	2SC868OR	2061	2SC876F	2030	2SC900SB	2016
2SC815-1	2059	2SC828AT	2009	2SC838A	2059	2SC850E	2009	2SC868R	2061	2SC876G	2030	2SC900SC	2016
2SC815-O	2059	2SC828B	2009	2SC838B	2059	2SC850F	2009	2SC868X	2061	2SC876GN	2030	2SC900SD	2016
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2SC815F	2059	2SC828GM	2009	2SC838HF	2059	2SC850M	2009	2SC869F	2061	2SC876R	2030	2SC900A	2059
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2SC815H	2059	2SC828I	2009	2SC838K	2059	2SC850S	2009	2SC869J	2061	2SC876TV(E)	2030	2SC900D	2059
2SC815J	2059	2SC828L	2009	2SC838L	2059	2SC850Y	2009	2SC869K	2061	2SC876TVD	2030	2SC900E	2059
2SC815K	2059	2SC828LR	2009	2SC838M	2059	2SC851	2041	2SC869L	2061	2SC876TV-E	2030	2SC900F	2059
2SC815K.L	2059	2SC828LS	2009	2SC838S	2059	2SC858	2016	2SC869M	2061	2SC876TVE	2030	2SC900G	2059
2SC815L	2059	2SC828M	2009	2SC838W	2059	2SC858A	2016	2SC869OR	2061	2SC876TVEF	2030	2SC900H	2059
2SC815LJ	2059	2SC828N	2009	2SC839	2009	2SC858B	2016	2SC869R	2061	2SC876TV-F	2030	2SC900I	2059
2SC815M	2059	2SC828O	2009	2SC839(F)	2009	2SC858C	2016	2SC869X	2061	2SC876TVF	2030	2SC900J	2059
2SC815OR	2059	2SC828OR	2009	2SC839(H)	2009	2SC858D	2016	2SC869Y	2061	2SC876V	2030	2SC900K	2059
2SC815P	2059	2SC828P	2009	2SC839(J)	2009	2SC858E	2016	2SC870	2009	2SC876V-E	2030	2SC900L	2059
2SC815R	2059	2SC828PQ	2009	2SC839(JI)	2009	2SC858F	2016	2SC870A	2009	2SC876V-F	2030	2SC900M	2059
2SC815S	2059	2SC828Q	2009	2SC839(L)	2009	2SC858FG	2016	2SC870B	2009	2SC876V-F(E)	2030	2SC900N	2059
2SC815SA	2059	2SC828Q-6	2009	2SC839(M)	2009	2SC858G	2016	2SC870C	2009	2SC876V-F	2030	2SC900O	2059
2SC815SC	2059	2SC828QRS	2009	2SC839-E	2009	2SC858GA	2016	2SC870D	2009	2SC876V-F	2030	2SC900P	2059
2SC815X	2059	2SC828R	2009	2SC839-F	2009	2SC858GN	2016	2SC870E	2009	2SC876V-F	2030	2SC900Q	2059
2SC815Y	2059	2SC828R-1	2009	2SC839A	2009	2SC858H	2016	2SC870F	2009	2SC876V-F	2030	2SC900R	2059
2SC816	2030	2SC828RA	2009	2SC839B	2009	2SC858J	2016	2SC870G	2009	2SC876V-F	2030	2SC900S	2059
2SC816A	2030	2SC828RH	2009	2SC839C	2009	2SC858K	2016	2SC870H	2009	2SC876V-F	2030	2SC900T	2059
2SC816B	2030	2SC828RS	2009	2SC839D	2009	2SC858L	2016	2SC870I	2009	2SC876V-F	2030	2SC900U	2059
2SC816C	2030	2SC828RST	2009	2SC839E	2009	2SC858M	2016	2SC870J	2009	2SC876V-F	2030	2SC900V	2059
2SC816D	2030	2SC828RT	2009	2SC839F	2009	2SC858OR	2016	2SC870K	2009	2SC876V-F	2030	2SC900W	2059
2SC816E	2030	2SC828S	2009	2SC839G	2009	2SC858R	2016	2SC870L	2009	2SC876V-F	2030	2SC900X	2059
2SC816F	2030	2SC828T	2009	2SC839GN	2009	2SC858X	2016	2SC870M	2009	2SC876V-F	2030	2SC900Y	2059
2SC816G	2030	2SC828W	2009	2SC839H	2009	2SC858Y	2016	2SC870N	2009	2SC876V-F	2030	2SC900Z	2059
2SC816GM	2030	2SC828X	2009	2SC839J	2009	2SC859	2016	2SC870OR	2009	2SC876V-F	2030	2SC900A	2059
2SC816H	2030	2SC828Y	2009	2SC839JI	2009	2SC859A	2016	2SC870P	2009	2SC876V-F	2030	2SC900B	2059
2SC816K	2030	2SC828YL	2009	2SC839JH	2009	2SC859B	2016	2SC870R	2009	2SC876V-F	2030	2SC900C	2059
2SC816L	2030	2SC829	2009	2SC839J	2009	2SC859D	2016	2SC870S	2009	2SC876V-F	2030	2SC900D	2059
2SC816M	2030	2SC829(Y)	2009	2SC839K	2009	2SC859E	2016	2SC870T	2009	2SC876V-F	2030	2SC900E	2059
2SC816OR	2030	2SC829.A454C	2009	2SC839L	2009	2SC859F	2016	2SC870U	2009	2SC876V-F	2030	2SC900F	2059
2SC816R	2030	2SC829-OR	2009	2SC839M	2009	2SC859FG	2016	2SC870V	2009	2SC876V-F	2030	2SC900G	2059
2SC816X	2030	2SC829A	2009	2SC839N	2009	2SC859G	2016	2SC870W	2009	2SC876V-F	2030	2SC900H	2059
2SC816Y	2030	2SC829AK	2009	2SC839OR	2009	2SC859GL	2016	2SC870X	2009	2SC876V-F	2030	2SC900I	2059
2SC826	2030	2SC829B	2009	2SC839Q	2009	2SC859G	2016	2SC870Y	2009	2SC876V-F	2030	2SC900J	2059
2SC826A	2030	2SC829B.A454C	2009	2SC839R	2009	2SC859GM	2016	2SC870Z	2009	2SC876V-F	2030	2SC900K	2059
2SC826B	2030	2SC829BC	2009	2SC839S	2009	2SC859GN	2016	2SC870A	2009	2SC876V-F	2030	2SC900L	2059
2SC826C	2030	2SC829BJ	2009	2SC839X	2009	2SC859H	2016	2SC870B	2009	2SC876V-F	2030	2SC900M	2059
2SC826D	2030	2SC829BK	2009	2SC839Y	2009	2SC859J	2016	2SC870C	2009	2SC876V-F	2030	2SC900N	2059
2SC826E	2030	2SC829BY	2009	2SC847	2009	2SC859K	2016	2SC870D	2009	2SC876V-F	2030	2SC900O	2059
2SC826F	2030	2SC829C	2009	2SC847A	2009	2SC859L	2016	2SC870E	2009	2SC876V-F	2030	2SC900P	2059
2SC826G	2030	2SC829CL	2009	2SC847B	2009	2SC859M	2016	2SC870F	2009	2SC876V-F	2030	2SC900Q	2059
2SC826H	2030	2SC829D	2009	2SC847C	2009	2SC859OR	2016	2SC870G	2009	2SC876V-F	2030	2SC900R	2059
2SC826J	2030	2SC829E	2009	2SC847D	2009	2SC859R	2016	2SC870H	2009	2SC876V-F	2030	2SC900S	2059
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2SC826L	2030	2SC829G	2009	2SC847F	2009	2SC859Y	2016	2SC870J	2009	2SC876V-F	2030	2SC900U	2059
2SC826M	2030	2SC829GN	2009	2SC847G	2009	2SC860	2016	2SC870K	2009	2SC876V-F	2030	2SC900V	2059
2SC826OR	2030	2SC829H	2009	2SC847GN	2009	2SC860A	2016	2SC870L	2009	2SC876V-F	2030	2SC900W	2059
2SC826R	2030	2SC829K	2009	2SC847H	2009	2SC860B	2016	2SC870M	2009	2SC876V-F	2030	2SC900X	2059
2SC826X	2030	2SC829L	2009	2SC847J	2009	2SC860C	2016	2SC870N	2009	2SC876V-F	2030	2SC900Y	2059
2SC826Y	2030	2SC829M	2009	2SC847K	2009	2SC860D	2016	2SC870O	2009	2SC876V-F	2030	2SC900Z	2059
2SC827	2030	2SC829OR	2009	2SC847L	2009	2SC860E	2016	2SC870P	2009	2SC876V-F	2030	2SC900A	2059
2SC827A	2030	2SC829P	2009	2SC847M	2009	2SC860F	2016	2SC870Q	2009	2SC876V-F	2030	2SC900B	2059
2SC827B	2030	2SC829Q	2009	2SC847OR	2009	2SC860G	2016	2SC870R	2009	2SC876V-F	2030	2SC900C	2059
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2SC827D	2030	2SC829S	2009	2SC847X	2009	2SC860H	2016	2SC870T	2009	2SC876V-F	2030	2SC900E	2059
2SC827E	2030	2SC829X	2009	2SC848	2009	2SC860J	2016	2SC870U	2009	2SC876V-F	2030	2SC900F	2059
2SC827F	2030	2SC829Y	2009	2SC848A	2009	2SC860K	2016	2SC870V	2009	2SC876V-F	2030	2SC900G	2059
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2SC828(H)	2009	2SC837D	2058	2SC848M	2009	2SC863E	2016	2SC870H	2009	2SC876V-F	2030	2SC900S	2059
2SC828(N)	2009	2SC837E	2058	2SC848OR	2								

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2SC920-OR	2050	2SC926A	2061	2SC930DX	2010	2SC930E	2059	2SC947D	2016	2SC967R	2069	2SC971	2058
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2SC920D	2050	2SC926F	2061	2SC930EV	2010	2SC930S	2059	2SC947H	2016	2SC968B	2009	2SC977Y	2050
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2SC920L	2050	2SC926L	2061	2SC930J	2010	2SC941-0	2059	2SC947R	2016	2SC968GN	2009	2SC979E	2055
2SC920M	2050	2SC926M	2061	2SC930K	2010	2SC941-0Y	2059	2SC947S	2016	2SC968H	2009	2SC979F	2055
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2SC920X	2050	2SC926Y	2061	2SC930OR	2010	2SC941R	2059	2SC948B	2016	2SC968M	2009	2SC979N	2055
2SC920Y	2050	2SC927	2016	2SC930R	2010	2SC941TM-0	2059	2SC948D	2016	2SC968OR	2009	2SC979K	2055
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2SC921CL	2050	2SC927C(J)	2016	2SC933(G)	2029	2SC943D	2069	2SC948L	2016	2SC972A	2030	2SC1000A	2016
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2SC921GN	2010	2SC927D	2016	2SC933D	2029	2SC943H	2069	2SC948T	2016	2SC972F	2030	2SC1000E	2016
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2SC921J	2010	2SC927E-Z	2016	2SC933F	2029	2SC943J	2069	2SC948V	2016	2SC972GN	2030	2SC1000G	2016
2SC921K	2010	2SC927F	2016	2SC933E(F)	2029	2SC943L	2069	2SC949	2030	2SC972H	2030	2SC1000G-BL	2016
2SC921L	2010	2SC927G	2016	2SC933F	2029	2SC943M	2069	2SC949A	2030	2SC972I	2030	2SC1000G-GR	2016
2SC921M	2010	2SC927GN	2016	2SC933FF	2029	2SC943OR	2069	2SC949B	2030	2SC972J	2030	2SC1000GN	2016
2SC921OR	2010	2SC927H	2016	2SC933FP	2029	2SC943S	2069	2SC949C	2030	2SC972K	2030	2SC1000GR	2016
2SC921R	2010	2SC927J	2016	2SC933FFC	2029	2SC943X	2069	2SC949D	2030	2SC972M	2030	2SC1000H	2016
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2SC921X	2010	2SC927L	2016	2SC933FFE	2029	2SC944	2069	2SC949F	2030	2SC972R	2030	2SC1000J	2016
2SC921Y	2010	2SC927M	2016	2SC933FFF	2029	2SC944K	2069	2SC949G	2030	2SC972S	2030	2SC1000L	2016
2SC922	2010	2SC927OR	2016	2SC933FFG	2029	2SC944L	2069	2SC949H	2030	2SC972T	2030	2SC1000M	2016
2SC922A	2010	2SC927R	2016	2SC933GG	2029	2SC944Q	2069	2SC949I	2030	2SC972TV	2030	2SC1000OP	2016
2SC922B	2010	2SC927X	2016	2SC933GN	2029	2SC944R	2069	2SC949J	2030	2SC979	2009	2SC1000P	2016
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2SC923(E)(F)	2016	2SC928C	2016	2SC933OR	2029	2SC945-Q	2069	2SC949S	2030	2SC980GO	2009	2SC1004C	2055
2SC923A	2016	2SC928D	2016	2SC933R	2029	2SC945A	2069	2SC949T	2030	2SC980Y	2009	2SC1004D	2055
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2SC923C	2016	2SC929	2016	2SC933T	2029	2SC945A-P	2069	2SC949V	2030	2SC981	2009	2SC1004F	2055
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2SC923E	2016	2SC929(E)	2016	2SC934-0	2029	2SC945AP	2069	2SC949X	2030	2SC983	2009	2SC1004GN	2055
2SC923F	2016	2SC929-0	2016	2SC934A	2029	2SC945AQ	2069	2SC949Y	2030	2SC983-0	2009	2SC1004H	2055
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2SC1343	2041	2SC1390V	2009	2SC1540	2009	2SC1684QR	2059	2SC1834	2009	2SC2027	2055	2SC2320LE	2009
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2SC1343F	2041	2SC1390Y	2009	2SC1553	2016	2SC1685-O	2016	2SC1853	2009	2SC2057C	2058	2SC2375F	2061
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2SCF1M	2050	2SCS184E	2009	2SD29C	2020	2SD116	2041	2SD172GN	2041	2SD204(L)	2041	2SD227D	2009
2SCF1OR	2050	2SCS184J	2010	2SD29F	2020	2SD118	2041	2SD172H	2041	2SD204A	2041	2SD227E	2009
2SCF1R	2050	2SCS429	2058	2SD29GN	2020	2SD118BL	2041	2SD172I	2041	2SD204B	2041	2SD227F	2009
2SCF1X	2050	2SCS429A	2058	2SD29J	2020	2SD118R	2041	2SD172K	2041	2SD204BL	2041	2SD227G	2009
2SCF1Y	2050	2SCS429B	2058	2SD29K	2020	2SD118Y	2041	2SD172L	2041	2SD204C	2041	2SD227GN	2009
2SCF-2	2009	2SCS429C	2058	2SD29L	2020	2SD119	2041	2SD172M	2041	2SD204D	2041	2SD227H	2009
2SCF2	2007	2SCS429D	2058	2SD29M	2020	2SD119-BL	2041	2SD172OR	2041	2SD204E	2041	2SD227I	2009
2SCF2A	2007	2SCS429E	2058	2SD29OR	2020	2SD119-BLJ	2041	2SD172R	2041	2SD204F	2041	2SD227J	2009
2SCF2B	2007	2SCS429F	2058	2SD29R	2020	2SD119-R	2041	2SD172X	2041	2SD204G	2041	2SD227K	2009
2SCF2C	2007	2SCS429G	2058	2SD29X	2020	2SD119-RED	2041	2SD172Y	2041	2SD204GA	2041	2SD227L	2009
2SCF2D	2007	2SCS429GN	2058	2SD29Y	2020	2SD119-YEL	2041	2SD173	2041	2SD204GN	2041	2SD227M	2009
2SCF2E	2007	2SCS429H	2058	2SD33A	2016								

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2SD228OR	2059	2SD312D	2055	2SD327OR	2009	2SD3898P	2020	2SD654	2030	2S32A	1104	3-1477	1144
2SD228R	2059	2SD312E	2055	2SD327R	2009	2SD389L	2020	2SD661	2009	2S34A	1104	3A1	1114
2SD228X	2059	2SD312F	2055	2SD327Y	2009	2SD389LB	2020	2SD661S	2009	2S38A	1114	3A15	1141
2SD228Y	2059	2SD312G	2055	2SD328	2030	2SD389LBP	2020	2SD661T	2009	2S360A	1104	3A30	1141
2SD234	2020	2SD312GN	2055	2SD328S	2030	2SD389LP	2020	2SD662	2009	2SK47	2062	3A90	1123
2SD234-0	2020	2SD312H	2055	2SD330	2020	2SD389P	2020	2SD671	2020	2SK47M	2062	3A100	1114
2SD234-O	2020	2SD312J	2055	2SD330D	2020	2SD389Q	2020	2SD704	2020	2SK61	2035	3A152	1104
2SD234-ORG	2020	2SD312K	2055	2SD330E	2020	2SD389R	2020	2SD704D	2020	2SK61GR	2035	3A154	1104
2SD234-R	2020	2SD312L	2055	2SD331	2020	2SD390	2020	2SD704E	2020	2SK61Y	2035	3A156	1104
2SD234-RED	2020	2SD312M	2055	2SD334	2041	2SD390(0)	2020	2SD723	2020	2SM610B	2023	3A158	1114
2SD234-Y	2020	2SD312X	2055	2SD334A	2041	2SD390A	2020	2SD725	2055	2SN3841	2023	3A-200	1114
2SD234A	2020	2SD312Y	2055	2SD334R	2041	2SD390P	2020	2SD725-06	2055	2SO12	2020	3A200	1104
2SD234B	2020	2SD313	2048	2SD339	2041	2SD390Q	2020	2SD726	2020	2SO14	2016	3A252	1104
2SD234C	2020	2SD313(D,E)	2020	2SD340	2041	2SD392	2009	2SD726B	2020	2SO33	2041	3A254	1104
2SD234D	2020	2SD313(DE)	2020	2SD341	2041	2SD392(BCE)	2009	2SD726C	2020	2SO34	2041	3A256	1104
2SD234E	2020	2SD313A	2020	2SD341H	2041	2SD392C(BCE)	2009	2SD726D	2020	2SO35	2041	3A258	1114
2SD234F	2020	2SD313B	2020	2SD342	2020	2SD392D(BCE)	2009	2SD734	2009	2SO36	2041	3A300	1144
2SD234G	2020	2SD313C	2020	2SD343	2020	2SD392E(BCE)	2009	2SD734D	2009	2SO95A	2009	3A1510	1114
2SD234GA	2020	2SD313D	2020	2SD344	2020	2SD394	2055	2SD734E	2009	2SOO2	2061	3A2510	1114
2SD234GN	2020	2SD313DE	2020	2SD404	2020	2SD404	2020	2SD734F	2009	2SP405	2030	3AF2	1114
2SD234GR	2020	2SD313E	2020	2SD404G	2020	2SD404G	2020	2SD734G	2009	2SQ371	2010	3AF4	1144
2SD234H	2020	2SD313F	2020	2SD405	2020	2SD405	2060	2SD735-O	2009	2SR1K	1104	3A51	1104
2SD234J	2020	2SD313G	2020	2SD416	2055	2SD416	2055	2SD743	2020	2SR54	2030	3A52	1104
2SD234K	2020	2SD313GN	2020	2SD418	2060	2SD418	2055	2SD743A	2020	2SR173	2030	3B15	2007
2SD234L	2020	2SD313H	2020	2SD425	2055	2SD425	2041	2SD743R	2020	2T2P	2007	3B15-1	2007
2SD234M	2020	2SD313K	2020	2SD425-R	2055	2SD425-R	2041	2SD762	2020	2T3	2007	3B8-20801	1171
2SD234N	2020	2SD313L	2020	2SD425O	2055	2SD425O	2041	2SD762P	2020	2T14A	2007	3B8-20801	1104
2SD234OR	2020	2SD313M	2020	2SD426	2041	2SD762Q	2020	2SD762Q	2020	2T15X3	2010	3B51	1104
2SD234R	2020	2SD313N	2020	2SD426-R	2041	2SD778	2016	2SD778	2016	2T20	2007	3B52	1104
2SD234X	2020	2SD313R	2020	2SD427	2041	2SD778(BCE)	2009	2T40	2009	2T40	2009	3BZ-61	1114
2SD234Y	2020	2SD313Y	2020	2SD467	2020	2SD778Q	2016	2T41	2009	2T41	2009	3BZ61	1114
2SD235	2020	2SD314	2020	2SD467A	2020	2SD778Q(BCE)	2009	2T42	2009	2T42	2009	3C38(TRANSISTOR)	2010
2SD235(O)	2020	2SD314A	2020	2SD467AC	2020	2SD778R	2016	2T43	2009	2T43	2009	3C6030	1067
2SD235(Y)	2020	2SD314B	2020	2SD467B	2020	2SD778R(BCE)	2009	2T44	2009	2T44	2009	3C6100	1067
2SD235-O	2020	2SD314C	2020	2SD467C	2020	2SD779(BCE)	2009	2T172	2009	2T172	2009	3C51	1104
2SD235-R	2020	2SD314D	2020	2SD467D	2020	2SD7925	2055	2T201	2007	3C52	2007	3C52	1104
2SD235-ORG	2020	2SD314E	2020	2SD469	2041	2SD792T	2055	2T202	2009	3D51	2009	3D51	1104
2SD235-R	2020	2SD314F	2020	2SD474K	2016	2SD804	2020	2T203	2007	3D52	2007	3D52	1104
2SD235-RED	2020	2SD314GN	2020	2SD475A	2020	2SD804HP	2020	2T204	2007	3D53	2007	3D53	1114
2SD235-Y	2020	2SD314H	2020	2SD476A	2020	2SD804HP	2020	2T204A	2007	3D261	2007	3D261	1143
2SD235A	2020	2SD314AM	2020	2SD476B	2020	2SD820	2055	2T205	2007	3E05	2007	3E05	1141
2SD235B	2020	2SD314AN	2020	2SD476C	2020	2SD829	2010	2T205A	2007	3E-1	2009	3E-1	2009
2SD235C	2020	2SD314AR	2020	2SD476D	2020	2SD836	2068	2T230	2007	3E-2	2009	3E-2	2009
2SD235D	2020	2SD314AR	2020	2SD476E	2020	2SD836Q	2068	2T231	2007	3E2	2007	3E2	1143
2SD235E	2020	2SD314Y	2020	2SD476D	2020	2SD836R	2068	2T402	2009	3E-3	2009	3E-3	2009
2SD235F	2020	2SD315	2020	2SD476YL	2020	2SD837	2068	2T403	2009	3E-4	2009	3E-4	1123
2SD235G	2020	2SD315D	2020	2SD477	2020	2SD837A	2068	2T404	2009	3E-27	2007	3E-27	2007
2SD235GN	2020	2SD315E	2020	2SD492	2041	2SD837AB	2068	2T501	1104	3E-64	1104	3E-64	1104
2SD235GR	2020	2SD316	2041	2SD517	2055	2SD837AD	2068	2T502	1104	3E-65	1104	3E-65	1104
2SD235H	2020	2SD317	2020	2SD522	2041	2SD837AQ	2068	2T503	1104	3E51	1104	3E51	1104
2SD235J	2020	2SD317A	2020	2SD525	2020	2SD837AR	2068	2T504	1104	3E52	1104	3E52	1104
2SD235L	2020	2SD317A(F)	2020	2SD525-0	2020	2SD837R	2068	2T505	1104	3F30(SCR)	1067	3F30(SCR)	1067
2SD235LB	2020	2SD317A(F,P)	2020	2SD525-25R	2020	2SD843	2020	2T506	1114	3F60(SCR)	1067	3F60(SCR)	1067
2SD235M	2020	2SD317AF	2020	2SD525Y	2020	2SD843-O	2020	2T507	1114	3F100(SCR)	1067	3F100(SCR)	1067
2SD235OR	2020	2SD317AP	2020	2SD526A	2020	2SD843-Y	2020	2T509	1114	3F150(SCR)	1067	3F150(SCR)	1067
2SD235R	2020	2SD317F	2020	2SD526-O	2020	2SD854	2020	2T510	1114	3F51	1104	3F51	1104
2SD235RED	2020	2SD317P	2020	2SD531	2020	2SD854LB	2020	2T918	2009	3F52	2009	3F52	1104
2SD235RY	2020	2SD318	2020	2SD544	2020	2SD856M	2020	2T919	2010	3G2	2062	3G2	2062
2SD235X	2020	2SD318(O)	2020	2SD553	2020	2SD856MLB	2020	2T2001	2007	3G8	1104	3G8	1104
2SD235Y	2020	2SD318-O	2020	2SD562	2010	2SD856O	2020	2T2708	2009	3G152	1104	3G152	1104
2SD241	2041	2SD318A	2020	2SD570	2055	2SD856P	2020	2T2785	2009	3G154	1104	3G154	1104
2SD241H	2041	2SD318B	2020	2SD577	2020	2SD856Q	2020	2T2857	2009	3G156	1104	3G156	1104
2SD242	2020	2SD318P	2020	2SD581	2041	2SD856R	2020	2T115	2007	3G158	1114	3G158	1114
2SD243	2020	2SD318Q	2020	2SD581A	2041	2SD889	2016	2T32	2007	3G252	1104	3G252	1104
2SD244	2020	2SD322	2041	2SD589	2055	2SD889Q	2009	2T45A	2007	3G254	1104	3G254	1104
2SD256	2020	2SD322A	2041	2SD590	2030	2SD889R	2009	2T48	2007	3G256	1104	3G256	1104
2SD257	2020	2SD322B	2041	2SD591	2016	2SD918	2020	2T49	2007	3G258	1114	3G258	1114
2SD258	2020	2SD322C	2041	2SD591R	2016	2SD1012	2009	2T52	2007	3G1510	1114	3G1510	1114
2SD259	2020	2SD323	2041	2SD592	2009	2SD1012F	2009	2T53	2007	3G2510	1114	3G2510	1114
2SD288	2020	2SD323A	2041	2SD592R	2009	2SD1012GI	2009	2T56	2007	3GA	1104	3GA	1104
2SD288A	2020	2SD323B	2041	2SD599	2016	2SD1318	2030	2T595	2007	3G51	1104	3G51	1104
2SD288B	2020	2SD323C	2041	2SD603	2055	2SD2340	2020	2T595A	2007	3G52	1104	3G52	1104
2SD288C	2020	2SD325	2020	2SD603O	2055	2SD2350	2020	2V362	2007	3G261	1144	3G261	1144
2SD288K	2020	2SD325-OR	2020	2SD381	2020	2SD-FIA	2007	2V363	2007	3H51	1104	3H51	1104
2SD288L	2020	2SD325A	2020	2SD381K	2020	2SDU84GN	2030	2V464	2007	3H52	1104	3H52	1104
2SD289	2020	2SD325B	2020	2SD381L	2020	2SE629	2010	2V465	2007	3J15	1067	3J15	1067
2SD289A	2020	2SD325C	2020	2SD381M	2020	2SE4002	2016	2V466	2007	3J30	1067	3J30	1067
2SD289B	2020	2SD325D	2020	2SD381N	2020	2SF101	1067	2V467	2007	3J60	1067	3J60	1067
2SD289C	2020	2SD325E	2020	2SD382	2020	2SD636(BCE)	2009	2V482	2007	3J100	1067	3J100	1067
2SD292-0	2020	2SD325F	2020	2SD382K	2020	2SD636-0	2009	2V483	2007	3K15	1067	3K15	1067
2SD292A	2020	2SD325G	2020	2SD382L	2020	2SD636-O	2009	2V484	2007	3L4-2001	1123	3L4-2001	1123
2SD292B	2020	2SD325GN	2020	2SD382LM	2020	2SD636O(BCE)	2009	2V485	2007	3L4-2001-1	1123	3L4-2001-1	1123
2SD292BL	2020	2SD325H	2020	2SD382M	2020	2SD636P	2009	2V486	2007	3L4-2001-1A	1123	3L4-2001-1A	1123
2SD292D	2020	2SD325J	2020	2SD382N	2020	2SD636Q(BCE)	2009	2V559	2007	3L4-2001-3	1102	3L4-2001-3	1102
2SD292E	2020	2SD325K	2020	2SD389	2020	2SD636Q	2009	2V560	2007	3L4-2001-4	1102	3L4-2001-4	1102
2SD292F	2020	2SD325L	2020	2SD389(O)	2020	2SD636R	2009	2V561	2007	3L4-2003-1	1123	3L4-2	

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3L4-6005-55	2020	3N133	2023	4-2020-05800	1102	4-3025764	2010	4K30	1067	5MA5	1104	6-9029-15D	2029
3L4-6007-02	2009	3N134	2023	4-2020-06100	1102	4-3025765	2010	4K60	1067	5MA6	1104	6-9029-15E	2009
3L4-6007-03	2009	3N135	2023	4-2020-06200	1102	4-3025766	2009	4K100	1067	5MA8	1114	6-59010	1104
3L4-6007-04	2009	3N136	2023	4-2020-06400	1102	4-3025767	2010	4L30	1067	5MA10	1114	6-1260859	2007
3L4-6007-08	2009	3N256	1173	4-2020-06800	1104	4-3540012	1104	4L100	1067	5MAK	1104	6-1260039A	2007
3L4-6007-09	2009	3RC25	1020	4-2020-07300	1104	4-202003571	1123	45D46-2	1123	5MF1	1104	6-4450036	2009
3L4-6007-1	2009	3RC30	1020	4-2020-07500	561	4-202104170	1104	4T6.2	561	5MS5	1104	6-6490004	2041
3L4-6007-2	2009	3RC30A	1020	4-2020-07600	1104	4-202104970	1102	4T6.2A	561	5MS10	1104	6A8-1A5L	2007
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3L4-6007-10	2016	3S05E	1141	4-2020-08001	1102	4A8-1A5	2007	4T502	1104	5MS40	1104	6A10422	2009
3L4-6007-11	2016	3S1E	1143	4-2020-08200	1102	4A8-1A7-1	2007	4T503	1104	5MS50	1104	6A10423	2009
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3L4-6007-13	2016	3S3E	1144	4-2020-08900	1104	4A14DX520	1104	4T505	1104	5O	1123	6A10624	2007
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3L4-6007-15	2016	3S4M	1020	4-2020-8700	1114	4C29	2030	4T507	1114	6-0000155A	2007	6A10855	2009
3L4-6007-16	2016	3SA324	2007	4-2020-10100	1102	4C30	2030	4T508	1114	6-000105	2007	6A11180	2009
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3L4-6007-17	2010	3T506	1104	4-2021-05170	1124	4G8	1114	5-30095.1	1104	6-04S1	2009	6A12684	2007
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3L4-6011-1	2026	3T510	1114	4-2021-08270	1104	4H1304-1084	2061	5-30099.4	1104	6-13	2007	6A12789	2009
3L4-6011-9	2027	3TRCF	1020	4-2021-09370	1104	4I39104002	1104	5-30106.1	1104	6-19	2009	6A12889	2007
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3L4-6012-55	2020	4-0294	2041	4-68681-2	2007	4JA16MR700M	1114	5-530106.1001	1114	6-53F	2007	6D122V	2007
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21M152	2010	23-0018	1104	24MW152	2007	24MW773								

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2000-205	2058	2032-34	2010	2057A2-234	2030	2057A2-468	2030	2057B2-94	2007	2061A45-93	1102	2093A41-148	1123
2000-206	2009	2032-37	2009	2057A2-237	2010	2057A2-475	2010	2057B2-97	2009	2061B45-35	1104	2093A41-151	1104
2000-209	2030	2032-38	2411	2057A2-241	2007	2057A2-477	2007	2057B2-99	2007	206A-17	2016	2093A41-152	1104
2000-210	2009	2032-40	2009	2057A2-249	2016	2057A2-478	2010	2057B2-101	2010	2063 17-12	2009	2093A41-154	1123

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2093B4-6	1104	2190-152	2010	2427	2010	2606-286	2007	3013	2007	3517	2007	3565-1	2009
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2093B38-14	1104	2181-17	2023	2443(RCA)	2009	2606-292	2007	3017	2023	3519	2016	3568	2016
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2106 123	2007	2281-13	1123	2490A	2007	2795A	562	3107-204-90150	2016	3536	2009	3597-1	2023
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2119 101-4896	1759	2291-17	2010	2495-166-1	2010	2856-2	2020	(HARMON-KARDON)	3539-307-001	2010	3603-1	2009	
2121-17	2016	2300.036.096	2023	2495-166-2	2009	2900-007	2010		3539-307-002	2010	3604	2010	
2122-3	2060	2302	1104	2495-166-4	2010	2904-003	2009	3221	3540(RCA)	2023	3604(RCA)	2010	
2122-17	1123	2302-17	2059	2495-166-8	2010	2904-016	2007	(HARMON-KARDON)	3540-1	2023	3604-3	2009	
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2139-103-3802	2023	2328	1102	2495-488-1	2007	2904-038H05	2007	3301(SEARS)	2010	3544(RCA)	2030	3608-2(RCA)	2030
2139-103-4001	2023	2328-17	1102	2495-488-2	2007	2904-045	2009	3322-6	1123	3544-1	2009	3608-2(RCA)	2030
2139-301-0401	2058	2330-191	1114	2495-489	1114	2904-053	2058	3367	2060	3546	2009	3610	2010
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2148-17	1104	2362-1(SYLVANIA)	2010	2495-567-3	2007	3001	2010	3434	2007	3549-2(RCA)	2023	3616-1	2023
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2152	1104	2402-457	2007	2498-903-2	2010	3008	2007	3506(RCA)	2009	3555	2030	3625	2009

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3662-2	2055	4013BFM	2413	4450	2007	4686-107-3	2010	4822-130-30311	1123	5001-197	565	5613-535	2010
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4001-224	2007	4167(SEARS)	2010	4491-7	2041	4737	2009	4856-0109	2009	5301-06-1	1104	6136	2009
4001-225	2007	4168	2009	4491-8	2020	4745	2020	4856-0110	2009	5301-06-1001	1114	6151	2030
4001-226	2007	4168(PENNCREST)	2016	4501	2007	4746	2010	4857	2058	5301-09-1	1104	6151(RCA)	2030
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4006	561	4306	2030	4563	2007	4801-0000-060	2023	5001-043	2016	5513	565	6380-3	2020
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		(HARMON-KARDON)		4565	2007	4801-00628	1123	5001-053	2020	5522-8	1143	6382-2	2020
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4007(SEARS)	1123	4309(AIRLINE)	2009	4586	2007	4801-00801	562	5001-069	2009	5565-001	2041	6440	2007
4008(E.F. JOHNSON)		4310(AIRLINE)	2023	4587	2010	4801-1100-0011	2009	5001-070	2059				

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A05	1104	A068-113	2009	A1M9	1114	A2T919	2010	A4F5	1104	A5T3645	2023	A7-13	2041
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A054-155	2009	A069-120	2009	A1R-1	2010	A3C3	1104	A4K1	1114	A5T4561	2023	A7D	1104
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A9-175	2016	A15U(RECTIFIER)	1141	A48-134925	2010	A77C	2007	A109	2007	A152	2007	A206	2007
A9A	2010	A15U(TRANSISTOR)	2007	A48-134926	2010	A77D	2007						

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A246	2009	A337	2007	A417-153	2025	A474	2007	A580Q	2023	A628A	2023	A673AS	2023
A246(AMC)	2009	A338	2007	A417-154	2010	A476	2007	A550R	2023	A628D	2023	A673ASC	2023
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A246V	2007	A341-0A	2007	A417-182	2023	A478	2007	A556-142	1123	A628F	2023	A673C	2023
A247(JAPAN)	2007	A341-0B	2007	A417-184	2023	A479	2007	A561	2023	A629	2023	A673CD	2023
A248	2009	A341-0B	2007	A417-190	2010	A480	2010	A561-O	2023	A640	2023	A673D	2023
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A248(JAPAN)	2007	A342A	2007	A417-200	2023	A481	2016	A561-Y	2023	A640A	2023	A675	2023
A249	2009	A343	2007	A417-201	2023	A481A0028	2009	A561GR	2023	A640B	2023	A675A	2023
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A251	2007	A345	2009	A418	2010	A482	2016	A562-O	2023	A640E	2023	A677	2023
A252	2007	A345(JAPAN)	2007	A419	2010	A482(JAPAN)	2023	A562-R	2023	A640L	2023	A678	2023
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A254	2007	A346(JAPAN)	2007	A420	2010	A484(ADM. RAL)	2016	A562G	2023	A640S	2023	A679	2043
A255	2007	A347	2007	A420(JAPAN)	2007	A484(ZENITH)	2010	A562GR	2023	A641	2023	A679R	2043
A256	2007	A348	2007	A421	2007	A486	2016	A562R	2023	A641(JAPAN)	2023	A679Y	2043
A257	2007	A349	2007	A422	2007	A488-A0801	1102	A562Y	2023	A641(NPN)	2009	A680	2043
A258	2007	A350	2007	A422-A	1104	A488-A0803	1103	A564	2023	A641(PBP)	2023	A680R	2043
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A261	2007	A350H	2007	A427	2010	A489-O	2027	A564A	2023	A641B	2023	A691M4	1102
A262	2007	A350R	2007	A427(JAPAN)	2010	A489-R	2027	A564ABQ	2023	A641C	2023	A691M5	1102
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A265	2007	A350Y	2007	A430(JAPAN)	2007	A490(JAPAN)	2027	A564AQ	2023	A641M	2023	A692T5-0	1104
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AC162	2007	AD29E5	2023	AF144	2007	AJ30	1104	AN240*	1759	AR202(GREEN)	2010	ASY63N	2007
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AC165	2007	AD29E9	2023	AF149	2007	AJ60	1104	AN240PN	1759	AR203(RED)	2030	ASY70-V	2009
AC-166	2007	AD29E10	2023	AF150	2007	AL210	2007	AN240S	1759	AR203R	2030	ASY70-VI	2007
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AC184	2007	AD4003	1114	AF-182	2007	AM-035	1104	AO4212-B	1104	AR218(ORANGE)	2016	AT0025	2059
AC-186(PNP)	2007	AD4004	1114	AF182	2007	AM035	1104	AO4233	1104	AR218(RED)	2016	AT0025A	2059
AC191	2007	AD4005	1114	AF185	2007	AM040	1104	AO4234-2	562	AR218(RO)	2016	AT0045	2059
AC192	2007	AD4006	1114	AF186	2007	AM050	1104	AO4716	1104	AR218RO	2016	AT/AF1	2007
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ACY30	2007												

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AT442	2030	B0407130	2413	B3G1	1104	B6M1	1114	B43	2007	B110(TRANSISTOR)	2007	B178-O	2007
AT443	2030	B-722246-2	2009	B3G5	1104	B6M5	1114	B43A	2007	B111	1102	B178-S	2007
AT444	2030	B1A1	1104	B3G9	1104	B6M9	1114	B44	2007	B111K	2007	B178A	2007
AT445	2030	B1A5	1104	B3H1	1114	B6P	2009	B46	2007	B112	2007	B178C	2007
AT446	2030	B1A9	1104	B3H5	1114	B7A1	1114	B47	2007	B113	2007	B178D	2007
AT451	2023	B1B	1104	B3H9	1114	B7A5	1114	B48	2007	B114	2007	B178M	2007
AT451-1	2023	B1B1	1104	B3K1	1114	B7A9	1114	B49	2007	B115	2007	B178N	2007
AT452	2023	B1B5	1104	B3K5	1114	B7B1	1114	B50	2007	B116	2007	B178T	2007
AT452-1	2023	B1B9	1104	B3K9	1114	B7B5	1114	B51	1104	B117	2007	B178U</	

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B186(0)	2007	B303-3	2007	B444B	2007	B4004B	2007	BA104	1104	BC20C	2016	BC152	2009
B186(SANYO)	2007	B303A	2007	B459	2007	B5000	2020	BA105	1104	BC258B	2023	BC153	2023
B106-1	2007	B303E	2007	B459-O	2007	B5002	2020	BA108	1104	BC45B	2009	BC153-1	2023
B186-K	2007	B303C	2007	B459A	2007	B5020	2041	BA114	1102	BC-71	2009	BC154	2023
B186A	2007	B303H	2007	B459B	2007	B5021	2020	BA119	1104	BC71	2009	BC154-1	2023
B186AG	2007	B303K	2007	B459C	2007	B5022	2020	BA127	1104	BC103	2030	BC155	2010
B186B	2007	B314	2007	B459D	2007	B5031	2020	BA128	1104	BC103C	2030	BC155A	2010
B186BY	2007	B315	2007	B460	2007	B5032	2020	BA129	1104	BC-107	2009	BC155B	2009
B186G	2007	B316	2007	B460A	2007	B-6002	564	BA130	1104	BC107	2009	BC155C	2016
B186H	2007	B317	2007	B460B	2007	B-6288	2023	BA136A	1141	BC-107A	2009	BC156	2010
B186L	2007	B321	2007	B470	2007	B-6340	2030	BA-142-01	1104	BC107A	2009	BC156A	2010
B186Y	2007	B322	2007	B475	2007	B9426	2010	BA142-01	1104	BC107B	2009	BC156B	2009
B187	2007	B323	2007	B475A	2007	B-12822-2	2041	BA147	1102	BC-108	2009	BC156C	2016
B187(1)	2007	B326	2007	B475B	2007	B17307	2041	BA153	1104	BC108	2009	BC157	2023
B187(SANYO)	2007	B327	2007	B475D	2007	B36564	1104	BA167	1102	BC108A	2009	BC157-1	2023
B187AA	2007	B328	2007	B475E	2007	B54731-30	2023	BA168	1102	BC-108B	2009	BC157A	2023
B187B	2007	B329	2007	B475F	2007	B-75561-31	2023	BA170	1102	BC108B	2009	BC157B	2023
B187C	2007	B329K	2007	B475G	2007	B-75568-2	2010	BA174	1102	BC108C	2009	BC157V1	2061
B187D	2007	B335	2007	B475P	2007	B-75583-1	2009	BA178	1141	BC109	2009	BC158	2023
B187G	2007	B336	2007	B475Q	2007	B-75583-2	2009	BA187	1102	BC-109B	2009	BC158-1	2023
B187K	2007	B345	2007	B482	2007	B-75583-202	2009	BA202	1103	BC109B	2009	BC158A	2023
B187R	2007	B346	2007	B486	2007	B-75583-102	2009	BA208	2055	BC109BP	2009	BC158A-1	2023
B187RED	2007	B346K	2007	B496	2007	B-75589-3	2009	BA216	1102	BC109C	2009	BC158B	2023
B187S	2007	B346G	2007	B497	2007	B-75589-13	2009	BA219	1102	BC110	2009	BC158B-1	2023
B187Y	2007	B347	2007	B498	2007	B-75608-3	2009	BA243A	1103	BC111	2010	BC158C	2023
B187YEL	2007	B348	2007	B507	2027	B133550	2041	BA244	1102	BC112	2010	BC158V1	2061
B188	2007	B348G	2007	B508	2027	B133577	2041	BA316	1102	BC113	2009	BC159	2023
B189	2007	B348R	2007	B509	2027	B133578	2009	BA317	1103	BC 114	2009	BC159-1	2023
B199	2007	B349	2007	B511	2027	B133684	2041	BA1003	2060	BC114	2009	BC159A	2023
B200	2007	B350	2007	B511C	2027	B133685	2041	BAC-SHIMI	1103	BC114TR	2009	BC159A-1	2023
B200A	2007	B370	2007	B511D	2027	B143004	2020	BACSH2M1	2009	BC115	2009	BC159B	2023
B200C40	1104	B370A	2007	B512	2027	B143011	2020	BACSH2M2	2009	BC116	2023	BC159B-1	2023
B201	2007	B370AA	2007	B513	2027	B143012	2020	BACSH2M3	2009	BC116A	2023	BC159C	2023
B202	2007	B370AB	2007	B514	2027	B143018	2020	BACSHIMI	1103	BC117	2030	BC167	2009
B218	2007	B370AC	2007	B515	2027	B143019	2020	BACSIM1	1103	BC118	2009	BC-167-B	2009
B219	2007	B370AMC	2007	B516C	2007	B143026	2020	BACT2F	2020	BC-119	2009	BC167A	2059
B220	2007	B370AMB	2007	B516CD	2007	B143027	2020	BAW10TF20	1102	BC-121	2009	BC167B	2059
B220A	2007	B370M	2007	B516D	2007	B170000	2041	BAW11TF21	1102	BC121	2010	BC168	2009
B221	2007	B370C	2007	B516P	2007	B170000-B	2055	BAW12TF22	1102	BC-122	2009	BC168A	2059
B221A	2007	B370D	2007	B532	2043	B170000-ORG	2041	BAW13TF23	1102	BC122	2010	BC168B	2059
B222	2007	B370P	2007	B532P	2043	B170000-ORN	2041	BAW16	1102	BC-123	2009	BC168C	2059
B223	2007	B370PB	2007	B532Q	2043	B170000-R	2041	BAW17	1102	BC123	2010	BC169	2009
B223-10	1114	B370V	2007	B532R	2043	B170000-RED	2041	BAW18	1102	BC125	2009	BC-169-C	2009
B223-30	1114	B371	2007	B532S	2043	B170000-Y	2041	BAW24	1102	BC125A	2009	BC169A	2009
B223-40	1114	B371D	2007	B534	2007	B170000BLK	2041	BAW24A	1102	BC125B	2009	BC-169B	2009
B223-50	1114	B376	2007	B534A	2007	B170000BRN	2041	BAW24B	1102	BC126	2023	BC169B	2009
B223-60	1114	B376G	2007	B555	2043	B170001	2041	BAW25	1102	BC126-1	2023	BC-169C	2009
B224	2007	B377	2007	B555-0	2043	B170001-B	2041	BAW25A	1102	BC127	2016	BC169C	2009
B224(JAPAN)	2007	B377B	2007	B555-O	2043	B170001-BLK	2041	BAW25B	1102	BC128	2016	BC169CL	2009
B225	2007	B378	2007	B561	2023	B170001-BRN	2041	BAW45	1102	BC129	2009	BC170	2016
B226	2007	B378A	2007	B561B	2023	B170001-O	2041	BAW53	1102	BC129A	2009	BC170A	2016
B227	2007	B379	2007	B561C	2023	B170001-ORG	2041	BAW59	1102	BC129B	2009	BC170B	2016
B238C18	2009	B379-2	2007	B601-1006	2007	B170001-R	2041	BAW59A	1102	BC130	2009	BC170C	2016
B240	2007	B379A	2007	B601-1007	2007	B170001-RED	2041	BAW59B	1102	BC130A	2009	BC171	2009
B240A	2007	B379B	2007	B601-1008	2007	B170001-Y	2041	BAW62	1103	BC130B	2009	BC171A	2009
B241	2007	B380	2007	B601-1009	2007	B170001BLK	2041	BAW63A	1102	BC131	2009	BC171B	2009
B250C7K45	1104	B380A	2007	B601-1011	1123	B170001BRN	2041	BAW63B	1102	BC131B	2009	BC172	2009
B250C75	1104	B381	2007	B601-1012	1104	B170002	2041	BAW99	1102	BC132	2009	BC172A	2009
B250C75K4	1104	B382	2007	B614-007-0	1102	B170002-BLK	2041	BAX12	1104	BC132A	2009	BC172B	2009
B250C75K5	1104	B383	2007	B692X13	1123	B170002-BRN	2041	BAX-13	1103	BC134	2009	BC172C	2009
B250C75K41	1104	B383-1	2007	B1022	2007	B170002-O	2041	BAX13	1103	BC135	2009	BC173	2016
B250C75K45	1104	B383-2	2007	B1022-1	2007	B170002-ORG	2041	BAX-16	1102	BC135A	2016	BC173-B	2030
B250C100	1104	B384	2007	B-1058	2007	B170002-R	2041	BAX16	1102	BC136	2009	BC173A	2016
B250C100TD	1104	B385	2007	B1058	2007	B170002-RED	2041	BAX28	1102	BC137	2023	BC173B	2016
B250C125	1104	B386	2007	B1058-1	2007	B170002-Y	2041	BAX30	1102	BC137-1	2023	BC173C	2016
B250C125K4	1104	B387	2007	B1154	2007	B170003	2041	BAX74	1102	BC-138	2030	BC174	2030
B250C125N2	1104	B389	2007	B1154-1	2007	B170003-B	2055	BAX87	1102	BC138	2030	BC174A	2030
B250C125K4	1104	B392	2007	B1202	1104	B170003-O	2041	BAX87A	1102	BC139A	2061	BC174B	2030
B250C150	1104	B393	2007	B-1328	2009	B170003-R	2041	BAX88TF11	1102	BC-140	2030	BC175	2009
B250C150K4	1104	B394	2007	B-1421	2009	B170003-Y	2041	BAX89A	1102	BC140-6	2030	BC177	2023
B257	2007	B395	2007	B-1426	2023	B170004	2041	BAX91C/TF102	1103	BC140-10	2030	BC177-1	2023
B261	2007	B396	2007	B-1433	2009	B170004-B	2041	BAX95TF600	1103	BC140-16	2030	BC177A	2023
B262	2007	B400	2007	B-1501U	1104	B170004-R	2041	BA1Y15	1114	BC-140A	2030	BC177A-1	2023
B263	2007	B400A	2007	B-1599	1102	B170004-Y	2041	BA1Y16	1114	BC-140B	2030	BC177B	2023
B264	2007	B400E	2007	B-1666	2009	B170005	2041	BA1Y17	1102	BC-140C	2030	BC177B-1	2023
B265	2007	B400K	2007	B-1702	1102	B170005-B	2041	BA1Y18	1102	BC-140D	2030	BC177V	2023
B266	2007	B401	2007	B-1823	2020	B170005-O	2041	BA1Y19	1102	BC-141	2030	BC177V-1	2023
B266A-1	2023	B402	2007	B-1842	2009	B170005-R	2041	BA1Y20	1102	BC141	2030	BC177V-1	2023
B266B-1	2023	B403	2007	B-1872	2009	B170005-Y	2041	BA1Y23	1114	BC141-06	2030	BC177V1-1	2023
B266P	2007	B408	2007	B-1881U	1104	B170006	2041	BA1Y31	1102	BC141-6	2030	BC178	2023
B266Q	2007	B411	2027	B-1882U	1104	B170006-B	2055	BA1Y36	1102	BC141-10	2030	BC178-1	2023
B267	2007	B416	2007	B-1910	2016	B170007	2041	BA1Y41	1102	BC141-16	2030	BC178A	2023
B268	2007	B417	2007	B2090	562	B170009	2041	BA1Y41A	1102	BC-142	2030	BC178A-1	2023
B269	2007	B421	2007	B2406C	1104	B170010	2041	BA1Y41B	1102	BC142	2030	BC178B	2023
B269-3345	1103	B422	2007	B2406D	1104	B170011	2041	BA1Y44	1104	BC144	2030	BC178B-1	2023
B270	2007	B423	2007	B2804D	1104	B170012	2041	BA1Y52	1102	BC146	2016	BC178C	2023
B270A	2007	B427	2007	B3030	2007	B170013	2041	BA1Y64	1104	BC146G	2009	BC178D	2023
B270B	2007	B428	2007	B3045	2020	B170014	2041	BA1Y68	1102	BC146R	2009	BC178D-1	2023
B270C	2007	B434	2027	B3046	2020	B170015	2041	BA1Y72	1102	BC146Y	2009	BC178E	202

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BC182K	2016	BC209B	2009	BC239-5	2009	BC281C-1	2023	BC337-16	2009	BC520C	2016	BCW61BD	2023
BC182KA	2009	BC209BL	2009	BC239-18	2009	BC282	2009	BC338	2009	BC521	2016	BCW61C	2023
BC182KB	2009	BC209C	2009	BC239A	2016	BC283	2023	BC338-16	2009	BC521C	2016	BCW61D	2023
BC182L	2059	BC209CL	2009	BC239B	2016	BC283-1	2023	BC338-40	2009	BC521D	2016	BCW62	2023
BC182LA	2059	BC210	2009	BC239C	2016	BC284	2009	BC340-6	2030	BC522	2016	BCW62A	2023
BC183	2009	BC211	2030	BC250	2023	BC284A	2009	BC340-10	2030	BC522C	2016	BCW63	2023
BC183A	2009	BC212	2023	BC250-1	2023	BC284B	2009	BC340-16	2030	BC522D	2016	BCW63A	2023
BC183B	2009	BC212-1	2023	BC250A	2023	BC285	2009	BC341-06	2030	BC522E	2016	BCW64A	2023
BC183K	2016	BC212A	2023	BC250A-1	2023	BC286	2030	BC341-6	2030	BC523	2016	BCW65EA	2009
BC183KA	2016	BC212B	2023	BC250B	2023	BC288	2023	BC341-10	2030	BC523B	2016	BCW65EB	2009
BC183KB	2009	BC212K	2023	BC250B-1	2023	BC289	2009	BC350	2023	BC523C	2016	BCW69	2023
BC183KC	2009	BC212K-1	2023	BC250C	2023	BC289A	2009	BC350A	2023	BC526A	2023	BCW69R	2023
BC183L	2016	BC212KA	2023	BC250C-1	2023	BC289B	2009	BC350B	2023	BC526B	2023	BCW71	2010
BC183LA	2059	BC212KA-1	2023	BC251	2023	BC290	2009	BC350L	2023	BC526C	2023	BCW71R	2010
BC184	2009	BC212KB	2023	BC251A	2023	BC290B	2009	BC351	2023	BC532	2061	BCW72	2010
BC184B	2009	BC212KB-1	2023	BC251A-1	2023	BC290C	2009	BC351A	2023	BC533	2061	BCW72R	2010
BC184K	2009	BC212L	2023	BC251B	2023	BC291	2023	BC351B	2023	BC535	2030	BCW79-10	2023
BC184KB	2009	BC212L-1	2023	BC251B-1	2023	BC291-1	2023	BC351L	2023	BC537	2030	BCW79-16	2023
BC184KC	2009	BC212LA	2023	BC251C	2023	BC291A	2023	BC352	2023	BC53B	2030	BCW80-10	2023
BC184L	2016	BC212LA-1	2023	BC251C-1	2023	BC291A-1	2023	BC352A	2023	BC546	2016	BCW80-16	2023
BC185	2009	BC212LB	2023	BC252	2023	BC291D	2023	BC352B	2023	BC546A	2016	BCW83	2009
BC186	2023	BC212LB-1	2023	BC252-1	2023	BC291D-1	2023	BC352L	2023	BC546B	2016	BCW86	2023
BC187	2023	BC212V1	2023	BC252A	2023	BC292	2023	BC377	2009	BC547	2009	BCW87	2016
BC187-1	2023	BC212VI	2023	BC252A-1	2023	BC292A	2023	BC370	2009	BC547A	2009	BCW88	2023
BC188	2010	BC213	2023	BC252B	2023	BC292A-1	2023	BC381	2023	BC547B	2009	BCW92KA	2023
BC189	2010	BC213-1	2023	BC252B-1	2023	BC292D	2023	BC382	2023	BC547C	2009	BCW92KB	2023
BC190B	2009	BC213A	2023	BC252C	2023	BC292D-1	2023	BC382B	2009	BC547VI	2009	BCW93A	2023
BC192	2023	BC213B	2023	BC252C-1	2023	BC295	2010	BC382C	2009	BC548	2009	BCW93B	2023
BC192-1	2023	BC213K	2023	BC253	2023	BC297	2023	BC383	2009	BC548A	2016	BCW93KA	2023
BC194	2010	BC213K-1	2023	BC253-1	2023	BC297-7	2023	BC383B	2009	BC548B	2009	BCW93KB	2023
BC194B	2010	BC213KA	2023	BC253A	2023	BC298	2023	BC383C	2009	BC548BC	2009	BCW94	2009
BC195	2010	BC213KA-1	2023	BC253A-1	2023	BC301	2030	BC384	2009	BC548C	2016	BCW94A	2009
BC195CD	2010	BC213KB	2023	BC253B	2023	BC301-4	2030	BC384B	2009	BC548VI	2009	BCW94B	2009
BC196	2023	BC213KB-1	2023	BC253B-1	2023	BC301-5	2030	BC384C	2016	BC549	2009	BCW94C	2009
BC196-1	2023	BC213KC	2023	BC253C	2023	BC302-4	2030	BC385A	2016	BC549B	2016	BCW94KA	2009
BC196A	2023	BC213KC-1	2023	BC253C-1	2023	BC302-5	2030	BC385B	2016	BC549C	2016	BCW94KB	2009
BC196A-1	2023	BC213L	2023	BC254	2030	BC302-6	2030	BC386A	2016	BC556	2023	BCW94KC	2009
BC196B	2023	BC213L-1	2023	BC255	2030	BC303-6	2061	BC386B	2016	BC556A	2023	BCW95	2030
BC196B-1	2023	BC213LA	2023	BC256	2023	BC-307	1104	BC395	2061	BC556VI	2023	BCW95A	2009
BC196V1	2023	BC213LA-1	2023	BC256-1	2023	BC307	2023	BC400	2023	BC557	2023	BCW95B	2009
BC196V1-1	2023	BC213LB	2023	BC256A	2023	BC307(ALGG)	2023	BC404	2023	BC557A	2023	BCW95KA	2009
BC196VI	2061	BC213LB-1	2023	BC256A-1	2023	BC307(PHIN)	2023	BC404VI	2023	BC557B	2023	BCW95KB	2009
BC197	2009	BC213LC	2023	BC256B	2023	BC307-5	2023	BC405	2023	BC557VI	2023	BCW96	2023
BC197A	2009	BC213LC-1	2023	BC256B-1	2023	BC307-18	2023	BC405A	2023	BC558	2023	BCW96A	2023
BC197B	2009	BC214	2023	BC256C-1	2023	BC307A	2023	BC405B	2023	BC558A	2023	BCW96B	2023
BC198	2009	BC214-1	2023	BC257	2023	BC307B	2023	BC406B	2023	BC558B	2023	BCW96KA	2023
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BC198B	2016	BC214B	2023	BC257VI	2023	BC307V1	2023	BC407A	2009	BC559	2023	BCW97	2023
BC198C	2009	BC214K	2023	BC258	2023	BC307VI	2023	BC407B	2009	BC559A	2023	BCW97A	2023
BC199	2009	BC214K-1	2023	BC258-1	2023	BC307VI5	2023	BC408	2009	BC559B	2023	BCW97B	2023
BC199B	2016	BC214KA	2023	BC258C	2023	BC307VI8	2023	BC408A	2016	BC560A	2023	BCW97KA	2023
BC199C	2009	BC214KA-1	2023	BC258VI	2023	BC308	2023	BC408B	2016	BC562	2009	BCW97KB	2023
BC200	2023	BC214KB	2023	BC259	2023	BC308(ALGG)	2023	BC408C	2016	BC582A	2009	BCW98A	2016
BC200-1	2023	BC214KB-1	2023	BC259-1	2023	BC308-5	2023	BC409	2009	BC502B	2009	BCW98B	2016
BC200G	2023	BC214KC	2023	BC260	2023	BC308-18	2023	BC409B	2009	BC583	2009	BCW98C	2016
BC200R	2023	BC214KC-1	2023	BC260-1	2023	BC308A	2023	BC409C	2009	BC583A	2009	BCW98D	2016
BC200Y	2023	BC214L	2023	BC260A	2023	BC308B	2023	BC413	2009	BC583B	2009	BCX17	2023
BC201	2023	BC214L-1	2023	BC260A-1	2023	BC308C	2023	BC413B	2009	BC682	2030	BCX17R	2023
BC201-1	2023	BC214LA	2023	BC260B	2023	BC308V1	2023	BC413C	2009	BC737	2016	BCX19	2009
BC202	2023	BC214LA-1	2023	BC260B-1	2023	BC308VI	2061	BC414	2009	BC738	2016	BCX19R	2009
BC202-1	2023	BC214LB	2023	BC260C	2023	BC308VI5	2023	BC414B	2009	BC-1072	2009	BCX20	2009
BC203	2023	BC214LB-1	2023	BC260C-1	2023	BC308VI8	2023	BC414C	2009	BC-1082	2009	BCX20R	2009
BC203-1	2023	BC214LC	2023	BC-261	2023	BC309	2023	BC415-6	2023	BC-1086	2009	BCX58VII	2009
BC204	2023	BC214LC-1	2023	BC261	2023	BC309(ALGG)	2023	BC415A	2023	BC-1096	2009	BCX58VIII	2009
BC204-1	2023	BC215A	2061	BC261A	2023	BC309(SIEG)	2023	BC415B	2023	BC1096	2009	BCX70AG	2009
BC204A	2023	BC215B	2061	BC261A-1	2023	BC309-5	2023	BC416-6	2023	BC1478	2009	BCX70AH	2009
BC204A-1	2023	BC216	2030	BC261B	2023	BC309-1B	2023	BC416A	2023	BC-1690	2009	BCX70AJ	2009
BC204B	2023	BC216A	2030	BC261B-1	2023	BC309A	2023	BC416B	2023	BC6500	2010	BCX71BJ	2023
BC204B-1	2023	BC216B	2030	BC261C	2023	BC309B	2023	BC417	2023	BCM1002-1	2007	BCX71BK	2023
BC204V	2023	BC220	2009	BC261C-1	2023	BC309C	2023	BC418	2023	BCM1002-2	2010	BCY10	2023
BC204V-1	2023	BC221	2023	BC262	2023	BC310	2030	BC418A	2023	BCM1002-4	2007	BCY10A	2023
BC204VI	2023	BC221-1	2023	BC262-1	2023	BC312	2030	BC419	2023	BCM1002-5	2007	BCY11	2023
BC204VI-1	2023	BC222	2009	BC262A	2023	BC315	2023	BC419A	2023	BCW31	2010	BCY11A	2023
BC205	2023	BC223A	2009	BC262A-1	2023	BC317	2009	BC429	2030	BCW31R	2010	BCY12	2023
BC205-1	2023	BC223B	2009	BC262B	2023	BC317A	2009	BC431	2030	BCW32	2010	BCY12A	2023
BC205A	2023	BC224	2023	BC262B-1	2023	BC317B	2009	BC431B	2009	BCW32R	2010	BCY13	2009
BC205A-1	2023	BC225	2023	BC262C	2023	BC318	2009	BC432	2023	BCW34	2009	BCY15	2009
BC205B	2023	BC225-1	2023	BC262C-1	2023	BC318A	2009	BC442	2010	BCW35	2023	BCY16	2009
BC205B-1	2023	BC231A	2023	BC263	2023	BC318B	2009	BC446	2023	BCW36	2009	BCY35	2023
BC205C	2023	BC231B	2023	BC263A	2023	BC318C	2009	BC446-5	2023	BCW37	2023	BCY35A	2023
BC205V	2023	BC232A	2059	BC263A-1	2023	BC319	2009	BC446-18	2023	BCW37A	2023	BCY36	2009
BC205V-1	2023	BC232B	2059	BC263B	2023	BC319B	2009	BC452	2009	BCW44	2030	BCY37	2023
BC205VI	2023	BC233A	2009	BC263B-1	2023	BC319C	2023	BC455	2009	BCW45	2023	BCY37A	2023
BC205VI-1	2023	BC236	2061	BC263C	2023	BC320	2023	BC456	2058	BCW46	2030	BCY38	2023
BC205VI1	2023	BC237	2009	BC263C-1	2023	BC320A	2023	BC477VI	2023	BCW47	2030	BCY38A	2023
BC206	2023	BC237(PHIN)	2016	BC264A	2062	BC320C	2023	BC478	2023	BCW48	2030	BCY39	2023
BC206-1	2023	BC237-18	2009	BC266	2023	BC321	2023	BC478A	2023	BCW48A	2009	BCY39A	2023
BC206A	2023	BC237A	2009	BC266-1	2023	BC321A	2023	BC478B	2023				

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-		
BCY58	2023	BD107B	2020	BDX93	2041	BF225	2058	BF367	2058	BFS40A	2023	BFW87	2023
BCY58B	2009	BD109	2020	BDX95	2041	BF225J	2009	BF368	2009	BFS41	2023	BFW89	2023
BCY58C	2009	BD109-6	2020	BDY-10	2041	BF-226	2009	BF369	2009	BFS42	2009	BFW90	2023
BCY58D	2009	BD111	2041	BDY11	2041	BF226	2016	BF379	2023	BFS42A	2009	BFX17	2030
BCY58E	2009	BD113	2058	BDY11	2041	BF227	2016	BF384	2010	BFS42B	2009	BFX18	2010
BCY58VIII	2009	BD124	2020	BDY12	2020	BF228	2016	BF385	2010	BFS42C	2009	BFX19	2010
BCY59	2009	BD-127	1104	BDY13	2020	BF229	2010	BF387	2030	BFS43	2009	BFX20	2010
BCY59A	2009	BD130	2041	BDY17	2020	BF230	2010	BF411	2061	BFS43A	2009	BFX21	2010
BCY59B	2009	BD-131	2020	BDY20	2041	BF232	2016	BF412	2061	BFS43B	2009	BFX29	2023
BCY59C	2009	BD141	2041	BDY23	2041	BF233-2	2058	BF414	2023	BFS43C	2009	BFX30	2023
BCY59D	2009	BD142	2041	BDY23A	2041	BF233-3	2058	BF422	2061	BFS55A	2016	BFX31	2016
BCY59VII	2009	BD162	2020	BDY23B	2041	BF233-4	2010	BF440	2023	BFS50	2010	BFX32	2010
BCY59VIII	2009	BD163	2020	BDY34	2020	BF233-5	2016	BF441	2023	BFS62	2016	BFX35	2023
BCY65	2030	BD181	2041	BDY38	2041	BF233-6	2058	BF450	2023	BFS69	2023	BFX37	2023
BCY66	2030	BD182	2041	BDY39	2041	BF234	2058	BF451	2023	BFS96	2023	BFX43	2009
BCY69	2009	BD183ELK	2041	BDY53	2041	BF235	2010	BF469	2061	BFS97	2023	BFX44	2009
BCY70	2023	BD201	2020	BDY54	2041	BF236	2010	BF494	2058	BF220	2023	BFX45	2010
BCY70A	2023	BD203	2020	BDY56	2041	BF237	2009	BF495	2058	BF221	2023	BFX47	2016
BCY71	2023	BD220	2020	BDY63	2041	BF238	2009	BF497	2016	BF222	2023	BFX50	2030
BCY71A	2023	BD221	2020	BDY69	2043	BF240	2058	BF506	2023	BF229	2030	BFX51	2030
BCY72	2023	BD222	2020	BDY73	2041	BF240B	2058	BF516	2016	BF230	2030	BFX52	2030
BCY72A	2023	BD223	2020	BDY82	2027	BF241	2058	BF540	2023	BF231	2030	BFX59F	2009
BCY77VII	2023	BD224	2027	BDY83	2027	BF241C	2058	BF541	2023	BF239	2030	BFX60	2016
BCY77VIII	2023	BD225	2027	BDY90(AUDIO)	2041	BF241D	2058	BF542	2023	BF240	2030	BFX61	2030
BCY78	2023	BD231A	2020	BDY91(AUDIO)	2041	BF243	2023	BF594	2058	BF241	2030	BFX62	2016
BCY79	2023	BD233G	2020	BDY92(AUDIO)	2041	BF248	2009	BF595	2058	BF242	2030	BFX65	2023
BCY79VII	2023	BD235G	2020	BDY93.01	2055	BF249	2023	BF596	2009	BF243	2030	BFX66	2009
BCY84A	2009	BD237G	2020	BE6	2007	BF250	2009	BF597	2016	BF244	2023	BFX68	2030
BCY85	2030	BD239	2020	BE6A	2007	BF251	2016	BF-832	2023	BF245	2023	BFX68A	2030
BCY86	2030	BD239A	2020	BE-66	2009	BF252	2016	BF811	2009	BF246	2023	BFX69	2030
BCY87	2010	BD240	2027	BE71	2030	BF253	2010	BF816	2009	BF247	2023	BFX69A	2030
BCY88	2010	BD240A	2027	BE107	1104	BF254	2058	BF818	2030	BF248	2023	BFX73	2016
BCY89	2010	BD241	2027	BE117	1104	BF254B	2016	BF819	2030	BF249	2023	BFX74	2030
BCY90	2023	BD242	2027	BE127	1104	BF-255	2009	BF820	2030	BF250	2023	BFX77	2016
BCY90A	2023	BD242A	2020	BE173	2010	BF255	2058	BF825	2030	BF251	2023	BFX84	2030
BCY90B	2023	BD242B	2020	BF1	2007	BF255C	2016	BF825	2016	BF252	2023	BFX85	2030
BCY90B-1	2023	BD243	2020	B-F1A	2007	BF255D	2016	BF826	2009	BF253	2023	BFX86	2030
BCY91	2023	BD243B	2020	BF1A	2007	BF256	2016	BF828	2010	BF254	2016	BFX89	2016
BCY91A	2023	BD244	2027	BF2	2007	BF261	2016	BF836	2030	BF255	2016	BFX92	2009
BCY91B	2023	BD244A	2027	BF65	2023	BF262	2010	BF840T05	2030	BF256	2023	BFX92A	2009
BCY91B-1	2023	BD244B	2027	BF71	2009	BF263	2010	BF841T05	2030	BF257	2023	BFX93	2009
BCY92	2023	BD271	2020	BF-115	2010	BF264	2010	BF851	2030	BF258	2023	BFX94	2009
BCY92A	2023	BD272	2027	BF115	2009	BF270	2010	BF852	2030	BF259	2023	BFX95	2009
BCY92B	2023	BD273	2020	BF121	2010	BF271	2016	BF877	2030	BF260	2016	BFX95A	2009
BCY92B-1	2023	BD275	2020	BF123	2010	BF273	2016	BF878	2030	BF261	2016	BFX96	2030
BCY93	2023	BD278	2020	BF125	2010	BF273C	2016	BF878	2030	BF262	2016	BFX96A	2009
BCY93A	2023	BD291	2020	BF127	2010	BF273D	2016	BF878	2030	BF263	2016	BFX97	2030
BCY93B	2023	BD293	2020	BF155	2016	BF274	2016	BF878	2030	BF264	2009	BFX97A	2030
BCY93B-1	2023	BD311	2041	BF161	2016	BF274B	2016	BF878	2030	BF265	2009	BFY	2009
BCY94	2023	BD312	2043	BF162	2016	BF274C	2016	BF878	2030	BF266	2009	BFY10	2009
BCY94A	2023	BD313	2041	BF163	2016	BF277	2016	BF878	2030	BF267	2009	BFY11	2009
BCY94B	2023	BD433	2020	BF164	2016	BF279	2016	BF878	2030	BF268	2009	BFY12	2009
BCY94B-1	2023	BD434	2027	BF165	2016	BF288	2016	BF878	2030	BF269	2009	BFY13	2030
BCY95	2023	BD435	2020	BF166	2016	BF290	2016	BF878	2030	BF270	2009	BFY14	2030
BCY95A	2023	BD436	2027	BF167	2016	BF291	2009	BF878	2030	BF271	2009	BFY15	2030
BCY95B	2023	BD437	2020	BF168	2016	BF291A	2009	BF878	2030	BF272	2009	BFY17	2030
BCY95B-1	2023	BD438	2027	BF169	2016	BF291B	2009	BF878	2030	BF273	2009	BFY18	2009
BCY98	2023	BD439	2020	BF173	2016	BF293	2009	BF878	2030	BF274	2009	BFY19	2009
BCY98A	2023	BD440	2027	BF173A	2016	BF293A	2009	BF878	2030	BF275	2009	BFY-22	2009
BCY98B	2023	BD441	2020	BF175	2016	BF293D	2009	BF878	2030	BF276	2016	BFY22	2009
BCY98B-1	2023	BD533	2020	BF176	2016	BF297	2010	BF878	2030	BF277	2016	BFY-23	2009
BCY443	2030	BD534	2027	BF177	2030	BF298	2061	BF878	2030	BF278	2016	BFY23	2009
BCY501	2009	BD585	2020	BF-180	2009	BF302	2016	BF878	2030	BF279	2016	BFY-23A	2009
BCY511	2009	BD536	2027	BF180	2016	BF304	2016	BF878	2030	BF280	2016	BFY23A	2009
BCY771X	2023	BD537	2020	BF181	2016	BF306	2016	BF878	2030	BF281	2023	BFY-24	2009
BCZ10	2023	BD575	2020	BF182	2016	BF308	2058	BF878	2030	BF282	2023	BFY24	2009
BCZ10A	2023	BD577	2020	BF183	2016	BF310	2058	BF878	2030	BF283	2023	BFY25	2009
BCZ10B	2023	BD579	2020	BF183A	2009	BF311	2058	BF878	2030	BF284	2023	BFY26	2009
BCZ10C	2023	BD585	2020	BF184	2016	BF314	2058	BF878	2030	BF285	2010	BFY27	2030
BCZ11	2023	BD587	2020	BF185	2016	BF321A	2009	BF878	2030	BF286	2010	BFY28	2009
BCZ11A	2023	BD589	2020	BF187	2010	BF321B	2009	BF878	2030	BF287	2016	BFY-29	2009
BCZ12	2023	BD591	2020	BF188	2010	BF321C	2009	BF878	2030	BF288	2016	BFY29	2009
BCZ12A	2023	BD596	2027	BF189	2009	BF321D	2009	BF878	2030	BF289	2016	BFY29	2009
BCZ12B	2023	BD633	2020	BF194	2058	BF321E	2009	BF878	2030	BF290	2016	BFY-30	2009
BCZ12C	2023	BD635	2020	BF194A	2010	BF321F	2009	BF878	2030	BF291	2016	BFY30	2009
BCZ13	2023	BD643	2068	BF194B	2010	BF322	2030	BF878	2030	BF292	2009	BFY33	2009
BCZ13A	2023	BD645	2068	BF195	2058	BF329	2010	BF878	2030	BF293	2010	BFY34	2030
BCZ13B	2023	BD733	2020	BF195C	2010	BF332	2010	BF878	2030	BF294	2010	BFY-37	2010
BCZ13C	2023	BD735	2020	BF195D	2010	BF333	2010	BF878	2030	BF295	2023	BFY37	2009
BCZ13D	2023	BD737	2020	BF196	2058	BF333C	2010	BF878	2030	BF296	2010	BFY-39	2009
BCZ13E	2023	BD0A	1171	BF197	2010	BF333D	2010	BF878	2030	BF297	2023	BFY39	2009
BCZ13F	2023	BDX10	2041	BF198	2058	BF334	2010	BF878	2030	BF298	2023	BFY39.1	2009
BCZ13G	2023	BDX11	2041	BF199	2058	BF335	2010	BF878	2030	BF299	2023	BFY39.2	2009
BCZ13H	2023	BDX18	2043	BF200	2016	BF340	2023	BF878	2030	BF300	2023	BFY39.3	2009
BCZ14	2023	BDX18N	2043	BF-200(PENNCREST)	2016	BF340A	2023	BF878	2030	BF301	2023	BFY39.11	2061
BCZ14A	2023	BDX24	2041			BF340B	2023	BF878	2030	BF302	2016	BFY39-1	2016
BCZ14B	2023	BDX25	2020	BF200(ZENITH)	2010	BF340C	2023	BF878	2030	BF303	2016	BFY39-2	2016
BCZ14C	2023	BDX27	2027	BF206	2016	BF340D	2023	BF878	2030	BF304	2016	BFY39-3	2016
BCZ14D	2023	BDX27-6	2027	BF207	2016	BF341A	2023	BF878	2030	BF305	2009	BFY39I	2009
BCZ14E	2023	BDX27-10	2027	BF208	2016	BF341B	2023	BF878	2030	BF306	2016	BFY40	2030
BCZ14F	2023	BDX28	2027	BF209	2016	BF341C	2023	BF878	2030	BF307	2016	BFY44	2030
BD0A	1104	BDX28-6	2027	BF212	2016	BF341D	2023	BF878					

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BFY67	2030	BLY4B	2041	BSV89	2009	BSX52	2009	BSY89	2009	BY156	1114	BZX46C12	563
BFY67A	2030	BLY61	2030	BSV90	2009	BSX52A	2009	BSY90	2030	BY164	1171	BZX-46C15	564
BFY67C	2030	BLY63	2020	BSV91	2009	BSX53	2009	BSY91	2009	BY172	1114	BZX46C15	564
BFY60	2030	BLY69	2020	BSV92	2058	BSX54	2009	BSY92	2030	BY173	1114	BZX55C6V2	561
BFY68A	2030	BLY88	2020	BSV96	2023	BSX59	2030	BSY93	2009	BY179	1173	BZX55C9V1	562
BFY69	2010	BLY89	2020	BSV97	2023	BSX60	2030	BSY-95	2010	BY201	1144	BZX55C12	563
BFY69A	2010	BLY92	2020	BSV98	2023	BSX61	2030	BSY95	2009	BY206	1144	BZX55C15	564
BFY69B	2016	BMT1991	2023	BSW10	2030	BSX62	2030	BSY95A	2009	BY401	1104	BZX71C5V1	565
BFY70	2030	BMT2303	2023	BSW11	2009	BSX62B	2030	BSY165	2009	BY402	1104	BZX71C9V1	562
BFY72	2009	BMT2411	2023	BSW12	2009	BSX62C	2030	BSY168	2009	BY403	1104	BZX71C12	563
BFY73	2009	BMT2412	2023	BSW13	2016	BSX62D	2030	BT67	2009	BY404	1104	BZX-71C15	564
BFY74	2009	BN-66	2009	BSW19	2009	BSX63B	2030	BT71	2009	BY405	1104	BZX71C15	564
BFY75	2009	BN7133	2041	BSW20	2023	BSX63C	2030	BT82	2023	BY406	1104	BZX79C5V1	565
BFY76	2009	BN7214	2041	BSW21	2023	BSX66	2009	BT-94	2009	BY407	1104	BZX79C6V2	561
BFY77	2009	BN7517	2009	BSW-21A	2023	BSX67	2023	BT100A-300R	1020	BY1001	1114	BZX79C9V1	562
BFY78	2010	BN7518	2009	BSW21A	2023	BSX68	2009	BT832	2023	BY1002	1114	BZX79C12	563
BFY79	2016	BN7551	563	BSW-22	2023	BSX69	2009	BT929	2016	BY1101	1114	BZX-79C15	564
BFY80	2030	BO-71	2010	BSW22	2023	BSX70	2030	B-T-1000-139	2010	BY1102	1114	BZX79C15	564
BFY85	2009	BO8875/2	2023	BSW-22A	2023	BSX71	2030	B-T1000-139	2010	BY1200	1114	BZX83C5V1	565
BFY86	2009	BO316415	1759	BSW22A	2023	BSX72	2030	BTB1000	1114	BY1201	1114	BZX83C6V2	561
BFY87	2016	BO319200	705	BSW-24	2023	BSX75	2009	BTM-50	1141	BY1202	1114	BZX83C12	563
BFY87A	2016	BO470016	2401	BSW24	2023	BSX76	2009	BTM50	1104	BYX10	1114	BZX83C15	564
BFY88	2016	BO470116	2411	BSW26	2030	BSX77	2009	BTM1000	1114	BYX12/400	1114	BZX5565V1	565
BFY90(SIEG)	2009	BP67	2009	BSW27	2030	BSX78	2009	BTX-068	2016	BYX13/600	1114	BZY18	563
BFY90B	2010	BP5263	2007	BSW28	2030	BSX79	2009	BTX068	2009	BYX22/200	1104	BZY-19	564
BFY94	2023	BPS-5-50	1103	BSW29	2030	BSX79A	2009	BTX-070	2009	BYX22/400	1104	BZY19	564
BFY99	2030	BQ67	2009	BSW32	2059	BSX79B	2009	BTX070	2007	BYX22/600	1104	BZY57	565
BFY167	2016	BQ-94	2009	BSW33	2009	BSX80	2009	BTX-084	2023	BYX22/800	1114	BZY59	561
BFY371	2009	BR-1	1171	BSW34	2009	BSX81	2009	BTX-094	2009	BYX26-60	1114	BZY63	562
BFY391	2009	BR42	1104	BSW35	2030	BSX81A	2009	BTX-095	2009	BYX30/150	1143	BZY65	565
BFY501	2061	BR44	1104	BSW39	2009	BSX81B	2009	BTX-096	2009	BYX36/150	1104	BZY69	563
BG-66	2009	BR46	1104	BSW39-6	2030	BSX87	2009	BTX-2367B	2009	BYX36/300	1104	BZY83/C5V1	565
BG71	2009	BR47	1104	BSW39-10	2030	BSX88	2009	BTX2367B	2009	BYX36/600	1104	BZY83/C15	564
BG-94	2009	BR48	1104	BSW39-16	2030	BSX89	2009	BU67	2009	BYX36-150	1114	BZY83/C16	564
BG55345	019	BR52	1104	BSW41	2009	BSX90	2009	BU71	2009	BYX36-300	1104	BZY83/CV51	565
BH4R1	1104	BR-66	2009	BSW42	2009	BSX91	2009	BU105	2055	BYX36-600	1104	BZY83/D15	564
BH4R6	1114	BR67	2009	BSW42A	2009	BSX92	2010	BU105-02	2055	BYX38	1114	BZY83C5V1	565
BH71	2009	BR-82	2023	BSW43	2009	BSX93	2010	BU108	2055	BYX45-600R	1114	BZY83C6V2	561
BH-X00038CEZZ	1104	BR-101B	2020	BSW43A	2009	BSX94A	2009	BU115	2055	BYX45-800R	1114	BZY83C12	563
BI71	2009	BR101B	2020	BSW-44	2023	BSX95	2030	BU204	2055	BYX45-1000R	1114	BZY-83C15	564
BI7201	2009	BR-832	2023	BSW44	2023	BSX96	2030	BU205	2055	BYX58-50	1102	BZY83C15	564
BIW	2009	BR51400-1	1104	BSW-44A	2023	BSX97	2009	BU206	2055	BYX58-100	1102	BZY83C16	564
BJ1A	2023	BR51401-2	1104	BSW44A	2023	BSY10	2009	BU207	2055	BYX58-200	1102	BZY83D12	563
BJ1B	2023	BR-116	2041	BSW-45	2023	BSY11	2009	BU209	2055	BYX60-50	1104	BZY-83D15	564
BJ1C	2023	BRCS296	2020	BSW45	2023	BSY17	2009	BU225	2055	BYX60-100	1104	BZY83D15	564
BJ2	2023	BR-5496	2020	BSW-45A	2023	BSY18	2009	BU500	2055	BYX60-200	1104	BZY85/C5V1	565
BJ2A	2023	BRN-SPEC-24-12	1103	BSW45A	2023	BSY19	2009	BUC-97704-2	2009	BYX60-300	1104	BZY85/C15	564
BJ2B	2023	BS08H	1001	BSW49	2030	BSY20	2009	BUC97704-2	2009	BYX60-400	1104	BZY85/D15	564
BJ2C	2023	BS1	1104	BSW51	2009	BSY21	2009	BUY10	2041	BYX60-500	1104	BZY85C5V1	565
BJ2D	2023	BS2	1104	BSW52	2009	BSY22	2010	BUY11	2041	BYX60-600	1104	BZY85C6V2	561
BJ3	2023	BS-66	2009	BSW53	2009	BSY23	2010	BUY24	2020	BYX60-700	1114	BZY85C12	563
BJ3A	2023	BS67	2009	BSW58	2009	BSY24	2009	BUY44	2041	BYX55009	1114	BZY85C15	564
BJ3B	2023	BS-94	2009	BSW65	2030	BSY25	2009	BV25	1104	BYY-31	1104	BZY85D12	564
BJ4	2023	BS475	2009	BSW66	2030	BSY26	2009	BV67	2009	BYY31	1104	BZY85D15	564
BJ4A	2023	BS901IG	2009	BSW-72	2023	BSY27	2009	BV71	2009	BYY-32	1104	BZY88/6V2	561
BJ4B	2023	BSA01	1102	BSW72	2023	BSY28	2009	BW67	2009	BYY32	1104	BZY88/C5V1	565
BJ4C	2023	BSA02	1102	BSW-73	2023	BSY29	2009	BW71	2009	BYY33	1104	BZY88/C6V2	561
BJ4D	2023	BSA11	1102	BSW73	2023	BSY34	2009	BX090	562	BYY34	1104	BZY88/C9V1	562
BJ5	2023	BS-81	1171	BSW-74	2023	BSY38	2009	BX67	2009	BYY-35	1104	BZY88/C9V5	562
BJ5A	2023	BS-84	1173	BSW74	2023	BSY39	2009	BX71	2009	BYY35	1104	BZY88/C9V7	565
BJ5B	2023	BS510	2009	BSW-75	2023	BSY-40	2023	BX909	562	BYY36	1104	BZY88C5V1	565
BJ6	2023	BS521	2009	BSW75	2023	BSY40	2023	BXY10	1114	BYY37	1114	BZY88C12	563
BJ6A	2023	BS522	2009	BSW81	2023	BSY-41	2023	BXY63	562	BYY60	1114	BZY88C15	564
BJ6B	2023	BS526	2009	BSW82	2009	BSY41	2023	BY12-00	1114	BYY61	1114	BZY92/C5V1	565
BJ6C	2023	BS528	2030	BSW83	2009	BSY44	2030	BY67	2009	BYY89	1104	BZY92/C15	564
BJ6D	2023	BS529	2030	BSW84	2009	BSY45	2030	BY71	2009	BYY91	1114	BZY92C5V1	565
BJ7	2023	BS538	2061	BSW85	2009	BSY46	2030	BY100	1114	BZ-050	565	BZY92C6V2	561
BJ7A	2023	BS540	2030	BSW88	2009	BSY48	2009	BY100S	1114	BZ050	565	BZY92C9V1	562
BJ7B	2023	BS541	2030	BSW88A	2009	BSY49	2009	BY101	1104	BZ-061	561	BZY92C12	563
BJ7C	2023	BSV21	2023	BSW88B	2009	BSY51	2030	BY102	1104	BZ-063	561	BZY92C15	564
BJ7D	2023	BSV21A	2023	BSW89	2009	BSY52	2030	BY104	1114	BZ090	562	BZY94/C12	563
BJ8	2023	BSV35	2010	BSW89A	2009	BSY53	2030	BY105	1114	BZ-090(DIODE)	1123	BZY94/C15	564
BJ8A	2023	BSV35A	2009	BSW89B	2009	BSY54	2030	BY106	1104	BZ090.1Z9	562	BZY94C12	563
BJ8B	2023	BSV35B	2010	BSW92	2009	BSY55	2030	BY107	1104	BZ-092	562	BZY94C15	564
BJ8C	2023	BSV35C	2010	BSX12	2010	BSY56	2030	BY108	1114	BZ-094	562	C00-68602300	2009
BJ8D	2023	BSV35D	2010	BSX12A	2030	BSY58	2009	BY109	1114	BZ094	562	C00-686-0241	2023
BJ9	2023	BSV40	2009	BSX140	2009	BSY59	2009	BY111	1104	BZ-0900	562	C00686-0258-0	2023
BJ9A	2023	BSV41	2009	BSX21	2061	BSY61	2009	BY112	1104	BZ-0901	562	C0068602720	2023
BJ9B	2023	BSV42	2023	BSX23	2030	BSY-62	2010	BY113	1104	BZ/88/C4V7	565	C08P1R	1101
BJ9C	2023	BSV43A	2023	BSX24	2009	BSY62	2009	BY114	1104	BZ1-9	562	C049	1144
BJ9D	2023	BSV44A	2023	BSX25	2009	BSY62A	2009	BY115	1104	BZ1-90	562	C0410	1114
BJ10	2023	BSV45A	2023	BSX26	2010	BSY63	2009	BY116	1104	BZ5-1	565	C1B	1104
BJ11	2023	BSV46	2023	BSX27	2010	BSY68	2061	BY117	1104	BZ6.2	561	C1H	1104
BJ11A	2023	BSV47A	2023	BSX30	2009	BSY70	2009	BY118	1114	BZ9-1	562	C1.0E02	1114
BJ11B	2023	BSV48A	2023	BSX33	2030	BSY71	2030	BY119	1114	BZ12	563	C2AJ102	1104
BJ12	2023	BSV49A	2023	BSX35	2010	BSY-72	2010	BY121	1104	BZ67	2009	C6	2055
BJ12B	2023	BSV51	2030	BSX36	2023	BSY72	2030	BY122	1171	BZ71	2009	C6A	1067
BJ12C	2023	BSV52	2010	BSX38	2009	BSY-73	2010	BY124	1104	BZ-120	563	C6B	1067
BJ13	2023	BSV52R	2010	BSX38A	2009	BSY73	2009	BY125	1104	BZ120	563	C6B3	1067
BJ13A	2023	BSV53	2009	BSX38B	2009	BSY-74	2010	BY126	1104	BZ-145	564	C6F	1067
BJ13B	2023	BSV53P	2010	BSX44	2009	BS							

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C19	2030	C106Q3	1067	C191	2009	C318(JAPAN)	2009	C380A-R(TV)	2009	C4588K	2059	C511B	1067
C20	2030	C106Q4	1067	C192	2009	C318A	2009	C380ATV	2009	C4588L	2009	C511C	1028
C21	2041	C106Y	1067	C193	2009	C318A(JAPAN)	2009	C280AY	2009	C4588LG	2059	C511F	1067
C22	2030	C106Y1	1067	C194	2009	C321	2009	C380D	2009	C458C	2009	C511G	1067
C23	2030	C106Y2	1067	C195	2009	C321H	2009	C380E	2009	C458CLG	2009	C511H	1020
C23H12B	1104	C106Y3	1067	C196	2009	C321HA	2009	C380R 4454C	2050	C458CM	2009	C511U	1067
C24	2030	C106Y4	1067	C197	2009	C321HB	2009	C380Y	2009	C458D	2009	C516	2030
C26	2009	C107A	1067	C199	2009	C321HC	2009	C381	2010	C458G	2009	C520(TRANSISTOR)	2041
C27	2009	C107A1	1067	C200(TRANSISTOR)	2009	C323	2009	C381-0	2010	C458GLB	2009	C529	2009
C28	2009	C107A2	1067	C201(JAPAN)	2009	C324	2009	C381-O	2010	C458K	2009	C529A	2009
C29	2009	C107A3	1067	C202	2007	C324A	2009	C381 R	2010	C458KA	2009	C535	2010
C30	2030	C107B	1067	C202(JAPAN)	2009	C324H	2009	C381BN	2010	C458KB	2009	C535A	2010
C31	2009	C107B1	1067	C203	2009	C324HA	2009	C381R	2010	C458KC	2009	C535B	2010
C32	2009	C107B2	1067	C204	2009	C325E	2009	C383	2020	C458KD	2009	C535C	2010
C32A	2030	C107B3	1067	C205	2009	C333H	2009	C383G	2009	C458L	2009	C535G	2010
C33	2016	C107B4	1067	C206	2016	C333HA	2009	C383T	2009	C458LB	2009	C536	2016
C37	2009	C107C	1020	C208	2010	C333HB	2009	C383W	2009	C458LG	2009	C536A	2016
C37(TRANSISTOR)	2009	C107C1	1020	C210	2030	C333HC	2009	C383Y	2009	C458LG(B)	2009	C536AG	2016
C38	2009	C107C2	1020	C211	2030	C335	2009	C384	2010	C458LGA	2009	C536B	2016
C38(TRANSISTOR)	2009	C107C3	1020	C212	2030	C337B	2009	C384-O	2010	C458LGB	2009	C536C	2016
C39(TRANSISTOR)	2010	C107C4	1020	C216	2030	C348	2009	C384Y	2010	C458LGBM	2009	C536D	2059
C39-207	2009	C107D	1020	C217	2030	C350(TRANSISTOR)	2009	C385(TRANSISTOR)	2010	C458LGC	2009	C536DK	2016
C39A	2010	C107D1	1020	C218	2030	C350H	2009	C385A	2010	C458LGD	2009	C536E	2059
C40	2010	C107D2	1020	C218A	2030	C351	2010	C386	2010	C458LGO	2009	C536ED	2016
C45	2009	C107D3	1020	C220	2030	C351(FA)	2010	C386A-0(TV)	2010	C458LGS	2009	C536EH	2016
C46	2030	C107D4	1020	C221	2030	C352	2009	C387(TRANSISTOR)	2010	C458M	2009	C536EJ	2016
C47	2030	C107F	1067	C222	2030	C352(JAPAN)	2009	C387A(FA-3)	2010	C458P	2009	C536EN	2016
C48	2030	C107F1	1067	C223(TRANSISTOR)	2030	C352A	2009	C387G	2010	C458RGS	2009	C536ER	2016
C48C	2030	C107F2	1067	C226	2030	C352A(JAPAN)	2030	C387G(TRANSISTOR)	2010	C458TOK	2009	C536ET	2016
C49Y	2030	C107F3	1067	C227	2030	C353	2030	C388	2009	C458VC	2009	C536EZ	2016
C51	2030	C107F4	1067	C228	2030	C353A	2030	C388(TRANSISTOR)	2009	C459	2009	C536F	2016
C52(TRANSISTOR)	2009	C107Q	1067	C229	2030	C356	2009	C388A	2009	C459B	2009	C536F1	2016
C53	2009	C107Q1	1067	C230	2009	C360	2009	C388ATV	2009	C459D	2009	C536F2	2016
C54	2009	C107Q2	1067	C231	2009	C360D	2009	C389	2016	C460(A)	2009	C536F3	2016
C55	2009	C107Q3	1067	C232	2009	C361	2009	C389-0	2016	C460(B)	2009	C536FF	2016
C56	2010	C107Q4	1067	C233	2009	C362	2009	C389R	2016	C460A	2009	C536FS6	2016
C60(DIODE)	1123	C107Y	1067	C236	2030	C363	2009	C390(TRANSISTOR)	2016	C460B	2009	C536FZ	2016
C61	2030	C107Y1	1067	C237	2009	C366	2009	C394	2009	C460C	2009	C536G	2016
C62(TRANSISTOR)	2009	C107Y2	1067	C238	2009	C367	2009	C394(TRANSISTOR)	2016	C460D	2009	C536GF	2016
C63	2009	C107Y3	1067	C239	2009	C368	2016	C394-O	2009	C460G	2009	C536GK	2016
C63(JAPAN)	2010	C107Y4	1067	C240	2041	C368BL	2016	C394 O	2009	C460GB	2009	C536GT	2016
C64	2030	C108	2030	C241	2041	C368GR	2016	C394GR	2009	C460H	2009	C536GV	2016
C66-P11111-0001	2009	C109	2030	C242	2041	C368V	2016	C394R	2009	C460K	2009	C536GY	2016
C66-P11150-00801	2009	C109A	2030	C243	2041	C369	2016	C394W	2009	C460L	2009	C536H	2016
C67	2009	C111	2009	C247	2030	C369BL	2016	C394Y	2009	C461	2009	C536W	2016
C68	2009	C1118	2010	C248	2009	C369G	2016	C395	2009	C461A	2009	C537	2059
C73	2007	C111E	2009	C249	2030	C369G-8L	2016	C395A	2009	C461B	2009	C537(F)	2016
C74	2009	C112(JAPAN)	2030	C250	2009	C369G8L	2016	C395R	2009	C461C	2009	C537(G)	2016
C75	2007	C113	2030	C251	2016	C369G-GR	2016	C397(TRANSISTOR)	2010	C461E	2009	C537-01	2059
C76	2007	C114	2030	C251A	2016	C369GGR	2016	C398(TRANSISTOR)	2016	C461L	2009	C537A	2016
C79	2010	C115	2030	C252	2016	C369G-R	2016	C400	2009	C463	2016	C537B	2059
C80	2016	C116	2009	C253	2016	C369G-V	2016	C400-0	2009	C463H	2016	C537C	2009
C82S	2010	C117	2030	C254	2030	C369V	2016	C400-GR	2009	C468	2009	C537D	2009
C83-#29	1104	C118(JAPAN)	2030	C263	2010	C370	2009	C400-R	2009	C468(LGR)	2009	C537D2	2009
C83-880	1104	C119(JAPAN)	2030	C267	2009	C370F	2009	C400-Y	2009	C468A	2009	C537E	2059
C87	2009	C120	2009	C267A	2009	C370G	2009	C401	2009	C472Y	2009	C537EF	2059
C88	2030	C121	2030	C268	2030	C370H	2009	C401(JAPAN)	2009	C477	2016	C537EH	2059
C88A	2030	C122	2009	C268A	2030	C370J	2009	C402	2009	C478	2009	C537EK	2059
C95	2030	C122(TRANSISTOR)	2030	C269	2010	C370K	2009	C402(JAPAN)	2009	C478(D)	2009	C537EK	2059
C97	2030	C123(TRANSISTOR)	2030	C270	2055	C371	2010	C402A	2009	C478-4	2009	C537F	2059
C97A	2030	C124	2030	C271	2010	C371(0)	2009	C403	2009	C478D	2009	C537F1	2059
C98	2009	C125	2007	C272	2010	C371-0	2009	C403(C)	2009	C479	2030	C537F2	2009
C99	2009	C127	2009	C281	2009	C371-O	2009	C403A	2009	C482	2030	C537FC	2009
C99CD	2030	C130	2030	C281A	2009	C371-R	2009	C403B(SONY)	2009	C482	2030	C537FV	2016
C100	2009	C131	2009	C281B	2009	C371-R-1	2009	C403C	2009	C492	2010	C537G	2016
C100-OY	2009	C132	2009	C281C	2009	C371B	2009	C403C(SONY)	2009	C493	2030	C537G1	2009
C103	2009	C133	2009	C281C-EP	2009	C371G	2009	C404	2009	C493-8L	2041	C537GF	2009
C103(JAPAN)	2009	C134	2009	C281D	2009	C371R	2009	C405	2009	C493-R	2041	C537GI	2016
C103A(SCR)	1067	C134B	2009	C201EP	2009	C372	2009	C406	2009	C493-Y	2041	C537H	2016
C103A(TRANSISTOR)	2009	C135	2009	C281H	2009	C372(0)	2009	C420	2030	C494	2041	C537HT	2016
C103B	1067	C136	2009	C281HA	2009	C372-0	2009	C420B	2009	C494 8L	2041	C537W	2016
C103Q	1067	C137(TRANSISTOR)	2009	C281HB	2009	C372-1	2009	C423C	2009	C494-R	2041	C538	2009
C103Y	1067	C138(TRANSISTOR)	2009	C281HC	2009	C372-2	2009	C423D	2009	C494-Y	2041	C538A	2009
C103Y1	1067	C138A	2009	C282	2009	C372-O	2009	C423E	2009	C494BL	2041	C538AQ	2009
C103Y2	1067	C139(TRANSISTOR)	2009	C282(TRANSISTOR)	2010	C372-R	2009	C423F	2009	C497	2030	C538P	2009
C104	2009	C140(TRANSISTOR)	2030	C282H	2009	C372-Y	2009	C424	2009	C497-O	2030	C538Q	2009
C104A	2009	C147	2030	C282HA	2009	C372-Z	2009	C424(JAPAN)	2009	C497-R	2030	C538R	2009
C105	2009	C148(TRANSISTOR)	2010	C282HB	2009	C372GR	2009	C424S	2009	C497-Y	2030	C538S	2009
C106A	1067	C150T	2030	C282HC	2009	C372H	2009	C425	2030	C498	2030	C538T	2009
C106A1	1067	C151	2009	C283	2009	C372Y	2009	C425B	2009	C498-O	2030	C539	2009
C106A2	1067	C152(TRANSISTOR)	2009	C283(TRANSISTOR)	2009	C373	2009	C425C	2009	C498-R	2030	C539K	2009
C106A3	1067	C154	2020	C284	2009	C373BL	2009	C425D	2009	C498-Y	2030	C539L	2009
C106A4	1067	C154B	2020	C284H	2009	C373G	2009	C425E	2009	C499	2009	C539R	2009
C106B	1067	C155	2010	C284HA	2009	C373GR	2009	C425F	2009	C499-R(FA-1)	2061	C544	2010
C106B1	1067	C156	2010	C284HB	2009	C373W	2009	C426	2030	C499-Y(FA-1)	2061	C544D	2010
C106B2	1067	C157	2009	C286(TRANSISTOR)	2010	C374	2016	C443	2030	C499Y	2061	C544E	2010
C106B3	1067	C158	2009	C289	2010	C374-BL	2016	C444	2009	C499Y	2061	C544F	2010
C106B4	1067	C159	2009	C291(TRANSISTOR)	2030	C374-V	2016	C450	2009	C501(TRANSISTOR)	2030	C545	2010
C106C	1020	C160	2009	C296	2016	C374JA	2016	C454	2009	C503	2030	C545A	2010
C106C1	1020	C166	2009	C300	2009	C375	2010	C454A	2009	C503-O	2030	C545B	2010
C106C2	1020	C167	2009	C301	2009	C375-0	2010	C454B	2009	C503-Y	2030	C545C	2010
C106C3	1020	C170	2009	C302(JAPAN)	2009	C375-Y	2010	C454C	2009	C503GR	2030	C545D	2010
C106C4	1020	C171	2009	C306	2030	C376	2009	C454D	2009	C504	2030	C545E	

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C564Q	2009	C668D1	2010	C710(B)	2009	C744	2030	C816K	2030	C871D	2009	C927A	2016
C564R	2009	C668DE	2010	C710(C)	2009	C748	2010	C826	2030	C871E	2009	C927B	2016
C564S	2009	C668DO	2010	C710(D)	2009	C752	2009	C827	2030	C871F	2009	C927C	2016
C564T	2009	C668DV	2010	C710-1	2009	C752G	2009	C828	2009	C871G	2009	C927CJ	2016
C580	2030	C668DX	2010	C710-2	2009	C760	2009	C828-O	2009	C875	2030	C927CU	2016
C586	2041	C668DZ	2010	C710-4	2009	C761	2016	C828-OP	2009	C875-1	2030	C927CW	2016
C587	2009	C668E	2010	C710B	2009	C761Y	2016	C828A	2009	C875-1C	2030	C927D	2016
C587A	2009	C668E1	2010	C710B2	2009	C761Z	2016	C828AP	2009	C875-1D	2030	C927E	2016
C588	2009	C668E2	2010	C710B3	2009	C762	2016	C828AQ	2009	C875-1E	2030	C928	2016
C590Y	2059	C668EP	2010	C710C	2009	C763	2009	C828AR	2009	C875-1F	2030	C928B	2016
C593	2009	C668EV	2010	C710D	2009	C763(C)	2010	C828AS	2009	C875-2	2030	C928C	2016
C594	2009	C668EX	2010	C710DE	2009	C763B	2058	C828B	2009	C875-2C	2030	C928D	2016
C595	2009	C668F	2010	C710E	2009	C763C	2058	C828F	2009	C875-2D	2030	C928E	2016
C596	2009	C673	2023	C711	2009	C763CD	2058	C828FR	2009	C875-2E	2030	C929	2016
C602E	2009	C673C2	2023	C711(E)	2009	C763D	2058	C828H	2009	C875-2F	2030	C929-0	2010
C610	2023	C673D	2023	C711A	2009	C765	2041	C828K	2009	C875-3	2030	C929B	2010
C611(TRANSISTOR)	2010	C674	2010	C711AE	2009	C772	2010	C828L	2009	C875-3C	2030	C929C	2010
C611A	1067	C674(JAPAN)	2010	C711D	2009	C772B	2058	C828LS	2009	C875-3D	2030	C929C1	2010
C611B	1067	C674B	2010	C711E	2009	C772BG	2058	C828N	2009	C875-3E	2030	C929D	2010
C611F	1067	C674C	2010	C711F	2009	C772BH	2058	C828P	2009	C875-3F	2030	C929D1	2010
C611G	1067	C674CV	2010	C711FG	2016	C772BV	2058	C828Q	2009	C875BR	2030	C929DE	2010
C611U	1067	C674D	2010	C711G	2016	C772BX	2058	C828QRS	2009	C875C	2030	C929DP	2010
C613	2010	C674E	2010	C712	2009	C772BY	2058	C828R	2009	C875D	2030	C929DU	2010
C619	2009	C674F	2010	C712A	2009	C772C	2058	C828R/494	2016	C875E	2030	C929DV	2010
C6198	2009	C674G	2010	C712C	2009	C772C1	2058	C828S	2009	C875F	2030	C929E	2010
C619C	2009	C682	2016	C712D	2009	C772C2	2058	C828T	2009	C876	2030	C929ED	2010
C619D	2009	C682A	2016	C712E	2009	C772CK	2058	C828W	2009	C876C	2030	C929F	2010
C620	2009	C682B	2016	C712W	2009	C772CL	2058	C828Y	2009	C876D	2030	C929FK	2010
C620C	2009	C683	2016	C713	2009	C772CS	2058	C829	2009	C876E	2030	C930	2010
C620CD	2009	C683A	2016	C714	2009	C772CU	2058	C829A	2009	C876F	2030	C930B	2010
C620D	2009	C683B	2016	C715	2009	C772CV	2058	C829B	2009	C876TV	2030	C930BK	2010
C620DE	2009	C683V	2016	C715(JAPAN)	2016	C772CX	2058	C829BC	2009	C876TVD	2030	C930BV	2010
C620E	2009	C684	2010	C715A	2009	C772D	2058	C829C	2009	C876TVE	2030	C930C	2010
C621	2009	C684(JAPAN)	2010	C715B	2009	C772DJ	2058	C829D	2009	C876TVEF	2030	C930CK	2010
C622	2009	C684A	2010	C715C	2009	C772DU	2058	C829R	2009	C889	2041	C930CL	2010
C629	2010	C684A(JAPAN)	2010	C715D	2009	C772DV	2058	C829Y	2009	C894	2059	C930CS	2010
C631	2009	C684B	2010	C715E	2009	C772DX	2058	C829Y	2009	C896	2009	C930D	2010
C631A	2009	C684BK	2010	C715EJ	2009	C772DY	2058	C835	2010	C897	2041	C930DE	2010
C632	2009	C684F	2010	C715EV	2009	C772E	2058	C836M	2010	C897A	2041	C930DH	2010
C632A	2009	C686-248-0	2023	C715F	2009	C772F	2058	C837	2010	C897B	2041	C930DS	2010
C633	2009	C687	2041	C715XL	2009	C772K	2058	C837F	2010	C897C	2041	C930DT	2010
C633-7	2009	C688	2010	C716	2059	C772KB	2058	C837H	2010	C898	2041	C930DT-2	2010
C633A	2009	C689	2009	C716B	2059	C772KC	2058	C837K	2010	C898A	2041	C930DX	2010
C633G	2009	C689H	2009	C716C	2059	C772KD	2058	C837L	2010	C898B	2041	C930DZ	2010
C633H	2009	C693	2016	C716D	2059	C772KD1	2058	C837WF	2010	C898C	2041	C930E	2010
C634	2009	C693(JAPAN)	2016	C716E	2059	C772KD2	2058	C838	2059	C899	2009	C930EP	2010
C634A	2009	C693A	2016	C716F	2059	C772R	2058	C838(H)	2059	C899K	2009	C930ET	2010
C641	2009	C693B	2016	C716G	2009	C772R(JAPAN)	2058	C838(J)	2059	C900	2016	C930EV	2010
C641B	2009	C693C	2016	C717	2010	C772RB-D	2058	C838(K)	2059	C900(L)	2016	C930EX	2010
C642	2055	C693D	2016	C717(FINAL-IF)	2009	C772RD	2058	C838(M)	2059	C900A	2016	C930F	2010
C642A	2055	C693E	2016	C717B	2010	C773	2009	C838A	2059	C900B	2016	C932	2020
C643A	2055	C693E(JAPAN)	2016	C717BK	2010	C773C	2009	C838B	2059	C900C	2016	C932E	2020
C644	2016	C693EB	2016	C717BLK	2010	C773D	2009	C838C	2059	C900D	2016	C933	2059
C644C	2016	C693ET	2016	C717C	2010	C773E	2010	C838D	2059	C900E	2016	C933BB	2059
C644F	2016	C693F	2016	C717E	2010	C774	2009	C838E	2059	C900F	2016	C933C	2059
C644F 494	2016	C693FC	2016	C720	2010	C775	2030	C838F	2059	C900L	2016	C933D	2059
C644FR	2016	C693FL	2016	C722	2016	C780	2061	C838H	2059	C900M	2016	C933E	2059
C644FS	2016	C693FU	2016	C725	2059	C780AG	2061	C838J	2059	C900S	2016	C933F	2059
C644H	2016	C693G	2016	C725-O	2059	C780AG-O	2061	C838K	2059	C900SA	2016	C933FP	2059
C644HR	2016	C693G(JAPAN)	2016	C727	2061	C780AG-R	2061	C838L	2059	C900SB	2016	C933FPC	2059
C644HS	2016	C693GL	2016	C728	2061	C780AG-Y	2061	C838M	2059	C900SC	2016	C933FPD	2059
C644P	2016	C693GS	2016	C731R	2030	C780G	2061	C838R	2059	C900SD	2016	C933FFE	2059
C644PJ	2016	C693GU	2016	C732	2016	C780	2030	C839	2009	C900U	2016	C933FPF	2059
C644Q	2016	C693GZ	2016	C732BL	2016	C784	2058	C839(H)	2009	C903D	2058	C933FPG	2009
C644R	2016	C693H	2016	C732GR	2016	C784-0	2058	C839(J)	2009	C907	2009	C933G	2009
C644RST	2016	C694	2016	C732S	2016	C784-O	2058	C839(M)	2009	C907A	2009	C934	2030
C644S	2016	C694D	2009	C732V	2016	C784A	2058	C839A	2009	C907AC	2009	C934(TRANSISTOR)	2009
C644S 494	2016	C694E	2016	C732Y	2016	C784BN	2058	C839B	2009	C907AD	2009	C934C	2009
C644ST	2016	C694F	2016	C733	2016	C784R	2058	C839C	2009	C907AH	2009	C934D	2009
C644T	2016	C694G	2016	C733-O	2016	C784Y	2058	C839D	2009	C907C	2009	C934E	2009
C645	2010	C694Z	2016	C733-O	2016	C785	2016	C839E	2009	C907D	2009	C934F	2009
C645A	2010	C696	2030	C733BL	2016	C785(0)	2058	C839F	2009	C907H	2009	C934G	2009
C645B	2010	C696A	2030	C733GR	2016	C785BN	2058	C839H	2009	C907HA	2009	C934P	2009
C645C	2010	C696B	2030	C733R	2016	C785D	2058	C839J	2009	C912	2009	C936	2055
C645G	2010	C696C	2030	C733V	2016	C785E	2058	C839L	2009	C913	2009	C938	2059
C645N	2010	C696E	2030	C733Y	2016	C785R	2058	C839M	2009	C917K	2016	C938A	2059
C646	2041	C696F	2030	C734	2059	C786	2016	C839N	2009	C918	2016	C938B	2059
C647	2041	C696G	2030	C734-O	2059	C786R	2016	C839S	2009	C920	2058	C938C	2059
C647R	2009	C696H	2030	C734-O	2059	C787	2016	C847	2009	C920E	2010	C941	2059
C648	2016	C696I	2030	C734-R	2059	C789	2020	C848	2009	C920Q	2058	C941-0	2059
C648H	2009	C701(TRANSISTOR)	2009	C734-Y	2059	C789-0	2020	C849	2009	C920R	2058	C941-O	2059
C649	2009	C702	2009	C734GR	2059	C789-0	2020	C850	2009	C921	2010	C941-R	2059
C650	2009	C705	2010	C734O	2059	C789-R	2020	C851	2041	C921C1	2010	C941-Y	2059
C650B	2009	C705B	2010	C734Y	2059	C789-Y	2020	C858	2016	C921K	2010	C941R	2059
C655	2009	C705C	2010	C735	2059	C790-O	2020	C858E	2016	C921L	2010	C943	2009
C656	2010	C705D	2010	C735(FA-3)	2010	C793	2041	C858F	2016	C921M	2010	C943A	2009
C657	2010	C705E	2010	C735(O)	2059	C793BL	2041	C858FG	2016	C922	2010	C943B	2009
C658	2010	C705F	2010	C735-O	2059	C793R	2041	C858G	2016	C922A	2010	C943C	2009
C658A	2010	C705TV	2010	C735-O	2059	C793Y	2041	C859	2016	C922B	2010	C944	2009
C659	2010	C708	2030	C735-R	2009	C794R	2041	C859E	2016	C922C	2010	C944A	2009
C662	2010	C708A	2030	C735B	2059	C796	2009	C859F	2016	C922K	2010	C944B	2009
C663	2016	C708AA	2030	C735F	2059	C797	2030	C859FG	2016	C922L	2010	C944C	2009
C664	2041	C708AB	2030	C735FA3	2059	C800	2010	C859G	2016	C922M	2010	C944D	2009

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C945H	2009	C1047E	2010	C1213AB	2059	C1358P	2055	C2300.037-096	2009	CA150	1104	CCS2006D	2010
C945K	2009	C1051	2041	C1213AC	2059	C1358Q	2055	C2538-11	2009	CA152VA	1114	CCS2008F015	2010
C945L	2009	C1051C	2041	C1213AD	2059	C1358R	2055	C3000P	1801	CA200	1104	CCS4004	2009
C945M	2009	C1051D	2041	C1213AK	2059	C1359	2009	C3001P	1801	CA224E	1711	CCS6168	2009
C945O	2009	C1051E	2041	C1213AKA	2059	C1359A	2009	C3004P	1802	CA224G	1711	CCS6168B	2009
C945P	2009	C1051F	2041	C1213AKB	2059	C1359B	2009	C3123	2010	CA239	1712	CCS6168G	2030
C945Q	2009	C1051LC	2041	C1213AKC	2059	C1359C	2009	C3710	2009	CA239A	1712	CCS6225F	2016
C945QL	2009	C1051LD	2041	C1213AKD	2059	C1360	2016	C3800P	1808	CA239AE	1712	CCS6226G	2016
C945QP	2009	C1051LE	2041	C1213B	2059	C1361	2059	CA4011	561	CA239AG	1712	CCS6227F	2030
C945R	2016	C1051LF	2041	C1213BC	2059	C1362	2009	CA4015	562	CA239E	1712	CCS6228F	2023
C945S	2009	C1060	2020	C1213C	2059	C1363	2059	CA4018	563	CA239G	1712	CCS6229H	2030
C945T	2009	C1060A	2020	C1213CD	2059	C1364	2059	CA4020	564	CA250	1104	CCS9015	2023
C945TQ	2009	C1060E	2020	C1213D	2059	C1364A	2059	C-4401	1102	CA324E	1711	CCS9016D	2010
C945TR	2009	C1060EM	2020	C1214	2059	C1367	2055	C5005	1123	CA324G	1711	CCS9016E	2010
C945X	2009	C1060C	2020	C1214A	2059	C1367A	2055	C5359	2010	CA339	1712	CCS9017	2016
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C959B	2030	C1061B	2020	C1215	2016	C1390J	2009	C6079P	1757	CA339E	1712	CCS9018H924	2016
C959C	2030	C1061C	2020	C1218	2030	C1390K	2009	C6083P	1759	CA339G	1712	CD-0000	1123
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C959SA	2030	C1061T-B	2020	C1222B	2016	C1390WI	2009	C7335-BL	2016	CA555G	1723	CD0000NC	1102
C959SB	2030	C1070	2016	C1222C	2016	C1390WX	2009	C7350RN	2009	CA741	007	CD000	1123
C959SC	2030	C1071	2009	C1222D	2016	C1390WY	2009	C7840	2058	CA741C	007	CD-00-9	1102
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C960	2030	C1072A	2030	C1278	2061	C1390XJ	2009	C9083	2023	CA741CG	007	CD0014(MORSE)	1102
C960(JAPAN)	2030	C1079	2041	C1278S	2061	C1390XK	2009	C9084	2023	CA741CS	007	CD-0014N	1123
C960A	2030	C1079R	2041	C1279	2061	C1390YM	2009	C9085	2023	CA741E	007	CD0014NA	2009
C960B	2030	C1079Y	2041	C1279S	2061	C1393	2058	C9426	2058	CA741G	007	CD0014NG	2009
C960C	2030	C1080	2041	C1280	2060	C1394	2058	C9604	2009	CA1020A	1104	CD0015N	2009
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C960S	2030	C1080Y	2041	C1280AS	2060	C1398	2020	C10110	1104	CA1458	038	CD0021	2009
C960SA	2030	C1101	2055	C1280S	2060	C1398Q	2020	C10159	1104	CA1458E	038	CD-0033	561
C960SB	2030	C1101A	2055	C1293A(LAST-IF)	2009	C1402	2041	C10176	1104	CA1458F	038	CD0033	561
C960SC	2030	C1101B	2055	C1293B	2010	C1413	2055	C10215-2	2007	CA1458G	038	CD-05	1104
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C966	2009	C1101D	2055	C1295-O	2055	C1416	2009	C10230-3	2007	CA2002	703	CD-07	1101
C967	2009	C1101E	2055	C1295A	2055	C1416BL	2009	C10258	2007	CA2002V	703	CD07	1101
C968	2009	C1101F	2055	C1308	2055	C1417	2010	C10260	2007	CA2004	703	CD-2	1104
C968P	2009	C1101L	2055	C1308K	2055	C1417C	2010	C10261	2007	CA2065	1759	CD2	1104
C972	2030	C1107Q	2020	C1309	2055	C1417D	2010	C10262	2007	CA3065	1759	CD-2N	1104
C972C	2030	C1115	2041	C1312	2016	C1417D(1)	2010	C10279-1	2016	CA3065#	1759	CD-4	1104
C972D	2030	C1123	2009	C1312F	2016	C1417D(U)	2010	C10279-3	2009	CA3065/7F	1759	CD4	1104
C972E	2030	C1126	2058	C1312G	2016	C1417DU	2010	C10291	2007	CA3065/RCA	1759	CD-20	1102
C982	2060	C1126	2016	C1312H	2016	C1417F	2010	C11021	2007	CA3065D	1759	CD31-00005	565
C983	2061	C1126(3RD-IF)	2009	C1312Y	2016	C1417G	2010	C12711	2009	CA3065E	1759	CD31-00008	561
C984	2030	C1126(S)	2058	C1312YF	2016	C1417H	2010	C12712	2030	CA3065F	1759	CD31-00012	562
C984A	2030	C1128D	2058	C1312YG	2016	C1417U	2010	C12923	2030	CA3065FC	1759	CD31-00015	563
C984B	2030	C1129	2058	C1312YH	2016	C1417V	2010	C12924	2030	CA3065F.C.	1759	CD31-00017	564
C984C	2030	C1129(R)	2058	C1313	2016	C1417VV	2010	C12925	2009	CA3065PC	1759	CD31-10365	564
C993	2009	C115	2055	C1313F	2016	C1417W	2010	C12926	2030	CA3065RCA	1759	CD31-12019	562
C997	2016	C115 A	2055	C1313G	2016	C1418	2020	C13061	2016	CA3741CE	007	CD31-12022	563
C1000	2016	C1166	2059	C1313H	2016	C1418A	2020	C13390	2009	CA3741E	007	CD31-12024	564
C1000-BL	2016	C1166-0	2059	C1313Y	2016	C1418B	2020	C13391	2009	CA6664	1104	CD31-12039	562
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C1000-Y	2016	C1166GR	2059	C1313YG	2016	C1418D	2020	C13392	2030	CA7248	1104	CD37	1102
C1000Y	2016	C1166R	2059	C1313YH	2016	C1419	2020	C13393	2030	CA8314	1104	CD-37A	1102
C1002	2016	C1166Y	2059	C1317	2059	C1419A	2020	C13394	2030	CA-9011H	2009	CD37A	1102
C1003	2009	C1170A	2055	C1317B	2059	C1419B	2020	C13398	2030	CAC5028A	2010	CD37A2	1104
C1004	2055	C1171	2055	C1317P	2059	C1419C	2020	C13901	2009	CAM-12	2009	CD38	2009
C1004A	2055	C1172	2055	C1317Q	2059	C1419D	2020	C14256	2009	CB5	1104	CD101	1123
C1005	2055	C1172A	2055	C1317R	2059	C1429	2020	C21382	1104	CB10	1104	CD437	2023
C1005A	2055	C1172B	2055	C1317S	2059	C1429-1	2020	C21383	562	CB20	1104	CD441	2016
C1006	2016	C1173	2020	C1317T	2059	C1429-2	2020	C21480	1123	CB50	1104	CD445	2023
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C1006C	2016	C1173-R	2020	C1318R	2059	C1472K	2060	C36578	2016	CB103	2007	CD461-014-614	2041
C1007	2009	C1173-Q	2020	C1318S	2059	C1537	2016	C36579	2030	CB104	2007	CD500	2023
C1008	2030	C1173-Y	2020	C1325	2055	C1537-3	2016	C36580	2009	CB106	1123	CD562	2016
C1010	2016	C1173C	2020	C1325A	2055	C1537-O	2016	C36583	2020	CB150	1104	CD1111	1104
C1010A	2016	C1173R	2020	C1327	2016	C1537B	2016	C51909B	2023	CB156	2007	CD1112	1104
C1010B	2016	C1173X0	2020	C1327FS	2016	C1537S	2016	C13900C	2030	CB157	2007	CD1113	1104
C1010C	2016	C1173X	2020	C1327U	2016	C1538	2016	C13900A	2030	CB158	2007	CD1114	1104
C1023	2010	C1173Y	2020	C1328	2016	C1538A	2016	C248507	1104	CB159	2007	CD1115	1104
C1023(JAPAN)	2010	C1175	2059	C1328T	2016	C1538S	2016	C255110-011	1102	CB163	1123	CD1116	1104
C1023-O	2010	C1175C	2059	C1328U	2016	C1538SA	2016	C256125-011	1103	CB200	1104	CD1117	1104
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C1026	2010	C1175F	2059	C1335B	2016	C1573	2061	C1945295DY1	2009	CB248	2007	CD1123	1104
C1026G	2010	C11823	2016	C1335C	2016	C1573P	2061	C2475078-3	2010	CB249	2007	CD1124	1104
C1026Y	2010	C1182C	2016	C1335D	2016	C1633	2009	C2485076-3	2030	CB250	1104	CD1125	1104
C1030P	2041	C1182D	2016	C1335E	2016	C1639	2009	C2485077-2	2030	CB254	2007	CD1126	1104
C1032	2010	C1184	2055	C1335F	2016	C1648	2016	C2485078-1	2010	CB-393	1123	CD1127	1104
C1032G	2010	C1184A	2055	C1342	2010	C1658Q	2061	C2485079-1	2010	CB393	1123	CD1141	1104
C1032Y	2010	C1184B	2055	C1342A	2010	C1667	2041	C6141990	1102	CC102BA	1104	CD1142	1104
C1033	2061	C1184C	2055	C1342B	2010	C1674	2010	C6862400	2009	CC102DA	1104	CD1143	1104
C1033A	2061	C1184D	2055	C1342C									

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CD4001CN	2401	CD312055	562	CDQ1000B	2009	CER670A	1104	CIL511	2010	CK790	2007	CP102MA	1104
CD4001MJ	2401	CD3212055(ZENER)	562	CDQ1000P	2009	CER670B	1104	CIL512	2010	CK791	2007	CP102PA	1114
CD4001MW	2401	CD386X7-5	2009	CDQ10010	2009	CER670C	1104	CIL513	2010	CK792	2007	CP102RA	1114
CD4001UBD	2401	CD3430	2009	CDQ10011	2009	CER680	1104	CIL521	2010	CK794	2007	CP102VA	1114
CD4001UBF	2401	CD3496	2023	CDQ10012	2030	CER680A	1104	CIL522	2010	CK870	2007	CP103	1114
CD4009AE	2449	CD3587	2030	CDQ10014	2030	CER680B	1104	CIL523	2010	CK871	2007	CP152VA	1114
CD4011	2411	CD3745(ZENITH)	2030	CDQ10016	2009	CER680C	1104	CIL-531	2009	CK872	2007	CP400	2041
CD4011AD	2411	CD3746	2009	CDQ10017	2009	CER690	1104	CIL531	2010	CK875	2007	CP401	2041
CD4011AE	2411	CD3746(ZENITH)	2009	CDQ10018	2009	CER690A	1104	CIL-532	2009	CK878	2007	CP403	2061
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CD4011BE	2411	CD32510C	2009	CDQ10024	2009	CER700C	1104	CJ5204	2007	CK942	2023	CP409	2030
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CD4011BMW	2411	CD34023A130	2009	CDQ10027	2009	CER710B	1104	CJ-5207	2009	CL025	1104	CP703	2061
CD4011CJ	2411	CD35090	2010	CDQ10028	2009	CER710C	1104	CJ5207	2009	CL1	1104	CP2357	2030
CD4011CN	2411	CD35090-1B	2010	CDQ10032	2009	CER720	1114	CJ-5208	2009	CL1.5	1104	CP3212055	562
CD4011MJ	2411	CD35090	2030	CDQ10033	2030	CER720A	1114	CJ-5210	2030	CL2	1104	CQ1	2007
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CD4013	2413	CD38000	2009	CDQ10052	2030	CER730B	1114	CJ5212	2009	CL7	1104	CR02AN4	1067
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CD4013AE	2413	CD38060-1	2050	CDQ10057	2030	CF-092	562	CJ5214	2030	CL166C	2009	CR1-051C	1067
CD4013AF	2413	CD38060-1B	2009	CDQ10058	2030	CF1	2010	CJ5215	2030	CL166C.D	2009	CR1-051CA	1067
CD4013BCJ	2413	CD38060-1C	2030	CDR-2	1104	CF-2	2009	CK4	2007	CL166D	2009	CR1-101C	1067
CD4013BCN	2413	CD38060-CM	2030	CDR-4	1104	CF2	2009	CK4A	2007	CLM05	1104	CR1-101CA	1067
CD4013BD	2413	CD38001	2009	CDS-16B	1104	CF5	2009	CK13	2007	CLM1	1104	CR1-201C	1067
CD4013BE	2413	CD38001	2009	CDZ-9V	562	CF1A	2009	CK13A	2007	CM0770	2030	CR1 201CA	1067
CD4013BF	2413	CD38002	2030	CDZ15000	2030	CF102DA	1104	CK14	2007	CM4001	2401	CR3AMZ	1020
CD4013BMJ	2413	CD38002-1	2030	CDZ-C9V	562	CF102PA	1114	CK14A	2007	CM4001AD	2401	CR3AMZB	1020
CD4013BMW	2413	CD38011B	2009	CE0360-7839	2007	CF102RA	1114	CK16	2007	CM4001AE	2401	CR101 6515	1123
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CD4017AE	2417	CD38054	2009	CE0362-7839	2007	CF152VA	1114	CK17	2007	CM4011AD	2411	CR353	1102
CD4017AF	2417	CD38201	2009	CE0398-7839	1104	CF-1295H	2030	CK17A	2007	CM4011AE	2411	CR501 6515	1104
CD4017BCJ	2417	CD38457	1102	CE0399-7839	1144	CG1	2009	CK21	2007	CM4013	2413	CR801	1104
CD4017BCN	2417	CD38900	2007	CE0495-7839	1123	CG12-L	1123	CK22A	2007	CM4013AD	2413	CR951	1114
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CD4017BE	2417	CD39060-1D	2023	CE37	1102	CG44H	1123	CK22C	2007	CM4017	2417	CR953	1114
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CD4117	563	CD315018	2009	CER67C	1104	CI2711	2009	CK398	2061	CM8640E	2007	CS16E	1104
CD4118	563	CD325100 6	2009	CER68	1104	CI2712	2009	CK419	2009	CM8640E	2007	CS16E	1104
CD4121	563	CD325100 G	2016	CER68A	1104	CI2713	2009	CK420	2009	CM8640E	2007	CS16E	1104
CD4122	563	CD360132	2009	CER68B	1104	CI2714	2009	CK421	2009	CM8640E	2007	CS16E	1104
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CD-5038	1103	CDG-00	1102	CE869	1104	CI2925	2009	CK475	2009	CM8640E	2007	CS16E	1104
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CD6153	2030	CDG-20/494	1102	CER70A	1104	CI3392	2007	CK705	1123	CM8640E	2007	CS16E	1104
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CD6157	2009	CDG-22	1102	CER70C	1104	CI3394	2009	CK706	1123	CM8640E	2007	CS16E	1104
CD6161(PIN)013-75	1103	CDG-22	1102	CER-71	1104	CI3395	2009	CK706-P	1123	CM8640E	2007	CS16E	1104
CD6375	2009	CDG-24	1102	CER71	1104	CI3396	2009	CK706A	1123	CM8640E	2007	CS16E	1104
CD8080	2009	CDG-24	1102	CER71A	1104	CI3397	2009	CK706B	1123	CM8640E	2007	CS16E	1104
CD8080-1	2009	CDG24/3490	1102	CER71B	11								

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
CS1168G	2009	CS1348	2009	CS2716	2016	CS9011(E)(F)	2009	CS9020E	2023	CTP-2001-1009	2007	CXL5404	1067
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CS1238G	2010	CS1464H	2030	CS3843	2009	CS9013G	2009	CT31-4A	1000	CX0048	1104	D-00169C	1123
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CS1238I	2010	CS1509E	2010	CS3845	2009	CS-9013HE	2009	CT32-2A	1001	CX0050	565	D-00204R	1123
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CS1244H	2010	CS1585E/F	2009	CS3859	2009	CS9013HG/3490	2009	CT100	1104	CX-0055	1102	D-00484R	563
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CS-1244X	2009	CS1585H	2010	CS3860	2009	CS-9014	2016	CT300	1104	CX093D	1759	D-00669C	1123
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CS1245T	2009	CS1596E	2016	CS3906	2023	CS9014B	2009	CT1018	2016	CXL107	2010	D20	2007
CS1248	2030	CS1609F	2030	CS4003	2009	CS9014B-C	2009	CT1019	2016	CXL108	2010	D21	2007
CS1248I	2030	CS1613	2030	CS4005	2030	CS9014C	2009	CT1020	2016	CXL109	1123	D26	2007
CS1248T	2030	CS1625	2009	CS4006	2030	CS9014C/3490	2009	CT1021	2016	CXL110	1123	D28	1104
CS1250E	2009	CS1627	2023	CS4007	2009	CS-9014D	2009	CT1022	2007	CXL112	1124	D30	2007
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CS1251E	2023	CS1664	2030	CS4013	2023	CS9014G	2009	CT1024	2007	CXL115	1101	D031(CHAN.MASTER)	
CS1251F	2023	CS1665	2009	CS4021	2009	CS9015	2023	CT1300	2010	CXL116	1104		2009
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CS1284B	2016	CS2004C	2009	CS5447	2023	CS-9016D	2058	CTN50	1114	CXL139	562	D072	2058
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CS1293	2010	CS-2007G	2010	CS-6168G	2009	CS9016F(WESTGHSE)	2009	CTN800	1114	CXL160	2007	D093	1123
CS1294E	2023	CS2007G	2009	CS6168G	2030	CS9016F(WESTGHSE)	2009	CTN1000	1114	CXL161	2016	D0123WX	1000
CS1294H	2023	CS2007H	2010	CS-6168H	2030	CS9016FG	2058	CTP50	1114	CXL164	2055	D1-2	1123
CS1295E	2009	CS2007H	2009	CS6168H	2009	CS9016GG	2058	CTP100	1114	CXL165	2055	D1-7	1104
CS1295G	2009	CS2008											

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-		
D-2	1123	D25C	1104	D38V2	2061	D133(CHAN.MASTER)	2010	D322B	2041	D3500	2055	DDA Y00001	561
D2-1	1104	D26B1	2010	D38V3	2061	D322C	2041	D322C	2041	D3530	1124	DDA Y010002	562
D2-77-1	1102	D26B2	2010	D38W7	2061	D134	2007	D323	2041	D4250	2041	DDA Y010005	562
D2G-3	553	D26C1	2010	D38W12	2061	D134(CHAN.-MASTER)	2007	D322A	2041	D4462	1102	DDA Y042001	1104
D2G-4	583	D26C2	2010	D39J1-3	2009		2007	D323B	2041	D6623	1104	DDA Y047001	1103
D2H(DIODE)	1104	D26C3	2010	D39J1	2023	D135	2007	D323C	2041	D6623A	1104	DDA Y047005	1103
D2J	1104	D26C4	2016	D39J1-6	2009	D141	2020	D325	2020	D6624	1104	DDA Y-048001	1103
D2R31	1123	D26C5	2016	D39J2	2023	D141(CHAN.MASTER)	2020	D325C	2020	D6624A	1104	DDA Y048001	1102
D2R38	2009	D26E-1	2016	D39J3	2023		2010	D325D	2020	D6625	1104	DDA Y048007	1103
D2T2904	2023	D26E-2	2010	D39J4	2023	D141H01	2020	D325E	2020	D6625A	1104	DDA Y048008	1102
D2T2904A	2023	D26E2	2010	D39J5	2023	D141H9Z	2020	D325F	2020	D6726	1102	DDA Y048012	1103
D2T2905	2023	D26E-3	2010	D39J6	2023	D1445	1104	D327	2009	D8410	1123	DDA Y048013	1103
D2T2905A	2023	D26E-4	2016	D41	2041	D146	2041	D327A	2007	D9634	2016	DDA Y048014	1103
D2U	1123	D26E-5	2016	D42C10	2020	D146UK	2041	D327B	2009	D10167	1104	DDA Y069001	1103
D2X4	1104	D26E-6	2010	D42C11	2020	D147	2041	D327C	2009	D10168	1104	DDA Y101001	1123
D2Z	562	D26E-7	2016	D42C12	2020	D149	2030	D327D	2009	D21489	1104	DDA Y103001	1104
D3A	1101	D26G-1	2016	D43C7	2027	D154	2020	D327E	2009	D-50492-01	2023	DDA Y126001	562
D3F	562	D26G1	2010	D44C1	2020	D160	2010	D327F	2009	D101167	1104	DDBY002001	1104
D3H	561	D27C1	2020	D44C2	2020	D163	2041	D328	2009	D911138-1	2030	DDBY003001	2023
D3R	1104	D27C2	2020	D44C3	2020	D164	2041	D328S	2030	D911138-2	2030	DDBY004001	2023
D3R38	1104	D27C3	2020	D44C4	2020	D172	2041	D390D	2020	D911138-3	2030	DDBY209003	2009
D3R39	1104	D27C4	2020	D44C5	2020	D173	2007	D334	2041	D911138-4	2030	DDBY216002	2058
D3U	1104	D28	1104	D44C6	2020	D174	2007	D334A	2041	D911138-5	2030	DDBY219001	2058
D3V	1104	D28A1	2020	D44C7	2020	D175	2041	D334R	2041	D911138-6	2030	DDBY222002	2009
D3W	563	D28A2	2020	D44C8	2020	D176	562	D341	2041	D911138-7	2030	DDBY224001	2016
D3Y	561	D28A3	2020	D44C8B	2020	D180A	2041	D341H	2041	D917254-2	2009	DDBY224003	2016
D3Z	1104	D28A4	2020	D44C9	2020	D180B	2041	D342	2009	D919039-2	1103	DDBY224004	2016
D4C28	2030	D28A5	2020	D44C10	2020	D180C	2041	D843	2009	D921881-1	2009	DDBY224006	2016
D4C29	2030	D28A6	2020	D44C11	2020	D180D	2041	D350Q	2055	D926640-1	2009	DDBY228001	2020
D4C30	2030	D28A7	2020	D44C12	2020	D182	2020	D355	1102	D928121	2009	DDBY233001	2009
D4C31	2030	D28A9	2020	D44CBB	2020	D183	2030	D356	2020	D34003220-001	1102	DDBY259001	2058
D4D20	2030	D28A10	2020	D44H7	2020	D184	2020	D356C	2020	DA000	1104	DDBY259002	2050
D4D21	2030	D28A12	2020	D44H10	2020	D199	2020	D356D	2020	DA001	1104	DDBY261002	2058
D4D22	2016	D28A13	2020	D44H11	2020	D200(IR)	1122	D356E	2020	DA002	1104	DDBY262001	2016
D4D24	2009	D28D1	2020	D44M1	2020	D200MP	1102	D357	2020	DA058	1114	DDBY269001	2010
D4D25	2009	D28D2	2020	D44M2	2020	D200MP(IR)	1122	D357C	2020	DA90	1123	DDBY270001	2009
D4D26	2009	D28D3	2020	D44M4	2020	D201(O)	2041	D357D	2020	DA101	1122	DDBY273001	2059
D4L	1114	D28D4	2020	D44M5	2020	D204	2030	D358	2020	DA101A	1122	DDBY277002	2059
D4M	1104	D28D5	2020	D44M7	2020	D204L	2030	D358C	2020	DA101B	1122	DDBY278001	2020
D4R	1123	D28D7	2020	D44M8	2020	D205	2030	D358D	2020	DA102	1122	DDBY278002	2020
D4R26	1104	D28D10	2020	D44M10	2020	D211	2041	D358E	2020	DA102A	1122	DDBY283001	2059
D4R39	1104	D29A4	2023	D44M11	2020	D212	2041	D359	2020	DA102B	1122	DDBY287001	2058
D5	1101	D29A5	2023	D44VH1	2020	D213	2041	D359C	2020	DA205	1102	DDBY295002	2010
D5B	564	D29A6	2023	D44VH4	2020	D215	2630	D359C2	2020	DA1703	1101	DDBY295001	2016
D5E-43	2029	D29A7	2061	D44VH7	2020	D-215-1	1103	D359D	2020	DA1704	1101	DDBY301001	2009
D5E43	2029	D29A8	2061	D44VH10	2020	D219	2030	D359D1	2020	DA2068	1114	DDBY407001	2020
D5E-45	2029	D29A9	2023	D44VM1	2020	D220	1104	D359D2	2020	DAAY001002	1123	DDBY407004	2020
D5E45	2029	D29A10	2061	D44VM4	2020	D220M	1104	D359E	2020	DAAY002001	1104	DDBY410002	2030
D5G	1104	D29A11	2061	D44VM10	2020	D221	2030	D360	2020	DAAY003002	1102	DDBY4233001	2016
D5H	1104	D29E1	2023	D45C	1104	D227	2009	D360C	2020	DAAY004001	1102	DDCY007002	2023
D5R35	1104	D29E2	2023	D45CZ	1104	D227(DIODE)	1104	D360D	2020	DAAY010092	562	DDE-201	1104
D5R39	1104	D29E4	2023	D46	1104	D227A	2009	D360E	2020	DANZ006000	1123	DDEY029001	1800
D5V	1102	D29E5	2023	D49	2020	D227B	2009	D365H	2020	DANZ006000	1123	DDEY030001	1801
D5W	561	D29E6	2023	D54W1	2055	D227C	2009	D366-O	2020	DANZ0060000	1123	DDEY084001	2411
D6	1101	D29E7	2023	D54W2	2055	D227D	2009	D366Q	2020	DAZ158800	1103	DDEY089001	2411
D6HZ	1104	D29E8	2023	D65	2007	D227E	2009	D366Q	2020	DAT1A	2007	DDFY004002	1102
D6.2	561	D29F1	2023	D65C	1104	D227F	2009	D368	2055	DAT2	2007	DDFY007001	1102
D7	1101	D29F2	2023	D66	2007	D227L	2009	D372BL	2009	DB202	1102	DDMV-1	1123
D7A30	2030	D29F3	2023	D67	2041	D227R	2009	D379	2041	DB204	1103	DDMV-2	1123
D7A31	2030	D29F4	2023	D67B	2041	D227S	2009	D379P	2041	DB206	1104	DE14	1104
D7A32	2030	D29F5	2023	D67C	2041	D227W	2009	D379Q	2041	DB210	1114	DE14A	1104
D7E	1102	D29F6	2023	D67D	2041	D233	2030	D379R	2041	DBCZ037300	2016	DE16	1104
D7Z	1102	D29F7	2023	D67E	2041	D234	2020	D379S	2041	DBCZ039404	2058	DE16A	1104
D8HZ	1114	D30A1	2023	D68	2041	D234-O	2020	D380	2055	DBCZ0373004	2016	DE104	1103
D10B1051	2010	D30A2	2023	D68B	2041	D234-O	2020	D381	2020	DBCZ0373503	2059	DE110	1103
D10B1055	2010	D30A3	2023	D68C	2041	D234-R	2020	D381L	2020	DBCZ0373504	2059	DE111	1103
D10G1051	2010	D30A4	2023	D68D	2041	D234-Y	2020	D381M	2020	DBCZ083905	2009	DE112	1103
D10G1052	2010	D30A5	2023	D68E	2041	D235	2020	D382	2020	DBCZ083906	2009	DE113	1103
D11C1B1	2030	D32H7	2061	D69	2041	D235-O	2020	D382LM	2020	DBCZ094504	2016	DE114	1103
D11C1F1	2009	D32H8	2061	D73D	2041	D235-O	2020	D389	2020	DBCZ136406	2009	DE115	1103
D11C2D1820	2059	D32H9	2061	D77	1102	D235-R	2020	D389-O	2020	DBCZ373000	2016	DE-201	1104
D11C3B1	2030	D32K1	2009	D77(DIODE)	1102	D235-Y	2020	D389-OP	2020	DC-9	2007	DE201	1104
D11C5B1	2030	D32K2	2009	D81K	1104	D235D	2020	D389A	2020	DC-10	2007	DE3101	2007
D11C5F1	2009	D32P1	2016	D82A	2041	D235G	2020	D389AFP	2020	DC-13	1123	DD4191	2023
D11C7B1	2030	D32P2	2016	D85C	1114	D235GR	2020	D389B	2020	DCM457	1102	DER1	1114
D11C10B1	2030	D32P3	2016	D90	2020	D235R	2020	D389BL	2020	DD-080	1104	D-F1A	2007
D11C11B1	2030	D32P4	2016	D91	2020	D235Y	2023	D389LB	2020	DD-003	1104	D-F-2	2041
D-12	1102	D32S1	2060	D91F	2020	D234(RECT.)	1171	D400(RECT.)	1104	DD003	1104	DDFY007001	1102
D12	2041	D32S2	2060	D92	2020	D241H	2041	D401LA	2020	DD-006	1104	DC1K	1114
D12X043	2061	D32S3	2060	D92D	2020	D257	2061	D418	2055	DD006	1104	DC1M	1104
D15A	1104	D32S4	2060	D100	1104	D286	1123	D425	2041	DD-007	1104	DC1MR	1104
D15C	1104	D32S6	2060	D101B	2007	D288	2020	D425O	2041	DD007	1104	DC1N60	1123
D16E7	2009	D32S7	2060	D105B	2007	D288A	2020	D468B	2061	DD05	1101	DC1PR	1104
D16E9	2009	D32S10	2058	D105C	1114	D288B	2020	D468C	2061	DD06	1101	DC1S34	1123
D16EC18	2009	D32W7	2061	D108	1114	D288C	2020	D800	1104	DD07	1101	D-GM-2	1123
D16G4	2010	D32W12	2009	D110	2041	D288L	2020	D513	2020	DD056	1104	DGM-2	1123
D16K1	2010	D33D28	2009	D110-0	2041	D289	2020	D562	2010	DD058	1114	DGM-3	1123
D16K2	2010	D34J1	2023	D110-R	2041	D289A	2020	D800	1114	DD-79D107-1	2041	DGM3	1123
D16K3	2010	D34J2	2023	D110-Y	2041	D289B	2020	D912	2009	DD175C	1104	DH-001	1104
D16K4	2010	D34J4	2023	D111	2041	D289C	2020	D975	1124	DD176C	1104	DH-002	1104
D16P1	2060	D34J5	2023	D111-0	2041	D292(CHAN.MASTER)	2010						

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-		
DI-0(COURIER)	562	DR300	1104	DS-16NY	1104	DS-77	2009	DT18(CHAN.MASTER)		E-044A	2007	E1010	1104
DI-8(DIODE)	1123	DR351	1123	DS-16YA	1104	DS77	2009		1104	E044A	2007	E1011	1104
DI-20	1102	DR352	1123	DS-17	1104	DS-78	2016	DT161	2089	E-065	2007	E1018N	1104
DI-42S	1104	DR365	1123	DS17	1104	DS78	2016	DT290A	1102	E-066	2007	E1031RXT	1123
DI42S	1104	DR385	1123	DS17(ADMIRAL)	1104	DS-79	1104	DT230F	1102	E066	2007	E121K	1102
DI-46	1104	DR400	1104	DS-17(SANYO)	1104	DS79	1104	DT210G	1102	E-067	2007	E1124	1104
DI46	1104	DR426	1123	DS-17-6A	1104	DS-79(OILCO)	1104	DT1110	2030	E067	2007	E1138R	1102
DI-52S	1104	DR427	1104	DS17N	1104	DS-81	2058	DT1111	2030	E-068	2007	E1143RD	1114
DI52S	1104	DR434	1123	DS-18	1104	DS81	2016	DT1112	2030	E068	2007	E1146J	1104
DI-55	1104	DR435	1104	DS18	1104	DS-82	2023	DT1120	2030	E-070	2007	E1146R	1104
DI-56	1104	DR449	1123	DS-18(GE)	1104	DS82	2023	DT1121	2030	E070	2007	E1153RB	1104
DI56	1104	DR464	1123	DS-18(SANYO)	1104	DS-83	2023	DT1122	2030	E-075L	1104	E1156RD	1104
DI-71	1104	DR500	1104	DS18(SEARS)	1104	DS83	2023	DT1311	2030	E075L	1104	E1157RNA	1104
DI-72S	1104	DR600	1104	DS18N	1104	DS-85	2016	DT1321	2030	E105	2007	E1229R	1102
DI72S	1104	DR668	1104	DS-19	2007	DS85	2016	DT1510	2030	E0704-W	1104	E1237RF	1104
DI-172S	1104	DR669	1104	DS19	1104	DS-94	2059	DT1511	2030	E-0704W	1104	E1286R	1103
DI-64S	1104	DR670	1104	DS-19(RECTIFIER)	1104	DS-97	1102	DT1512	2030	E0704W	1144	E1304R	1114
DI64S	1104	DR671	1104	DS-19(SANYO)	1104	DS97	1102	DT1520	2030	E0771-3	562	E1315R	1114
DI-646	1104	DR695	1104	DS21	2007	DS97(DELCO)	1102	DT1521	2030	E0771-7	563	E1324R	1103
DI646	1104	DR698	1104	DS-22	2007	DS99	562	DT1522	2030	E0788-C	1104	E1339R	1104
DI-647	1104	DR699	1104	DS22	2007	DS104	1102	DT1610	2009	E0788C	1104	E1410	1104
DI-648	1104	DR700	1104	DS23	2007	DS-107	565	DT1621	2030	E-01301	2030	E1411	1104
DI-649	1104	DR800	1114	DS-24	2007	DS-108	563	DT4011	2041	E03155-001	1104	E1412	1104
DI-650	1114	DR826	1104	DS24	2007	DS-113	1103	DT4110	2041	E03155-002	1104	E1412R	1104
DI650	1114	DR848	1104	DS-25	2007	DS-117	1102	DT4111	2041	E1	1104	E1413	1104
DI-705	1104	DR863	1104	DS25	2007	DS117	1102	DT4120	2041	E1A	2010	E1413R	1104
DI-1649	1104	DR900	1114	DS26	2007	DS118A	1143	DT4121	2041	E1CM-0060	705	E1415	1104
DI1649	1104	DR1000	1114	DS-27	1123	DS118B	1144	DTN206	2030	E1M3	1114	E1440	1104
DICR1	1114	DR1100	1104	DS27	1123	DS-130	1104	DT5013	2055	E1N3	1114	E1704R	1114
DID	1114	DR1575	1102	DS-28(DELCO)	2007	DS130	2007	DT5-0713	2055	E2	1104	E1717R	1114
DIE	1104	DR5101	1104	DS29	2007	DS-130B	1104	DT50713	2055	E3	1104	E1852	563
DIJ	1104	DR5102	1104	DS31	1102	DS130B	1104	DT5-403	2055	E5	1104	E2412	2007
DIJ61224	1123	DR-104532	1090	DS-31(DELCO)	1102	DS-130C	1104	DT5-409	2055	E6	1104	E2430	2009
DIJ70466	1102	DRC-81252	2007	DS31(DELCO)	1123	DS130C	1104	DT5-431	2055	E8	1114	E2431	2009
DIJ70488	1104	DRC-87540	2009	DS-32	1123	DS130D	1104	DT5-431M	2055	E9	1114	E2434	2010
DIJ70542	1123	DRS1	1104	DS32	1123	DS-130E	1104	DT5701	2055	E10	1114	E2435	2010
DIJ70544	1104	DRS2	1114	DS-33	1123	DS130E	1104	DT5-702	2055	E13-000-03	2009	E2436	2009
DIJ70545	1102	DRS101	1104	DS33	1123	DS130NA	1114	DT5702	2055	E13-000-04	2009	E2438	2007
DIJ70645	1123	DRS102	1104	DS33(DELCO)	1123	DS130NB	1104	DT5-704	2055	E13-001-02	2023	E9439	2007
DIJ70646	1123	DRS104	1104	DS-34	2007	DS130NC	1104	DT5704	2055	E13-001-03	2023	E2440	2007
DIJ70695	1104	DRS106	1104	DS34	2007	DS130ND	1104	DT5-708	2055	E13-001-04	2023	E2441	2030
DIJ71273	1102	DRS107	1114	DS-35	2007	DS130NE	1104	DT5-709	2055	E13-002-03	2009	E2444	2009
DIJ71711	1102	DRS108	1114	DS35	2007	DS130F	1104	DT5-710	2055	E13-003-00	2009	E2445	2007
DIJ71776	1123	DRS110	1114	DS-36	2007	DS-130YB	1104	DT5-712	2055	E13-003-01	2009	E2448	2007
DIJ71958	1104	DS-0065	1104	DS36	2007	DS130YC	1104	DT5-714	2055	E13-004-00	2059	E2449	2030
DIJ71959	1104	DS0065	1104	DS-37	2007	DS-130YE	1104	DT5-723	2055	E13-005-02	2009	E2450	2007
DIJ71960	1102	DS1	1104	DS37	2007	DS130YE	1104	DT5802	2055	E13-006-02	2023	E2451	2007
DIJ72164	1102	DS1-002-0	1102	DS-38	1104	DS-131	1104	DT5804	2055	E13-009-00	2055	E2452	2009
DIJ72165	562	DS1B	2009	DS38	2007	DS131	1104	DT53704	2055	E13-013-03	1101	E2453	2007
DIJ72166	1123	DS-1K	1114	DS38(CRAIG)	1104	DS-131A	1104	DT53704A	2055	E13-013-04	1101	E2454	2009
DIJ72168	1104	DS1K	1104	DS38(DELCO)	2007	DS131A	1104	DT53704B	2055	E13-017-01	1102	E2455	2009
DIJ72292	1114	DS1K7	1104	DS38(SANYO)	1104	DS-131B	1104	DU1	2007	E13-020-00	1104	E2459	2009
DIJ72293	561	DS-1M	1104	DS-39	1123	DS131B	1104	DU2	2007	E13-20-00	1104	E2461	2009
DIJ72294	1123	DS1M	1104	DS-41	2007	DS-135	1104	DU3	2007	E14C350	1104	E-2462	2007
DIJ72349	1123	DS1N	1104	DS41	2007	DS-132A	1104	DU5	2007	E20C30	1123	E2462	2007
DIK	1114	DS-1P	1104	DS-42	2007	DS132A	1104	DU12	2007	E21	1104	E2464(PNP)	2007
DIL	1104	DS1P	1104	DS42	2007	DS-132B	1104	DU400	1104	E25C5	1104	E-2465	2007
DIS-15	1104	DS-1U	1101	DS-43	562	DS132B	1104	DU600	1104	E30C60	1123	E2465	2007
DIS15	1104	DS-1-5-2	1114	DS43	562	DS133A	1104	DU800	1114	E-41	1104	E2467	2007
DK19	1123	DS2K	1104	DS-44	2009	DS133F	1104	DU1000	1114	E41	1104	E2474	2007
DK20	1123	DS2M	1114	DS44	2009	DS159	561	DW-7655	2023	E102	2062	E2475	2007
DK21	1123	DS-2N	1114	DS-45	2009	DS160 G.E.)	1104	DW6034/M	2009	E102(ELCOM)	1104	E2476	2007
DM87	1712	DS2N	1104	DS45	2009	DS230A	1104	DW6195	2030	E105	2007	E2477	2007
DM7400	1801	DS2N22	1104	DS-46	2009	DS330A	1104	DW-6505	2009	E106(ELCOM)	1104	E2478	2007
DM7400J	1801	DS2P	1144	DS46	2009	DS330B	1104	DW-6982	2030	E108(ELCOM)	1114	E2479	2007
DM7400N	1801	DS3	1104	DS-47	2009	DS-41C	1102	DW-7375	2009	E125C200	1104	E2480	2007
DM7401J	1801	DS58N-L	1104	DS47	2009	DS410	1102	DW-7655-LV00223	2023	E132	2007	E2481	2007
DM7401N	1801	DS-8	2007	DS48	562	DS-41G(AMPEX)	1102	DX-0007	1104	E135	1104	E2482	2007
DM7404N	1802	DS-10	1104	DS-51	2007	DS410(COURIER)	1102	DX-0079	1102	E143	1104	E2486	561
DM7408J	1822	DS-13	1104	DS51	2007	DS410(EMERSON)	1102	DX-0080	1102	E146	1104	E-2491B	2030
DM7408N	1822	DS13	2007	DS-52	2007	DS410(FANON)	1102	DX-0087	562	E150L	1104	E2496	2020
DM7447A N	1805	DS-13(COURIER)	1104	DS52	2007	DS410(G.E.)	1123	DX-0099	1104	E-150	1104	E2497	2009
DM7447N	1805	DS-13A(SANYO)	1104	DS-53	2007	DS-41G(MOTOROLA)	2009	DX-0161	1123	E158	2007	E2499	1104
DM7490	1808	DS13B	1144	DS53	2007	DS410(G.E.)	2009	DX-0162	1123	E-167-228	2030	E3096	2009
DM7490J	1808	DS-13B(SANYO)	1104	DS-56	2007	DS410(OLYMPIC)	1102	DX-0241	1123	E181	2007	E4676B	1104
DM7490N	1808	DS-14	2007	DS56	2007	DS410(WESTINGHOUSE)	1102	DX-0253	1123	E181A	2007	E7441	1104
DN	2009	DS14	2007	DS58(SANYO)	1104	DS410	1102	DX-0255	1102	E181B	2007	E9625	2058
DN20-00453	2030	DS-14(DIODE)	1104	DS-60	2060	DS410R	1102	DX-0270	1102	E181C	2007	E10116	1104
DND800	1102	DS-14(SANYO)	1101	DS-62	2007	DS410R(G.E.)	1123	DX-0273	1103	E181D	2007	E10157	1104
DO19	2007	DS15A	1114	DS62	2007	DS-43C	1104	DX-0299	1103	E-185B121712	2030	E10171	110

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EA030	1104	EA15X134L	2010	EA15X7244	2058	EA1129	2009	EB0003	2007	ECG989	1720	ED548	2007
EA040	1104	EA15X135	2010	EA15X7245	2016	EA1135	2009	EB1(ELCOM)	1171	ECG992	1713	ED55	2007
EA050	1104	EA15X135L	2010	EA15X7262	2009	EA1145	2009	EB2(ELCOM)	1173	ECG1155	705	ED56	2007
EA060	1104	EA15X136	2009	EA15X7263	2010	EA1318	563	EB3(ELCOM)	1171	ECG1232	703	ED57	2007
EA080	1114	EA15X137	2009	EA15X7264	2010	EA1337	2007	EB6(ELCOM)	1173	ECG3007	026	ED-60	1123
EA0X12(NPN)	2020	EA15X140	2007	EA15X7514	2009	EA1338	2007	EB9(ELCOM)	1171	ECG3012	033	ED60	1123
EA0X12(PNP)	2027	EA15X141	2007	EA15X7517	2009	EA1339	2007	EB11(ELCOM)	1173	ECG3024	019	ED150Z	2009
EA15Y11	2007	EA15X142	2009	EA15X7583	2016	EA1340	2007	EB-134144	2061	ECG3047	134	ED592K	2058
EA15X1	2009	EA15X143	2009	EA15X7586	2009	EA1342	2007	EC100	1114	ECG4001	2401	ED592M	2010
EA15X2	2007	EA15X144	2030	EA15X7587	2010	EA1343	2010	EC401	1104	ECG4001B	2401	ED-1402	2009
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EA15X4	2007	EA15X153	2009	EA15X7589	2009	EA1345	2009	EC961	2041	ECG4011B	2411	ED1402A/09-30506	2009
EA15X5	2007	EA15X157	2009	EA15X7590	2009	EA1346	2007	ECG74L5367	1835	ECG4013	2413	ED1402A/09-305066	2009
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EA15X11	2007	EA15X164	2007	EA15X7722	2010	EA1408	2009	ECG102A	2007	ECG4023B	2423	ED1402D	2009
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EA15X13	2007	EA15X168	2009	EA15X7737	2023	EA1451	2009	ECG108	2010	ECG4049B	2449	ED1502	2058
EA15X14	1104	EA15X180	2009	EA15X8118	2027	EA1452	2009	ECG109	1123	ECG4066B	2466	ED1502A	2058
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EA15X18CL	2059	EA15X190	2058	EA15X8124	2020	EA1549	2030	ECG112	1124	ECG5010A	565	ED-1502C	2058
EA15X19	2007	EA15X203	2007	EA15X8126	2043	EA1562	2010	ECG114	1101	ECG5021	563	ED1502C	2010
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EA15X19P	2007	EA15X212	2007	EA15X8442	2007	EA1564	2009	ECG116	1104	ECG5024	564	ED1502E	2010
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EA15X22	2009	EA15X233	2023	EA15X8502	2009	EA1581	2009	ECG123	2009	ECG5304	1173	ED1502R	2059
EA15X23	2007	EA15X237	2009	EA15X8511	2009	EA1628	2009	ECG123A	2009	ECG5400	1067	ED1602C	2023
EA15X24	2009	EA15X239	2010	EA15X8515	2009	EA1629	2009	ECG123AP	2009	ECG5401	1067	ED1602D	2023
EA15X25	2007	EA15X240	2009	EA15X8518	2009	EA1630	2009	ECG125	1114	ECG5402	1067	ED1702L	2009
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EA15X28	2007	EA15X242	2023	EA15X8520	2009	EA1661	1102	ECG128	1102	ECG5404	1067	ED1702L/09-305068	2009
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EA15X30	2007	EA15X247	2060	EA15X8525	2020	EA1684	2030	ECG135	565	ECG5408	1067	ED1704L	2009
EA15X31	2009	EA15X249	2059	EA15X8529	2009	EA1695	2009	ECG135A	565	ECG5409	1020	ED1802M	2023
EA15X36	2007	EA15X251	2058	EA15X8589	2010	EA1696	2009	ECG137	561	ECG5411	1067	ED1804	1104
EA15X37	2009	EA15X256	2059	EA15X8601	2009	EA1697	2009	ECG137A	561	ECG5412	1067	ED1892	1104
EA15X40	2007	EA15X258	2016	EA15X8602	2009	EA1698	2030	ECG139	562	ECG5413	1067	ED2106	1104
EA15X41	2007	EA15X259	2016	EA15X8608	2010	EA1703	2009	ECG139A	562	ECG5414	1067	ED2107	1104
EA15X43	2007	EA15X264	2016	EA15X8609	2010	EA1716	2009	ECG142	563	ECG5415	1020	ED2108	1104
EA15X44	2009	EA15X266	2060	EA15X8610	2010	EA1718	2009	ECG142A	563	ECG5421	1067	ED2109	1104
EA15X44P	2010	EA15X267	2059	EA16X1	1123	EA1733	2010	ECG145	564	ECG5422	1067	ED2110	1104
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EA15X48	2010	EA15X327	2020	EA16X9	1123	EA1793	2010	ECG156	1114	ECG5433	1067	ED2845	1104
EA15X49	2010	EA15X328	2027	EA16X11	1123	EA1872	2009	ECG159	2023	ECG5452	1067	ED2846	1104
EA15X50	2010	EA15X330	2009	EA16X13	1104	EA1873	2030	ECG160	2007	ECG5453	1067	ED2847	1114
EA15X51	2010	EA15X331	2009	EA16X20	1102	EA2131	2010	ECG161	2016	ECG5454	1067	ED2848	1114
EA15X52	2009	EA15X333	2020	EA16X21	1104	EA2132	2010	ECG164	2055	ECG5455	1067	ED2849	1114
EA15X54	2010	EA15X334	2027	EA16X22	1123	EA2133	2007	ECG165	2055	ECG5456	1020	ED2910	1114
EA15X55	2010	EA15X336	2016	EA16X27	1123	EA2134	2007	ECG166	1171	ECG5457	1020	ED2911	1114
EA15X55P	2010	EA15X350	2058	EA16X29	563	EA2135	2007	ECG168	1173	ECG5473	1020	ED2912	1114
EA15X56	2009	EA15X351	2058	EA16X30	1104	EA2140	1104	ECG172	2060	ECG5511	1067	ED2913	1114
EA15X56CL	2020	EA15X352	2016	EA16X33	1104	EA2176	2007	ECG172A	2060	ECG5512	1020	ED2914	1104
EA15X57	2030	EA15X353	2016	EA16X34	1104	EA2271	2009	ECG177	1102	ECG5600	1001	ED2915	1104
EA15X58	2009	EA15X354	2016	EA16X39	1102	EA2429	2016	ECG194	2061	ECG5601	1001	ED2916	1104
EA15X59	2009	EA15X355	2016	EA16X48	1123	EA2489	2009	ECG196	2020	ECG5602	1001	ED2917	1104
EA15X60	2009	EA15X361	2016	EA16X49	1102	EA2490	2009	ECG199	2016	ECG5603	1001	ED2918	1104
EA15X63	2009	EA15X365	2009	EA16X55	1104	EA2491	2007	ECG219	2043	ECG5604	1000	ED2919	1104
EA15X63CL	2059	EA15X367	2009	EA16X60	1102	EA2493	2010	ECG229	2058	ECG5605	1000	ED2920	1104
EA15X66	2007	EA15X370	2009	EA16X61	1102	EA2494	2010	ECG233	2059	ECG5640	1001	ED2921	1104
EA15X67	2007	EA15X371	2009	EA16X62	562	EA2495	2010	ECG234	2023	ECG5641	1001	ED2922	1114
EA15X67CL	2007	EA15X373	2009	EA16X71	1104	EA2496	2010	ECG238	2055	ECG5642	1000	ED2923	1114
EA15X68	2009	EA15X374	2058	EA16X74	562	EA2497	2007	ECG241	2020	ECG5650	1001	ED2924	1114
EA15X72	2009	EA15X376	2058	EA16X75	1102	EA2498	2007	ECG261	2068	ECG5651	1001	ED3000	1104
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EA15X75	2009	EA15X386	2016	EA16X80	561	EA2500	563	ECG281	2043	ECG5800	1141	ED3000B	1104
EA15X75CL	2059	EA15X393	2058	EA16X82	562	EA2501	1104	ECG287	2061	ECG5801	1143	ED3001	1104
EA15X76	2009	EA15X395	2023	EA16X84	1102	EA2502	1123	ECG289	2059	ECG5802	1143	ED3001A	1104
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EA15X91	2009	EA15X7112	2009	EA16X146	1102	EA2770	2009	ECG552	1104	ED2(ELCOM)	1124	ED3005	1104
EA15X94	2010	EA15X7113	2010	EA16X149	1114	EA2770(N)	2009	ECG712	1759	ED3(ELCOM)	1124	ED3005A	1104
EA15X94CL	2010	EA15X7115	2009	EA16X152	1103	EA2771	2016	ECG740	706	ED-4	1104	ED3005B	1104
EA15X94P	2010	EA											

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ED514721	1102	ELP12G	563	EP15K33	2030	EQ-09R	562	ER102D	1104	ES15X55	2007	ES57X12	1102
ED515790	1102	ELP14	564	EP15X37	2010	EQA01-01	562	ER103D	1104	ES15X56	2016	ES62(ELCOM)	2000
ED516420	1102	ELP15	564	EP15X30	2010	EQA01-05	565	ER103E	1104	ES15X57	2016	ES64(ELCOM)	2000
ED536062	1102	EM1 J2	1104	EP15X39	2009	EQA01-05S	565	ER104D	1104	ES15X58	2009	ES65(ELCOM)	2000
ED560913	1102	EM17	1104	EP15X41	2058	EQA01-05T	565	ER105D	1104	ES15X60	2010	ES69(ELCOM)	2041
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EDC-TR-11-1	2016	EM403	1104	EP15X45	2055	EQA01-09(R)	562	ER108D	1114	ES15X63	2007	ES75(ELCOM)	2060
EDC-TR11-5	2030	EM404	1104	EP15X47	2009	EQA01-09R	562	ER181	1104	ES15X64	2009	ES75X1	1759
EDG-0801	1123	EM405	1104	EP15X48	2023	EQA01-067	561	ER182	1104	ES15X65	2016	ES80(ELCOM)	2020
EDG-0803	1123	EM406	1104	EP15X48(PNP)	2009	EQA01-12	563	ER183	1104	ES15X66	2010	ES81(ELCOM)	1727
EDG-0806	1123	EM407	1104	EP15X48(PNP)	2023	EQA01-12R	563	ER184	1104	ES15X67	2010	ES84X3	2009
EDG-0014	1102	EM408	1104	EP15X49	2009	EQA01-12S	563	ER185	1104	ES15X68	2009	ES84X6	1759
EDG-1	1123	EM410	1104	EP15X52	2023	EQA01-12Z	563	ER186	1114	ES15X69	2010	ES85(ELCOM)	2009
EDG-3	1123	EM501	1104	EP15X53	2023	EQA01-15	564	ER187	1114	ES15X70	2009	ES86(ELCOM)	2016
EDG-6	1123	EM502	1104	EP15X54	2059	EQA01-15R	564	ER201	1104	ES15X72	2007	ES90	2043
EDH6023	1103	EM503	1104	EP15X55	2010	EQA01-15RLV	564	ER301	1104	ES15X73	2007	ES90(ELCOM)	2043
EDJ-363	1104	EM504	1104	EP15X57	2023	EQA09R	562	ER308	1114	ES15X76	2009	ES95	2055
EDO-219	2009	EM505	1104	EP15X60	2023	EQA-0109S	562	ER310	1114	ES15X79	2010	ES95(ELCOM)	2055
EDS-0801	1102	EM506	1104	EP15X68	2020	EQA-9	562	ER381	1104	ES15X80	2016	ES97	2061
EDS 0902	1104	EM907	1114	EP15X83	2009	EQA-9	562	ER401	1104	ES15X81	2010	ES97(ELCOM)	2061
EDS-0904	1104	EM508	1114	EP15X85	2009	EQB01	563	ER410	1104	ES15X82	2010	ES103	2030
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EDS-24	1104	EMS73279	2030	EP15X97	2020	EQB01-12M	563	ERB11-01	1104	ES15X93	2030	ES3114	2007
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EE6A 5.1	565	EN697	2009	EP15X104	2009	EQB01-15ZB	564	ERB12-02V	1104	ES15X101	2023	ES3122	2007
EESA-6.2	561	EN706	2009	EP15X106	1067	EQB01-905	562	ERB12-11	1104	ES15X102	2010	ES3123	2007
EESA-9.1	562	EN708	2009	EP15X107	2023	EQG01-12A	563	ERB22-15	1104	ES15X104	2016	ES3124	2007
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EESA-15	564	EN722	2023	EP15X123	2016	EQG-12A	563	ERB24(GE)	1104	ES15X106	2023	ES3126	2007
EE100	2007	EN744	2009	EP15X125	2010	EQG-15	2007	ERB24-04C	1104	ES15X107	2059	ES3266	2010
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EG100H	1104	EN915	2009	EP15X143	2009	EQS-0061	2016	ERB-24-05A	1104	ES15X122	2016	ES10189	1123
EH-1Z	1104	EN916	2010	EP16X3	1123	EQS-0100	2009	ERB24-06A	1104	ES15X123	2016	ES10222	2009
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EH2C11 / 7 + 12/1	1104	EN930	2009	EP16X5	564	EQS-0196	2009	ERB24-06C	1104	ES15X127	2059	ES10224	1123
EH16X20	1102	EN956	2009	EP16X7	2030	EQS-0198	2009	ERB28-02	1104	ES15X128	2023	ES10225	1123
EI3-006-02	2023	EN1132	2023	EP16X13	1104	EQS-5	2009	ERB28-04	1104	ES15X502SB77C	2007	ES10231	2016
EICM-0060	705	EN1633	2030	EP16X15	1102	EQS-9	2009	ERB28-04D	1104	ES15X532SB155A	2007	ES10232	2009
EKI36	2007	EN1711	2030	EP16X20	1102	EQS-10	2016	ERB28-04DV	1114	ES15X552SA15V	2007	ES10233	1104
EKI59	2007	EN2219	2009	EP16X22	1102	EQS-11	2016	ERB2406A	1104	ES15X612SA351B	2007	ES10234	563
EL75	2050	EN2222	2009	EP16X23	1102	EQS-13	2009	ERC01-02L	1114	ES16(ELCOM)	1104	ES19046	2010
EL214	2036	EN2369A	2009	EP16X25	565	EQS-18	2010	ERC01-06	1114	ES16K3	1123	ES19047	2010
EL231	2010	EN2484	2016	EP16X27	1102	EQS-21	2010	ERC04-06	1114	ES16K3	1123	ES19048	2009
EL232	2009	EN2894	2023	EP16X36	563	EQS-22	2009	ERC04-10	1114	ES16X4	1102	ES19049	2016
EL238	2009	EN2894A	2023	EP16X49	1103	EQS-61	2009	ERC24-04	1104	ES16X5	1123	ES19050	2009
EL401	2060	EN2907	2023	EP16X50	1103	EQS-62	2009	ERC24-06	1114	ES16X6	1123	ES19052	2016
EL403	2059	EN3009	2009	EP16X51	1103	EQS-64	2009	ERD300	1104	ES16X7	1123	ES19054	1123
EL434	2010	EN3011	2009	EP16X53	1123	EQS-78	2009	ERD400	1104	ES16X8	563	ES19056	1104
EL442	2009	EN3013	2009	EP16X58	564	EQS-100	2009	ERD700	1114	ES16X9	1104	ES19057	1102
ELM100	2007	EN3014	2009	EP16X59	1103	EQS-131	2016	ERD800	1114	ES16X12	1123	ES19102	2010
ELM102	2007	EN3250	2023	EP16X66	1103	EQS131	2030	ERD900	1114	ES16X13	1104	ES19226	2030
ELM102A	2007	EN3504	2023	EP16X68	564	EQS-139	2050	ERD1000	1114	ES16X14	1103	ESA-06	1173
ELM107	2010	EN3903	2009	EP16X71	1104	EQS-140	2020	ERS100	2030	ES16X23	1102	ESA06	1173
ELM108	2010	EN3904	2009	EP16X149	1104	EQS140	2020	ERV-02F2150	1104	ES16X24	1102	ESA10-99	1104
ELM109	1123	EN3905	2023	EP16X154	1104	ER1	1104	ES-1	1104	ES16X25	1104	ESA10-99	1104
ELM112	1124	EN3906	2023	EP25	2023	ER1B22-15	1104	ES1(ELCOM)	2007	ES16X27	1102	ESA-10C	1104
ELM114	1101	EN3962	2023	EP57X1	1104	ER2	1104	ES1KX122	2058	ES16X30	1102	ESA-10N	1104
ELM116	1104	EN5172	2010	EP57X4	1104	ER5(ELCOM)	1101	ES2(ELCOM)	2007	ES16X32	1102	ESA213	2007
ELM117	1104	EO-44A	2007	EP57X5	1104	ER11	1104	ES3	2007	ES16X33	1114	ESA233	2007
ELM120	1101	EO44A	2007	EP57X10	1104	ER12	1104	ES3(ELCOM)	2007	ES16X38	1104	ESD710964P	2006
ELM123	2009	EO65	2007	EP57X12	1104	ER15X4	2007	ES8(ELCOM)	2007	ES16X40	1102	ESK 1	1104
ELM123A	2009	EO66	2007	EP57X54	1104	ER15X5	2007	ES11	2010	ES16X103	1123	ESK1	1104
ELM125	1114	EO67	2007	EP84X2	1759	ER15X6	2007	ES11(ELCOM)	2007	ES17(ELCOM)	2007	ESK1 02	1104
ELM128	2030	EO68	2007	EP84X6	1759	ER15X7	2007	ES14	2007	ES19	2007	ESK1 06	1104
ELM130	2041	EO70	2007	EP84X73	1759	ER15X9	2007	ES14(ELCOM)	2007	ES19(ELCOM)	2007	ESKE40C500	1104
ELM135	565	EO105	2007	EP-100	2020	ER15X11	2007	ES15	2010	ES20(ELCOM)	2009	ESKE125C500	1114
ELM137	561	EO704	1104	EP200	1104	ER15X12	2007	ES15(ELCOM)	2007	ES22(ELCOM)	2030	ET1	2007
ELM139	562	EO771-3	562	EP-276	2020	ER15X13	2007	ES15X1	2009	ES23	2007	ET2	2007
ELM142	563	EP-305X	2020	EP400	1104	ER15X14	2007	ES15X2	2010	ES23(ELCOM)	2007	ET3	2007
ELM152	2020	EP5X3	1104	EP-421	2027	ER15X15	2007	ES15X3	2010	ES25	2007	ET4	2007
ELM156	1114	EP6X10	1102	EP-422	2020	ER15X16	2007	ES15X4	2007	ES28(ELCOM)	2007	ET5	2007
ELM159	2023	EP15K1	2009	EP680	1104	ER15X17	2007	ES15X6	2010	ES26	2007	ET12	2007
ELM160	2007	EP15X2	2009	EP-797	2020	ER15X18	2007	ES15X7	2009	ES26(ELCOM)	2007	ET15X1	2007
ELM161	2016	EP15X3	2016	EP800	1114	ER15X19	2007	ES15X8	2007	ES30(ELCOM)(PNP)	2007	ET15X2	2010
ELM164	2055	EP15X5	2										

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ET15X30	2010	EVR9	562	F115	2041	F21490	2023	FCS9018G	2010	FM871	2010	FSP-164	2010
ET15X31	2007	EVR9A	562	F116	2041	F501196	2016	FCS9018H	2010	FM910	2010	FSP-165	2010
ET15X32	2007	EVR9B	562	F117	2055	F69916	2030	FCS9066	2010	FM911	2010	FSP-166	2010
ET15X36	2030	EVR12	563	F117A	2055	F73216	2007	FD01800	1103	FM914	2010	FSP-166-1	2010
ET15X37	2009	EVR12A	563	F118	2055	F75116	2009	FD06193	1103	FM1613	2010	FSP-215	2010
ET15X41	2009	EVR12B	563	F118A	2055	FA-1	1123	FD3	1104	FM1711	2010	FSP-242-1	2010
ET15X42	2009	EVR15	564	F119	2055	FA-1(DIODE)	1123	FD6	1104	FM2242	2009	FSP-270-1	2010
ET15X45	2009	EVR15A	564	F119A	2055	FA-1(SEARS)	2009	FD100	1103	FM2368	2010	FSP-288-1	1104
ET15X54	2009	EVR15B	564	F120	2055	FA-4	1114	FD111	1103	FM2369	2010	FSP-289-1	2010
ET16X1	1123	EW162	2010	F120A	2055	FA4	1104	FD200	1102	FM2846	2010	FST2	1104
ET16X6	1124	EW163	2010	F121-546	2009	FA6	1104	FD222	1102	FM3014	2010	FST3	1104
ET16X13	1124	EW164	2010	F121-433804	2009	FA8	1114	FD300	1104	FMP5-A20	2009	FT001	2030
ET16X14	1124	EW165	2010	F136	1123	FA111	1102	FD333	1103	FMP5A20	2009	FT002	2030
ET16X15	563	EW165V	2009	F209	2023	FA2310E	1102	FD600	1103	FN-51-1A	2009	FT003	2030
ET16X19	1123	EW166	1123	F215-1001	2010	FA2310U	1102	FD777	1103	FO5	1104	FT004	2030
ET16X20	1123	EW167	1123	F215-1002	2010	FA2320E	1102	FD-1029-4	2023	FOR1A411E	1067	FT004A	2030
ET16X21	1123	EW169	1114	F215-1003	2010	FA2320U	1102	FD-1029-4&8	2023	FOS100	2016	FT005	2009
ET41X37	1123	EW169B	1104	F215-1004	2010	FA2330E	1102	FD-1029-BG	2007	FOS101	2016	FT006	2009
ET51X3	2009	EW181	2009	F215-1005	2010	FA2330U	1102	FD-1029-DF	1104	FOS104	2009	FT008	2009
ET51X25	1104	EW182	2009	F215-1006	2007	FA8009	564	FD-1029-DG	1104	FR40-1001	2009	FT008A	2009
ET52X25	1104	EW183	2027	F215-1007	2007	FA8010	564	FD-1029-EE	2007	FR40-1003	2010	FT0019H	2030
ET55-25	1104	EW212	2016	F215-1008	2007	FA8011	564	FD-1029-FY	2030	FR40-1004	2007	FT0019M	2023
ET55X25	1104	EWQ202	2023	F215-1009	2007	FA8012	564	FD-1029-GE	2030	FR40-1005	2007	FT023	2009
ET55X29	1104	EW5-78	2016	F215-1010	1123	FB-200	1173	FD-1029-GM	2030	FR40-1006	1123	FT024	2009
ET57X25	1104	EX15X25	2007	F215-1012	1123	FB200	1173	FD-1029-GP	1103	FR50-1001	2009	FT025	2009
ET57X26	1101	EX15X336	2010	F215-1013	1123	FB401	2007	FD-1029-JA	2009	FR50-1002	2009	FT026	2009
ET57X29	1104	EX16X10	1102	F215-1014	1123	FB402	2007	FD-1029-JN	2030	FR50-1003	2010	FT027	2030
ET57X30	1104	EX16X27	1102	F215-1016	1104	FB403	2007	FD-1029-LL	2009	FR50-1004	2010	FT052	2023
ET57X33	1104	EX48	1759	F215-1017	1104	FB420	2007	FD-1029-LW	2043	FR50-1005	2007	FT053	2009
ET57X33*	1101	EX76-X	1104	F222	2009	FB421	2007	FD-1029-MB	2023	FR50-1006	2007	FT-1	1104
ET57X35	1104	EX89-211-X	1123	F266A	1020	FB440	2007	FD-1029-MC	1102	FR50-1011	1104	FT1	1102
ET57X38	1104	EX142-X	1102	F-302-1	2009	FB1043	1123	FD-1029-MM	2030	FR-1	1104	FT1(SHARP)	1102
ET200	1104	EX499-X	2009	F302-1	2009	FB6853	2009	FD-1029-NG	2009	FR1	1104	FT-1N	1104
ET400	1104	EX500-X	2009	F302-2	2009	FBC237	2009	FD-1029-PA	2030	FR1D	1102	FT1N	1104
ET600	1104	EX695-X	2009	F-302-1532	2009	FBN-36220	2041	FD-1029-PP	2009	FR-1H	1104	FT-10	1104
ET1511	2007	EX744-X	2030	F302-1532	2009	FBN-36485	2041	FD-1029-PT	2009	FR-1H(M)	1104	FT10	1114
ET35035	2023	EX746-X	2023	F-302-2532	2009	FBN-36603	2041	FD1029EE	2007	FR-1HM	1104	FT11A	1104
ET234843	2009	EX748-X	2009	F302-2532	2009	FBN-CP2293	2007	FD-1073-BF	1801	FR-1M	1104	FT19H	2023
ET234854	2059	EX888-X	2009	F306-001	2009	FBN-CP34634	2030	FD-1073-BJ	1802	FR1M	1104	FT19M	2023
ET238894	2009	EX-141216	2030	F306-022	2009	FBN-1109	2030	FD-1073-BM	1822	FR1MB	1104	FT40	2009
ET329218	2059	EXV420DIR5JB	1123	F318-1	2030	FBN-1113	2030	FD1559	1144	FR-1MD	1104	FT45	2016
ET350335	2023	EYV-320D1R2J	1102	F361	2030	FBN-1115	2030	FD1599	1104	FR1MD	1104	FT107A	2060
ET352146	2059	EYV-420D1R5JA	1104	F366	2009	FBN-1148	2030	FD1708	1102	FR-1N	1104	FT107B	2016
ET368021	2009	EYV420DIR5JB	1123	F501	2016	FBTX070	2030	FD1843	1102	FR-1P	1104	FT118	2016
ET379262	2016	EYV420DIR5JB	1123	F501(ZENITH)	2016	FC5006	2010	FD1980	1123	FR1P	1104	FT402	2055
ET379462	2016	EYZP-384	1102	F501-16	2016	FCD0003PC	1102	FD3389	1104	FR-1U	1104	FT709	2010
ET380834	2016	EYZP-546	2023	F502	2016	FCD0014NCS	1102	FD3405	1101	FR1U	1104	FT1315	2010
ET398711	2016	EYZP-623	2023	F502(ZENITH)	2016	FCS916F	2058	FD6451	1102	FR-2	1104	FT1324B	2010
ET398777	2016	EYZP623	2023	F523	2016	FCS1168E	2010	FD6489	1102	FR2	1104	FT1324C	2010
ET412626	2009	EYZP-632	2009	F531	2009	FCS1168E641	2010	FDH-9	1102	FR2(S1B1)	1104	FT1341	2023
ET517263	2016	EYZP632	2009	F549-1	2023	FCS1168F813	2009	FDH400	1104	FR2-02	1104	FT1746	2023
ET517994	1104	EYZP-791	2009	F572-1	2009	FCS1168G	2009	FDH444	1103	FR2-02(DIO)	1104	FT3055	2020
ETD-1N60	1123	EYZP791	2009	F587	2009	FCS1168G704	2009	FDH666	1102	FR2-02C	1104	FT3567	2009
ETD152788	1102	EYZP-808	2023	F625-1	2030	FCS1170F	2023	FDH694	1102	FR2-06	1114	FT3568	2009
ETD-10D1	1104	EYZP#08	2023	F699	2023	FCS1225E	2010	FDH900	1102	FR2-020	1104	FT3569	2009
ETD-10D2	1104	EZ9(ELCOM)	562	F2427	2010	FCS1227E	2010	FDH999	1103	FR2-02	1104	FT3638	2023
ETD-5046	1123	EZ12(ELCOM)	563	F2443	2009	FCS1227E814	2010	FDH6229	1102	FR2-OZ	1104	FT3643	2009
ETDCDG21	1102	EZ15(ELCOM)	564	F2448	2009	FCS1227F	2010	FDH1006	1102	FR2-M	1104	FT4354	2023
ETD-RD9.1FB	562	EZ150	564	F2450	2010	FCS1227F743	2010	FDH1007	1102	FR2M	1104	FT4355	2023
ETD-5D46	1123	F-05	1104	F2480	2007	FCS1227G	2010	FDH600	1102	FR-2P	1104	FT5040	2023
ETD-SG9150	1102	F05	1104	F2584	2009	FCS1227G810	2010	FDH666	1102	FR2P	1104	FT5041	2023
ETD-V06C	1104	F1	1104	F2633	2010	FCS1229	2030	FG-2NA	1104	FR2PC	1144	FU1M	1104
ETI-23	705	F2	1104	F2634	2010	FCS1229F	2009	FG79	2016	FR-10	1114	FU-1MA	1104
ETS-003	2041	F3	1104	F2636	2010	FCS1229G	2009	FG-12377	1102	FR10	1104	FU-1N	1104
ETS-905	2041	F4	1104	F3519	2009	FCS8050C	2059	FH100	1124	FR-202	1104	FU1NA	1104
ETS-068	2009	F5	1104	F3530	2010	FCS8550	2023	FH1100	1124	FR202	1104	FU1U	1104
ETS-070	2030	F6	1104	F3532	2009	FCS8550C	2023	FI-1023	2010	FR206	1114	FU6A7723393	1740
ETTB-25B176	2007	F8	1114	F3535	2016	FCS9011E	2009	FI-1007	2023	FRH-101	1104	FU9A7723393	1740
ETTB-25B176A	2007	F10	1114	F3559	2023	FCS9011F	2009	FI-1008	2023	FRH101	1104	FU97741393	607
ETTB-25B176B	2007	F14	1104	F3560	2030	FCS9011G	2009	FI-1021	2023	FR53693	2009	FU-1M	1104
ETTB-25B176R	2007	F14-C	1104	F3561	2030	FCS9011H	2009	FI1023	2010	FR-U	1104	FU1U	1104
ETTB-75L8	2007	F14A	1104	F3565	2030	FCS9012	2023	FIP100D	1144	FS19	1123	FV-22	561
ETTC-458LG	2009	F14AP	1104	F3569	2009	FCS-9012-HH	2023	FIJ1033	2010	FS-1133	2010	FV22	561
ETTC-930D	2058	F14B	1114	F3570	2023	FCS-9012F	2023	FIJH131	1801	FS1168E641	2009	FV-23	1123
ETTC-945	2016	F14BP	1104	F3571	2009	FCS-9012G	2023	FIJH231	1801	FS1168F813	2009	FV23	1123
ETTC-CD8000	2009	F14C	1104	F3574	2016	FCS9012G	2023	FIJH241	1802	FS1221	2009	FV914	2010
ETTC-CD12000	2009	F14D	1114	F3589	2030	FCS9012H	2023	FIJH311	1801	FS1308	2010	FV918	2010
ETTC-CD13000	2009	F14CP	1104	F3590	2023	FCS9012HE	2023	FJJ141	1808	FS1331	2030	FV2369A	2010
ETT-CDC-12000	2009	F14D	1114	F3597	2023	FCS9012HG	2023	FJT1101	1101	FS1682	2016	FV2484	2010
ETTD-235	2020	F14E	1114	F4001	2401	FCS9013	2009	FJT1118	1101	FS1974	2009	FV2747C	2007
ETX18	2009	F14F	1114	F4011	2411	FCS-9013F	2009	FJT1134	1101	FS1990	2023	FV3014	2010
EU1	1104	F14H	1114	F4011PC	2411	FCS9013F	2009	FK914	2010	FS2003-1	2041	FV3299	2010
EU-2	1104	F14J	1114	F4013	2413	FCS9013FG	2009	FK918	2010	FS2043	2009	FV3300	2010
EU15X1	2010	F16H1	561	F4017	2417	FCS-9013G	2009	FK2369A	2010	FS2299	2007	FV3502	2061
EU15X2	2010	F20-1001	2010	F4023	2423	FCS9013G	2009	FK2484	2010	FS3266	2010	FV3503	2061
EU15X3	2010	F20-1002	2010	F4049	2449	FCS9013H	2009	FK3014	2010	FS3683	2010	Fw50	1171
EU15X4	1124	F20-1003	2010	F4049PC	2449	FCS9013HG	2009	FK3299	2010	FS-7812	1771	FW100	1104
EU15X6	2010	F20-1004											

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FX3013	2058	G05-413D	2009	G820	1123	GC1150	2007	GE-220	2061	GES5448	2023	GET4871	2029
FX3014	2058	G05-706-D	2016	G821	1123	GC1155	2007	GE-222	2061	GES5449	2009	GET5116	2007
FX3300	2009	G05-706-E	2016	G822	1123	GC1159	2007	GE-237	2055	GES5450	2009	GET5117	2007
FX3502	2061	G01036A	562	G823	1123	GC1182	2007	GE-238	2055	GES5451	2009	GET5305	2060
FX3964	2023	G01036A	561	G824	1123	GC1183	2007	GE-241	2020	GES5811	2023	GET5306	2060
FX4046	2009	G01036G	562	G825	1123	GC1184	2007	GE-243	2030	GES5813	2023	GET5307	2060
FZ5.1T5	565	G01209	1102	G844	1123	GC1186	2007	GE-245	2007	GES5814	2009	GET5308	2060
FZ5.1T10	565	G01209B	1102	G845	1123	GC1187	2007	GE-259	2055	GES5815	2023	GET5308A	2060
FZ6.2T10	561	G01211	1104	G846	1123	GC1257	2007	GE-262	2041	GES5816	2009	GEVR-102	1770
FZ6.5T10	561	G01803	1102	G847	1123	GC1302	2007	GE-263	2043	GES5817	2023	GEVR-105	1773
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FZ15A	564	G05004A	2010	G1010	1123	GC4022	2007	GE-327	2058	GES5822	2009	GE-X16A1938	2009
FZ15T5	564	G05015C	2009	G1010A	1102	GC4144	2007	GE-414	1102	GES5823	2023	GE-X36	1104
FZ15T10	564	G05035D	2016	G1242	1104	GC5000	2007	GE414	1102	GES5824	2023	GE-X36	1104
FZ101	2009	G05035E	2009	G1288	1123	GC5010	2007	GE-504	1104	GES5825	2009	GE-X66	1123
FZ901	565	G05036	2009	G9423	2009	GC5012	1123	GE-504A	1104	GES5826	2009	GE-X66	1104
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G0002	2007	G05037B	2009	G9696	2009	GD5E	1123	GE-512	1114	GES6002	2009	GEZD-12	563
G0003	2007	G05059	2009	G10119	1104	GD6E	1123	GE-514	1103	GES6003	2023	GEZD-15	564
G0006	2007	G05413A	2030	G13638	2023	GD8E	1123	GE-531	1114	GES6004	2009	GEZJ252A	1104
G0007	2007	G05413B	2030	G39050752	1740	GD10	1123	GE-3229	2020	GES6005	2023	GEZJ252B	1104
G0008	2007	G05705	2020	G395967	2009	GD11E	1123	GE-3265	2009	GES6006	2009	GF20	2007
G0009	2007	G0Q-535-B	1104	G395967-2	2009	GD12	1104	GE3265	2009	GES6007	2023	GF21	2007
G00-003-A	1123	G1	1104	G657061	1103	GD12E	1123	GE-3638	1123	GES6010	2030	GF32	2007
G00-004-A	1123	G1HA	1123	G657123	1103	GD13E	1123	GE3638	1123	GES6011	2023	GF20/15	2007
G00-008-A	1123	G2	1104	GA-52829	2007	GD-25	1123	GE-4001	2011	GES6012	2030	GF20/30	2007
G00-009-A	1123	G2A	1104	GA52829	2007	GD25	1123	GE-4011	2411	GES6013	2023	GF20/20R	2007
G00-012-A	1102	G3	1104	GA-53149	2007	GD-26	1123	GE-4013	2413	GES6014	2023	GF21/15	2007
G00-012A	1102	G4	1104	GA53149	2007	GD-29	1123	GE-4017	2417	GES6015	2030	GF21/30	2007
G00-013-B	1123	G5	1104	GA-53242	2007	GD-30	1123	GE-4023	2423	GES6016	2030	GF21R	2007
G00-014-A	1102	G5A7A66-2	2030	GA53242	2007	GD72E/3	1123	GE-4049	2449	GES6017	2023	GF225/15	2007
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G00-502A	1104	G5F	1123	GB-1	1123	GD72E/5	1123	GE-6366	1104	GES6219	2061	GF25/25R	2007
G00-534-A	1104	G5K	1123	GB1	1102	GD73E/3	1123	GE6366	1104	GES6220	2061	GF31	2007
G00-535-B	1104	G5.1T5	565	GC31	2007	GD73E/4	1123	GE-7400	1801	GES6221	2061	GF31/30	2007
G00-535A	1104	G5.1T10	565	GC32	2007	GD73E/5	1123	GE-7404	1802	GES6222	2009	GF32	2007
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G00-543-A	1104	G7	1124	GC35	2007	GD74E/5	1123	GE-7490	1808	GET103	2007	GF45	2007
G00-551-A	1104	G7A	1124	GC60	2007	GD101	1103	GEA-121	025	GET-113	2007	GF3008/40	2007
G00-803-A	1102	G7D	1123	GC61	2007	GD102	1103	GEBR-1000	1114	GET113	2007	GE-51	2007
G004	2007	G7E	1123	GC181	2007	GD400	1123	GE-CR3	1101	GET-113A	2007	GI08B	1104
G005-036C	2009	G7F	1123	GC182	2007	GD401	1123	GE-CR3	1101	GET113A	2007	GI1	2007
G005-036E	2009	G7G	1123	GC250	2007	GD402	1123	GED058850	1123	GET-114	2007	GI-1N4385	1104
G0010	2007	G8	1114	GC282	2007	GD403	1123	GEIC-2	1759	GET114	2007	GI2	2007
G00502A	1104	G9.1T5	562	GC283	2007	GD404	1123	GEIC-31	706	GET671	2007	GI3	2007
G00535	1104	G9.1T10	562	GC284	2007	GD405	1123	GEIC-147	1759	GET-672	2007	GI4	2007
G00535A	1104	G9.1T20	562	GC343	2007	GD406	1123	GEIC-148	1759	GET672	2007	GI10	2009
G01	1104	G10	1114	GC360	2007	GD409	1123	GEIC-179	705	GET-672A	2007	GI-100-1	1104
G01-036-G	562	G11	2007	GC387	2007	GD-510	1102	GEIC-190	1770	GET672A	2007	GI237	1114
G01-036-H	562	G12	2007	GC388	2007	GD510	1123	GEIC-194	1801	GET-673	2007	GI-300D	1104
G01-036A	561	G12T5	563	GC389	2007	GD556	1123	GEIC-217	1758	GET673	2007	GI411	1104
G01-037-A	563	G12T10	563	GC408	2007	GD663	1123	GEIC-218	1757	GET691	2007	GI420	1104
G01-083-A	1102	G12T20	563	GC460	2007	GD1001	1123	GEIC-220	038	GET-692	2007	GI-2711	2009
G01-209-B	1102	G13	2007	GC461	2007	GD3638	1102	GEIC-260	1740	GET692	2007	GI2711	2009
G01-209B	1102	G14	2007	GC462	2007	GD3638-00	1123	GEIC-265	007	GET693	2007	GI-2712	2009
G01-217-A	1102	G15T5	563	GC464	2007	GD5004	1123	GEIC-269	1723	GET706	2009	GI2712	2009
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G05-036C	2009	G297	1123	GC1005	2007	GE-60	2016	GES3565	2009	GET929	2030	GI-3397	2016
G05-036D	2009	G409											

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GI-3641	2009	GMO378	2007	GSM52	1104	GT2883	2007	H20052	1104	HA7633	2023	HBF4011	2411
GI-3642	2009	GMO380	2016	GSM53	1104	GT2885	2007	HA03052	2007	HA7804	2023	HBF4011A	2411
GI-3643	2009	GMO385	1104	GSM54	1104	GT2887	2007	HA03053	2007	HA7806	2023	HBF4011AE	2411
GI-3644	2009	GMO395	1104	GSM482	1104	GT5116	2007	HA-00102	2007	HA7808	2023	HBF4011AF	2411
GI-3702	2011	G01-803A	565	GSM483	1104	GT5117	2007	HA-00354	2007	HA7810	2023	HBF4013	2413
GI-3702	2011	G04-041B	2009	GSR1	1114	GT5140	2007	HA-00495	2023	HA7815	2023	HBF4013A	2413
GI-3702	2011	G05-002-A	2009	GT1	2007	GT5149	2007	HA00562	2023	HA9048	2061	HBF4013AE	2413
GI-3702	2011	G05-003-B	2009	GT2	2007	GT5151	2007	HA-00564	2023	HA9049	2061	HBF4013AF	2413
GI-3703	2011	G05-004A	2010	GT3	2007	GT5153	2007	HA-00610	2023	HA9054	2061	HBF4017	2417
GI-3703	2011	G05-010-A	2009	GT11	2007	GTE1	2007	HA-00699	2027	HA9055	2061	HBF4017A	2417
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GI-3706	2009	G05-035-D	2016	GT-14H	2007	G1J33230	2007	HA30	2007	HA9078	2061	HBF4023AE	2423
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GI-3707	2016	G05-035-F	2016	GT15T5	564	G1J33233	2007	HA50	1124	HA9531A	2061	HC-00176	2007
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GI-3794	2061	G01803	1102	GT34HV	2007	GVL20226	1103	HA104	2007	HB-00054	2007	HC-00536	2016
GI-3796	2016	G03007	2023	GT-34S	2007	GVL20265	1103	HA200	1104	HB-00056	2007	HC-00637	2030
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GI-3797-17	1104	G05026	2009	GT40	2007	GX15-1	965	HA201	2007	HB-00171	2007	HC-00658	2010
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GI-TV3	1101	G00-004-A	1123	GT44	2007	GXI15	564	HA-234B	2007	HB-00176	2007	HC-00735	2009
GJ4M	1104	G00-009-A	1123	GT45	2007	GZ1-5-1	565	HA235	2007	HB-00178	2007	HC-00772	2010
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GLA47A	565	G00-012-A	565	GT47	2007	GZ1-9-1	562	HA235A	2007	HB-00187	2007	HC-00828	2009
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GLA31A	565	G00-014-A	565	GT74	2007	GZ1-15	564	HA240	2007	HB-03370	2007	HC-00838	2009
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GLA62A	565	G00-536A	1144	GT-81H	2007	H089	563	HA-268	2007	HB-32	2007	HC-00871	2009
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GM0376	2007	GP2-346	1102	GT83	2007	H10	2007	HA330	2007	HB-56	2007	HC-00930	2010
GM0377	2007	GP2-345 MA161	1102	GT-87	2007	H50	1104	HA-352	2007	HB56	2007	HC0930	2058
GM0378	1173	GP206	1104	GT87	2007	H100	1104	HA-350	2007	HB-75	2007	HC-00945	2009
GM0380	2016	GP-257	1104	GT-88	2007	H102	2007	HA350	2007	HB75	2007	HC-01080	2016
GM-1	1114	GP258	1114	GT88	2007	H104	2009	HA-350A	2007	HB-75B	2007	HC-01047	2010
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GM-1C	1114	GP139B	2007	GT109	2007	H200	1104	HA-353C	2007	HB-77	2007	HC-01318	2030
GM112	1114	GP230	1104	GT109R	2007	H300	1104	HA-354	2007	HB77	2007	HC-01335	2016
GM-1Z	1114	GP256	1104	GT122	2007	H316	1123	HA354	2007	HB77B	2007	HC-01359	2010
GM-3	1114	GP-252	1114	GT123	2007	H400	1184	HA354B	2007	HB-77C	2007	HC-01390	2059
GM-3A	1114	GP-154	1123	GT132	2007	HA10	1104	HA400	1104	HB77C	2007	HC-01417	2010
GM-3B	1114	GP254	1123	GT-153	2007	H42	2016	HA471	1104	HB-85	2007	HC-01820	2009
GM-3Y	1114	GP254A	1123	GT153	2007	H475	1104	HA580	1104	HB-156	2007	HC01820	2009
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GM-3Z	1114	GP11NB	1123	GT210H	2007	H585	1104	HA525	2007	HB156C	2007	HC01830	2009
GM3Z	1114	GP11NC	1123	GT222	2007	H600	1104	HA590	1104	HB171	2007	HC-30	1104
GM290	2007	GP12NA	1123	GT-269	2007	H614	1123	HA800	1114	HB-172	2007	HC30	1114
GM290A	2007	GRAS-42982	2041	GT269	2007	H616	1104	HA1000	1114	HB172	2007	HC-39	1104
GM305	2016	GS73E-3	1123	GT75E	2007	H617	1184	HA1040	2007	HB-173	2007	HC39	1114
GM378	2007	GS2012G	2020	GT75H	2007	H618	1104	HA1124	1759	HB-175	2007	HC50	1114
GM378A	2007	GS2012H	2020	GT-759	2007	H619	1184	HA1124D	1759	HB175	2007	HC-56	2009
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GM378J	2007	GS2052H	2027	GT-759R	2007	H621	1114	HA1124S	1759	HB178	2007	HC-68	1104
GM366A	2007	GS2053-G	2027	GT759R	2007	H623	1102	HA1124Z	1759	HB-186	2007	HC68	1104
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GM770	2010	GS9012H	2023	GT-760R	2007	H626	1104	HA1125A	1759	HB187	2007	HC72	1114
GM875	2007	GS9012I	2023	GT760R	2007	H781	1104	HA1120	1759	HB263	2007	HC73	1114
GM876	2007	GS9012J	2023	GT-761	2007	H783	1104	HA1141	1759	HB270	2007	HC80	1104
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GME1002	2009	GS9015I	2023	GT762R	2007	H931	2009	HA3480	2007	HB4001AF	2401	HC381	2010
GME1001	2009	GS9015J	2023	GT-763	2007	H933	2009	HA3670	2007	HB4001AK	2401	HC394	

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HC-668	2016	HD2000610	1104	HEP156	1104	HEPR0051	1104	HF-05W05	1104	HJ34	2007	HR14	2009
HC668	2010	HD2000703	1104	HEP157	1104	HEPR0052	1104	HF0W05	1104	HJ34A	2007	HR-14A	2009
HC670	1104	HD2000803	1104	HEP158	1104	HEPR0053	1104	HF-15334	562	HJ37	2007	HR14A	2009
HC680	1104	HD2000903	1104	HEP159	1114	HEPR0054	1104	HF-15339	562	HJ41	2007	HR-15	2016
HC700	1104	HD2001105	1102	HEP160	1114	HEPR0055	1114	HF2	2009	HJ43	2007	HR15	2007
HC710	1104	HD2001310	1104	HEP161	1141	HEPR0056	1114	HF3	2009	HJ50	2007	HR-15A	2009
HC720	1114	HD3000101-0	563	HEP162	1143	HEPR0070	1143	HF3H	2007	HJ51	2007	HR15A	2009
HC730	1114	HD-3000301	1104	HEP166	1101	HEPR0071	1143	HF3M	2007	HJ54	2007	HR-16	2009
HC-772	2009	HD3000401	562	HEP170	1114	HEPR0072	1144	HF4	2009	HJ55	2007	HR16	2009
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HCC4023BK	2423	HE-00930	2016	HEP635	2007	HEPR0842	1152	HF50	2009	HM-00049	2007	HR21	2007
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HCL-6066	2009	HE-56-93	1103	HEP716	2023	HEPR1217	1067	HF-20034	1102	HN-00008	1104	HR24A	2007
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HD1468	1123	HE-417-821	2061	HEP722	2010	HEPR9134A	1123	HF-20052	1104	HN-00047	1102	HR26	2007
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HD2149	1123	HE-417-865	2023	HEP725	2009	HEPR9137	1103	HF-20061	1102	HO99	1101	HR-27	2007
HD2155	1123	HE-417-874	2023	HEP726	2016	HEPS0001	2061	HF-20063	1103	HP-5A	1104	HR27	2007
HD2503	1801	HE-417-875	2009	HEP727	2010	HEPS0002	2009	HF-20064	1102	HP205	1104	HR-27A	2007
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HD2519P	1808	HE-443-607	2413	HEP732	2010	HEPS0008	2058	HF-20083	1104	HR-2	2007	HR-32	2009
HD2522	1802	HE-1024	1123	HEP733	2010	HEPS0010	2058	HF-20084	1104	HR2	2007	HR32	2009
HD2522P	1802	HE-10001	1123	HEP734	2010	HEPS0011	2009	HF-20095	1102	HR-2A	2007	HR-36	2009
HD2532	1805	HE-10002	1123	HEP735	2009	HEPS0015	2009	HF-20105	1104	HR2A	2007	HR36	2009
HD2532P	1805	HE-10003	1123	HEP736	2030	HEPS0016	2010	HF-20124	1102	HR-2A(PENNCREST)	1104	HR-37	2009
HD2550	1822	HE-10024	1123	HEP737	2016	HEPS0017	2058	HF309301E	2016	HR-3	2007	HR37	2009
HD2550P	1822	HE-10025	1123	HEP738	2009	HEPS0020	2010	HF-DS410	1102	HR3	2007	HR-38	2009
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HD4011	2411	HE-10030	1102	HEPC74LS367P	1835	HEPS0022	2009	HFOW05	1104	HR4	2007	HR39	2010
HD4013	2413	HE-10040	1123	HEPC3000L	1801	HEPS0023	2016	HF-SD1	1104	HR-4A	2007	HR-40	2007
HD4017	2417	HE-15188	1123	HEPC3000P	1801	HEPS0024	2016	HF-SD-1A	1104	HR4A	2007	HR40	2007
HD4023	2423	HE-15426	1123	HEPC3001L	1801	HEPS0025	2009	HFSD1A	1104	HR5	2007	HR41	2007
HD4049	2449	HE-15446	1123	HEPC3001P	1801	HEPS0026	2023	HFSD1B	1104	HR-5A	1104	HR42	2007
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HD6125	1102	HE-C06000	1123	HEPC3004P	1802	HEPS0030	2009	HFSD12	1114	HR5A8E	1104	HR43	2007
HD6147	1104	HEF4001BD	2401	HEPC3800L	1808	HEPS0031	2023	HFSG005	1104	HR-5A X2	1104	HR44	2007
HD6865	1104	HEF4001BP	2401	HEPC3800P	1808	HEPS0032	2023	HG1090	1123	HR-5B	1104	HR-45	2007
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HD7400P	1801	HEF4011BD	2411	HEPC6052P	007	HEPS0034	2009	HG5004	1123	HR-6	2007	HR46	2007
HD7401P	1801	HEF4011BP	2411	HEPC6059P	1758	HEPS0035	2009	HG5006	1123	HR6	2007	HR-47	2016
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HD14011BP	2411	HEF4017BD	2417	HEPC6118P	1773	HEPS3060	2020	HG5079	1123	HR-8	2007	HR51	2007
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HD200301	1104	HEF4017P	2417	HEPC6130P	1723	HEPS5021	2055	HG5088	1123	HR-8A	2007	HR53	2007
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HR87	2009	HT30451E	2010	HT30451H	2010	HX5001	2010	IDA23399	565	IR25JA	1123
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HR4037	2007	HT10234A	2007	HT30974100	2009	HX-50063	2009	IE4608	2050	IR20	1104
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MS102	2007	HT104941C	2023	HT304601B	2009	HX-60176	2023	INJ61677	1102	IR106C2	1020
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MS1008	1104	HT105611C	2023	HT304941A-0	2030	HZ-12B	563	IP20-0006	2009	IR106F1	1067
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MS1020	1184	HT105621B	2023	HT305351C	2010	HZ15H	564	IP20-0016	1123	IR106G1	1067
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MS 1229	2009	HT105642B	2023	HT305371E	2009	I538	1104	IP20-0023	1102	IR106Y1	1067
MS2047	564	HT106731B	2023	HT306441	2009	I964-6	1102	IP20-0024	1104	IR106Y1-C	1067
MS2051	564	HT106731B	2023	HT306441A-0	2030	I6181	2030	IP20-0025	1104	IR106Y2	1067
MS2062	561	HT107211T	2023	HT306441A	2009	I9623	2010	IP20-0026	1114	IR413	2055
MS2091	562	HT200540	2007	HT306441A-0	2030	I9631	2030	IP20-0028	2041	IR914	1102
MS2120	563	HT200540A	2007	HT306441B-0	2030	I9680	2023	IP20-0029	2009	IR1603	1020
MS2150	564	HT200541	2007	HT306441B	2009	I12032	2007	IP20-0032	2009	IRCS	1067
MS3103	1104	HT200541A	2007	HT306441B-0	2030	I1030	2023	IP20-0034	2016	IRCS20	1067
MS3104	1184	HT200541B-0	2007	HT306441B-0	2030	I5436	1102	IP20-0036	2020	IRF511	2072
MS3108	1114	HT200541B	2007	HT306441B-0	2030	I47608-2	2009	IP20-0037	2009	IRF513	2072
MS3110	114	HT200541C-0	2007	HT306441C-0	2009	I473679-1	2030	IP20-0038	2058	IRF523	2072
MS3751	563	HT200541C	2007	HT306441C	2009	I473680-1	1067	IP20-0039	2009	IRF504	2007
MS3762	561	HT200541C-0	2007	HT306441C-0	2030	IC15	1759	IP20-0040	2058	IRF505	2007
MS3781	562	HT200541B	2007	HT306442A	2016	IC 15(PHILCO)	1759	IP20-0041	2059	IRF506	2007
MS37120	563	HT200541C-0	2007	HT306442B	2016	IC-17(PHILCO)	1759	IP20-0046	2023	IRF707	2007
MS37150	564	HT200541C	2007	HT306451	2010	IC-18(PHILCO)	1757	IP20-0054	1104	IRF711	2007
MS 40014	2009	HT200751B	2007	HT306451A	2010	IC-20	1740	IP20-0060	1123	IRF712	2007
MS 40017	2010	HT200770B	2007	HT306451B	2010	IC-20(PHILCO)	1740	IP20-0061	1103	IRF717	2007
MS 40019	2009	HT200771	2007	HT306451H	2009	IC-23	706	IP20-0086	565	IRF718	2007
MS 40020	2009	HT200771A	2007	HT306481C	2010	IC23	705	IP20-0110	2058	IRF720	2023
MS 40021	2016	HT200771B	2007	HT306962A-0	2010	IC 23 (PHILCO)	706	IP20-0120	1104	IRF722	2009
MS 40022	2016	HT200771C	2007	HT306962A-0	2010	IC23(PHILCO)	706	IP20-0122	2009	IRF724	2009
MS 40023	2016	HT201721A	2007	HT307321B-0	2009	IC 24(PHILCO)	1759	IP20-0145	1102	IRF726	2041
MS 40024	2016	HT201721B	2007	HT307321B	2009	IC 53(ELCOM)	1740	IP20-0159	2023	IRF731	2023
MS 40025	2016	HT201725A	2007	HT307321B-0	2009	IC53(ELCOM)	1740	IP20-0161	705	IRF751	2016
MS 40026	2009	HT201725B	2007	HT307322A	2009	IC-74(ELCOM)	1801	IP20-0164	1114	IRF751	2016
MS 40030	2009	HT201761A	2007	HT307331B	2009	IC-80(ELCOM)	1801	IP20-0165	2059	IRF752	2023
MS 40031	2009	HT201771L	2007	HT307331C	2009	IC-84(ELCOM)	1802	IP20-0167	1104	IRF753	2030
MS 40035	2023	HT2030701	2007	HT307331C	2009	IC-98(ELCOM)	1808	IP20-0179	2009	IRF763	2030
MS 40037	2009	HT203701A	2007	HT307331C-0	2009	IC101(COLUMBIA)	2060	IP20-0184	1102	IRF777	2020
MS 40039	2009	HT203701B	2007	HT307331C	2009	IC-101(ELCOM)	1805	IP20-0191	2059	IRF789	2041
MS 40040	2009	HT203701C	2007	HT307341A	2010	IC-121(ELCOM)	1822	IP20-0192	2023	IRF789	2041
MS 40044	2010	HT203711A-0	2010	HT203711A-0	2010	IC-302(ELCOM)	1757	IP20-0205	1801	IRF789	2041
MS 40045	2010	HT203711A-0	2010	HT203711C-0	2009	IC202(ELCOM)	1757	IP20-0213	2023	IRF789	2041
MS 40046	2009	HT203711A-0	2009	HT2037341C-0	2030	IC-294(ELCOM)	1750	IP20-0216	1103	IRF789	2041
MS 40047	2010	HT203711A-0	2009	HT2037342C	2030	IC294(ELCOM)	1750	IP20-0231	2059	IRF789	2041
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MS 40050	2010	HT203711B-0	2009	HT2037770B	2010	IC-296(ELCOM)	038	IP20-0283	1123	IRF789	2041
MS 40054	2010	HT203711B	2010	HT2037721C	2010	IC300(ELCOM)	1759	IP20-0310	1801	IRF789	2041
MS 40055	2010	HT203711B-0	2009	HT2037721C	2010	IC-507	1759	IP20-0323	2020	IRF789	2041
MS 40057	2010	HT203711B-0	2009	HT2037721C	2010	IC87	1759	IP20-0323	1801	IRF789	2041
MS 40078	2023	HT203711C	2010	HT2037721C	2010	IC507(HP)	1759	IP20-0323	1801	IRF789	2041
MS C-1	1114	HT203720A	2010	HT2037721C	2010	IC-820(ELCOM)	1723	IP20-0323	1801	IRF789	2041
MS C-1	1114	HT203721D	2009	HT2037721C	2010	IC-824(ELCOM)	706	IP20-0323	1801	IRF789	2041
MS D-1A	1104	HT2030330	2009	HT2037721C	2010	IC-531(ELCOM)	1740	IP20-0323	1801	IRF789	2041
MS D-17	1184	HT2030330A	2009	HT2037721C	2010	IC-546(ELCOM)	1759	IP20-0323	1801	IRF789	2041
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MSFD 1Z	2010	HT2030330	2009	HT2037721C	2010	IC-605(ELCOM)	706	IP20-0323	1801	IRF789	2041
MSFD 1Z	2010	HT2030330	2009	HT2037721C	2010	IC4001BP	2401	IP20-0323	1801	IRF789	2041
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MSFD 1Z	2010	HT2030330	2009	HT2037721C	2010	IC7430A1	2058	IP20-0323			

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
IT10D4K	1104	J587	2061	J41642	2041	JD-SD1D	1104	K4K5	1114	KB265A	1102	KGE41959	1123
IT22	1123	J500	2061	J41645	2023	JDSDD1D	1104	K4M5	1114	KB265A(RECT)	1104	KGE46109	1102
IT22A	1123	J589	2061	J101183	1104	JD-SD1Z	1104	K5A5	1104	KB8339	2009	KGE46146	2016
IT22B	1123	J594	2061	J241054	2009	JE8550B	2023	K5B5	1104	KB8416	2039	KGE46330	2009
IT23	1123	J595	2061	J241099	2009	JE8550C	2023	K5C5	1104	KBF-02	1114	KGE46465	1102
IT23A	1123	J596	2061	J241100	1104	JE9011E	2009	K5D5	1104	KBP005	1171	KGS1000	2007
IT23G	1123	J623	2016	J241102	1104	JE9011F	2009	K5E5	1104	KBP04	1173	KIA7205AP	705
IT235	1123	J624	2016	J241142	1104	JE9011G	2009	K5F5	1104	KCO-8CP	1104	KIA7205P	705
IT40	1102	J625	2061	J241164	2007	JE9011H	2009	K5G5	1104	KCO-8CP11/1+12/1	1104	KLH704	2009
IT120	2009	J626	2016	J241177	2010	JE9014B	2009	K5H5	1114	KCO-8CP11/1&12/1	1104	KLH1422	2009
IT121	2009	J627	2016	J241179	561	JE9014C	2061	K5K5	1114	KCO6E11/8	1104	KLH4667	1104
IT122	2016	J628	2061	J241182	1102	JE9016F	2010	K5M5	1114	KCO8C11/8	1104	KLH4577	1104
IT124	2060	J629	2016	J241188	2010	JE9016G	2010	K6	1123	KCO8C11-10	1104	KLH4745	2020
IT205A	2007	J630	2016	J241189	2010	JE9018G	2010	K14-0066-4	2007	KCO8C21-5	1104	KLH4746	2023
IT243	565	J631	2061	J241190	2007	JE9018H	2007	K14-0066-6	2010	KCO8C22/19	1104	KLH4763	1102
IT261	1123	J685	1123	J241209	1104	JE91128	2013	K14-0066-12	2009	KCO8C215	1104	KLH4792	2010
IT262	1123	J961B(G.E.)	2009	J241210	1104	JE9112C	2023	K14-0066-13	2030	KC-08C221	1104	KLH5807	2030
IT263	1123	J1000-7400	1801	J241211	1104	JL-40A	1104	K345747(1-GATE)	1114	KCO8C221	1104	KMA917E	2009
IT918	2016	J1000-7404	1802	J241213	1102	JL40A	1102	K47	2062	KCO8C1110	1104	KMA917F	2009
IT918A	2016	J1000-7447	1805	J241214	1104	JL41A	1104	K47M	2062	KCO8C2219	1171	KMA917G	2009
IT929	2016	J1000-7490	1808	J241222	1759	JL41AM	1104	K52	1123	KCO8CP111	1104	KMA918E	2010
IT930	2016	J1000-NE555	1723	J241225	2023	JLM-20	2009	K60	1123	KCO8CP121	1104	KMA918F	2010
IT2218	2009	J2441	1123	J241226	2023	JM-40	1102	K112D	1101	KCO-06911/8	1104	KOS25201-1	1123
IT2219	2009	J5062	2007	J241227	2055	JM40	1102	K115J511-2	1102	KCO911-8	1104	KOS25201-2	1123
IT2221	2009	J5063	2007	J241230	2009	JM401	1102	K118J966-1	1101	KCO6911	1104	KOS25642-10	2007
IT2222	2009	J5064	2007	J241232	1104	JN271	1104	K118J966-1(WT16X9)	2009	KCO.8	1104	KOS25671-20	2050
IT2483	2061	J9680	2023	J241234	1102	JP5062	2007	K118J966-2	1101	KCO.8C22/1	1171	KOS25671-21	2058
IT2604	2061	J9697	2023	J241235	1102	JP5063	2007	K118J966-3	1101	KCO.8CP	1104	KOS25671-23	2058
IT2605	2061	J20437	1104	J241241	2020	JP5064	2007	K118J966-3	1101	KCO.8CP11	1104	KPB04	1173
IT2904	2061	J20438	563	J241242	1102	JR05	2007	K118J966-3(WT16X8)	2007	KCO.8CP11/1	1104	KPG6682	2009
IT2905	2061	J24127	1104	J241245	1123	JR5	2007	K118J966-4	1101	KCO.8CP11/1+121Y	1104	KR-162	1103
IT2906	2061	J24458	2009	J241251	2009	JR10	2007	K118J966-4	1101	KR0417	1104	KR0417	2009
IT2907	2061	J24561	2010	J241252	2020	JR15	2007	K118J9663	1101	KCO.8CP11/1&121Y	1104	KR-Q0001	2007
ITC918A	2016	J24562	2010	J241253	2023	JR30	2007	K119J804-5	1102	KCO.8CP11/H12/1	1104	KR-Q0002	2007
IT737N	1103	J24563	2010	J241255	2030	JR30X	2007	K121J688-1	2010	KCO.8CP12/1	1104	KR-Q0004	2007
IT7102	1123	J24564	2009	J241256	2030	JR100	2007	K122D	1101	KC1.3C	1104	KR-Q0005	1123
IT7200	1103	J24565	2009	J241259	2023	JR200	2007	K200	1104	KC-1.3C3X11/1	1104	KR-Q1010	2007
IT7301	1123	J24570	1104	J241260	1104	JSP7001	2058	K417-68	2007	KC1.3C3X11/1	1104	KR-Q1011	2007
IT7350	1104	J24596	2010	J241271	1104	JSP7001B	2009	K882	1123	KC1.3C22/1	1104	KR-Q1012	2007
IT7402	1104	J24620	2007	J310159	2007	JSP7005	2010	K-1616	1101	KC1.3G	1104	KR-Q1013	2009
IT7413	1102	J24621	2007	J310224	2007	JSP7006	2010	K1616	1101	KC1.3G12-1X2	1104	KS-05	1104
IT718	1123	J24622	2007	J310249	2009	JT-1601-40	2009	K-1617	1101	KC1.3G22-1A	1104	KS05	1104
IT723(D.I.P.)	1740	J24623	2007	J310250	2009	JT-1601-41	1124	K1617	1101	KC1.3G22-12	1104	KS-05X	1104
IT723-5(D.I.P.)	1740	J24624	2009	J310251	2007	JT-E1014	1123	K2001	2010	KC2AF22-1B	1171	KS051A	565
IT7921	1102	J24625	2009	J310252	2007	JT-E1024D	1104	K2070	2010	KC2AF221B	1171	KS062A	561
IT7992	1104	J24626	2007	J320020	1104	JT-E1031	1123	K2071	2010	KC2BF22/1B	1104	KS34A	565
IT71330	1757	J24630	1104	J320041	1123	JT-E1064	1104	K2072	2016	KC2D22/1	1171	KS34AF	565
IT73065	1759	J24631	561	JA1050	1102	K01205A	1102	K2073	2016	KC2D221	1104	KS34B	565
IT7215	1102	J24632	562	JA1050G	2023	K071961-001	2030	K2109	2010	KC2D2	1104	KS34BF	565
IT7400N	1801	J24635	2010	JA1050GL	2023	K071964-001	2041	K2110	2010	KC2DP11/1	1104	KS35A	565
IT7401N	1801	J24636	2010	JA1200	2009	K1A5	1104	K2111	2010	KC2DP11/1412/1	1104	KS35AF	565
IT7404N	1802	J24637	2010	JA1350	2009	K1B5	1104	K2112	2010	KC2DP12-1	1104	KS37A	561
IT7408N	1822	J24639	2007	JA1350A	2009	K1C5	1104	K2113	2010	KC2DP12/1N	1104	KS37AF	561
IT7447AN	1805	J24640	2023	JA1350B	2016	K1D5	1104	K2114	2010	KC2DP12-2	1104	KS41A	582
IT7490N	1808	J24641	2009	JA1350W	2016	K1E5	1104	K2115	2016	KC2DP22-1	1104	KS41AF	562
IX8055-379005N	1103	J24645	1104	JA-1555	1104	K1F5	1104	K2116	2010	KC2DP22/1B	1171	KS44A	563
J-05	1104	J24647	1104	JA-H	2009	K1G5	1104	K2117	2010	KC2DP121N	1104	KS44AF	563
J-1	1104	J24658	2009	JA-KCDP	1114	K1H5	1104	K2118	2010	KC2DP122	1104	KS44B	563
J-2	1104	J24701	2010	JA-L	2009	K1K5	1114	K2119	2010	KC2DP221	1104	KS44BF	563
J2-4570	1104	J24752	2009	JAM702C	1104	K1M5	1114	K2120	2010	KC2DP221B	1104	KS46	564
J-4	1104	J24753	2009	JB-0030	1104	K1.3G22/1A	1173	K2121	2010	KC2DP221C	1171	KS46AF	564
JA-1090	1801	J24755	1102	JB0030	1144	K1.3G22-1A	1171	K2122	2010	KC2G	1102	KS46BF	564
JA-1004	1802	J24756	1104	JB0036	1171	K1.3G22-2A	1104	K2123	2010	KC2G11/1	1104	KS120A	563
JA-1047	1805	J24812	2016	JB16C4	1104	K2A5	1104	K2124	2010	KC2G11/1+12/1	1104	KS120B	563
JA-1090	1008	J24813	2010	JB-BB1A	1104	K2B5	1104	K2125	2010	KC2G11/H12/1	1104	KS150A	564
JA-1203	706	J24814	2010	JC-00012	1104	K2C5	1104	K2126	2010	KC2G12/1	1104	KS150B	564
JA-1215	007	J24817	2009	JC-00014	1104	K2CDP221B	1171	K2127	2010	KC13C221	1104	KS2047B	565
JA-1555	1723	J24833	2007	JC-00025	1104	K2D5	1104	K2501	2010	KC1322/1	1104	KS2051A	565
JA-1600	2009	J24834	2007	JC-00028	1104	K2DP12	1104	K2502	2010	KCDP12-1	1114	KS2051B	565
JA-1601	1114	J24838	1123	JC-00032	1104	K2E5	1104	K2503	2010	KCO6E11/8	1144	KS2062A	561
JA-1602	1144	J24842	2009	JC00032	1144	K2F5	1104	K2509	2010	KCO8C11/8	1144	KS2062B	561
JA-1610	1103	J24843	2009	JC-00033	1104	K2G	1104	K2601C	1104	KCO8C21-5	1144	KS2091A	562
JA-1615	565	J24844	2058	JC-00035	1104	K2G5	1104	K2602C	2010	KCO8C22-19	1144	KS2091B	562
JA-1620	563	J24845	2009	JC-00037	1104	K2H5	1114	K2603C	2010	KCO-8CP	1104	KS2120A	563
JA-1622	562	J24846	2009	JC-00044	1104	K2K5	1114	K2604	2010	KCO-8CP11/1-12/1	1104	KS2120B	563
JA-1625	2007	J24852	2010	JC-00045	1104	K2M5	1114	K2604C	2010	KCO-8CP11/1+12/1	1104	KS2150A	564
JA-1626	2059	J24855	2009	JC-00047	1104	K3	1123	K2615	2010	KCO911/8	1144	KS2150B	564
JA-1628	2009	J24863	2010	JC-00049	1104	K3AST47	1124	K2616	2010	KCO911/8	1144	KS-1993B	2041
JA-1630	2009	J24869	2007	JC00049	1104	K3B5	1104	K2857C	2016	KCO.8CP11	1104	KS-20033L2	2043
JA-1632	2023	J24870	2007	JC00050	1104	K3C5	1104	K2857P	2016	KCO.8CP11/1+12/1	1104	KS20180-1L	2030
JA-1634	2060	J24871	1104	JC-00051	1104	K3D5	1104	K3683C	2016	KD27	1123	KS20967-1L	1801
JA-1636	2059	J24874	2009	JC-00055	1104	K3E	1124	K3683P	2016	KD300A	1102	KS20967-12	1002
JA-1640	2041	J24875	2016	JC-00059	1114	K3F5	1104	K3800C	2016	KD2101	2007	KS-21177	007
JA-1645	2023	J24877	1104	JC-10D1	1104	K3G5	1104	K3800P	1114	K4002	2010	KS21202-L1	1022
JA-1649	2030	J24878	2009	JC501P	2009	K3H5	1114	K4002	2010	KD2102	2009	KSA495Y	2023
JA-1650	2023	J24903	2010	JC-DS16E	1104	K3K5	1114	K5001	2010	KD2103	1104	KSA542-O	2023
JA-1651	2061	J24904	2010	J									

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KSD1051	2041	LID929	2016	LM1153	2023	LZZ1-12	563	M71A	1104	M7208	1114	MA4553	2007
KSD1052	2041	LID930	2016	LM-1155	2009	LZZ1-15	564	M71B	1104	M720C	1114	MA4553BLU	2007
KSD1053	2041	LJ-152	2023	LM-1158	1104	M-0027	1104	M71C	1104	M730	1114	MA4553BRN	2007
KSD1055	2041	LJ152	2023	LM-1159	1102	M0027	1104	M72	1114	M730A	1114	MA4553GRN	2007
KSD1056	2041	LJ152(0)	2023	LM1159	1102	M012	2010	M72A	1114	M730B	1114	MA4553ORN	2007
KSD1057	2041	LJ152-0	2023	LM-1160	1104	M024	2010	M72B	1114	M730C	1114	MA4553RED	2007
KSD1058	2041	LJ152B	2023	LM1160	1104	M094-585-46	2023	M72C	1114	M773	2009	MA4553YEL	2007
KSD2201	2041	LJ152G	2023	LM1403	2009	M,KIM,1-/U	1123	M72D	1114	M773RED	2009	MA4563	2007
KSD2202	2041	LL-2	1104	LM1404	2023	M1-301	1102	M73	1114	M774	2009	MA4564	2007
KSD4150	2061	LL2	1104	LM1415-6	2009	M1H	1104	M73A	1114	M774ORN	2009	MA4565	2007
KSKE12C500	1114	LLB-23	2009	LM1415-7	2009	M15-12795B	2041	M73B	1114	M775	2009	MA4567	2007
KSKE40C200	1104	LM207N	007	LM1458	038	M1X	2030	M73C	1114	M775BRN	2009	MA4573	2007
KSKE40C500	1104	LM224AD	1711	LM1458M	038	M2.5A	1114	M76	2007	M776	2009	MA4586	2007
KSKE125C200	1114	LM224AF	1711	LM1458N	030	M4	2061	M77	2007	M776GRN	2009	MA4589	2007
KSO47A	565	LM224AJ	1711	LM1501H	2030	M4B31-13	1104	M78	2007	M779	2009	MA4590	2023
KSO47B	565	LM224AN	1711	LM1540	2009	M4B41-13	1114	M78A	2007	M779BLU	2009	MA4594	2009
KSO51A	565	LM224D	1711	LM1540C	2016	M4HZ	1104	M78B	2007	M780	2009	MA4595	2007
KSO62A	561	LM224J	1711	LM1566F	2009	M4Z4.7	565	M78BLK	2007	M780WHT	2009	MA4596	2007
KSO91A	562	LM224N	1711	LM1614D	2009	M4Z4.7-20	565	M78C	2007	M783	2009	MA4597	2007
KT218	2009	LM317T	1778	LM1614M	2009	M4Z4.7A	565	M78D	2007	M783RED	2009	MA4597GRN	2007
KT218F	2061	LM320T-5.0	1773	LM1795	2023	M4Z5.1	565	M78E	2007	M784	2009	MA4597RED	2007
KTA562-TM	2023	LM320T5.0	1773	LM1818	2009	M4Z5.1-20	565	M78GRN	2007	M784ORN	2009	MA4603	2007
KTA1015-O	2023	LM324	1711	LM-1862	1104	M4Z5.1A	565	M78RED	2007	M785	2009	MA4604	2007
KTC388A	2009	LM324AD	1711	LM1862	1104	M4Z6.2	561	M78YEL	2007	M785YEL	2009	MA4605	2007
KTC1815-O	2009	LM324AF	1711	LM2152	2009	M4Z6.2-20	561	M82	1114	M786	2009	MA4605RED	2007
KTC1815Y	2009	LM324AJ	1711	LM-2589	2023	M4Z6.2A	561	M91	2010	M787	2009	MA4607	2007
KTC2120-O	2059	LM324AN	1711	LM2682	2030	M4Z9.1	562	M91A01	1104	M787BLU	2009	MA4621	2007
KTC2229-O	2061	LM324D	1711	LM2900N	1713	M4Z9.1-20	562	M91A02	1104	M791	2009	MA4624	2009
KTR0710C	2009	LM324J	1711	LM2901J	1712	M4Z91.1A	562	M91A03	1104	M818	2009	MA4627	2007
KTR0815C	2009	LM324N	1711	LM2901N	1712	M4Z12	563	M91A06	1114	M818WHT	2009	MA4630	2009
KTR0839C	2009	LM339D	1712	LM3065	1759	M4Z12-20	563	M91A	2009	M822	2009	MA4632	2007
KTR1687C	2009	LM339N	1712	LM3065N01	1759	M4Z12A	563	M91B	2009	M822A	2009	MA4653	562
KV-1	2007	LM340T-5	1770	LM3065N	1759	M4Z15	564	M918GRN	2009	M822A-BLU	2009	MA4689	2030
KV1	2007	LM340T-5.0	1770	LM3862M	1731	M4Z15-20	564	M91C	2009	M822B	2009	MA4697	2007
KV-2	2007	LM340T5.0	1770	LM3916	1709	M4Z15A	564	M91CM624	2009	M823	2009	MA4705	2009
KV2	2007	LM340T-5.0R	1770	LM7812	1771	M5	2061	M91D	2009	M823B	2009	MA4706	2009
KV-4	2007	LM340T-12	1771	LM80501/J	2009	M6	2061	M91E	2009	M823WHT	2009	MA4709	2010
KV4	2007	LM340T12	1771	LM9016F	2010	M6HZ	1104	M91F	2009	M827	2009	MA4709RED/RED	2010
KV-4D	2007	LM340T-12R	1771	LM9018G/F	2009	M7	2023	M91FM624	2009	M827BRN	2009	MA4714	2009
KV-14	2007	LM340T-15	1772	LMT540C	2016	M8HZ	1114	M95	1123	M828GRN	2009	MA4715	2041
KX-1	1102	LM340T15	1772	LN75497	2041	M9Z	562	M102	1104	M829A	2023	M-4721	2009
L3/2H	1104	LM340T-15R	1772	LN78533	2041	M12	1104	M108	2007	M829B	2023	MA4732	2009
L4	2016	LM340U5	1770	LP1H	1104	M12Z	563	M124J779-1	1104	M829C	2023	MA4733	2010
L5	2016	LM340U12	1771	LP2H	1104	M14	1104	M128-J422PT.1	1101	M829D	2023	MA4734	2009
L6	2016	LM340U15	1772	LP3H	1104	M15Z	564	M128-J753	1101	M829E	2023	MA4736	1104
L6/2H	1104	LM341-5	1770	LP4H	1104	M21C	1067	M128J422-1	1101	M829F	2023	MA4737	2009
L7	2016	LM341-12	1771	LPMA.7	565	M21C/Q	1067	M-128J509-1	2016	M833	2023	MA4739	2009
LB 2H	1104	LM341-15	1772	LPMA.7A	565	M21C/R	1067	M-128J510-1	2010	M847	2009	MA4745	2023
L32H	1104	LM341P-5.0	1770	LPM9.1	562	M21C5	1067	M-128J511-3	2016	M847BLK	2009	MA4746	2010
L62H	1104	LM341P5.0	1770	LPM9.1A	562	M21CQ	1067	M128J753	1101	M924	2009	MA4756	2016
L82H	1114	LM341P-12	1771	LPM12	563	M21CR	1067	M128J753-1	1101	M-1002-2	2009	MA4757	2010
L532-068-012	2030	LM341P-12	1771	LPM12A	563	M21CY	1067	M140-1	2010	M-1002-17-NC	2010	MA4765	2009
LB42	2010	LM341P-15	1772	LPM15	564	M22	1104	M1400-3	2009	M1400-1	2010	MA4768	2009
L1498M	038	LM341P15	1772	LPM15A	564	M23C	1067	M150	1104	M2497	1104	MA4789	2010
LA000K5	1080	LM380	706	LPZT12	563	M24	2009	M150-1	1102	M3016	1104	MA4815	2023
L5021	2007	LM380N	706	LPZT15	564	M24A	2009	M172A	1104	M3519	2009	MA4815D	2023
L5022	2007	LM383	703	LR47CH	565	M24B	2009	M-204B	1104	M4313	2007	MA4816	562
L5022A	2007	LM383T	703	LR51CH	565	M25	2009	M204B	1104	M4315	2007	MA4820	2010
L5025	2007	LM386	1731	LR56CH	565	M25A	2009	M300-1360A	2030	M4327	2007	MA4821	2009
L5025A	2007	LM386A	1731	LR62CH	561	M25A2	2009	M351	2007	M4363	2007	MA4825	2010
LS108	2007	LM386LM	1731	LR91CH	562	M25B	2009	M380	2006	M4363BLU	2007	MA4826	2010
LS121	2007	LM386N	1731	LR120CH	563	M25B2	2009	M401	2016	M4363GRN	2007	MA4834	2009
LS122	2007	LM386N-3	1731	LR150CH	564	M26	1102	M-433	2060	M4363ORN	2007	MA4837	2010
LS181	2007	LM387	1737	LRQ849	2009	M-31	1104	M433	2060	M4363WHT	2007	MA4840	2009
L-612099	1822	LM387N	1737	LRR-50	1104	M34A	1123	M446	2023	M4364	2007	MA4840A	2010
L2091241-2	2007	LM555	1723	LRR50	1104	M42	1104	M447	2009	M4365	2007	MA4840E	2007
L2091241-3	2007	LM555C	1723	LRR-100	1104	M51	1123	M484	2009	M4366	2007	MA4841	2009
LS32000162	2030	LM555CN#1	1723	LRR100	1104	M54	2009	M500	1104	M4367	2007	MA4842	2009
LA300	1104	LM555CN#2	1723	LRR-200	1104	M54A	2009	M500A	1104	M4368	2007	MA4842A	2009
LA600	1104	LM565CN	1720	LRR200	1104	M54B	2009	M500B	1104	M4388	2007	MA4842C	2009
LA800	1104	LM723C	1740	LRR-300	1104	M54BLK	2009	M500C	1104	M4389	2007	MA4844	2009
LA1363	1759	LM723CD	1740	LRR300	1104	M54BLU	2059	M530	2030	M4398	2007	MA4845	2010
LA1365	1759	LM723CND	1740	LRR-400	1104	M54BRN	2009	M546	2016	M4439B	2007	MA4852	2009
LA1365N	1759	LM741CN	007	LRR400	1104	M54C	2059	M604	1171	M4442	2023	MA4854	2009
LAA300	1104	LM1099E	2009	LRR-500	1104	M54D	2059	M604HT	1104	M4454	2023	MA4855	2010
LAA600	1104	LM1099F	2009	LRR500	1104	M54E	2009	M612	2016	M4456	2007	MA4857	2010
LAA800	1104	LM1099G	2009	LS-0031-AR-218	2016	M54GRN	2009	M613	2016	M4457	2007	MA4860	2007
LB3000	1001	LM1110A	2010	LS-0066	2020	M54ORN	2009	M614	2016	M4462	2007	MA4882	2041
LB3006	1802	LM1110B	2010	LS-0067	2027	M54RED	2009	M644	2023	M4464	2009	MA4898	2009
LB3150	1808	LM1117	2016	LS-0079-01	2023	M54WHT	2009	M670	1104	M4465	2009	MA4904	2010
LC0.09M1115	1104	LM1117C	2016	LS-0079-02	2023	M54YEL	2009	M670A	1104	M4466	2007	MA4906	2009
LC.09M	1104	LM1117D	2009	LS-0085-01	2009	M60	1123	M670B	1104	M4468	2007	MA4918	2030
LD34R	1103	LM1120B	2010	LS-0095-AR-213	2016	M62	1104	M670C	1104	M4469	2007	MA4919	2030
LD128	1124	LM1120C	2010	LS-0095-AR-213	2016	M65A	2023	M671	2009	M4470	2007	MA4926	2009
LD128(RCA)	1124	LM1123H	2010	LS3705	2009	M65B	2023	M680	1104	M4471	2007	MA4933	2009
LDA400	2009	LM-1129	2009	LSC1008P	1759	M65C	2023	M680A	1104	M4472	2007	MA4935	2009
LDA400MP	2009	LM-1130	2009	LT1016	2010	M65D	2023	M680B	1104	M4474	2007	MA4937	2009
LDA401	2009	LM-1132	2009	LT1016(E)	2009	M65E	2023	M680C	1104	M4475	2007	MA4937(3RD-IF)	2059
LDA401MP	2009	LM-1133	2009	LT1016D	2010	M65F	2023	M690	1104	M4476	2007	MA4941	2009
LDA402	2009	LM1133	2059	LT1016E	2010	M67	1104	M690A	110				

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M7015	2009	M9826	2020	MA884	2007	MC035	1104	MCS3200	1801	ME216	2009	MHT5104	2020
M7033	2009	M9914	2016	MA885	2007	MC040	1104	MCC556A	1728	ME217	2009	MHT742	2020
M7108	2009	M9619	2023	MA886	2007	MC040A	1104	MCC556B	1722	ME409 02B	162	MHT741	2020
M7108 A5N	2009	M961	2020	MA887	2007	MC070	1114	MCR101	1067	ME501	1021	MHT742	2020
M7109	2009	M9636	2041	MA888	2007	MC070A	1114	MCR102	1067	ME502	2023	MHT741A	2020
M7109 A5P	2009	M9676	2020	MA889	2007	MC080	1114	MCR103	1067	ME900	2011	MHT741	2020
M7127	2023	M9676 NPN	2020	MA890	2007	MC080A	1114	MCR104	1067	ME900A	2009	MHT760	2041
M7127 P25	2023	M31001	2009	MA891	2007	MC090	1114	MCR106-1	1067	ME901	2009	MHT7602	2041
M7171	2009	MA1032A	1114	MA892	2007	MC090A	1114	MCR106-2	1067	ME901A	2009	MHT7603	2041
M7543-1	2041	MA1223-2	1104	MA893	2007	MC2	1102	MCR106-3	1067	ME1001	2009	MHT760	2041
M8014 (TRANSISTOR)		MS1841P	1723	MA894	2007	MC19	1104	MCR106-4	1067	ME1002	2009	MHT760	2041
	2007	MS3200	1801	MA895	2007	MC78M12	1771	MCR107-1	1067	ME1075	2030	MHT760	2041
M8862A	2007	MS3208P	1801	MA896	2007	MC100	1114	MCR107-2	1067	ME1100	2041	MHT760	2041
M8962B	2007	MS3201	1801	MA897	2007	MC00A	1114	MCR107-3	1067	ME1138	2020	MHT760	2041
M8952C	2007	MS3201P	1801	MA898	2007	MC101	2007	MCR107-4	1067	ME2001	2009	MHT760	2041
M8073B	2007	MS3204	1802	MA899	2007	MC103	2007	MCR115	1067	ME2002	2009	MHT760	2041
M8073C	2007	MS3204P	1802	MA-900	1123	MC1330P	1157	MCR120	1067	ME3002	2010	MI-15R	1104
M8105	2009	MS3247	1805	MA900	2007	MC170	1104	MCR406-1	1067	ME3011	2010	MI-15C	1104
M8116	2007	MS3247P	1805	MA901	2007	MC301	1102	MCR406-2	1067	ME4001	2009	MI-15S	1104
M-1124	1124	MS3290	1808	MA902	2007	MC308	1123	MCR405-3	1067	ME4002	2009	MI-15C	1104
M-124	2007	MS3290P	1808	MA903	2007	MC456	1104	MCR406-4	1067	ME4083	2009	MI-15E	1114
M8231	2009	M75516 2	2007	MA904	2007	MC1330	1757	MCR407-1	1067	ME4083C	2009	MI-15A	1114
M8222	1104	M75516 2P	2007	MA909	2007	MC1330P	1757	MCR407-2	1067	ME4101	2009	MI-15C	1114
M8399	1104	M75516-2R	2007	MA910	2007	MC1350	1759	MCR407-3	1067	ME4102	2009	MI-15A	1114
M8402	1124	M-75517-1	2007	MA1051	565	MC1350P	1758	MCR407-4	1067	ME4103	2009	MI-15B	1114
M8482C	1124	M75517-1	2007	MA1062	561	MC1350PQ	1759	MCS2135	2061	ME4104	2009	MI1346	2010
M8482F	1124	M75517-2	2007	MA1120	561	MC1358	1759	MCS2137	2061	ME5001	2010	MI9533	2009
M8482FA-4	1124	M-75516-1	2030	MA1125	1759	MC1350P	1759	MCV	1104	ME6001	2009	MI9538	2009
M8489	1103	M-75536-2	2030	MA1128	1759	MC1358PQ	1759	MD04	1104	ME6002	2009	MI1373 [D.I.P.]	1140
M8489-A	1123	M75543-1	2020	MA1150	564	MC1455P	1723	MD-34	1123	ME6083	2009	MI1391	1801
M-8489A	1102	M75545-1	2015	MA1150A	564	MC1455P1	1723	MD34	1123	ME6101	2020	MI1391	1801
M8499A	1105	M75547-1	2010	MA1318	2007	MC1450	039	MD34A	1123	ME6900	2038	MI1391	1801
M8499	2007	M75547-2	2010	MA1700	2007	MC1458CP1	039	MD35	1123	ME9002	2038	MI1391	1801
M8504A	2007	M75549-2	2041	MA1702 (DIODE)	1102	MC1458P	039	MD38	1123	ME9003	2038	MI1391	1801
M8640E	2007	M-75557-1	2009	MA1703	2007	MC1458P1	039	MD46	1123	ME8201	2010	MI1391	1801
M8640E (C-M)	1102	M-75557-2	2009	MA1703 (DIODE)	1102	MC1458V	038	MD46	1123	ME8201	2010	MI1391	1801
M8640E (DIO)	1102	M-75557-3	2009	MA1704	2007	MC1520	1104	MD56	1123	ME9001	2009	MI1391	1801
M8640E (XSTR)	2007	M-75557-4	2009	MA1704 (DIODE)	1102	MC1521	1104	MD50	1123	ME9002	2010	MI1367-1 47	2023
M-8641	2009	M-75557-5	2009	MA1705	2007	MC1522	1104	MD134	1104	ME9003	2010	MI1105	2009
M9010	2010	M-75557-6	2009	MA1706	2007	MC1523	1104	MD135	1104	ME9021	2010	MI139A	2009
M9032	2010	M75561-7	2007	MA1707	2007	MC1524	1104	MD136	1104	ME9922	2010	MI480	2041
M9095	2009	M75565-1	2009	MA1708	2007	MC1527	1114	MD137	1104	MEF 25	2009	MI481	2041
M9138	2007	MI105064	1101	MA2065	1759	MC1528	1114	MD138	1104	MEF4001	2401	MI480	2041
M9148	2007	M755162-P	2007	MA4101	2009	MC1529	1114	MD139	1104	MEM4011	2411	MI491	2041
M9159	2009	M755162-R	2007	MA4102	2009	MC1723CL	1740	MD234	1104	MEM4013	2413	MI 3251	2030
M9170	2009	MA0404	2023	MA4103	2009	MC1741CP1	007	MD235	1104	MEM4049	2449	MI2000	2041
M9184	2003	MA0414	2023	MA4104	2009	MC1741NCP1	007	MD236	1104	MER-65-L 11324	1103	MI2001	2041
M9197	2016	MA1	2007	MA4404	2007	MC2326	1102	MD201	2007	MEZ1-5.1	365	MI2802	2041
M9198	2007	MA2	1104	MA4404A	2007	MC2526	1123	MD501	2007	MEZ1-6.2	561	MI2901	2041
M9206	1104	MA3	1123	MA6001	2009	MC3301P	1713	MD501B	2007	MEZ1-9.1	562	MI2955	2043
M9209	2020	MA4	1123	MA6002	2009	MC3302P	1712	MD604A	1123	MRZ1-12G	563	MI3480	2055
M9221	2030	MA 10	2060	MA6903	2009	MC3302P	1712	MD753	561	MEZ1-15	564	MI3602	2041
M9224	2009	MA 10	2060	MA6101	2030	MC5321	1102	MD753A	561	MEZ1215	563	MI1409	2035
M9228	2030	MA23/B	1123	MA6102	2009	MC6000	561	MD757	562	MCZ12T10	563	MI13002	2035
M9235	1104	MA47	1123	MA8001	2030	MC6000A	561	MD757A	562	ML71515	562	MI13003	2035
M9244	2041	MA50	1104	MA8002	2030	MC6016	563	MD759	563	MEZ-15T5A	564	MI13007	2043
M9248	2009	MA51A	1123	MA9426	2009	MC6016A	563	MD759A	563	MEZ15T10C	564	MIJ29	2020
M9249	2007	MA55	1123	MAC77-1	1001	MC6018	564	MD992	2023	MEZ15T10C	564	MIJ29A	2020
M9250	2007	MA56	1102	MAC77-2	1001	MC6018A	564	MD982F	2023	MF1161	2010	MIJ29B	2020
M9259	2041	MA90	1123	MAC77-3	1001	MC6108	561	MDA100	1151	MF1162	2010	MIJ29C	2020
M9266	2016	MA 60	2007	MAC77-4	1001	MC6108A	561	MDA101	1171	MF1163	2010	MIJ29	2020
M9269	2016	MA 01	1104	MAC77-5	1000	MC6116	563	MDA104	1173	MF1164	2010	MIJ51A	2020
M9278	2041	MA 02	1104	MAC77-6	1030	MC6116A	563	MDA920 1	1171	MF338A	2023	MIJ51B	2020
M9282	2009	MA 01	1104	MAQ7786	2009	MC6118	564	MDA920 2	1104	MC9623	2009	MIJ51C	2020
M9293	2016	MA 12	2007	MA520	2007	MC6118A	564	MDA920 5	1173	MG272	1100	MIJ51	2020
M9302	2041	MA 13	2007	MA521	2007	MC7400	1001	MDA920 6	1173	MGLA47	565	MIJ51A	2020
M9312	1104	MA 14	2007	MA522	2007	MC7400F	1001	MDA942 2	1171	MGLA47B	565	MIJ51B	2020
M9314	1104	MA 15	2007	MA523	2007	MC7400L	1001	MDA942 4	1173	MGLA51	565	MIJ51C	2020
M9317	1104	MA 16	2007	MB-01	1152	MC7400N	1001	MDA942-5	1173	MGLA51A	565	MIJ51	2020
M9319	1104	MA 17	2007	MB01	1104	MC7400P	1001	MDA942A 1	1171	MGLA51B	565	MIJ51A	2020
M9321	2041	MA 18	1103	MB 04	1173	MC7401F	1001	MDA142A1	1171	MGLA62	561	MIJ51B	2020
M9329	2016	MA 19DD	1102	MB-4-01	1171	MC7401L	1001	MDA542A 2	1171	MGLA62A	561	MIJ51C	2020
M9334	2023	MA 50LF	1103	MB-4-04	1173	MC7401P	1001	MDA942A 4	1173	MGLA62B	561	MIJ51	2020
M9338	2016	MA190TA	1103	MB244	1104	MC7404L	1002	MDA942A 5	1173	MGLA91	562	MIJ51	2020
M9348	2027	MA181	1103	MB257	1104	MC7404P	1002	MDA942A5	1173	MGLA91A	562	MIJ51	2020
M9380	2030	MA161C	1103	MB258	1104	MC7408L	1022	MDP173	1102	MGLA91B	562	MIJ51	2020
M9384	2016	MA162	1103	MB269	1104	MC7408P	1022	MD531	2007	MM67	1104	MIJ201	2020
M9389	2059	MA162LF	1103	MB270	1104	MC7447L	1104	MD532	2007	MM68	1104	MIJ205K	2020
M9409	2016	MA165	1103	MB400	1001	MC7447P	1805	MD533	2007	MH70	1104	MIJ520K	2020
M9412	2023	MA203	1104	MB416	1801	MC7490F	1808	MD533A	2007	MH71	1104	MIJ521K	2020
M9416	2016	MA206	2007	MB418	1802	MC7490L	1808	MD533C	2007	MH72	1114	MIJ2021	2020
M9447	2016	MA211	1104	MB513AR	1102	MC7490P	1808	MD533D	2007	MH75	1114	MIJ2380	2020
M9450	2016	MA215	1104	MB601	1801	MC7912CT	1771	MD534	2007	MI500	1104	MIJ2391	2020
M9467	2023	MA238	2007	MB84011	2411	AC9427	2009	MD535	2007	MI570	1104	MIJ2392	2020
M9474	2016	MA240	2007	MB84011-U	2411	MC14001	2401	MD536	2007	MI480	1104	MIJ2393	2020
M9475	2009	MA242	1104	MB84011B	2411	MC14001CP	2401	MD537	2007	MH700	1104	MIJ2400	2020
M9481	2016	MA242C	1104	MB84011M	2411	MC14011	2411	MD538	2007	MH710	1104	MIJ2481	2020
M9482	2010	MA242RC	1114	MB84011V	2411	MC14011B	2411	MD539	2007	MH720	1114	MIJ2482	2020
M9486	2016	MA286	2007	MB84011V	2401	MC14011BCP	2411	MD540					

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MLM139L	1712	MN60	2007	MPS3638	2023	MPS6574-B	2030	MPS9625D	2058	MPSA20-BLU	2016	MRT1032B	1114
MLM224L	1711	MN60(DIODE)	1123	MPS-3638A	2023	MPS6574-BLUE	2030	MPS9625E	2058	MPSA20-GRN	2016	MRT1032BR	1114
MLM224P	1711	MN380	706	MPS3638A	2023	MPS6574-G	2030	MPS9625F	2058	MPSA20-RED	2016	MRT1033A	1114
MLM239AL	1712	MN380H	706	MPS3639	2023	MPS6574-S	2030	MPS9625G	2058	MPSA20-WHT	2016	MRT1033AR	1114
MLM239L	1712	MP-01	1104	MPS3640	2023	MPS6574-SIL	2030	MPS9625H	2058	MPSA20-YEL	2016	MRT1033B	1114
MLM324	1711	MP01	1104	MPS3642	2009	MPS6574-Y	2030	MPS9626	2009	MPSA42	2061	MRT1033BR	1114
MLM324L	1711	MP-04	1173	MPS3643	2009	MPS6574-YEL	2030	MPS9626G	2009	MPSA43	2061	MRT1034A	1114
MLM324P	1711	M-P3D	2007	MPS3644	2023	MPS6575	2009	MPS9626H	2009	MPSA-A55	2023	MRT1034AR	1114
MLM324P1	1711	MP100	1104	MPS3645	2023	MPS6575GREEN	2059	MPS9626I	2009	MPSA-A56	2023	MRT1034B	1114
MLM339AL	1712	MP225	1104	MPS3646	2009	MPS6576	2009	MPS9626J	2009	MPSA-A55	2023	MRT1034BR	1114
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MM0	1104	MP400	1104	MPS3694	2009	MPS6576-BLUE	2009	MPS9630H.1	2009	MPSA70	2023	MRT1035AR	1114
MM2	1104	MP500(RECT.)	1104	MPS-3702	2023	MPS6576-G	2009	MPS-9630I	2009	MPSA70-BLU	2061	MRT1035B	1114
MM3	1104	MP549	1143	MPS3702	2023	MPS6576-GREEN	2009	MPS9630J	2009	MPSA70-GRN	2061	MRT1035BR	1114
MM4	1104	MP651	1104	MPS3703	2023	MPS6576-S	2009	MPS9630K	2009	MPSA70-RED	2061	MRT1036A	1114
MM5	1104	MP1003-1	1104	MPS3704	2009	MPS6576-SIL	2009	MPS9630L	2009	MPSA70-WHT	2061	MRT1036AR	1114
MM6	1104	MP1003-2	1104	MPS-3705	2009	MPS6576-Y	2009	MPS9630M	2009	MPSA70-YEL	2023	MRT1036B	1114
MM7	1114	MP1003-4	1104	MPS3705	2009	MPS6576-YEL	2059	MPS9630N	2009	MPSA Y2	2061	MRT1036BR	1114
MM8	1114	MP1014-1	2007	MPS3706	2009	MPS6576GREEN	2059	MPS9630O	2009	MPSD01	2061	MRT1038A	1114
MM9	1114	MP1014-2	2009	MPS3706#	2009	MPS6576SIL	2009	MPS9631J	2009	MPSD02	2061	MRT1038AR	1114
MM10	1114	MP1014-4	2007	MPS3707	2009	MPS6577	2023	MPS9631K	2009	MPSD03	2061	MRT1038B	1114
MM306	2030	MP1014-5	2007	MPS3708	2009	MPS6580	2023	MPS9631S	2009	MPSD05	2009	MRT1038BR	1114
MM380	2007	MP1014-6	2007	MPS3709	2009	MPS6590	2009	MPS9631T	2009	MPSD06	2009	MRT1040A	1114
MM400A	2007	MPS513	1104	MPS3710	2009	MPS6591	2023	MPS9632	2009	MPSD55	2023	MRT1040AR	1114
MM486	2030	MP-5115	1104	MPS3711	2009	MPS7513	2058	MPS9632(I)	2009	MPSD56	2023	MRT1040B	1114
MM487	2030	MP8111	2020	MPS3721	2009	MPS8001	2009	MPS9632(K)	2009	MPSD56	2023	MRT1040BR	1114
MM488	2030	MP8112	2020	MPS3826	2009	MPS8097	2009	MPS9632H	2009	MPSH02	2058	MRT1337-1	1104
MM511	2030	MP9602	1104	MPS3827	2009	MPS8098	2009	MPS9632I	2009	MPS-H04	2061	MRT1337-2	1104
MM512	2030	MP4300158	1103	MPS3900	2009	MPS8099	2009	MPS9632J	2009	MPSH04	2061	MRT1337-3	1104
MM513	2030	MP4906063	2030	MPS3900A	2009	MPS8598	2023	MPS9632K	2009	MPSH05	2061	MRT1337-4	1104
MM709	2010	MP C1458C	038	MPS3901	2009	MPS8599	2023	MPS9632T	2009	MPSH07	2010	MRT1337-5	1104
MM869B	2009	MP C3500	1102	MPS3904	2016	MPS9185	2009	MPS9633	2016	MPSH08	2010	MRT2064	1104
MM999	2023	MP C14305	1770	MPS3906	2023	MPS9246.A.B	2009	MPS9633C	2016	MPSH09	2010	MRT2065	1104
MM1139	2007	MPF102	2035	MPS3992	2009	MPS9410A	2030	MPS9633D	2016	MPSH10	2058	MRT2069	1114
MM1151	2007	MPF106	2035	MPS4145	2009	MPS9410AJ	2030	MPS9633G	2016	MPSH11	2058	MRT2070	1104
MM1152	2007	MPF111	2062	MPS4354	2023	MPS9410AK	2030	MPS9634	2009	MPS-H17	2058	MRT2261	1104
MM1153	2007	MP L1000	2023	MPS4355	2023	MPS9410H	2030	MPS9634B	2016	MPSH17	2058	MRT2371	1104
MM1154	2007	MPM5006	2009	MPS4356	2023	MPS9417A-T	2009	MPS9634C	2009	MPSH19	2058	MRT2369	1114
MM1199	2007	MPS-9623G	2009	MPS5086	2023	MPS9418	2009	MPS9634D	2009	MPSH20	2009	MRT3932	2009
MM1367/25C684	2010	MPS393	2009	MPS-5172	2016	MPS9418T	2009	MPS9644	1102	MPSH24	2010	MRT3933	2030
MM1382	2010	MPS404	2023	MPS5172	2009	MPS9646	2009	MPS9646	1102	MPSH30	2058	MRT9600	1104
MM1387	2010	MPS404A	2023	MPS6076	2023	MPS9423F	2010	MPS9646G	1102	MPSH31	2058	MRT9601	1104
MM1619	2020	MPS551M	2061	MPS6134	2023	MPS9423G	2010	MPS9646H	1102	MPS-H32	2009	MRT9602	1104
MM1742	2007	MPS654	2010	MPS6351	2009	MPS9423H	2010	MPS9646I	1102	MPSH34	2016	MRT9604	2009
MM1748	2059	MPS-706	2009	MPS6413	2009	MPS9423I	2010	MPS9646J	1102	MPSH37	2058	MRT9803	1104
MM1755	2009	MPS706	2009	MPS6507	2010	MPS9426	2058	MPS9646M	1102	MPSH54	2023	MRTB-20C	1104
MM1756	2009	MPS706A	2009	MPS6511	2010	MPS9426A	2058	MPS9666	2023	MPSH55	2023	MRTD150	2016
MM1757	2009	MPS708	2010	MPS6511-S	2010	MPS9426A.B	2009	MPS9680	2023	MPSH81	2023	MRTD450	2016
MM1758	2009	MPS805	2010	MPS6512	2009	MPS9426B	2058	MPS9680H	2023	MPSH82	2009	MRT501	2016
MM1809	2030	MPS834	2009	MPS6513	2009	MPS9426B.C	2058	MPS9680H/E	2023	MPSK21	2009	MRT502	2016
MM1809A	2030	MPS835	2009	MPS6514	2009	MPS9426BC	2058	MPS9680H/I	2023	MPSK22	2009	MRT503	2030
MM1810A	2030	MPS918	2010	MPS6515	2009	MPS9426C	2058	MPS9680I	2023	MPSK70	2023	MRTF901	2044
MM1943	2030	MPS960T	2009	MPS6516	2023	MPS9427	2058	MPS9680J	2023	MPSK71	2023	MRTS648	2010
MM1945	2010	MPS1097	2007	MPS6517	2023	MPS9427B	2058	MPS9680K	2023	MPSK72	2023	MRTV-20C	1104
MM2005-2	2009	MPS1572	2023	MPS6518	2023	MPS9427B.C	2009	MPS9680T	2023	MPSL01	2061	MS-1	1102
MM2266	2030	MPS2221	2009	MPS6519	2023	MPS9427C	2058	MPS9681	2023	MPSL51	2061	MS1H	1104
MM2503	2007	MPS2221A	2009	MPS6520	2009	MPS9433	2009	MPS9681I	2023	MPX-25	1104	MS-2	1102
MM2550	2007	MPS2222A	2009	MPS6521	2009	MPS9433J	2016	MPS9681J	2023	MPX25	1104	MS2H	1104
MM2552	2007	MPS2369	2009	MPS6522	2023	MPS9433K	2009	MPS9681K	2023	MPX215	1104	MS3H	1104
MM2554	2007	MPS2711	2009	MPS6523	2023	MPS9433T	2009	MPS9681T	2023	MPX9410H	2030	MS-4	1103
MM2894	2007	MPS2712	2009	MPS6524	2023	MPS9434J	2009	MPS9682	2023	MPX9623	2009	MS4H	1104
MM3726	2023	MPS2713	2009	MPS6528	2010	MPS9434K	2009	MPS9682(I)	2023	MPX9623H	2009	MS5C	1104
MM3734	2030	MPS2714	2009	MPS6529	2010	MPS9444	1102	MPS9682I	2023	MPX9623H/I	2009	MS5H	1104
MM3735	2030	MPS2715	2009	MPS6530	2009	MPS9461A1	2061	MPS9682J	2023	MPX9623I	2009	MS11H	1104
MM3736	2030	MPS-2716	2009	MPS6531	2009	MPS9467A-T	2023	MPS9682K	2023	MPX9630I	2009	MS12H	1104
MM3737	2030	MPS2716	2009	MPS6532	2009	MPS9600	2009	MPS9682L	2023	MPX9681J	2023	MS13H	1104
MM3903	2009	MPS2823	2010	MPS6533	2023	MPS9600(G)	2009	MPS9696	2009	MQ1	2009	MS14H	1104
MM3904	2009	MPS2894	2010	MPS6533M	2023	MPS9600-S	2009	MPS9696F	2009	MQ2	2009	MS22B	2009
MM3905	2023	MPS2906	2009	MPS6534	2023	MPS9600-F	2009	MPS9696G	2059	MQ3/2	1104	MS35H	1104
MM3906	2023	MPS2907	2023	MPS6534M	2023	MPS9600G	2009	MPS9696H	2009	MQ6/2	1104	MS36H	1104
MM4011	2411	MPS2923	2009	MPS6535	2023	MPS9600G/H	2010	MPS9696I	2009	MQ8/2	1104	MS50	1104
MM4013	2413	MPS2924	2009	MPS6535M	2023	MPS9600H	2010	MPS9700D	2009	MQ32	1104	MS701T	2010
MM4017	2417	MPS2925	2009	MPS6539	2058	MPS9601	2010	MPS9700E	2009	MQ62	1104	MS2991	2030
MM4048	2023	MPS2926	2009	MPS6540	2058	MPS9604	2058	MPS9700F	2009	MQ82	1104	MS3694	2009
MM4049	2449	MPS2926-B	2030	MPS6541	2058	MPS9604D	2009	MPS9700U	2009	MR-1	1104	MS7501S	2010
MM4052	2023	MPS2926-BRN	2009	MPS6542	2058	MPS9604E	2009	MPS9750D	2023	MR-1C	1114	MS7501T	2010
MM5000	2007	MPS2926-G	2009	MPS6543	2058	MPS9604F	2009	MPS9750F	2023	MR1C	1114	MS7502R	2009
MM5001	2007	MPS2926-GRN	2009	MPS6544	2009	MPS9604FG	2009	MPS9750G	2023	MR1M	1114	MS7502S	2010
MM5002	2007	MPS2926-O	2030	MPS6545	2009	MPS9604I	2009	MPS9750OF	2023	MR21CR	1067	MS7502T	2010
MM5189	2030	MPS2926-ORG	2009	MPS6546	2009	MPS9604R	2009	MPS9750T	2023	MR47C-H	565	MS7503R	2009
MM5262	2030	MPS2926-R	2030	MPS6547	2010	MPS9606	1102	MPS65611	2009	MR51C-H	565	MS7504	2060
MM8006	2016	MPS2926-RED	2009	MPS6548	2058	MPS9606H	1102	MPS94231	2010	MR51E-H	565	MS7505	2023
MM8007	2016	MPS2926-Y	2030	MPS6552	2009	MPS9606I	1102	MPS9604I	2009	MR62C-H	561	MS7506H	2030
MMCM918	2010	MPS2926-YEL	2009	MPS6553	2009	MPS9611-S	2009	MPS9606I	1102	MR62E-H	561	MS7506J	2030
MMCM930	2016	MPS2926BRN	2009	MPS6554	2009	MPS9616	2009	MPS9632I	2009	MR62H	561	MS9667	2023
MMCM2484	2061	MPS2926GRN	2009	MPS6555	2009	MPS9616J	2009	MPS96800	2023	MR91C-H	562	MS9681	2023
MMT70	2016	MPS2926ORN	2009	MPS6556	2009	MPS9618	2009	MPS964611	1102	MR91E-H	562	MSA7505	2020
MMT71	2061	M											

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MSR7503	2009	MVA-05A(DIO)	1104	NS723A	1740	NC29	1123	NKT222	2007	NPC212N	2062	NS2008	1114
MSR-V5	1104	MVA-05A(RECT)	1104	NS741V	007	NC30	2007	NKT222S1	2007	NPC214N	2062	NS2100	2030
MSS-1090	1104	MX-3108	2009	N-7400A	1801	NC207AL	2009	NKT222S2	2007	NPC215N	2062	NS2101	2030
MSS1000	1102	MX-3122	2010	N7400A	1801	NCR046	2030	NKT223	2007	NPC216N	2062	NS3006	1114
MSS7501	2010	MX-3123	2010	N7400F	1801	NCR047	2030	NKT223A	2007	NPC290	2030	NS3007	1114
MSS7502	2010	MX3336	1758	N7400N	1801	NCS9018D	2010	NKT224	2007	NPC737	2009	NS3008	1114
MST-10	2030	MX-3634	2411	N7401	1801	NE269	2007	NKT224A	2007	NPC1075	2059	NS3039	2010
MST7501	2010	MX3634	2411	N7401A	1801	NE-446AQ	1102	NKT225	2007	NPS404	2023	NS3040	2010
MT021	1104	MX-3733	2009	N7401F	1801	NE555N	1723	NKT225A	2007	NPS404A	2023	NS3041	2010
MT021A	1104	MX3733	2058	N7401N	1801	NE555V	1723	NKT226	2007	NPS6512	2009	NS-3065	1759
MT022	1104	MX-3743	2059	N-7404A	1802	NE556A	1728	NKT226A	2007	NPS6513	2009	NS3300	2010
MT022A	1104	MX-4491	2009	N7404A	1802	NE572	1781	NKT227	2007	NPS6514	2009	NS3903	2009
MT0404	2023	MY-1	1104	N7404F	1802	N-EA15X130	2010	NKT227A	2007	NPS6518	2027	NS3904	2009
MT0404-1	2023	MZ-00	1102	N-7408A	1822	N-EA15X131	2010	NKT228	2007	NPS6519	2009	NS3905	2023
MT0404-2	2023	MZ090	562	N7408A	1822	N-EA15X132	2010	NKT228A	2007	NPS6520	2009	NS3906	2023
MT0411	2023	MZ5.1T5	565	N7408F	1822	N-EA15X133	2007	NKT231	2007	NPS6522	2009	NS6001	2023
MT0412	2023	MZ6.2	561	N7408N	1822	N-EA15X134	2010	NKT231A	2007	NPS6523	2009	NS6062	2023
MT0413	2023	MZ6.2A	561	N7447A	1805	N-EA15X135	2010	NKT232	2007	NPSA20	2016	NS6062A	2023
MT0414	2061	MZ6.2B	561	N7447B	1805	N-EA15X136	2009	NKT232A	2007	NR041	2009	NS6063	2023
MT0461	2023	MZ6.2T5	561	N7447F	1805	N-EA15X137	2009	NKT242	2007	NR041E	2009	NS6063A	2023
MT0462	2023	MZ-9	562	N7490A	1808	N-EA15X138	2009	NKT243	2007	NR-071AU	2009	NS6064	2023
MT0493	2058	MZ9.1B	562	N7490F	1808	N-EA16X29	563	NKT244	2007	NR071AU	2009	NS6064A	2023
MT14	1104	MZ-11	563	N7490N	1808	N-EA16X30	1104	NKT245	2007	NR091ET	2009	NS6065	2023
MT24	1104	MZ-12	563	N-52329	2041	NF500	1104	NKT246	2007	NR201AT	2009	NS6065A	2023
MT44	1104	MZ12	563	N-121122	2041	NF501	1104	NKT247	2007	NR-261AS	2009	NS6112	2010
MT64	1104	MZ12A	563	N121122	2041	NF506	1104	NKT247A	2007	NR261AS	2009	NS6113	2010
MT84	1114	MZ-12B	563	NA-13	1104	NF550	1104	NKT249	2007	NR271AY	2009	NS6114	2009
MT100	2010	MZ12B	563	NA13	1104	NF4302	2062	NKT251	2007	NR401	2009	NS6115	2009
MT101	2010	MZ15A	564	NA-22	1104	NF4303	2062	NKT252	2007	NR401EH	2009	NS6207	2009
MT102	2010	MZ15T20	564	NA22	1104	NGP3002	1123	NKT253	2007	NR401EG	2009	NS6210	2009
MT104	2009	MZ92-4.7A	565	NA-25	1104	NGP3003	1143	NKT254	2007	NR421	2010	NS6211	2023
MT106	2010	MZ92-5.1A	565	NA25	1104	NGP5002	561	NKT255	2007	NR-421AS	2016	NS6211A	2023
MT107	2010	MZ92-6.0B	561	NA-32	1104	NGP5007	562	NKT261	2007	NR421DG	2010	NS6241	2023
MT-302	2030	MZ92-6.2A	561	NA32	1104	NGP5010	563	NKT262	2007	NR-431AG	2009	NS7261	2010
MT696	2009	MZ92-9.1A	562	NA-33	1104	NJ100A	2010	NKT263	2007	NR-431AS	2009	NS7262	2009
MT697	2009	MZ-92-9.1B	562	NA33	1104	NJ100B	2009	NKT264	2007	NR461	2009	NS7267	2010
MT706	2009	MZ92-9.1B	562	NA-35	1104	NJ101B	2023	NKT265	2007	NR461AA	2016	NS9400	2030
MT706A	2009	MZ92-12A	563	NA35	1104	NJ102C	2009	NKT270	2007	NR461AF	2010	NS9420	2030
MT706B	2009	MZ92-15A	564	NA-36	1104	NJ107	2030	NKT273	2007	NR-461AS	2009	NS9500	2030
MT707	2009	MZ205	565	NA36	1104	NJ181B	2007	NKT278	2007	NR461EH	2009	NS9540	2030
MT708	2009	MZ209	562	NA-42	1104	NJ202B	2010	NKT303	2007	NR-601AT	2023	NS9710	2010
MT726	2023	MZ209A	562	NA42	1104	NJM4558D	038	NKT308	2007	NR601BT	2023	NS9728	2030
MT743	2010	MZ209B	562	NA-45	1104	NK8P-2A19	2007	NKT618	2007	NR621AT	2023	NS9729	2030
MT744	2010	MZ209C	562	NA45	1104	NK9L-4A19	2007	NKT674F	2007	NR-621AU	2023	NS9730	2030
MT753	2010	MZ-212	563	NA-46	1104	NK12-1A19	2009	NKT675	2007	NR621EY	2023	NS9731	2030
MT869	2023	MZ212	563	NA46	1104	NK65-1A19	2007	NKT676	2007	NR631AY	2023	NS51021	1114
MT1038	2010	MZ308	562	NA-62	1104	NK65A119	2007	NKT677	2007	NS32	2007	NT101	1067
MT1038A	2010	MZ309	562	NA-63	1104	NK65B119	2007	NKT677F	2007	NS121	2007	NT1056	2009
MT1039	2010	MZ309B	562	NA-65	1104	NK66-1A19	2007	NKT4055	2043	NS200	2007	NTC-4	2010
MT1060A	2010	MZ409-02B	562	NA-66	1104	NK66-2A19	2007	NKT10339	2009	NS345	2016	NTC-5	2010
MT1061	2016	MZ500-9	565	NA-74	1114	NK66-3A19	2007	NKT10419	2009	NS381	2010	NTC-6	2023
MT1061A	2010	MZ500-18	563	NA74	1114	NK74-3A19	2007	NKT10439	2009	NS382	2010	NTC-7	2016
MT1075	2061	MZ500-20	564	NA-75	1114	NK8B8119	2009	NKT10519	2009	NS383	2009	NTC-8	2061
MT1100	2061	MZ500-9	565	NA75	1114	NK8B8119	2007	NKT12329	2009	NS384	2009	NTC-10	2023
MT1131	2023	MZ500-15	562	NA-76	1114	NK1302	2007	NKT12429	2009	NS404	2023	NTC-11	2030
MT1131A	2023	MZ500-18	563	NA76	1114	NK1404	2007	NKT13329	2009	NS406	2016	NTC-12	2055
MT1132	2023	MZ605	561	NA-84	1114	NKA8-1A19	2009	NKT13429	2009	NS475	2009	NTC-13	1123
MT1132A	2023	MZ610	561	NA84	1114	NKT4	2007	NKT15325	2007	NS476	2009	NTC-14	1123
MT1132B	2023	MZ620	561	NA-85	1114	NKT5	2007	NKT15425	2007	NS477	2009	NTC-15	1103
MT1254	2023	MZ640	561	NA85	1114	NKT11	2007	NKT16229	2016	NS478	2009	NTC-18	1114
MT1255	2023	MZ1000-6	565	NA-86	1114	NKT12	2007	NKT16325	2007	NS479	2009	NTC-19	1104
MT1256	2023	MZ1000-8	561	NA86	1114	NKT24	2007	NKT16425	2007	NS480	2009	NTC-21	1759
MT1257	2023	MZ1000-12	562	NA-104	1114	NKT25	2007	NKT20329	2023	NS661	2023	NTT275	2007
MT1258	2023	MZ-1000-15	563	NA104	1114	NKT32	2007	NKT20329A	2023	NS662	2023	NU34	1123
MT1259	2023	MZ1000-15	563	NA-105	1114	NKT33	2007	NKT20339	2023	NS663	2023	NU398B	1104
MT1420	2023	MZ1000-17	564	NA105	1114	NKT42	2007	NKT35219	2016	NS664	2023	OA415	2023
MT1613	2030	MZ1005	565	NA1022-1001	2007	NKT43	2007	NKT80111	2062	NS665	2023	OZ212A	563
MT1711	2030	MZ1009	562	NA1022-1007	2007	NKT52	2007	NKT80215	2062	NS666	2023	OZ212GR	563
MT1889	1123	MZ1012	563	NA-1114-1001	2007	NKT53	2007	NKT80216	2062	NS667	2023	O4-8054-3	1104
MT1991	2023	MZ2360	1102	NA-1114-1002	2007	NKT54	2007	NL5	1104	NS668	2023	O4-8054-4	1104
MT2303	2023	MZ2361	1102	NA-1114-1004	2007	NKT62	2007	NL-10	1104	NS731	2009	O4-8054-7	1104
MT2411	2023	MZ4624	565	NA-1114-1005	2007	NKT63	2007	NL10	1104	NS731A	2009	O9-306113	1102
MT2412	2023	MZ4625	565	NA-1114-1006	2007	NKT64	2007	NL15	1104	NS732	2009	O9-306195	1102
MT3001	2016	MZ4627	561	NA-1114-1007	2007	NKT72	2007	NL20	1104	NS732A	2023	O9-309060	2009
MT3002	2016	MZK9.1	562	NA-1114-1008	2007	NKT73	2007	NL25	1104	NS733	2009	O101	1104
MT3011	2010	N-02	1104	NA-1114-1009	2007	NKT74	2007	NL30	1104	NS733A	2009	O234	1104
MT4101	2009	N-020	2007	NA-1114-1010	2007	NKT103	2007	NL40	1104	NS734	2009	O-15551	2061
MT4102	2009	N020	2007	NA-1114-1011	2007	NKT121	2007	NL50	1104	NS734A	2009	OS73510	2016
MT4102A	2009	N1X	2030	NA2002	703	NKT122	2007	NL60	1104	NS949	2009	OS75005	1123
MT4103	2009	N2A	1123	NA5015-1012	2007	NKT123	2007	NL100B	2010	NS1000	2023	OA2	1101
MT4104	2016	N4T	2009	NA5018-1001	2007	NKT124	2007	NL-102	2009	NS1000A	2023	OA6	1123
MT6001	2009	N-41	1104	NA5018-1002	2007	NKT125	2007	NN50	1104	NS1001	2023	OA7	1123
MT6002	2009	N4B	1123	NA5018-1003	2007	NKT126	2007	NN650	2023	NS1001A	2023	OA8	1104
MT6003	2009	NS7B2-3	2007	NA5018-1004	2007	NKT127	2007	NN1199	2058	NS1356	2010	OA9	1123
MT9001	2009	NS7B2-6	2007	NA5018-1005	2007	NKT128	2007	NN9017	2009	NS1500	2009	OA9D	1123
MT9002	2009	NS7B2-7	2007	NA5018-1006	2007	NKT129	2007	NP04549	2061	NS1510	2010	OA9E	1123
MT9003	2010	NS7B2-11	2007	NA5018-1007	2007	NKT131	2007	NP50A	1104	NS1672	2023	OA-10	2030
MT102351A	2007	NS7B2-13	2007	NA5018-1008	2007	NKT132	2007	NP60A	1104	NS1672A	2023	OA10	1141
MTTP7N06	2072	NS7B2-14	2007	NA5018-1009	2007</								

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OA90-FM	1123	OC71N	2007	OC362	2007	O55-36885	1104	P3CA	2023	P10156A	1114	PBC108	2016
OA90FV	1123	OC-72	2807	OC-363	2007	O5536885	1104	P3D	2007	P10619-1	2041	PBC108A	2016
OA98G	1123	OC72	2007	OC363	2007	OY 101	1104	P3D5	1104	P-10954-1	2041	PBC108B	2016
OA98GA	1123	OC-73	2007	OC-364	2007	OY-5061	1104	P3W	2043	P-10954-2	2041	PBC108C	2016
OA90LF	1123	OC73	2007	OC364	2007	OY5061	1104	P3Z	2023	P-11748-1	2030	PBC109	2016
OA90M	1123	OC-74	2007	OC-390	2007	OY-5062	1104	P4A5	1104	P-11901-1	2041	PBC109B	2016
OA90MLF	1123	OC74	2007	OC390	2007	OY5062	1104	P4B5	1104	P-11903-1	2030	PBC109C	2016
OA90Z	1123	OC74N	2007	OC400	2007	OY5063	1104	P4C	2023	P12407-1	2023	PBC182	2010
OA90ZA	1123	OC-75	2007	OC-410	2007	OY5064	1104	P4C5	1104	P15153	2009	PBC183	2059
OA91	1123	OC75	2007	OC410	2007	OY5065	1104	P4D5	1104	P21309	1124	PBE3162-1	2007
OA92	1123	OC-75N	2007	OC430	2023	OY5066	1104	P4G	2023	P21316	1104	PBE3162-2	2007
OA95	1123	OC75N	2007	OC430K	2023	OY5067	1114	P4J14	2020	P21317	1104	PBE3322	1123
OA99	1123	OC76	2007	OC440	2023	OZ5.1T5	565	P4K	2023	P21344	562	PBX103	2007
OA126-12	863	OC-77	2007	OC440K	2023	OZ5.1T10	565	P4P	2023	P21443	1104	PBX113	2007
OA126-12	563	OC77	2007	OC443	2023	OZ6.2T5	561	P4R	2023	P38103/507-10	564	PC02P1/2	1104
OA127	1104	OC77M	2007	OC443K	2023	OZ6.2T10	561	P4W	2023	P50200-11	2041	PC0211/2	1104
OA128	1104	OC78	2007	OC445	2023	OZ12T5	563	P4Y	2023	P64447	2009	PC0.2P11/2	1104
OA129	1104	OC-79	2007	OC445K	2023	OZ12T10	563	P4Z	2030	P69941	2016	PC100	2020
OA130	1104	OC79	2007	OC449	2023	OZ15T5	564	P5A5	1104	P633024	2030	PC110	2020
OA131	1104	OC80	2007	OC449K	2023	OZ15T10	564	P5B	2023	P633024C(SYLVANIA)	2030	PC1007	2023
OA132	1104	OC81	2007	OC450	2023	P00347100	2023	P5B5	1104		2030	PC1007A	2023
OA134Q	1123	OC81D	2007	OC460	2023	P00347101	2023	P5C	2023	P633024G	2030	PC1007B	2023
OA150	1123	OC-11DD	2007	OC460K	2023	P04-41-0025-001	1103	P5C5	1104	P633567	2009	PC1008A	2023
OA159	1123	OC81DD	2007	OC463	2023	P04-42-0011	1103	P5D	2023	P6450026	2030	PC1008B	2023
OA160	1123	OC81DN	2007	OC463K	2023	P04-44-0028	2009	P5D5	1104	P6460036	2007	PC4004	1104
OA161	1123	OC110	2007	OC465	2023	P04-45-0014-P2	2009	P5H	2027	P6460037	2007	PC4900-1	2030
OA172	1123	OC120	2007	OC465K	2023	P04-45-0014-P5	2009	P5U	2027	PA-069	1104	PC7805H	1770
OA174	1123	OC122	2007	OC466	2023	P04-45-0015-P1	2023	P6/2H	1104	PA069	1104	PC-20046	1737
OA100	1104	OC123	2007	OC466K	2023	P04-45-0016-P1	2023	P6A5	1104	PA070	1104	PC-20056	2010
OA200	1102	OC-130	2007	OC467	2023	P04-45-0026-P5	2030	P6B5	1104	PA071	1104	PD101	1104
OA202	1102	OC130	2007	OC467K	2023	P04-450016-002	2023	P6C5	1104	PA-3	1104	PD102	1104
OA205	1102	OC-140	2007	OC468	2023	P04410025-003	1103	P6D5	1104	PA3	1104	PD103	1104
OA210	1104	OC-169	2007	OC468K	2023	P04410042-001	1103	P6RPH	1114	PA9D522/1	1171	PD104	1104
OA211	1104	OC169	2007	OC469	2023	P04410042-002	1103	P6RPT0	1114	PA200	1104	PD105	1104
OA214	1104	OC169R	2007	OC469K	2023	P04440028-001	2009	P7A5	1104	PA300	1104	PD106	1104
OA541	1123	OC-170	2007	OC470	2023	P04440028-009	2009	P7B5	1104	PA305	1104	PD107	1104
OA909	1123	OC170	2007	OC470K	2023	P04440028-014	2009	P7C5	1104	PA305A	1104	PD107A	1104
OA1265	565	OC170N	2007	OC601	2007	P04440028-8	2009	P7D5	1104	PA310	1104	PD108	1104
OA2002	1102	OC170R	2007	OC-602	2007	P04440032-1002	2009	P8/2H	1104	PA310A	1104	PD110	1104
OA2005	1102	OC170V	2007	OC602	2007	P04450016-004	2023	P8H	2027	PA315	1104	PD111	1104
OA12612	563	OC-171	2007	OC6025P	2007	P04450026P5	2030	P16	1101	PA315A	1104	PD114	1114
OA201	565	OC171	2007	OC6025Q	2007	P04450040-002	2041	P17	1101	PA-320	1104	PD115	1114
OA2203	561	OC171N	2007	OC603	2007	P/FTV 117	2020	P20	1104	PA320	1104	PD116	1114
OA7207	562	OC171R	2007	OC-604	2007	P/N114-603-02	2016	P32H	1104	PA-320A	1104	PD122	1104
OA209	565	OC171V	2007	OC604	2007	P/N297L010C01	2023	P62H	1104	PA320A	1104	PD125	1104
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OA2212	562	OC200	2023	OC-612	2007	P1A5	1104	P82H	1104	PA320B	1104	PD130	1104
OA2213	563	OC201	2023	OC612	2007	P1B	2023	P100	1104	PA325	1104	PD131	1104
OA2240	565	OC202	2023	OC-613	2007	P1B5	1104	P100A	1104	PA325A	1104	PD132	1104
OA2241	565	OC203	2023	OC613	2007	P1C	2023	P100B	1104	PA325B	1104	PD133	1104
OA2243	561	OC204	2023	OC-614	2007	P1C5	1104	P100D	1104	PA330	1104	PD134	1104
OA2247	562	OC205	2023	OC614	2007	P1CG	2023	P100G	1104	PA330A	1104	PD135	1104
OA2269	565	OC206	2023	OC-615	2007	P1D	2023	P100J	1104	PA330B	1104	PD137	1102
OA2270	561	OC207	2023	OC615	2007	P1D5	1104	P150A	1104	PA340	1104	PD154	1104
OA2272	562	OC302	2007	OC615N	2007	P1E	2043	P150B	1104	PA340A	1104	PD155	1104
OA2273	563	OC303	2007	OC700	2023	P1E-1BLK	2043	P150D	1104	PA340B	1104	PD910	1104
OC3H	2007	OC304	2007	OC700A	2023	P1E-1BLU	2043	P150G	1104	PA350	1104	PD913	1114
OC4H	2007	OC304/1	2907	OC700B	2023	P1E-1GRN	2043	P150J	1104	PA350A	1104	PD914	1114
OC4K	2007	OC304/3	2007	OC702	2023	P1E-1RED	2043	P200	1104	PA360	1104	PD915	1114
OC32	2007	OC304-1	2007	OC702A	2023	P1E-1VIO	2043	P346	2010	PA360A	1104	PD916	1114
OC33	2007	OC304-2	2007	OC702B	2023	P1E-2BLK	2043	P400	1104	PA380	1114	PD1001	2009
OC-34	2007	OC304-3	2007	OC704	2023	P1E-2BLU	2043	P480A0018	2030	PA400	1104	PD1002	2009
OC34	2007	OC304N	2007	OC711	2007	P1E-2GRN	2043	P480A0022	2023	PA600	1104	PD1011	1171
OC-38	2007	OC305	2007	OC740	2023	P1E-2RED	2043	P480A0023	2023	PA1060	2023	PD6006	565
OC38	2007	OC305-1	2007	OC740G	2023	P1E-2VIO	2043	P480A0027	2023	PA1001	2023	PD6007	565
OC40	2007	OC305-2	2007	OC740M	2023	P1E-3BLK	2043	P480A0028	2009	PA1001A	2023	PD6007A	565
OC41	2007	OC306	2007	OC740O	2023	P1E-3BLU	2043	P480A0029	2009	PA7001/0001	2009	PD6009	561
OC41A	2007	OC306/1	2007	OC742	2023	P1E-3GRN	2043	P580	1114	PA7001/521	1801	PD6009A	561
OC41N	2007	OC306/2	2007	OC742G	2023	P1E-3RED	2043	P600	1104	PA7001/526	1801	PD6013	562
OC42	2007	OC306/3	2007	OC742M	2023	P1E-3VIO	2043	P800	1114	PA7001/527	1802	PD6013A	562
OC42N	2007	OC306-1	2007	OC742O	2023	P1H	2023	P1080	1114	PA7615	1104	PD6016	563
OC43	2007	OC306-2	2007	OC810	2007	P1J	2023	P1080A	2023	PA8260	2016	PD6016A	563
OC43N	2007	OC306-3	2007	OC-975	2007	P1L	2007	P1055	1123	PA8261	564	PD-6018	564
OC-44	2007	OC-507	2007	OC7400	2023	P1L4956	2007	P1172	1102	PA8543	2016	PD6018	564
OC44	2007	OC307	2007	OC7420	2023	P1N	2023	P1172-1	1102	PA8645	1104	PD-6018A	564
OC44N	2007	OC307-1	2007	OF-129	2007	P1N-1	2023	P1901-40	2016	PA9004	2016	PD6018A	564
OC-45	2007	OC307-2	2007	OF129	2007	P1N-2	2023	P1901-50	2009	PA9005	2016	PD6048	565
OC45	2007	OC307-3	2007	OF156	1102	P1N-3	2023	P1901-70	2023	PA9006	2009	PD6050	561
OC45N	2007	OC-308	2007	OF160	1104	P1P	2023	P2271	2041	PA9154	2007	PD6054	562
OC-46	2007	OC308	2007	OF162	1102	P1P-1	2023	P2440	1114	PA9155	2007	PD6057	563
OC46	2007	OC309	2007	OF164	1104	P1V-4	2027	P3139	2041	PA9156	2007	PD-6059	564
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OC47	2007	OC309-3	2007	O-15551	2061	P2A5	1104	PA9267	2041	PA9267	561	PE401	1104
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OC53	2007	OC320	2007	ON174	2007	P2C5	1104	P5152	2009	PA10880	2007	PE403	1104
OC54	2007	OC-330	2007	ON271	2009	P2D5	1104	P5153	2009	PA10887	1104	PE404	1104
OC55	2007	OC330	2007	ON274	2009	P2E	2023	P-6006	1102	PAD720	2007	PE405	1104
OC56	2007	OC331	2007	ON47204-1	2009</								

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PE5030B	2059	PL-151-045-9-001	1104	PN918	2010	PS610	1104	PT703	2009	PXB113	2007	Q-16	2007
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PEP2	2009	PL-151-045-9-004	1104	PN930	2009	PS615	1104	PT850	2030	PXC101	2007	Q-35	2009
PEP5	2009	PL-152-044-9-001	562	PN930(NSC)	2009	PS616	1104	PT850A	2030	PXC101A	2007	Q-36	2023
PEP6	2009	PL-152-047-9-001	561	PN930(NTLB)	2009	PS617	1104	PT851	2009	PXC-101AB	2007	Q-36A	2023
PEP7	2009	PL-152-051-9-001	562	PN1613	2030	PS621	1104	PT855	2007	PXC101AB	2007	Q49	1123
PEP8	2009	PL-152-052-9-002	561	PN1711	2030	PS622	1104	PT856	2007	PY-5	1104	Q50	1123
PEP9	2009	PL-172-010-9-001	2020	PN2222	2009	PS623	1104	PT886	2009	Q-00269	2009	Q51	1123
PEP9S	2060	PL-172-014-9-001	2020	PN2369	2009	PS627	1104	PT887	2009	Q-00269A	2009	Q52	1104
PEP1001	2010	PL-176-025-9-001	2016	PN2369A	2009	PS628	1104	PT888	2009	Q-00269B	2009	Q53	1104
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PET3001	2010	PL-176-042-9-004	2009	PN3564	2009	PS1140	1114	PT1835	2009	Q-00384R-3	2010	Q82	1104
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PET3704	2009	PL-177-006-9-001	2023	PN3568	2061	PS2209	1104	PT2575	2009	Q-00469C	2016	Q2001A/S2	1090
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PET4001	2009	PL1023	2016	PN3644	2009	PS2411	1104	PT3141A	2009	Q-00569B	2009	Q4001P	1090
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PET4125	2023	PL1051	2010	PN4354	2023	PS4725	1104	PT4816	2010	Q-00469C	2009	Q5053F	2016
PET4126	2023	PL1052	2009	PN4355	2023	PS5300	1104	PT4830	2010	Q-00484R	2009	Q5053G	2016
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PET6002	2009	PL1054	2009	PN4423	2023	PS5302	1104	PT40063	1103	Q-00869	2030	Q5073E	2009
PET8000	2009	PL1055	2010	PN4916	2023	PS6010-1	2016	PT72130	1104	Q-00869A	2030	Q5073F	2009
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PET8004	2009	PL1064	2010	PP3006	2041	PS8912	562	PTC103	2023	Q-00969B	2030	Q5087Z	2023
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PET8007A	2009	PL1083	2030	PQ27	2007	PS10024B	564	PTC125	2061	Q0415	2023	Q5102P	2023
PET8101	2016	PL1084	2030	PQ30	2007	PS10063	562	PTC126	2016	Q-01115C	2010	Q5102G	2023
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PET8201	2010	PL1102	2023	PR605	565	PS-10068	564	PTC129A	2055	Q-01169A	2030	Q5110Z	2041
PET8202	2030	PL1103	2023	PR617	563	PS10068	564	PTC130	2055	Q-01169B	2030	Q5111ZK	2055
PET8203	2030	PL1104	2023	PR-620	564	PS30802	1103	PTC131	2023	Q-01169C	2030	Q5116C	2023
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PET8250	2010	PL1112	2016	PR804	565	PSA06	2061	PTC136	2009	Q-03115C	2009	Q5121	2016
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PET8304	2023	PL4053	2009	PRT-104-1	2009	PT2A	2007	PTC153	2060	Q-08115C	2016	Q5123F	2009
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PET9021	2030	PL4055	2009	PRT-104-3	2009	PT-3	1104	PTC157	2027	Q0V60526	2007	Q5135-OY	2061
PET9022	2030	PL4061	2016	PRT-104-4	2030	PT3	1104	PTC160	2007	Q0V60528	2007	Q5137BA	2020
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PH204	1104	PMT018	2030	PS105	1104	PT9C22/1	1114	PTC215	565	Q2N2613	2007	Q5210	2016
PH208	1104	PMT019	2030	PS110	1104	PT-505	1104	PTC217	1124	Q2N4107(PNP)	2007	Q-10115C	2009
PH404	1104	PMT020	2030	PS-120	1104	PT505	110						

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QA11-125	542	QRT-234	542	R-1A	1104	R2048	1171	R2252	1104	R4422	2007	R4428	2007
QA-1	2007	QRT-237	541	R1A	1104	R2110	1114	R2270-4472A	2038	R-7824	1102	R4481	2007
QA-8	2030	QRT-240	542	R-1B	1143	R-227	2007	R2278-7147	2041	R-7827	1102	R4485	2007
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RD-9L	562	RE78	2041	REN152	2020	RFJ711122	1104	RLM1A	1104	RS-1555	2007	RS3280	2007
RD-9.1	562	RE-82	2063	REN153	2027	RFJZ0432	1104	RLM-1AV	1104	RS1555	2007	RS3281	2007
RD9.1E	562	RE82	2043	REN156	1114	RFJ30596	1104	RLM1B	1114	R-S-1720	1104	RS-3282	2007
RD9.1ED	562	RE-88	1101	REN159	2023	RFJ30596	1104	RLM1C	1114	RS1720	1104	RS3282	2007
RD9.1EK	562	RE88	1101	REN160	2007	RFA-33160	1104	RLM-1V	1104	RS1726	2010	RS-3283	2007
RD9.1F	562	RE-89	1101	REN161	2016	RFA33160	1104	RLM1Z	1104	RS1749	1104	RS3283	2007
RD9.1FA	562	RE90	1101	REN164	2055	RFP-33118	1104	RLM1ZB	1104	RS-1805	1104	RS-3284	2007
RD9.1FB	562	RE 90	1114	REN165	2055	RFP33118	1104	RLM-1ZV	1104	RS1805	1104	RS3284	2007
RD9.1AM	562	RE90	1114	REN166	1171	RFV60500	1104	RLM1ZV	1104	RS1811	1123	RS-3285	2007
RD11EC	563	RE91	1101	REN172	2060	RG100B	1104	RLM2	1104	RS1832	1104	RS3285	2007
RD12	563	RE92	1114	REN172A	2060	RG100D	1104	RLM2A	1114	RS-2002	2007	RS-3286	2007
RD12E</													

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
RS-3316-1	2007	RS5301	2007	RS-5731	2007	RS-7105	2009	RS7406	2009	RS9511	2010	RT-929-H	2009
RS3316-1	2007	RS5302	2007	RS5731	2007	RS7105	2009	RS7407	2009	RS9512	2010	RT-929H	2009
RS-3316-2	2007	RS5303	2007	RS5732	2007	RS-7106	2010	RS7408	2009	RS15048	2009	RT929H	2009
RS3316-2	2007	RS-5305	2007	RS-5733	2007	RS7106	2010	RS7408(1C)	1822	RS-57042	2007	RT-930H	2009
RS-3318	2007	RS5305	2007	RS5733	2007	RS-7107	2010	RS-7409	2009	RS57042	2007	RT930H	2010
RS3318	2007	RS-5306	2007	RS-5734	2007	RS7107	2010	RS7409	2009	RS-57062	2007	RT1008	1123
RS-3322	2007	RS5306	2007	RS5734	2007	RS-7108	2010	RS7410	2009	RS57062	2007	RT1106	1123
RS3322	2007	RS-5311	2007	RS5735	2007	RS7108	2010	RS-7411	2009	RS57433	2007	RT1108	1123
RS-3323	2007	RS5311	2007	RS-5736	2007	RS-7109	2010	RS7411	2009	RS86057332	2009	RT1115	2061
RS3323	2007	RS-5312	2007	RS5736	2007	RS7109	2010	RS-7412	2009	RSLNA0004CEZZ	1101	RT1184	1123
RS-3324	2007	RS5312	2007	RS-5737	2007	RS-7110	2010	RS7412	2009	RSWY/16L7Z	1123	RT1395	2009
RS3324	2007	RS-5313	2007	RS5737	2007	RS7110	2010	RS-7413	2009	RT-100	2009	RT1595	1104
RS-3570	1104	RS5313	2007	RS5738	2007	RS7111	2009	RS7413	2009	RT100	2009	RT1669	1102
RS3570	1104	RS5314	2007	RS5740	2007	RS7112	2010	RS7415	2009	RT-101	2009	RT-1609	1123
RS3648	2007	RS5317	2007	RS5740-1	2007	RS-7113	2010	RS7421	2009	RT-102	2009	RT1689	1102
RS3717	2007	RS-5401	2007	RS-5742	2007	RS7113	2010	RS7447	1805	RT-103	2023	RT1840	1104
RS3726	2007	RS5401	2007	RS5742	2007	RS-7114	2010	RS7490	1808	RT103	2009	RT-2016	1123
RS-3727	1104	RS5402	2007	RS-5743	2007	RS7114	2010	RS-7504	2058	RT-104	2016	RT2016	2009
RS3727	1104	RS5403	2007	RS5743	2007	RS-7115	2010	RS7504	2009	RT104	2009	RT206(G.E.)	1102
RS3857	2007	RS-5406	2007	RS-5743-1	2007	RS7115	2010	RS7510	2009	RT-105	2016	RT2230	2007
RS-3862	2007	RS5406	2007	RS5743-1	2007	RS7116	2010	RS-7511	2009	RT105	2009	RT2309	2016
RS3862	2007	RS-5502	2007	RS-5743-2	2007	RS7117	2010	RS7511	2010	RT-106	2061	RT2329	2007
RS-3863	2007	RS5502	2007	RS5743-2	2007	RS7118	2010	RS-7512	2010	RT106	2023	RT2330	2007
RS3863	2007	RS5503	2007	RS-5743-3	2007	RS7119	2010	RS7512	2010	RT-107	2010	RT2331	2007
RS3864	2007	RS-5504	2007	RS5743-3	2007	RS7120	2010	RS7513	2009	RT107	2010	RT2332	2009
RS-3866	2007	RS5504	2007	RS5743.3	2007	RS7121	2009	RS7513-15	2009	RT-108	2016	RT2334	1123
RS3866	2007	RS-5505	2007	RS-5744	2007	RS7122	2010	RS7514	2009	RT108	2010	RT2452	1123
RS-3867	2007	RS5505	2007	RS5744	2007	RS7123	2010	RS7515	2009	RT-108A	1104	RT-2649	1104
RS-3868	2007	RS-5506	2007	RS-5744-3	2007	RS-7124	2009	RS7516	2009	RT-109	2061	RT2669	1104
RS3868	2007	RS5506	2007	RS5744-3	2007	RS7124	2009	RS7517	2009	RT109	2061	RT2694	1123
RS3880	2007	RS5507	2007	RS5745	2007	RS7125	2010	RS7517-19	2009	RT-112	2016	RT2709	2007
RS-3892	2007	RS-5511	2007	RS5746	2007	RS7126	2010	RS7518	2009	RT112	2010	RT2914	2009
RS3892	2007	RS5511	2007	RS5747	2007	RS-7127	2009	RS7519	2009	RT-113	2016	RT2915	2010
RS3897	2007	RS-5530	2007	RS5748	2007	RS7127	2009	RS7520	2010	RT113	2009	RT3063	2009
RS-3898	2007	RS5530	2007	RS-5749	2007	RS7128	2010	RS7521	2009	RT-114	2030	RT3064	2009
RS3898	2007	RS-5531	2007	RS5749	2007	RS-7129	2009	RS7522	2010	RT114	2009	RT3065	2023
RS-3900	2007	RS5531	2007	RS5750	2007	RS7129	2009	RS7523	2010	RT-118	2061	RT3065A	2023
RS3900	2007	RS-5532	2007	RS5751	2007	RS7132	2009	RS7524	2010	RT-120	2061	RT3069	2010
RS-3901	2007	RS5532	2007	RS-5752	2007	RS7133	2009	RS7525	2009	RT126	2009	RT3070	2010
RS3901	2007	RS-5533	2007	RS5752	2007	RS7135	2009	RS7526	2009	RT-126A	2023	RT3071	2023
RS-3902	2007	RS5533	2007	RS-5753	2007	RS7136	2010	RS7527	2009	RT-131	2041	RT3071A	2023
RS3902	2007	RS-5534	2007	RS5753	2007	RS7138	2010	RS7528	2009	RT131	2041	RT3072	1123
RS-3903	2007	RS5534	2007	RS-5753-2	2007	RS7139	2010	RS7529	2009	RT-133	2020	RT3095	2010
RS3903	2007	RS-5535	2007	RS5753-2	2007	RS7140	2010	RS7530	2009	RT-134	2010	RT3097	2007
RS-3904	2007	RS5535	2007	RS-5754	2007	RS7141	2010	RS7532	2010	RT-139	2055	RT3098	2007
RS3904	2007	RS-5536	2007	RS5754	2007	RS7142	2010	RS7533	2010	RT-140	2055	RT3099	1123
RS3905	2007	RS5536	2007	RS-5755	2007	RS7143	2010	RS7542	2009	RT-141	2030	RT3225	2010
RS3906	2007	RS-5540	2007	RS5755	2007	RS7144	2010	RS7543	2009	RT141	2030	RT3226	2010
RS-3907	2007	RS5540	2007	RS-5756	2007	RS7145	2010	RS7544	2009	RT-144	2060	RT3227	2010
RS3907	2007	RS-5541	2007	RS5756	2007	RS7160	2009	RS7555	2009	RT-150	2020	RT3228	2009
RS-3911	2007	RS5541	2007	RS-5757	2007	RS7161	2010	RS7568	2007	RT150	2020	RT3229	2007
RS3911	2007	RS-5542	2007	RS5757	2007	RS7162	2010	RS-7606	2009	RT-151	2027	RT3230	2007
RS3912	2007	RS5542	2007	RS-5758	2007	RS7163	2010	RS7606	2009	RT151	2027	RT3231	2007
RS-3913	2007	RS5543	2007	RS5758	2007	RS7164	2010	RS-7607	2009	RT-154	2041	RT3232	2010
RS3913	2007	RS-5544	2007	RS-5759	2007	RS7165	2010	RS7607	2009	RT154	2030	RT3233	1123
RS-3914	2007	RS5544	2007	RS5759	2007	RS7166	2010	RS-7609	2009	RT-155	2027	RT3334	1123
RS3914	2007	RS5545	2007	RS-5760	2007	RS7167	2010	RS7609	2009	RT155	2027	RT3361	2007
RS-3915	2007	RS-5551	2007	RS5760	2007	RS7168	2010	RS-7610	2009	RT-158	2020	RT3362	2007
RS3915	2007	RS5551	2007	RS-5761	2007	RS7169	2010	RS7610	2009	RT-172	1104	RT3363	2007
RS-3925	2007	RS-5552	2007	RS5761	2007	RS7170	2010	RS-7611	2009	RT-183	2007	RT3364	2007
RS3925	2007	RS5552	2007	RS-5762	2007	RS7173	2058	RS7611	2009	RT-185	2007	RT3365	2007
RS-3926	2007	RS-5553	2007	RS5762	2007	RS7174	2010	RS-7612	2009	RT185	2007	RT3443	1104
RS3926	2007	RS5553	2007	RS5765	2007	RS7175	2010	RS7612	2009	RT-187	2059	RT3449	2007
RS-3929	2007	RS-5554	2007	RS5766	2007	RS7176	2010	RS-7613	2010	RT-188	2030	RT3466	2007
RS3929	2007	RS5554	2007	RS5767	2007	RS7177	2010	RS7613	2009	RT188	2030	RT3467	2007
RS3986	2007	RS-5555	2007	RS5768	2007	RS-7201	2010	RS-7614	2009	RT-200	1123	RT3468	2007
RS3995	2007	RS5555	2007	RS-5802	2007	RS7201	2010	RS7614	2009	RT-202	1124	RT3469	1123
RS4001	2401	RS-5556	2007	RS5802	2007	RS-7202	2010	RS7620	2009	RT-203	1114	RT3550	1104
RS4011	2411	RS5556	2007	RS-5818	2007	RS7202	2010	RS7621	2009	RT-210	1114	RT3564	2007
RS4013	2413	RS-5557	2007	RS5818	2007	RS7209	2010	RS-7622	2009	RT210	1114	RT3565	2007
RS4017	2417	RS5557	2007	RS5825	2007	RS7210	2010	RS7622	2009	RT-212	1104	RT3566	2009
RS4049	2449	RS-5558	2007	RS-5851	2009	RS7211	2010	RS-7623	2009	RT-213	1104	RT3567	2007
RS-5008	2007	RS5558	2007	RS5851	2009	RS-7212	2010	RS7623	2009	RT213	1104	RT3568	2009
RS5008	2007	RS5563	2007	RS-5852	2007	RS7212	2010	RS7624	2009	RT-214	1104	RT3585	1104
RS5101	2007	RS5564	2007	RS5852	2007	RS7214	2010	RS7625	2009	RT214	1104	RT3671	564
RS5102	2007	RS5565	2007	RS-5853	2009	RS7215	2010	RS7626	2009	RT-215	1104	RT3671A	564
RS5103	2007	RS5566	2007	RS5853	2009	RS7216	2010	RS7627	2009	RT215	1104	RT-3858	1104
RS-5104	2007	RS5567	2007	RS-5854	2007	RS7217	2010	RS7628	2009	RT-218	1102	RT3858	1104
RS5104	2007	RS5568	2007	RS5854	2007	RS7218	2010	RS7634	2009	RT218	1102	RT3981	1104
RS-5105	2007	RS-5602	2007	RS-5856	2009	RS7219	2010	RS7635	2009	RT-220	1101	RT4050	1104
RS5105	2007	RS5602	2007	RS5856	2009	RS7220	2010	RS7636	2009	RT-222	1101	RT4069	1104
RS-5106	2007	RS5603	2007	RS-5857	2009	RS7221	2010	RS7637	2009	RT-223	1101	RT-4232	1104
RS5106	2007	RS5605	2007	RS5857	2009	RS7222	2010	RS7638	2009	RT-235	565	RT4232	1104
RS-5107	2007	RS5607	2007	RS-6344	1104	RS7223	2009	RS7639	2009	RT235	565	RT4293	1123
RS5107	2007	RS5608	2007	RS6344	1104	RS7224	2009	RS7640	2009	RT-237	561	RT4525	2007
RS-5108	2007	RS5610	2007	RS-6461	1104	RS7225	2010	RS7641	2009	RT-240	562	RT4624	2007
RS5108	2007	RS-5704	2007	RS6461	1104	RS7226	2009	RS7642	2009	RT-243	563	RT-46	

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RT5208	2016	RT7849	1104	RVD2DP22 /1B	1104	S074-007-001	1102	S-1 S-10	1114	S 12A	1143	S105A	1141
RT5213	1123	RT7850	1104	RVD2DP221B	1171	S0W2A	1124	S-2	1104	S13	1104	S106	1104
RT5214	1123	RT7851	1104	RVD2DP221P	1104	S088	2007	S2A	1104	S13A	1144	S107	1104
RT5217	1102	RT7943	2009	RVD2P22 /1B	1104	S-0501	1104	S2A 10	1104	S14	1104	S108	1103
RT5305	1134	RT7945	2030	RVD48265J2	1104	S0501	1104	S2A20	1142	S14A	1144	S115	1104
RT5401	2030	RT7946	1102	RVD08MB4	1171	S0702	562	S2A30	1144	S15	1104	S124AHB	2041
RT5402	2030	RT8047	2016	RVDBMBA	1104	S0704	2009	S2A40	1144	S-15-10	1104	S129	1104
RT5403	2030	RT8193	2009	RVD10D1	1104	S017446	2023	S2A06	1141	S15A	1104	S130-138	2016
RT5404	2030	RT8195	2009	RVD10DC1	1104	S019843	2023	S2AR1	1104	S16	1104	S130-251	2016
RT5435	2016	RT8197	2009	RVD10DC1R	1104	S022010	2009	S2AR2	1104	S16A	1104	S133-1	2009
RT5464	2010	RT8198	2009	RVD10E1	1104	S022011	2059	S2C30	1104	S16B	1104	S160	1102
RT5465	2010	RT8201	2009	RVD10E1LF	1104	S022012	2023	S2C40	1104	S-17	1104	S169N	2009
RT5466	2007	RT8231	1104	RVD10E11F	1104	S023735	2023	S2C40A	1104	S17	1104	S180	1102
RT5467	2007	RT8330	2009	RVD12B-1	1171	S024428	2009	S2CN1	1143	S-17A	1104	S191G	1104
RT5468	2007	RT8332	2009	RVDC08P1	1104	S024987	2009	S2D153	2020	S17A	1104	S200	1104
RT5472	1104	RT8333	2058	RVDD1248	1171	S025232	2009	S2E20	1104	S18	1104	S201	1104
RT5520	2007	RT8335	2020	RVDD1245	1171	S025289	2009	S2E60	1104	S18A	1104	S202	1104
RT5521	2007	RT8336	2027	RVDD5-410	1104	S026094	2023	S2E60-1	1104	S18B	1104	S203	1104
RT5522	2007	RT8337	2016	RVDG905A	1104	S	562	S2E100	1114	S19	1104	S204	1104
RT5551	2009	RT8338	2027	RVDKB162CS	1104	S1-1	1104	S2F10	1104	S19A	1104	S205	1104
RT5554	1132	RT8339	562	RVDKB265J2	1102	S1-801-02	1104	S2F20	1104	S20	1114	S206	1104
RT5637	2007	RT8340	1104	RVDMMZ209	562	S1-RECT-35	1102	S2GR2	1143	S20ND400	1104	S208	1114
RT5793	561	RT8442	2007	RVDO_8C2211A	1144	S1-RECT-102	1104	S2M1	1143	S20NH400	1104	S210	1114
RT5900	2010	RT8527	2009	RVDR1548	1171	S1A06	1104	S2M2	1141	S21	1104	S217	1104
RT5901	2009	RT8602	2007	RVDRD5A1E	565	S1A060	1104	S2P8	1171	S22	1104	S218	1104
RT5902	2010	RT8665	1114	RVDRD5RIE8	565	S1A	1104	S2P810	1152	S22A	1104	S219	1104
RT5903	2010	RT8666	2016	RVDRD11AN	562	S1A3	561	S2PB40	1173	S23	1104	S220	1104
RT5904	2010	RT8668	2010	RVD5S277B	1104	S1A60	1104	S2Q20	1104	S23A	1104	S221	1104
RT5905	2016	RT8669	2010	RVD5D-1	1104	S1A80	1114	S2Q40	1104	S24	1114	S222	1104
RT5906	2030	RT8670	2023	RVD5D-1U	1104	S1A100	1114	S2Q60	1104	S26	1104	S223	1104
RT5907	2030	RT8671	1123	RVD5D-1Y	1104	S1AR1	1104	S2Q80	1114	S28	1114	S224	1104
RT5908	1123	RT8840	1104	RVD5D-1Z	1114	S1AR2	1104	S2Q100	1114	S30	1104	S229	1143
RT5909	1102	RT8841	1104	RVD5G-5N	1114	S1B01	1104	S2RB40	1173	S31	1104	S230	1104
RT5911	1104	RT8843	2016	RVD5G-5P	1114	S1B01-01	1104	S2TB	1173	S32	1104	S232	1104
RT5939	1123	RT8895	2023	RVDR3AM2M	1104	S1B-01-02	1104	S2TB10	1152	S33	1104	S233	1104
RT6119	1123	RT61012	1123	RVDVD1250M	1102	S1B01-02	1104	S2TB40	1173	S35	1104	S234	1104
RT6157	2010	RT-61014	2007	RV5S2C645	2010	S1B01-06	1104	S2V	1114	S36	1104	S235	1104
RT6158	2010	RT61014	2007	RV7CS1381	2009	S1B01-0226	1104	S2VB	1104	S40	1104	S236	1143
RT6159	2010	RT61015	2007	RV7CS1382	2023	S1B02	1104	S2VC	1104	S40A	1104	S238	1104
RT6160	2010	RT61016	2007	RV7CS1383	2009	S1B02-0	1104	S2VC10	1114	S43	1104	S239	1104
RT6179	1123	RT69221	2009	RV7CS1384	2010	S1B02-03C	1114	S2VC10R	1114	S44	1104	S240	1104
RT6180	1193	RTJ0201	1067	RV7CS1473	2016	S1B02-06CE	1104	S2Z20	1143	S46	1104	S241	1104
RT6181	1123	RTJ0203	1067	RV7MCO9921-3	1101	S1B02-06CRE	1104	S2Z40	1144	S47	1104	S243	1108
RT6182	1123	RTJ0206	1067	RV7S22410	2009	S1B02-C	1104	S3A06	1104	S48	1104	S250	1104
RT6183	1123	RTJ0210	1067	RV7S22411	2023	S1B02-CR	1104	S3A1	1143	S49	1104	S251	1104
RT6184	1123	RTJ0215	1020	RX090	562	S1B02-0	1104	S3A2	1143	S-55TB	2007	S252	1104
RT6189	1123	RTJ0220	1067	RYN12104	2030	S1B0101CR	1104	S3A3	1144	S61	1114	S253	1104
RT6201	2058	RUI1	1104	RYN121105	2009	S1B0102	1104	S3A4	1144	S62	1114	S254	1104
RT6202	2058	RUIA	1104	RYN121105-3	2009	S1B02018	1104	S3AR1	1104	S63	1114	S255	1104
RT6203	2010	RUIB	1114	RYN121105-4	2009	S1B0201CR	1104	S3BA05	1141	S65-1-A-3P	2007	S256	1104
RT6204	2039	RUIC	1114	RZ-3	1114	S1B-0306	1114	S3CN1	1144	S65A-1-3P	2007	S257	1114
RT6205	2007	RUIZ	1104	RZ5-1	565	S1B	1104	S3G4	1114	S65B-1-3P	2007	S258	1114
RT6322	1104	RU2	1104	RZ6-2	561	S1B1	1104	S3G10	1143	S66-1-A-3P	2007	S260	1114
RT6332	1104	RU2AM	1104	RZ9-1	662	S1BD1-02	1104	S3G20	1143	S66-2-A-3P	2007	S-262	1104
RT6600	2010	RU-2M	1104	RZ12	563	S1C	1114	S3G40	1144	S66-3-A-3P	2007	S262	1104
RT6600MHF25	2009	RUD2DP22 /1B	1104	RZ15	564	S1CN1	1104	S3G40Z	1144	S-70T	2007	S-305	2041
RT6601	2010	RV06	1104	RZ15A	564	S1D	1114	S3GR2	1144	S70T	2007	S305	2041
RT6602	2010	RV06 /7825B	1104	RZ-15A8	564	S1D508851-A	1102	S3M1	1143	S70.00.730	2007	S-305-PD	2041
RT6604	2007	RV1	1104	RZ5-1	565	S1D51C052-19	1104	S-3MX	1104	S70.01.704	2009	S-305A	2041
RT6605	1104	RV2	1104	RZ26-2	561	S1D51C169-1	1104	S3MX	1104	S72	1104	S305A	2041
RT6619	1123	RV1017	1102	RZ29-1	562	S1D153	2020	S3V20	1114	S73	1104	S305D	2041
RT6729	1104	RV1059	2023	RZ212	563	S1G10	1104	S4A06	1104	S74-3-A-3P	2007	S-310E	2020
RT6732	2010	RV1068	2058	RZ2156	564	S1G20	1104	S4A06	1104	S75	1104	S353	2041
RT6733	2007	RV1180	2007	S0302	2059	S1G#0	1104	S4AR1	1104	S77	1104	S-356	2041
RT6734	2007	RV1189	1104	S0015	2009	S1G40Z	1104	S4AF2	1104	S79	1104	S356	2041
RT6735	2007	RV1226	1102	S0016	2010	S1G60Z	1104	S4AR30	1104	S-80T	2007	S-371	2007
RT6736	2007	RV1395	2059	S0020	2010	S1GR2	1143	S4C	1104	S81	1104	S380	706
RT6737	2058	RV1424	1104	S0021	2010	S1L200	1104	S4CN1	1143	S82	1104	S409F	2030
RT6787	2058	RV1467	2010	S0022	2009	S1M	1141	S4FN300	1104	S83	1104	S428	1104
RT6791	1104	RV1468	2010	S0023	2016	S1M1	1141	S4GR2	1143	S84	1104	S431	1104
RT6921	2009	RV1469	2010	S0024	2059	S1M2	1141	S4M1	1144	S85	1104	S-50#	1114
RT6921MHF25	2009	RV1470	2010	S0025	1152	S1QB10	1173	S4B40	1173	S86	1104	S-500B	1104
RT-6922	565	RV1471	2009	S0026	2023	S1QB40	1173	S5AR1	1104	S-87TB	2007	S500B	1144
RT6922	565	RV1473	2030	S001465	2016	S1QB40Z	1173	S5AR2	1104	S87TD	2007	S-500C	1104
RT6908	2007	RV1474	2009	S001466	2009	S1R12B	563	S5CN1	1144	S88B-1-3P	2007	S500C	1144
RT6909	2009	RV1475	2007	S001683	2030	S1R138	563	S5M1	1144	S88C-1-3P	2007	S502	1102
RT6990	2007	RV1476	1144	S006793	2016	S1R20	1102	S-55	1104	S-88TB	2007	S502A	1102
RT6991	2010	RV1478	1104	S006927	2016	S1R60	1104	S55	1104	S88TB	2007	S502B	1102
RT7320	2010	RV1479	1123	S007220	2030	S1R80	1104	S-55R	1104	S91	1104	S506	1102
RT7321	2010	RV2070	2016	S007764	2016	S1R8	1171	S5SR	1104	S91-A	1104	S506A	1102
RT7322	2009	RV2071	1102	S0-4295-10	2041	S1R8-10	1171	S6-3	1171	S91-H	1104	S505B	1102
RT7323	2010	RV2072	1104	S01	2007	S1R810	1171	S6AR1	1104	S91A	1141	S509	1102
RT7324	2010	RV2213	562	S02	2007	S1R840	1173	S6AR2	1104	S91B	1143	S509A	1102
RT7325	2009	RV2220	1104	S03	2007	S1R840Z	1173	S6BR2	1114	S91H	1104	S509#	1102
RT7326	2009	RV2248	2016	S04	1102	S1RBA10	1152	S7-B	1102	S92	1104	S520	2023
RT7327	2009	RV2249	2009	S04-1	1102	S1RBA40	1173	S7AR1	1114	S92-A	1104	S608	2023
RT7330	1123	RV2250	1104	S04A-1	1102	S1RBA40Z	1173	S7BR2	1114	S92-H	1104	S684	2007
RT7401	2007	RV2260	2023	S04B-1	1102	S1RC20	1104	S8-06	1104	S92A	1141	S685	2007
RT7402	1171	RV-2289	1104	S-05	1104	S1RC20R	1104	S8-10	1114	S92H	1104	S686	2007
RT7511	2009	RV2289	1104	S05	1104	S1S2	1104	S8AR1	1114	S93	1104	S687	2007
RT7514	2009	RV2327	1104	S-05-01	1114	S1S11	1123	S8AR2	1114	S93A	1104	S790	1114</

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S1037	2010	S1405	2009	S2062C	1020	S-5277B	1104	S95201	2007	SA17F	2007	SA30L	2007
S1040	1144	S1408	2010	S2062F	1067	S5277B	1104	S95202	2009	SA17G	2007	SA30M	2007
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S1041-16GN	2010	S1419	2009	S2085	1123	S5327E	2010	S95204	2007	SA17R	2007	SA30X	2007
S1044	2010	S1420	2009	S2087G	1102	S-5328E	2010	S95205	2007	SA17T	2007	SA30Y	2007
S1047	2023	S1421	2030	S2091	2023	S5328E	2010	S95206	2007	SA17X	2007	SA31A	2007
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S1066	2009	S-1512	2009	S2159	2010	S9516	2007	S1977634	2041	SA18T	2007	SA31Y	2007
S-1068	2009	S1512	2009	S2171	2009	S9524	2007	S2041635	2007	SA18X	2007	SA32A	2007
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S1080(TRANSISTOR)		S1533	2009	S2400A	2030	S17900	2030	SA2Z	1114	SA19R	2007	SA32X	2007
	2009	S-1559	2009	S2400B	2030	S18000	2030	SA3B	1104	SA19T	2007	SA32Y	2007
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S1143	2009	S1629	2009	S2402B	2030	S21639	562	SA12E	2007	SA20E	2007	SA35E	2007
S-1153	2010	S1636	2010	S2402C	2030	S21648	2010	SA12F	2007	SA20F	2007	SA35F	2007
S1153	2010	S1639	2007	S2403B	2041	S22543	2009	SA12G	2007	SA20G	2007	SA35G	2007
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S-1221A	2009	S1674A	2010	S2525	2023	S24596	2009	SA12Y	2007	SA20Y	2007	SA35Y	2007
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S1226	2009	S1683	2030	S2581	2009	S24614	2030	SA13B	2007	SA21B	2007	SA36B	2007
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S1242	2009	S1761	2009	S2617(UHF)	2010	S27233	2030	SA13L	2007	SA21L	2007	SA36L	2007
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S-1296	2010	S1772	2009	S2794	2030	S33529	2027	SA14E	2007	SA26E	2007	SA37E	2007
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S1307	2009	S1777	2030	S2944	2009	S33755	2009	SA14G	2007	SA26G	2007	SA37G	2007
S1308	2010	S1784	2009	S2984	2009	S33990	2010	SA14L	2007	SA26L	2007	SA37L	2007
S1309	2009	S1785	2009	S2985	2009	S34540	2009	SA14M	2007	SA26M	2007	SA37M	2007
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S1313	2010	S1801-02	1104	S2980A	2023	S35233	2010	SA14T	2007	SA26T	2007	SA37T	2007
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S1318	2010	S1865	2041	S2996	2009	S37162	2020	SA15A	2007	SA28A	2007	SA38A	2007
S1331	2009	S1871	2009	S2997	2009	S37165	2027	SA15B	2007	SA28B	2007	SA38B	2007
S1331N	2009	S1874	2030	S2998	2009	S37166	2020	SA15C	2007	SA28C	2007	SA38C	2007
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S1332	2007	S1891	2009	S3004(HEP)	2023	S37423	2009	SA15F	2007	SA28F	2007	SA38F	2007
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S1346	2007	S1905	2041	S3019	2010	S39094	2023	SA15N	2007	SA28N	2007	SA38N	2007
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S1350	2023	S1907	2041	S3030G	1123	S39262	2020	SA15T	2007	SA28T	2007	SA38X	2007
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S-1361	2010	S20											

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SA821A	561	SB-309A	1104	SC159B	2023	SCI44191005	2030	SD-1N4148	1103	SD95A	1104	SDT3711	2027
SA823	561	SB309A	1171	SCI174	2009	SCI444103053	2030	SD-1S1555	1102	SD96	1104	SDT3712	2027
SA823A	561	SB-309C	1104	SCI174A	2009	SCL4001	2401	SD-1U	1104	SD96A	1104	SDT3713	2027
SA825	561	SB309C	1171	SCI174B	2009	SCL40018C	2401	SD-1UF	1104	SD965	1104	SDT3715	2027
SA825A	561	SB315	1104	SC256	2061	SCL40018D	2401	SD1X	1104	SD98	1114	SDT3716	2027
SA827	561	SB332	1104	SC256A	2061	SCL40018E	2401	SD1Y	1104	SD98A	1114	SDT3717	2027
SA827A	561	SB333	1104	SC257	2061	SCL40018F	2401	SD-1Z	1104	SD985	1114	SDT3720	2027
SA829	561	SB393	1104	SC257A	2061	SCL40018BD	2401	SD1Z	1104	SD100	1102	SDT3721	2027
SA829A	561	SB821	561	SC257V1	2023	SCL40018BE	2401	SD1ZHF	1104	SD-101	1104	SDT3722	2027
SA836A	2023	SB821A	561	SC257VI	2061	SCL40018BF	2401	SD-2	1104	SD101	1144	SDT3725	2027
SA836B	2023	SB823	561	SC258	2061	SCL40018BH	2401	SD2	1114	SD102	1104	SDT3726	2027
SA836C	2023	SB823A	561	SC258A	2061	SCL4011	2411	SD2A	1104	SD103	1104	SDT3727	2027
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SA836G	2023	SB827A	561	SC259	2061	SCL40118F	2411	SD-5	1102	SD109	2009	SDT5102	2020
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SA836R	2023	SB-1000	1114	SC305	1104	SCL40118BD	2411	SD-5(PHILCO)	1102	SD-150	1123	SDT6001	2020
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SA036Y	2023	SBR-260	1104	SC786	2016	SCL40118BH	2411	SD6(DUAL)	1149	SD201	1104	SDT6031	2020
SA841A	2023	SC05	1104	SC821	561	SCL4013	2413	SD-4AUF	1114	SD202	1104	SDT6103	2020
SA841B	2023	SC05E	1104	SC821A	561	SCL4013AC	2413	SD-7(PHILCO)	1102	SD282A	1124	SDT7511	2020
SA841C	2023	SC1	1104	SC823	561	SCL4013AD	2413	SD7(RECT)	1114	SD345	2020	SDT7512	2020
SA841D	2023	SC2	1104	SC823A	561	SCL4013AE	2413	SD-8	562	SD-404	1124	SDT7514	2020
SA841E	2023	SC2C	1104	SC825	561	SCL4013AF	2413	SD8	1114	SD445	2027	SDT7515	2020
SA841F	2023	SC-4	1104	SC825A	561	SCL4013AH	2413	SD-8(PHILCO)	562	SD461	1123	SDT9009	2020
SA841G	2023	SC4	1104	SC827	561	SCL4013BC	2413	SD10	1104	SD470	1104	SDT9201	2041
SA841L	2023	SC-6	1123	SC827A	561	SCL4013BD	2413	SD-12	1123	SD500	1102	SDT9205	2041
SA841M	2023	SC-7	1020	SC829	561	SCL4013BE	2413	SD12	1123	SD506C	1104	SDT9206	2041
SA841R	2023	SC-7(PHILCO)	1020	SC829A	561	SCL4013BF	2413	SD12(PHILCO)	1102	SD501	1104	SDT9210	2041
SA841T	2023	SC8	1114	SC-832	2009	SCL4013BH	2413	SD12B	1123	SD600	1104	SDT9261	2021
SA841X	2023	SC8A	1114	SC832	2009	SCL4013BP	2413	SD12E	1123	SD606C	1102	SDT9301	2041
SA841Y	2023	SC10	1114	SC842	2009	SCL4017	2417	SD12M	1123	SD630	1102	SDT9302	2041
SA842A	2023	SC10A	1114	SC1061	2009	SCL4017ABC	2417	SD-13	1104	SD632	562	SDT9303	2041
SA842B	2023	SC-12	2007	SC1067	2007	SCL4017ABD	2417	SD13	1104	SD632(10)	562	SDT9304	2041
SA842C	2023	SC12	2007	SC1010	2009	SCL4017ABE	2417	SD-13(PHILCO)	1123	SD701-02	1102	SDT9306	2041
SA842D	2023	SC12(DIODE)	1102	SC-1016	1103	SCL4017ABF	2417	SD-14	1123	SD800	1114	SDT9307	2041
SA842E	2023	SC-16	1104	SC1168G	2009	SCL4017ABH	2417	SD14	1123	SD838	1124	SDT9308	2041
SA842F	2023	SC16	1104	SC1168H	2009	SCL4017AC	2417	SD-15	562	SD910	1114	SDT9309	2041
SA842G	2023	SC23-3	1104	SC1227F	2010	SCL4017AD	2417	SD15	1123	SD910A	1114	SD-Y	1104
SA842L	2023	SC23-9	1104	SC1227G	2010	SCL4017AE	2417	SD-16	1123	SD9105	1114	SE0301	2058
SA842M	2023	SC43	2007	SC1229E	2030	SCL4017AF	2417	SD16	1123	SD950	1104	SE002(1)	2019
SA842R	2023	SC44	2007	SC1229G	2009	SCL4017AH	2417	SD-16A	1104	SD974	1102	SE0	1114
SA842T	2023	SC45	2007	SC1414	1104	SCL4017BC	2417	SD-16D	1104	SD1101	1104	SE-05	1104
SA842X	2023	SC46	2007	SC1431	1104	SCL4017BD	2417	SD-18	1104	SD1102	1104	SE05	1104
SA842Y	2023	SC54	1123	SC1431(GE)	1102	SCL4017BE	2417	SD18	1104	SD1103	1104	SE-05-01	1104
SA853	2007	SC-63	2007	SC1631	1104	SCL4017BF	2417	SD-19	1171	SD1104	1104	SE-05-02	1104
SA909A	2023	SC63	2007	SC1631(GE)	1104	SCL4017BH	2417	SD20	1104	SD1345	2020	SE-05-A	1104
SA909B	2023	SC-65	2009	SC40018H	2401	SCL4023	2423	SD21A	1123	SD1445	2027	SE-05-B	1104
SA909C	2023	SC65	2009	SC40018BC	2401	SCL4023AC	2423	SD23	1104	SD11441	2016	SE-05-C	1114
SA909D	2023	SC-66	2009	SC4010	2009	SCL4023AD	2423	SD-27	562	SDA345	2020	SE-05-D	1114
SA909E	2023	SC66	2007	SC-4044	2009	SCL4023AE	2423	SD27	562	SDA445	2027	SE-05-E	1104
SA909F	2023	SC-68	2007	SC4044	2009	SCL4023AF	2423	SD33	563	SD8345	2026	SE-05-F	1144
SA909G	2023	SC68	2007	SC4116	1104	SCL4023AH	2423	SD-34	1102	SD8445	2027	SE05B	1104
SA909L	2023	SC-69	2007	SC4131	2030	SCL4023BC	2423	SD34	1123	SD5	1101	SE-05C	1114
SA909M	2023	SC69	2007	SC4131-1	2030	SCL4023BD	2423	SD-43	1102	SD6	1101	SE05C	1114
SA909R	2023	SC-71	2007	SC4167	2030	SCL4023BE	2423	SD43	1102	SDD420	2030	SE05D	1104
SA909T	2023	SC71	2007	SC-4244	2009	SCL4023BF	2423	SD45	1104	SDD421	2009	SE05E	1104
SA909X	2023	SC-72	2007	SC4244	2030	SCL4023BH	2423	SD46	1123	SDD420	2010	SE0555	1104
SA909Y	2023	SC72	2007	SC4303	2020	SCL4049	2449	SD46-2	1123	SDD821	2009	SE-05X	1104
SA-93792	1102	SC-73	2007	SC4303-1	2020	SC05	1104	SD46-2	1123	SDD1220	2030	SE-0566	2009
SA-93794	562	SC73	2007	SC4303-2	2020	SC05E	1104	SD-51	1124	SDD3000	2009	SE05-01	1104
SA81044	2016	SC-74	2007	SC4308	2020	SCP5E	1104	SD51	1124	SD-ERB24-04D	1104	SE-05A	1144
SA83469	2016	SC74	2007	SC9430P	1757	SCR15	1067	SD53	563	SDH-2	1123	SE-05B	1104
SA8-1843	2010	SC-78	2007	SC9436P	1759	SCR104(ELCOM)	1067	SD54	1123	SDH-2HC	1124	SE-1.5A	1114
SAE-1	2041	SC78	2007	SCA05	1104	SCR108	1067	SD-56	1123	SDI345	2020	SE-2	1104
SAE-2	2043	SC-79	2007	SCA1	1104	SCR108(ELCOM)	1067	SD56	1123	SDI445	2027	SE-5	1104
SATCHZ339	2010	SC79	2007	SCA2	1104	SCR200	1067	SD-60	1123	SDJ345	2020	SE5-0127	2016
SAW-151941	1104	SC-80	2007	SCA3	1104	SCR218	1067	SD60	1123	SDJ445	2020	SE5-0128	2009
SAW-151944	1104	SC80	2007	SCA4	1104	SCR218(ELCOM)	1067	SD-60P	1104	SDK345	2020	SE5-0247-C	1103
SAW-25856	2007	SC91	562	SCA5	1104	SCR404(ELCOM)	1020	SD-61P	1104	SDK445	2020	SE5-0249	2016
SAW-25C372GR	2009	SC107	2009	SCA6	1104	SC71	1114	SD-80	1104	SDL345	2020	SE5-0250	2016
SAW-25C372Y	2009	SC107A	2009	SCA8	1114	SC10	1114	SD80	1104	SDL445	2027	SE5-0253	2009
SAW-25C945R	2009	SC107B	2009	SCA10	1114	SC13	1114	SD82	1124	SDM345	2020	SE5-0274	2009
SB-01	1171	SC108	2009	SCA1103	1104	SC14	1114	SD82A	1124	SDM445	2027	SE5-0366	2061
SB01	1104	SC108A	2009	SCA3022	2016	SC15	1114	SD82AG	1124	SDN345	2020	SE5-0367	2009
SB01-02	1102	SC108B	2009	SCA3235	2016	SD-02	1104	SD-91	1104	SDN445	2027	SE5-0370	2023
SB-03	1104	SC108C	2009	SCA3236	2016	SD05	1104	SD91	1141	SDO345	2020	SE5-0452	2030
SB-04	1173	SC109	2009	SCA3237	2016	SD07	1104	SD-91A	1104	SDP345	2020	SE5-0456	1103
SC0319	2020	SC109A	2009	SCA3238	2016	SD040	1104	SD91A	1143	SDR25	1104	SE5-0565	2016
SB-01-04	1104	SC109B	2009	SCA3239	2016	SD1	1104	SDS-113	1104	SDS-113	1104	SE5-0567	2009
SB-12	1104	SC1-10	1104	SCA3240	2016	SD1-1	1104	SD915	1143	SDS113	1104	SE5-0569	2016
SB12	1141	SC110	1104	SCA3243	2016	SD-1-211B	1104	SD-92	1104	SDS240	2016	SE5-0608	2009
SB-2(CENTERING)	110	SC136D	1000	SCA3244	2016	SD1-211C	1104	SD92	1143	SDS420	2016	SE5-0745	2061
SB-2(CENTERING-SB)	110	SC147	2009	SCA3246	2016	SD1-211C	1104	SD92A	1104	SDT425	2055	SE5-0798	2023
SB2CH	1114	SC147A	2016	SCBR05F	1114	SD1-211C	1104	SD92A	1143	SDT445	2027	SE-5-0819	2007
SB-3	1104	SC147B	2016	SCBR1F	1114	SD1-Z	1104	SD925	1104	SDT445	2027		

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SE5 1057	2023	SE 6002	2009	SFR254	1104	SG-005	1104	SIB020-18	1171	SISW-05-02	1104	SK3041	2020
SE5 1221	2023	SE6002	2016	SFR255	1104	SG005	1144	SIB0102	1104	SISW-0502	1104	SK3046	2009
SE6	1104	SE6006	2030	SFR256	1114	SG-5N	1114	SIB0201CR	1104	SITVR-06G	1104	SK3047	2030
SE6(DUAL)	1101	SE6010	2009	SFR258	1114	SG-5P	1114	SIB-0306	1114	SJ051E	1104	SK3051	1114
SE15B	1114	SE6020	2009	SFR260	1104	SG-5T	1102	SIB0L-02	1104	SJ051F	1104	SK3051/156	1114
SE15C	1114	SE6020A	2030	SFR266	1104	SG-105	1104	SIB0L	1104	SJ052E	1104	SK3054	2020
SE15D	1114	SE6021	2030	SFR268	1114	SG105	1104	SIB1	1104	SJ052F	1104	SK3054 196	2020
SE30026A	1104	SE6021A	2030	SFT104	1123	SG-205	1104	SIB50B794-1	1171	SJ053F	1141	SK3056	565
SE46	1104	SE6022	2030	SFT108	1123	SG205	1143	SIB-C1-02	1102	SJ60F	1104	SK3056 135A	565
SE50	2050	SE6023	2030	SFT120	2007	SG-305	1104	SI-CA3065E	1759	SJ101F	1104	SK3058	561
SE500G	2010	SE7005	2030	SFT151	2007	SG305	1144	SID01E	1104	SJ102F	1104	SK3058/137A	561
SE584	2010	SE7015	2030	SFT152	2007	SG323	1104	SID01K	1114	SJ103F	1143	SK3060	562
SE521	2010	SE 0001	2030	SFT162	2007	SG805	1104	SID01L	1104	SJ201F	1104	SK3060 139A	562
SE555V	1723	SE8001	2030	SFT163	2007	SG555CAM	1723	SID02E	1104	SJ202F	1104	SK3062	563
SE 1001	2050	SE8002	2030	SFT163	2007	SG555M	1723	SID02K	1114	SJ203F	1143	SK3062/142A	563
SE1001	2016	SE-0010	2030	SFT171	2007	SG723CD	1740	SID02L	1104	SJ301F	1104	SK3063	564
SE1001.1	2050	SE8010	2030	SFT172	2007	SG723CN	1740	SID3B-3	1101	SJ302F	1104	SK3063 145A	564
SE1001.2	2050	SE8012	2030	SFT173	2007	SG741CAM	007	SID50B851	1102	SJ401F	1104	SK3072	1759
SE-1002	2009	SE8040	2009	SFT174	2007	SG-805	1104	SID51C052-19	1114	SJ402F	1104	SK3072/712	1759
SE1002	2016	SE8041	2030	SFT221	2007	SG-119#	1104	SID51C169	1104	SJ403F	1144	SK3080	1114
SE1002.1	2016	SE8042	2030	SFT221A	2007	SG119#	1104	SID50B894	1102	SJ501F	1104	SK3081	1114
SE1002.2	2016	SE8510	2030	SFT222	2007	SG1450M	038	SIDA05K	1114	SJ-570	1104	SK3001 125	1114
SE-1010	2016	SE8520	2030	SFT222A	2007	SG2182(PNP)	2007	SIDA05N	1114	SJ570	2009	SK3087	1123
SE1010	2016	SE8521	2030	SFT223	2007	SG2183(PNP)	2007	SIDA05P	1114	SJ601F	1104	SK3088	1123
SE 1019	2010	SE9002	2041	SFT226	2007	SG3182	1102	SIF14A-P	1104	SJ619	2041	SK3009	1124
SE1019	2010	SE9080	2041	SFT227	2007	SG3183	1102	SIG-1'100	1143	SJ619-1	2041	SK3089 112	1124
SE-1044	2010	SEL-1120R	070	SFT228	2007	SG3190	1102	SIG-1'200	1143	SJ820	2041	SK3090	1123
SE1044	2010	SELEN-42	1101	SFT229	2007	SG3400	1104	SIG-1'400	1104	SJ821	2043	SK3090/109	1123
SE-1331	2009	SELEN-44	1171	SFT232	2007	SG3432	1102	SIG-1'600	1104	SJ1003F	1114	SK3091	1123
SE1331	2009	SELEN-64	1114	SFT237	2007	SG3516	1102	SIL	1114	SJ1106	2041	SK3100	1103
SE-1419	2010	SELEN-70	1104	SFT251	2007	SG3583	1102	SIL-200	1104	SJ1152	2027	SK3100 519	1103
SE1419	2010	SELEN-701	1104	SFT252	2007	SG5013	2030	SIL200	1104	SJ1171	2027	SK3105	1171
SE1730	1114	SEN2A1	1171	SFT253	2007	SG5028	1102	SI-LAM3055N	1759	SJ1284	2027	SK3106	1173
SE-2001	2009	SEN2A4	1173	SFT260	2007	SG5392	1102	SI-MC1358P	1759	SJ1470	2041	SK3106/5304	1173
SE2001	2016	SEN432	2041	SFT268	2007	SG5400	1102	SIR20	1104	SJ2090	2041	SK3110	1101
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SE2020	2010	SFOR1A41	1067	SFT306	2007	SG9150	1102	SIR-80	1104	SJ2008	2041	SK3111	2055
SE2397	2010	SF1A11	1067	SFT-307	2007	SGB-9742	2010	SIRB-10	1171	SJ2032	2030	SK3111/277	2055
SE2400	2007	SF1A11A	1067	SFT307	2007	SGC-7202	2009	SIRB10	1114	SJ3464	2041	SK3114	2023
SF2401	2009	SF1B11	1067	SFT308	2007	SGC7202	2030	SI-RECT-73	1104	SJ3520	2043	SK3114 290	2023
SE2412	2009	SF1011A	1057	SFT-315	2007	SG1100	1104	SI-RECT-044	1104	SJ3604	2043	SK3115	2055
SE 2401	2010	SF1C1N1	1114	SFT315	2007	SG6E7231	2016	SI-RECT-2	1104	SJ3629	2009	SK3115 165	2055
SE 2401	2016	SF1D11	1067	SFT-316	2007	SH-1	1104	SI-RECT-2	1104	SJ3678	2041	SK3117	2016
SE 2401Y	2010	SF1D11A	1067	SFT316	2007	SH1	1104	SI-RECT-20	1104	SJ3679	2043	SK3118	2023
SE 2401Y	2010	SF1R3D41	1067	SFT-317	2007	SH-1A	1104	SI-RECT-25	1104	SJ5525	2055	SK3120	1101
SE3002	2016	SF3C1N1	1114	SFT317	2007	SH1A	1104	SI-RECT-27	1104	SJ5526	2055	SK3120/114	1101
SE3003	2010	SF3G14	1020	SFT318	2007	SH-1B	1104	SI-RECT-33	1104	SJ8701	2041	SK3121	1101
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SE3005	2016	SF4CN1	1114	SFT319	2007	SH1C	1114	SI-RECT-35	1104	SJE42	2020	SK3122	2059
SE-3019	2010	SF5	1114	SFT-320	2007	SH-IDE	1104	SIRECT-36	1104	SJE-513	2020	SK3124	2059
SE 3019	2016	SF6	1114	SFT320	2007	SH-1S	1104	SI-RECT-37	1104	SJE513	2020	SK3124/209	2059
SE 3020	2041	SF115	2050	SFT321	2007	SH1S	1143	SI-RECT-39	1104	SJE514	2027	SK3132	2059
SE 3033	2041	SF115A	2050	SFT-322	2007	SH-1Z	1102	SI-RECT-40	1104	SJE-515	2020	SK3133	2055
SE 3035	2041	SF115B	2050	SFT322	2007	SH4D05	1104	SI-RECT-49	1104	SJE515	2020	SK3133/164	2055
SE 3036	2041	SF115C	2050	SFT-323	2007	SH4D1	1104	SI-RECT-53	1104	SJE677	2027	SK3156	2060
SE3100	2059	SF115D	2050	SFT323	2007	SH4D2	1104	SI-RECT-59	1104	SJE678	2020	SK3156/172A	2060
SE 3646	2009	SF115E	2050	SFT-327	2007	SH4D3	1104	SI-RECT-59	1104	SJE694	2020	SK3165	1740
SE3646	2016	SF167	2016	SFT327	2007	SH4D4	1104	SI-RECT-69	1104	SJE695	2027	SK3165 923D	1740
SE 4001	2009	SF173	2016	SFT-337	2007	SH4D6	1104	SI-RECT-73	1104	SJ7B3	2020	SK3173	2043
SE4001	2009	SF194	2016	SFT337	2007	SH4D8	1114	SI-RECT-74	1104	SJE5439	2020	SK3173-219	2043
SE 4002	2009	SF194B	2016	SFT337B	2007	SH15	1104	SI-RECT-75	1104	SJE5441	2020	SK3174	2043
SE4002	2009	SF195	2016	SFT337V	2007	SH1064	2009	SI-RECT-77	1104	SK-18	1104	SK3175/177	1102
SE4010	2009	SF195C	2016	SFT351	2007	SHA7530	2023	SI-RECT-84	1104	SK1FA	1104	SK3188/182	2020
SE 4020	2030	SF195D	2016	SFT-352	2007	SHA7531	2023	SI-RECT-92	1104	SK1K-2	1104	SK3231	705
SE 4020	2016	SF196	2016	SFT352	2007	SHA7532	2023	SIRECT-92	1104	SK-1W50	1123	SK3231/1155	705
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SE 5002	2010	SF310	2016	SFT-358	2007	SHAD1	1104	SI-RECT-102A	1114	SK1640	2023	SK3246	2058
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SE 5003	2010	SF334	2016	SFT440	2030	SI-05A	1114	SI-RECT-110/SB-3F	1104	SK1641	2009	SK3247	2058
SE5065	2016	SF334B	2016	SF443	2030	SIO5A	1141	SI-RECT-112	1114	SK1856	2023	SK3247 234	2023
SE5004	2016	SF335	2016	SF443A	2030	SII	1143	SI-RECT-112/SB-3	1114	SK1856A	2023	SK3256	2020
SE 5096	2009	SF335C	2016	SF445	2030	SI-1A	1114	SI-RECT-122	1104	SK2604	2023	SK3263	2009
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SE 5020	2016	SF1726	2009	SF.7125	2007	SI-4A	1114	SI-RECT-144	1104	SK3005	2007	SK3274/153	2027
SE 5020	2016	SF1730	2009	SF.7163	2007	SI-5A	1114	SI-RECT-152	1102	SK3006	2007	SK3275	2051
SE 5021	2010	SF8014	2023	SF.7171	2007	SI-6A	1114	SI-RECT-154	1104	SK9005 160	2007	SK3275 194	2061
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SK3452 108	2010	SK9007/5804	1144	SLA17AB	1104	SM-1-47	1104	SM1507	2023	SN72905	1773	SP3054	2020
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SK3592	1771	SKA-4076	2058	SLA440B	1104	SM83	1114	SM-5564	2009	SNW-Q-6	2007	SP3502	1067
SK3592 966	1771	SKA4076	2010	SLA441	1104	SM100	1114	SM5564	2009	SO-1	2007	SP3510	2041
SK3593	1772	SKA4129	2023	SLA441B	1104	SM101	1114	SM-5643	2009	SO1	2007	SP3512	2030
SK3593 968	1772	SKA4141	2009	SLA442	1104	SM103	1114	SM5643	2009	SO-2	2007	SP4168	2010
SK3595	1720	SKA4525	2010	SLA442B	1104	SM105	1104	SM5794	2010	SO2	2007	SP4231	2041
SK3595 989	1720	SKA-4590	2058	SLA443	1104	SM110	1104	SM5981	2009	SO-3	2007	SP4436	2016
SK3597	1067	SKA4616	2030	SLA443B	1104	SM112	1104	SM6251	2030	SO3	2007	SP4416	2020
SK3597 5455	1067	SKA4768	2016	SLA444	1104	SM120	1104	SM6762	2009	S-O5	1104	SP4660	2020
SK3598	1020	SKA-4802	2016	SLA444A	1104	SM130	1104	SM6773	2009	SO5	1104	SP40	2009
SK3598 5457	1020	SKA5248	2010	SLA444B	1104	SM140	1104	SM7545	2009	SO10G	1114	SP42	2009
SK3627	1067	SKA-5541	2016	SLA-445	1104	SM-150	1114	SM-7815	2009	SO 25	2007	SP450	2009
SK3627 5404	1067	SKA-5886	2010	SLA445	1104	SM150	1114	SM7815	2009	SO25	2007	SP451	2009
SK3630	1067	SKA5886	2010	SLA445B	1104	SM-150-#05	1114	SM-7836	2009	SO65	2007	SP452	2009
SK3630 5402	1067	SKA6250	2023	SLA536	1104	SM150-01	1114	SM7836	2009	SO-65A	2007	SP410	2055
SK3643	1711	SKA-6256	2009	SLA537	1104	SM-150-#2	1114	SM7991	2030	SO65A	2007	SP413	2055
SK3643 987	1711	SKA-6437	2009	SLA538	1104	SM150-02	1114	SM8112	2009	SO-8	2007	SP423	2055
SK3648 168	1178	SKA-8105	2009	SLA539	1104	SM-150-C2 CENTERING)	1104	SM8113	2009	SO8	2007	SP424	2055
SK3664	1001	SKA9013	2010	SLA540	1104		1101	SM8341	2007	SO501	1104	SP425	2055
SK3664 5602	1001	SKA9096	2010	SLA547	1104	SM-150-04	1104	SM8978	2009	SO-632	1104	SPD-80062	2041
SK3665 5603	1001	SKB8339	2009	SLA560	1114	SM-150-06	1104	SM9060	2009	SO 1906	2016	SPD-80123	9330
SK3666 5605	1001	SKWHG7066	2023	SLA561	1114	SM-150-08	1114	SM9135	2009	SO25094	2016	SPF500	2058
SK3671 961	1773	SL-030	1104	SLA599	1104	SM150-6	1114	SM9253	2009	SOA	1114	SPN01	1104
SK3683 5511	1067	SL030 3490	04	SLA599A	1104	SM-150-10	1114	SM-A-595830-12	2010	SOD30AL	1141	SPS-0122	2030
SK3684 5512	1020	SL0305	1104	SLA600	1104	SM150-11	1114	SM-A-726655	2009	SOD30BL	1141	SPS012	2030
SK3688 992	1713	SL-030T	1104	SLA600A	1104	SM-150-A	1104	SM-A-726658	2023	SOD30DL	1141	SP54	2010
SK3689 978	1728	SL030T	1104	SLA601	1104	SM-150-E	1104	SM-A-726664	2009	SOD50AL	1141	SP512	2023
SK3710	2055	SL0505.T	1104	SLA601A	1104	SM-150-C	1114	SMB447610	2007	SOD50BL	1141	SP520	2010
SK3710 238	2055	SL-2	1104	SLA602	1104	SM-150-D	1114	SMB447610A	2007	SOD50CL	1141	SP522	2010
SK3716	2016	SL2	1104	SLA602A	1104	SM150A	1114	SMB454549	2007	SOD50DL	1141	SP540	2033
SK3716 161	2016	SL-3	1104	SLA603	1104	SM-150B	1114	SMB454760	2007	SOD100AL	1143	SP5-41	2009
SK3721	2007	SL-4	1104	SLA603A	1104	SM150B	1114	SM-B-523974	2023	SOD100BL	1143	SP541	2009
SK3721 100	2007	SL-5	1143	SLA604	1104	SM150C	1114	SMB-541191	1102	SOD100CL	1143	SP542	2023
SK3722	2007	SL5	1104	SLA604A	1104	SM150D	1114	SM-B-574495	2023	SOD100DS	1143	SP542A	2023
SK3722 102	2007	SL91	1104	SLA605	1104	SM150S	1114	SM-B-610342	2009	SOD200AL	1143	SP543-1	2010
SK3749	562	SL92	1104	SLA605A	1104	SM150SS	1114	SMB621960	2007	SOD200BL	1143	SP547	2023
SK3749 5073A	562	SL93	1104	SLA606	1104	SM160	1104	SM-B-686767	2009	SOD200CL	1143	SP549	2030
SK3751	564	SL100	2010	SLA606A	1104	SM170	1114	SMB-706009D	2030	SOD-20BD	1114	SP5220	2010
SK3751 5075A	564	SL100	2010	SLA1095	1104	SM180	1114	SMC7409N	1801	SOD200D	1104	SP5401K	2023
SK3776 5010A	565	SL-103	1143	SLA1096	1104	SM200	1114	SMC7408N	1822	SOD200DL	1143	SP5428	2010
SK3787	563	SL103	1104	SLA1100	1104	SM205	1104	SMC7490N	1003	SP-1	1104	SP5429	2010
SK3787 5021	563	SL119	2023	SLA1101	1104	SM210	1104	SM-C-583256	2009	SP1	1104	SP5477	2009
SK3787 5021A	563	SL300	2009	SLA1102	1104	SM-217	2007	SMC-583259	2030	SP1K-1	1104	SP5514	2023
SK3790	564	SL301C	2030	SLA1103	1104	SM217	2007	SMC-620774-1	2030	SP1K-2	1104	SP5514A	2023
SK3790 5024	564	SL301CE	2030	SLA1104	1104	SM220	1104	SM-C-706156	1103	SP1U-2	1104	SP5627	2009
SK3790 5024A	564	SL403	2059	SLA1105	1104	SM230	1104	SN0303	1104	SP-1.5A	1141	SP5668	2023
SK3852 1232	703	SL608	1114	SLA1487	1104	SM240	1104	SN-1	1104	SP2	2007	SP5699	2010
SK3854 123AP	2009	SL610	1114	SLA1488	1104	SM2491	2007	SN1	1104	SP2-01	1171	SP5816	2010
SK3852 103	2807	SL708	1114	SLA1489	1104	SM250	1104	SN-1Z	1104	SP2-04	1173	SP5817	2009
SK3893 152	2020	SL710	1114	SLA1490	1104	SM260	1104	SN74LS367N	1835	SP6GD1	1101	SP5817N	2009
SK3896 261	2058	SL-833	1104	SLA1491	1104	SM270	1114	SN166	2030	SP6GX1	1101	SP5866	2010
SK3911	2059	SL833	1104	SLA1492	1104	SM280	1114	SN167	2030	SP9	2007	SP5860	2010
SK3912	2023	SL-833A	1104	SLA1692	1104	SM300	1114	SN-400-319-P1	2023	SP10	2009	SP5868	2009
SK4001	2401	SL833A	1104	SLA1693	1104	SM483	1104	SN2222AP	2009	SP11	2010	SP5871	2007
SK4009	2449	SL3693	2010	SLA1694	1104	SM486	1104	SN4448	1103	SP14	2041	SP5906	2016
SK4011	2411	SL7990	2009	SLA1695	1104	SM487	1104	SN7400	1801	SP17	2009	SP5907	2009
SK4013	2413	SL14971	1822	SLA1696	1104	SM488	1104	SN7400A	1801	SP18	2030	SP5915	2010
SK4017	2417	SL16793	1801	SLA1697	1104	SM505	1104	SN7400J	1801	SP34AS	1123	SP5917	2010
SK4023	2423	SL16794	1801	SLA2610	1104	SM510	1104	SN7400N	1801	SP60	1123	SP5918	2009
SK4048	2449	SL16796	1802	SLA2611	1104	SM512	1104	SN7400N-10	1801	SP70	2023	SP5919	2016
SK4066	2466	SL16798	1822	SLA2612	1104	SM513	1104	SN7401J	1801	SP82	1124	SP5920	2009
SK5797	2023	SL17869	1822	SLA2613	1104	SM514	1104	SN7401H	1801	SP82A	1124	SP5-934	2009
SK5790	2023	SL21385	1740	SLA2614	1104	SM515	1104	SN7404N	1802	SP90	2023		

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SPS-1539	2023	SPS4020	2009	SPS4360	2009	SR1C-20	1114	SR-13H	1104	SR1731-4	1104	SS1C1245	1114
SPS-1539(WT)	2016	SPS4025	2023	SPS4361	2030	SR1D-1	1104	SR13H	1104	SR1731-5	1104	SS1C1280	1114
SPS-1539WT	2023	SPS4025A	2023	SPS4363	2069	SR1D1M	1104	SR-14	1104	SR1742	1104	SS1C1740	1114
SPS-1593WT	2023	SPS4026	2023	SPS4365	2023	SR1D-2	1104	SR14	1101	SR1762	1104	SS1C1780	1114
SPS1802	2069	SPS4026A	2023	SPS4365A	2023	SR1D-4	1104	SR15	1101	SR1766	1104	SS1C1960A	1114
SPS1817	2009	SPS4027	2023	SPS4367	2009	SR1D-6	1104	SR-17	1104	SR-1849-1	1104	ST01	2009
SPS1846	2058	SPS4027A	2023	SPS4368	2009	SR1D-8	1104	SR17	1104	SR1984	1104	ST02	2009
SPS1977	2009	SPS4028	2023	SPS4382	2009	SR1DAM	1104	SR-18	1104	SR2121	1104	ST03	2009
SPS2164	2009	SPS4028A	2023	SPS4390	2009	SR1DAM-1	1104	SR-22	1104	SR2301	1104	ST04	2009
SPS2110	2010	SPS4029	2009	SPS4391	2030	SR1DA11	1104	SR22	1104	SR2301A	1104	ST05	2009
SPS2111	2010	SPS4030	2010	SPS4392	2009	SR1DAM-2	1141	SR-23	1104	SR3010	1104	ST06	2009
SPS2129	2009	SPS4031	2023	SPS-4396	2009	SR1DAM-4	1104	SR23	1104	SR3582	1104	ST0727Y	2007
SPS2130	2030	SPS4031A	2023	SPS4397	2023	SR1DAM-6	1104	SR-24	1104	SR3943	1104	ST-25A-Q	2030
SPS2134	2061	SPS4032	2009	SPS4399	2010	SR1DAM-8	1104	SR24	1104	SR6134	1104	ST-123 CR	1103
SPS2135	2010	SPS4034	2009	SPS4423	2010	SR1DAM-10	1104	SR-27	1104	SR6324	1104	ST-146 CR	1103
SPS2142	2009	SPS4037	2009	SPS4436	2058	SR1DMX	1104	SR-27	1104	SR6325	1104	ST-217-Q	2009
SPS2164	2009	SPS4038	2030	SPS4443	2009	SR1E	1104	SR-28	1104	SR6385	1104	ST-25A673C	2023
SPS2167	2010	SPS4039	2009	SPS4446	2009	SR1EM	1104	SR28	1104	SR6415	1104	ST-25A844C	2023
SPS2194	2009	SPS4040	2009	SPS4450	2009	SR1EM-1	1104	SR-30	1104	SR6566	1104	ST-25C383W	2016
SPS2216	2016	SPS4041	2009	SPS4451	2009	SR1EM1	1104	SR30	1104	SR6567	1104	ST-25CT13D	2059
SPS2217	2016	SPS4042	2009	SPS4452	2023	SR1EM-2	1104	SR-34	1102	SR6617	1104	ST-25CT120-Q	2058
SPS2224	2010	SPS4043	2010	SPS4452A	2023	SR1EM2	1104	SR-35	1114	SR6723	1104	S1-25D467B	2058
SPS2225	2069	SPS4044	2009	SPS4453	2009	SR1EM-4	1114	SR35	1104	SR6724	1104	ST27003	2016
SPS-2265	2010	SPS4045	2009	SPS4455	2009	SR1EM-6	1104	SR-37	1101	SR9003	1104	ST9	2010
SPS2265	2010	SPS4049	2009	SPS4456	2009	SR1EM-8	1104	SR37	1101	SR9005	1104	ST10	2010
SPS2265-2	2010	SPS4050	2010	SPS4457	2009	SR1EM-10	1104	SR40	1104	SR-9007	1114	ST11	2010
SPS-2266	2010	SPS4051	2010	SPS4458	2023	SR1EM-12	1104	SR50	1104	SR20226	2058	ST-12	1104
SPS2266	2010	SPS4052	2009	SPS4458A	2023	SR1EM-16	1114	SR60	1104	SR20234	2009	ST12	2010
SPS2269	2023	SPS4053	2009	SPS4459	2009	SR1EM-20	1114	SR-76	1104	SR50411-1	1104	ST13	2010
SPS2270	2009	SPS4054	2023	SPS4460	2023	SR1EM-X	1104	SR76	1104	SR63197	2023	ST-14	1104
SPS2271	2016	SPS4054A	2023	SPS4460A	2023	SR1FM	1104	SR-100	1145	SR7544	2009	ST14	2010
SPS2272	2023	SPS4055	2009	SPS4461	2030	SR1FM-1	1104	SR100	1104	SR100	1104	ST15	2010
SPS2274	2023	SPS4056	2023	SPS4472	2009	SR1FM2	1104	SR-101-1	1104	SR101-1	1104	ST16	1104
SPS2279	2023	SPS4056A	2023	SPS4473	2023	SR1FM-4	1104	SR101-1	1104	SR101-1	1104	ST17	1114
SPS2320	2010	SPS4059	2009	SPS4473A	2023	SR1FM4	1104	SR-101 2	1104	SR1EM-1	1104	ST18	2009
SPS2415	2009	SPS4060	2009	SPS4476	2009	SR1FM6	1104	SR101-2	1104	SR1EM-2	1104	ST25B	2009
SPS2425	2010	SPS4061	2009	SPS4478	2009	SR1FM-8	1104	SR105	1104	SR1EM-4	1104	ST25C	2009
SPS2664	2010	SPS4062	2009	SPS4480	2023	SR1FM8	1144	SR-112	1104	SR1K-2	1104	ST28A	2007
SPS3003	2010	SPS4063	2009	SPS4480A	2023	SR1FM10	1104	SR112	1104	SR1K-2	1104	ST-28B	2007
SPS3015	2009	SPS4064	2023	SPS4489	2023	SR1FM-12	1114	SR-114	1143	SR1K-8	1104	ST28B	2007
SPS3329	2023	SPS4064A	2023	SPS4489A	2023	SR1FM12	1104	SR114	1104	SR1K1	1104	ST-28C	2007
SPS3370	2010	SPS4066	2009	SPS4490	2030	SR1FM-16	1114	SR-120	1104	SR1K-2	1104	ST28C	2007
SPS3724	2023	SPS4067	2009	SPS4491	2009	SR1FM16	1114	SR120	1104	SR1FM-1	1104	ST29	2010
SPS3724A	2023	SPS4068	2010	SPS4493	2009	SR1FM-20	1114	SR-120-1	1104	S50001	2007	ST30	2010
SPS3735	2009	SPS4069	2009	SPS4494	2009	SR1FM20	1114	SR-130-1	1104	S50001A	2007	ST31	2010
SPS3751	2009	SPS4072	2023	SPS4495	2030	SR1FMA	1104	SR130-1	1104	S50001O	1104	ST32	2010
SPS3786	2023	SPS4072A	2023	SPS4498	2009	SR1K-0	1104	SR-131-1	1104	S50002	2007	ST33	2010
SPS3786A	2023	SPS4073	2023	SPS4610	2010	SR1K08	1104	SR131-1	1104	S50002A	2007	ST34	2010
SPS3787	2010	SPS4073A	2023	SPS4813	2023	SR-1K	1104	SR-132-1	1104	S50003A	2007	ST35	2010
SPS3900	2009	SPS4074	2009	SPS4814	2016	SR1K	1104	SR132-1	1141	S50004	2007	ST-37C	2007
SPS3907	2009	SPS-4075	2009	SPS4815	2023	SR1K/494	1104	SR135-1	1104	S50004	2007	ST37C	2007
SPS3908	2009	SPS4076	2009	SPS4920	2009	SR1K-1	1104	SR-136	1104	S50005	2007	ST-37D	2007
SPS3909	2009	SPS4076	2023	SPS4942	2009	SR1K1	1104	SR136	1104	S50005A	2007	ST37D	2007
SPS3912	2030	SPS4076A	2023	SPS5000	2009	SR1K-1K	1104	SR144	1104	S50007	1123	ST37E	2007
SPS3914	2030	SPS-4077	2030	SPS5006	2009	SR1K-2	1104	SR145	1104	S50008	1125	ST40	2010
SPS3915	2009	SPS4077	2009	SPS5006-1	2009	SR1K2	1104	SR150	1114	S50009	1104	ST41	2010
SPS3923	2009	SPS4078	2023	SPS5006-2	2009	SR1K-2	1104	SR-150-01	1104	S500010	1104	ST42	2010
SPS3924	2023	SPS4078A	2023	SPS5007	2023	SR1K2	1104	SR-150-1	1104	S50001	2007	ST43	2010
SPS3924A	2023	SPS4079	2010	SPS5007-1	2023	SR1K-2/494	1104	SR151	1104	S5-1	1104	ST44	2010
SPS3925	2009	SPS4080	2010	SPS5007-1A	2023	SR1K-2A	1114	SR152	1104	S51-145128	2009	ST45	2010
SPS3926	2069	SPS4081	2009	SPS5007-2	2023	SR1K-2B	1114	SR154	1114	S5-2N5062	1067	ST47	1114
SPS3927	2023	SPS4082	2023	SPS5007-2A	2023	SR1K-2C	1114	SR200	1104	S529A4	2023	ST50	2009
SPS3927A	2023	SPS4082A	2023	SPS5007A	2023	SR1K-2D	1104	SR200B	1104	S529A5	2023	ST51	2009
SPS3929	2010	SPS4083	2009	SPS5030	2023	SR1K-4	1104	SR205	1104	S5155	2007	ST53	2009
SPS3930	2009	SPS4084	2009	SPS5328	2007	SR1K-8	1104	SR210	1143	S5321	1104	ST54	2009
SPS3931	2023	SPS4085	2009	SPS5450	2061	SR1K8	1104	SR220	1143	S5322	1104	ST55	2009
SPS3931A	2023	SPS4086	2023	SPS5450S	2061	SR1K-12	1104	SR-390	1104	S5324	1104	ST56	2009
SPS3936	2009	SPS4086A	2023	SPS5457	2009	SR1K-16	1114	SR390	1104	S5334	1104	ST57	2009
SPS3937	2010	SPS4087	2023	SPS5458	2023	SR1K-20	1114	SR-401	1104	S5337	1104	ST58	2009
SPS3938	2009	SPS4087A	2023	SPS5569	2010	SR1K-Z	1104	SR401	1104	S5455	1104	ST59	2009
SPS3940	2009	SPS4088	2009	SPS5809	2030	SR1KZ	1104	SR405	1104	S51606	2028	ST60	2010
SPS3948	2010	SPS4089	2009	SPS6109	2023	SR1T	1104	SR475	1141	S51906	2023	ST61	2010
SPS3951	2009	SPS4090	2023	SPS6109A	2023	SR-1Z	1104	SR-499	1114	S51906A	2023	ST62	2010
SPS3952	2010	SPS4090A	2023	SPS6111	2009	SR1Z	1104	SR499	1114	S52308	2009	ST63	2009
SPS3957C	2009	SPS4091	2010	SPS6112	2009	SR-2	1104	SR500	1104	S52503	2023	ST64	2009
SPS3967	2009	SPS4095	2009	SPS6113	2009	SR2A-1	1104	SR500B	1104	S52503A	2023	ST70	2010
SPS3968	2010	SPS4143	2010	SPS6124	2030	SR2A1	1104	SR507	1143	S52504	2009	ST71	2010
SPS3971	2010	SPS4145	2010	SPS6155	2010	SR2A-2	1104	SR605	1104	S53694	2009	ST72	2010
SPS3972	2009	SPS4167	2010	SPS6571	2009	SR2A2	1104	SR806-126	1104	S54001AE	2401	ST80	2010
SPS3973	2009	SPS4160	2010	SPS6682	2010	SR2A-4	1104	SR-846-2	1104	S54011AE	2411	ST82	2010
SPS3907	2023	SPS4169	2009	SPS6953	2023	SR2A4	1104	SR846-2	1104	S54013AE	2413	ST-103	2007
SPS3908	2023	SPS4199	2009	SPS7359	2009	SR2A-8	1114	SR846-3	1104	S54023AE	2423	ST-122	2007
SPS3980A	2023	SPS4236	2009	SPS7652	2009	SR2A8	1104	SR851	1104	S54042	2016	ST-122	2007
SPS3990	2023	SPS4272	2016	SPT3713	2041	SR2A-12	1114	SR851-121	1104	S56724	2023	ST-123	2007
SPS3990A	2023	SPS4300	2030	SQ46	1123	SR2A12	1104	SR-851	1104	S59328	2009	ST-123	2007
SPS3999	2009	SPS4302	2023	SQD-2170	2009	SR2B12	1114	SR889	1104	S5A43	2023	ST-125	2007
SPS4000	2023	SPS4303	2009	SR-0005	1104	SR2B							

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ST-201	2030	ST47025	2010	SV02A	1104	SW4013	2413	SZ-150	564	T1S2E	2010	T130	2007
ST-213	2030	ST62180	2023	SV-05	1104	SW4017	2417	SZ150	564	T1XM05	2007	T143	2009
ST213	2030	ST801-02	1102	SV05	1104	SW4023	2423	SZ200	565	T1X-M14	2016	T151	1102
ST250	2009	ST8576	1102	SV-1R	1104	SW4049	2449	SZ200-5	565	T1X-M15	2016	T152	1102
ST251	2009	STDOL-02	1102	SV-3	1102	SWC	1114	SZ-200-8	562	T1XM15	2010	T153	1102
ST-301	2007	ST-BU208	2055	SV-3B	1102	SWD	1114	SZ200-8	562	T1X-M16	2016	T154	1102
ST301	2007	STC-1035	2041	SV-3C	1102	SWO.5A	1104	SZ-200-9	562	T1XM17	2010	T155	1102
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T1340A3K	2009	T2020	2007	T6032	2007	TA-7	2010	TA7199	2041	TC4011UBP	2411	TCG989	1720
T1340A3L	2009	T2021	2007	T6058	2007	TA7	2029	TA7200	2041	TC4013	2413	TCG992	1713
T1341A3K	2016	T2022	2007	T6565	2009	TA50	1104	TA7201	2041	TC4013B	2413	TCG1155	705
T1342	2007	T2024	2007	T7400B1	1801	TA78L	1770	TA7202	2641	TC4013BF	2413	TCG1232	703
T1346	2007	T2025	2007	T7400D1	1801	TA100	1104	TA7205	705	TC4013P	2413	TCG3007	026
T1352	2007	T2026	2007	T7400D2	1801	TA200	1104	TA7205A	705	TC4017BP	2417	TCG3012	033
T-1363	2007	T-2028	2007	T7401B1	1801	TA300	1104	TA7205AP	705	TC4017P	2417	TCG3024	019
T1363	2007	T2028	2007	T7401D1	1801	TA400	1104	TA7205AT	705	TC4023BP	2423	TCG4001B	2401
T-1364	2007	T-2029	2007	T7401D2	1801	TA500	1104	TA7205P	705	TC4023P	2423	TCG4011B	2411

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TCG5413	1067	TE1060	1104	TE4126	2023	TG25C1293-D-A	2059	T1365	2007	T18028	2009	TIS46	2009
TCG5414	1067	T-E1064	1104	TE4256	2016	TG25C1293A	2010	T1-365A	1171	T18038	2009	TIS47	2009
TCG5415	1020	TE1064	1114	TE4409	2009	TG25C1295	2055	T1385	2007	T1-806G	2009	TIS48	2009
TCG5452	1067	T-E1068	563	TE4424	2009	TG25C1295(O)	2055	T1386	2007	T1810B	2009	TIS49	2009
TCG5453	1067	TE1068	563	TE4951	2009	TG25C1295-0	2055	T1-387	2007	T1811G	2030	TIS50	2023
TCG5454	1067	T-E1077	563	TE4952	2009	TG25C1295-O-A	2055	T1387	2007	T1-890	2023	TIS51	2009
TCG5455	1067	TE1077	563	TE4953	2009	TG25C2057-D	2058	T1-388	2007	T1904	2009	TIS52	2009
TCG5456	1020	T-E1078	1104	TE4954	2009	TG25C2278	2061	T1388	2007	T1-905	2023	TIS53	2023
TCG5457	1020	TE1078	1104	TE5088	2016	TG-11	1104	T1-389	2007	T1-906	2023	TIS54	2023
TCG5473	1020	T-E1078A	1104	TE5089	2016	TG-12	1104	T1389	2007	T1-907	2009	TIS55	2009
TCG5511	1067	T-E1080	1104	TE5249	2016	TG12	1104	T1390	2007	T1907	2009	TIS56	2016
TCG5512	1020	TE1080	1104	TE5309	2016	TG20A	1104	T1391	2007	T1-908	2009	TIS57	2016
TCG5600	1001	T-E1088	1104	TE5309A	2009	TG-21	1104	T1393	2007	T1908	2009	TIS60	2016
TCG5601	1001	TE1088	1104	TE5310	2016	TG21	1104	T1395	2007	T13010	2007	TIS60A	2020
TCG5602	1001	T-E1089	1104	TE5311	2016	TG-22	1104	T1396	2007	T13011	2007	TIS60B	2020
TCG5603	1001	TE1089	1104	TE5311A	2009	TG22	1104	T1397	2007	T13015	2030	TIS60C	2030
TCG5604	1090	T-E1090	1104	TE5365	2023	TG-28	1123	T1398	2007	T1-3016	2010	TIS60D	2030
TCG5605	1000	TE1090	1104	TE5366	2023	TG-31	1104	T1399	2007	T13016	2010	TIS60E	2030
TCG5640	1001	T-E1097	1104	TE5368	2009	TG31	1104	T1-400	2007	T18003B	2009	TIS60M	2030
TCG5641	1001	TE1097	1104	TE5369	2009	TG-32	1104	T1400	2007	T164213	2030	TIS61	2023
TCG5642	1090	T-E1098	1102	TE5370	2009	TG32	1104	T1-401	2007	TIA-01	2007	TIS62	2009
TCG5650	1001	TE1098	1123	TE5371	2009	TG-41	1104	T1401	2007	TIA01	2007	TIS62	2010
TCG5651	1001	T-E1102	1104	TE5376	2009	TG41	1104	T1-402	2007	TIA02	2007	TIS62A	2010
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TCG5800	1141	TE1105	1123	TE5378	2023	TG42	1104	T1-403	2007	TIA04	2007	TIS63A	2010
TCG5801	1143	T-E1106	563	TE5379	2023	TG-48	1123	T1403	2007	TIA05	2007	TIS64	2010
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TCG5803	1144	TE1108	1104	TE5448	2023	TG51	1104	T1407	2010	TIA06	2009	TIS71	2009
TCG5804	1144	T-E1116	1123	TE5449	2009	TG-52	1104	T1-408	2016	TIA102	2009	TIS72	2009
TCG6409	2029	T-E1118	1102	TE5450	2009	TG52	1104	T1408	2010	TIC44	1067	TIS83	2009
TCG7400	1801	T-E1119	1102	TE5451	2009	TG-61	1104	T1-409	2016	TIC45	1067	TIS84	2008
TCG7401	1801	TE1121	1102	TEG0129	2016	TG61	1104	T1409	2010	TIC46	1067	TIS85	2010
TCG7404	1802	T-E1122	1114	TEH0147	2009	TG-62	1104	T1-410	2010	TIC47	1067	TIS86	2008
TCG7408	1822	T-E1124	1104	TF20	1104	TG62	1104	T1410	2010	TIC106A	1067	TIS87	2008
TCG7447	1805	T-E1127	1114	TF21	1104	T-G1138	1123	T1411	2009	TIC106B	1067	TIS89	2009
TCG7490	1808	T-E1133	1104	TF22	1104	T-G5033	2030	T1-412	2009	TIC106C	1020	TIS90	2009
TCG9226	1713	T-E1138	1104	TF23	1104	T-G5055	2030	T1-413	2009	TIC106F	1067	TIS90-2	2009
TC98	2023	T-E1140	563	TF-30	2007	TG80331	2009	T1-414	2009	TIC106Y	1067	TIS90-BLU	2061
TC99	2023	T-E1144	1104	TF30	2007	T-H15557	1104	T1-415	2016	TIL414	145	TIS90-GRN	2059
TC99B	2023	T-E1148	1104	TF34	1102	TH15557	1104	T1415	2009	TIA-01	2007	TIS90-GRY	2009
TCO2P112	1104	T-E1155	1104	TF44	1102	T-H15750	1124	T1-416	2016	TIA-10	2007	TIS90-VIO	2061
TCO914	2009	T-E1157	1104	TF44J	1102	TH-15750	1124	T1416	2009	TIA-11	2007	TIS90-YEL	2059
TCO.09AM22/1	1171	T-E1171	1104	TF49	2007	T-H25C313	2010	T1-417	2010	TIP/A	2020	TIS90M-BLU	2061
TD15-BL	1102	T-E1176	1104	TF-65	2007	T-H25C387	2010	T1417	2009	TIP4	2020	TIS90M-GRN	2059
TD100	2009	TE1420	2009	TF65	2007	T-H25C536	2009	T1-418	2016	TIP-14	2020	TIS90M-GRY	2009
TD102	2009	TE1990	2030	TF65/30	2007	TH25C536	2009	T1418	2009	TIP-24	2020	TIS90M-VIO	2009
TD200	2009	TE2349	2009	TF65/M	2007	TH25C693	2009	T1-419	2016	TIP-24	2020	TIS90M-YEL	2059
TD201	2009	TE2484	2010	TF65/S/30	2007	TH25C693	2009	T1419	2009	TIP-29	2020	TIS91	2023
TD202	2009	TE2711	2016	TF-66	2007	T-H25C715	2009	T1-420	2010	TIP29	2020	TIS91-BLU	2023
TD250	2009	TE2712	2016	TF66	2007	TH25C715	2009	T1420	2009	TIP29A	2020	TIS91-GRN	2023
TD400	2023	TE2713	2060	TF66/30	2007	TH50	1104	T1-421	2016	TIP29B	2020	TIS91M-GRY	2009
TD401	2023	TE2714	2060	TF66/60	2007	TH400	1104	T1-422	2009	TIP29C	2020	TIS91M-VIO	2023
TD402	2023	TE2715	2010	TF75	2007	TH600	1104	T1422	2009	TIP29XA	2020	TIS91M-YEL	2023
TD500	2023	TE2716	2010	TF77	2007	TH800	1114	T1-423	2009	TIP-30	2027	TIS92	2009
TD501	2023	TE2921	2016	TF-78	2009	TH801	1104	T1-424	2030	TIP30	2027	TIS92-B	2009
TD502	2023	TE2922	2016	TF80/302	2007	TH802	1104	T1424	2009	TIP30A	2027	TIS92-BLU	2009
TD550	2023	TE2923	2016	TF101-A	2030	TH803	1104	T1-425	2030	TIP30B	2027	TIS92-G	2009
TD1401	1801	TE2924	2016	TF101-B	2030	TH804	1104	T1-428	2023	TIP-31	2020	TIS92-GRN	2009
TD1401P	1801	TE2925	2016	TF101-D	2030	TH805	1104	T1-429	2023	TIP31	2017	TIS92-GRY	2009
TD2219	2009	TE2926	2016	TFR105	1114	TH806	1104	T1-430	2010	TIP31A	2020	TIS92-V	2009
TD2905	2023	TE3390	2016	TFR110	1114	TH808	1114	T1430	2009	TIP-31B	2020	TIS92-VIO	2009
TD3400A	1801	TE3391	2016	TFR-120	1104	TH810	1114	T1-431	2010	TIP31B	2020	TIS92-Y	2009
TD3400AP	1801	TE3391A	2016	TFR120	1104	TH1000	1114	T1431	2010	TIP32	2027	TIS92-YEL	2009
TD3400P	1801	TE3392	2016	TFR140	1114	TH7251	2020	T1-432	2009	TIP32A	2027	TIS92M	2030
TD3401A	1801	TE3393	2016	TG25A201	2007	TH-H25C313	2016	T1432	2009	TIP-41	2020	TIS92M-BLU	2861
TD3401AP	1801	TE3394	2016	TG25A20(C)	2007	THP501	2007	T1-433	2009	TIP41	2020	TIS92M-GRN	2059
TD3404A	1802	TE3395	2016	TG25A20-0	2007	THP502	2007	T1-474	2010	TIP41/B	2020	TIS92M-GRY	2009
TD3404AP	1802	TE3396	2016	TG25A20-1-N	2007	T-H56105	1104	T1-475	2030	TIP41/C	2020	TIS92M-VIO	2061
TD3447A	1805	TE3397	2016	TG25A20 C	2007	T-HSG105	1104	T1-480	2030	TIP-41A	2020	TIS92M-YEL	2059
TD3447AP	1805	TE3398	2016	TG25A60B	2023	THSG105	1104	T1480	2009	TIP41A	2020	TIS93	2023
TD3490A	1808	TE3414	2009	TG25A60C-D	2023	THU60U	2007	T1-481	2030	TIP-41B	2020	TIS93-B	2023
TD3490AP	1808	TE3415	2009	TG25A60E-D	2023	T11A6	2009	T1481	2030	TIP41B	2020	TIS93-BLU	2023
TD3496P	1808	TE3416	2030	TG25A60E-E	2023	T124A	2009	T1-482	2030	TIP-41C	2020	TIS93-G	2023
TD81515	1102	TE3605	2009	TG25A60FC	2023	T124B	2009	T1482	2030	TIP41C	2020	TIS93-GRN	2023
TD81518	1102	TE3605A	2009	TG25C65(Y)	2030	T125A	2010	T1-483	2030	TIP101	2048	TIS93-GRY	2023
TD960016-1M	1102	TE3606	2009	TG25C536	2016	T125B	2010	T1483	2030	TIP110	2048	TIS93-V	2023
DA1330P	1757	TE3606A	2009	TG25C536(C)	2016	T1-51	1102	T1-484	2030	TIP111	2048	TIS93-VIO	2023
DA1458D	038	TE3607	2009	TG25C536(E)	2016	T151	1102	T1484	2030	TIP112	2048	TIS93-YEL	2023
DA2002	703	TE3662	2016	TG25C536-D-A	2016	T152	1104	T1485	2009	TIP120	2048	TIS93M-BLU	2023
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T-E01029D	1104	TE3704	2009	TG25C536-E	2016	T153	1104	T1487	2020	TIP130	2048	TIS93M-VIO	2023
TE697	2009	TE3705	2009	TG25C536-E-A	2016	T154	1104	T1-490	2010	TIP131	2048	TIS93M-YEL	2023
TE706	2010	TE3707	2010	TG25C536-E-B	2016	T154A	2009	T1-492	2016	TIP132	2048	TIS-94	2016
TE1010	1104	TE3708	2010	TG25C536-F	2016	T154B	2009	T1492	2009	TIP41B	2020	TIS94	2009
T-E1011	1104	TE3709	2010	TG25C536-F-A	2016	T154C	2009	T1-493	2016	TIR01	1104	TIS94(AFAMP)	2009
TE-1011	1104	TE3710	2010	TG25C536-C	2016	T154D	2009	T1493	2009	TIR02	1104	TIS94(XSTR)	2009
TE1011	1104	TE3711	2010	TG25C536E	2016	T154E	2009	T1-494	2016	TIR03	1104	TIS-97	2016
T-E1014	1123	TE3843	2016	TG25C927	2016	T1-55	1104	T1494	2009	TIR04	1104	TIS97	2009
TE-1014	1123	TE3844	2016	TG25C927(C)	2016	T155	1104	T1-495	2010	TIR05	1104</		

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TIS129	2058	TJ60A	1104	TM85	1114	TM5021A	563	TNJ-60283	2007	TNT840	2010	TQ9	2010
TIS133	2009	TK5	1104	TM86	1114	TM5024A	564	TNJ60283	2007	TNT-841	2010	TQ53A	2023
TIS134	2009	TK-10	1104	TM100	2007	TM5404	1067	TNJ-60362	2007	TNT841	2010	TQ54A	2023
TIS137	2023	TK10	1104	TM102	2007	TM5414	1067	TNJ60362	2007	TNT842	2009	TQ61	2023
TIS412	2010	TK11	1104	TM102A	2007	TM5452	1067	TNJ-60363	2007	TNT-843	2009	TQ61A	2023
TIS991	2023	TK20	1104	TM104	1114	TM5454	1067	TNJ60363	2007	TNT843	2010	TQ62	2023
TIS992	2009	TK21	1104	TM105	1114	TM5455	1067	TNJ-60364	2007	TO-003	2007	TQ62A	2023
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TISA02	2007	TK23C	2007	TM108	2010	TM5802	1143	TNJ-60365	2007	TO-005	2007	TQ-64	2023
TI-UG-1888	1102	TK25A	2007	TM109	1123	TM5804	1144	TNJ60365	2007	TO-014	2007	TQ-G5020	2007
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TI-X92	2007	TK30	1104	TM116	1104	TMD03A	561	TNJ60450	2007	TO-040	2009	TQ-5022	2007
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TI-X804	2023	TK36C	2007	TM123A	2009	TMD10	563	TNJ60604	2010	TO1-104	2009	TQ5023	2007
TI-X805	2023	TK37C	2007	TM123AP	2009	TMD10A	563	TNJ-60605	2010	TO1-105	2009	TQ-5025	2007
TI-X876	2010	TK-40	1104	TM125	1114	TMD41	1104	TNJ60605	2010	TO-101	2007	TQ5025	2007
TI-X880	2010	TK40	2007	TM126	2007	TMD42	1104	TNJ-60606	2009	TO101	2007	TQ-5026	2007
TI-X890	2023	TK40A	2007	TM128	2030	TMD45	1104	TNJ60606	2010	TO-102	2007	TQ526	2007
TI-X891	2023	TK-40C	2007	TM130	2041	TMT696	2010	TNJ-60607	2009	TO102	2007	TQ5027	2007
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TI-X3016	2007	TK40CA	2007	TM135A	565	TMT839	2010	TNJ-60608	2007	TO103	2007	TQ-5032(PNP)	2007
TI-X3016A	2007	TK-41	1104	TM137	561	TMT840	2010	TNJ60608	2007	TO-104	2007	TQ-5034	2007
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TI-XA01	2007	TK41A	2007	TM139	562	TMT842	2010	TNJ60610	2007	TP20-0284	561	TQ5034	2007
TI-XA02	2007	TK-41C	2007	TM139A	562	TMT843	2010	TNJ-60611	2010	TP34	1123	TQ-5035	2007
TI-XA-03	2007	TK41C	2007	TM142	563	TMT-1543	2009	TNJ60611	2007	TP34A	1123	TQ5035	2007
TI-XA03	2007	TK42	2007	TM142A	563	TMT1543	2009	TNJ-60612	2009	TP101	1104	TQ-5038	2007
TI-XA-04	2007	TK42A	2007	TM145	564	TMT-2427	2010	TNJ-60728	2007	TP107	2009	TQ5038	2007
TI-XA04	2007	TK-42C	2007	TM145A	564	TMT2427	2010	TNJ60728	2007	TP107A	2009	TQ-5044(PNP)	2007
TI-XA-05	2007	TK42C	2007	TM152	2020	TN051690	2023	TNJ61217	2010	TP107B	2009	TQ-5049	2010
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TI-XM01	2007	TK50	1104	TM160	2007	TN25C945-Q	2059	TNJ61221	2007	TP109A	2009	TQ-5052	2009
TI-X-M02	2007	TK60	1104	TM161	2016	TN25C945-R	2016	TNJ61222	2007	TP109B	2009	TQ5052	2009
TI-XM02	2007	TK61	1104	TM164	2055	TN25C945-R	2059	TNJ61282	2007	TP201	1104	TQ-5053	2009
TI-X-M03	2007	TK82	2061	TM165	2055	TN25C1941	2061	TNJ61671(25C688)	2010	TP251A	2023	TQ-5053	2009
TI-XM03	2007	TK200A	2020	TM166	1171	TN53	2009	TNJ61672(RECT)	1104	TP252A	2023	TQ5083	2009
TI-X-M04	2007	TK201A	2020	TM168	1173	TN55	2009	TNJ61673(25B186)	2007	TP253A	2023	TQ-5053C	2009
TI-XM04	2007	TK250A	2061	TM172A	2050	TN56	2009	TNJ61679	2010	TP302	1104	TQ-5054	2009
TI-X-M05	2007	TK251A	2061	TM177	1102	TN59	2009	TNJ61729	2010	TP402	1104	TQ5054	2009
TI-XM05	2007	TK254A	2009	TM194	2061	TN60	2009	TNJ61730	2010	TP363	2023	TQ-5055	2010
TI-X-M06	2007	TK255A	2009	TM196	2020	TN61	2009	TNJ61731	2010	TP364A	2023	TQ-5055	2030
TI-XM06	2007	TK256A	2009	TM199	2016	TN62	2009	TNJ70478	2010	TP3645	2023	TQ5055	2030
TI-X-M07	2007	TK257A	2009	TM219	2043	TN63	2009	TNJ70478-1	2010	TP3702	2023	TQ-5060	2009
TI-XM07	2007	TK258A	2009	TM229	2058	TN64	2009	TNJ70479	2010	TP3703	2023	TQ5060	2009
TI-X-M08	2007	TK259A	2009	TM233	2059	TN80	2009	TNJ70479-1	2009	TP3704	2016	TQ5061	2007
TI-XM08	2007	TK264A	2009	TM234	2023	TN237	2009	TNJ70480	2010	TP3705	2016	TQ-5062(PNP)	2007
TI-XM10	2007	TK400	1104	TM238	2055	TN238	2009	TNJ70482	2030	TP3706	2016	TQ-5063	2030
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TI-XM11	2007	TK000	1114	TM242	2055	TN591	2007	TNJ70537	2009	TP3700	2059	TQ-5073	2016
TI-XM13	2007	TK1000	1114	TM261	2060	TN-3200	2016	TNJ70539	2009	TP3709	2059	TQ-5077	2023
TI-X-M14	2016	TK1228-001	2007	TM280	2041	TN3200	2007	TNJ70634	2007	TP3710	2059	TQ-5078	2059
TI-XM14	2007	TK1228-1001	2007	TM281	2043	TN-3903	2009	TNJ70635	2007	TP3711	2059	TQ-5079	2010
TI-X-M15	2016	TK1228-1002	2007	TM287	2061	TN3903	2009	TNJ70637	2009	TP4001	2401	TQ-5081	2030
TI-XM15	2007	TK1228-1003	2007	TM289	2059	TN-3904	2009	TNJ70638	2009	TP4001AN	2401	TQ5081	2030
TI-X-M16	2016	TK1228-1004	2007	TM290	2023	TN3904	2009	TNJ70639	2009	TP4001BN	2401	TQ-5083	2055
TI-XM16	2007	TK1228-1005	2007	TM291	2020	TN3905	2061	TNJ70640	2009	TP4011	2411	TQ-5084	2055
TI-X-M17	2007	TK1228-1006	2007	TM331	2020	TN3906	2061	TNJ70641	2007	TP4011AN	2411	TQ-5086	2016
TI-XM17	2007	TK1228-1007	2007	TM377	2020	TNC61688	2060	TNJ70691	2016	TP4011B	2411	TQ-5087	2023
TI-XM18	2007	TK1228-1008	2009	TM507	1101	TNC61689	2009	TNJ71034	2016	TP4011BN	2411	TQ-5093	2016
TI-XM19	2007	TK1228-1009	2009	TM519	1103	TNC61690	2023	TNJ71035	2030	TP4011BP	2411	TQ-5099	2030
TI-X-M101	2007	TK1228-1010	2009	TM552	1104	TNC61702	2009	TNJ71036	2009	TP4013	2413	TQ-5105	2041
TI-XM101	2007	TK1228-1011	2009	TM712	1759	TNC61703	2023	TNJ71037	2023	TP4013AN	2413	TQ-5106	2010
TI-XM103	2007	TK1228-1012	2009	TM740A	706	TNJ61672(RECT)	1104	TNJ71143	2016	TP4013BN	2413	TQPD3053	2030
TI-XM104	2007	TKF5	1104	TM747	1757	TNJ1034	2016	TNJ71173	2010	TP4017	2417	TQ-PD-3055	2041
TI-XM105	2007	TKF10	1104	TM778	038	TMJ1036	2030	TNJ71234	2030	TP4017AN	2417	TQSAO-222	2007
TI-XM106	2007	TKF20	1104	TM778A	038	TNJ1173	2016	TNJ71240	2007	TP4023	2423	TR0055	2023
TI-XM107	2007	TKF40	1104	TM823	1731	TNJ6172(25C722)	2010	TNJ71271	2016	TP4023AN	2423	TR0-2012	2007
TI-XM108	2007	TKF60	1104	TM824	1737	TNJ60963	2007	TNJ71277	2016	TP4049	2449	TR0-9010	1758
TI-X-M201	2007	TKF80	1114	TM832	1721	TNJ60964	2007	TNJ71498	2010	TP4067-409	1104	TR-01(PENNCREST)	2030
TI-XM-201	2007	TKF100	1114	TM833	1743	TNJ60965	2007	TNJ71629	2010	TP4067-410	2016	TR-01B	2010
TI-XM201	2007	TL084CN	1714	TM834	1712	TNJ-60066	2010	TNJ71773	2023	TP4067-411	2016	TR-01B(PENNCREST)	2010
TI-X-M202	2007	TL1	1104	TM923D	1740	TNJ60066	2010	TNJ71774	2023	TP4123	2009		2009
TI-XM202	2007	TL2	1104	TM941M	007	TNJ-60067	2007	TNJ71937	2010	TP4124	2009	TR-01C(PENNCREST)	2009
TI-X-M203	2007	TL11	1104	TM955M	1723	TNJ60067	2007	TNJ71963	2010	TP4125	2023		2009
TI-XM-203	2007	TL12	1104	TM960	1770	TNJ-60068	2007	TNJ71964	2016	TP4126	2023	TR-01E	2030
TI-XM203	2007	TL21	1104	TM961	1773	TNJ60068	2007	TNJ71965	2016	TP4257	2023	TR-01E(PENNCREST)	2030
TI-X-M204	2007	TL22	1104	TM966	1771	TNJ-60069	2007	TNJ72146	2055	TP4258	2023		2030
TI-XM204	2007	TL31	1104	TM968	1772	TNJ60069	2007	TNJ72148	2041	TP4275	2010	TR-02E	1104
TI-X-M205	2007	TL32	1104	TM978	1728	TNJ60069(25C74)	2010	TNJ72149	2055	TP5135	2009	TR-04	2007
TI-XM-205	2007	TL41	1104	TM987	1711	TNJ-60070	2007	TNJ72150	2016	TP5136	2009	TR04	2007
TI-XM205	2007	TL42	1104	TM989	1720	TNJ60070	2007	TNJ72151	2016	TP5142	2032	TR04C	2007
TI-X-M206	2007	TL51	1104	TM992	1713	TNJ-60071	2007	TNJ72154	2023	TP56512	2009	TR-05	2007
TI-XM-206	2007	TL61	1104	TM1155	705	TNJ60071							

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TV52	2030	TV24194	2007	TVM-EH2C	1104	TVS-25C538	2009	TVSCS1255H	2030	TV651R0D	1104	TX121	2023
TV-53	2009	TV24200	1104	TVM-EH2C11	1104	TVS25C538	2010	TVS-C51382	2023	TV651R20	1104	TX122	2023
TV53	2030	TV24203	2010	TVM-EH2C11/1	1104	TVS-25C538A	2009	TVS-C51382A	2023	TV651R80	1104	TX122-1	2023
TV-54	2059	TV24204	2010	TVM-EH2C11/1+12/1	1104	TVS25C538A	2009	TVSD1K	1104	TVSS3-2	1104	TX122-1A	2023
TV54	2016	TV24209	2016			TVS-25C562	2016	TVSDS2K	1104	TVSS3G4	1114	TX122-1A	2023
TV-55	2059	TV24210	2010	TVM-EH2C12/1	1104	TVS25C562	2016	TVS-DG-1N-R	1104	TVSS4C	1104	TX123	2040
TV55	2010	TV24214	2023	TVMH5151B	1104	TVS-25C563	2016	TVSDG1NR	1104	TVS-58-2C	1114	TX124	2030
TV-56	2009	TV24214	2023	TVMML00.09D1115	1104	TVS25C563	2016	TVS-DS-1K	1104	TVSS34RECT	1104	TX124-1	2030
TV56	2009	TV24215	2009	TVMML00.09M1115	1104	TVS-25C563A	2016	TVS-DS1K	1104	TVS-582	1124	TX124-1	2009
TV-57	2023	TV24216	2009	TVM-M204B	1104	TVS-25C564	2023	TVSDS1K	1104	TVSSA-2	1104	TX125	2023
TV57	2010	TV24221	1114	TVM-M204B	1104	TVS25C554	2023	TVS-DS-1M	1104	TVSSA-2B	1114	TX125-1	2009
TV57A	2009	TV24222	1104	TVM-PH9D22/1	1104	TVS25C554	2023	TVS-DS1M	1104	TVSSA2H	1104	TX125-1	2010
TV-58	2009	TV24224	1104	TVM-PH9D22/11	1104	TVS25C564-O	2023	TVS-DS-1M	1104	TVSSA2H	1114	TX125-1	2023
TV58	2010	TV24225	1114	TVM-PH9D22/1	1104	TVS25C564-O	2023	TVSDS1M	1114	TVSSA71B	2007	TX125-1A	2023
TV58A	2009	TV24229	2007	TVM-PT6D22/1	1171	TVS25C554R	2023	TVS-DS2K	1104	TVS-SH-20	1104	TX125	2030
TV-59	2030	TV24230	2007	TVM-PT6D22/1-3	1101	TVS-25C582	2030	TVSDS-2K	1114	TVS-SD-1	1104	TX125	2010
TV59	2030	TV-24232	1104	TVM-TC0.2P	1101	TVS-25C605A	2030	TVSDS2K	1114	TVS-SDIA	1104	TX126	2009
TV59A	2009	TV24232	1104	TVM-TC0.2P11/2	1104	TVS-25C605	2010	TVSDS2M	1104	TVSSDIA	1104	TX126	2030
TV-60	2009	TV24234	1104	TVM-TC0.2P	1101	TVS-25C605	2010	TVSEA01-07R	564	TVS-SD-1B	1114	TX140	2030
TV60	2010	TV-24237	1101	TVM-TC0.2P1	1101	TVS-25C644	2010	TVSEQA01-125	563	TVS-SD1B	1104	TX140	2030
TV60A	2009	TV24237	1101	TVR-06G	1104	TVS25C644	2009	TVSEQB01-12	563	TVSSD-1Y	1104	TX141	2009
TV-61	2007	TV24239	2007	TVR1G	1104	TVS-25C645	2010	TVSEQB01-15	564	TVSSD-14	1104	TX141	2010
TV-61A	2007	TV-24266	1104	TVS010D1	1104	TVS25C645	2010	TVSEQB01-15Z	564	TVS-SDB2	1124	TX142	1067
TV-62	2009	TV24266	1104	TVS-0A70	1123	TVS-25C645A	2010	TVSERB-06B	1104	TVS-SDB2A	1124	TX142	2023
TV62	2040	TV24278	1104	TVS0A70	1123	TVS25C645A	2010	TVSERCO510	1114	TVS-SDB2A	1124	TX142	2023
TV62(PHILCO)	2040	TV24281	2009	TVS-0A71	1144	TVS-25C645B	2010	TVSESA06	1104	TVSSF-1	1114	TX142-12	2009
TV-65	2009	TV24282	1104	TVS0A71	1104	TVS25C645B	2009	TVSESA06	1104	TVSSID30-15	1114	TX142	562
TV65	2009	TV24283	1104	TVS-0A81	1123	TVS-25C645C	2010	TVS-FR1-PC	1104	TVSSIRB0	1104	TX142	562
TV-66	2009	TV24285	1171	TVS-0A82G	1123	TVS25C645C	2010	TVS-FR1MD	1104	TVSSN7666N	1759	TX142	562
TV66	2009	TV24292	1104	TVS-0A90	1123	TVS25C647	2041	TVS-FR-1P	1104	TVSSN76664N	1759	TX142	562
TV-67	2030	TV24290	1104	TVS0A90	1123	TVS25C647-O	2055	TVSFR1P	1104	TVSSN7666-5	1759	TX142	562
TV67	2009	TV24313	2010	TVS-0A91	1123	TVS25C647-P	2055	TVS-FR-1P(FRIP)	1104	TVS-SN76665N	1759	TX120	2007
TV-68	2009	TV24351	2007	TVS0A91	1123	TVS25C647B	2055	TVS-FR1PC	1104	TVSSN76666N	1759	TX12	563
TV68	2009	TV24363	2023	TVS-0A95	1123	TVS25C647C	2055	TVSFR1PC	1104	TVS-SPN01	1104	TX12A	563
TV-70B	2030	TV24363A	2023	TVS1F5D-1	1104	TVS25C647D	2055	TVSFR2-06	1104	TVSSV02	1104	TX12B	563
TV71	2009	TV24370	2007	TVS-1N82G	1124	TVS25C647E	2055	TVS-FR-2M	1104	TVS-TC009M11/10	1104	TX12C	563
TV72	2023	TV24372	2009	TVS1N741A	563	TVS25C647Q	2055	TVS-FR2M	1104	TVS-TC009M21/3	1101	TX15	564
TV-77	2059	TV24378	1144	TVS1N741H	563	TVS25C647R	2055	TVS-FR-2PC	1104	TVS-TC0-09M21/3	1101	TX-13A	564
TV81	2059	TV24380	2010	TVS1N4002	1104	TVS-25C683	2016	TVS-FR2PC	1104	TVS-TC0-09M11/10	1104	TX15A	564
TV-84	2009	TV24382	2010	TVS1P20	1104	TVS25C683	2010	TVSFR2PC	1104	TVS-TC-0-09M21/3	1101	TX-15AB	564
TV84	2009	TV24303	2010	TVS1P80	1114	TVS-25C683V	2016	TVS-FR10	1114	TVS-TC0-09M21/3	1101	TX15B	564
TV-87	2023	TV24385	2010	TVS-1518	2010	TVS-25C684	2016	TVS-FT-1N	1114	TVS-TS18	2010	TX15C	564
TV87	2023	TV24387	2010	TVS-15750	1124	TVS25C684	2009	TVS-FT-1P	1104	TVSUC7MM12H2	1771	TX15C	564
TV-92	2009	TV-24399	2016	TVS15750	1124	TVS25C696	2030	TVSFT1P	1104	TVS-UFS0-1	1104	TX15C	564
TV92	2009	TV24399	2016	TVS15954	1102	TVS-25C762	2016	TVS-FT10	1114	TVSUFSD-1F	1144	TX15	2016
TV-93	2023	TV24436	2016	TVS-151211	1102	TVS25C762	2016	TVS-FU1N	1104	TVSUFSD1F	1104	TX15	2016
TV93	2023	TV24437	2016	TVS-151850	1104	TVS-25C828	2009	TVS-FU1N	1104	TVSUPC339C	1712	TX15	2023
TV105	2043	TV24430	2010	TVS1S1850	1104	TVS25C828	2009	TVS-FUIN	1104	TVSW04	1171	TX15	2023
TV110	2043	TV24453	2009	TVS-151893	1141	TVS25C828(Q)	2009	TVSGP2-354	1102	TVSW04M	1171	TX15	2023
TV-112	2020	TV24454	2009	TVS-151906	1104	TVS-25C828A	2009	TVSHFSD-1A	1104	TVSWF2	1104	TX1153	1102
TV112	2020	TV24458	2009	TVS1S1906	1104	TVS25C828A	2009	TVS-HFSD1Z	1104	TVS-ZB1-15	564	TX115	2009
TV-115	2020	TV24495	2023	TVS-151922	1141	TVS25C828P	2009	TVS-HF-SD-12	1104	TV3	1104	TX115	2009
TV115	2010	TV24495A	2023	TVS1S1922G	1104	TVS-25C828Q	2009	TVSHFSD12C	1104	TV4	1104	TX115	2009
TV-116	2020	TV24554	1102	TVS1S1926K	1124	TVS25C828Q	2010	TVS-HS7-1	1104	TV10	1104	TX160	2030
TV-117	2027	TV24571	2016	TVS1S1950	1104	TVS25C828R	2009	TVSIS104	1104	TV20	1104	TX160	2030
TV117	2020	TV24573	2010	TVS1S2076	1102	TVS25C829(B)	2009	TVSJA1200	2009	TV30	1104	TX162	2009
TV-118	2055	TV24574	2010	TVS-25C645A	2009	TVS25C829B	2009	TVSJA141A	1104	TV3B	1114	TX162	2009
TV-119	2055	TV24576	2009	TVS-25172F	2007	TVS25C920-Q	2010	TVSJA141AM	1104	TV40	1104	TX160	2023
TV-121	2055	TV24580	1104	TVS-25288A	2010	TVS-25C948	2016	TVS-KC2-LP	1104	TV50	1104	TX1701	2023
TV-124	2055	TV24586	1104	TVS-25A71B	2007	TVS25C968	2009	TVS-KC2CP12/1	1104	TV60	1104	TX163	2023
TV124	2055	TV24589	2010	TVS25A71B	2007	TVS25C1255	2030	TVS-KC2DP12-2	1104	TV-80	1114	TX173-1	565
TV-125	2055	TV24599	2007	TVS-25A103	2007	TVS25C1629A	2055	TVS-KC2DP12-1	1104	TV80	1114	TX173-1	565
TV1000	2010	TV24651	1141	TVS-25A171	2007	TVS25C5640	2023	TVSA1-02	1104	TV-100	1114	TX173	1102
TV2403	2010	TV24655	2009	TVS25A171	2007	TVS25D401	2020	TVSMA-26	1102	TV100	1104	TX173	1104
TV2404	2010	TV24684	2009	TVS-25A385	2007	TVS25D968	2020	TVSMA15RC	1104	TVV	1104	TX173	1114
TV2419	1104	TV24803	1104	TVS-25A385A	2007	TVS10D	1104	TVSM155C	1104	TX1N645	1104	TX173	1114
TV2428	2007	TV24806	2010	TVS-25A395L	2007	TVS10D1(PWR.RECT.)	1104	TVSMR1C	1114	TX1N647	1104	TX173	1114
TV2429	2007	TV24941	1104	TVS25A483	2023			TVSMR-1M	1114	TX1N3190	1104	TX173	1104
TV2434	2007	TV24942	1114	TVS-25A564	2023	TVS10D2	1104	TVSN76665	1759	TX1N3191	1104	TX173	1104
TV2455	2007	TV24945	2007	TVS25A564	2023	TVS-10D8	1114	TVS-OA70	1123	TX-100-1	2009	TX173	1104
TV2479	2007	TV24979	1104	TVS25A564-O	2023	TVS10D8	1114	TVSQA71	1104	TX100-4	2009	TX173	1104
TV-2496	1104	TV24984	2007	TVS-25A564A	2023	TVS10D8C4	1104	TVS-OA81	1102	TX-100-2	2009	TX173	1104
TV2496	1104	TV24985	1101	TVS25A564A	2023	TVS10DC4R	1104	TVS-OA90	1123	TX100-2	2009	TX173	1104
TV4152	2007	TV34232	1104	TVS25A564C	2023	TVS10E2	1104	TVS-OA90	1123	TX100-3	2009	TX173	1104
TV600	2007	TV241073	1104	TVS-25A564P	2023	TVS10E4	1104	TVS-OA1	1123	TX-100-4	2009	TX173	1104
TV24102	2010	TV241074	1104	TVS25A564P	2023	TVS25A103	2007	TVS-OA95	1102	TX100-4	2030	U6A723393	1740
TV24103	1124	TV241077	2009	TVS25A564PY	2023	TVS25B172	2007	TVS-OV-02	1104	TX101-9	2030	U7F065354	1759
TV24103A	1124	TV241078	2009	TVS25A564Q	2023	TVS25C208	2009	TVS-PC0P11/2	1104	TX101-9	2030	U9A723393	1740
TV24103B	1124	TVC-3	1104	TVS25A607	2023	TVS25C562	2009	TVS-PCD2P11/2	1104	TX-101-12	2009	U9C7065354	1759
TV24103C	1124	TVC3	1101	TVS25A609	2023	TVS25C645	2009	TVSPCD2P11/2	1104	TX101-12	2009	U9T7741393	007
TV24103D	1124	TVC-4	1101	TVS-25B171	2007	TVS30D1	1114	TVSQA01-07R	564	TX-109-1	2009	U19C	1104
TV-24104	1104	TVC5	1101	TVS25B171A	2007	TVS-82G	1124	TVSQA01-125	563	TX102-1	2009	U119	1114
TV24104	1104	TVCM-11	1759	TVS25B171B	2007	TVS-185D	1104	TVSQA01-158B	564				

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U1585H	2009	UP14044-46	2009	USFD-1	1104	V03-E	1114	V330	1141	VHSCR3AMZ08L1	1020	V5-25C324H	2069
U-2400-03	1104	UP14047-46	2009	USFD-1A	1104	V03C	1114	V331	1143	VHSCRAMZ08L1	1020	V52C324H	2009
U2400-03	1104	UP8201C	1801	UT11	1104	V03E	1114	V332	1143	VH556142G181E	1020	V5-25C371-R-1	2058
U2848-1	2009	UP8201D	1801	UT12	1143	V03G	1104	V334	1144	VH55FORIA411E	1067	V52C371-R-1	2016
U1303801	1104	UP8215C	1801	UT13	1143	V03O	1114	V405	2010	VH55FORIA411E	1067	V52C372-Y-1E	2059
UA78M05UC	1770	UP8215D	1801	UT14	1104	V05B	1114	V409	2020	VHV151209-1	1102	V52C373-Y-1E	2016
UA78M12	1771	UP8219C	1808	UT15	1104	V05E	1104	V410	2023	VL/BRJ	2007	V52C373-Y-1E	2016
UA78M12CKC	1771	UP8219D	1808	UT-16	1104	V06	1104	V410A	2023	VL18RJ	2007	V52C373-G-1	2016
UA78M12CKD	1771	UP8234C	1822	UT16	1104	V06(DIO)	1104	V415	2010	VM-30209	2009	V52C373-G-1	2016
UA78M12UC	1771	UP8234D	1822	UT17	1104	V06(RECT)	1104	V417	2010	VM30209	2009	V52C374-B-1	2016
UA78M15CKC	1772	UP8235D	1802	UT18	1104	V06-C	1104	V435	2010	VM-30241	2009	V52C383-W-1E	2016
UA78M15CKD	1772	UP82047D	1805	UT21	1104	V06-E	1114	V435A	2023	VM30241	2009	V5-25C385	2007
UA78M15UC	1772	UP87400C	1801	UT22	1104	V06-G	1114	V-442	1104	VM-30242	2009	V5-25C385L	2007
UA79N050AUC	1773	UP87404C	1802	UT23	1104	V06A	1104	V442	1104	VM30242	2009	V52C385L	2007
UA224DM	1711	UPB7447C	1805	UT24	1104	V06B	1114	V600	2030	VM-30244	2007	V52C394-0-1	2058
UA324DC	1711	UPC16C	1759	UT25	1104	V06BX4	1104	V653	2061	VM30244	2007	V52C394-0-1	2016
UA324PC	1711	UPC78M05	1770	UT26	1104	V06C	1104	V721	2023	VM-PHYD522/1	1104	V52C394-Y-1	2098
UA339ADC	1712	UPC78M12	1771	UT27	1104	V06C(POWER-RECTIFIER)	1104	V761	2023	VM-PH11D522/1	1104	V5-25C446	2016
UA348DC	1714	UPC78M12H2	1771	UT111	1104	V763	1104	V763	2023	VMPH11D522-1	1104	V52C454-B-1E	2059
UA555	1723	UPC143-05	1770	UT-112	1104	V06E	1104	V1112	1102	VM-PHY9522/1	1104	V52C454-C-1A	2059
UA555TC	1723	UPC177C	1712	UT112	1104	V06G	1114	V-1266	564	VM-TC02P11/2	1104	V52C454-C-1E	2059
UA556PC	1728	UPC324C	1711	UT113	1104	V07E	1104	V3074A20	1104	VM-TC02P11/2	1104	V52C454-C-3A	2059
UA723C(D.I.P.)	1740	UPC339C	1712	UT114	1104	V07G	1104	V3074A21	1104	VO1G	1101	V5-25C458	2009
UA723CA	1740	UPC741C	007	UT115	1104	V07J	1114	V-8634-3	1124	VO1G(EMERSON)	1101	V5-25C458	2009
UA723CJ	1740	UPC1458C	038	UT116	1104	V08E	1104	V8634-3	1124	VO3-C	1114	V52C458	2009
UA723CN	1740	UPC2002	703	UT117	1104	V08G	1104	V9446-4	1104	VO3-G	1114	V52C458-C-1E	2059
UA723DC	1740	UPC4001C	2401	UT118	1114	V08J	1114	V9646-4	1104	VO-3C	1114	V52C4608-1	2059
UA723HM	1740	UPC4558C	038	UT120	1114	V09-E(CENT.)	1101	V10158	1104	VO3C	1114	V5-25C466	2098
UA723ML	1740	UPC14305H	1770	UT211	1144	V09C	1104	V10916-1	1123	VO3G	1114	V5-25C538	2009
UA723PC	1740	UPC14312	1771	UT212	1144	V09E	1104	V-10916-3	1123	VO-5E	1104	V52C538	2009
UA741CP	007	UPC14312H	1771	UT213	1144	V09G	1104	V10916-3	1123	VO6-C	1104	V5-25C563	2010
UA741CV	007	UPC14315	1772	UT221	1104	V0G	1104	V11189-1	1104	VO6-G	1104	V5-25C645	2010
UA741TC	007	UPC14315D	1772	UT222	1104	V6/2R	2007	V15920	1104	VO-6A	1104	V5-25C645A	2010
UA1458CP	038	UPC14315H	1772	UT223	1104	V6/2RC	2007	V50260-10	1102	VO6A	1144	V52C645A	2009
UA1458CTC	030	UPD4001C	2401	UT224	1104	V6/2RJ	2007	V50260-16	1123	VO-6B	1144	V5-25C645B	2009
UA1458P	038	UPD4011C	2411	UT225	1104	V6/4R	2007	V50260-36	1102	VO6B	1104	V5-25C645C	2009
UA1458TC	038	UPD4013C	2413	UT226	1104	V6/4RC	2007	VAMV-1	1104	VO-6C	1104	V5-25C683	2016
UA2002	703	UPD4017C	2417	UT227	1104	V6/4RJ	2007	VAR	1102	VO6C	1104	V5-25C683Y	2098
UA2901PC	1712	UPD4023C	2423	UT228	1104	V6/8R	2007	VAR-1R2	1102	VO-6C-401	1144	V5-25C684	2010
UA2902	1711	UPD4049C	2449	UT229	1104	V6/8RJ	2007	VARIST-5	1104	VO9-E	1144	V52C684	2010
UA3065	1759	UPD4066C	2466	UT231	1104	V6/RC	2007	V8-11	1104	VOG	1104	V52C717-1/1-1	2016
UA3065PC	1759	UPD4066G	2466	UT232	1104	V6C	1104	V811	2007	VR9B	562	V52C732-VIF	2016
UA3301P	1713	UPI706	2009	UT233	1104	V10/1S	2007	VR9.1	562	VR9.1	562	V52C732-VIF	2009
UA3401PC	1713	UPI706A	2009	UT-234	1104	V10/1SJ	2007	VR9.1A	562	VR9.1A	562	V52C733B-1	2016
UA4558T	038	UPI706B	2009	UT234	1143	V10/2S	2007	VR9.1B	562	VR9.1B	562	V52C735-Y-1	2059
UA7500A	1770	UPI718A	2009	UT235	1144	V10/2SJ	2007	VR12	563	VR12	563	V52C735Y-1	2059
UA7805A	1770	UPI956	2030	UT236	1143	V10/1SA	2007	VR12A	563	VR12A	563	V5-25C762	2010
UA7805C	1770	UPI1301	2007	UT-238	1104	V10/1SA18	2007	VR12B	563	VR12B	563	V52C784-R1F	2098
UA7805UC	1770	UPI1303	2007	UT242	1143	V10/2S	2007	VR-14	564	VR-14	564	V52C784R1F	2098
UA7812C	1771	UPI1305	2007	UT244	1144	V10/2SJ	2007	VR15	564	VR15	564	V52C945LX-1	2016
UA7812CKC	1771	UPI1307	2007	UT249	1143	V10/30A	2007	VR15A	564	VR15A	564	V52C945LP-1	2016
UA7812UC	1771	UPI1309	2007	UT251	1143	V10/30A18	2007	VR15B	564	VR15B	564	V52C1172-1E	2055
UA7815C	1772	UPI1347	2007	UT252	1143	V10/50A	2007	V5-0A70	1123	V5-0A70	1123	V52C1173-Y-3	2020
UA7815CKC	1772	UPI1352	2007	UT254	1144	V10/50A18	2007	VS-1	1104	VS-1	1104	V52C1174-1E	2055
UA7815CU	1772	UPI1353	2007	UT261	1143	V11N	1104	VS1	1104	VS1	1104	V52C1174-1E	2055
UA7815UC	1772	UPI1613	2030	UT262	1143	V13/11	2007	VS-1N82AG	1124	VS-1N82AG	1124	V52C1213-C-1A	2059
UA7905C	1773	UPI1711	2030	UT264	1144	V15/20R	2007	VS2A7185	1104	VS2A7185	1104	V52C1213AC-1A	2059
UA7905UC	1773	UPI2217	2030	UT345	1114	V15C200/80-V4	1104	VS-25A71	1123	VS-25A71	1123	V52C1335D-1	2016
UBFY11	2010	UPI2218	2030	UT2005	1141	V15C200/80-VF	1104	VS-25A71B	1123	VS-25A71B	1123	V52C1335D-1E	2016
UC78M12H2	1771	UPI2222	2009	UT2010	1143	V17L	1104	VS2A71B	1123	VS2A71B	1123	V52C1335D/1	2016
UC547C	2009	UPI2222B	2009	UT2020	1143	V19	1104	VD1150M	1102	VS-25A71B5	2007	V52C1627A	2030
UC1100	2023	UPI2222P	2009	UT2040	1144	V19C	1104	VD-121C	1104	VS2A71B5	2007	V52C1627Y	2030
UC1100A	2023	UPI4046	2009	UT2080	1114	V19E	1104	VD1127	1102	VS-25A103	2007	V52C1674L-1	2058
UC9733	1771	UPI4046-46	2009	UT3005	1141	V50A260-36	1123	VD-5-7-013626-001	1103	VS2A103	2007	V52C1675M-1	2058
UD5B	1114	UPI4047-46	2009	UT3010	1143	V50A260-36(GE-DIO)	1123	VE18	1173	VS-25A208A	2009	V52C1681G-1E	2016
UES-A56F	220	UPT111	2030	UT3020	1143	V50A260-36(SI DIO)	1123	VE27	1173	VS-25A358	2007	V52C1841-E-1	2009
UF-01	1104	UPT112	2030	UT3040	1144			VE28	1173	VS-25A378	2007	V52C1855-1/1	2010
UF01	2007	UPT113	2030	UZ1-5.1	565	V51	2007	VE47	1173	VS2A378	2007	V52C1890A-1E	2016
UF-2	1104	UPT533	2055	UZ1-6.2	561	V58	2007	VE48	1173	VS-25A379	2007	V52C1890AD-1	2061
UF2	1104	UPT534	2055	UZ1-9.1	561	V66	1104	VFA-2745C	1104	VS2A379	2007	V52C1959Y-1E	2009
UF-SD1	1123	UPT535	2055	UZ1-12	563	V74	1123	VFA-2745D	1104	VS-25A385	2007	V52C1983-1	2020
UFSD-1	1104	UR005	1104	UZ1-15	564	V75	1123	VFQ-2745F	2007	VS2A385	2007	V52C2037K-1E	2061
UFSD-1A	1104	UR110	1104	UZ5.1	565	V115	2007	VFQ2745F	2007	VS-25A385L	2007	V52C2303-1E	2061
UFSD-1B	1114	UR115	1104	UZ5.1B	565	V117	1123	VFQ2745F	2007	VS2A495-0-1E	2023	V52C2402-1/1	2061
UFSD1F	1104	UR120	1104	UZ9.1	562	V118	2010	VFSK	2007	VS2A495-0-1E	2023	V52C2610K-1E	2061
UFSD-18	1114	UR125	1104	UZ9.1B	562	V119	2009	VFS-2745	2007	VS2A495-Y-1E	2023	V52D227V-1	2009
UG1888	1102	UR205	1141	UZ-12B	563	V120	2007	VFS-2745J	2007	VS2A495-0-1E	2023	V52D467-C-1	2059
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ULN2165A	1759	UR220	1143	UZ-15C	564	V126	564	VFW2745D	2007	VS2A562-Y-1E	2023	V52D478-YL2E	2020
ULN2165N	1759	UR225	1144	UZ-15D	562	V129	2010	VFW-27450	2007	VS2A673-C-1A	2023	V52D478-YL2E	2020
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ULN2280B	706	US7051A	565	UZ8712	563	V135	1123	VFY2745E	2007	VS2A854-Q-1E	2023	V52D478YL2E	2020
ULN2280N	706	US7120B	563	UZ8715	564	V139	2030	VHDI1N34A-1/1-1	1123	VS-25B171	2007	V52D666-C-1	2061
ULN2280P	706	US7150	564	UZ8809	562	V143	2010	VHDI1N34A-1/1-1	1123	VS2B171	2007	V52D666A-C1A	2061

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WH-028B	542	WJ-065B	551	WL-063C	561	WN-063	561	WP-052A	565	WR011	1171	WS-080D	562
WH-028C	542	WJ-065C	551	WL-063D	561	WN-063A	561	WP-052B	565	WR-013	1104	WS-090	562
WH-028D	542	WJ-065D	551	WL-065	561	WN-063D	561	WP-052C	565	WR013	1104	WS-090A	562
WH-029	542	WJ-065E	552	WL-065A	561	WN-063C	561	WP-052D	565	WR-030	1141	WS-090B	562
WH-091A	542	WJ-080A	562	WL-065B	561	WN-063D	561	WP-061	561	WR030	1171	WS-090C	562
WH-091B	542	WJ-080B	562	WL-065C	561	WN-065	561	WP-061A	561	WR-040	1141	WS-090D	562
WH-091C	542	WJ-080C	562	WL-065D	561	WN-055A	561	WP-061B	561	WR040	1171	WS-092	562
WH-091D	542	WJ-080D	562	WL-088	562	WN-065B	561	WP-061C	561	WR-050	565	WS-092A	562
WH-092	542	WJ-090	562	WL-088A	562	WN-065C	561	WP-061D	561	WR-050A	565	WS-092B	562
WH-092A	542	WJ-090A	552	WL-088B	552	WN-065D	561	WP-063	561	WR-050B	565	WS-092C	562
WH-092B	542	WJ-090B	552	WL-088C	552	WN-080	562	WP-063A	561	WR-050C	565	WS-092D	562
WH-092C	542	WJ-090C	552	WL-088D	552	WN-080A	562	WP-063B	561	WR-050D	565	WS-094	562
WH-092D	542	WJ-090D	552	WL-090	562	WN-080B	562	WP-053C	561	WR-052	565	WS-094A	562
WH-093	542	WJ-092	562	WL-090A	562	WN-080C	562	WP-053D	561	WR-052A	565	WS-094B	562
WH-094	542	WJ-092A	562	WL-090B	562	WN-088D	562	WP-065	561	WR-052B	565	WS-094C	562
WH-094B	542	WJ-092B	562	WL-090C	562	WN-090	562	WP-065A	561	WR-052C	565	WS-094D	562
WH-094C	542	WJ-092C	562	WL-090D	562	WN-090A	562	WP-065B	561	WR-052D	565	WS100	1102
WH-094D	542	WJ-092D	562	WL-092	562	WN-090B	562	WP-055C	561	WR-061	561	WS100A	1102
WH-120	542	WJ-094	562	WL-092A	562	WN-090C	562	WP-065D	561	WR-061A	561	WS100B	1102
WH-120A	542	WJ-094A	562	WL-092B	562	WN-090D	562	WP-088	562	WR-061B	561	WS100C	1102
WH-120B	542	WJ-094B	562	WL-092C	562	WN-092	562	WP-088A	562	WR-061C	561	WS-120	563
WH-120C	542	WJ-094C	562	WL-092D	562	WN-092A	562	WP-088B	562	WR-061D	561	WS-120A	563
WH-120D	542	WJ-094D	562	WL-094	562	WN-092B	562	WP-088C	562	WR-063	561	WS-120B	563
WH-150	542	WJ-120	563	WL-094A	562	WN-092C	562	WP-088D	562	WR-053A	561	WS-120C	563
WH-150A	542	WJ-120A	563	WL-094B	562	WN-092D	562	WP-090	562	WR-043B	561	WS-120D	563
WH-150B	542	WJ-120B	563	WL-094C	562	WN-094	562	WP-090A	562	WR-043C	561	WS-150	564
WH-150C	542	WJ-120C	563	WL-094D	562	WN-094A	562	WP-090B	562	WR-043D	561	WS-150A	564
WH-150D	542	WJ-120D	563	WL-120	563	WN-094B	562	WP-090C	562	WR-065	561	WS-150B	564
WH1012	1102	WJ-150	564	WL-120A	563	WN-094C	562	WP-090D	562	WR-065A	561	WS-150C	564
WI-030	542	WJ-150A	564	WL-120B	563	WN-094D	562	WP-092	562	WR-065B	561	WS-150D	564
WI-030A	542	WJ-150B	564	WL-120C	563	WN-120	563	WP-092A	562	WR-055C	561	WS200	1102
WI-030B	542	WJ-150C	564	WL-120D	563	WN-120A	563	WP-092B	562	WR-065D	561	WS200A	1102
WI-030C	542	WJ-150D	564	WL-150	564	WN-120B	563	WP-092C	562	WR-088	562	WS200B	1102
WI-030D	542	WJ-030	565	WL-150A	564	WN-120C	563	WP-092D	562	WR-080A	562	WS200C	1102
WI-032	542	WJ-030A	565	WL-150B	564	WN-120D	563	WP-094	562	WR-080B	562	WS200D	1102
WI-052A	542	WJ-050B	565	WL-150C	564	WN-150	564	WP-094A	562	WR-088C	562	WS300A	1102
WI-052B	542	WJ-050C	565	WL-150D	564	WN-150A	564	WP-094B	562	WR-088D	562	WS300B	1102
WI-052C	542	WJ-050D	565	WM-050	565	WN-150B	564	WP-094C	562	WR-090	562	WS300C	1102
WI-052D	542	WJ-052	565	WM-050A	565	WN-150C	564	WP-094D	562	WR-090A	562	WS0002C	1102
WI-061	542	WJ-061A	565	WM-050B	565	WN-150D	564	WP-120	563	WR-050B	562	WT-050	565
WI-061A	542	WJ-061B	565	WM-050C	565	WO-050	565	WP-120A	563	WR-090C	562	WT-050A	565
WI-061B	542	WJ-061C	565	WM-050D	565	WO-050A	565	WP-120B	563	WR-090D	562	WT-050B	565
WI-061C	542	WJ-061D	565	WM-052	565	WO-050B	565	WP-120C	563	WR-092	562	WT-050C	565
WI-061D	542	WJ-061E	561	WM-052A	565	WO-050C	565	WP-120D	563	WR-092A	562	WT-050D	565
WI-063	542	WJ-061A	561	WM-052B	565	WO-050D	565	WP-150	564	WR-092B	562	WT-052	565
WI-063A	542	WJ-061B	561	WM-052C	565	WO-052	565	WP-150A	564	WR-092C	562	WT-052A	565
WI-063B	542	WJ-061C	561	WM-052D	565	WO-052A	565	WP-150B	564	WR-092D	562	WT-052B	565
WI-063C	542	WJ-061D	561	WM-061	561	WO-052B	565	WP-150C	564	WR-094	562	WT-052C	565
WI-063D	542	WJ-061E	561	WM-061A	561	WO-052C	565	WP-150D	564	WR-094A	562	WT-052D	565
WI-063E	542	WJ-061A	561	WM-061B	561	WO-052D	565	WQ-050	565	WR-094B	562	WT-061	561
WI-063F	542	WJ-061B	561	WM-061C	561	WO-061	561	WQ-050A	565	WR-094C	562	WT-061A	561
WI-063G	542	WJ-061C	561	WM-061D	561	WO-051A	561	WQ-050B	565	WR-094D	562	WT-061B	561
WI-063H	542	WJ-061D	561	WM-063	561	WO-061B	561	WQ-050C	565	WR1	1114	WT-061C	561
WI-063I	542	WJ-061E	561	WM-063A	561	WO-061C	561	WQ-050D	565	WR2	1114	WT-061D	561
WI-063J	542	WJ-061A	561	WM-063B	561	WO-061D	561	WQ-052	565	WR100	1104	WT-063	561
WI-063K	542	WJ-061B	561	WM-063C	561	WO-063	561	WQ-052A	565	WR-120	563	WT-063A	561
WI-063L	542	WJ-061C	561	WM-063D	561	WO-063A	561	WQ-052B	565	WR-120A	563	WT-063B	561
WI-063M	542	WJ-061D	561	WM-065	561	WO-063B	561	WQ-052C	565	WR-120B	563	WT-063C	561
WI-063N	542	WJ-061E	561	WM-065A	561	WO-063C	561	WQ-052D	565	WR-120C	563	WT-063D	561
WI-063O	542	WJ-061A	561	WM-065D	561	WO-063D	561	WQ-061	561	WR-120D	563	WT-065	561
WI-063P	542	WJ-061B	561	WM-065C	561	WO-065	561	WQ-051A	561	WR-150	564	WT-065A	561
WI-063Q	542	WJ-061C	561	WM-065D	561	WO-065A	561	WQ-061B	561	WR-150A	564	WT-065B	561
WI-063R	542	WJ-061D	561	WM-068	562	WO-065B	561	WQ-051C	561	WR-150B	564	WT-065C	561
WI-063S	542	WJ-061E	561	WM-068A	562	WO-065C	561	WQ-051D	561	WR-150C	564	WT-065D	561
WI-063T	542	WJ-061A	561	WM-068B	562	WO-065D	561	WQ-053	561	WR-150D	564	WT-088	562
WI-063U	542	WJ-061B	561	WM-068C	562	WO-068	562	WQ-063A	561	WR-200	1104	WT-088A	562
WI-063V	542	WJ-061C	561	WM-068D	562	WO-088A	562	WQ-063B	561	WR200	1104	WT-088B	562
WI-063W	542	WJ-061D	561	WM-090	562	WO-088B	562	WQ-063C	561	WR300	1104	WT-088C	562
WI-063X	542	WJ-061E	561	WM-090A	562	WO-088C	562	WQ-063D	561	WR400	1104	WT-088D	562
WI-094	542	WJ-094A	562	WM-090B	562	WO-088D	562	WQ-065	561	WRE-981	1104	WT-090	562
WI-094A	542	WJ-094B	562	WM-092B	562	WO-090	562	WQ-065A	561	WRE981	1104	WT-090A	562
WI-094B	542	WJ-094C	562	WM-092C	562	WO-090A	562	WQ-065B	561	WRR1952	2009	WT-090B	562
WI-094C	542	WJ-094D	562	WM-092D	562	WO-090B	562	WQ-065C	561	WRR1953	2009	WT-090C	562
WI-094D	542	WJ-094E	562	WM-092E	562	WO-090C	562	WQ-065D	561	WRR1954	2009	WT-090D	562
WI-120	542	WJ-094A	562	WM-092B	562	WO-090D	562	WQ-088	562	WRR1955	1144	WT-092	562
WI-120A	542	WJ-094B	562	WM-092C	562	WO-092	562	WQ-088A	562	WRR1956	1144	WT-092A	562
WI-120B	542	WJ-094C	562	WM-092D	562	WO-092A	562	WQ-088B	562	WRT1114	2007	WT-092B	562
WI-120C	542	WJ-094D	562	WM-094A	562	WO-092B	562	WQ-088C	562	WS-050	565	WT-092C	562
WI-120D	542	WJ-094E	562	WM-094B	562	WO-092C	562	WQ-088D	562	WS-050A	565	WT-092D	562
WI-150	542	WJ-120A	563	WM-094C	562	WO-092D	562	WQ-090	562	WS-050B	565	WT-094	562
WI-150A	542	WJ-120B	563	WM-094D	562	WO-094	562	WQ-090A	562	WS-050C	565	WT-094A	562
WI-150B	542	WJ-120C	563	WM-120	563	WO-094A	562	WQ-090B	562	WS-050D	565	WT-094B	562
WI-150C	542	WJ-120D	563	WM-120A	563	WO-094B	562	WQ-090C	562	WS-052	565	WT-094C	562
WI-150D	542	WJ-120E	564	WM-120B	563	WO-094C	562	WQ-090D	562	WS-052A	565	WT-094D	562
WI-150E	542	WJ-120F	564	WM-120C	563	WO-094D	562	WQ-092	562	WS-052B	565	WT16X8	1101
WI-150F	542	WJ-120G	564	WM-120D	563	WO-6A	1104	WQ-092A	562	WS-052C	565	WT-16X9	1101
WI-150G	542	WJ-120H	564	WM-150	564	WO6A	1114	WQ-092B	562	WS-052D	565	WT16X9	1101
WI													

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WTV20VHG	2007	WV-088D	562	WX-088	562	WZ-90	562	XB38	2007	Y56601-47	2030	Z1B15	564
WTV20VMG	2007	WV-090	562	WX-088A	562	WZ-120	562	XB38B	2007	Y56601-48	2023	Z1C4.7	565
WTV30VHG	2007	WV-090A	562	WX-088B	562	WZ120	563	XB3C	2007	Y56601-49	2009	Z1C5.1	565
WTV30VLG	2007	WV-090B	562	WX-088C	562	WZ-145	564	XB3C-1	2007	Y56601-50	2023	Z1C5.6	565
WTV30VMG	2007	WV-090C	562	WX-088D	562	WZ-160	564	XB4-1	2007	Y56601-51	2009	Z1C6.2	561
WTVAT6	2007	WV-090D	562	WX-090	562	WZ150	564	XB8	2007	Y56601-63	2023	Z1C12	563
WTVAT6A	2007	WV-092	562	WX-090A	562	WZ252	565	XB9	2007	Y56601-73	2009	Z1C-15	564
WTVB5	2007	WV-092A	562	WX-090B	562	WZ535	563	XB10	2007	Y56601-74	2023	Z1C15	564
WTVB8A	2007	WV-092B	562	WX-090C	562	WZ-538	564	XB12	2030	Y56601-75	2009	Z1D4.7	565
WTVB6	2007	WV-092C	562	WX-090D	562	WZ538	564	XB13	2007	Y56601-79	2023	Z1D5.1	565
WTVB6A	2007	WV-092D	562	WX-092	562	WZ905	565	XB102	2007	Y56601-80	2009	Z1D6.2	561
WTVBA6	2007	WV-094	562	WX-092A	562	WZ917	563	XB103	2007	Y56601-82	2023	Z1D12	563
WTVBA6A	2007	WV-094A	562	WX-092B	562	WZ-920	564	XB104	2007	Y56601-84	2023	Z1D-15	564
WTVBE6	2007	WV-094B	562	WX-092C	562	WZ920	564	XB112	2007	Y56601-86-AD	2009	Z1D15	564
WTVBE6A	2007	WV-094C	562	WX-092D	562	WZ-061	561	XB113	2007	Y56601-86-AH(GREEN)	2009	Z2A51F	565
WTV-BMC	2007	WV-094D	562	WX-094	562	X092	562	XB114	2007	Y56601-86-AH(ORANGE)	2009	Z2A62F	561
WU-050	565	WV-120	563	WX-094A	562	X1-548	2041	XB152	564	Y56601-86-AH(YELLOW)	2009	Z2A91F	562
WU-050A	565	WV-120A	563	WX-094B	562	X1C1644	2007	XB404	2020		2009	Z2A120F	563
WU-050B	565	WV-120B	563	WX-094C	562	X5A6A	1104	XB408	2020		2009	Z2A-150F	564
WU-050C	565	WV-120C	563	WX-094D	562	X10G1829	2009	XB476	2020		2009	Z2A150F	564
WU-050D	565	WV-120D	563	WX-6	1123	X16	1123	XC101	2007	Y56601-93	2009	Z4B5.1	565
WU-052	565	WV-050	565	WX-120	563	X16A545-7	1069	XC121	2007	Y13310137	2058	Z4B9.1	562
WU-052A	565	WV-050A	565	WX-120A	563	X16A193B	2009	XC131	2007	Y13310138	2010	Z4B12	563
WU-052B	565	WV-050B	565	WX-120B	563	X16E3860	2009	XC161	2007	Y13310139	2023	Z4B-15	564
WU-052C	565	WV-050C	565	WX-120C	563	X16E3960	2009	XC171	2007	Y13310147	1104	Z4B15	564
WU-052D	565	WV-050D	565	WX-120D	563	X16N1485	2009	XC371	2010	Y15310157	1759	Z4MW333	2009
WU-056D	561	WV-052	565	WX-150	564	X18	1123	XC372	2009	Y133101310	2016	Z4X5.1A	565
WU-061	561	WV-052A	565	WX-150A	564	X29A829	2023	XC373	2009	Y133101318	2020	Z4X5.1B	565
WU-061A	561	WV-052B	565	WX-150B	564	X32A1389	2023	XC374	2009	Y133101321	2010	Z4X9.1	562
WU-061B	561	WV-052C	565	WX-150C	564	X32C4211	2009	XC723	2041	Y133101327	2061	Z4X12	563
WU-061C	561	WV-052D	565	WX-150D	564	X32C4293	2007	XC-8491	035	Y133101328	2059	Z4X-15	564
WU-061D	561	WV-061	561	WY-050	565	X32C4296	2009	XEJ040017	2009	Y133101363	2059	Z4X15	564
WU-063	561	WV-061A	561	WY-050A	565	X32C5099	2030	XF-140217	2007	Y133101411	1102	Z4XL6.2	561
WU-063A	561	WV-061B	561	WY-050B	565	X32C5111	2030	XG1	2007	Y133101412	1123	Z4XL6.2B	561
WU-063B	561	WV-061C	561	WY-050C	565	X32C5198	2009	XG2	2007	Y133101414	565	Z4XL9.1	562
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WU-063D	561	WV-063	561	WY-052	565	X32D5422	2009	XG5	2007	YAAD004	1104	Z4XL12	563
WU-065	561	WV-063A	561	WY-052A	565	X32M5026	2009	XG6	2007	YAAD007	1104	Z4XL128	563
WU065A	561	WV-063B	561	WY-052B	565	X32P5660	2010	XG10	2007	YAAD009	1123	Z5B2	563
WU-065B	561	WV-063C	561	WY-052C	565	X34E1226	2023	XG11	2007	YAAD018	1102	Z5B5.1	565
WU-065C	561	WV-063D	561	WY-052D	565	X34E2111	2009	XG12	2007	YAAD019	1104	Z5B6.2	561
WU-065D	561	WV-065	561	WY-061	561	X42	2007	XG24	2007	YAAD020	1104	Z5B9.1	562
WU-088	562	WV-065A	561	WY-061A	561	X44C358	2020	XG30	2009	YAAD022	1104	Z5B12	564
WU-088A	562	WV-065B	561	WY-061B	561	X45C359	2027	XI-548	2041	YBAD909	1104	Z5B-15	563
WU-088B	562	WV-065C	561	WY-061C	561	X45C-H06	2007	XI13	2007	YCO2P11/2	1114	Z5B15	564
WU-088C	562	WV-065D	561	WY-061D	561	X72A42416	1102	XI13-1	2007	YD1121	1102	Z5C4.7	565
WU-088D	562	WV-088	562	WY-063	561	X-78	2007	XI71	2007	YEAD015	562	Z5C5.1	561
WU-090	562	WV-088A	562	WY-063A	561	X78	2007	XI72	2007	YEAD030	1104	Z5C6.2	565
WU-090A	562	WV-088B	562	WY-063B	561	X194-3005829A	2041	XI73	2007	YEAD032	1123	Z5C9.1	563
WU-090B	562	WV-088C	562	WY-063C	561	X300-1300A	2030	XN-400-318-P1	2009	YEADIN60P	1123	Z5C12	562
WU-090C	562	WV-088D	562	WY-063D	561	X735-40C	2020	XN-400-319-P2	2023	YEADAW01-86	561	Z5C-15	564
WU-090D	562	WV-090	562	WY-065	561	X735-41	2009	XS1	2010	YEAMLM2900N	1713	Z5C15	564
WU-092	562	WV-090A	562	WY-065A	561	X4604	1104	XS2	2010	YEAN25C941	2009	Z5D4.7	565
WU-092A	562	WV-090B	562	WY-065B	561	X6584-C	2009	XS3	2010	YR-011	1104	Z5D5.1	565
WU-092B	562	WV-090C	562	WY-065C	561	X19801-A	2009	XS4	2010	YR011	1104	Z5D6.2	561
WU-092C	562	WV-090D	562	WY-065D	561	X19001-B	2030	XS6	2010	Y56-V139-2-2	1123	Z5D9.1	562
WU-092D	562	WV-092	562	WY-088	562	X19001-C	2030	X59-1B	562	Y5G-2002A	1104	Z5D12	563
WU-094	562	WV-092A	562	WY-088A	562	X19001-D	2016	X5-10	1104	Y5G-V47-1-3	1104	Z5D-15	564
WU-094A	562	WV-092B	562	WY-088B	562	X-19031-A	1103	X510	1104	Y5G-V47-7-51	1101	Z5D15	564
WU-094B	562	WV-092C	562	WY-088C	562	X-23305-3	1144	X514	2010	Y5G-V47-7-51-1	1104	Z6.2	561
WU-094C	562	WV-092D	562	WY-088D	562	X-23305-4	1144	X515	2010	Y5G-V47-7-51-2	1104	Z-11	563
WU-094D	562	WV-094	562	WY-090	562	X330362	563	X516	1104	Y5G-V139-2-2	1123	Z-12	563
WU-208	563	WV-094A	562	WY-090A	562	X925940-501B	1102	X516A	1104	Y5G-V139-22	1123	Z12	563
WU-120	563	WV-094B	562	WY-090B	562	X925540-501B	1102	X517	1104	YV1	2007	Z12A	563
WU-120A	563	WV-094C	562	WY-090C	562	X10222E0-1	1102	X517A	1104	YV1A	2007	Z12K	563
WU-120C	563	WV-094D	562	WY-090D	562	XA101	2007	X518	1104	YV2	2007	Z12L	563
WU-120D	563	WV-115	563	WY-092	562	XA102	2007	X519	2023	Z0-2	1101	Z-15	564
WU-125	563	WV-115A	563	WY-092A	562	XA103	2007	X521	2009	Z0-12A	563	Z-15K	564
WU-125A	563	WV-115B	563	WY-092B	562	XA104	2007	X522	2009	Z0-12B	563	Z15K	564
WU-125B	563	WV-115C	563	WY-092C	562	XA111	2007	X522(RECT.)	1104	Z0-12B	565	Z92	2061
WU-125C	563	WV-115D	563	WY-092D	562	XA112	2007	X523	1104	Z0211	561	Z111Z	563
WU-125D	563	WV-120	563	WY-094	562	XA121	1104	X523A	1104	Z0214	562	Z-175-011	1102
WU-150	564	WV-120A	563	WY-094A	562	XA122	2007	X530	2030	Z0219	562	Z694	562
WU-150A	564	WV-120B	563	WY-094B	562	XA123	2007	X5-31	1104	Z0222	564	Z714	562
WU-150B	564	WV-120C	563	WY-094C	562	XA124	2007	X531	1104	Z0225	565	Z801	561
WU-150C	564	WV-120D	563	WY-094D	562	XA126	2007	X536	2016	Z0406	561	Z-963B	563
WU-150D	564	WV-150	563	WY-120	563	XA131	2007	X537	2016	Z0408	562	Z-1014	563
WV-050	565	WV-150A	564	WY-120A	563	XA141	2007	X538	2016	Z0412	563	Z1014	563
WV-050A	565	WV-150B	564	WY-120B	563	XA142	2007	X539	2016	Z0415	564	Z-1016	564
WV-050B	565	WV-150C	564	WY-120C	563	XA143	2007	X540	2010	Z0418	565	Z1016A	564
WV-050C	565	WV-150D	564	WY-120D	563	XA161	2007	X540A	1104	Z0B5.1	562	Z-1016A	564
WV-050D	565	WX-050	565	WY-150	564	XA494	2023	XT15X	2010	Z0B9.1	563	Z1103	565
WV-052	565	WX-050A	565	WY-150A	564	XA495	2023	XT30E	2007	Z0B-12	563	Z-1106	561
WV-052A	565	WX-050B	565	WY-150B	564	XA495(C)	2023	XT40E	2007	Z0B12	563	Z1109	562
WV-052B	565	WX-050C	565	WY-150C	564	XA495AC	2023	XT540A	2041	Z0B-15	564	Z1112	563
WV-052C	565	WX-050D	565	WY-150D	564	XA495C	2023	XU604	1104	Z0B15	565	Z1112-C	563
WV-052D	565	WX-052	565	WZ-050	565	XA1018	2030	XV604	1114	Z0C4.7	565	Z1112C	563
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
ZA-15B	564	ZEN110	2099	ZM15	564	ZS15	564	ZT15B	564	ZT153	2023	ZTX321	2010
ZA15B	564	ZEN111	2009	ZM15A	564	ZS-15A	564	ZT20	2009	ZT153A	2023	ZTX330	2009
ZA15V	564	ZEN112	2009	ZM15B	564	ZS15A	564	ZT20-1	2009	ZT154	2023	ZTX331	2009
ZA150	1171	ZEN113	2009	ZM2705	565	ZS-15B	565	ZT20-12	2009	ZT154A	2023	ZTX360	2009
ZA29312	1103	ZEN114	2009	ZN7400E	1801	ZS15B	564	ZT20-85	2009	ZT180	2023	ZTX501	2023
ZA100962E	2010	ZEN115	2009	ZN7400F	1801	ZS-20A	1104	ZT20A	2009	ZT180A	2023	ZTX502	2023
ZA105604	2007	ZEN116	2016	ZN7401E	1801	ZS20A	1104	ZT20B	2009	ZT181	2023	ZTX503	2023
ZAG-9673	2023	ZEN117	2058	ZN7401F	1801	ZS-20B	1104	ZT20C	2009	ZT181A	2023	ZTX504	2023
ZB1-09	562	ZEN118	2010	ZN7404E	1802	ZS20B	1104	ZT21	2009	ZT182	2023	ZTX510	2023
ZB1-9	562	ZEN119	2009	ZN7408E	1822	ZS-21	1104	ZT21-1	2009	ZT182A	2023	ZTX530	2023
ZB1-9V	562	ZEN120	2009	ZN7408J	1822	ZS21	1104	ZT21-12	2009	ZT183	2023	ZTX530A	2023
ZB-1-9.5	562	ZEN121	2058	ZN7490E	1808	ZS22	1104	ZT21-55	2009	ZT183A	2023	ZTX530B	2023
ZB1-10	563	ZEN122	2023	ZN7490F	1808	ZS-23	1104	ZT21A	2009	ZT184	2023	ZTX530C	2023
ZB1-12	563	ZEN125	2061	ZO-12	563	ZS23	1104	ZT21B	2009	ZT184A	2023	ZTX530D	2023
ZB1-15	564	ZEN126	2009	ZO-12A	563	ZS-24	1104	ZT21C	2009	ZT187	2023	ZTX531	2023
ZB4.7	565	ZEN127	2009	ZO-12B	563	ZS24	1104	ZT22	2009	ZT187A	2023	ZTX531A	2023
ZB5.1	565	ZEN128	2040	ZO-15	564	ZS-25	1104	ZT22-1	2009	ZT189	2023	ZTX531B	2023
ZB6.2	561	ZEN129	2029	ZO-15A	564	ZS25	1104	ZT22-12	2009	ZT190	2030	ZU12	563
ZB6.2A	561	ZEN206	2055	ZO-15AC	564	ZS30	1104	ZT22-55	2009	ZT191	2030	ZU12A	564
ZB6.2B	561	ZEN300	2007	ZO-15B	564	ZS-30A	1104	ZT22A	2009	ZT192	2030	ZU12B	563
ZB5.1	562	ZEN301	2007	ZO-15BY	564	ZS30A	1104	ZT22B	2009	ZT193	2030	ZU-15	564
ZB9.1A	562	ZEN303	2007	ZOB5.1	565	ZS-30B	1104	Z122C	2009	ZT202	2009	ZU15	564
ZB9.1B	562	ZEN306	2007	ZOB6.2	561	ZS30B	1104	ZT23	2009	ZT203	2009	ZU-15A	564
ZB12	563	ZEN309	2007	ZOB12	563	ZS31	1104	ZT23-1	2009	ZT204	2009	ZU15A	564
ZB12A	563	ZEN310	2007	ZOB-15	564	ZS-31A	1104	ZT23-12	2009	ZT200	2023	ZU-15B	564
ZB12B	563	ZEN311	2007	ZOB15	564	ZS31A	1104	ZT23A	2009	ZT200A	2023	ZU15B	564
ZB13A	564	ZEN312	2007	ZOD4.2	561	ZS-31B	1104	ZT23B	2009	ZT281	2023	ZV9.1	562
ZB15	564	ZEN313	2007	ZOD-15	564	ZS31B	1104	ZT23C	2009	ZT281A	2023	ZV9.1A	562
ZB15A	564	ZEN314	2007	ZOD15	564	ZS32	1104	ZT24	2009	ZT282	2023	ZV9.1B	562
ZB15B	564	ZEN430	1123	ZP5.1	565	ZS-32A	1104	ZT24-1	2009	ZT282A	2023	ZV12	563
ZB-31.12	563	ZEN431	1124	ZP6.2	561	ZS32A	1104	ZT24-12	2009	ZT283	2023	ZV12A	563
ZB206	561	ZIN502	563	ZP9.1	562	ZS-32B	1104	ZT24-55	2009	ZT283A	2023	ZV12B	563
ZB212	563	ZIN509	564	ZP9.1A	562	ZS32B	1104	ZT24A	2009	ZT284	2023	ZV-15	564
ZB1-09	562	ZEN605	1759	ZP9.1B	562	ZS-33A	1104	ZT24B	2009	ZT284A	2023	ZV15	564
ZB1-14	564	ZENER-122	563	ZP12	563	ZS-33B	1104	ZT24C	2009	ZT287	2023	ZV15A	564
ZC012	563	ZF5.1	565	ZP12A	563	ZS34	1104	ZT40	2009	ZT287A	2023	ZV15A	564
ZC-015	564	ZF6.2	561	ZP12B	563	ZS-34A	1104	ZT41	2009	ZT323.55	2009	ZV-15B	564
ZC015	564	ZF9.1	562	ZP-15	564	ZS34A	1104	ZT42	2009	ZT402	2009	ZV15B	564
ZC1N34A	1123	ZF12	563	ZP15	564	ZS-34B	1104	ZT43	2009	ZT403	2009	ZV50-9.1	562
ZC1S3585	1102	ZF12A	563	ZP-15A	564	ZS34B	1104	ZT44	2009	ZT404	2009	ZW2	1104
ZC2S470	2007	ZF12B	563	ZP15A	564	ZS40	1102	ZT50	2009	ZT406	2009	ZW9.1	562
ZC2S471	2007	ZF 15	564	ZP-15B	564	ZS-50	1104	ZT60	2009	ZT696	2009	ZX9.1	562
ZC2S471A	2007	ZF15	564	ZP15B	564	ZS50	1104	ZT60-1	2009	ZT697	2009	ZX12A	563
ZC2S4101	2007	ZF 15A	564	ZPD6.2	561	ZS51	1104	ZT60-12	2009	ZT706	2009	ZY12B	563
ZC2S4101BA	2007	ZF 15A	564	ZQ9.1	562	ZS-52	1104	ZT60-55	2009	ZT706A	2009	ZY-15	564
ZC2S4102	2007	ZF 15B	564	ZQ9.1A	562	ZS52	1104	ZT60A	2009	ZT708	2009	ZY-15A	564
ZC2S4102CA	2007	ZF 5B	564	ZQ9.1B	562	ZS-53	1104	ZT60B	2009	ZT709	2010	ZY15A	564
ZC2S4103	2007	ZF 5 IR	565	ZQ12	563	ZS53	1104	ZT60C	2009	ZT917	2010	ZY-15B	564
ZC2S4103CA	2007	ZF-16	564	ZQ12A	563	ZS70	1104	ZT61	2009	ZT918	2010	ZY15B	564
ZC2S4377	2007	ZF16.2	561	ZQ12B	563	ZS-71	1104	ZT61-1	2009	ZT930	2016	ZZ4.1	565
ZC2S4700A	2007	ZF19.1	562	ZQ-15	564	ZS71	1104	ZT61-12	2009	ZT1420	2009	ZZ5.1	565
ZC2S4700B	2007	ZF25.1R	565	ZQ15	564	ZS72	1104	ZT61-55	2009	ZT1479	2030	ZZ6.2	562
ZC106	561	ZF26.1	561	ZQ-15A	564	ZS-73	1104	ZT61A	2009	ZT1481	2030	ZZ9.1	561
ZC112	563	ZF29.1	562	ZQ15A	564	ZS73	1104	ZT61B	2009	ZT1483	2020	ZZ12	563
ZC115	564	ZF112	563	ZQ-15B	564	ZS74	1104	ZT61C	2009	ZT1484	2020	ZZ-15	564
ZC-140	2020	ZF115	564	ZQ15B	564	ZS74B	1104	ZT-62	2009	ZT1485	2020	ZZ15	564
ZC-140(TRANS)	2020	ZF212	563	ZQ15X	564	ZS76	1104	ZT62-1	2009	ZT1486	2020		
ZC012	563	ZF215	564	ZR10	1141	ZS78	1114	ZT62-12	2009	ZT1487	2041		
ZCOM3679	1104	ZG4.7	565	ZR-10B	1104	ZS78A	1114	ZT62-15	2009	ZT1488	2041		
ZCOM-5683-0	1104	ZG5.1	562	ZR11	1143	ZS78B	1114	ZT62C	2009	ZT1489	2041		
ZD012	563	ZG 12	563	ZR12	1143	ZS90	1104	ZT63	2009	ZT1490	2041		
ZD-015	564	ZG-15	564	ZR13	1144	ZS91	1104	ZT63-1	2009	ZT1613	2030		
ZD015	564	ZG15	564	ZR14	1144	ZS92	1104	ZT63-12	2009	ZT1700	2030		
ZD5.1A	565	ZG15A	564	ZR15	1104	ZS94	1104	ZT63-55	2009	ZT1701	2020		
ZD6.2A	561	ZG- 5B	564	ZRS0B793-1	563	ZS100	1104	ZT63A	2009	ZT1702	2041		
ZD6.2B	561	ZG15B	564	ZRS0B921-3	564	ZS101	1104	ZT63B	2009	ZT1708	2009		
ZD9.1A	562	ZG130119	564	ZR60	1104	ZS102	1104	ZT63C	2009	ZT1711	2030		
ZD9.1B	562	ZH9.1	562	ZR-61	1104	ZS103	1104	ZT64	2009	ZT2102	2030		
ZD12A	563	ZH9.1A	562	ZR61	1104	ZS104	1104	ZT64-1	2009	ZT2205	2009		
ZD12B	563	ZH9.1B	562	ZR62	1104	ZS108	1104	ZT64-5	2009	ZT2206	2009		
ZD-15	564	ZH12	563	ZR-63	1104	ZS120	1104	ZT64-12	2009	ZT2270	2030		
ZD-15A	564	ZH12A	563	ZR63	1104	ZS121	1104	ZT64-55	2009	ZT2368	2009		
ZD15A	564	ZH12B	563	ZR64	1104	ZS122	1104	ZT64A	2009	ZT2369	2009		
ZD-15B	564	ZH-15	564	ZR66	1104	ZS123	1104	ZT64B	2009	ZT2369A	2009		
ZD15B	564	ZH15	564	ZR68	1114	ZS124	1104	ZT64C	2009	ZT2475	2010		
ZD51A	565	ZH-15A	564	ZR212	563	ZS142	1102	ZT66	2009	ZT2476	2009		
ZDT	2009	ZH15A	564	ZR-500	1104	ZS173	1104	ZT66A	2030	ZT2477	2009		
ZDT10	2010	ZH-15B	564	ZR500	1104	ZS174	1104	ZT66B	2030	ZT2708	2016		
ZDT11	2010	ZH153	564	ZR-590	1104	ZS174B	1104	ZT66C	2030	ZT2857	2010		
ZDT20	2010	ZH195	561	ZR590	1104	ZS270	1141	ZT68	2009	ZT2876	2020		
ZDT21	2010	ZH111	563	ZR-590A	1104	ZS271	1143	ZT80	2009	ZT2938	2009		
ZDT-30	2010	ZJ12	563	ZR590A	1104	ZS272	1143	ZT81	2009	ZT3269A	2010		
ZDT30	2010	ZJ12A	563	ZR601	1143	ZS274	1144	ZT-82	2009	ZT3512	2030		
ZDT-31	2010	ZJ12B	563	ZR602	1143	ZS278	1114	ZT82(TRANSISTOR)	2009	ZT3600	2010		
ZDT31	2010	ZJ-15	564	ZR604	1144	ZS701	1143	ZT83	2009	ZT3866	2030		
ZE-1.5	1123	ZJ15	564	ZR608	1114	ZS702	1143	ZT84	2009	ZTR-1N60	1123		
ZE9.1	562	ZJ-15A	564	ZR-1025	1104	ZSA49	2007	ZT86	2030	ZTR-854	2007		
ZE12	563	ZJ15A	564	ZR1025	1104	ZS8364	2007	ZT87	2009	ZTR-856	2007		
ZE12A	563	ZJ-15E	564	ZR-1031	1104	ZS8439	2007	ZT88	2030	ZTR-FOR2B	1067		
ZE12B	563	ZJ15B	564	ZR1031	1104	ZS8535B	2010	ZT89	2009	ZTR-FOR2B	1067		
ZE-15	564	ZJ40	2010	ZR-1035	1104	ZSD235Y	2020	ZT90	2030	ZTR-W06B	1104		
ZE15	564	ZJ72	2007	ZR1035	1104	ZT06	2016	ZT93	2030	ZTR-W06C	1104		
ZE-15A	564	ZJ73	2007	ZR-1076	1104	ZT6.2	561	ZT94	2030	ZTR-W06B	1104		
ZE15A	564	ZJ257E	1104	ZR1076	1104	ZT6.2A	561	ZT-110	2009	ZTX31U	2010		
ZE-15B	564	ZM5.1	565	ZS4F	1102	ZT6.2B	561	ZT111	2009	ZTX107	2009		
ZE15B	564	ZM5.1A	565	ZS7	1104	ZT9.1	562	ZT112	2009	ZTX108	2009		

MAJOR SEMICONDUCTOR COMPONENTS

NAME OF DEVICE	CIRCUIT SYMBOL	COMMONLY USED JUNCTION SCHEMATIC	ELECTRICAL CHARACTERISTICS	MAX RATINGS AVAILABLE	MAJOR APPLICATIONS	ROUGHLY ANALOGOUS TO:
Diode or Rectifier				1500 Amps 3000 Volts	Rectification Blocking Detecting Steering	Check valve Diode tube Gas diode
Avalanche (Zener) Diode				22 Volts 1 Watt	Regulation Reference Clipping	V-R tube
Integrated Voltage Regulator (IVR)				40 Volts 100 mA 0.4 Watts	Shunt voltage regulator Reference element Error modifier Level sensing Level shifting	Avalanche Diode
Tunnel Diode				Peak point current = 100 mA Resistive cutoff freq = 40 Gc	UHF converter Logic circuits Microwave circuits Level sensing	None
Back Diode				5 mA 400 mV	Microwave mixers and low power oscillators	None
Thyrector				70 A peak pulse (2" Sq. cell)	Transient voltage suppression and arc suppression	Thyrite Two avalanche diodes in inverse-series connection
n-p-n Transistor				300 Volts 25 Watts	Amplification Switching Oscillation	Pentode Tube
p-n-p Transistor				75 Volts 25 Watts	Amplification Switching Oscillation	None
Photo Transistor				45 Volts 0.35 Amps 0.6 Watts	Tape readers Card readers Position sensor Tachometers	None
Unijunction Transistor (UJT)				35 Volts 0.450 Watts	Interval timing Oscillation Level Detector SCR Trigger	None

MAJOR SEMICONDUCTOR COMPONENTS

NAME OF DEVICE	CIRCUIT SYMBOL	COMMONLY USED JUNCTION SCHEMATIC	ELECTRICAL CHARACTERISTICS	MAX RATINGS AVAILABLE	MAJOR APPLICATIONS	ROUGHLY ANALOGOUS TO,
Complementary Unijunction Transistor (CUJT)				30 Volts 0.30 Watts 0.15 Amps	High stability timers Oscillators and level detectors	None
Programmable Unijunction Transistor (PUT)				40 Volts 0.30 Watts 0.15 Amps	Low cost timers and oscillators Long period timers SCR trigger Level detector	UJT
Silicon Controlled Rectifier (SCR)				1000 Amps 1800 Volts	Power switching Phase control Inverters Choppers	Gas thyatron or ignitron
Complementary Silicon Controlled Rectifier (CSCR)				50 Volts 0.25 Amps 0.45 Watts	Ring counters Low speed logic Lamp driver	None
Light Activated SCR* (LASCR)				1.6 Amps 200 Volts	Relay Replacement Position controls Photoelectric applications Slave flashes	None
Silicon Controlled Switch* (SCS)				100 Volts 200 mA	Logic applications Counters Nixie drivers Lamp drivers	Complementary transistor pair
Silicon Unilateral Switch (SUS)				0.350 Watts 0.200 Amps 10 Volts	Switching Circuits Counters SCR Trigger Oscillator	Shockley or 4-layer diode
Silicon Bilateral Switch (SBS)				0.350 Watts 0.200 Amps 10 Volts	Switching Circuits Counters TRIAC Phase Control	Two inverse Shockley diodes
Triac				25 Amps 500 Volts	AC switching Phase control Relay replacement	Two SCR's in inverse parallel
Diac Trigger				40 Volts 2 Amps peak	Triac and SCR trigger Oscillator	Neon lamp

*Light Activated SCS also available.

GLOSSARY OF WORDS, SYMBOLS AND ABBREVIATIONS

The following letter symbols and abbreviations are recommended by the Joint Electron Device Engineering Council (JEDEC) of the Electronic Industries Association (EIA) and the National Electrical Manufacturers Association (NEMA) for use in semiconductor device data sheets and specifications.

A, a —Anode	G_{pc} —Common-collector small-signal insertion power gain
B, b —Base	G_{pe} —Common-emitter large-signal insertion power gain
b_{fs} —Common-source small-signal forward transfer susceptance	G_{pe} —Common-emitter small-signal insertion power gain
b_{is} —Common-source small-signal input susceptance	G_{pg} —Common-gate small-signal insertion power gain
b_{os} —Common-source small-signal output susceptance	G_{ps} —Common-source small-signal insertion power gain
b_{rs} —Common-source small-signal reverse transfer susceptance	g_{rs} —Common-source small-signal reverse transfer conductance
C, c —Collector	G_{TB} —Common-base large-signal transducer power gain
C_{cb} —Collector-base interterminal capacitance	G_{tb} —Common-base small-signal transducer power gain
C_{ce} —Collector-emitter interterminal capacitance	G_{TC} —Common-collector large-signal transducer power gain
C_{ds} —Drain-source capacitance	G_{tc} —Common-collector small-signal transducer power gain
C_{du} —Drain-substrate capacitance	G_{TE} —Common-emitter large-signal transducer power gain
C_{eb} —Emitter-base interterminal capacitance	G_{te} —Common-emitter small-signal transducer power gain
C_{ibo} —Common-base open-circuit input capacitance	G_{tg} —Common-gate small-signal transducer power gain
C_{ibs} —Common-base short-circuit input capacitance	G_{ts} —Common-source small-signal transducer power gain
C_{ieo} —Common-emitter open-circuit input capacitance	h_{FB} —Common-base static forward current transfer ratio
C_{ies} —Common-emitter short-circuit input capacitance	h_{fb} —Common-base small-signal short-circuit forward current transfer ratio
C_{iss} —Common-source short-circuit input capacitance	h_{FC} —Common-collector static forward current transfer ratio
C_{obo} —Common-base open-circuit output capacitance	h_{fc} —Common-collector small-signal short-circuit forward current transfer ratio
C_{obs} —Common-base short-circuit output capacitance	h_{FE} —Common-emitter static forward current transfer ratio
C_{oeo} —Common-emitter open-circuit output capacitance	h_{fs} —Common-emitter small-signal short-circuit forward current transfer ratio
C_{oes} —Common-emitter short-circuit output capacitance	h_{FEL} —Inherent large-signal forward current transfer ratio
C_{oss} —Common-source short-circuit output capacitance	h_{IB} —Common-base static input resistance
C_{rsb} —Common-base short-circuit reverse transfer capacitance	h_{ib} —Common-base small-signal short-circuit input impedance
C_{rcs} —Common-collector short-circuit reverse transfer capacitance	h_{IC} —Common-collector static input resistance
C_{rep} —Common-emitter short-circuit reverse transfer capacitance	h_{ie} —Common-collector small-signal short-circuit input impedance
C_{rsa} —Common-source short-circuit reverse transfer capacitance	h_{IE} —Common-emitter static input resistance
C_{rc} —Collector depletion-layer capacitance	h_{ie} —Common-emitter small-signal short-circuit input impedance
C_{re} —Emitter depletion-layer capacitance	h_{ie(imag)} —Imaginary part of common-emitter small-signal short-circuit input impedance
D, d —Drain	h_{ie(real)} —Real part of common-emitter small-signal short-circuit input impedance
E, e —Emitter	h_{ob} —Common-base small-signal open-circuit output admittance
η —Intrinsic standoff ratio	h_{oc} —Common-collector small-signal open-circuit output admittance
f_{hfb} —Common-base small-signal short-circuit forward current transfer ratio cutoff frequency	h_{oe} —Common-emitter small-signal open-circuit output admittance
f_{hfc} —Common-collector small-signal short-circuit forward current transfer ratio cutoff frequency	h_{oe(imag)} —Imaginary part of common-emitter small-signal open-circuit output admittance
f_{hfe} —Common-emitter small-signal short-circuit forward current transfer ratio cutoff frequency	
f_{max} —Maximum frequency of oscillation	
F_T —Transition frequency (frequency at which common-emitter small-signal forward current transfer ratio extrapolates to unity)	
G, g —Gate	
g_{fs} —Common-source small-signal forward transfer conductance	
g_{is} —Common-source small-signal input conductance	
g_{MB} —Common-base static transconductance	
g_{MC} —Common-collector static transconductance	
g_{ME} —Common-emitter static transconductance	
g_{os} —Common-source small-signal output conductance	
G_{PB} —Common-base large-signal insertion power gain	
G_{pb} —Common-base small-signal insertion power gain	
G_{PC} —Common-collector large-signal insertion power gain	

- $h_{oe(\text{real})}$** —Real part of common-emitter small-signal open-circuit output admittance
- h_{rb}** —Common-base small-signal open-circuit reverse voltage transfer ratio
- h_{rc}** —Common-collector small-signal open-circuit reverse voltage transfer ratio
- h_{re}** —Common-emitter small-signal open-circuit reverse voltage transfer ratio
- I_B** —Base-terminal dc current
- I_b** —Alternating component (rms value) of base-terminal current
- i_B** —Instantaneous total value of base-terminal current
- I_{BEV}** —Base cutoff current, dc
- $I_{B2(\text{mod})}$** —Interbase modulated current
- I_C** —Collector-terminal dc current
- I_c** —Alternating component (rms value) of collector-terminal current
- i_C** —Instantaneous total value of collector-terminal current
- I_{CBO}** —Collector cutoff current (dc), emitter open
- I_{CEO}** —Collector cutoff current (dc), base open
- I_{CER}** —Collector cutoff current (dc), specified resistance between base and emitter
- I_{CES}** —Collector cutoff current (dc), base shorted to emitter
- I_{CEV}** —Collector cutoff current (dc), specified voltage between base and emitter
- I_{CEX}** —Collector cutoff current (dc), specified circuit between base and emitter
- I_D** —Drain current, dc
- $I_{D(\text{off})}$** —Drain cutoff current
- $I_{D(\text{on})}$** —On-state drain current
- I_{DSS}** —Zero-gate-voltage drain current
- I_E** —Emitter-terminal dc current
- I_e** —Alternating component (rms value) of emitter-terminal current
- i_E** —Instantaneous total value of emitter-terminal current
- I_{EBO}** —Emitter cutoff current (dc), collector open
- I_{EB20}** —Emitter reverse current
- $I_{EC(\text{ofs})}$** —Emitter-collector offset current
- I_{ECS}** —Emitter cutoff current (dc), base short-circuited to collector
- $I_{E1E2(\text{off})}$** —Emitter cutoff current
- I_F** —For voltage-regulator and voltage-reference diodes: dc forward current. For signal diodes and rectifier diodes: dc forward current (no alternating component)
- I_f** —Alternating component of forward current (rms value)
- i_F** —Instantaneous total forward current
- $I_{F(\text{AV})}$** —Forward current, dc (with alternating component)
- I_{FM}** —Maximum (peak) total forward current
- $I_{F(\text{OV})}$** —Forward current, overload
- I_{FRM}** —Maximum (peak) forward current, repetitive
- $I_{F(\text{RMS})}$** —Total rms forward current
- I_{FSM}** —Maximum (peak) forward current, surge
- I_G** —Gate current, dc
- I_{GF}** —Forward gate current
- I_{GR}** —Reverse gate current
- I_{GSS}** —Reverse gate current, drain short-circuited to source
- I_{GSSF}** —Forward gate current, drain short-circuited to source
- I_{GSSR}** —Reverse gate current, drain short-circuited to source
- I_i** —Inflection-point current
- $Im(h_{ie})$** —Imaginary part of common-emitter small-signal short-circuit input impedance
- $\bar{i}m(h_{oe})$** —Imaginary part of common-emitter small-signal open-circuit output admittance
- I_O** —Average forward current, 180° conduction angle, 60-Hz half sine wave
- I_P** —Peak-point current
- I_R** —For voltage-regulator and voltage-reference diodes: dc reverse current. For signal diodes and rectifier diodes: dc reverse current (no alternating component)
- I_r** —Alternating component of reverse current (rms value)
- i_R** —Instantaneous total reverse current
- $I_{R(\text{AV})}$** —Reverse current, dc (with alternating component)
- I_{RM}** —Maximum (peak) total reverse current
- I_{RRM}** —Maximum (peak) reverse current, repetitive
- $I_{R(\text{RMS})}$** —Total rms reverse current
- I_{RSM}** —Maximum (peak) surge reverse current
- I_S** —Source current, dc
- I_{SDS}** —Zero-gate-voltage source current
- $I_{S(\text{off})}$** —Source cutoff current
- I_V** —Valley-point current
- I_Z** —Regulator current, reference current (dc)
- I_{ZK}** —Regulator current, reference current (dc near breakdown knee)
- I_{ZM}** —Regulator current, reference current (dc maximum rated current)
- K, k**—Cathode
- L_c** —Conversion loss
- M**—Figure of merit
- NF_o** —Overall noise figure
- NR_o** —Output noise ratio
- P_{BE}** —Power input (dc) to base, common emitter
- p_{BE}** —Instantaneous total power input to base, common emitter
- P_{CB}** —Power input (dc) to collector, common base
- p_{CB}** —Instantaneous total power input to collector, common base
- P_{CE}** —Power input (dc) to collector, common emitter
- p_{CE}** —Instantaneous total power input to collector, common emitter
- P_{EB}** —Power input (dc) to emitter, common base
- p_{EB}** —Instantaneous total power input to emitter, common base
- P_F** —Forward power dissipation, dc (no alternating component)
- p_F** —Instantaneous total forward power dissipation
- $P_{F(\text{AV})}$** —Forward power dissipation, dc (with alternating component)
- P_{FM}** —Maximum (peak) total forward power dissipation
- P_{IB}** —Common-base large-signal input power
- p_{ib}** —Common-base small-signal input power
- P_{IC}** —Common-collector large-signal input power
- p_{ic}** —Common-collector small-signal input power
- P_{IE}** —Common-emitter large-signal input power
- p_{ie}** —Common-emitter small-signal input power
- P_{OB}** —Common-base large-signal output power
- p_{ob}** —Common-base small-signal output power
- P_{OC}** —Common-collector large-signal output power
- p_{oc}** —Common-collector small-signal output power
- P_{OE}** —Common-emitter large-signal output power
- p_{oe}** —Common-emitter small-signal output power
- P_R** —Reverse power dissipation, dc (no alternating component)
- p_R** —Instantaneous total reverse power dissipation
- $P_{R(\text{AV})}$** —Reverse power dissipation, dc (with alternating component)

- P_{RM}** —Maximum (peak) total reverse power dissipation
 P_T —Total nonreactive power input to all terminals
 p_T —Nonreactive power input, instantaneous total, to all terminals
 Q_S —Stored charge
 r_{BB} —Interbase resistance
 $r_b' C_c$ —Collector-base time constant
 $r_{CE(sat)}$ —Saturation resistance, collector-to-emitter
 $r_{DS(on)}$ —Static drain-source on-state resistance
 $r_{d(s(on))}$ —Small-signal drain-source on-state resistance
 $Re(h_{ie})$ —Real part of common-emitter small-signal short-circuit input impedance
 $Re(h_{oe})$ —Real part of common-emitter small-signal open-circuit output admittance
 $r_{e1e2(on)}$ —Small-signal emitter-emitter on-state resistance
 r_i —Dynamic resistance at inflection point
 R_{θ} —Thermal resistance
 $R_{\theta CA}$ —Thermal resistance, case to ambient
 $R_{\theta JA}$ —Thermal resistance, junction to ambient
 $R_{\theta JC}$ —Thermal resistance, junction to case
 S, s —Source
 T_A —Ambient temperature or free-air temperature
 T_C —Case temperature
 t_d —Delay time
 $t_{d(off)}$ —Turn-off delay time
 $t_{d(on)}$ —Turn-on delay time
 t_f —Fall time
 t_{fr} —Forward recovery time
 T_j —Junction temperature
 t_{off} —Turn-off time
 t_{on} —Turn-on time
 t_p —Pulse time
 t_r —Rise time
 t_{rr} —Reverse recovery time
 t_s —Storage time
 TSS —Tangential signal sensitivity
 T_{stg} —Storage temperature
 t_w —Pulse average time
 U, u —Bulk (substrate)
 V_{BB} —Base supply voltage (dc)
 V_{BC} —Average or dc voltage, base to collector
 V_{bc} —Instantaneous value of alternating component of base-collector voltage
 V_{BE} —Average or dc voltage, base to emitter
 v_{be} —Instantaneous value of alternating component of base-emitter voltage
 $V_{(BR)}$ —Breakdown voltage (dc)
 $v_{(BR)}$ —Breakdown voltage (instantaneous total)
 $V_{(BR)(CBO)}$ —Collector-base breakdown voltage, emitter open
 $V_{(BR)(CEO)}$ —Collector-emitter breakdown voltage, base open
 $V_{(BR)(CER)}$ —Collector-emitter breakdown voltage, resistance between base and emitter
 $V_{(BR)(CES)}$ —Collector-emitter breakdown voltage, base shorted to emitter
 $V_{(BR)(CEV)}$ —Collector-emitter breakdown voltage, specified voltage between base and emitter
 $V_{(BR)(CEX)}$ —Collector-emitter breakdown voltage, specified circuit between base and emitter
 $V_{(BR)(EBO)}$ —Emitter-base breakdown voltage, collector open
 $V_{(BR)(ECO)}$ —Emitter-collector breakdown voltage, base open
 $V_{(BR)(E1E2)}$ —Emitter-emitter breakdown voltage
 $V_{(BR)(GSS)}$ —Gate-source breakdown voltage
 $V_{(BR)(GSF)}$ —Forward gate-source breakdown voltage
 $V_{(BR)(GSSR)}$ —Reverse gate-source breakdown voltage
 V_{B2B1} —Interbase voltage
 V_{CB} —Average or dc voltage, collector to base
 v_{cb} —Instantaneous value of alternating component of collector-base voltage
 $V_{CB(off)}$ —Collector-base dc open-circuit voltage (floating potential)
 V_{CBO} —Collector-base voltage, dc, emitter open
 V_{CC} —Collector supply voltage (dc)
 V_{CE} —Average or dc voltage, collector to emitter
 v_{ce} —Instantaneous value of alternating component of collector-emitter voltage
 $V_{CE(off)}$ —Collector-emitter dc open-circuit voltage (floating potential)
 V_{CEO} —Collector-emitter voltage (dc), base open
 $V_{CE(offset)}$ —Collector-emitter offset voltage
 V_{CER} —Collector-emitter voltage (dc), resistance between base and emitter
 V_{CES} —Collector-emitter voltage (dc), base shorted to emitter
 $V_{CE(sat)}$ —Collector-emitter dc saturation voltage
 V_{CEV} —Collector-emitter voltage (dc), specified voltage between base and emitter
 V_{CEX} —Collector-emitter voltage (dc), specified circuit between base and emitter
 V_{DD} —Drain supply voltage (dc)
 V_{DG} —Drain-gate voltage
 V_{DS} —Drain-source voltage
 $V_{DS(on)}$ —Drain-source on-state voltage
 V_{DU} —Drain-substrate voltage
 V_{EB} —Average or dc voltage, emitter to base
 v_{eb} —Instantaneous value of alternating component of emitter-base voltage
 $V_{EB(off)}$ —Emitter-base dc open-circuit voltage (floating potential)
 V_{EBO} —Emitter-base voltage (dc), collector open
 $V_{EB(sat)}$ —Emitter saturation voltage
 V_{EC} —Average or dc voltage, emitter to collector
 v_{ec} —Instantaneous value of alternating component of emitter-collector voltage
 $V_{EC(off)}$ —Emitter-collector dc open-circuit voltage (floating potential)
 $V_{EC(offset)}$ —Emitter-collector offset voltage
 V_{EE} —Emitter supply voltage (dc)
 V_F —For voltage-regulator and voltage-reference diodes: dc forward voltage. For signal diodes and rectifier diodes: dc forward voltage (no alternating component)
 V_f —Alternating component of forward voltage (rms value)
 V_F —Instantaneous total forward voltage
 $V_{F(AV)}$ —Forward voltage, dc (with alternating component)
 V_{FM} —Maximum (peak) total forward voltage
 $V_{F(RMS)}$ —Total rms forward voltage
 V_{GG} —Gate supply voltage (dc)
 V_{GS} —Gate-source voltage
 V_{GSF} —Forward gate-source voltage
 $V_{GS(off)}$ —Gate-source cutoff voltage
 V_{GSR} —Reverse gate-source voltage
 $V_{GS(th)}$ —Gate-source threshold voltage
 V_{GU} —Gate-substrate voltage
 V_i —Inflection-point voltage
 V_{OB1} —Base-1 peak voltage
 V_p —Peak-point voltage
 V_{PP} —Projected peak-point voltage
 V_R —For voltage-regulator and voltage-reference diodes: dc reverse voltage. For signal diodes and rectifier diodes: dc reverse voltage (no alternating component)
 V_r —Alternating component of reverse voltage (rms value)

- V_R — Instantaneous total reverse voltage
 $V_{R(AV)}$ — Reverse voltage, dc (with alternating component)
 V_{RM} — Maximum (peak) total reverse voltage
 V_{RRM} — Repetitive peak reverse voltage
 $V_{R(RMS)}$ — Total rms reverse voltage
 V_{RSM} — Nonrepetitive peak reverse voltage
 V_{RT} — Reach-through voltage
 V_{RWM} — Working peak reverse voltage
 V_{SS} — Source supply voltage (dc)
 V_{SU} — Source-substrate voltage
 $V_{(T0)}$ — Threshold voltage
 V_V — Valley-point voltage
 V_Z — Regulator voltage, reference voltage (dc)
 V_{ZM} — Regulator voltage, reference voltage (dc at maximum rated current)
 y_{fb} — Common-base small-signal short-circuit forward transfer admittance
 y_{fc} — Common-collector small-signal short-circuit forward transfer admittance
 y_{fe} — Common-emitter small-signal short-circuit forward transfer admittance
 y_{fs} — Common-source small-signal short-circuit forward transfer admittance
 $y_{fs(imag)}$ — Common-source small-signal forward transfer susceptance
 $y_{fs(real)}$ — Common-source small-signal forward transfer conductance
 y_{ib} — Common-base small-signal short-circuit input admittance
 y_{ic} — Common-collector small-signal short-circuit input admittance
 y_{ie} — Common-emitter small-signal short-circuit input admittance
 $y_{ie(imag)}$ — Imaginary part of small-signal short-circuit input admittance (common-emitter)
 $y_{ie(real)}$ — Real part of small-signal short-circuit input admittance (common-emitter)
 y_{is} — Common-source small-signal short-circuit input admittance
 $y_{is(imag)}$ — Common-source small-signal input susceptance
 $y_{is(real)}$ — Common-source small-signal input conductance
 y_{ob} — Common-base small-signal short-circuit output admittance
 y_{oc} — Common-collector small-signal short-circuit output admittance
 y_{oe} — Common-emitter small-signal short-circuit output admittance
 $y_{oe(imag)}$ — Imaginary part of small-signal short-circuit output admittance (common-emitter)
 $y_{oe(real)}$ — Real part of small-signal short-circuit output admittance (common-emitter)
 y_{os} — Common-source small-signal short-circuit output admittance
 $y_{os(imag)}$ — Common-source small-signal output susceptance
 $y_{os(real)}$ — Common-source small-signal output conductance
 y_{rb} — Common-base small-signal short-circuit reverse transfer admittance
 y_{rc} — Common-collector small-signal short-circuit reverse transfer admittance
 y_{re} — Common-emitter small-signal short-circuit reverse transfer admittance
 y_{rs} — Common-source small-signal short-circuit reverse transfer admittance
 $y_{rs(imag)}$ — Common-source small-signal reverse transfer susceptance
 $y_{rs(real)}$ — Common-source small-signal reverse transfer conductance
 z_{if} — Intermediate-frequency impedance
 z_m — Modulator-frequency load impedance
 z_{rf} — Radio-frequency impedance
 $Z_{\theta JA(t)}$ — Junction-to-ambient transient thermal impedance
 $Z_{\theta JC(t)}$ — Junction-to-case transient thermal impedance
 $Z_{\theta(t)}$ — Transient thermal impedance
 z_v — Video impedance
 z_v — Regulator impedance, reference impedance (small-signal at I_z)
 z_{zk} — Regulator impedance, reference impedance (small-signal at I_{ZK})
 z_{zm} — Regulator impedance, reference impedance (small-signal at I_{ZM})

PREFIX AND MANUFACTURER IDENTIFICATION

PREFIX	MANUFACTURER	PREFIX	MANUFACTURER	PREFIX	MANUFACTURER
BA	Rohm	MOC	Motorola	SLP	Sanyo
CEX	Control Electronics	MPS	Motorola	SN	Texas Instrument
DAC	National Semiconductor	MRF	Motorola	TA	Toshiba
FND	Fairchild	MU	Motorola	TIL	Texas Instrument
FRL	Litronix	MV	General Instrument	TIP	Motorola
ICM	Intersil	NE	Signetics	TLO	Texas Instrument
LF	National Semiconductor	NSM	National Semiconductor	TL	Texas Instrument
LM	National Semiconductor	PCIM	PC International	TLG	Toshiba
MA	National Semiconductor	S	American Micro Systems	TLR	Toshiba
MC	Motorola	SAD	Reticon	VN	Siliconix
MJ	Motorola	SE	Signetics	XC	Xciton
MM	National Semiconductor	SEL	Sanken		
	Motorola or Teledyne	SCS	Spectronics		

GENERIC PART NUMBER PREFIX CODE

AD	Analog To Digital	DA	Digital To Analog	LM	Linear Monolithic
AH	Analog Hybrid	DM	Digital Monolithic	MM	MOS Monolithic
AM	Analog Monolithic	LF	Linear FET	TBA	Linear Monolithic
CD	CMOS Digital	LH	Linear Hybrid		

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