

# RMC Type B Discaps

RMC Type B DISCAPS are rated at 1000 V.D.C.W. and are offered at no extra cost over lighter constructed by-pass ceramic capacitors.

They are ideal for any application where a steady or intermittent high voltage occurs and are available in capacities between .00015 and .02 MFD. Type B DISCAPS exhibit a minimum capacity change between  $\pm 10^{\circ}$  C and  $\pm 65^{\circ}$  C.

Write on your company letterhead for complete information on RMC DISCAPS.



RADIO MATERIALS CORPORATION
GENERAL OFFICE: 3325 N. California Ave., Chicago 18, III.
Two RMC Plants Devoted Exclusively to Ceramic Capacitors

FACTORIES AT CHICAGO, ILL. AND ATTICA, IND.

# **Printed Antennas!**



Through etching techniques many microwave antennas—end fire arrays, in particular—for the first time become practical. One broadcast array is also promising.

# & TELE-TECH

ECTRON

Vol. 16, No. 6

**June 1957** 

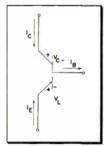
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# The Real Transistor

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"Flow Line Analysis" in the El April issue was widely hailed by transistor experts. Here the author extends the technique to analyze the avalanche action.

# "Pepperpot" Tube

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New wide angle picture tubes have focussed attention on yoke design. The "Pepperpot" tube, a CRT modified to produce split pencil rays, quickly spots distortions.

# The Doppler Story

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1



The Doppler principle has found increasing usage in the past few years. Here is a brief history of its development and the future seen for it in flight applications.

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# RADARSCOPE



#### **BRUSHLESS GENERATORS**

Transistorized panel boards such as this one replace brushes, relays, and other moving parts, in the power supply and control system designed by Westinghouse for the Boeing 707 jet airliner.

AIRCRAFT AND GUIDED MISSILES account for more than two-thirds of all the dollars obligated by the Defense Dept. during the four fiscal years ending June 30, 1958. Over the eight years beginning with the start of the Korean War in June, 1950, these two categories total \$71,843,077,000. The aircraft and guided missiles share of defense spending has shown a steady increase over the past eight years.

ELECTRONIC INDUSTRY in New England showed a \$30-million sales rise during 1953-1955, to a record high of \$612-million.

MORE ENGINEERING STUDENTS were in engineering schools this year than at any time since 1947. A total of nearly 243,000 were enrolled last fall, accounting for 12.5% of all the men attending colleges. Electrical engineering is the most popular field, with 20% of the undergraduates working toward E. E. degrees.

NEW COMPUTER SWITCH technique has been reported by National Cash Register Co. Unlike mechanical or electronic switches, the new technique uses tiny drops of light-sensitive fluid which show changes under different colors of light. With these materials three different colors of light may be used for storage, non-destructive readout, and erasing of information. Possibilities for lower cost computer circuits are seen in the new technique.

NEW APPROACH IN TV SCREENS developed by the Naval Research Laboratory uses thin transparent film of phosphor on face of TV tube in place of the present opaque white powders. Films are more rugged, do not burn out so readily, can be made brighter and present a much sharper image. High contrast can be maintained in daylight, because transparent phosphor films do not reflect light—incident light is lost in the darkened interior of the tube, even in direct sunlight. The new technique can be used with present color TV methods, but there is a more exciting possibility—depositing films one atop another and lighting them separately by controlling the speed or direction of the electrons in the tube.

TELLURIUM SEMICONDUCTORS show great promise. Tellurium compounds have applications as rectifiers, solar batteries, etc. One startling phenomenon is refrigeration obtained by passing electric current through elements of bismuth telluride. The theoretical cooling capacity is great enough to liquefy air directly without mechanical devices.

TELEPRINTERS will soon eliminate manual preparation of air waybills on Riddle Airlines' Atlanta-Miami route. Western Union-Airline plans include eventual linking of all major cities on regular routes and electronic control of deliveries, air waybills, operations, inventory, and space reservations. The system saves hundreds of man-hours, improves customer service, cuts freight-handling costs.

#### CABIN TESTS

Environmental tests will be conducted on this full scale cabin section of the new Convair 880 jet transport. Tests will include high and low temperatures to check air conditioning, and synthetic noise equivalent to that produced by the 880's four turbojet engines.



# Analyzing current developments and trends throughout the electronic industries that will shape tomorrow's research, manufacturing and operation

RADIO BROADCAST STATIONS will increase 30% within the next ten years. An important factor will be compact new broadcast equipment designed for increased reliability and ease of operation.

ELECTRONIC INDUSTRIES are very much in favor with investors, although many investors are dubious of TV set manufacturing during the next year. Know-how, research potential, and commercial and military electronics business are determining factors studied by investors.

SEMICONDUCTOR SURVEY by BDSA is in the offing. Manufacturers are complaining of 48 weeks delivery on tantalum sheet and long delays on molybdenum sheet—essential to production of power silicon diodes. The situation is further complicated by growing demand for semiconductors. One expert estimates a future need for 70 million power diodes for the automotive industry alone.

AIRFRAME PRODUCTION machine tools with electronic controls will reduce lead time in aircraft and missile production. The technique replaces jigs and patterns with punched tape. The tape controls a three-dimension milling machine or any other large-scale machine tool. An important feature is that duplicate tapes can be turned out in hours to control similar machines in case of emergency mobilization. The first such airframe production automation system will get a tryout producing the Matador missile and the Seamaster four-jet seaplane.

COMPLETELY TRANSISTORIZED TV sets are nearer, as a result of recent developments in high frequency transistors. TV set designers now predict the development of fully transistorized TV receivers will be technically practical by 1959. Many TV receiver sections can be transistorized now, with commercially available transistors. High frequency and high voltage transistors for the remaining sections are now being developed and can be expected on the market within the next two years. Next question, how soon can we produce a battery-powered, transistorized TV set?

TRANSFORMER TEST EQUIPMENT would have to be furnished by the government in case of full mobilization, warns the Business and Defense Services Administration. At current prices and limited procurements most manufacturers cannot meet the cost of the complete test facilities needed to produce electronic transformers to the increasingly rigid military specifications. The present practice of relying on private testing facilities for qualification testing, aside from increasing costs and delaying deliveries, would be impractical under mobilization conditions. A BDSA Task Group will determine military requirements for mobilization and then

survey the capacity of the electronic transformer industry.

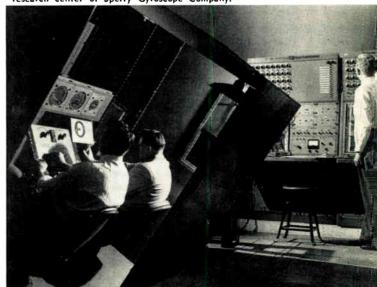
MILITARY AIRBORNE EQUIPMENT will be made smaller and more efficient through the new "Fused-Film Wire" process announced last month by Adam Consolidated Industries Inc. The process converts Teflon tape into a thin, concentric filmed insulation .002 inch thick. Despite its reduced size, the insulation, according to the mfr., has dielectric strength and scrape resistance 200% greater than comparable insulation. The first application is expected to be in magnet wire for high performance equipment, where failures are often due to insulation breakdown.

COMPUTERS DIAL DIRECT with the new data subset being developed at Bell Labs. Experimental models, about the size of a typewriter, send 1,000 words a minute--sixteen times the speed of conventional teletypewriter systems. A wide variety of data can be handled, including printed matter and computer data. Information is placed on magnetic tape at the normal output speed of the typist, computer, or business machine. The tape is then inserted into the data subset, which is connected to a standard office phone. After another phone is dialed in the ordinary manner, the transmitting and receiving subsets are switched on and the high speed data transmission accomplished Engineers predict that computers and automatic business machines will dial each other direct to exchange the information necessary for their programmed deliberations -probably at night, during off-peak hours.

NEXT MONTH—Don't miss El's analysis of new BATTERY developments, including an up-to-date round-up of the new types introduced during the past year.

#### SUBMARINE SIMULATOR

Instrumentation data for diving, submerged running, and surfacing is obtained in this "submarine simulator" at the landlocked marine research center of Sperry Gyroscope Company.





Vitreous-enamel power wirewound resistors have been proven to be extremely reliable units by both the military services and the communications industry. Sprague Blue Jacket resistors are among the most outstanding resistors of this type. They can be counted on to withstand the most severe duty

In the manufacture of Blue Jacket resistors, selected resistance alloys are wound on special steatite cores. The expansion coefficient of the vitreous-enamel coating is closely matched to that of the steatite base in order to ensure positive protection of the resistance winding. The terminal bands are

made of an alloy which also closely matches the steatite base in expansion characteristics.

Sprague furnishes a wide range of sizes and power ratings in these reliable resistors, both in axial-lead and tab-terminal designs. For complete details on commercial types, write for Engineering Bulletin 111B. Military styles are shown in Sprague Catalog 101.

Sprague deliveries are prompt! Prices are right! Send your next power resistor order to:

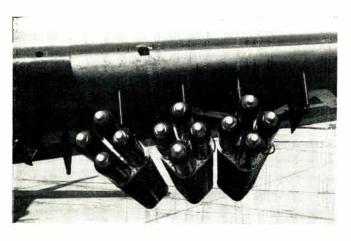
Sprague Electric Co. 233 Marshall Street

> North Adams. Massachusetts.



RESISTORS . CAPACITORS . MAGNETIC COMPONENTS . TRANSISTORS . INTERFERENCE FILTERS • HIGH TEMPERATURE MAGNET WIRE • PULSE NETWORKS • PRINTED CIRCUITS

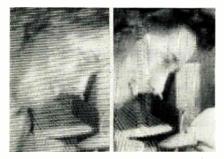
# As We Go To Press...



New Zuni 5-inch rocket has folding fins which permit mounting four rockets in combination launcher-transporter.

# TV Picture Tube Eliminates Dark Lines

A major step toward larger-size TV screens in the home has been made at Westinghouse Research Labs., Pittsburgh, Pa. A simple but basic change in picture tube construction—splitting one of the



"Wobble-beam" tube at right decreases line structure and increases picture detail.

cylindrical metal focussing grids—makes it possible to impart a 15 MC "wobble" to the electron beam, thus causing a controllable widening of the trace. Result—no dark lines.

# Air-To-Air Rocket "Zuni" Joins Fleet

A new five-inch high velocity rocket, named "Zuni" after a Pueblo Indian tribe, has been approved for operational use in the U. S. Fleet. It will replace the World War II HVAR rocket in new high - performance aircraft. Zuni is a folding fin, solid-propellant rocket, designed for use on fighter and attack aircraft and for both air-to-ground and air-to-air attack. It will be highly effective against tanks, pillboxes, gun emplacements, trains, ammunition and fuel dumps, and small ships. As an air-to-air weapon, its high velocity and short time to target promise a high kill potential against aircraft.

# New Name

RCA has changed the name of its Tube Division to the RCA Electron Tube Division.

#### NEW ARIZONA ELECTRONICS PLANT





# Pentagon To Use 300,000 Watt SSB

A powerful new short wave transmitter which can beam vital defense messages to any spot on earth, even through severe interference, will be installed for Pentagon use. Named the "World Spanner," the powerful SSB transmitter was designed for use as part of the Army's world-wide communication network by the U. S. Army Signal Engineering Laboratories at Fort Monmouth, N. J., and by Conti-



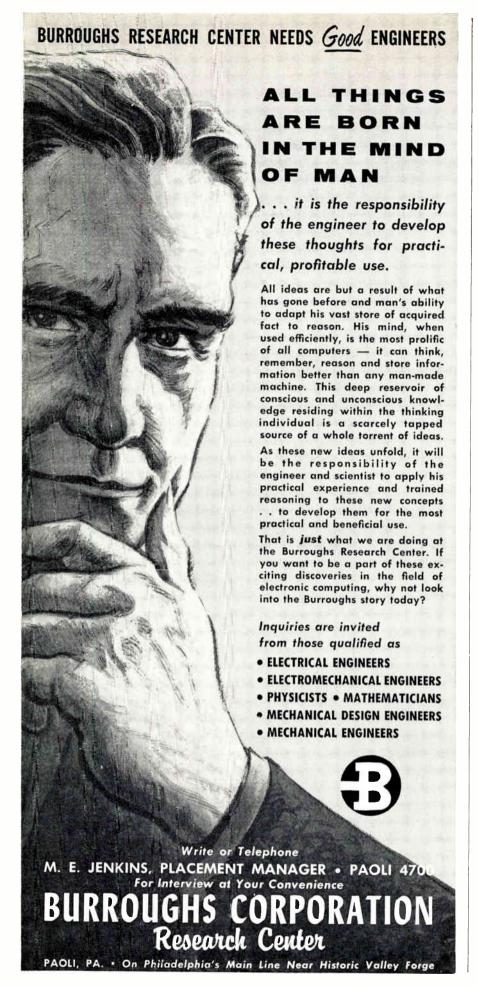
Signal Corps engineer Ralph Johnson inspects fittings as William Mitchel, of Continental Electronics, Inc. lowers a 150-pound tube into its socket in Pentagon's new transmitter

nental Electronics, Inc., of Dallas, Texas.

Nominal power of the new equipment is 300,000 watts, but SSB refinements and a new beam antenna are expected to boost effective power to 24 million watts. Final is built around a 150-lb vacuum tube made by Radio Corporation of America—with 18,000 volts on the plate.

The multi-band transmitter can go on the air at any one of ten previously set frequencies in the 4 to 30 MC range by the turning of a single switch. The transmitter can send 64 teletypewriter messages or four separate voices at the same time

More News on Page 10



# **ELECTRONIC INDUSTRIES**

& Tele-Tech

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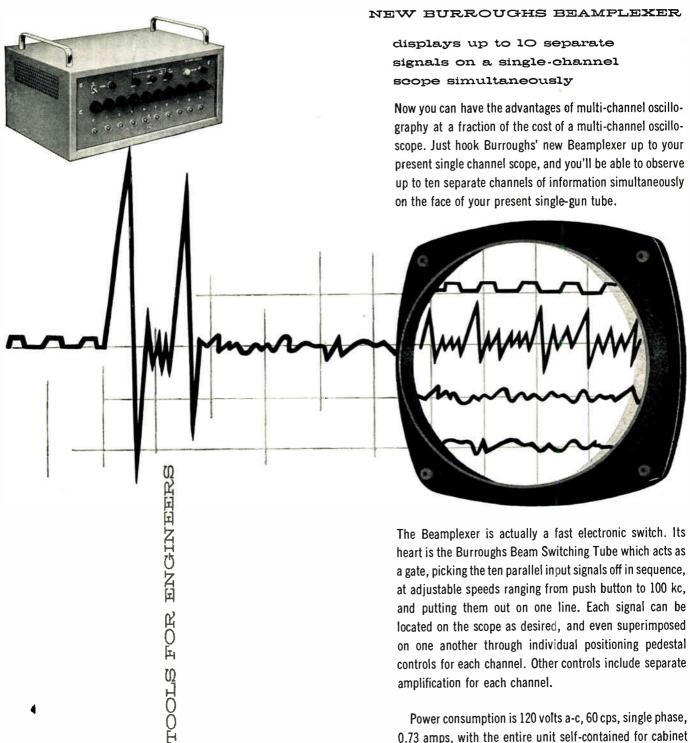
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# make your scope multi-channel



a gate, picking the ten parallel input signals off in sequence, at adjustable speeds ranging from push button to 100 kc, and putting them out on one line. Each signal can be located on the scope as desired, and even superimposed on one another through individual positioning pedestal controls for each channel. Other controls include separate amplification for each channel.

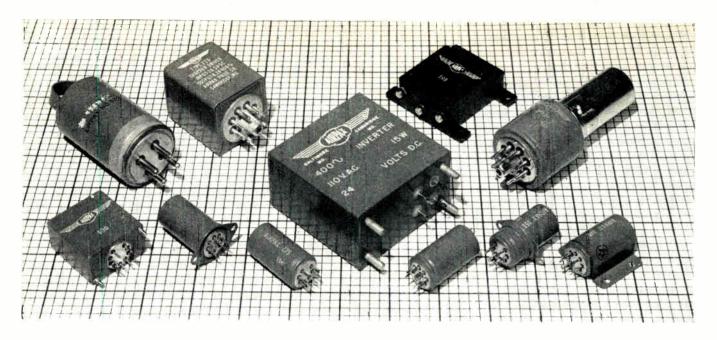
Power consumption is 120 volts a-c, 60 cps, single phase, 0.73 amps, with the entire unit self-contained for cabinet or standard relay rack mounting.

Full details on how the Beamplexer can make your scope more useful . . . make your time more efficient . . . are given in Technical Bulletin 346 available for the asking. Write for your copy.

BURROUGHS CORP.

Department D

- **ELECTRONIC INSTRUMENTS DIVISION**
- 1209 Vine Street Philadelphia 7, Penna.



These accurately made components represent products available to you that meet rigid industrial or military requirements.

**Choppers**—A variety of Airpax choppers enables you to select the appropriate type for each application. They are manufactured on precision machines to assure you of uniformly high quality. These choppers are used in instruments and automatic control. Contacts are rated for 0 to 2 milliamperes at up to 100 volts. Drive is 6.3 RMS volts.

	Typical Sig	nal Choppe	rs
Frequency (CPS)	7-Pin Base Type	Octal Base Type	Miniature Solder Lug Type
	Standard	Environment	•
60	175, 176	170, 586	178, 179, 800*
400	300, 400	520, 580	
	High Te	mperature	
400	150, 310, 320	100	311 thru 314
	High V	ibration/	
400	350		351 thru 354

\*Double-pole double-throw, split reed

**400-CPS Chopper Drivers**—Chopper drivers enable you to use 400-CPS choppers even if 400-CPS drive power is not otherwise available. There are two types: Series 202 is for use in 60-CPS powered equipment with conventional heater and plate voltages. Series 220 is for use in battery powered equipment.

**Vibrators**—Airpax pioneered high-frequency power vibrators because of reduced size and weight of associated transformers and chokes.

Type 500 vibrator is a 400-CPS interrupter unit for use with moderate continuous or heavy intermittent loads. It is hermetically sealed, operates in any position. This vibrator and variations are used in airborne transceivers, guidance equipments, and portable sets.

Type 505 is a center-pivoted vibrator rated for 28 DC volts input and output at 250 CPS. It is designed to withstand vibrations of 10 G from 10 to 1,000 CPS; time efficiency is 46%.

Inverters—Using 400-CPS vibrators, Airpax custom designs and manufactures compact low-power inverters. By way of example, Type 512 is hermetically sealed, weighs 14 ounces, occupies 7.5 cubic inches, withstands accelerations of more than 50 G, and has an efficiency of 75%. Its output is essentially a square wave, 15 watts at 110 RMS volts, 400 CPS. Input is 6, 12 or 24 DC volts.

Pulse Transformers—For preferred blocking oscillator circuits, use Airpax Pulsite transformers. These compact, hermetically sealed units are available as a kit covering many requirements of pulse circuits.

## **Characteristics of Pulsite Transformers**

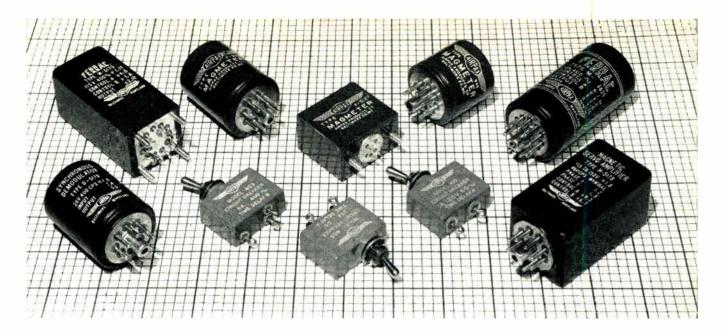
Pulse Width (usec)	Loc (mh)	Ll (uh)	Cd (uuf)	Type
0.1	0.08	6	7	PT-1081
0.2	0.13	14	7	PT-1082
0.3	0.30	25	8	PT-1083
0.5	0.80	30	8	PT-1084
1.0	2.4	35	9	PT-1085
2.0	7.8	125	10	PT-1086
5.0	28	400	10	PT-108 <i>7</i>
10.0	153	1,000	12	PT-1088

**Custom Transformers**—Airpax designs and manufactures custom transformers. The largest Fosterite facility in the country is at Airpax; units 3 x 3 x 4 feet can be baked and vacuum impregnated, or large batches of small units can be processed quickly. In addition to vacuum impregnated and molded units for airborne equipment, Airpax manufactures hermetically sealed MIL-T-27A units. Airpax has supplied transformers in quantity for operation in ambients to 175 C.

**Sheet Metal Facilities**—A complete machine and sheet metal shop complements the transformer production. The shop has sufficient capacity to fabricate custom metal parts, such as chassis and cases.



MIDDLE RIVER • BALTIMORE 20, MD.



Thorough testing and inspection assure you that these Airpax components meet critical requirements for control and guidance.

Magnetic Amplifiers—Ferrac magnetic amplifiers are highly stable and linear DC amplifiers. You can use them in analog computer portions of guidance and control equipment. Several types are available to meet usual applications. Each amplifier has two input windings; output is electrically isolated from input and power supply. At stand-by, amplifier draws about 1.5 watts; with full signal, 2.5 watts at 115 RMS volts, 400 CPS.

#### **Instrument Magnetic Amplifiers**

Application	Plug-In Type	Bolt-Down Type
General Purpose	M-943	M-5174
Integrator	M-1039	M-5175
Thermocouple	M-1040	M-5176
High Gain	M-1057	M-5177

**Synchronous Demodulators**—So that 400-CPS synchros can be used with DC control circuits, Airpax developed highly accurate ring rectifiers. Two types are:

Type D-5170 has a highly accurate null for use in zero-seeking equipments. A null accuracy (exclusive of the synchro) of 9 minutes can be obtained with it.

Type D-5171 has a wider linear range for proportional control equipments. It presents about 20,000 ohms to the control transformer.

Servo Amplifiers—Airpax magnetic power amplifiers control current to both phases of 400-CPS instrument servo motors. As a result, they draw little stand-by power. This characteristic results in up to 60% saving in stand-by power, compared with some other servo amplifiers. Standard units deliver 3.5, 6, or 10 watts per phase.

#### Typical Ratings, Type M-5178

Input—Two identical control windings of about 125 DC ohms each Sensitivity—7.5 DC milliamperes into either control winding produces 6 watts output to each phase

Power—115 to 150 RMS volts at 400 CPS, approximately 21 watts at maximum output, only 3 watts during stand-by

Connections—Octal plug-in base, hermetically sealed Dimensions (Max.)—1 % " square base, 3" seated height Weight—Approximately 14 ounces

Frequency Detectors—Magmeter frequency detectors convert AC signals to DC outputs. The output is linearly

proportional to input frequency. These detectors are relatively insensitive to changes in signal amplitude and wave shape. They are used in telemetering, tachometers, and for pulse-rate measurement. Standard Magmeter detectors require about 1 watt of signal input. They can be driven directly from 120-volt power lines, from vacuum-tubes or transistors. Plug-in units fit octal sockets; bolt-down units have solder lugs.

#### **Magmeter Frequency Detector**

Frequency (CPS)	Line or Plug-In	Tube Drive Bolt-Down	Transistor Drive Plug-In
0-50	F-945	F-5121	F-5156
0-100	F-979	F-5122	F-51 <i>57</i>
0-200	(F-979)	F-5123	F-5158
375-425	F-992	F-5133	
0-500	F-5146	F-5124	F-5159
0-1000	F-980	F-5125	F-5160
0-2000	F-981	F-5126	F-5161
0-5000	F-947	F-5127	F-5162

Circuit Breakers—Electronic circuits can be protected by Airpax miniature magnetic time delay circuit breakers. Trip level is unaffected by temperature. Units are rated up to 50 DC volts or up to 120 RMS volts; the latter either for 60 or for 400 CPS. Trip sensitivities are as low as 50 milliamperes; current ratings are available up to 10 amperes. There are two standard time delays: Rapid response A for protecting conventional electronic equipments, and slow response B for equipments that draw substantial starting surges.

#### Miniature Circuit Breakers

Rating	Series Type	Shunt Type	Relay Type
50 DC volts	401-	402-	403-
120 RMS volts at 60 CPS	410-	411-	412-
120 RMS volts at 400 CPS	420-	421-	422-

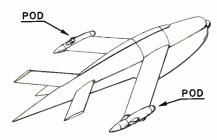


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# As We Go To Press . . .

# Camera Pods

In future tests of air-attack missiles, hits or near misses will be recorded by camera pods developed by Bell & Howell Co., Chicago, Ill. Two pods, each with four highspeed cameras, and mounted on the



Drone target aircraft mounts pods containing recording cameras. Full spherical coverage of missile's approach is obtained.

drone target, give full spherical coverage of the missile's flight as it nears the moving target. The system is in production and is available to companies working on missile-scoring or rocket-scoring systems.

# **P-C Developments**

Vast reductions in time and tooling for printed circuit buffing are claimed with a new process of Maplewood Companies, Livingston, N. J. Production rates exceeding 60 square feet per minute are attained. Another new development is a chemical process for depositing pure metallic copper on plastics and other non-conductive surfaces. The three solution system is a development of Atkinson Laboratory, Inc., Hollywood, California.

# New RETMA Standards

These important new RETMA standards are now available: RS-159, "Chassis Pickup of Vehicular Receivers," 25¢; RS-177, "Vibrator Power Transformers," 30¢; "Solderability Test Standard," 25¢; and RS-179 "Classification of Tube Testers," 25¢. Copies may be obtained through RETMA Engineering Dept., 11 West 42nd St., New York 36, N. Y.

MORE NEWS ON PAGE 13

# **ELECTRONIC SHORTS**

- ▶ Grant of \$16,500 was awarded Case Institute of Technology by the Ford Foundation Fund for the Advancement of Education extending support for experimental two-way closed-circuit television as a teaching aid.
- ▶ A 5-yr. program of the Dept. of Commerce, an expansion of one announced a year ago, calls for the purchase and installation of modern control systems at air terminals. The \$800-million program will prepare the nation's airports for the advent of the jet age, only 2 yrs. off.
- ▶ The U. S. and Great Britain may be relying too much on an early development of ballistic missiles. Thomas G. Lanphier, Jr., Vice-President of the Convair Div., General Dynamics Corp., declares unmanned weapon systems will not become available until several years after this nation's conventional defense structure is scheduled to crumble.
- ▶ The USAF's jet-powered vertical takeoff and landing research airplane, the Ryan X-13 Vertijet. made its first complete flight sequence from vertical takeoff to horizontal flight to vertical landing. The flights, at Edwards AFB, culminated an 18-month flight test program.
- ▶ Datics Corp., Fort Worth, Texas, data processing, computing, and data reduction firm, opened a Dallas District office in the Texas Bank Bldg., and signed a contract with IBM Corp. for a \$2\\(\frac{1}{4}\)-million 705 Electronic Data Processing Machine.
- ▶ Less than 3 yrs. after ElectroData delivered its first Datatron, the production rate has been increased to one system every 5 days. Shipment of 6 Datatron electronic data processing systems in 1 month set a new record for the ElectroData Div. of Burroughs Corp. ElectroData has installed 147 computers nationwide.
- Members of the Electronic Transformers Industry Advisory Committee advised that certain Government-furnished test equipment is needed in the plants of electronic transformer manufacturers to assure required military production under full mobilization. Most manufacturers cannot afford the test facilities needed to produce components meeting the increasingly rigid military specifications.
- ▶ A new line of electronic test instruments, in kit form, has been launched by the Paco Electronics Co., Inc., a newly formed division of the Precision Apparatus Co. The kits are expected to find a wide application in electronic hobbies, amateur radio science education, and technical schools, as well as industrial testing and quality control.
- ▶ Flushed etched circuits for the printed wiring industry developed by The Mica Corp., Culver City, Calif., are resistant to shock, vibration, and abrasion and exhibit excellent heat resistance under conditions encountered in dip, roll, and hand soldering.
- ▶ State Department approval has been granted for the RAF to purchase the LABS systems—a low altitude bombing system that enables low flying jets to deliver atomic bombs—from the Aeronautical Div. of Minneapolis-Honeywell Regulator Co. The hit-and-run bombing system enables jets to skim in toward prime targets at tree-top levels, pull into a tight acrobatic Immelmann-turn maneuver miles from the target, "lob" a conventional or nuclear bomb high into the air, and then escape the blast area before the bomb arches down to the target. The system can be used also in over-the-shoulder bombing when the fighter bomber must pass over the target and toss the bomb back toward it as the plane streaks to safety.
- ▶ The results of preliminary design study of a vehicle which will permit the recovery of nuclear emulsions which could thus be exposed for a considerable period of time to the primary cosmic radiation were presented at a meeting of leading scientists at the Martin Co., Baltimore, Md. The study concerns the feasibility of recovering the scientific payload of rocket research vehicles which have spent a considerable amount of time out of the atmosphere.



# it's our eighth!

We are proud to further expand our facilities in the West with the opening of our eighth office in Tucson, Arizona. Neely Enterprises' growing family of offices offer the finest and most complete service to answer the increasing need for instrumentation in the electronics industry.

Each of the eight offices are strategically located and staffed by fully qualified engineers with broad electronic instrumentation background. This on-the-spot representation by a Neely engineer can save you and your organization valuable engineering time.

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SAN FRANCISCO OFFICE 501 Laurel Street San Carlos Phone: LY 1-2626

SACRAMENTO OFFICE 1317 Fifteenth Street Phone: GI 2-8901

SAN DIEGO OFFICE 1055 Shafter Street Phone: AC 3-8106

ALBUQUERQUE OFFICE 107 Washington Street, S.E.

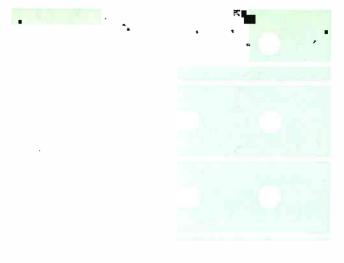
Phone: 5-5586

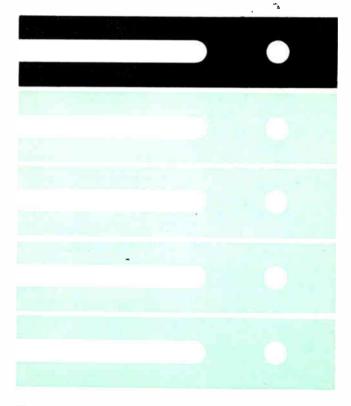
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Tuning Fork Resonators, the ultimate in precision audio frequency control.

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PHILAMON LABORATORIES INC.



90 Hopper Street, Westbury, Long Island, N. Y. EDgewood 3-1700

# As We Go To Press . . .

WHITE ALICE



White Alice, Alaska's new tropospheric scatter communications system, uses 60-foot antennas such as this. White Alice is a project of Radio Engineering Laboratories.

# Important IGY Role For NBS Boulder Labs

The ionosphere branch of one of the three world-data centers for collecting, analyzing, and disseminating information on IGY studies will be located at the Boulder Laboratories of the National Bureau of Standards, in Boulder, Colorado.

During the forthcoming International Geophysical Year, ionosondes located at 180 strategic points over the entire earth will send radio pulses of various frequencies up toward the ionosphere. The return time of the reflected signal will be noted and the height and density of the reflecting layers determined.

Scientists at Boulder Labs will plot all this information on graphs and maps in an attempt to gain a global picture of the ionosphere and its peculiarities. Coordination of these observations with determinations of sunspot activity and other measurements may add further to our knowledge of the Ionosphere and causes of its variations.

IGY scientists hope to gather enough information about the ionosphere so that improved predictions can be made as to when direct radio communications can be made. Other coordinated studies may provide information concerning the effects of sun and moon gravitational forces. strong winds, and bombardment of the ionosphere by meteors.

# Coming Events

A listing of meetings, conferences, shows, etc., occurring during the period June to December that are of special interest to electronic engineers

June 3-7: 27th Norelco X-ray Diffraction School, by Philips Electronics, cago.

June 4-6: 6th Annual Convention & Trade Show, sponsored by the National Community TV Assoc., Inc.; Aug. 23-25: Annual Conv. & Seminar, in Pittsburgh, Pa.

June 4, 11, 18: Industrial Writing Institute, by Western Technical Writing Institute; at Statler Hotel, Los Angeles.

June 6-7: 1st Annual Conf. of Production Techniques, sponsored by House, Chicago. the IRE; at the Willard Hotel, Sept. 4-6: Conference on Magnetic Washington, D. C.

June 6-8: Annual Meeting, sponsored by the National Society of Professional Engineers; at the Statler Ho- Oct. 4-9: 82nd Semi-annual Conv., by tel, Dallas, Tex.

June 10-11: 2nd Symposium on Applied Reliability, sponsored by RETMA; at the Hotel Syracuse, Syracuse, N. Y.

June 14: Conference on Plastics for Electronics, sponsored by the Society of Plastics Engineers; at the Lowell Inst. of Tech., Lowell, Mass.

June 16-21: Annual Meeting, sponsored by the American Society for Testing Materials; at Chalfonte-Haddon Hall, Atlantic City, N. J.

June 17-19: 1st National Meeting, sponsored by IRE Military Electronics Group; at the Sheraton-Park Hotel, Washington, D. C.

June 17-20: Summer Annual Meeting, sponsored by IAS; in Los Angeles. June 19-21: 12th National Meeting, sponsored by The Association for Computing Machinery, Inc.; at the University of Houston, Houston, Nov. 25-26: IAS International Meet-

June 24-28 Summer General Meeting, sponsored by the AIEE; in Mon- Dec. 8-11: Eastern Joint Computer treal, Quebec, Canada.

June 27-July 1: Electronics in Automation, sponsored by the British IRE; at the Univ. of Cambridge, London, England.

July 15-18: Music Industry Trade Show & Conv., sponsored by National Assoc. of Music Merchants; at Palmer House, Chicago.

July 20-23: National Audio-Visual Conv., by National Audio-Visual Assoc.: at Morrison Hotel, Chicago.

August 12-16: Analog-Digital Conversion Techniques, by Mass. Inst. of Tech.; at M.I.T., Cambridge 39. Aug. 19-30: Management Sciences

and Computer Tech. Courses, by

Univ. of Mich.; at Ann Arbor, Mich.

Inc.; at the Hotel Morrison, Chi- Aug. 20-23: Western Electronic Show & Conv. (WESCON), sponsored by IRE and WCEMA; at Cow Palace, San Francisco.

> sponsored by National Alliance of TV & Service Assn's.; at Sheraton Hotel, Chicago.

> Aug. 30-Sept. 1: ARRL National Conv., sponsored by American Radio Relay League; at the Palmer

> Amplifiers, sponsored by IRE & AIEE, at Penn Sheraton Hotel; Pittsburgh, Pa.

> SMPTE; at Sheraton Hotel, Philadelphia.

Oct. 7-9: National Electronics Conf., sponsored by IRE, AIEE, RETMA & SMPTE; at the Hotel Sherman, Chicago.

Oct. 24-25: Computer Applications Symp., by Armour Research Found., at the Sherman Hotel, Chicago.

Oct. 27-29: East Coast Conf. on Aeronautical and Navigational Electronics, by IRE; at Lord Baltimore Hotel & 7th Reg. Armory, Baltimore, Md.

Oct. 27-29: Radio Fall Meeting, by IRE; at Sheraton Hotel, Rochester.

Oct. 31-Nov. 1: Electron Devices Meeting, by IRE; at Shoreham Hotel, Washington, D. C.

Nov. 15-16: New England Radio-Electronics Meeting, by IRE; at Mechanics Hall, Boston, Mass.

ing, by IAS; at Canadian Aeronautical Inst., Canada.

Conf., by IRE, ACM, and AIEE; at Park Sherator Hotel, Washington, D. C.

#### Abbreviations:

ACM: Association for Computing Machinery AIEE: American Inst. of Electrical Engrs.

IAS: Inst. of Aeronautical Sciences IRE: Institute of Radio Engineers

ISA: Instrument Society of America

NEDA: National Electronic Distributors Association

RETMA: Radio-Electronic-Television Manufacturers Assoc

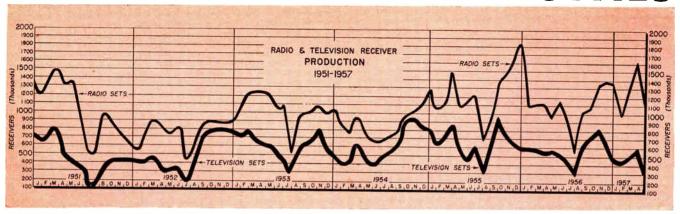
SAMA: Scientific Apparatus Makers Assoc. SMPTE: Society of Motion Picture & TV En-

WCEMA: West Coast Electronic Manufactur-

# Facts and Figures Round-Up June, 1957

# **ELECTRONIC INDUSTRIES**

# TOTALS



# Box Score of Electronic Industry Statistics on the West Coast 1956

# WEST COAST PICTURE

Annual billings in California increased from \$25 million per year in 1942 to more than \$400 million in 1945.

During 1950-54 the W.C. electronic industry has doubled in volume of each year.

The 11 Western states have 641 of the nation's approximately 4200 electronics firms. Last year they grossed \$1,690,000,000 of the total \$9,700,000,000 national electronics product. Western electronics now accounts for 15% of the number of companies, 16% of sales, and 18% of employment in the industry nationally.

In Southern California, and in the San Francisco Bay Area, the ratio of engineers to total population is the highest of any locale in the country. In Southern California electronics is second only to airframe manufacturing in employment and manufacturing significance. Approximately 12% of all persons employed in manufacturing plants in the area are in some phase of electronics work.

Ninety percent of the growth of Western electronics has been built on the military dollar.

Our market analysis people tell us that we will have a \$15 billion electronics industry nationally by 1965. If they are correct, and our Western segment of the industry faces its future realistically, its rate of growth should continue to be higher than the rest of the country. By 1965 the West's percentage of output should increase from 16% to 20% and its dollar volume increase by more than one-third. On this basis we can look forward to a \$3 billion Western electronics industry within eight years.

From an article by H. Leslie Hoffmann, pres. of Hoffmann Electronics Corp., Los Angeles, in "Signal" magazine.

San Diego County:	1. No. of Electronics firms.       26         2. Employment       2,300         3. Sales       \$ 30,000,000
Phoenix-Tucson Areas:	1. No. of Electronic firms.       13         2. Employment       6,000         3. Sales       \$ 55,000,000
Portland-Seattle (does not include Boeing activity)	1. No. of Electronic firms       12         2. Employment       6,000         3. Sales       \$ 12,750,000
Los Angeles & Orange Counties:	1. No. of Electronic firms.       470         2. Employment       73,000         3. Sales       \$1,000,000,000
San Francisco-Oakland & Peninsula	1. No. of Electronic firms.       75         2. Employment       20,000         3. Sales       \$ 260,000,000         4. Annual Payroll       \$ 80,000,000
Balance 11 Western States	1. No. of Electronic firms       45         2. Employment
TOTAL—Electronics Industry —11 Western States, 1956	1. No. of Electronic firms.       641         2. Employment       112,000         3. Sales       \$1,690,000,000
TOTAL—Electronics Industry —USA, 1956	1. No. of Electronic firms.       4,200         2. Employment       610,000         3. Sales       \$9,700,000,000

# 11 WESTERN STATES AS A PERCENT OF NATIONAL ELECTRONICS INDUSTRY

1. 15% of electronic firms 2. 18% of employment 3. 16% of sales

#### Principal Growth Areas

# SAN FRANCISO-PENINSULA AREA

Expect the value of their electronic facilities to expe	and roughly 30%		
Value Electronics Facilities — 1956	\$89,000,000	,-	
New Facilities — 1957	\$32,000,000		
Sales — 1956	\$260,000,000		
Projected — 1957	\$321,000,000		
Sq. Feet of Plant Facilities — 1956	3,500,000		
Projected — 1957	1,700,000 (	an increase	of 49%1

## LOS ANGELES AND ORANGE COUNTIES

	New		Expanded		Total	
	No.	Capital	No.	Capital	No.	Capital
	Units	Investment	Units	Investment	Units	Investment
1956	24	\$7,500,000	35	\$31,200,000	59	\$39,000,000
1955	20	8,796,000	51	24,469,000	71	33,265,000

Total capital investment for one year (1956) was roughly 40% of San Francisco area's total value of electronic facilities in 1956.

# FROM START TO FINISH...WITH COMPLETE OR PARTIAL AUTOMATION

# KAHLE

# **MACHINES**

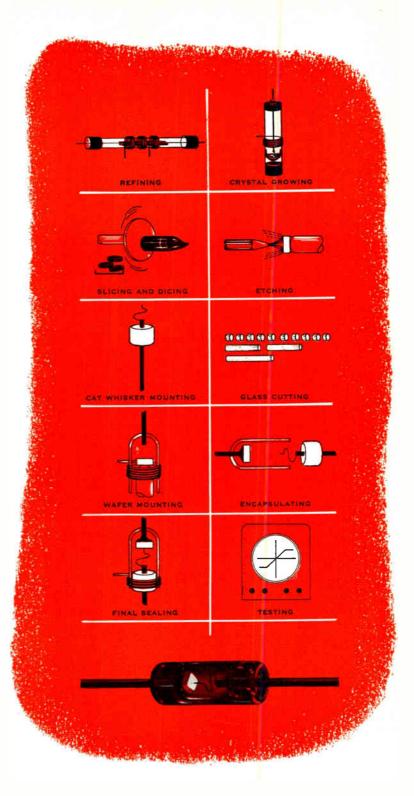
FOR

# EVERY STEP OF DIODE MANUFACTURING

Manufacturers know there are no short cuts to diode quality. Each production phase is a vital one . . . because of this, Kahle designs these machines to account for and accurately control every possible factor . . . from the initial cutting of the glass tubing, to the growing of the Germanium or Silicon crystal, to the final sealing and testing of the diode.

Illustrated are a few of the intricate operations that can be accomplished with high speed Kahle Automatic Machines . . . because manufacturing needs vary so widely, Kahle's skilled engineers will develop individually "customized" machines or completely "automated" production lines to meet your specific requirements. 25 years' experience can help with your production problems.

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# EAHLE ENGINEERING COMPANY

GENERAL OFFICES: 1310 SEVENTH STREET NORTH BERGEN, N. J. PLANTS:

SEVENTH STREET, NORTH BERGEN, N. J. HUDSON AVE., UNION CITY, N. J.

# Electronic Industries' News Briefs

# Capsule summaries of important happenings in affairs of equipment and component manufacturers

#### EAST

LENKURT ELECTRIC CO. has opened Sales and Engineering offices in Washington, D. C., to provide increased service to military and civil federal agencies, industrial firms, and other customers in the eastern U. S. Joseph R. Sherman, newly appointed Manager of the eastern area commercial relations, will manage the Washington office.

GE'S TECHNICAL PRODUCTS DEPT. has announced receipt of a contract from the U. S. Army's Signal Supply Agency for a closed-circuit color TV system for use at the Missile Test Center at Cape Canaveral, Fla. The system will be used by Army observers for close up viewing of missile launching and for tracking the high speed missiles up to a possible altitude of 100,000 ft.

NARDA CORP. has completed preliminary plans with the Kama Instrument Corp., Mineola, N. Y., manufacturers of fine wire wound components under the Government NIKE program, to become a wholly-owned subsidiary.

WESTINGHOUSE RESEARCH LABORATORIES has formed a physics projects laboratory to expedite the development of electronic and related devices. Among the projects assigned to the new group is continued development of the image multiplier tube—a new type of electronic tube recently announced by the laboratories.

BENDIX RADIO DIV. has announced that its Aviation Electronics Products Dept. will supply extensive airborne electronic equipment installations for the new Bristol Britannia Transport that Northeast Airlines has ordered for its Boston-New York-Miami run.

CANNON ELECTRIC CO. will move all its manufacturing and service facilities from East Haven, Conn., to its new Salem plant located at Salem, Mass.

ELECTRICAL INDUSTRIES, formerly located in Newark have announced completion of a new plant situated in Murray Hill, N. J. New production equipment, improved manufacturing processes, and new test equipment make it possible to expand customer service on both standard terminals and custom glass-to-metal seals.

GENERAL INSTRUMENT CORP. has acquired Radio Receptor Co., Inc., of Brooklyn, N. Y. This is the third acquisition by GI in 12 months.

GENERAL TRANSISTOR CORP. has purchased a 20,000 sq. ft. building and the adjoining 20,000 sq. ft. of ground at 91-27 138th Place, Jamaica, N. Y. The acquisition brings to a total of 3 the number of General Transistor plants.

SEL-REX CORP. has acquired a 40,000 sq. ft. 2-story building in Nutley, N. J., to house offices, manufacturing departments, and laboratories.

SYLVANIA ELECTRIC PRODUCTS, INC., has started construction on a new facility at the Waltham Laboratories for expanded research and development in missile systems.

UNIVERSAL PRODUCTS CO., INC., Wilmington, Del., has acquired C. P. Clare & Co., Chicago relay mfr.

UNIVERSAL TRANSISTOR PRODUCTS CORP. is the new name for Universal Atomics Corp., 50 Bond St., Westbury, N. Y.

GE's HEAVY MILITARY ELECTRONIC EQUIPMENT DEPT. has been awarded an \$83-million definitive contract for work in connection with guidance of the Atlas intercontinental ballistic missile.

WALTER KIDDE NUCLEAR LABORA-TORIES, INC., Garden City, N. Y., has been awarded a contract by the U. S. Maritime Administration for design of the first atomicpowered surface ship, along with George G. Sharp, Inc., New York marine design firm.

#### MID-WEST

BENDIX AVIATION CORP. has established a midwestern regional office for its Computer Div. in the Palmolive Bldg., 919 N. Michigan Ave., Chicago.

RADIO CORP. OF AMERICA'S Bizmac System has been demonstrated by the Army Ordnance Corps at its Tank-Automotive Command headquarters in Detroit. The system opens the way for a sharp cut in world wide stocks of spare parts in the next two years. It will reduce months of paper work to minutes of push-button operation.

BURROUGHS CORP.'S Tiremen Ave. plant in Detroit will more than double its size when construction of a second manufacturing building is completed. This will bring their total manufacturing space to 220,000 sq. ft.

HEATH CO., Benton Harbor, Mich., has broken ground for the construction of a new 142,000 sq. ft. plant. The modern 1-story building will house all of Heath's operations.

BARBER-COLMAN CO. has established a Wheelco Instruments Division, Sub-branch office at 20 Leland Avenue, Columbus 14, Ohio, under H. J. Hoffman.

BRUSH ELECTRONICS CO. opened a factory branch office at 1960 S. LaCienega Blvd., Los Angeles.

COMMUNICATION ACCESSORIES CO. has moved its facilities from Hickman Mills, Mo., to Highway 71 By-Pass and those on U. S. 50 to Lee's Summit, Mo.

#### FOREIGN

RADIO CORP. OF AMERICA and MINNE-APOLIS-HONEYWELL REGULATOR CO. have announced the appointment of three Canadian companies as sub-contractors for engineering services relating to an electronic weapons system for the new RCAF AVRO CF-105 jet combat plane.

HYCON-PAGE, Cambridge, Mass., has signed a contract with the International Cooperation Administration to provide engineering services for the proposed development of a modern telecommunications system in Thailand, Vietnam, and Laos.

AVIATION ELECTRONIC PRODUCTS, BENDIX RADIO, announces that a direct sales and licensee agreement has been concluded with Computing Devices of Canada, Ltd.

MARCONI'S WIRELESS TELEGRAPH CO., LTD., Chelmsford, Essex, England, has supplied over 600 automatic direction finders to Vickers Armstrongs, Ltd., for use on the Vickers Viscount airliner.

#### WEST

NUCLEAR INSTRUMENTATION DIV., a new division of Gulton Industries, will be located in Albuquerque, N. M., and will produce monitoring instruments for geophysical equipment, high frequency telemetering systems, and nuclear reactor control and monitoring circuits.

PACKARD-BELL ELECTRONICS CORP. has become affiliated with Federal Electronics Corp., holder of TACAN rights to the Sigalert emergency warning system. Principal objectives of the affiliation are to provide Sigalert with the mass production facilities of Packard-Bell, new styling for the product, and a plan for marketing the warning system nationwide.

COHU ELECTRONICS, INC., newly formed, will provide financial and business management for electronics manufacturing and development companies. Lamott T. Cohu, President of Kintel, was elected head of the newly formed organization.

AMPEX CORP. has formed a new Professional Products Div., devoted exclusively to the production and sales of equipment for the professional recording and broadcasting industry.

CONSOLIDATED ELECTRODYNAMICS CORP. has acquired William Miller Instruments, Inc., Pasadena, pioneer custom manufacturer of dynamic recording and data-processing equipment. Two subsidiaries, Transformer Engineers and Pacific Transformer, were not included in the transaction.

HOFFMAN LABORATORIES, INC., doubled the size of the original plans for its new electronic research and development center now being constructed.

HUGHES AIRCRAFT CO. has formed a new dept. of Nuclear Products, to study the effects of nuclear radiation on electronic equipment. The department is headed by Dr. John W. Clark.

INTERNATIONAL BUSINESS MACHINES CORP, announced that the American National Insurance Co. of Galveston has contracted to make the largest purchase, so far, by private industry of a large-scale IBM computer.

SPECTROL ELECTRONICS DIV., CAR-RIER CORP., has just completed a new 2story building which doubles the previous floor space. A completely tooled prototype development center is included in the modern facilities.

APPLIED RADIATION CORP., Walnut Creek, Calif., began manufacture of high-power electron linear accelerators for processing foods, drugs and chemicals for nuclear research.

VARO MANUFACTURING CO., INC., Garland, Tex., has established a Transformer Div. to provide an integrated engineering and manufacturing facility for magnetic components.

MERCAST MANUFACTURING CORP., La Verne, Calif., producers of precision castings for the aircraft electronics and missile industries has purchased the First Street Corp., owners of the land and buildings occupied by Mercast.

AMERICAN ELECTRONICS, INC., Fullerton, Calif., will construct an 11,000 sq. ft. plant on a 20-acre site. The building will be

# Electron Tube News — from SYLVANIA

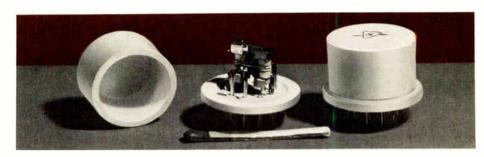
# Meeting industry's basic needs—everywhere in electronics

## — IN STACKED TUBES

Sylvania and Industry team up to evaluate "Tubes of the Future"

Handmade samples of Sylvania stacked tubes are being made available to interested military equipment manufacturers. These potential users are conducting experiments which provide them with basic experience in the application of these radically new vacuum "tubes of the future."

In turn they are supplying Sylvania with analyses of their findings on the potential advantages of stacked tubes, their resistance to heat, shock, vibration, altitude and humidity. This teamwork, the interchange of data and ideas, will benefit the entire electronics industry. It will speed the full-scale avail-



ability of stacked tubes and make possible refinements in design which will take full advantage of the inherent potentials of the stacked tube.

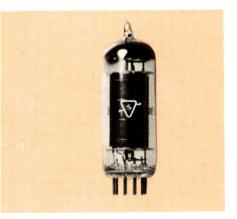
Presently, experimental sampling includes single cathode double triodes and an audio power pentode. Development is underway to include double cathode dual section tubes and RF and audio pentodes in the basic complements planned for military application.

Internal view and completely assembled ceramic stacked tube.



Exploded view of stacked tube demonstrates its rugged planar mount construction utilizing ceramic element spacers assembled on a ceramic stem. Note that element spacings are independent of the tube envelope.

## - IN TELEVISION



# Type 6CZ5 for 110° vertical deflection

The Sylvania Type 6CZ5 is a beam pentode intended primarily for use as a vertical amplifier or audio amplifier and has controlled heater warm-up for series string operation.

# Vertical Deflection Ratings (pentode connection)

Plote V	
Peak Positive Plate V2200 V absolute me	ax.
Plate Dissipation10 Watts me	ax.
Grid No. 2 V	
Grid No. 2 Dissipation 2 Watts me	ax.

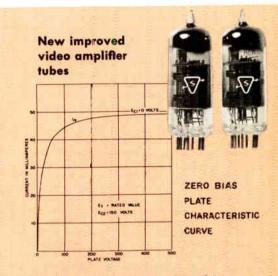


# Type 6DQ6A for 110° horizontal deflection

The type 6DQ6A has been upgraded for higher screen dissipation to meet the need for a horizontal deflection tube in 110° circuits. For series string circuits the type 12DQ6A features controlled heater warm-up time and 600 ma heater current.

#### **Design Center Ratings**

Peak Positive Plate V6000 volts abs.	max.
Plate Dissipation15 W	max.
Grid No. 2 Dissipation 3 W	max.
Zoro bire plate suggest 30	M ma



The sharp-cutoff pentode sections of the types 6AW8A and 6BA8A have been redesigned to exhibit a lower knee characteristic as shown in the graph. This permits a wider range of B+ supply voltages. In addition, pentode plates have been redesigned to increase dissipation from 3.0 to 3.25 watts.

# Meeting industry's basic needs

# -IN GUIDED MISSILES

# New Guided Missile Line "giant step" in the evolution of tube reliability

Sylvania offers the first line of tubes specifically designed and tested for guided missile application to meet the industry's need for greater reliability where severe conditions of environmental temperature and vibration exist.



Visual inspection—visual inspection criteria as outlined in MIL-E-1C is applied to Guided Missile Tube production. This highly stringent and definitive spec helps to insure optimum reliability.

This line of tubes and the new levels of reliability it achieves represent the newest step in Sylvania's continuing program of tube reliability.

The Guided Missile Tube Line, developed under a Buship contract, is the result of thorough investigation of the missile field and emphasis in design has been placed on those tube parameters most critical to missile requirements.

Features of the line include new reliability tests such as "white noise," more severe flicker short tests, and more stringent fatigue test.

Of equal significance is the manufacturability of the Guided Missile Tube Line. It is capable of being mass produced on present facilities to meet military requirements in time of need.

# 7 types meet the basic requirements for Guided Missile applications

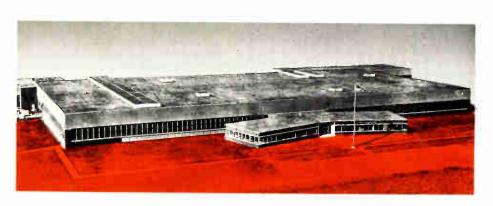
Sylvania exp. type	Description	Nearest Prototype
SN1774A	Sharp cutoff RF pentode	
SN1775A	emi-remote cutoff RF	entode6206
SN 1776A		
(6788) F	Pentode audio voltage	amplifier
SN1777A	Audio beam power per	ntode5902
SN1778A	Medium mu single trioc	le
SN1802A	Double, medium mu tri	ode6021
5N1803A	Double, high mu triode	6112

# — IN FACILITIES

Subminiature plant combines "area cleaning" with "point cleaning" to help achieve greater tube reliability.

Sylvania's plant at Burlington, Iowa, is the most modern plant ever designed, built, and equipped for the exclusive production of "Gold Brand" premium subminiature tubes.

The recent installation of complete air conditioning and air purification adds a new measure of control in the manufacture of the world's most reliable tubes.





"area cleaning"—new installation of complete air conditioning and air filtering keeps areas, such as mounting department, relatively free from dirt and dust.



"point cleaning"—immediate work areas are kept spotlessly clean as in mount assembly. Air currents under hooded tables isolate the mounting area from outside air.



temperature control—plays an important factor in manufacturing processes, such as heater preparation. Makes it possible to control the manufacture of small diameter 26.5 volt heaters for maximum uniformity and dependability.

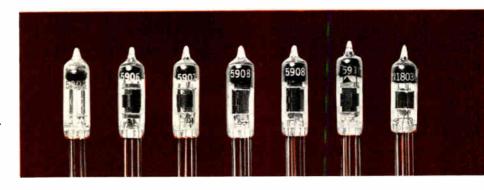
# everywhere in electronics

## - IN COMMUNICATIONS

# New Subminiature Types for 26.5 Volt Systems

Sylvania now offers the designer a line of subminiature tubes designed with 26.5 volt heaters for systems operating from 26.5 volt power supplies. Mechanical and electrical design are combined with a proved quality control program to assure a high degree of reliability. "Burn-in" period before test improves the life expectancy rated at 5000 hours under life test conditions.

In addition to types rated for 26.5 volts on all elements, other types are provided for higher plate voltage operation. Thus the designer will find greater circuit design flexibility through appropriate selection of types to meet his equipment needs.



Туре	Description	Heater Voltage	Plate Voltage
5903	Double diode with separate cathodes	26.5 V	Detector
5904	Medium Mu Triode		26.5 V
5905	Sharp cutoff RF pentode	26.5 V	26.5 V
5906	Sharp cutoff RF pentode	26.5 V	100 V
5907	Remote cutoff RF pentode .	26.5 V	26.5 V
5908	Pentode mixer		26.5 V
5916	Pentode mixer		100 V

#### - IN CATHODE-RAY TUBES

# Lightweight 17", 90° tube is TV's newest picture tube development

Following closely on the heels of the 110° picture tube, Sylvania announces a 17" tube with 90° deflection and standard neck diameter for portable TV application. The new 17" tube is three pounds lighter than the currently popular 17", 90° types.

Types are offered with either a 450 ma or 600 ma heater, for use with or without ion-trap. This new development makes it possible to design lighter portables while using readily available deflection yokes and existing circuitry.







# New Flying Spot Scanner Tube

The new Sylvania Type 5BNP16 flying spot scanner tube is a typical development in Sylvania's rapidly expanding special purpose cathode-ray tube program.

It is an inexpensive tube with shorter overall length (105%"). It employs low voltage electrostatic focus, an aluminized screen, and operates without ion-trap for simplified installation.





# BUSINESS REPLY CARD

(First Class Permit No. 46687, New York 19, N. Y.)

**SYLVANIA** 

SYLVANIA ELECTRIC PRODUCTS INC. 1740 Broadway New York 19, N. Y.

# Meeting industry's basic needs everywhere in electronics

## -IN TUNER AND IF TYPES







#### 6BN4

Medium mu triode designed for amplifier use in VHF tuners. Characteristics are similar to one section of the 6BZ7. 3BN4 and 2BN4 are series string versions with controlled heater warm-up.

#### 6CY5

Sharp cutoff tetrode designed particularly for amplifier service in VHF tuners. Types 4CY5, 3CY5, and 2CY5 offer controlled heater warm-up for series string circuits.

#### 6DK6

7-pin miniature sharp cutoff pentode. High transconductance at low plate and screen potentials make them especially useful as TV IF-amplifiers. Types 3DK6 and 4DK6 are series string versions.

# - IN RECTIFIERS



Type 12DF5

The 12DF5 is a T6½ full wave rectifier with separate cathode connections and center tapped heater. Its ratings are comparable to the type 12BW4. Unique construction adds flexibility in rectifier or doubler use and permits operation from 6- or 12-volt heater supply.

# - IN COMMUNICATIONS

# Type 407A Type 408A

Type 407A is a T6½ double triode with separate cathodes and a center-tapped heater for 20- or 40-volt operation. Its useful range extends to VHF for use as an amplifier, oscillator, multi-vibrator, or clamper.

Type 408A is a 7-pin, T5½ pentode for 20-volt heater operation. High Gm makes it desirable for amplifier service from audio through VHF ranges.







Here is a chart designed to fit your notebook or hang conveniently on the wall. It is a complete listing of all 600 ma and 450 ma tube types designed for series string operation.



# SYLVANIA

SYLVANIA ELECTRIC PRODUCTS INC. 1740 Broadway, New York 19, N. Y. In Canada: Sylvania Electric (Canada) Ltd. Shell Tower Bldg., Montreal

LIGHTING • RADIO • TELEVISION • ELECTRONICS • ATOMIC ENERGY

Please send add checked below.	litional information	on the items
☐ 110° Deflection ☐ 6AW8A—6BA8A ☐ Guided Missile Line ☐ 26.5 volt line	<ul> <li>90° Lightweight 17"</li> <li>5BNP16</li> <li>6DK6</li> <li>Series String Chart</li> </ul>	☐ Tuner Types☐ 12DF5
Name		
Company		



Use this handy
business reply card
to request
additional information
on these important new
Sylvania developments



SMALLEST-LIGHTEST

# WITH FILTORS INC.

By Filtors, smallest and lightest hermetically sealed latching sub-miniature relays, magnetically held no power drain and electrically reset. 2PDT, 4PDT and 6PDT

High shock and vibration resistance.

All made to MIL-R-25018 (USAF) and MIL-R-5757C,

Dry circuit relays available

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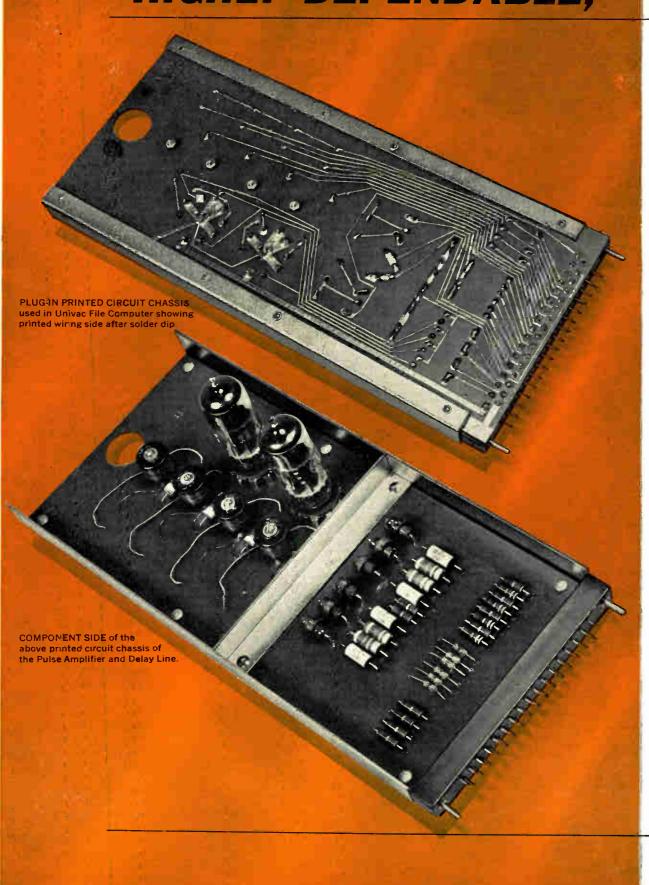
Leading manufacturers of hermetically sealed sub-miniature relays.

# FILTORS, INC.

Port Washington, Long Island, New York POrt Washington 7-3850

BURTON BROWNE/New York

# "HIGHLY DEPENDABLE,"



22

# says Remington Rand Univac\*

# of the

# REVERE ROLLED COPPER

# used in its Printed Circuits

A leader in the manufacture of digital computing systems. Remington Rand Univac utilizes the latest manufacturing techniques because computing systems require printed circuit boards completely free of defects.

In examining copper-clad laminated boards made with Revere rolled copper Remington Rand Univac said, "We found even the finest lines were freer from pits, pinholes and other imperfections. In addition, there were no detectable lead inclusions. Also, the rolled copper thickness is uniform. We get what we specify."

Designed and developed by Remington Rand Univac, digital computers use hundreds of printed circuits. Each one must operate according to specifications at all times. There can be no sacrifice of conductivity. Because of more uniform etching qualities Revere Rolled Copper is capable of producing better edge definition, allowing closer spacing of lines. A uniform solder coat under normal or automatic soldering operations is possible because the copper is free from surface defects. Fluxes wet readily because of this clean surface. These factors combine to make Revere Rolled Copper the ideal medium for these printed circuit boards.

And they are the very reasons why you should insist that Revere Rolled Copper be specified by you when ordering blanks from your laminator.

It is available in unlimited quantities in standard coils of 350 lbs. in widths up to 38" and in .0014, .0028, and .0042

gauges, weighing approximately 1 oz., 2 oz. and 3 oz. per square foot; or heavier if required. Many users have found that because of its unique characteristics 1 oz. Revere Rolled Copper can be used instead of the 2 oz. required when other kinds of copper are used, thus effecting still greater savings in material cost. Revere Rolled Copper exceeds requirements of standard specifications and meets ASTM B5 specifications for purity with 99.9% minimum.

Consult your laminator regarding the use of Revere Rolled Copper for your printed circuits, or contact the Revere Representative nearest you through the yellow pages of your local telephone directory.

Revere does no laminating of printed circuit boards, making only rolled copper. Revere Rolled Copper can also be furnished rolled down to .0006 for coil winding applications.

\*Reg. U. S. Pat. Office



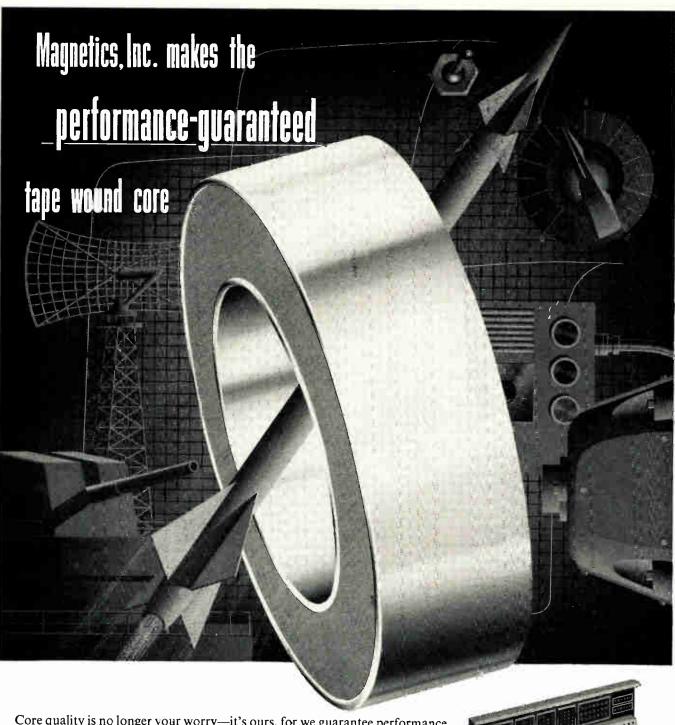
UNIVAC FILE COMPUTER

# REVERE COPPER AND BRASS INCORPORATED

Founded by Paul Revere in 1801 230 Park Avenue, New York 17, N. Y.

Mills: Rome, N. Y, Baltimore, Md.; Chicago, Clinton and Joliet, Ill.; Detroit, Mich.; Los Angeles and Riverside, Calif.; New Bedford, Mass.; Brooklyn, N. Y.; Newport, Ark.; Ft. Calhoun, Neb. Sales Offices in Principal Cities, Distributors Everywhere.





Core quality is no longer your worry—it's ours, for we guarantee performance of our tape wound and bobbin cores to mutually agreed upon specifications. What's more, you can specify a host of extra Magnetics, Inc. exclusive features. These include the Aluminum Core Box\*, to withstand the rigors of temperatures to at least 450°F., vacuum impregnation, heavy winding stresses and vibration—and the color-coded bobbin core, for error-free handling in storage and assembly.

Why not write today for your copy of Catalog TWC 100-A? And if you have an application problem, our sales engineers are ready to provide you with expert assistance. Magnetics, Inc., Dept. TT-30, Butler, Pennsylvania.

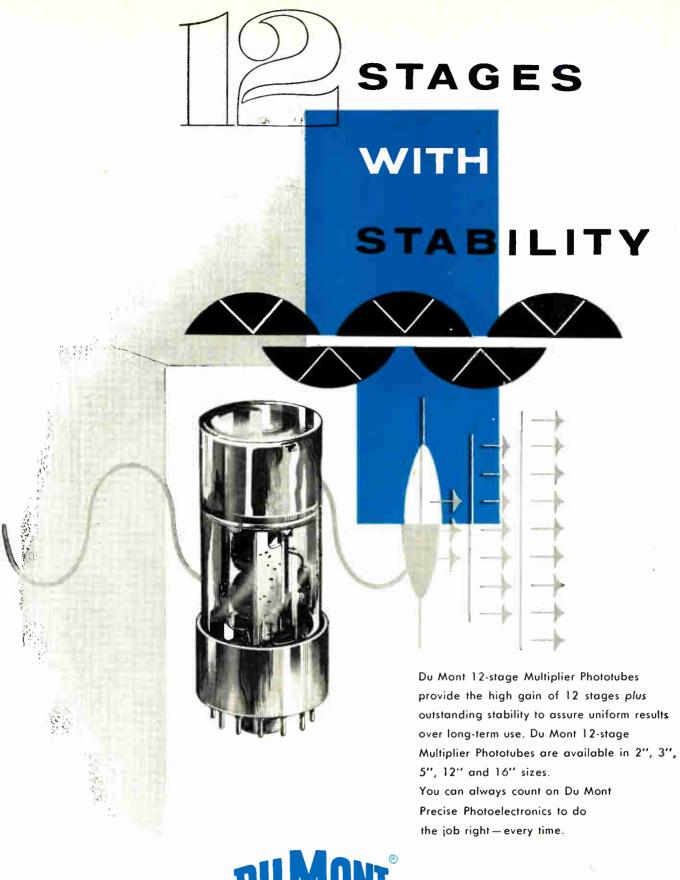
Magnetics' bobbin cores, too, are performance-guaranteed!



**CABLE: Magnetics** 

24

\*Patent Pending



# DUMONT® Precise photoelectronics

Industrial Tube Sales, ALLEN B. DU MONT LABORATORIES, INC. 2 Main Ave., Passaic, N. J.

# BOMAC.... FIRST IN MICROWAVE

What do you need — a single tube — or 50,000? A modification? A completely new component? Bomac is capable of meeting your needs.

Buyers know Bomac as one of the nation's largest designers and manufacturers in the highly specialized field of microwave tubes and components.

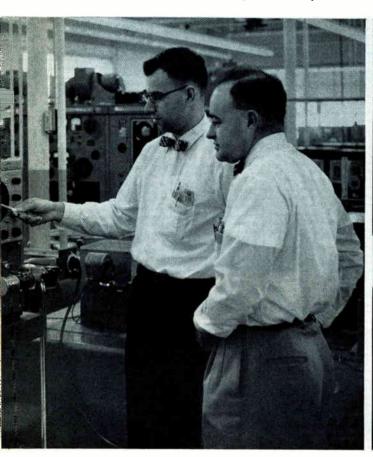
They also know these 3 important facts about Bomac reliability:



Every tube, every component is 100% tested for peak performance and maximum uniformity before shipment.



Bomac's engineering and development service is complete in every detail.





# Excellent reasons why you can count on Bomac to meet your

#### REPRESENTATIVES

#### MR. BERTRAM D. AARON

12032 Wilshire Boulevard, Los Angeles, California, Granite 8-2410, or Bradshaw 2-6785.

#### MR. PAUL BOCKENSTEDT

North Dayton Post Office Box 175 Dayton 4, Ohio, Fulton 1322.

#### DICKISON SALES COMPANY

Main Office — 300 Broadway, Camden, New Jersey, Woodlawn 6-4081,

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#### MR. DAVID SHAMP

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# TUBES AND COMPONENTS

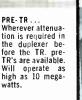


Bomac offers a complete line over 750 different tubes and components.



TR... A type for every known ap-plication — all bands — fixed-tuned or tunable — special types: shorted, dual and triple







REFERENCE

SHUTTERS...
Bomac was first to develop shutter tubes and integral TR combinations for continuous crystal protection.

HYDROGEN THYRATRONS Bomac thyrtrons provide the follow-ing advantages: precise triggering — high repetition rates — high power levels zero bias opera-tion — electrical stability.



CAVITIES ... Detent with multiple frequencies and dual mode with fixed frequency. Temperature compensated to ±0.3 MC from 0°C to 100°C.



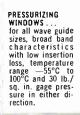


SILICON DIDDES SILICON DIODES
Themost sensitive,
uniform and stable
diodes (1N23D).
Also available in
matched pairs for
X-band and Sband. Also supplied as mixer diodes with either
normal or reverse
polarity.

KLYSTRONS. Bomac offers a line of reflex klystrons. They offer maxi-mum performance at high altitudes without pressurization.



DUPLEXERS Bomac will design, develop, and pro-duce complete du-plexers to cusplexers to cus-tomer specifica-





tremely reliable and will withstand high shock and vi-





HIGH FREQUENCY TRIDDE DSCIL-LATOR . . This triode, for oscilla-tor use at high frequencies, is ex-tremely reliable

SURGE PROTECTORS... Bomac surge pro-tectors are hold-off diode tubes. In a wide range of breakdown volt-ages: from 100 to 33000. Clnsult our engineering engineering de-partment for your applications.

most exacting requirements

For more information .



Beverly, Mass.



write for Bomac's free, 6-page file-size folder containing de tails and specifications on more than 500 different microwave tubes and components.

See our advertisement on inside back cover

# **SENERAL TRANSISTOR**

# MAXIMUM RATINGS AT 25°C

# TYPICAL CHARACTERISTICS AT 25°C

General Transistor	Polarity	Trans Dissi (MW)	Collector Base Voll (Emitter (Volts)	Curro 0 00	Peak	Stor Tem (°C)	Gain Emi	DC Current	Gain (B)	Pow	Noise Figure	Collector		(mc)	350	Emitter Current	App
ral	ity	Transistor Dissipation (MW)	Collector to Base Voltage (Emitter Open) (Volts)	DC Collector Current (ma)	Peak Collector Current (ma)	Storage Temperature (°C)	AC Current Gain(Common Emitter) (B)	Conditions	Gain	Power Gain (DB)	e (DB)	Conditions	(ma)	Alpaha Cutoff Frequency (mc)	Collector Voltage (Volts)	tter ent (ma)	Applications
-14	PNP	125	25	100		85	28			36	16	VCB=10V	6		4.5	1	Audio, Gen. purpose
·20 ·34	PNP	125	25	100		85	42			40	16	VCB=10V	6		4.5	1	Audio, Gen. purpose
74	PNP	125	25 25	100		85 85	15		-	32	16	VCB=10V	6		4.5	1	Audio, Gen. purpose
-75	PNP	125	25	100	-	85	75 150		-	42	<12 <12	VCB=10V VCB=10V	6		4.5	1	Audio, Gen. purpose
-81	PNP	125	25	100	1	85	75		<del>                                     </del>	42	16	VCB=10V	6		4.5	1	Audio, Gen. purpose Audio, Gen. purpose
81 HS*	PNP	150	25	200		85	120			44	16	VCB=10V	6		4.5	î	Audio, Gen. purpose
82 109	PNP	125	25	100		85	150	l .		46	16	VCB=10V	6		4.5	1	Audio, Gen. purpose
222	PNP	125 125	25 12	100	-	85 85	120 20			44	16	VCB=10V	6		4.5		Audio, matched pair
14 H	PNP	90	12	50	1	75	28		-	30 36	30 12	VCB=10V VCB=10V	6		4.5		Audio, Gen. purpose Hearing Aid
20 H	PNP	90	12	50		75	42			40	12	VCB=10V	6		4.5	-	Hearing Aid
81 H 210 H	PNP	90	12	50		75	80			42	12	VCB=10V	6		4.5	-	Hearing Aid
769 R	PNP	90	12	50 100	-	75 75	15-250 25			>34	>29	VCB=10V	<25		4.5	$\rightarrow$	Hearing Aid
760 R	PNP	90	10	100		75	40			24φ 28φ			6	2.5	4.5		R.F. & I.F.
761 R	PNP	90	10	100		75	70			32φ			6	11	4.5		R.F. & I.F. R.F. & I.F.
762 R	PNP	90	6	100		75	120			34φ			6	17	4.5	-	R.F. & I.F.
83+ 87	PNP	125 125	25 25	200	·500 500	85	35-49			40	16		10	<.7	4.5	1	Low Speed Computer
88	PNP	125	25	200	500	85 85	38 80		-	36 42	16 16		10	.5	4.5	1	Low Speed Computer
122	PNP	125	25	200	500	85	80			42	16		10	1.5	4.5	1	Low Speed Computer Low Speed Computer
758+	PNP	100	15	‡		-55 to +85		IC=10ma VCE=5V	25-75		6	VCB=15V	<60				Low Speed Computer
123+	PNP	100	>20 >20	200	500 500	-55 to +85 -55 to +85	15			20φ	16	VCB=15V	< 5	<.5	4.5	1	Low Speed Computer
153+	PNP	100	>30	200	500	-55 to +85	30-150 > 20				-	VCB=20V VCB=20V	< 6 < 5	> 5	4.5	1	High Speed Computer
269+	PNP	100	25	200	500	-55 to +85						VCB=20V	< 4	> 4	4.5	1	High Speed Computer High Speed Computer
759+	PNP	100	>20	200	500	-55 to +85	20			24φ	16	VCB=15V	< 5	.5 to 3	4.5		High Speed Computer
760 761	PNP ·	100 100	15 15	50		-55 to +85	40			28φ	16		1	5	4.5		High Speed Computer
762	PNP	100	6	50 50		-55 to +85 -55 to +85	75 100			$32\phi$ $34\phi$	16 16		1	10	4.5		High Speed Computer
763	PNP	100"	6	50		-55 to +85	120		-	35φ	16		1	20 30	4.5 4.5		High Speed Computer High Speed Computer
764+	PNP	100	>20	200	500	-55 to +85	200			30,5	16	VCB=15V	< 5	> 25	4.5		High Speed Computer
3A 4	PNP	150 150	45	50		-55 to +85	32-65			>12	<20	VCB=45V	10	>.4	5	1	Military-Type
15	PNP	100	45 20	50 200	500	-55 to +85 -55 to +85	16-32	IC=100ma	20	34-43	<33	VCB=45V VCB=5V	15	>.4 5	5	_	Military-Type
16	PNP	100	20	200	500	-55 to +85		VCE=.2V IC=200ma	30			VCB=5V	1	12	5		Switching computer Switching computer
17	PNP	100	20	200	500	-55 to +85		VCE=.2V IC=400ma VCE=.2V	30			VCB=5V	1	20	5	1	Switching computer
56	NPN	100	>30	200	500	-55 to +85		IC=100ma VCE=.25V	30			VCB=5V	< 5	3	5	1	Switching computer
57	NPN NPN	100	>30	200	500	-55 to +85		IC=200ma VCE=.25V	30			VCB=5V	< 5	6	5	1	Switching computer
18/(GT-66)	PNP	50	12	200	500	55 to +85	100	IC=300ma VCE=.25V	30	42	20	VCB=5V	< 5	9	5	_	Switching computer
4HV	PNP	150	50	‡		85	10			32	16		10		4.5		Phototransistor High Voltage
4N+	PNP	125	100	200	500	85	18					VCB=100V	<450		4.5	$\overline{}$	Neon light
4S+ 5/(2n35)+	PNP NPN	125	40 25	200 100	200	-55 to +85 -40 to +75	15 40			32	24	VCB=15V	15		4.5		Bi-directional
29+	NPN	100		200	500	-55 to +85	> 10			40	16 30	VCB=12V VCB=10V	<12 <10		5		Audio, Gen. purpose Experimental Amateur
67+	NPN	100	25	200	500	85	> 25				30	VCB=15V	<10	> 5	5		High speed switching computer
92+	NPN NPN	100	20	100	200	-55 to +85		IC=10ma VCE=5V	25-75			VCB=15V	<60				High medium speed switching computer
03+	NPN	100		200	500	-55 to +85		IC=5ma VCE=5V IB=1ma	37-160 35-70			VCB=5V VCB=20V	<25	4.8	5		Switching computer
04+	NPN	100		200	500	-40 to +75		VCE=.2V IB=1ma	>30			VCB=20V		> 4	5		High & med. speed switching computer High speed switching
05+	NPN	100	20	200	500	−55 to +85		VCE=.2V IB=1ma	20-40			VCB=20V	<25		-		computer High & med. speed
47†	NPN	100	15	200	500	─55 to +85		VCE=.2V IB=1ma VCE=.2V	>40	-		VCB=10V	<25				switching computer High & med. speed
48+	NPN	100		200	500	-55 to +85		IB=1ma VCE=3.5V	>30			VCB=20V	<20	> 4	5	3	High & med. speed switching computer
49+	NPN	100		200	500	−55 to +85		IB=1ma VCE=3.5V	>30			VCB=30V	<25	>.7	5	3	High & med. speed switching computer
plied with	Heat Sink	: !lim	ited only	hu Cal	lastas Di	ssipation $\phi$ Fre		455KC +0		6		0.11					

plied with Heat Sink \$\frac{1}{2}\$Limited only by Collector Dissipation \$\phi\$Frequency = 455KC \$\frac{1}{2}\$Preliminary Specifications — Subject to Revision at any Time by General Transistor Corp. More Complete Information on any of the Above Types, Write for Particular Specification Sheet

# GERMANIUM ALLOYED JUNCTION TRANSISTORS

for Computer Audio Hearing Aids R.F. and I.F. applications General Transistor, the fastest growing name in transistors, offers you a complete line of high quality semiconductors. For superior electrical performance, reliability and service buy and specify General Transistor.



TRANSISTOR CORPORATION

91-27 138th PLACE, JAMAICA 35, NEW YORK



C-SLOT THREADING... the fastest, easiest-threading reel ever developed!

This revolutionary new improvement in tape reel design is now standard for all 7" reels of Audiotape — an extra-value feature at no extra cost!

With the C-slot reel, threading becomes virtually automatic. No more fumbling with tiny loops or sticking your finger in little holes. What's more, the new reel is actually heavier and stronger than ever before. All five types of Audiotape now come on this great new reel

# Only C-SLOT threading gives you these advantages:

No kinks or loops in tape
No "pigtails" to stick up and break off or cause
reel to wobble when turned over
No need to turn reel by hand to anchor tape

# PLUS these improved construction features:

Smooth, unbroken rim — no slit to warp or bind Perfectly smooth inner surface — no sharp edges to catch or roughen tape

Strong, non-warping construction — the ultimate in reel ruggedness

Ask your dealer for a demonstration

of the Audiotape C-slot reel.

# HERE'S ALL YOU HAVE TO DO: reel rotation 1. Insert tape through flange opening at top of C-slot. 2. Drop tape into slot, leaving about 1 inch projecting beyond the hub with tape slack on both sides of recording head.

THEN PRESS THE "START" BUTTON!

Tape will grip and hold firmly . . . no need to turn reel by hand to anchor free end.



In Hollywood: 840 N. Fairfax Ave. In Chicago: 5428 Milwaukee Ave. Export Dept.: 13 East 40th St., N.Y. 16, N.Y. Cables "ARLAB"



# SPECIFY...CLEVELITE \*

It has high insulation advantages, uniformity and inherent ability to hold close tolerances which give you dependability.

CLEVELITE dependability is the answer for product performance at its best.

Also, ensure over-all economy by adding Clevelite reliability to your product.

Write for folder showing the various grades in which Clevelite is produced. Your inquiry will receive prompt attention.



IRV. M. COCHRANE CO., 408 S. ALVARADO ST., LOS ANGELES

# Tele-Tips

(Continued from page 26)

POKER-FACED, TOO! The Datatron computer made by Burroughs Corp. has been programmed to play blackjack, including electronically "shuffling" a non-existent pack of cards, cutting on selection of a number from 1 to 52 by a player, then dealing the hands—typing the hands on electric typewriters. After the second round, Datatron conceals its hole card unless it has made blackjack—a total of 21 points—with two cards. No orders are reported yet from Las Vegas.

MULTIPLE JOBHOLDING is increasing, says the Census Bureau. Better than five per cent of the employed population held more than one job during the week of the census.

GOBBLEDYGOOK'S BROTHER, corporate Mumbo-Jumbo, has reached such a stage that one sympathetic corporation has included a glossary of business and engineering terms in its annual report. Fairchild Camera and Instrument Corp. has presented stockholders with a glossary of business and engineering terms used in the 1956 annual report.

INDIAN FAKIRS are being investigated this summer by two American medical researchers. Using a compact 78-lb. transistorized set the researchers will investigate physiological changes, if any, when the Indian fakirs withdraw themselves from known manifestations of consciousness.

TV made news, thirty years ago, with the first intercity live telecast—starring Herbert Hoover.

WHAT NEXT? Automatic gavel, brainchild of Minneapolis-Honeywell's Dave Choate, sounds-off at the push of a button. Built-in "mood selector" allows speaker to select Tired, Normal, Mad, Drop-Dead, or Apoplectic gavel raps—this last includes an angry buzzer.

WEST COAST:



# It's Florida for the kind of missile work only RCA can offer electronic technicians



RCA careers are beginning for electronic technicians every day at the Missile Test Project at Patrick Air Force Base on Florida's central east coast. Each offers a unique opportunity to work on testing of all types of missiles now under development or planned. What's more, you can contribute to the Vanguard Satellite launching and tracking.

There's a broad range of RCA opportunity for technicians on all levels. A basic knowledge of electronics qualifies you for many of these openings. Complete facilities include latest electronic and optical data acquisition and transmission systems. Liberal RCA benefit program . . . relocation assistance, too. You'll live well in Florida.

Make your future in one of these field or shop assignments:

# RADAR—RADIO—TELEMETRY TIMING—INSTRUCTING ELECTRONIC TEST EQUIPMENT

Mail the coupon for booklet which describes our Florida missile program and its advantages.



# RCA SERVICE COMPANY, INC.

Mr. H. N. Ashby, Employment M. RCA Service Co., Inc., Missile Tes P. O. Box 1226, Melbourne, Fla.	t Project	
Please send me brochure with the employment advantages in Flori		CA
Name	Age_	Married Yes No
Address		U.S. Citizen Yes No
Electronics Experience (Include	Mil. Service & Tech.	. Schools <sup>1</sup>
Earliest Date Available		



# SUBMINIATURE FILTERS

- for I.F. amplifiers, printed circuit use
- temperature compensated to .15% from —55°C to +85°C
- for operations above
- dimensions:
   13/16" x 2-1/2" x 2"
   high



# ENCAPSULATED TOROIOS

- hermetically sealed
- high Q
- center-mounting permits stacking
- complete range of sizes and types
- dimensions: 21/32" x 3/8"



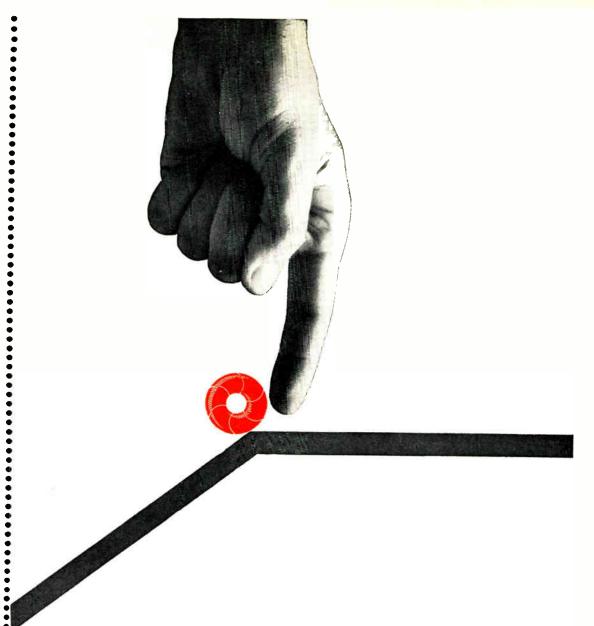
#### TOM THUMB TELEMETERING FILTERS

- miniaturized for guided missiles
- high temperature stability
- designed to withstand shock and vibration
- hermetically sealed—wt. 1.5 oz.
- dimensions: 45/64" x 45/64" x 2" high



# SUBMINIATURE ADJUSTORDIDS

- precise continuous adjustment of inductance over a 10% range
- no external control current needed
- hermetically sealed
- low cost—wt..83 oz.
- dimensions: 45/64"x 45/64" x 3/4" high



# you're all set to roll...

••• with a toroid, filter or related network by Burnell.

For Burnell specializes in these components; in manufacturing them and in delivering them on schedule — at competitive prices.

Today Burnell makes toroids, and the filters of which they are the basic components, small enough to meet a multitude of new purposes . . . in aircraft and guided missiles . . . in receivers. carrier and telemetering systems.

Very likely we already have the answer to your network needs among our extensive files. If not, we can swiftly find that answer for you. Try us and see.

# Burnell & Co., Inc.

first in toroids, filters and related networks

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PACIFIC DIVISION. . . 720 MISSION STREET, SOUTH PASADENA, CALIFORNIA. . . TELETYPE: PASADENA 7578

Burnell SUBMINIATURE FILTERS

AS SMALL AS 3/4" x 3/4" x 13/8" AS LIGHT AS 11/4 OUNCES



Designed and tested to specification #MIL-T 26985

Supplied in two principal case sizes:

- 1. For RDB channels 1 through 6, case size is 3/4 x 11/2 x 21/4 inches high; weight: 4 ounces.
- 2. For channels 7 and up, case size is 34 inches square and 1% inches high; weight: 11/4 ounces. These cases are generally equipped with a 4-pin plug to match the small Winchester socket.

ATTENUATION CHARACTERISTICS

Impedance: 100 K ohms in and out.

Insertion loss: less than 6 db.

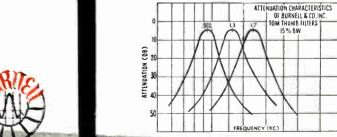
At  $\pm$  7.5% band width is less than 3 db.

At  $\pm$  25% band width is greater than 15 db.

At 1.75 f attenuation is 40 db or more.

At .57 f attenuation is 40 db or more.

CHAN. #	FREQ.	1MP. 100K P/N	B. W.	SIZE	WT.
1	400 cps.	5-60001	±7%%	34 x 11/2 x 21/4 H	4 oz.
2	560 cps.	5-60002	±7½%	34 x 11/2 x 21/4 H	4 oz.
3	730 cps.	5-60003	±7%%	34 x 11/2 x 21/4 H	4 oz.
4	960 cps.	5-60004	±7%%	34 x 1½ x 2¼ H	4 02.
5	1300 cps.	5-60005	±7½%	% x 1½ x 2¼ H	4 oz.
6	1700 cps.	5-60006	±71/2%	% x 1½ x 2¼ H	4 oz.
7	2300 cps.	S-60007	±71/2%	34 x 34 x 136 H	1¼ oz.
8	3 KC	S-60008	±71/2%	34 x 34 x 136 H	1¼ oz.
9	3.9 KC	5-60009	±71/2%	34 x 34 x 136 H	1 ¼ oz.
10	5.4 KC	S-60010	±71/2%	34 x 34 x 136 H	1¼ oz.
11	7.35 KC	S-60011	±71/2%	34 x 34 x 136 H	1¼ oz.
12	10.5 KC	5-60012	±71/3%	34 x 34 x 136 H	1¼ oz.
13	14.5 KC	S-60013	±7½%	34 x 34 x 136 H	1¼ oz.
14	22 KC	5-60014	±7½%	34 x 34 x 136 H	1¼ oz.
15	30 KC	5-60015	±7½%	% x % x 1% H	1¼ oz.
16	40 KC	5-60016	±71/2%	34 x . 34 x 136 H	1¼ oz.
17	52.5 KC	5-60017	±71/2%	% x % x 1% Н	1¼ oz.
18	70 KC	5-60018	±71/2%	% x % x 1% H	1¼ oz.
A	22 KC	5-60019	±15%	34 x 34 x 136 H	1¼ oz.
В	30 KC	5-60020	±15%	% x % x 1% H	1¼ oz.
С	40 KC	5-60021	±15%	34 x 34 x 136 H	1¼ oz.
D	52.5 KC	5-60022	±15%	34 x 34 x 136 H	114 oz.
ε	70 KC	5-60023	±15%	%x %x1% H	1¼ oz.





Dept. T77 45 WARBURTON AVENUE . YONKERS 2, N. Y. YONKERS 5-6800 PACIFIC DIVISION • 720 MISSION STREET • SOUTH PASADENA, CALIFORNIA • RYAN 1-2841

# Letters

## to the Editor

# ARINC & Single-Sideband

Editor, ELECTRONIC INDUSTRIES:

On page 82 of the April "Electronic Industries and Tele-Tech" Roland Davies has presented an accurate report of the ARINC SSB-DSB Symposium conclusions as expressed by the ARINC staff.

On page 3 of the same issue, there is a further mention of the symposium; however, the statements purported to have been made by ARINC and the conclusions drawn at the symposium by the ARINC staff as reported in this article are incorrect.

We believe we understand how this error in reporting has occurred. In all discussions of SSB implementation, the importance of compatibility of SSB with AM during a transition period has been continually emphasized as a means of speeding and easing the implementation. "Compatibility," in this case, means simply that during the transition period a full carrier will be transmitted along with the single sideband modulation so that the transmission may be received either on a single sideband receiver or on a conventional AM receiver. Almost all single sideband airborne

equipment presently under development has this capability for "bimode" operation, that, is, the carrier can either be transmitted or suppressed and this provides the "compatibility" which is necessary during the transition period.

Leonard Kahn has applied the name "compatible SSB" (abbreviated CSSB) to his particular technique and circuitry for generating a full carrier SSB signal and it is therefore understandable that the several uses of the terms "compatible" and "compatibility" have been confused by some who have not followed the recent developments too closely. The desire for single sideband "compatibility" is almost universal on the part of systems planners for both civil and military implementation of SSB. However, this certainly should not imply an endorsement by those planners of a particular technique, such as the Kahn System, which is just one of many capable of providing this compatibil-

> Wm. T. Carnes, Jr., Chairman Airlines Electronic Engineering Committee, Aeronautical Radio,

## Transistor Chart

Editors, ELECTRONIC INDUSTRIES: This is written to inquire if you have reprints available of the Transistor Specifications List published on pages 53, 54, 57, and 58 of the December, 1956 issue. I have shown this list to quite a few engineers and jobbers in my territory. They all have expressed a desire to have a copy.

This is the only comprehensive list I have found. I hope you plan to keep it up-to-date by publishing a revised list from time to time. This is a real service to the industry for which you deserve a hearty vote of

Norbert F. Derr Manufacturers' Representative 937 South Ashburton Rd. Columbus 13, Ohio

Editors, ELECTRONIC INDUSTRIES:

We have just seen in your October 1956 issue of Electronic Industries an information entitled "Radar Camera Fixes Ship Crash Blame.'

We believe you would be interested to know that a device similar to the "Mirar" was developed in our department four years ago. We join to our letter a copy of a paper describing the said device, published in the "Annales des Télécommunications" in January 1953. The apparatus described is being currently used in France for the training of radar crews.

Y. L. Delbord Chief Engineer

Infrared & TV Dept. C.N.E.T. Palaiseau, France

# For long life under extreme conditions of shock, vibration, corrosion, humidity and temperature



Intended for use with jacketed cable

and not requiring ground return through

mating surfaces, this connector incorpo-

rates sealing gaskets at all mating joints.

porate standard Scinflex resilient inserts

W-Type Bendix\* Connectors also incor-

in established AN contact arrangements. Shell components are thick sectioned highgrade aluminum for maximum strength. All aluminum surfaces are grey anodized for protection against corrosion.

It will pay you to remember that for

to specify the W-Type Connector. Complete specifications and details on

request.

the really tough jobs, where ordinary

electrical connectors just won't do, be sure

\* TRADE-MARK



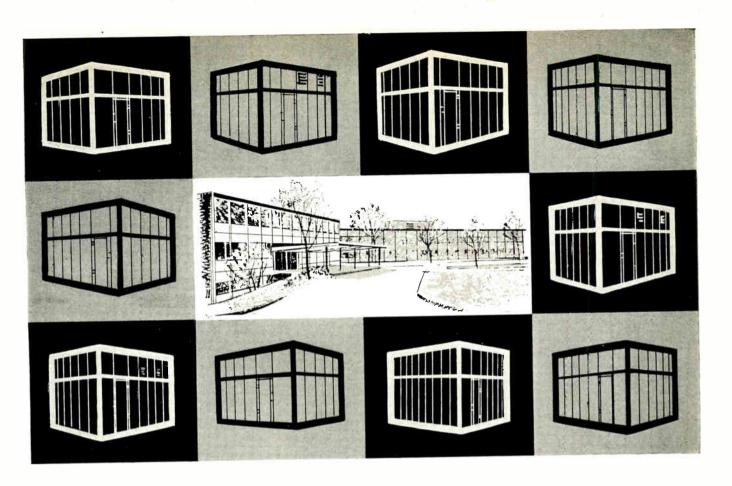
SCINTILLA DIVISION of SIDNEY, NEW YORK



Export Sales and Service: Bendix International Division, 205 East 42nd St., New York 17, N. Y.

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# RCA Cherry Hill center studies TV interference in 35 ACE shielded enclosures

FCC regulations governing receiver radiation specifically state that r-f interference in the frequency range of 450 kc to 25 mc cannot exceed 100 microvolts as measured on the power line connected to the TV receiver. RCA thoroughly tests the prototype of every TV set it manufactures, both color and black and white, against these FCC regulations. And it's all done with great accuracy in one of the thirty-five Ace enclosures at RCA's modern Television Engineering Laboratories at the Cherry Hill Center, Camden, N. J. Actually the largest number of shielded enclosures ever installed at one site. these represent an important part of one of the best equipped engineering laboratories in the world.

Here, thorough shielding is a must, for numerous engineering tests involving interference are often under way at the same time. Other receiver studies carried out in these rooms include tests for gain, selectivity, sensitivity, and general circuit design.

Each of the Ace RFI-Design\* rooms is constructed of prefabricated galvanized steel panels and frames with special r-f leak-proof doors of the same material. They provide over 100 db attenuation at all frequencies from 14 kc to 1000 mc. All are ventilated from a central air conditioning source.

An interesting collateral function of these enclosures is their use as \*Lindsay Structure

partitions to section off areas of the engineering department. Should the occasion arise, two adjacent rooms may be combined into a large one merely by removing adjoining walls and bolting the remaining structure together. Similarly, dimensions can be easily changed by adding or removing interchangeable panels.

The Cherry Hill installation is a stimulating illustration of the way standard Ace enclosures are solving today's shielding needs. They can be equally effective in your own plant. An Ace Sales Engineer would be glad to discuss it with you. Or, write for further information—a free catalog on standard Ace enclosures is yours for the asking.



# First and Finest In Shielded Enclosures

ACE ENGINEERING & MACHINE CO., INC. • 3644 N. Lawrence St., Phila. 40, Pa.

# INSULATED HIGH TEMPERATURE HOOK UP and LEAD WIRE

For MILITARY and COMMERCIAL END USE EQUIPMENT and ELECTRONIC COMPONENTS

## Conforming to MIL-W-16878B

Lenz High Temperature Hook-Up and Lead Wires contain thermo-plastic insulation that will retain its high dielectric characteristics over a temperature range from  $-55^\circ$  C to  $+105^\circ$  C.

Type	В				25	35			. +0	600	Volts	r.m.s.
											Volts	
											Valts	

This wire can be furnished in various jackets or shielding, and can be incorporated in multiple conductor cables. Available in solid colors or striping and built to Lenz unsurpassed standards.

## Conforming to MIL-W-76A

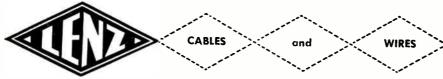
General purpose Hook-Up and Lead Wires for internal wiring of electric and electronic equipment, with thermoplastic insulation for use at temperatures to 80° C.

Type	LW	,							300	Volts	r.m.s.
Type	MW									Volts	
Type	HW		٠	٠				02	3000	Volts	r m s

Can be furnished with nylon jackets, glass braid, lacquered, and shielding. Can be incorporated into multiple jacketed cables to suit your specifications. Available in solid colors or striping to meet your code requirements.

# CONSULT LENZ FOR ALL YOUR ELECTRONIC WIRE AND CABLE NEEDS

In Lenz, you will find a dependable, experienced organization that will cooperate with you in the production of wires and cables to your requirements. Its high quality standards, intimate knowledge of the industry's needs and extensive facilities for wire insulating and cabling make Lenz an ideal source for all your wires and cables.



# LENZ ELECTRIC MANUFACTURING CO.

1751 North Western Avenue

Chicago 47, Illinois

# Industry

# News

Orville M. Dunning has been elected Vice-President of Airborne Instruments Laboratory, Mineola, New York. Prior to joining Airborne in 1955, Mr. Dunning was the Vice-President in Charge of Engineering of Hazeltine Electronics Corp.

Stanley J. Koch is now General Manager of the A. B. Du Mont Laboratories, Tube Division. He had been Director of the Tube Research Div., prior to his new appointment.

R. C. Lanphier, Jr., has returned to the Sangamo Electric Co. as Vice-President and Director of Sales. For the past 3 yrs., Mr. Lanphier has been on leave of absence while serving as Deputy Assistant Secretary of Defense for Supply and Logistics.





R. C. Lanphier, Jr.

H. C. Smith

Haywood C. Smith has been appointed Technical Manager in the Research and Development Dept., office of the Vice-President in charge of Engineering, of the American Machine & Foundry Co. Mr. Smith was formerly Manager of AMF's Raleigh Laboratory.

Arthur R. Tice will now serve as Manager, Field Engineering for the Western Region, for G-V Controls, Inc.

Michael Balog to the post of General Manufacturing Manager of the Semiconductor Division of Sylvania Electric Products, Inc.

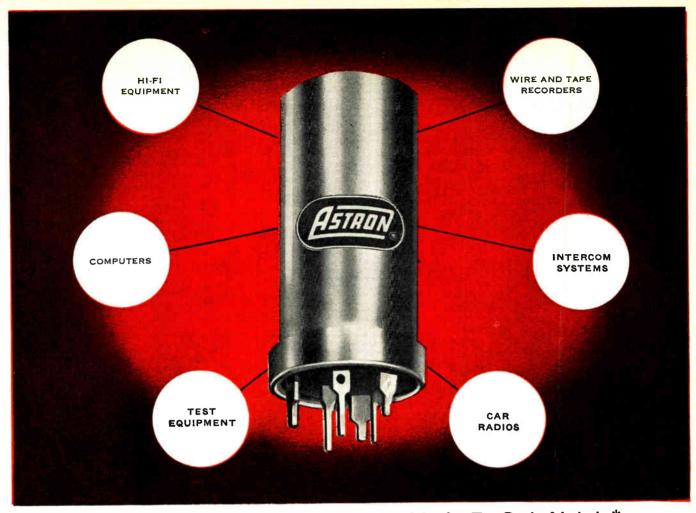
M. Ross Yeiter is now serving as Sales Manager for the Special Tube Operations of Sylvania Electric Products, Inc.

Clifford Tuttle joins Vitramon, Inc. at its plant in Long Hill, Conn. as Sales Manager to promote sales of "Vitramon" capacitors in the United States and Canada.

Edward W. Allen, Jr., is now Manager of Public Relations at A. B. Du Mont Laboratories.

Edward D. Gray has been elected Vice-President of Potter Instrument Co., Inc.

(Continued on page 44)



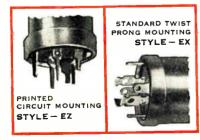
ASTRON ''SAFETY MARGIN''\*

# **ELECTROLYTIC CAPACITORS**

# for transistorized and printed circuits

IMPORTANT DESIGN ADVANTAGES OF ASTRON EZ AND EX ELECTROLYTICS

- . MINIATURIZED SIZE-LIGHT IN WEIGHT
- DESIGNED FOR MINIMUM LOSSES LOW DRAIN
- . LONG "SHELF" AND OPERATING LIFE
- . HERMETICALLY SEALED
- . RUGGEDLY CONSTRUCTED



Today's low-voltage transistorized and printed circuits demand capacitors with absolute minimum leakage and impedance. To meet these exacting needs, Astron Engineers developed new miniaturized EZ and EX Electrolytics for ambient operation up to 85° C.

99.99% pure aluminum foil is specially anodized by an exclusive process . . . power drain is cut to a minimum. They are constructed to withstand extreme temperature changes and give reliable operation after periods of "long idleness."

Each electrolyte formula is scientifically compounded of special chemicals, selected for their high purity. Assembly steps are kept meticulously clean . . . the result: Safety Margin Construction, famous for its ability to withstand ripple currents, vibration, shock and wide temperature fluctuations. These hermetically sealed units are available in a broad selection of capacitance and voltage ratings.

Send today for further technical information . . . please describe your application; it helps us offer proper assistance to you . . . when special

you . . . when special conditions require, we will design a prototype to meet your specifications.



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# **LECTRONIC Test Instruments**



## 9 TUBE TESTERS FILL ALL REQUIREMENTS



MODEL 123A

### CARDMATIC TUBE TESTER **Automatic Tube Testing Machine**

Model 123A: An automatic tube test to laboratory accuracy that instantly selects any tube to meet the exact requirements of your specific circuit application. Ideal for production line use by factory personnel, or for TV service companies.

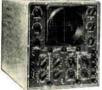


MODEL 539B

#### PORTABLE TUBE TESTER **Most Accurate**

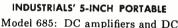
Model 539B: Features simplicity of operation in providing a complete and accurate evaluation of electron tubes. Has Mutual Conductance circuits, 6 micromho ranges, 4 AC Signal voltages, metered line voltage, metered grid voltage and other important features.

### 7 OSCILLOSCOPES MEET SPECIALIZED REQUIREMENTS LABORATORY CATHODE RAY OSCILLOSCOPE Wide Range . . . Versatile



MODEL 770

Model 770: Provides unusually wide range of DC to 5 MC. 10 M.V. RMS per inch sensitivity. Built-in calibrating voltages. New flat-faced tube. Illuminated calibrated screen. Mumetal shield. Shock mounted. This highly stable 'Scope is laboratory quality throughout.





to 750KC response. Sensitivity is 20 MV RMS per inch. Shock mounted amplifiers and good circuit design provide excellent stability for use in all phases of electronic work. The illuminated calibrated screen and

ideal design features will please many an industrial who would expect to pay much more for this quality and completeness.



MODEL 385

preferred by field engineers.

SMALLER SIZE LABORATORY OSCILLOSCOPE 3-Inch Partable

Model 385: DC to 4 MC, within 3 db, 0.75 RMS volts per inch sensitivity. Sweep circuit oscillator; 3 cycles to 50 KC. Input impedance: vertical and horizontal amplifiers; 2.2 megohms-25 mmf. Features replaceable circuit sections. High quality throughout. Also available in portable, moisture-proof, weather-proof aluminum carrying case as

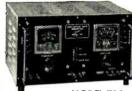
### INDUSTRIAL LABORATORY OSCILLOSCOPE 3-Inch Rack Mount



MODEL 387R

Model 387R: Popular rack-mount style in an accurate 3-inch oscilloscope. Features identical vertical and horizontal amplifiers. DC to 500 KC response. 10 MV RMS sensitivity. Designed to permit versatile use in all phases of electronic work.

## 11 GENERATORS WITH SPECIALIZED FUNCTIONS



MODEL 710

### SINE-SQUARE WAVE GENERATOR For Laboratory & Industrial Use

Model 710: Provides an accurately calibrated source of sine wave and square wave functions over a wide frequency range. Sine wave total harmonic distortion below 1%. Hum level better than 90 db down. Square wave rise time less than .1 Micro-

second. 20 cycles to 1 MC in five ranges on both sine and square waves

MODEL 295X

#### MICROVOLT SIGNAL GENERATOR 125 KC ta 175 MC an Fundamentals

Model 295X: Ideal for mobile radio and other communication equipment design and maintenance. Output 0.1 microvolt to 100,000 microvolts. 125 KC to 175 MC continuous on fundamentals. 400 cycle modulation-ap-

proximately 30%. Attenuation down to 0.1 microvolt – no external attenuator pad required. Vernier Control permits hairline settings. Silverplated copper cage shielding. Test leads are furnished.

#### 5 VTVM and VOM INSTRUMENTS



### TRUE VACUUM TUBE Laboratary Size and Accuracy

Model 209A: Contains large 9" meter with zero-center scale. Highly accurate for servicing industrial electronic equipment. DC Volts: 0-1200 in 6 ranges. AC Peak-to-Peak Voltage: 0-1200 V. in 6 ranges. Capacitance 0.1 to 10,000 MMF in 2 ranges,

0-1000 MF in 5 ranges. 50 MH to 100 henries. 0.1 ohm to 10,000 megohms in 7 ranges.



MODEL 455

### NEW VOLT-OHM-MILLIAMMETER You Can't Burn It Out!

Model 455: New design portable VOM. Includes all practical ranges. Features patented protection system which protects both the meter and associated circuits from damage due to accidental overload. Quality designed for utility and attractiveness. Neoprene carrying case available.

# HIGHLY ACCURATE DC and AC PORTABLE INSTRUMENTS



Ammeters, Milliammeters, Microammeters, Voltmeters, Millivoltmeters, Volt-Ammeters. Thermometers are contained in a phenolic case lined with heavy steel shell which shields from the effects of stray magnetic fields. Scale divisions are spaced equal distances apart. Accuracy within ½ of 1%. On special order, Model 14 can be supplied with a calibration chart to provide accu-

racy to 0.2%. Also available is a complete line of pocket portables.

### **METERS**

The many special movements developed by HICKOK are: electrodynamometers, self-contained frequency meters, galvanometers, true logarithmic deflections, special curves for special purposes and ruggedized designs for highest shock tests. Full technical information on the complete line of HICKOK instruments and test equipment is available on request. Kindly list details of your requirements and ask for Catalogs No. 32 and 33.

# THE HICKOK ELECTRICAL INSTRUMENT COMPANY

10514 DUPONT AVENUE .

CLEVELAND 8, OHIO

HIGHEST QUALITY ELECTRICAL AND ELECTRONIC TEST INSTRUMENTS



Write for FREE samples and catalog on your firm's letterhead. Take Your Own Word For It by making your own test of El-Menco Capacitors. Write for Free Samples and Catalog.

Improved parallel leads for greater rigidity and faster assembly. These parallel leads simplify use on miniature printed circuit boards in television, guided missiles, hearing aids, electronic brains, air conditioning and other government and civilian applications.

# El-Menco Capacitors

# THE ELECTRO MOTIVE MFG. CO., INC.

**Manufacturers of El-Menco Capacitors** 

WILLIMANTIC

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molded mica

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• tubular paper

• ceramic • silvered mica films.

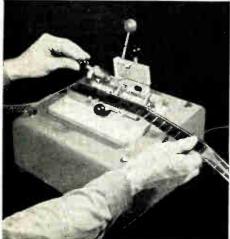
Arco Electronics, Inc., 64 White St., New York 13, N. Y. Exclusive Supplier To Jabbers and Distributors in the U.S. and Canada

# THE NATIONAL SCENE



"YOU FRAMED ME, NICK. AND I TOLD YOU I'D GET SQUARE. NOW..."
And then the film broke! Film breakage—cause of movie audience irritation in the "old days"—is a minor problem today. Tomorrow

it will be a rarity. Reasons: Newly developed, polyester base motion picture film of unusual strength and durability (duPont "Cronar," for example) and better film splicers like that shown here.



NATIONAL HELPS NEW SPLICER BOND FILM INSTANTLY—without disturbing original molecular orientation. Non-acetate film cannot be spliced satisfactorily by conventional methods. So the new device, developed by Shepard Laboratories, Inc., Summit. N. J. uses intense high-frequency heat to fuse the film instantly—without "Eurning" or affecting grain, high strength or durability. Side result: a superior splicer for all types of film.



IMPROVES PERFORMANCE—KEEPS COSTS DOWN. PHENOLITE®, used in electrode supporting blocks, offers complete resistance to carbonizing. Copper-clad Phenolitte for printed circuits cuts costs and improves circuitry. Shepard tells us: "Phenolitte passed our tests... Reasonable price holds our costs down."

## NATIONAL CAN HELP YOU

reduce unit product cost or improve product performance at no added cost. Here's why: You can select the "one best material" from over 100 grades of Phenolites, Vulcanized Fibre and National Nylon—without compromise in properties or cost. You can simplify production and purchasing with the timed delivery of 100°, usable parts—from a single, reliable source. You gain competitively with National's new materials and grades—the direct results of programmed materials research. You benefit by calling National first. Check Sweet's PD File 2b, Na, the Telephone Directory Yellow Pages, or write Wilmington 99. Delaware, Dept. F.



WILMINGTON 99, DELAWARE

NATIONAL FIBRE CD. OF CANADA, LTD., Toronto 3, Ont.

# DEPENDABILITY...you can design around



# RCA ELECTRONIC COMPONENTS



BATTERIES (for transistorized equipment)

RCA Batteries—a comprehensive quality line specifically designed for use in transistorized equipment. Single-voltage types (1.4, 4. 8 and 9 volts). Multiple-voltage types (3, 6, 9 volts and 9, 13.5 volts). Plus a complete line of quality produced RCA Batteries for industrial, consumer and general use. Design around RCA dependability!

SPEAKERS



RCA Speakers for high-fidelity, radio, TV, theatre and public address; military blast-proof types. Also space saving types available in quantity production for miniaturized equipment and transistorized portable radios. Line includes RCA 239S1, one of the smallest speakers ever produced—only  $2\frac{1}{2}$ " dia.,  $\frac{3}{4}$ " depth. Design around RCA dependability!



**FERRITES** 

RCA Ferrite Cores—0.081-inch dia. high-speed, high-drive ferrite cores... 0.080-inch dia. medium-speed, low-drive ferrite cores. Both types are characterized by hysteresis loops which provide reversal of magnetic flux polarity when the correct current combination from two associated magnetized windings are coincidentally energized.

TRANSFLUXORS—originated by RCA—for switching and storing devices utilizing a ferrite core. Controls transmission of ac power according to level set by a single pulse and furnishes an output determined by the stored pulse for an indefinite length of time. Design around RCA dependability!



**DEFLECTION COMPONENTS** 

RCA Electronic Components are produced from select raw materials, manufactured under rigid standards of quality control. Include deflection yokes, horizontal output and high-voltage transformers and other accessory items for black and white and color TV (direct view and projection); cameras, image Orthicon and Vidicon, and special types for radar. Design around RCA dependability!



RELAYS

RCA's hermetically sealed, miniaturized relays for guided missile and other airborne applications requiring high reliability under conditions of extreme shock, vibration, humidity, heat and altitude. Type 203W2 85° C., 6 pdt, exceeding Military Standard 24115. Type 204W1 125° C., 6 pdt, exceeding Tentative Military Standard 24139 (USAF). Type 206W1 125° C., 2 pdt, exceeding Military Standards 5757 and 25018. Also special purpose relays. Design around RCA dependability!



TEST EQUIPMENT

RCA Test Equipment—versatile, accurate industrial tools for lab, production-line, general service, TV, radar, pulse and other applications in fields of biology, nucleonics, chemistry, electromechanics, etc. Comprehensive line includes WV-98A Senior VoltOhmyst\*\*, WV-87B Master VoltOhmyst\*\*, RCA WV-84A Ultra-Sensitive DC Microammeter, RCA WT-100A Electron-Tube MicroMhoMeter, RCA W0-78B 5" Oscilloscope. Design around RCA dependability!

For technical specifications and sales information on any of the RCA products shown above, contact your nearest RCA District Office, or write:

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COMPONENTS DIVISION

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STANDARD and MINIATURE **RACK & PANEL CONNECTORS** 



HERMETIC SEAL COMPONENTS



SOCKETS, PLUGS, AUDIO CONNECTORS



STANDARD & SUBMINAX COAXIAL CABLE



STANDARD & SUBMINAX RF CONNECTORS



PRINTED CIRCUIT CONNECTORS

and CUSTOM ENGINEERED COMPONENTS



AMPHENOL ELECTRONICS CORPORATION chicago 50, illinois

AMPHENOL CANADA LIMITED toronto 9, ontario

# **Industry**

# News

(Continued from page 38)

Paul J. Weber is the recently appointed Marketing Manager for the Instrumentation Div. of Ampex Corp.

John T. Lee has been named a Sales Engineer for Magnetics, Inc., Butler,

James Conto is now Sales Manager, Semiconductor Div., Federal Telephone and Radio Co.

George Q. Herrick has been named Vice-President for Research and Development at the Production Research Corp., Thornwood, N. Y. A pioneer in the field of electronics, Mr. Herrick was formerly Manager of the Industrial Products Research Div. of General Precision Laboratory.

John K. Gossland, engineering executive with Hoffman Laboratories for the past 6 yrs., has been appointed Executive Vice-President and General Manager.





J. K. Gossland

N. Altman

Norman Altman has been named Product Sales Supervisor at the Control Div. of Magnetics, Inc. Mr. Altman will supervise the sale of reactors and magnetic amplifiers for industrial control.

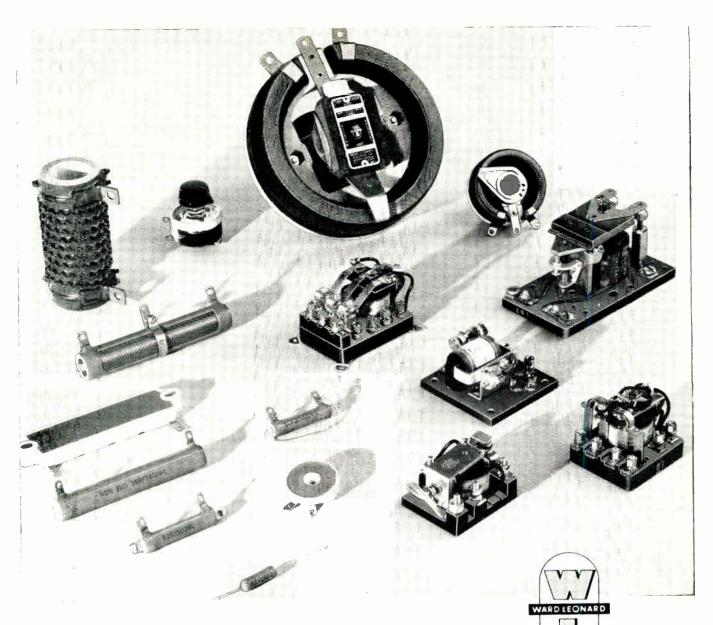
John D. Saint-Amour has been elected President of Assembly Products, Inc.

Charles J. Simon has been appointed to the position of Manager of Sales for Industrial Television in the General Electric Co.'s Technical Products Dept.

Thomas A. Callaghan, Jr., has been named Eastern Representative of the Ford Motor Company subsidiary, Aeronutronic Systems, Inc. (ASI). His office will be in the Wyatt Bldg. in Washington, D. C.

William R. Martin is now Chief Engineer and Product Manager of the RF Systems and Components Div. of the Electronic Specialty Co., Los Angeles, Mr. Martin comes from

(Continued on page 50)



# Design made easy with reliable RESISTORS, RELAYS, RHEOSTATS

Want to know how? These data-packed bulletins and catalogs will show you.

RESISTORS-you'll find the widest selection of stock power resistors ever offered by any manufacturer in Ward Leonard Catalog 15.

RELAYS -long, trouble-free life under the most adverse conditions is the big plus the system designer gets with the a-c and d-c relays described in Ward Leonard's relay catalog.

RHEOSTATS —complete application data on smoothacting 25- to 300-watt Vitrohm ring rheostats is contained in Ward Leonard bulletins 1105-16.

Write today for this helpful literature. You'll find plenty of design tips. And, you'll find Ward Leonard offers a wider selection of stock items, quicker service on made-to-order controls, and more performance per dollar than anyone else. Ward Leonard Electric Company, 94 South Street, Mount Vernon, N. Y. (In Canada: Ward Leonard of Canada, Ltd.—Toronto.)



NARD LEONARD MOUNT VERNON, NEW YORK













Result-Engineered Controls Since 1892

# FREQUENCY STANDARDS

### PRECISION FORK UNIT

TYPE 50

Size 1" dia. x 3¾" H.\* Wght., 4 oz.

Frequencies: 240 to 1000 cycles

Accuracies:-

Type 50 (±.02% at -65° to 85°C) Type R50 (±.002% at 15° to 35°C) Double triode and 5 pigtail parts required Input, Tube heater voltage and B voltage FREQUENCY STANDARD
TYPE 50L

Size 3¾" x 4½" x 5½" High Weight, 2 lbs.

Frequencies: 50, 60, 75 or 100 cycles Accuracies:—

Type 50L ( $\pm .02\%$  at  $-65^{\circ}$  to  $85^{\circ}$ C) Type R50L ( $\pm .002\%$  at  $15^{\circ}$  to  $35^{\circ}$ C)

Output, 3V into 200,000 ohms Input, 150 to 300V, B (6V at .6 amps.)



\*3 %" high 400 - 1000 cy.

### PRECISION FORK UNIT

Output, approx. 5V into 200,000 ohms

**TYPE 2003** 

Size 1 1/2" dia. x 4 1/2" H.\* Wght. 8 oz.

Frequencies: 200 to 4000 cycles

Accuracies:-

Type 2003 (±.02% at -65° to 85°C) Type R2003 (±.002% at 15° to 35°C) Type W2003 (±.005% at -65° to 85°C)

Double triode and 5 pigtail parts required Input and output same as Type 50, above

## FREQUENCY STANDARD

**TYPE 2005** 

Size, 8" x 8" x 7¼" High Weight, 14 lbs.

Frequencies: 50 to 400 cycles (Specify)

Accuracy: ±.001% from 20° to 30°C

Output, 10 Watts at 115 Volts Input, 115V. (50 to 400 cycles)



\*3½" high

400 to 500 cy. optional

### FREQUENCY STANDARD

TYPE 2007T TRANSISTORIZED

Size 11/2" dia. x 41/2" H.\* Wght. 7 ozs.

Frequencies: 240 to 1000 cycles Accuracies:—Same as 2003, above Type 2007S—Silicon type Input, 28V.

Output, Multitap, 75 to 100,000 ohms

 $*3\frac{1}{2}$ " in 2007S, 400 to 800 cycles.

### FREQUENCY STANDARD

TYPE 2121A

Size 8¾" x 19" panel Weight, 25 lbs.

Output: 115V 60 cycles, 10 Watt

Accuracy: ±.001% from 20° to 30°C Input, 115V (50 to 400 cycles)



## FREQUENCY STANDARD

TYPE: 2001-2

Size 3 % " x 4 1/2" x 6" H., Wght. 26 oz.

Frequencies: 200 to 3000 cycles Accuracy: ±.001% at 20° to 30°C Output: 5V. at 250,000 ohms

Input: Heater voltage, 6.3 - 12 - 28 B voltage, 100 to 300 V., at 5 to 10 ma.

### FREQUENCY STANDARD

TYPE 2111C

Size, with cover 10" x 17" x 9" H. Panel model 10" x 19" x 8¾" H.

Weight, 25 lbs.

Frequencies: 50 to 1000 cycles Accuracy: (±.002% at 15° to 35°C)

Output: 115V, 75W. Input: 115V, 50 to 75 cycles.





### **ACCESSORY UNITS**

for TYPE 2001-2

L—For low frequencies multi-vibrator type, 40-200 cy.

D—For low frequencies counter type, 40-200 cy.

H-For high freqs, up to 20 KC.

M-Power Amplifier, 2W output.

P-Power supply.

This organization makes frequency standards within a range of 30 to 30,000 cycles. They are used extensively by aviation, industry, government departments, armed forces—where maximum accuracy and durability are required.

WHEN REQUESTING INFORMATION PLEASE SPECIFY TYPE NUMBER

# American Time Products, Inc.

580 FIFTH AVENUE, NEW YORK 36, N.Y.

# NEW! Mincom's Magnetic Tape System

112,000 DATA BITS
PER INCH ON ½ INCH



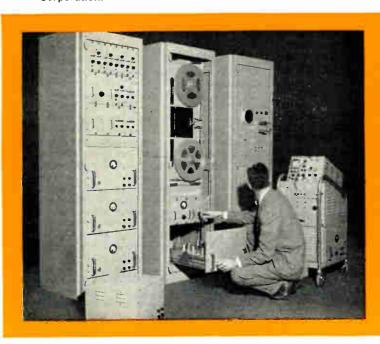
MAGNETIC TAPE

Mingoom's laboratories have developed multi-channel (as many as 7 channels on half-inch tape) magnetic systems, in which each channel is capable of directly recording the full frequency response of radar video, t-v video, high speed data signals, or other similar types of data information.

Minusonnis ten years of research have resulted in greater head definition, higher signal-to-noise ratios, uniform phase and frequency response—especially for organizations desiring an up-to-date system suitable for problems of the future.

Minocomis direct frequency recording is utilized for response from 200 cycles to 2.5 megacycles, and in addition, FM techniques can be used on each channel for extension of frequency response down to DC. Many special techniques have been developed to provide practically an error-free recording system, i.e., wow and flutter compensation, drop-out reduction devices, high accuracy speed control, etc. Equipment has been developed for both airborne and ground-base use which meets unilitary requirements for ruggedness. A number of systems are in use and have proved to excel in performance and reliability.

Complete systems have been delivered to: Westinghouse Electric and Manufacturing Company • United States Army Signal Corps • United States Air Force • Temco Aircraft Corporation.





Write for complete specifications





DIVISION

MINNESOTA MINING & MANUFACTURING COMPANY

2049 South Barrington Avenue, Los Angeles 25, California
Formerly Electronics Division, Bing Crosby Enterprises, Inc.

# Performance Facts

# from hidden features grow...

The performance facts are that Mallory FP capacitors do last longer—hold their rated capacity longer even under severe temperature and ripple conditions. Their high standards of uniformity and quality are in keeping with the equipment now on your design boards and production lines.

# Among the hidden features behind these facts...

# Etched Cathodes...

standard for years in FP capacitors, at no cost premium.

When ordinary capacitors are exposed to high ripple current or to repeating charge and discharge, an oxide film on the cathode develops rapidly during the reverse peak of each cycle. This reduces cathodic capacitance and, because it is in series with that of the anode, reduces the resultant net capacitance.

An etched cathode has so much higher capacitance per unit area that the buildup of oxide film does not reduce the series net capacitance enough to become troublesome.

In terms of field performance for you, Mallory FP capacitors mean longer and more reliable life for the filter components . . . more dependable service by your equipment to your customer.



Another hidden feature of Mallory FP capacitors ... 85° C construction. Here is built-in longer life under severe temperature conditions and the elimination of voltage derating of capacitors for circuits designed for this service.

#### Serving Industry with These Products:

Electromechanical — Resistors • Switches • Tuning Devices • Vibrators Electrochemical — Capacitors • Mercury and Zinc-Carbon Batteries Metallurgical — Contacts • Special Metals • Welding Materials

Parts distributors in all major cities stock Mallory standard components for your convenience,

Write, or ask the Mallory representative for your copy of the new Bulletin 4-11A. It contains a comprehensive study of the Mallory type FP capacitor, its application, and complete electrical and mechanical specifications.

Expect more ... get more from



For your convenience...

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– on

# BU SEALS\*

Complete "on the Spot" Engineering Service Coast-to-Coast, in Canada and Overseas

Large Strategically-Located Staff Provides Engineering Service When You Need It!

Fast, Economical, Experience-Proven Solutions to Your Sealing Problems!









# **Hundreds of Standard Types Available –**

These service-proven, extra rugged E-I hermetic scals are the answer to the grueling environments encountered in today's military and commercial scal applications. Practically indestructible, E-I compression scals provide maximum immunity to shock, vibration and variations in temperature.

\*Canadian Pat. 523,390; British Pat. 734,583; U. S. Patent Pending — All Rights Reserved

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#### **EXPORT:**

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New York, New York ROOKE INTERNATIONAL CORP. 13 Faut Abril St.



New High-Temperature UNION AC Relay rated from -65° C. to 125° C., 115 Volt, 60 to 400 cycles. Suitable for airborne circuits, including jet planes and missiles.

Miniature relay applications are getting hotter all the time—and many of them call for self-contained AC relays.

To meet these needs, UNION has developed AC relays incorporating silicon rectifier assemblies. They'll withstand temperatures from -65° C. to 125° C. The size is the same as the 85° C. UNION AC Relay.

New Hi-Lo Contacts, too! These contacts permit switching loads of two amperes or dry-circuitry level in the one relay. Or, you can get gold alloy contacts for dry-circuitry use.

### OTHER ADVANTAGES

Vibration resistance up to 1.000 cycles at 15 G's and shock in excess of 50 G's.

Life expectancy. Tested through 1,000,000 operations.

Coil resistance. 3,700 ohms.

Small size, lightweight. Measures only  $\frac{1}{2}$ ° higher than our DC relays and weighs about 5 oz. All other construction features are the same as the DC relay.

Types and Mountings. Available in 6 PDT or 4 PDT models, plug-in or solder-lug connections and all the usual mountings.

Meets or exceeds all requirements of MIL-R-5757-C, MIL-R-25018, and MIL-R-6106B.

Write for complete information, Ask for Bulletin 1012.

GENERAL APPARATUS SALES

# **UNION SWITCH & SIGNAL**

DIVISION OF WESTINGHOUSE AIR BRAKE COMPANY

PITTSBURGH 18, PENNSYLVANIA

# Industry

# News

(Continued from page 44)

Lockheed Aircraft Corp., where from 1950, he had been in charge of the complete Radiation Systems Group.

Neal K. McNaughten will now serve as Manager of the Professional Products Div., Ampex Corp.

Roy M. Skeirik has assumed the duties of Manager of the Production Dept.'s Mechanical Assembly Section of Electrodata Div. of Burroughs Corp.





A. A. Segal

D. V. Cropsey

Dale V. Cropsey assumes the new title of Director of Marketing at Potter and Brumfield, Inc.

Comdr. Edmund B. Redington USCG (Ret.) has joined RETMA as a Staff Engineer and Liaison Member of the Engineering Dept. assigned to the Military Products Div.

Warren Knapp will now serve as Manager, New York Financial Operations, RCA Defense Electronic Products.

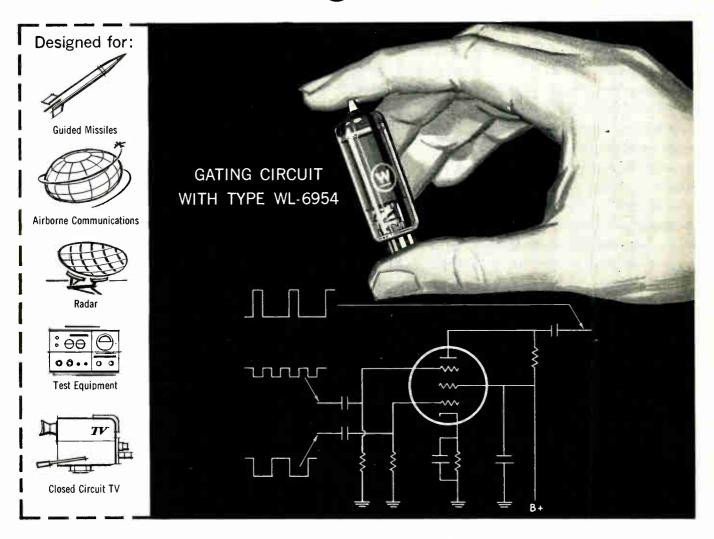
Andrew H. Bergeson, Vice-President in Charge of Engineering at Stromberg-Carlson, has returned to Washington, D. C. in charge of the firm's Capitol City office.

Ernest H. Ulm has assumed the duties of General Sales Manager for the Semiconductor Div. of Sylvania Electric Products, Inc.

Robert L. Wells has been named Manager of the Westinghouse Electric Corp.'s Atomic Power Dept. in Pittsburgh, Pa.

George W. Baughman, Vice-President, Union Switch and Signal-Div. of Westinghouse Air Brake Co., has been named a Fellow in the American Institute of Electrical Engineers. The Fellowship was accorded Mr. Baughman for "his contributions to the design and application of railway signaling control systems."

# Now! Simplify pulse-forming circuits with new Westinghouse WL-6954



# NEW SHARP CUT-OFF DUAL-CONTROL PENTODE OFFERS EXCEPTIONALLY HIGH TRANSCONDUCTANCE

The new Westinghouse WL-6954 is a 7-pin miniature pentode designed for application in Military and Industrial equipment as a gating, coincidence, mixing or delay tube.

Built to high standards of reliability, it meets MIL-E-1C vibration test specifications. It permits simplification of pulse-forming circuits and has the advantage of high transconductance from Grid 3 to Plate.

The WL-6954 is available in production quantities

YOU CAN BE SURE ... IF IT'S

# Westinghouse

ELECTRONIC TUBE DIVISION . ELMIRA, N. Y.

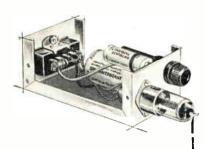
for immediate delivery. It's one more reason why—when you want highest quality tubes for Military or Industrial purposes—you'll find it wise to check Westinghouse.

SAMPLE ORDERS INVITED! IMMEDIATE DELIVERY.

Commercial Eng. Dept., Elect Westinghouse Electric Corp.,	
Please send me complete data o WL-6954 pentode.	on your new
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COMPANY	
ADDRESS	

# IBM

# offers <u>Design</u> <u>Engineers</u> a creative challenge in a brand-new field



Electronic Tabulation: Typical of the electronic innovations being realized at IBM—Lexington is this revolutionary sensing unit. It permits IBM Electrics to "read" right from the paper being typed—automatically stopping the carriage at the desired spot.

Building "electronic intelligence" into electric typewriters means exciting new career opportunities at IBM, Lexington, Ky., in the Blue Grass Country.

IBM is now assembling a select group of designers and engineers to help apply the miracles of electronics to electric typewriters. If you are an E.E., an M.E., or a designer, there is a splendid chance to use your ingenuity and resourcefulness at IBM's new research laboratory in Lexington, Kentucky.

For the electric typewriter is destined to become far more than just a typewriter. It is changing in concept both as a single entity and as an integral part of an overall electronic business machine system. As a designer or engineer at IBM, you will find tremendous challenge, because the new electric typewriter is an advanced step in the science of communications; one worthy of the creative talents of outstanding engineers.

# Many challenging career opportunities open!

In addition to the research laboratory, IBM's new manufacturing plant at Lexington offers excellent opportunities for professional and technical men:

- Electronic engineers
- Electronic technicians
- Industrial engineers
- Machine designers
- Methods engineers
- Plastics engineers and mold designers
- Product cost estimators
- Test engineers
- Tool and model makers
- Tool designers and engineers

**Blue Grass Region:** You'll find living conditions ideal! IBM pays moving and travel expenses.

For the facts about a career at IBM—Lexington, please write to:

Mr. R. A. Whitehorne, Dept. 4606 Manager of Engineering Recruitment International Business Machines Corporation 590 Madison Avenue, New York 22, N. Y.





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# AMERICA'S LARGEST EXCLUSIVE FACILITY

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TOROIDAL COMPONENTS







# C-A-C's New Large Facilities Provide PRODUCTION ADVANTAGES

The new C-A-C building, covering over 50,000 square feet on a single level, makes possible complete departmentalization utilizing the most modern production facilities and techniques. Over 750 employees, working as a well-organized team—and highly experienced in their specialized fields—offer an unexcelled service in the processing of orders. Year 'round air-conditioning and humidity control not only provide greater employee comfort, but contribute to higher precision workmanship.

The C-A-C organization was built on service—it pioneered many of the recent developments in toroidal windings and packaging techniques. Now, in the most complete laboratory of its kind (including environmental testing facilities), C-A-C engineering and research is progressing to bring you new developments—new advantages.

# SEE YOUR C-A-C MAN FOR ADDITIONAL INFORMATION



NEW YORK—H. Gray Assoc., YE 2-3825 21-10-33rd Rd., Long Island City 6, N. Y.

PHILADELPHIA—C. R. Hile Co., Elgin 6-2266 Hillview Road, Box 144, Paoli, Pa.

BALTIMORE—C. R. Hile Co., Northfield 5-4500, L. G. Korman, 5006 Kenwood, Baltimore 6, Md.

LOS ANGELES—S. O. Jewett, State 9-6027, 13537 Addison St., Sherman Oaks, Calif.

TUCSON—S. O. Jewett, Pat Maguire, East 7-1644 1025 S. Van Buren, Tucson, Arizona

SYRACUSE—Naylor Electric Co., 2-3894, 1115 Hills Building, Syracuse, N. Y.

MERIDEN—Henry Lavin Assoc., Beverly 7-5527, P. O. Box 196, Meriden, Conn.

DALLAS—Norvell Assoc., Forest 8-4180, 5622 Dyer St., Dallas, Texas

ST. PAUL—Northport Engineering, Inc. Midway 6-2621, J. D. Webster, 1729 Selby St., St. Paul 4, Minn.

ST. LOUIS—E. W. McGrade Co., Parkview 5-6550, 1110 S. Brentwood, St. Louis 17, Mo.

ORLANDO-C. R. Hile Co., 711 Magnolia Ave., Wm. Lehmann, Orlando, Fla.

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CLEVELAND—Ernie Kohler Assoc., Olympic 1-1242, 8905 Lake Ave., Cleveland 2, Ohio

DAYTON—Ernie Kohler Assoc., Oxmoor 2813, 2600 Far Hills Ave., Dayton 9, Ohio

SEATTLE—Testco, Mohawk 4895, D. Thompson, Boeing Field, Rm. 105, Seattle 8, Wash.

INDIANAPOLIS—Morris, Cunningham & Mitchell, Clifford 1-3222, 1-0225, 5-6268, 6101 College Ave. Bldg., Indianapolis 20, Ind.

KANSAS CITY—E. W. McGrade Co., Logan 1-3709, P. O. Box 8876, Kansas City, Mo.



# Communication Accessories Company

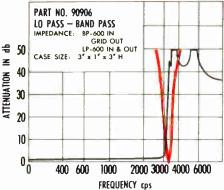
A Subsidiary of Collins Radio Company

LEE'S SUMMIT, MISSOURI PHONE KANSAS CITY BRoadway 1-1700



# L-C AND MECHANICAL FILTERS





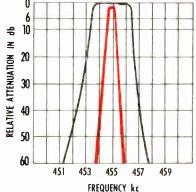
### L-C FILTERS

L-C filters utilizing high Q toroidal inductors and high quality capacitors are the heart of these frequency selective components. Recent developments of magnetic materials and highly stable capacitors have extended the useful frequency and temperature range of electrical wave filters. Use of impedance transformations, near unity coupling, and other applications of advanced network theory result in high performance units in small volume packages.

Low pass, high pass, band pass and band stop filters can be designed covering sub audio to over 500kc range. Line, interstage or other impedances can be specified. Filters can be designed for direct paralleling where required. High permeability cases and the closed toroidal form assure low hum pickup. Temperature stabilization on the order of 0.1% frequency can be attained through use of negative TC compensation to offset slightly positive coil and capacitor characteristics.

Depicted response curve is for an integrally packaged low pass—band pass filter employing the latest design and production procedures. This unit uses less chassis area and is an excellent example of subminiature coil usage, impedance transformations, and printed circuitry. Hermetically sealed to meet the military specifications.





#### **MECHANICAL FILTERS**

(Developed and mfd. by Collins Radio Co.)

The Mechanical Filter provides far better bandpass selectivity in one small sealed unit than a series of bulky conventional IF transformers. Excellent characteristics allow closer spacing of information channels, lower adjacent-channel interference and improved signal to noise ratios. These Filters have been proven in thousands of military and commercial receivers, transmitters and microwave multiplex systems.

Units are designed for center frequencies of 60 to 600kc and various 6db bandwidths from 300cps to 16kc. In general, bandwidth is limited to 10% of the center frequency. In many types, the 60db bandwidth is only twice the 6db bandwidth. Filters have a frequency shift with temperature of  $\pm$  10ppm/°C. Normal insertion loss for the filters is 6 to 8db. Most types comply with Mil-E-5400 on shock and vibration.

In receiver IF amplifier design the Mechanical Filter replaces one of the usual IF transformers and is fixed tuned. Preceding or following stages may be coupled with subminiature toroidal transformers using fixed tuning. Variable selectivity is obtained by using two or more Filters and switching connections.



# MAGNETIC AMPLIFIERS AND TRANSFORMERS



## **MAGNETIC AMPLIFIERS**

Custom computer amplifiers with high stability and linearity can be designed having single or multiple inputs to your specific needs. Servo drives and relay actuators are also available. Frequency selective networks can be integrally designed to provide additional useful control functions. Proven packaging techniques insure minimum size—proven toroidal construction assures highest performance.

Typical	Temp	eratures	-60°C.	to	+150°C.
Typical	Line	Frequencies	60cps	to	6000cps



### MISSILE POWER TRANSFORMERS

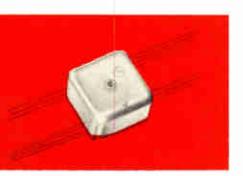
Recommended for supply frequencies above 400 cps and where size performance and reliability are factors. Thin nickel alloy toroidal cores reduce core losses. Toroid structure cures stray field problems.

**SEALED MISSILE POWER SUPPLIES** combining toroidal power transformers, toroidal filter chokes, hi temp capacitors and silicon rectifiers. These units offer multiple outputs and low ripple. Low stray field of toroidal elements obviate usual internal shielding. Mag regulation where required.



### LAMINATED TRANSFORMERS AND INDUCTORS

A complete line of laminated constructed units are now available through CAC. Our highly qualified engineering staff, a well complimented laboratory, humidity controlled production facility with modern manufacturing equipment guarantees conformance with any specifications. Both power and audio transformers employing advanced techniques can be supplied either hermetically sealed or encapsulated to 150° C. ambients. Catalogues, supplied upon request, cover a wide range of standardized designs including omnirange and ILS Filters.



### PRECISION RATIO COMPUTER TRANSFORMERS

Toroidal form of construction is ideal for designing precision ratio transformers since the turns of wire are applied to and adjusted on the core. Normal production procedure of zero turn accuracy, high permeability cores, low phase shift, and near unity coupling will yield laboratory quality on any production run. Advanced design and newest packaging methods provide optimum performance with minimum size and rugged construction.



# TOROIDAL INDUCTORS



### **UNCASED TOROIDS**

Basic inductor component. Plain, wax or plastic dipped with flex-leads. Hi Q values 10cps to 10mc. Complete range of sizes: subminiature, wedding ring and up to 12" OD. Standard inductances stocked for immediate delivery. Mass production utilizing CAC-designed winding equipment enables swift completion of large orders.



### PLASTIC CASED TOROIDS

CAC compression molded toroids per Mil specs have become the standard of the industry. Most compact design — may be stacked — mounted by center bushing which absorbs mounting pressures — sturdy, tinned terminals — arrangements available up to 6 terminal connections. Standard inductance values shipped from stock — special inductances and configurations supplied promptly on request.



### HERMETICALLY SEALED CASED TOROIDS

CAC "HS" series provides metal encased, hermetically sealed units complying with MIL specifications. Mounting area minimized — extremely low hum pickup — terminals of proven design using Teflon assure permanent seal at temperature extremes. Rugged construction — convenient mounting facilities. To insure stability, cores are thermo-cycled prior to encasement. Standard inductances in stock.



#### SUBMINIATURE TOROIDS

Uncased, plastic molded and hermetically sealed in three standard core types (others available). Designs for all requirements—for chassis mount or printed circuits.

For the engineer whose design considerations dictate the utmost in electrical performance versus size, CAC's subminiature toroids present the answer.



# PERMEABILITY-TUNED VFO's (Mfd. by Collins Radio Co.)

Mechanically stable—sealed against atmospheric changes—temperature and voltage compensated. Available as complete packages for incorporation into your equipment. Superior accuracy, stability and linear dial calibration for your transmitters, receivers, test equipment or frequency standards.



# AUTOTUNES (Mfd. by Collins Radio Co.)

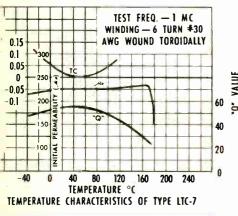
Electro-mechanical position systems. Ideally suited for components requiring rotary or linear motion. Positioning accuracies of 0.05 angular degrees with reset accuracy to 0.0001 inch relative to ¼ inch shaft size. Designed for the lifetime of any equipment. Fast—versatile—high torque—accurate—dependable.



# Communication Accessories Company

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### FERRITE CORES (Mfd. by Collins Radio Co.)

Requirements for extreme temperature stability and consistently reproducible cores encouraged the Collins Radio Company to enter the magnetic materials field. Now, after several years of intensive research and development, these cores are available through CAC in many standard or custom forms for all applications. Temperature characteristics developed exhibit 10 times improvement over previous materials. Special saturation and other properties are presently available. Technical bulletins upon request.



# HEAT DISSIPATING TUBE SHIELDS (Mfd. by Collins Radio Co.)

Heat treated beryllium copper corrugated liner and socket insert are highly resilient and accommodate wide variations of tube diameter. Base liner reduces bulb temperature in most critical tube area. Interchangeable with standard JAN equipment. Tube cannot work out of socket through long term vibration. Maximum electrostatic shielding.

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		MINIATURE LOW LEVEL AUDIO TRANSISTORS (25 mw)
0	2N207	general purpose micro-miniature low level transistor, typical beta of 100, 15 db maximum noise figure
ACTUAL	2N207A	10 db maximum noise figure version of 2N207
SIZE	2N207B	5 db maximum noise figure version af 2N207
111	T0031	50 volt version of 2N207
))))(d		Special versions of the 2N207 to selected beta ranges are available.
1 1 1	1	HIGH FREQUENCY, HIGH GAIN (MICRO ALLOY) TRANSISTOR
	T1166	combines high frequency response with high gain for general purpose high frequency applications and switching circuits, typical $f_{\text{max}}$ 60 mc
1000		HIGH FREQUENCY SILICON TRANSISTORS (150 mw)
,	T1025	general purpose, 10 mc silicon transistor
9	T1159	high speed silicon switch for speeds up to 5 mc characterized by extremely low switch resistance
		HIGH FREQUENCY SURFACE BARRIER TRANSISTORS
ACTUAL SIZE	5B100 2N344/ 5B101	general purpose, minimum $f_{\text{max}}=30$ mc, beta over 10.5 general purpose, good beta control (11-33)
	2N345/ 5B102	general purpose, higher beta (25-110)
111	2N346/ 5B103	general purpose, higher minimum f <sub>max</sub> (60 mc)
	2N128	general purpose, with military specifications, beta 19-66, minimum f <sub>max</sub> 45 mc
	2N129	general purpose, with military specifications, beta over 11.5
	2N240	switching transistor, focb> 30 mc
	2N299	for tuned amplifiers, military specifications, 20 db minimum power gain at 10 mc, minimum f <sub>max</sub> 90 mc
	2N300	for video amplifiers, 50 mc minimum current gain bandwidth product, f <sub>max</sub> over 85 mc
	T1050	high frequency transistor for 50 mc oscillator mixers and 10-15 mc
		bandpass amplifiers, 22 db typical power gain at 10 mc
	L.	Other types with special parameter controls are available.
		MEDIUM POWER ALLOY JUNCTION AUDIO TRANSISTORS (100 mw)
	2N223	39-120 beta driver transistor
ACTUAL	T1000	45-85 beta version of 2N223
SIZE	T1001	70-120 beta version of 2N223
	2N224	high gain output transistor, 2N225 is a matched pair
11110	2N226	medium gain version of 2N224, 2N227 is a matched pair
	8	Versions of the 2N224 with various beta ranges and higher betas are available singly or in matched pairs.
		AUDIO POWER TRANSISTORS
	T1040	40 volt, 7 watt power transistor, thermal drop 3°C/w maximum
	T1041	40 volt, 10 watt power transistor, thermal drop 2.5°C/w maximum
	T1167	60 volt, 12.5 watt power transistor

Proven performance of Philco Hermetically Sealed Transistors has made them the basis for design in commercial and military applications where reliability is the major consideration. Philco transistors range from the world's smallest germanium transistors now in production to silicon transistors with excellent performance at temperatures from  $-60^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$ .

Philco produces a wide range of transistors designed for special applications in accordance with customer requirements. The Philco Micro-Alloy Transistor is in production. Specifications and design quantities are available. New and exciting transistor types, such as the Philco Micro-Alloy Graded Base Transistor, are now in development. In keeping with our policy, specifications will be made available as soon as these units reach pilot production and are available in design quantities.

Make Philco your prime source for complete transistor application information... write to Lansdale Tube Company, Dept. 1-2, Lansdale, Penna.

Regional offices—Merchandise Mart Plaza, Chicago 54, Ill.—10589 Santa Monica Blvd., Los Angeles 25, Calif.

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LANSDALE TUBE COMPANY DIVISION

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plus CUSTOM DESIGNING TO SPECIFICATIONS







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STANDARD EI CORES







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RECORDING HEADS

# Performance proven magnetic ferrites available for every electronic application

Computer and Automation Systems Designers!

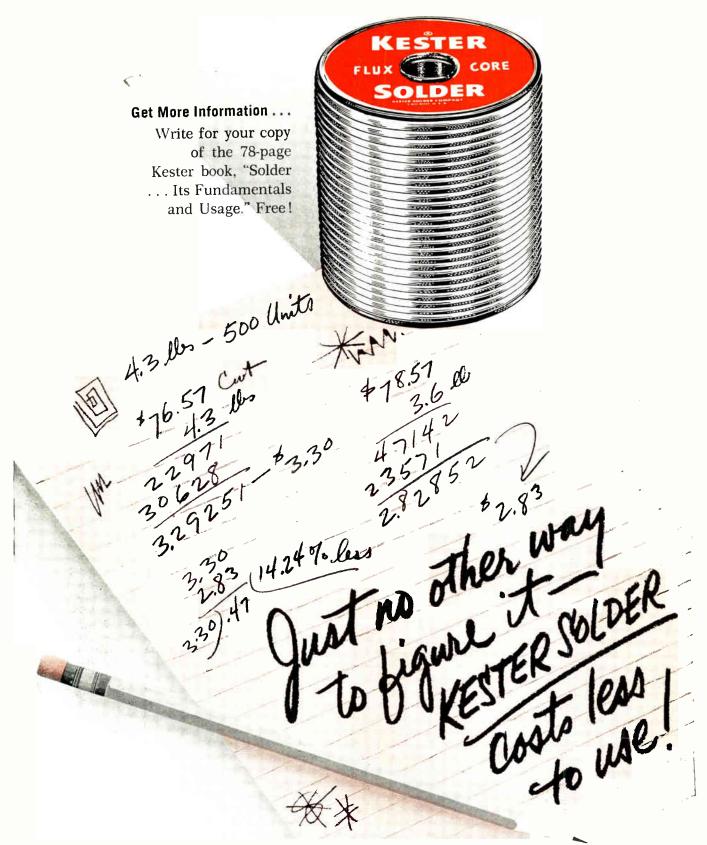
Ferramic memories provide a new design concept in the area of computers and automation. Magnetic memories combine increased speed, accuracy and reliability with light weight, compact size. Write for bulletins on cores or complete memory planes.

General Ceramics ferrites for television, radio and instrumentation offer designers and engineers a wide range of economical standard components. All are application tested for highest efficiency electrically and mechanically. The fact that leading electronic manufacturers specify Ferramics is due to the program of continuing research and equipment modernization by which General Ceramics keeps pace with the industry's needs as to quality and costs! Bulletins are available; write to General Ceramics Corporation, Keasbey, New Jersey, Dept. JD.



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Sold through leading electronic parts distributors by Eric Resistor Corp.

Fluoroearbon Products Inc.

# **Books**

## Television Receiving Equipment

By W. T. Cocking, M.I.E.E. Published 1957 Ly Philosophical Library, Inc., 15 E. 40th St., New York 16. 454 pages, ix pages. Price \$15.00.

l)evelopment in television continues at so rapid a pace that the preparation of this fourth edition has necessitated the complete rewriting of % of it. This new edition thus amounts almost to a new book.

Band III reception is thoroughly treated as well as the increasing problems of attaining freedom from interference combined with high definition. Magnetic deflection has been expanded to five chapters and synchronizing methods are fully discussed, including flywheel sync. Automatic gain control systems are explained in detail.

The book assumes that the readers will have a fair knowledge of ordinary sound-radio technique, since this is a necessary preliminary to an understanding of television. The treatment is largely non-mathematical, but formulas useful to the designer have been collected in appendices.

American as well as British and other standards are included and indications are given of how they affect receiver design.

### Quality Control for Plastics Engineers

Edited by Lawrence M. Debing, Published 1957 by Reinhold Publishing Corp., 430 Park Ave., New York 22. 142 pages, viii pages, Price \$4.95.

This work introduces the subject of statistical quality control to plastics engineers, the molders and fabricators of plastics products and the manufacturers of plastic materials. It refers specifically to examples of application currently used in the plastics industry. Assuming the reader has no previous knowledge of statistical quality control, the subject is developed simply and clearly to enable those responsible for production of plastics products to use the basic statistical procedures in order to achieve the highest possible standards of performance.

## An Introduction to Junction Transistor Theory

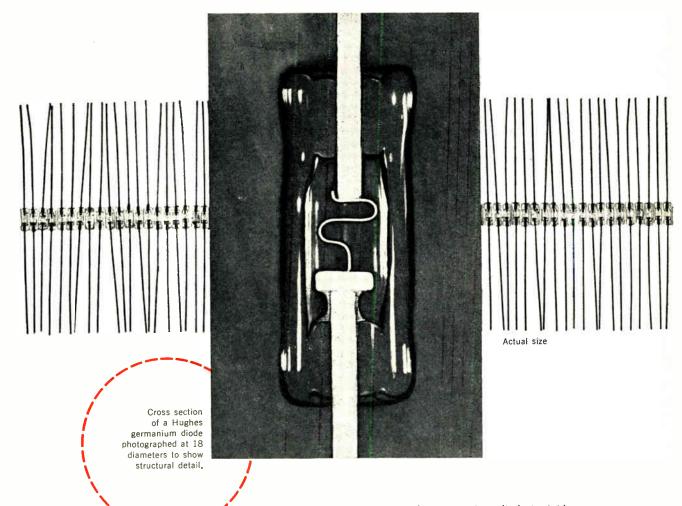
By R. D. Middlebrook. Published 1957 by John Wiley & Sons, Inc., 440 Fourth Ave., New York 16. 296 pages, xxiv pages. Price \$8.50.

This study serves as a connecting link for the electronic engineer between the physical processes in semiconductors and the circuit properties of a junction transistor. In this area, it forms a bridge between the domain of the physicist and that of the engineer.

The major purpose of the book is to provide a continuous development

(Continued on page 68)

# Close-up of a diode



Inside, where it counts, a Hughes germanium diode is rigid, sturdy—well able to stand up under conditions of severe shock and vibration. With a microscope, you can see why clearly... the germanium crystal permanently bonded to one lead . . . the whisker firmly welded to the second lead . . . the point of the whisker welded to the crystal . . . the fusion-sealed glass envelope. Such positive mechanical stability (basic to every Hughes diode type) is vital to the achievement of electrical stability—and reliability. Hughes diodes are manufactured, first of all, for reliability. So specify Hughes, and be sure of successful application to your electronics and communications equipment.

For descriptive literature please write:

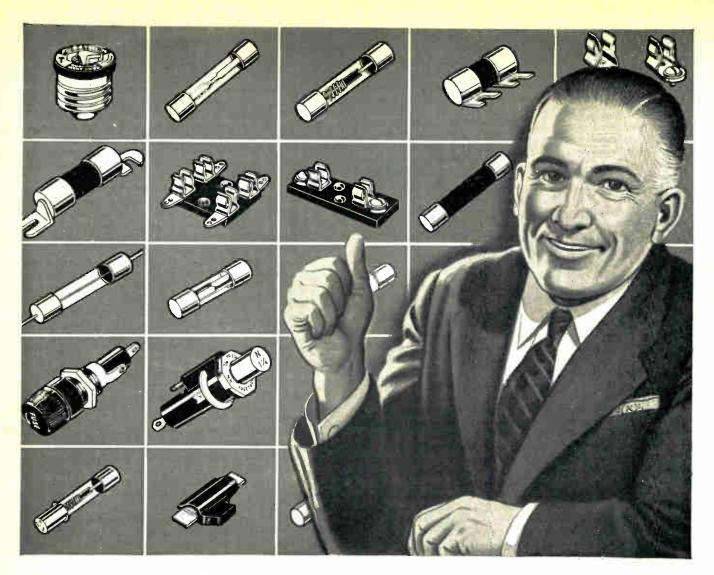
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Under all Service Conditions . . .

HERE'S WHY... To assure unfailing dependability, BUSS fuses are electronically tested. A sensitive device automatically rejects any fuse not correctly calibrated, properly constructed and right in all physical dimensions.

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Save engineering time and money on special problems in electrical protection. The BUSS fuse engineers, in the world's largest fuse research laboratory, will work with you to find the right answer. If possible, a fuse or fuseholder already available in wholesalers' stocks will be selected, so that your equipment can easily be serviced.

For more information on BUSS and FUSE-TRON Small Dimension fuses and fuseholders . . . Write for bulletin TT. Bussmann Mfg. Co. (Div. of McGraw-Edison Co.), University at Jefferson, St. Louis 7, Mo.

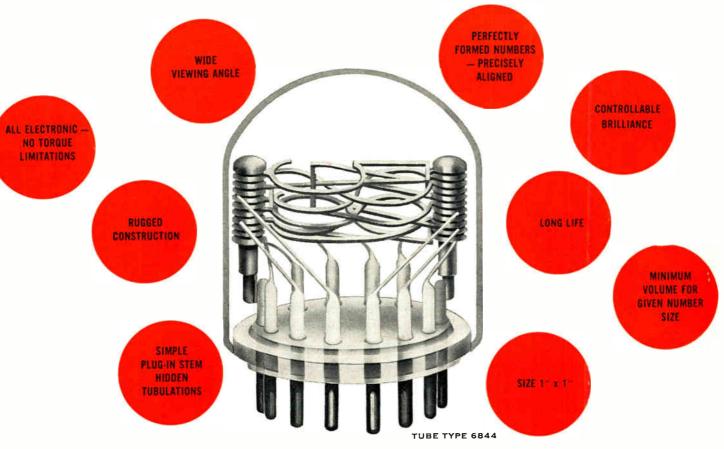
BUSS fuses are made to protect - not to blow, needlessly



Makers of a complete line of fuses for home, farm, commercial, etectronic, automotive and industrial use.

64

# SEEING IS BELIEVING



# SOME TYPICAL APPLICATIONS

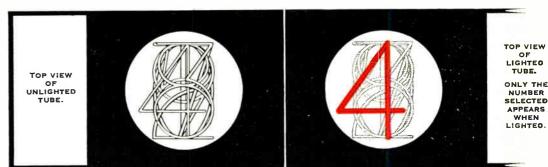
- 1. INDUSTRIAL CONTROL
- 2. INSTRUMENTATION
- 3. COUNTERS
- 4. COMPUTERS
- 5. MILITARY ELECTRONIC INDICATORS
- 6. CHANNEL INDICATOR
- 7. INDICATOR BOARDS
- 8. DIGITAL VOLTMETERS
- 9. PAGING SYSTEMS
- 10. ELEVATORS
- 11. RADAR

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**NIXIE** is a gas-filled, cold cathode tube which contains all the numerical digits 0 to 9, any individual number can be simply selected and displayed in a common viewing area, the ideal method for converting electro-mechanical or electronic signals directly to readable characters.

NIXIE Design Advantages include: Unlimited Rate of Change. Lowest cost in-line Indicator. Lowest Power in-line Indicator. Operation Unaffected by Temperature Changes. Multiple Remote Indications From One Driving Circuit. Production Uniformity From Tube to Tube and Number to Number. Human Engineered for Performance, Appearance, and Reliability.



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# 3:1 to 150,000:1 Ratio Range • Up to 18 Foot Pounds Torque

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MOTOR GEAR TRAIN												<b>5</b> 0	
Gear Ratio	No-Load Speed	Nominal Voltage D.C.	Voltage Range	No-Load Current	Normal	Normal Load OZ.IN.	Normal	Operating Temp. Range	Size	Overall Length	Motor	Mounting	Oster Type
5.68:1	1800	28	24-32	0.4	1800	5.0	1.0	-55° To +85°C	13	3.777	P.M. GOVERNOR	FACE	13R- 9102-08
17.9:1	600	28	24-32	0.4	600	12.0	1.0	−55° To +85°C	13	3.930	P.M. GOVERNOR	FACE	13R- 9102-06
32.3:1	300	28	24-32	0.4	300	12.0	1.0	−55° To +85°C	13	3.935	P.M. GOVERNOR	FACE	13R- 9102-02
67:1	150	28	24-32	0.4	150	12.0	0.6	−55° To +85°C	13	4.092	P.M. GOVERNOR	FACE	13R- 9102-05
85:1	150	27.5	_	.25	130	50.0	0.7	−55° To +85°C	13	4.095	P.M.	FACE	13R- 9101-11
109:1	109	28	24-32	0.4	100	32	0.6	-55° To +85°C	13	4.094	P.M. GOVERNOR	SYNCHRO	13R- 9102-12
109:1	180	27.5		0.4	175	30	0.5	-55° To +100°C	13	2.843	P.M.	FLANGE	13R- 9104-01
125:1	75-90	28	-	.25	70-85	20	0.3	-55° To +71°C	13	3.920	P.M.	FACE	13R- 9101-13
157:1	60	28	24-32	0.4	60	12.0	0.6	−55° To +85°C	13	4.095	P.M. GOVERNOR	FACE	13R- 9102-03
285:1	48	35	_	.25	46	160	0.6	-55° To +71°C	13	4.038	P.M.	FACE	13R- 9103-01
333:1	30	28	24-32	0.4	30	12.0	0.6	−55° To +85°C	13	4.317	P.M. GOVERNOR	FACE	13R- 9102-04
410:1	15	27	25-29	0.3	15	8.0	0.3	−55° Te +85°C	13	4.400	P.M. GOVERNOR	FACE	13R- 9102-11
1043.8:1	5-10	27	24-30	0.15	7	30	0.2	-55° To +71°C	13	4.450	P.M. Brake	FACE	13R- 9105-01
1044:1	5-10	27	24-30	0.15	7	30	0.2	-55° To +71°C	13	3.910	P.M.	FACE	13R- 9101-12
2214:1	3-4	6	_	1.2	3.4	30	1.2	-55° To +71°C	13	4.454	P.M.	FACE	13R- 9101-04
3241:1	5.5	35	_	.35	5.5	18	0.4	-55° To +71°C	13	4.454	P.M.	FACE	13R- 9101-03
5933:1	1.3	30	_	.13	1.3	30	0.15	-55° To +71°C	13	4.816	P.M.	FACE	13R- 9101-10
21,707:1	2-3	120	_	.25	2-3	12	0.25	−55° Te +71°C	13	3.475	P.M.	FLANGE	13R- 9101-16
322:1	80	110	-	0.2	30	240	0.3	−55° To +71°C	15	3.815	SPLIT SERIES	FLANGE	15R- 9201-01
407:1	22	27	_	0.2	20	8	0.2	-20° To +50°C	15	3.989	SPLIT SERIES	SYNCHRO	15R- 9201-03
433:1	30	26	_	0.6	25	260	1.2	-50° To +80°C	15	3.110	SHUNT	FACE	15R- 9201-02
955:1	<b>3</b> 3	27	_	0.6	12-18	420	1.0	-55° To +50° C	15	4.419	SPLIT SERIES	FLANGE	15R- 9201-08
<b>26:1</b>	240	27.5	24-29	0.65	240	40	1.3	-18° To +71°C	17	5.315	SHUNT GOVERNOR	SYNCHRO	17R- 9251-01
4.26;1	1800	28	_	9.0	1800	12	1.85	−30° Te +55°C	24	4.640	SHUNT GOVERNOR	FACE	24R- 9451-01

Speed tolerance on governed motors is  $\pm 2\%$  over voltage and an ambient temperature range. Closer speed tolerance units can be designed to fit the particular application.

Many other variations available. There is an Oster motor-gear-train to fit your exact specification. Consult Oster specialists today, sending your detailed requirements.



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Interesting, varied work on designing transistor circuits and servo mechanisms. Contact Mr. Zelazo, Director of Research, in confidence.



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industry since its earliest days.

Listed here are the B&A "Electronic Grade" Chemicals now offered in small package sizes. They are readily available from convenient stock locations, together with many other B&A "Electronic Grade" Chemicals produced in bulk for use in TV tube and receiving tube manufacture. Additional special high-purity chemicals can be custommade to meet your needs.

Write for free booklet! Contains information on electronic chemicals for semiconductors, tubes, printed circuits; sulfur hexafluoride for gaseous insulation;

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"Electronic Grode" Chemicals for Semiconductors: Acetone

Acid Hydrofluoric, 48%
Alcohol Methyl, Absolute (Methonol)
Acetone Free

Alcohol Propyl, Iso
Corbon Tetrochloride
Ether, Anhydrous
Hydrogen Peroxide, 3% Solution
Hydrogen Peroxide, 30%
Hydrogen Peroxide, 30%
Sodium Corbonote, Monohydrote

Trichloroethylene



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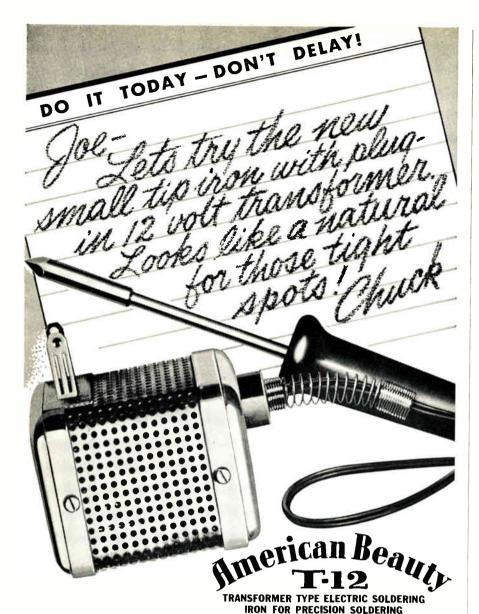
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Many other B&A chemicals commonly used for semiconductor production are available in Reagent A.C.S. or other high-purity grades.

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DETROIT 2, MICHIGAN

# **Books**

(Continued from page 62)

of basic junction transistor theory starting from fundamental physical principles and closing with practical circuit representations. It presents a new practical equivalent circuit which represents the small-signal behavior of a junction transistor over its useful frequency range as an amplifier.

Much of the material offered here can be found nowhere else in book form.

## The Oscilloscope At Work

By A. Haas and R. W. Hallows. Published 1956 by Philosophical Library, Inc., 15 E. 40th St., New York 16. 171 pages. Price \$10.00.

This book, originally published in France, is a practical guide to the CRT's many applications, though having a special reference to radio and TV receivers

An important feature is the wealth of oscillograms which help to make the book of such practical value. Numerous circuit drawings and other diagrams have also been provided to clarify the text.

Although, as its title implies, the book deals mainly with the uses of the instrument and correct interpretation of the oscillograms produced, it also contains much valuable information on oscilloscope circuits, construction and adjustment, while one chapter is devoted to explaining how it can be made to diagnose its own troubles when faults develop.

### **Books Received**

## Essential Characteristics

Published 1957 by General Electric Co., Electron Tube Div., Schenectady, N. Y. 228 pages. Price \$.75.

A revised and enlarged seventh edition of the popular tube handbook.

### Patent Notes For Engineers, 7th Edition

By C. D. Tuska. Published 1956 by McGraw-Hill Book Co., Inc., 330 W. 42nd St., New York 36. 192 pages. Price \$4.00.

## National Standards in a Modern Economy

Edited by Dickson Reck. Published 1956 by Harper & Bros., New York. 372 pages. Price \$5.00. Copies available from Dept. P-1, American Standards Assn., 70 E. 45th St., New York.

### Transistor Techniques

Published 1956 by Gernsback Library, Inc., 154 W. 14th St., New York 11, 96 pages, paper bound. Price \$1.50.

## The Cook Technical Review, Vol. 3, No. 1.

Published 1956 by Cook Research Laboratories, 2700 N. Southport Ave., Chicago 14. 28 pages. Price \$1.00.

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# electrical electronic **APPLICATION**

### TOPHET A® (80 Nickel 20 Chromium)

Non-magnetic, high tensile strength, temperature coefficient of resistance approximately 85 PPM, used for resistors and potentiometers, high temperature applications. 650 ohms/CMF.

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Non-magnetic, highest tensile strength, tem-perature coefficient of resistance 20 PPM maxi-mum, used for precision resistors and potentio-meters below 200°C. The original 800 ohm alloy.

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An alloy for sealing to hard glass for electronic and hermetic sealing applications.

NILSTAIN® (Stainless Steel — 300 Series) Popular types of stainless steel in wire, ribbon

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### TENSITE, SYLVALOY, COBANIC, and MODIFIED HILO

For directly heated cathodes; alloys have excellent emissive and physical properties.

### CATHODE ALLOYS

For indirectly heated cathodes. HIGH NICKEL ALLOYS, custom vacuum or air melted for active, passive and normal emissivity.

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Most widely used lateral grid wire, also supplied silver plated.

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For use in higher temperature applications than regular Mangrid, higher physical properties and hot strength.

### PERMOCARB and MAGNOCARB

(Precarbonized grid wire) Operates cooler because of black body effect,

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MH Series telephone type relays are small, versatile and available in contact arrangements up to 18 springs (9 per stack) DC and a variety of contact materials. Silver contacts (18") are rated 5 amp. 115 V. 60 cycles resistive load. High temperature models operate from  $-65\,^{\circ}\mathrm{C}$  to  $+125\,^{\circ}\mathrm{C}$ .



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BD "Star Series" relays are used in applications demanding maximum reliability. These 26.5 V. DC relays were designed to surpass shock test II per MIL-R-5757C, 50 G and vibration Grade III per MIL-R-25018; 5-2000 cps at 15 G. This 6 pole, double throw relay is operative in ambients of —65°C to +125°C.



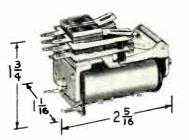
## air frame

AC Series relays are designed for air-frame controls and other applications calling for good mechanical shock resistance. Relays are enclosed in dust proof cover; phenolic base meets U/L spacing and creepage distances. Double pole double throw contact arrangement in AC and DC models.



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PR Series relays are rugged, fast acting . . . designed for high current or high voltage switching. Floating movable contact carrier assures ample wipe and contact pressure. AC or DC models available with contact arrangements up to double pole double throw. Supplied open or with dust cover.



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LS Series relays—Medium coil, telephone type—have special hinge construction resulting in a mechanical life in excess of 100 million operations. Contact arrangements go to 20 springs (10 per stack). Power required: 100 mw per movable arm. DC only to 200 V. Open or hermetically sealed models.



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KM Series relays meet the demand for miniaturization and multiplicity of action within a single relay. Contact arrangements available from single pole single throw to three pole double throw. May be ordered in coil voltages up to 48 V. DC in open or sealed models. Weight, open, 7/8 oz. Sealed, 1-1/4 oz.

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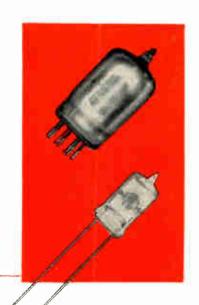


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# glass holders for crystals!

Absolute and permanent vacuum attainable only with glass, isolates the crystal from all factors detrimental to dependable performance. Truly, here are crystals designed with the future in mind — future requirements of application and design as well as the long life of the unit far into the future.



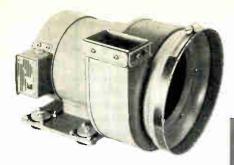


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MANUFACTURING COMPANY, INC.

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World's Largest Producer of Quartz Crystals



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VANEAXIAL FANS N<sub>s</sub>=50,000 - 125,000



PROPELLER FANS
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# Engineered to $\frac{N\sqrt{Q}}{\Delta P^{0.75}} = L_s$

Our Fans and Your Equipment
Become Smaller, Quieter and Cheaper



CENTRIFUGAL BLOWERS - TIGHT SCROLL N<sub>s</sub>=9,000 - 40,000



RADIAL WHEEL BLOWERS N<sub>s</sub>=4,000 - 20,000



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N<sub>s</sub>=900-9,000



The wide range of ROTRON FAN types enables our Application Engineers to match accurately the SPECIFIC SPEED ( $N_s$ ) of our air movers with the LOAD-SPEED ( $L_s$ ) characteristics of your equipment for ultimate cooling efficiency. Send for CATALOG SHEET #20201-5.

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Your best buy for uses requiring rugged strength, low dielectric loss, precision tolerances. Dependable performance. Produced by the source offering widest choice of specialized ceramic compositions in the field. Withstand high temperatures. Hard. Minimize chipping, breaking. Chemically inert. Permanently rigid. Cannot rust, corrode or deteriorate with time. Wide latitude of shapes and sizes. Pressed . . . extruded . . . machined. The right equipment for every operation, every size order . . , to improve quality, decrease cost. Rapid delivery of uniform parts. Prototypes available . . . small lots for test purposes without special tooling.

## VERSATILE AlSiMag 196 STARS IN SUCH APPLICATIONS AS THESE:

Atomic Applications
Appliance Parts
Bobbins
Bushings
Coil Forms
Dowels
Grommets

High Frequency

Insulators

Spacers
Standoffs
Supports
Switchbacks
Terminal Boards
Transformer
Bushings
Trimmers
Tube Parts

**Mounting Plates** 

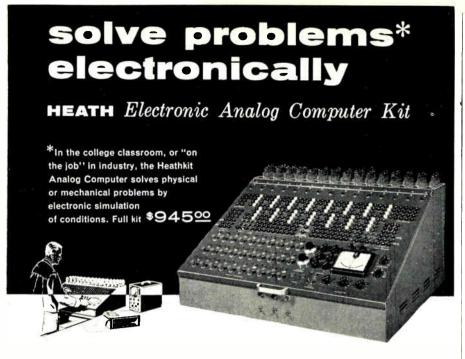
Why not investigate the many advantages of AlSiMag 196 for your application? Sketch or blue-print, together with details of operation, will bring you complete information.



## AMERICAN LAVA

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Ideal for industry, research, or instructional demonstrations. Incorporates such features as:

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Because it is a kit, and you, yourself, supply the labor, you can now afford this instrument, which ordinarily might be out of reach economically. Write for full details today!

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#### **Personals**

Gerald R. Saur has been appointed project engineer of "Sage" for the Radio Corporation of America at Topsham, Maine. He will direct all operations at this site.

Dr. Andre Gobat has been appointed Associate Laboratory Director at Federal Telecommunication Laboratories, a div. of IT&T, Nutley, N. J.

Martin Braude has been appointed Vice Pres. in charge of Engineering for General Transistor Western Corp., Los Angeles, Calif. He has been engaged in the electronics field for 12 years.





M. Braude

Dr. R. Weller

Dr. Royal Weller, Chief Scientist, Naval Air Missile Test Center, Point Mugu, Calif. will join Stromberg-Carlson, a div. of General Dynamics Corp. as Vice Pres. in charge of engineering. He will operate in a general staff capacity as coordinator consultant to all engineering groups.

Will Allen Finley has joined the Guided Missile Research Div. and John P. Malbrain has joined the Electronic Instrument Div. of the Ramo-Wooldridge Corp., Los Angeles 45.

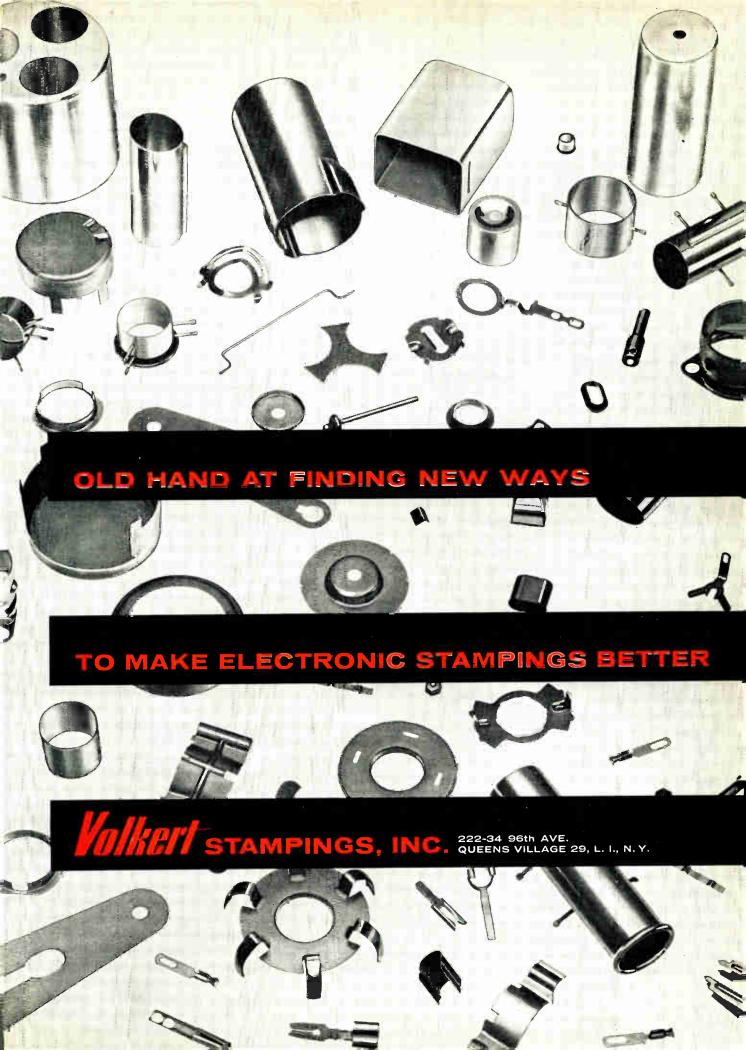
Benjamin P. Baker, Advisory Engineer has just received another patent award for \$5,000. This brings his award totals to more than \$18,000. He is with the Power Circuit Breaker Dept. of Westinghouse Electric Corp., Pittsburgh 30, Pa.

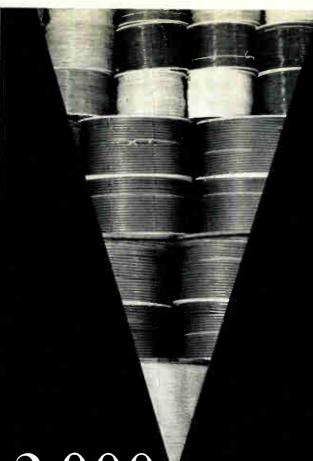
Sheldon Plotkin, has been recently appointed a Senior Project Engineer for Levinthal Electronic Products, Inc., Palo Alto, Calif.

David Taylor has joined The Systems Div. at Daystrom, Inc., as a staff engineer specializing in instrumentation.

W. Earl Stewart has been named Chief Engineer for The Standard Register Co., Dayton, Ohio.

W. W. Lampkin, Director of Manufacturing for the Aircraft Div. of Hughes Tool Co., has been elected National Chairman of the Aircraft Industries Association's Manufacturing Committee.





#### **ELECTRONIC WIRE**

High Temperature Wire Teflon Wire Sub-Miniature Wire MIL-W-5086 Aircraft Wire MIL-C-7078 Aircraft Wire MIL-W-16878B Hook-up Wire

Type B Type C

Type D

Type E Teflan Insulation
MIL-W-76A Hook-up Wire

Type LW Type MW

Type HW

Type MW Glass Braid
Type MW Nylan Jacket
Type MW Shielded
Antenna Wire
RG-Coaxial Cable

**Rubber Sheathed Service Cord Cord Sets** 

Tinned Copper Shielding & Bonding

**Bus-Bar** 

Tinned Copper Wire

Magnet Wire

**Test Lead Wire** 

Hi-Voltage Wire Shielded Microphone Shielded Multi-Conductor Cable Shielded Speaker Cable

**Multi-Conductor Flexible** 

# electronic wire items | N STOCK!

#### **INSULATING TUBING** AND SLEEVING

PVC-105 Plastic Tubing per Spec. MIL-I-631B, ASTM-D876, ASTM-D922

PVC-744 Plastic Tubing per Spec. MIL-1-7444A

PIF-130 Plastic Impregnated Fiberglass Tubing per Spec. MIL-1-3190, NEMA-VS1,

ASTM-D372

TFN-250 Teflon Tubing SRF-200 Silicone Rubber Coated Fiberglass Tubing

SFS-400 Silicone Impregnated Fiberglass Sleeving

HTF-1200 High Temperature

Fiberglass Sleeving **PVC-60 Low Temperature Plastic** 

Tubing
PLE-70 Polyethylene Tubing
VTS-135 Varnish Impregnated **Tubing & Sleeving** 

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WIRE

. . . from prototype to mass production

ALPHA WIRE CORP., 200 Varick St., New York 14, N. Y.

In Canada: ALPHA ARACON RADIO, 29 Adelaide St. W., Toronto 1, Ontario.

having your ups and downs?



... if they involve WIRE WOUND RESISTORS €

# DALOHM has the answer

You can depend on



All Dalohm products are carefully designed and skillfully made to assure you of supreme quality and dependability, plus the widest versatility of application. Here are outstanding examples of the Dalohm line:

#### WIRE WOUND ENCAPSULATED PRECISION RESISTORS

Surpass MIL-R-93R

Completely impervious to penetrating effects of salt ions, humidity, moisture and corrosive gases and vapors, Dalohm's new encapsulating material has very high di-electric strength. Its coefficient of expansion matches that of the resistor wire itself, eliminating the possibility of distorted wiring and shorted turns. All are non-inductive, pi-wound.

#### **NEW SUB-MINIATURE SIZES**





- Resistance range 10 ohm to 1 megohm
- Tolerances 0.05%, 0.1%, 0.25%, 0.5%, 1%, 3%
- Powered at 0.1 watt to 0.8 watt
- Temperature coefficient 0,00002/Deg. C
- Maximum operating temperature 125° C.

SIZES			TERMINALS
L	ength	Dia.	
WWA 13	3/8 ′′	1/8''	WWL—lugs;
WWA and WWP 22	1/4	1/4"	WWA—axial leads:
WWL and WWR 23	3/8′′	1/4"	WWR — radial leads:
WWA, WWL, WWR, WWP 24	12"	1/4"	WWP — parallel leads.
WWA 26	34"	1/4"	,,,,,,, p
WWA, WWL, WWR, WWP 34	1/2"	3/8′′	
WWA, WWL. WWR, WWP 36	3,4"	3/8′′	
AAAAW, AAAAT, AAAAL, AAAAL OO	/4	/8	

#### STANDARD SIZES





WWA

WWL

- Resistance range 0.1 ohm to 5 megohms
- Tolerances 0.05%, 0.1%, 0.25%, 0.5%, 1%, 3%
- Powered at 0.5 watt to 2 watts
- Temperature coefficient 0.00002/Deg. C
- Maximum operating temperature 125° C.

SIZES
-------

	Length	Dia.
WWA and WWL 44	1/2"	1/2"
WWA and WWL 45	5/8′′	1/2"
WWA and WWL 48	1''	1/2''
WWA and WWL 4-12	1½′′	1/2"
WWA and WWL 4-16	2''	1/2''

#### **TERMINALS**

WWA-axial leads; WWL-lugs.

Also available in MIL Types RB-09, RB-15, RB-16, RB-17, RB-18, RB-19

#### JUST ASK US:

WWA, WWL, WWR, WWP 38

You are invited to write for the complete catalog of Dalohm precision resistors, potentiometers and collet-fitting knobs. If none of our standard line fills your need, our staff of able engineers and skilled craftsmen equipped with the most modern equipment, is ready to help solve your problem in the realm of development, engineering, design and production. Just outline your specific situation.

# DALE PRODUCTS, INC.

1304 28th Avenue Columbus, Nebr., U.S.A. EXPORT DEPT: Pon-Mor Corp. 1270 Broadway

New York 1, N.Y

New Hipermag\* cores...

now up magnetic amplifier yields 35%

All core sizes in stock, delivery immediate

A large eastern manufacturer reports Westinghouse Roberts-tested Hipermag cores have increased Magamp\* yields from 70% to 95%. Here are just three of the many reasons why.

- All the quality in Hipermag cores is proved out with the exclusive Westinghouse Roberts dynamic tester. This test provides four values actually measuring magnetic properties of cores under simulated amplifier conditions. Test values are equivalent to final core performance in your finished reactor.
- Westinghouse Hipermag toroidal cores are wound with Hipernik® V. Hipernik V is a highly oriented iron nickel alloy of exceptional temperature stability, high remanence and low coercive force, making these cores ideally suited to highquality saturable reactors.
- For especially high shock resistance, cores can be hermetically-sealed, and their rugged nylon or aluminum cases filled with a Westinghousedeveloped silicone oil. Prevents core damage. Minimizes magnetic change due to strains, pressure, shock or vibration. Provides foolproof protection when reactors are vacuum impregnated, encapsulated or resin treated.

A Westinghouse Hipermag specification will give you perfectly matched, quality cores in abundance—all sizes are in stock for delivery today! Also available in a full range are Hipersil® and Hiperthin\* cores. Call Westinghouse Electric Corporation, or write Specialty Transformer Department, P. O. Box 231, Greenville. Pa.

\*Trade-Mark J-70797

YOU CAN BE SURE ... IF IT'S

# Westinghouse







Engineered by Tinnerman...

# 4 SPEED NUTS® eliminate 8 parts in resistor assembly, cut costs 50%!

Tremendous assembly savings are often possible when Tinnerman Speed Nuts are "designed into" new products. This is an example: Corning Glass Works, Corning, New York, adopted 4 special Speed Nut brand fasteners and cut assembly costs on new power-type glass resistors by 50%!

Assembling power resistors is normally a slow and complex operation. Yet a pair of one-piece, spring-steel Speed Nut angle brackets eliminated 4 of the 9 parts required by another fastening method and cut assembly time to a few seconds!

These corrosion-resistant, vibration-proof fasteners hold the resistor under live spring tension to avoid mechanical shock. Locating washers, lock washers and nuts are eliminated. Also, one-piece Speed Clamps\* that double as terminal bands eliminate 2 lock washers and 2 nuts.

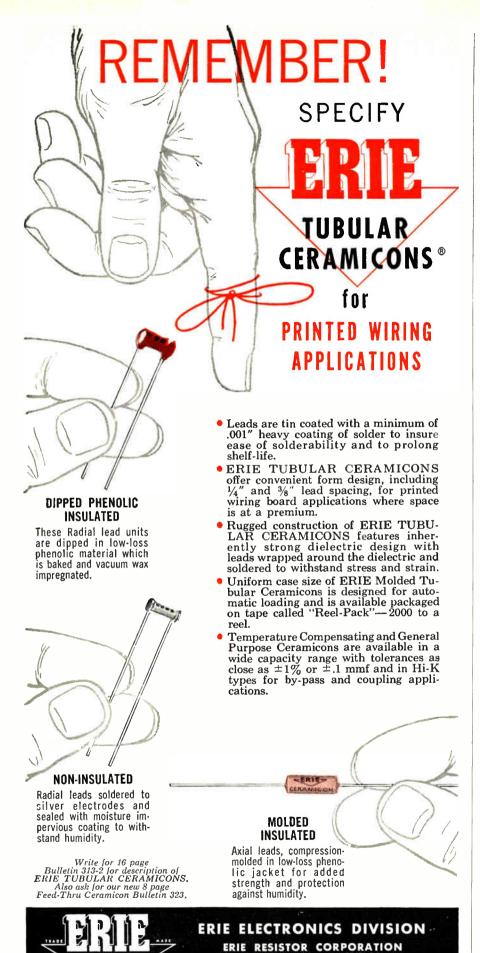
Speed Nuts permit maximum assembly savings on *new* products, but you can probably make worthwhile savings *right now* on current products.

Over 8000 types available. See your Tinnerman representative or write for Bulletin 333-1.

TINNERMAN PRODUCTS, INC. BOX 6688 · DEPT. 12 · CLEVELAND 1, OHIO



CANADA: Dominion Fasteners Ltd., Hamilton, Distario, GREAT BRITAIN; Simmonds Aerocessories Ltd., Treforest, Wales, FRANCE: Simmonds S. A. 3 rue Salomon de Rothschild, Suresnes (Seine). GERMANY: Mecano-Bunc'y GmbH, Neidelberg.



### News of Reps

#### **REPS WANTED**

Leading manufacturer of electromechanical equipment, such as vibration calibrators, frequency invertors and voltage regulators, seeks representation in the Texas and Florida area. This is an established electronic manufacturer with a new line of precision instruments. (Ask for R6-1)

Prominent manufacturer of molded epoxy cases, connectors and other epoxy products seeks reps for all areas of the U. S except Upstate New York. Firm is well known in their field. (Ask for R6-2.)

Mid-lantic Chapter of The Representatives elected the following officers: Donald G. Brown, Pres.; John T. Stinson, V.P.; L. Parker Naudain, Sec.; and James P. Faries, Treas.

Harold Stone has joined the Industrial Sales Dept. of the Logan Sales Co., Northern California reps.

Jack Simons has joined the Jack Fields Sales Co., 5 Howard St., Verona, N. J. as a partner.

Henry Lavin Associates of Meriden, Conn. have received a Reps of the Year award from the Elco Corp.

Hi-Quality Distributors, Inc. have been named distributors for Du Mont TV Receivers in the Western Section of Pennsylvania, five counties of West Virginia and four counties in Ohio. They are located at 6609 Woodwell St. in Pittsburgh, Pa.

T. Lewis Snitzer Co. are now established in their new building at 5:354 W. Pico Blvd., Los Angeles 19, Calif.

William J. Noonan has been appointed sr. special representative, chain and wholesale dept., for International Business Machines Corp. Eastern Region.

Ray Sturgill and Associates, Charlotte, N. C. have been appointed sales service reps of Burgess-Manning, Penn Instrument Div. in Western North Carolina and Eastern Tenn.

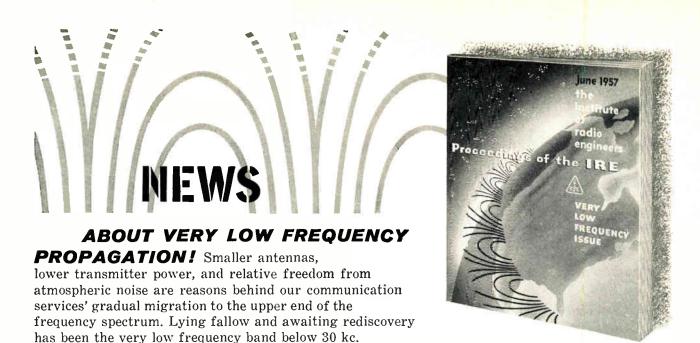
Gene French Co., Albuquerque, New Mexico has been appointed sales and technical service reps in New Mexico, Arizona, Colorado and Utah for the Narda Corp.

Shalway Corp. of Palo Alto, Calif. and Crawley England has been named to promote the sale of Southern Electronics products in 58 countries outside the U. S. and Canada.

P. Gordon Lea, Walter Rathja and Richard Riedell have been named reps for the Industrial Division of the Dobeckman Co.

(Continued on page 86)

Manufacturing Subsidiaries
HOLLY SPRINGS, MISSISSIPPI • LONDON, ENGLAND • TRENTON, ONTARIO



Now, because VLF offers a reliable means of communicating over vast global distances, there is a marked revival of interest. It is now known that VLF has highly stable propagation characteristics which make it possible to transmit data to distant

points with unusual fidelity and precision. Where greater accuracy is required, such as very long range radio navigation systems and international transmission of frequency standards, VLF promises to open doors to many new and important uses.

#### June Proceedings of the IRE gives you the facts about VLF

This year, the Boulder Laboratories of the National Bureau of Standards and the IRE Professional Group on Antennas and Propagation co-sponsored a Symposium at Boulder, Colorado, on the propagation of very low frequency radio waves. From the papers given at this important meeting the editors of *Proceedings* have chosen those of broadest interest for publication in the June, 1957, issue.

Typical of the service offered members of IRE is this VLF report — to be used now and referred to for years to come. If you are not a member of *The Institute of Radio Engineers* be sure to reserve a copy of the June *Proceedings of the IRE*, today!

#### Partial Contents of this VLF issue:

"A Technique for the Rapid Analysis of Whistlers," by J. K. Grierson, Defense Reserve Board, Ottawa, Ontario, Canada.

"VLF Radiation from Lightning Strokes," by E. L. Hill, School of Physics, University of Minnesota.

"Some Recent Measurements of Atmospheric Noise in Canada," by C. A. McKerrow, Defense Reserve Board, Ottawa, Ontario, Canada.

"Intercontinental Frequency Comparison by Very Low Frequency Radio Transmission," by J. A. Pierce, Croft Laboratory, Harvard.

"The Mode Theory of VLF Ionospheric Propagation for Finite Ground Conductivity,"
by James R. Wait, National Bureau of Standards, Boulder,
Colorado.

"The Geometrical Optics of VLF Sky Wave Propagation," by J. R. Wait & A. Murphy, National Bureau of Standards, Boulder, Colorado.

"Characteristics of Atmospheric Noise from 1 to 100 Kc/s," by A. D. Watt & E. L. Maxwell, National Bureau of Standards, Boulder, Colorado.

"The Present State of Knowledge Concerning the Lower Ionosphere," by A. H. Waynick, The Pennsylvania State University.

"Noise Investigation at VLF by the National Bureau of Standards," by W. Q.
Crichlow, National Bureau of Standards, Boulder, Colorado.

"Reflection at a Shapely-Bounded Ionosphere," by I. W. Yebroff, Stanford University.

"The Attenuation Versus Frequency Characteristics of VLF Radio Waves," by
J. R. Wait, National Bureau of Standards, Boulder, Colorado.

"The Waveguide Mode Theory of the Propagation of VLF Radio Waves," by K. G. Budden, University of Cambridge, England.

#### PROCEEDINGS OF THE IRE

1 East 79th Street, New York 21, New York

☐ Enclosed is \$3.00

☐ Enclosed is company purchase order for the June, 1957, issue on VERY LOW FREQUENCY.

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All IRE members will receive this June issue as usual. Extra copies to members, \$1.25 each (only one to a member).



The Institute of Radio Engineers
1 East 79th Street New York 21, New York

## BIRD COAXIAL LINE INSTRUMENTS

"Thruline"
DIRECTIONAL
R F
WATTMETERS

MODEL 43



#### Direct Reading

25-1000 megacycles . . . 10W — 100KW . . . "thru" type . . . for power measurement in complete systems under operating conditions . . . insert between transmitter and antenna or load to provide an accurate and simple means of measuring direct or reflected power . . . plug-in elements determine full scale power range and frequency range. Get Bulletins W-400 for detailed specifications.

Model	Line	Impedance	Frequency Range	Full Scale Power	Con- nector	
43	RG-8/U etc.	50 ohms	25-60; 50-125 100-250; 250-500; 400-1000 mc	10; 25; 50; 100; 250; 500 W	N; C; HN; UHF	
4712	15/8	50 ohms	200-500 400-1000 mc	.5; 1.0; 1.5; 2.5; 5.0 KW	Rtma Std.	
460	31/8	50 ohms	200-500 mc	1; 2.5; 5; 10	Flange	
480	31/8	51.5 ohms	400-1000 mc	25; 50 KW		
490	61/8	51.5 ohms	200-500 mc	25; 50 and 100 KW	Steeve	

#### "Termaline" RF ABSORPTION WATTMETERS

MODEL 611



#### Accurate

30-500 megacycles . . . 1/2 watt-5 KW . . . "load" type . . . portable . . . direct reading wattmeter . . . accuracy  $\pm$  5% of full scale . . . non-radiating load for power measurement. For complete specification on all available models, write for Bulletins TW-600.

Model	Freq. Range	Max. Power	Power Range Scales	Input Connector
611	30-500 mc	60W	0-15; 0-60	Female N
612	30-500 mc	80W	0-20; 0-80	remate N
67	30-500 mc	500W	0-25; 0-100; 0-500	Coplanar with adapter to UG-21/U;
67(*	30-500 mc	2500W	0-100; 0-500; 0-2500	(optional) RG-17 & RG-19 cable
824*	30-220 mc	5000W	0-5000	assemblies: adapters to rigid lines

\*Water cooled (other available models described in specification sheets)

### "Termaline" RF LOAD RESISTORS

MODEL 888



Re	f	le!	cti	O	n-	Fre	99
esigned	to	term	inate	50	ohm	coaxia	l line

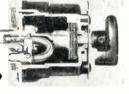
Designed to terminate 50 ohm coaxial line with minimum reflection . . . low VSWR . . . . non-radiating . . . water cooled ratings 2500 W to 50 KW . . . air cooled ratings to 1500 W . . . ratings can be increased by forced air externally applied. For detailed specifications get Bulletins R-800.

Model	Max. Power	Freq. Range	Max.* VSWR	Connector
80	5W	D-1KMC	1.1	"N", "C", "BNC"
80A	20W	0-500MC	1,1	
81	SOW	D-1KMC	1,1	N Female
818	80W	0-1KMC	1.1	1
82A	500W	0-1KMC	1,1	Coplanor with adapter to UG-21/U
883	1.2KW	0-1KMC	1.1	LC
888	1.5KW	D-1KMC	1.1	31/8 Flanged

\*Other VSWR requirements can usually be met by special selection.

#### COAXIAL SWITCHES





#### Dependable

Small compact design permits the "Coaxwitch" Selector to be incorporated into many electronic units where repeated channel switching is required. Finger-tip operation — pull knob, rotate and push in to make contact. Bulletin CS-6 contains full specifications.

Model	74	718	72R	72-2
Positions	Six	Eight	Reversing Switch	Two
Coaxial Circuits	One	One	Two	Two
Connector	models to	receive UG-	rs are standard 21/U series plug les and connector	. Use

## COAXIAL RF FILTERS



#### Rugged

High pass . . . low pass . . . band pass . . . band elimination . . . designs utilize both distributed and lumped constant . . . feature low insertion loss and high stop band attenuation . . . many designs available . . . "know-how" and physical facilities for quantity production . . . Get Bulletin CF-6.

Complete

	Low Pass	Low Pass	Low Pass	Low Pass	High Pass	Bond Pass
Model*	5310	5311	522	819-1200	530	5131
Cut Off	90 mc	160 mc	400 mc	1200 mc	420 mc	45 mc &
						105 mc
Stop .	100-	180-	500-	1900-	100-	33.7-
Band	180 mc	320 mc	2000 mc	4000 mc	390 mc	39.7 mc
		ł			!	120-
				ŀ		1000 mc
Max.	100W	100W	150W	100W	50W	25W
Power						
VSWR in p.	b. 1.5	1.5	1.35	2 to 1	2.5	1.6
Connec- tors	Femo	ile N	Ма	le-Female	N	Female BNC

\*Other model specs on request.

#### *NEW* BIRD CATALOG

Write in for your copy now!



# RF POWER ABSORPTION AND MEASUREMENT



# **BIRD** ELECTRONIC CORPORATION

1800 EAST 38th STREET . CLEVELAND 14, OHIO . EXPRESS 1-3535

FAST PHOTOGRAP

15,000,000
PICTURES SECOND

Here at Los Alamos, the development of high speed photography has produced framing cameras of unprecedented framing rates and exposure times. These cameras are capable of taking as many as 90 frames at rates as high as 15 million frames a second. They employ the technique of sweeping the image, reflected from a rapidly rotating mirror, over a set of correcting lenses onto the recording film. This results in the effective stopping of image motion within the frame. In addition to the creation of new optical components, the construction of these cameras has involved the development of techniques for rotating mirrors of substantial size at speeds as high as 22,000 revolutions per second.

Used in a wide variety of research programs as well as in the Laboratory's weapon investigations, instruments such as these typify the excellent resources, in facilities and in the capability for creating wholly new experimental methods, enjoyed by the scientists of Los Alamos

For an illustrated brochure about Los Alamos write to:

Director of Personnel Division 1805



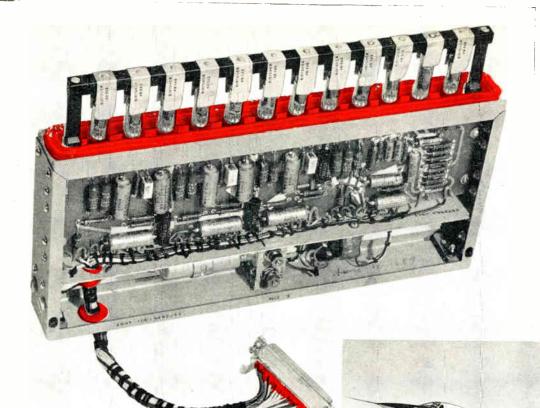
The enlarged frame above shows the collision of a steel ball and an aluminum plate at an approximate velocity of 4 millimeters/microsecond, illustrative of studies of interaction of metals at high impact velocity. The cutaway drawing shows some of the features of one of the Laboratory's high speed framing cameras.

scientific laboratory

OF THE UNIVERSITY OF CALIFORNIA

LOS ALAMOS, NEW MEXICO

•



Silastic parts are used in many of the fire control electronic "packages" on Convair's new B-58 Hustler because they remain resilient at both high and low temperatures. Some of the parts touch miniature tubes that operate at 350 F. Others are subjected to oven-hot "cooling" air. All must withstand severe vibration at temperatures as low as -65 F when the equipment is not in use during high altitude flight. Designer and producer . . . Emerson Electric Manufacturing Company, St. Louis.



# protects electronic packages on B-58

#### Get latest data on Silastic Mail coupon today

Dow Corning Corporation, Dept. 1618 Midland, Michigan .

Please send me latest data on Silastic

COMPANY

ADDRESS

\*T.M.REG.U.S.PAT.OFF.

SILASTIC,\* Dow Corning's silicone rubber, can be used in many different ways to improve the protection and performance of delicate electrical and electronic equipment. Whether used in the form of seals, cable clamps, grommets, encapsulating or potting compounds, plugs, gaskets, feed throughs, or wire and cable insulation, SILASTIC offers amazing thermal stability, excellent dielectric strength and superior resistance to moisture, ozone, corona, corrosive atmospheres. Write for complete data or contact your rubber supplier.

#### Typical Properties of Silastic for Flectrical Use

. This was a substrict of Ficefillial 02	G		
• Temperature range, °F	-130	to	500
• Tensile strength, psi	600	to	900
• Elongation, %	150	to	300
• Insulation Resistance, megohms/1000 ft.	1000	to	3000
• Dielectric strength, volts/mil.			500
• Dielectric Constant, 10 <sup>2</sup> cycles per			
second, nominal	3	3.2	

If you consider ALL the properties of a silicone rubber, you'll specify SILASTIC.

first in silicones



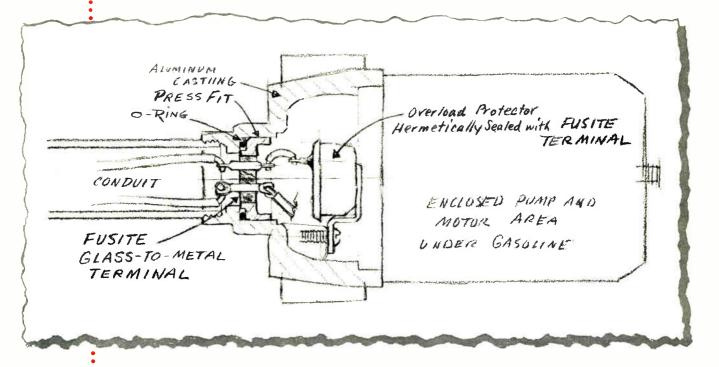
DOW CORNING CORPORATION . MIDLAND, MICHIGAN



# An Engineer "Doodled" and Solved an Explosive Problem with

#### **FUSITE TERMINALS**

The problem was literally explosive. It was a pump and motor to operate safely submerged in gasoline. The electrical connections had to be made through a vapor-proof seal. Two simple and inexpensive Fusite glass-to-metal terminals did the job like this "doodle" shows.



This can't be called a "typical" Fusite case history. In our long list of successful new applications, we have helped engineer, there are none we could call "typical".

So just keep Fusite Terminals in your

"noodle" the next time you "doodle" and pass your problems on to us.

We make hundreds of stock terminals of both multiple bead and solid glass types. We're prepared to design and make special terminals to your needs.



Write today for catalog — Dep't. U-3

# FUSITE CORPORATION

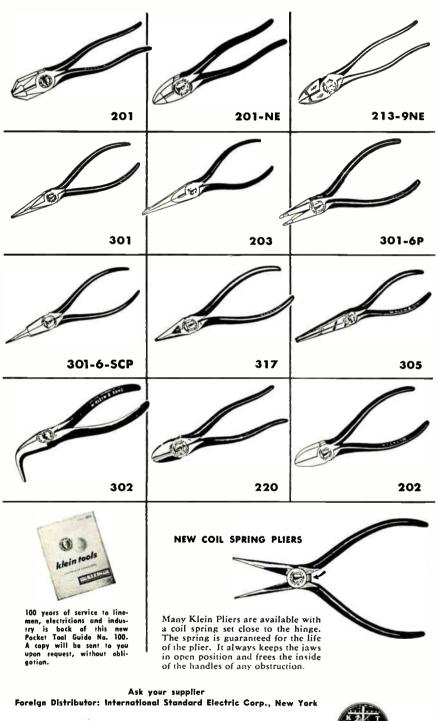
6026 FERNVIEW AVE., CINCINNATI 13, OHIO

# KLEINS

#### For Every Electrical Need

By using the plier exactly suited to the job, work improves and time is saved. There is a style and size of Klein Plier made to meet every need of linemen, electricians, good workmen everywhere.

The name Klein has stood for the finest pliers for a century... that's why Klein is the standard of comparison by which other pliers are judged. Be sure your order for pliers specifies Kleins.





## News of Reps

(Continued from page 80)

Neely Enterprises, 3939 Lankershim Blvd., North Hollywood, Calif. electronic manufacturers reps has announced the opening of their eighth office located in Tuscon, Arizona.

R. W. Farris Co., Inc. has been named manufacturers reps for Filtors, Inc. They are located at 406 West 34th St., Kansas City 11, Mo. and will cover Missouri, Kansas, Iowa and Nebraska.

Land-C-Air Sales Co. are now reps in the New York, Northern New Jersey area for Dynamics Research Associates.

Instruments for Measurement, Glendale, California are reps for Autron Engineering, Inc. in Southern California.

Gregg and Spohn, Cincinnati, Ohio, J. F. Wulfetange, Jr., Dewitt, New York and the Robert F. Lamb Co., Buffalo, New York have been named reps for "Control" a Div. of Magnetics, Incorporated.

Cartwright and Bean, Memphis, Tenn. are now sales representatives for General Transistor's germanium transistors, in Alabama, Georgia, Tennessee, North Carolina, South Carolina and part of Virginia.

Gene French Co., Albuquerque, New Mexico will now serve as reps in New Mexico, Arizona, Colorado and Utah for the Narda Corp.

Jim Ferris has been appointed a District Manager for the Morris F. Taylor Co. of Silver Springs, Md.

Sherherne and Associates, 3040 Overland Ave., Los Angeles 34, Calif. are now representing Cardinal Instrumentation Corp.

C. W. Reed has been formed and offer sales and service representation on the West Coast for various technical equipment manufacturers.

Bill Kolans and Co. of San Francisco and H. H. Seay Co. of Columbus, Ohio have been named reps for the Fairchild Recording Co.

Murphy and Cota, 2110 Peach Tree Rd., N.W. Atlanta, Ga. have been named reps for the WYCO Products Co. in the southeastern part of the United States.

O. F. Masin Co., Pelham, N. Y. has been selected to represent, in the Metropolitan New York area, the San Fernando Electric Manufacturing Co.

Bob Himmel and Ken Davis, reps for Texas Instruments, Inc., have moved into new offices at Room 701, Wilson Bldg., Broadway and Cooper Sts., Camden 2, N. J.

#### EDISON RELAYS FOR AIRBORNE ΔΝΟ OTHER ELECTRONIC CONTROL EQUIPME

One of the oldest names in relays continues to improve the state of the art. For your specific design problems there is an Edison relay you can rely on for maximum performance and durability. The millions of Edison relays in use today are your assurance

#### SENSITIVE MAGNETIC RELAY



Polarized operating characteristic of this magnetic d-c Relay makes it ideal for use as a null detector in ordinary bridge circuits. It can operate directly from a thermocouple or photocell. Both coils brought out to separate pins in base make it easy to calibrate and overhaul and versatile to apply. Hundreds of thousands of these relays are now in use in airborne control equipment.

#### **SPECIFICATIONS**

SPECIFICATIONS

Contacts: SPST or SPDT normally open or closed. Rated for ½ ampere at 28 volts d-c.

Hermetically sealed: Model 220
Gasket sealed: Model 210
Vibration and shock resistant: relay unenergized will withstand shock of 50g's in all planes without damage or change in calibration

Closing current: contacts close on input currents from 30 microamperes d-c to 12.5 milliamperes d-c. Lower closing currents available in special circumstances.

currents available in special circum-stances.

Coils: Formvar-coated copper. Resistances from 0.5 ohm to 23,600 ohms. Normal closing power may be increased 10,000 times without adverse effects. Weight: 15 lb. max. Seated height: 2½° max. Base: plag-in, printed circuit or solder hook

For more information, write for Bulletin #3037

#### **NEW EDISON MINIATURE** TIME DELAY RELAY MODEL #250



Specially designed for missile and jet aircraft applications, this vibration resistant unit incorporates the following design features:

- 1) virtual elimination of contact chatter up to 1500 cps at 10 g's.
- 2) no resonance to 500 cps.
- 3) ambient compensation between -65° C and +85°C . . . operation at higher temperatures when necessary.
- 4) contacts rated for 1 ampere at 27.5 V'DC or 3 amperes at 115 volts AC.
- 5) extra-rigid construction for exceptionally high contact pressure.
- 6) can be mounted in any position without affecting operating characteristics. 7-pin plug-in or solder hook base.
- 7) hermetically sealed.

For more information, write for Bulletin #250.

#### STANDARD OCTAL TIME DELAY RELAY MODEL #501



10 years of Edison research and engineering have produced a widely-accepted line of hermetically sealed Thermal Relays . . . more than one-half million have already been manufactured for use in cathode protection circuits, autopilots, gyro stabilizers and other electronic equipment.

#### SPECIFICATIONS

Time delays: 2 seconds to 300 seconds Heater voltages: 6.3, 26.5, and 117 (inter-mediate voltages available in special circumstances)

Heater input: 5 Watts nominal

(continuous excitation)
Contacts: SPST normally open or closed.
Rated for 6 amperes max. at 450 volts a-c or d-c.

Ambient: compensated for -60° C to +85° C
Shock: resists impact of 50g's

Vibration: resists 1/16" overall amplitude at 55 cps

Tolerances: heater voltage: positive contact operation with variation of ±10%.
Operating time at 25° C: ±15% max.
Weight: 1¼ to 2¼ oz.

Seated height: 31/4" Diameter: 1.275" max. Base: intermediate octal

For more information, write for Bulletin #3007.



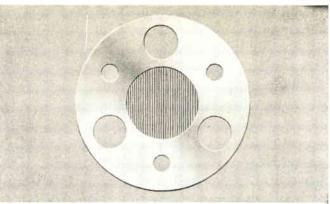
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INDUSTRIES

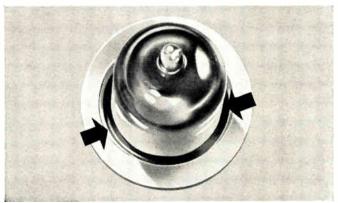
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	TYPE	DESCRIPTION			
;	2C36	pulse-modulated oscillator for concentric-line- cavity operation. Maximum operating frequency— 5000 mc.			
•	6503	CW oscillator for frequencies up to 3300 mc—Ruggedized anode design for shock and vibration.			
:	2C37	CW oscillator to 3300 mc, amplifier and frequency multiplier.			
•	6481	general-purpose medium mu triode—CW oscillator at frequencies up to 3300 mc.			
	5768	high mu double-ended type designed for grounded grid CW amplifier. Used with tuned or untuned input—tuned coaxial line output.			
•	6BA4	double-ended UHF amplifier, suitable for TV UHF frequencies.			
	5765	CW oscillator with internal feedback. Broad frequency range up to 2900 mc.			
	5764	pulse-modulated oscillator at frequencies up to 3300 mc.			

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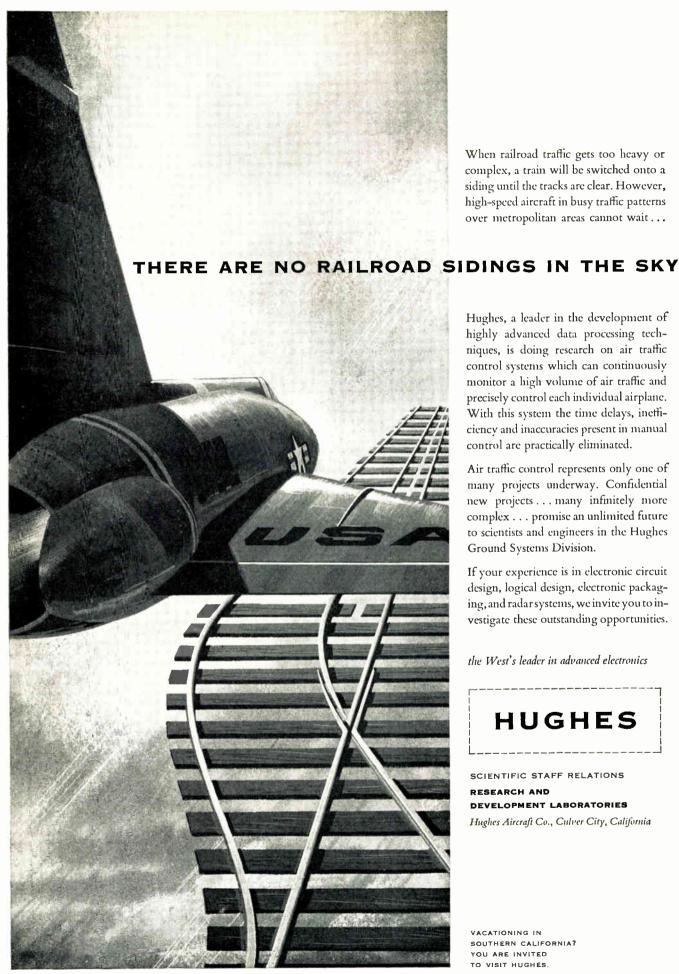
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Dr. Leslie W. Ball

Dr. Ball is a leading scientist devoted to reliability efforts and programs, and is a prominent consultant to top management in aircraft and missile industries. His independent evaluation of the "HELPR" Program follows:

In 1940 Winston Churchill stirred the conscience of American industry by his confident plea . . . "Give us the tools and we will finish the job." Our industry did respond magnificently and gave the Allied Armed Forces the tools with which the immediate job of destroying the dictatorships was finished.

But we know only too well that neither in peaceful competition nor in military defence can industry rest upon past achievements. New tasks of staggering magnitude always will arise to challenge the imagination and guts of our industrial management and to challenge the thinking and action abilities of our design, production, test, and quality control engineers.

Today, a new challenge to managers and engineers is stark in its clarity, and voracious in its demand for action. Clearly, the marriage between the science of electronics and the science of systems engineering has been, and will continue to be prolific in the procreation of complex equipments that increase the productivity of peace-time industry and radically improve the potential effectiveness of our military defence. It is evident further that many top managements have seized upon these opportunities.

In those industries that are adopting automation, and throughout our defence program, decisions have been taken to entrust the future to the abilities of complex requirements. In the case of some equipments it is merely the financial future of a single company that has been committed. In the case of military equip-

The State of the Art:

# NEW TOOLS ARE HERE TO UPGRADE RELIABILITY NOW!

#### Dr. Leslie W. Ball

ment, our future in the world has been committed to the belief that complex weapon systems based on electronic equipment can be made to perform adequately in all respects.

#### DRAMATIC PERFORMANCE

In the first flush of excitement over the potentialities of radically new equipments, the abilities and energies of both managers and engineers usually have been concentrated on obtaining dramatic performance. In multitudes of offices and laboratories throughout the nation, equipment performance abilities worked out on the drawing board or predicted by electronic computers have been received with enthusiasm and adopted as target. As time has brought the conversion of calculations and predictions into actual hardware, it has become painfully evident that the ominous forebodings of a small band of pioneers, now known as "Reliability Engineers," were not without substance.

Much has been written about the fundamental relationships between unreliability and complexity in electronic equipments and about the incompatibility of extracting the last ounce of high performance out of equipments that must be reliable under conditions of high environmental stress and limited maintenance skill. So, today, the managers, upon whose shoulders rests the heavy responsibility for having taken decisions to commit their companies or their defence programs to complex high performance systems, must undertake an agonizing reappraisal of their electronic equipments within these systems.

#### **BLUNT QUESTION**

The blunt question that faces them is, "Must we retreat to simpler, lower performance devices, or is there an immediate line of reliability upgrading action whose cost is within reason and whose effectiveness is beyond question?"

The answer to this vital question is not to be found in academic discussions of the abstractions of reliability nor in the ivory towers of higher mathematics. It is to be found in the testing and analytical laboratories where countless analyses have been made of equipments that have failed in service or in which failure has been produced by simulation in the laboratory of service stresses.

The answer to the question "Must we retreat?" is a confident "No, we need not retreat. There is a path to electronic equipment reliability whose cost is within reason and whose effectiveness can be assured."

To define the path to reliability specifically and clearly, we must first express the underlying causes of equipment unreliability in engineering management terms.

Both technological advances and management action have provided the systems engineers with the tools that they need to work out complex system performance, and to generate sound preliminary designs. Unfortunately, in the electronic industry the detail designer, the production engineer, the test engineer, and the quality control engineer have not been provided with all the tools that they need to follow through from a preliminary system

## State of the Art: NEW TOOLS ARE

design to delivery of a completely reliable finished product.

A FUNDAMENTAL CAUSE OF ELECTRONIC UNRELIABILITY IN TODAY'S ELECTRONIC EQUIPMENT IS THAT DESIGNERS ARE REQUIRED TO DESIGN CIRCUITS, QUALITY CONTROL ENGINEERS ARE REQUIRED TO CONTROL CONFORMANCE, AND TEST ENGINEERS ARE REQUIRED TO PLAN EVALUATION PROGRAMS WITHOUT MUCH OF THE BASIC HANDBOOK TYPE OF DATA ON WHICH THE RELIABILITY OF ALL OTHER TYPES OF ENGINEERING EQUIPMENT DEPENDS.

To illustrate this deficiency, suppose that the management of an aircraft company had made excellent provision to obtain systems engineering and a preliminary design for a new super performance complex rocket-powered plane and then assigned the task of detail design, quality control and test planning to their staff. But, with the provision that they would be denied anything approaching complete knowledge of the strength, endurance and failure characteristics of the materials and components of which the system was to be built.

The opinion of their customer and of other managers would be that this was a preposterous way to manage an engineering project, and unreliability in the product would be a foregone conclusion. And yet, inadequacy in the organized knowledge of strength, endurance and failure of component parts is characteristic of almost all military and industrial electronic equipment projects.

Management thinking about the provisions that they must make for providing their staffs with adequate knowledge of electronic component parts can be helped greatly by the following definition: "Any equipment component or part is inherently unreliable until every mode of failure is known, understood, measured and controlled."\*

Throughout the mechanical engineering industries the truth and significance of this definition is accepted as self evident. Moreover, large quantities of organized knowledge on understanding, measurement and control of every mode of failure of mechanical parts are contained in engineering handbooks. For example, in the case of reciprocating machinery unreliability caused by the phenomena of fatigue is no longer tolerated because an understanding of the design and manufacturing factors that can per-

mit fatigue to occur, together with tables and curves showing the relationship between stress level and number of cycles to failure and established quality control procedures, are all available in the form of handbook data.

#### URGENT NEED

The problem of the component part failures that cause unreliability in electronic equipment is analogous to fatigue failure in metal parts, but there are at least two important differences, each of which makes the need for handbook data more urgent.

First, the stresses imposed upon the part are more diverse. That is, the effects of placing an electronic component part in a complex circuit require rather more analysis and more types of data than required for the determination of the stresses on a part in a mechanical structure.

Second, the number of modes of failure resulting from variety in the materials and methods of construction of electronic parts are much greater than for purely structural parts that can fail only by such well known phenomena as tensile fracture.

Third, whereas mechanical parts are characterized by long service and laboratory testing histories that have resulted in well organized and widely published handbook data, electronic parts have either not existed long enough or have not been studied intensively enough for such handbook data to be available.

The contrast between disciplines in electronic and mechanical engineering is obvious. In the electronic industry, management and engineers must undertake immediate and imaginative action to generate and distribute handbook type data. This would embrace the understanding, measurement and control of all types of electronic component parts whose failure contributes to unreliability.

We may assume that this statement is beyond question, and the real issue for management and engineers to decide is "WHAT IS THE FASTEST, MOST ECONOMICAL AND MOST EFFECTIVE METHOD TO GENERATE HANDBOOK DATA?" The possibility of each company being dependent only on its own component part testing programs must be ruled out, because the cost is prohibitive and the time taken to get the job done on limited testing facilities would be hopelessly excessive.

#### IMPORTANT PECULIARITY

In this regard a very important peculiarity of electronic component parts must be recognized. This peculiarity may be called "the existence of minority groups

in the manufactured population." For example, consider a population of one thousand capacitors produced by a particular manufacturer. From the point of view of performance, all these capacitors will belong to a single homogeneous population, but, from the point of view of reliability, the population is by no means homogeneous.

If the thousand capacitors were subjected to circuit stresses and to external environmental stresses, some of them would become "early failures" and others would become "random failures." Suppose that out of the thousand, ten are potentially early failures and another forty are potentially random failures. If a test sample of, say, six capacitors were chosen from among the nine hundred and fifty that will fail by wear out, the results of this test program would be completely useless and dangerously misleading because they would tell nothing of the unreliability that would be caused by the ten carly and the forty random failures.

It follows that it is vitally important to subject the whole population of one thousand capacitors to an ambitious test program that includes statistical design of experiments, detailed analysis of failures, and statistical interpretation of results.

Even in equipments where a high failure rate of, say, one part in a thousand can be tolerated, the test sample size should consist of several hundred parts. In equipments where failure rates of only one in a hundred thousand can be tolerated, the sample size and consequently, the cost of the test program must be increased correspondingly.

IT IS THEREFORE APPARENT THAT EVEN LARGE ELECTRONIC EQUIPMENT COMPANIES CANNOT AFFORD TO UNDERTAKE TEST PROGRAMS TO GENERATE ALL THE KNOWLEDGE OF ELECTRONIC COMPONENT PARTS THAT THEY REQUIRE, AND THAT THEY MUST SUPPLEMENT THEIR OWN WORK BY PARTICIPATION IN A PROGRAM SUBSCRIBED TO BY A LARGE GROUP OF COMPANIES

A second cost aspect is that the recording of test data by technicians reading indicating instruments is incompatible with the enormous number of readings that must be made to generate the amount and accuracy of data required for handbook purposes. Consequently, the principle of automation must be applied to the recording of data during component part testing programs.

Both the above cost considerations lead to the conclusion that electronic equipment manufacturers can reduce the cost of reliability programs radically by sub-

<sup>\*&#</sup>x27;'Management Use of Laboratory Testing to Achieve Reliability.'' A Paper presented to the University of California at Los Angeles Engineering Management Symposium in January 1955 by Leslie W. Ball,

### HERE TO UPGRADE RELIABILITY NOW!

scription to testing programs performed in a competent laboratory, where sample sizes of thousands can be handled and where data can be recorded automatically.

#### STEADY FLOW

The general relationship between such a laboratory and the subscriber to such a program must go far beyond the mere provision of testing facilities and automation instrumentation. The laboratory must provide the subscriber with a steady flow of organized knowledge that makes it possible for the subscriber to diffuse throughout his whole organization "knowledge, understanding, measurement and control" of all the modes of failure of the electronic component parts used in the company's products.

While the above statement summarises the service that must be rendered and leaves no doubt that the benefits to be gained by subscription to this laboratory program will far exceed the cost to the subscriber, and while the brochure of-fered by the "HELPR" program provides detailed information to the individual engineer, it is to be expected that the subscriber's management will want a more specific summary of what will come out of the testing program, and of the identity of the departments within his organization that will use the output, and of the ways in which they will use it.

On the basis of work already done in similar, but much more restricted testing programs, the following five specific types of output and six specific types of application by subscriber's personnel may be identified.

#### FAILURE RATE CURVE-**CIRCUIT STRESS**

For each type of component part it is generally recognised that some particular circuit stress is of primary importance in regard to failure rate and reliability. For example, in the case of capacitors, the voltage across the capacitor is accepted as the primary circuit stress. Test programs for each type of part will result in a family of curves in which failure rate is the ordinate, time is the abscissa, and one curve is plotted for each value of the primary circuit stress.

In general, the curves will have a characteristic shape which in many cases will be the familiar three part curve showing early, random and wearout failures. The corresponding time intervals may be called the "infant mortality screening period," "service period" and "over-age period." Quite apart from numerical values of the failure rates, knowledge of the shape of these curves and of the duration of the infant mortality screening, service and over-age periods are vital to intelligent decisions on quality control and preventative maintenance requirements.

#### RELIABILITY INDICES

For those component parts that show a "random" failure rate in the service period, a single value for failure rate index may be established. In other cases an average value in the service range may be selected as characteristic of the part. All these values could be prepared in summary tabulated form suitable for use as reliability indices during the precalculation of the reliability to be expected from any new type of electronic equipment.

#### FAILURE RATE CURVES -**ENVIRONMENTAL STRESS**

It is well known that the failure rate produced by a primary circuit stress can be greatly modified by the environment in which the part operates. For example, in the case of capacitors the ambient temperature will have a major effect upon the failure rates produced at any given

voltage.

It is recognized further that, when environmental stress becomes severe, entirely new modes of failure not directly related to the circuit stress are produced and that these new modes of failure will have their own characteristic failure rates. The test program should produce curves showing both the modification of circuit stress failure rates with environments, such as temperature of vibration intensity, and other curves showing failure rates produced by the environment in the absence of circuit stress.

#### MODE OF FAILURE ANALYSES

If the laboratory's service to the subscriber finished with the production and mathematical analysis of failures, the most constructive and universally applicable reliability upgrading information would be lost. The laboratory service should include detailed disassembly and analysis of the physical, chemical and mechanical modes of failure of each type of component part. The results and interpretation of these analyses will be available to the subscriber and to the manufacturer of the part.

#### CORRELATION OF FAILURE RATES WITH DESK ANALYSES

Obviously, test programs must be performed upon component parts bought from particular vendors, and, consequently, test results presented under the above four categories would be specific to each vendor. However, it would be chronically wasteful to limit the output of the test program simply to the products of the vendor supplying test items.

By careful analysis of the design characteristics of the parts, combined with knowledge of the manufacturing processes and quality controls used by the vendor, it is possible to establish extremely valuable correlations between failure rates and design and manufacturing factors. These correlations are universally applicable to the products of all vendors. The laboratory should seek to establish such correlations and will present the results in the form of technical reports to the subscribers.

#### USE OF TEST RESULTS

#### BY SUBSCRIBER'S PURCHASING DEPARTMENT

The results of the test programs will be of direct benefit to the purchasing departments in the selection of component part vendors. Even when a particular vendor's parts have not been included in the program, the subscriber's purchasing department would be able to make use of the test results in evaluating the materials and process controls used by the supplier.

#### BY SUBSCRIBER'S PRELIMINARY DESIGN DEPARTMENT

Whenever a new system or equipment is offered in a preliminary design proposal, it is a good management practice to require a precalculation of the expected reliability of the equipment if it is to be built from state of the art component parts. Although at this time the exact number of parts and the circuit stresses that will be imposed upon them are unknown, certain assumptions can be made based on similarities between previous equipment and proposed equipment. By combining these assumptions with reliability indices for the component parts, a precalculation can be made.

#### BY SUBSCRIBER'S DESIGNERS

During the design phase, decisions must be made on the general degree of part derating and on the amount of money, space and weight that will be allowed for reduction of environmental stresses. The test program would provide specific numerical values to guide both the amount of action needed and to indicate which changes will be most effective.

#### BY SUBSCRIBER'S PARTS APPLICATION ENGINEERS

It is well known that the failure rate for a given part depends greatly on the circuit stresses imposed upon it and that, in some cases, circuit stresses that are of little importance to the performance of the equipment are of major importance to its reliability. The test program should provide specific data for identifying the nature and magnitude of circuit stresses that must be considered by the part application engineer in determining the suitability of a particular part for a particular application.

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#### BY SUBSCRIBER'S TEST ENGINEERS

Each electronic equipment manufacturer must make use of a great deal of testing in his own plant for both design and quality control purposes. For example, in the case of custom parts, such as special potentiometers, the subscriber must write his own specification and specify his own test methods. The results of the "HELPR" laboratory program would be valuable in indicating which tests are likely to be most effective for a particular type of component, and to give some significance to them when the size of the test sample has to be very small.

### BY SUBSCRIBER'S QUALITY CONTROL ENGINEERS

It is generally true that the reliability of electronic equipment can be greatly improved by much more widespread use of non-destructive testing methods on the manufacturer's receiving inspection line and by cautious use of what is now called production environmental testing. The "HELPR" laboratory program would pro-

vide clear indications of which types of non-destructive testing can be most effective and information that should be sought by non-destructive methods.

In the case of production environmental testing, if this is done without the guidance of comprehensive knowledge of the shape of the failure rate curves and the duration of the infant mortality period, there is a very real danger that the environments will increase rather than decrease the unreliability of the equipment. However, with the type of information that the central laboratory program would provide, major improvements in reliability from carefully selected and controlled production environmental tests can be confidently expected.

The net result of all the above outputs from a central laboratory program and the application of these results by the subscribers could be momentous. Whereas, without a major program for generating handbook data on component parts, the electronic industry may have to retreat from the degree of performance and sophistication in designs now going into

production. With the proposed program, the horizons for the electronic industry become unlimited.

Certainly in the case of industrial automation, the difference between a record of unreliability and a record of reliability will not only be a major factor in the success or failure of individual companies, but it will be the difference between a vast new surge of growth for the electronic industry as a whole, and a rapid saturation and ensuing stagnation if the market is limited to only those applications that can tolerate unreliability.

In summary, the new branch of the engineering profession that we call reliability engineers have done an outstanding job in recognising the nature of the problem, in analyzing its causes, and in delineating the path that must be taken to overcome the problem.

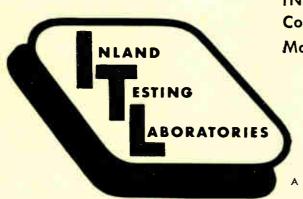
It is now up to the managers and the responsible engineers throughout the electronic industry to decide whether the American Electronic Industry will advance rapidly and lead the world in producing successful complex equipment, or whether we will hesitate and fall upon the hurdle of unreliability.

## The "HELPR" PROGRAM

WIRE OR WRITE TODAY for the 52-page book, "The Handbook of Electronic Parts Reliability Program"—A Detailed, Systematic Approach. There is no obligation, just ask for the "HELPR" Book. Address:

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# ELECTRONIC INDUSTRIES

#### & TELE-TECH

ROBERT E. McKENNA, Publisher

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Computer
"Bread-boards"

Laboratory "bread-boards" date back to the days of the one-tube radio receiver. They are in use today in countless electronic laboratories to test and prove circuit operating characteristics which cannot be obtained in any other manner. Now, however, Bell Telephone Laboratories tell us of a short-cut.

In their important research in compressing TV and speech signals, so that more programs can be transmitted over communication circuits, a vast number of circuits and coding combinations had to be examined in order to select the most efficient. Ordinarily this would have meant building a large number of circuit "bread-boards." Instead of setting up this costly and time-consuming mass of experimental equipment, BTL went to an electronic computer for aid. Various experimental systems were reduced to the IBM-type of punched card and were evaluated by actually examining electrically the synthesized output of the IBM computer when different variables were introduced.

To illustrate this laboratory short-cut, Dr. Axel Jensen, of BTL, speaking before the NARTB Engineering Conference in Chicago on coding and decoding speech messages, made an interesting demonstration. He let his listeners hear simple sentences which had been recorded on magnetic tape. These were then coded into IBM digital tape and then transformed by an IBM 620 into cards. These cards, in turn, were fed to an IBM 704, into tape, into a translator and finally placed on a magnetic tape which, when played, could be compared with the original speech. This comparison was made by Dr. Jensen's Chicago audience.

Consider this amazing string of conversions—starting with ordinary speech, changing it into an 18-in. high stack of punched cards, then reconstructing it to get reproduced speech of good quality! It's an important step ahead that will open new avenues to electronic researchers!

Next month we expect the Bureau of the Budget to issue a new Standard Industrial Classification manual. This will be the first complete revision of the manual since it was issued in November 1946. The SIC manual represents an effort on the part of government to catalog all American manufacturing industry on the basis of four digit numerical codes.

Unfortunately for the Electronic Industries this new SIC listing will not be particularly helpful although it may be somewhat better than the 1946 listings. The committees involved have clung to an outmoded view that electronic equipment is essentially electrical equipment. They have thus sought to combine two immense industries under the single code group number 36. This results in a great deal of ambiguity in using SIC numbers because it turns out that many industries can be logically considered as falling into two or more classifications.

These SIC codes are particularly important because they have a major bearing on government statistics, which in turn, are frequently referred to as an aid in market research for industry. They are also a factor in budget considerations for military expenditures and other government activities.

Our interest in SIC coding was aroused when we found reference to it in the electronic publishing field. We believe the SIC coding system to be a good idea, but to be effective it must also portray the true conditions of the industry. This it did not do in the 1946 listings and the indications are that in 1957 it will again fall far short of the mark.

We believe all manufacturers would do well to make SIC an important part of their business and take immediate steps organizing a formulating group to bring the SIC listings into a truer industry focus.

S.I.C. Now?

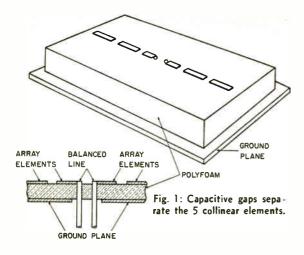




Fig. 2: Voltage distribution for the collinear array shown in Fig. 1.

Manufacturing problems of tolerance and complex operating problems of energizing numerous radiating elements become materially reduced by using etching techniques. The process will make possible flush-mounted microwave aircraft antennas.

# Etching Simplifies Antenna Design

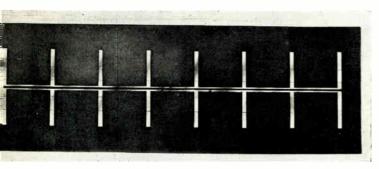


Fig. 3: A forty-element capacitively coupled collinear stripline.

By JAMES A. McDONOUGH,
ROBERT G. MALECK,
and JOHN KOWALSKY

J. A. McDonough



J. Kowalsky







THE use of etching techniques has made possible the construction of antennas at microwave frequencies that were not previously practical to fabricate because of the complexity of energizing a large number of radiating elements and the problem of maintaining the required tolerances.

Recent work in printed-antennas has been with endfire arrays and a new type of broadside array that appears practical for use at microwave frequencies.

The broadside array recently developed is the capacitively coupled collinear array. This consists of a series of collinear electrical half-wave elements, separated by capacitive gaps (Fig. 1). This type of radiating structure has the strip elements bonded to, or printed on, a dielectric sheet that is supported by a low-dielectric-constant foam over a ground plane.

The strip elements are energized by a center feed consisting of a parallel 2-wire balanced transmission line and a balanced-to-unbalanced transformer.

By adjusting the coupling (spacing) between the elements and element length, a phase reversal in the voltage distribution along the antenna at each gap is obtained (Fig. 2). A complete phase reversal at each gap makes each element act as a half-wave radiator with a current distribution in phase with the other elements. The array of elements would then have a broadside radiation pattern.

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#### Pattern Improvement

To improve patterns, illumination of the elements along the array was tapered. This was done by probing with a current loop and adjusting the gap size to provide the desired coupling.

Fig. 5 shows the relative magnitude of the current distribution at 2900 MC and the E-plane radiation pattern. The peaks at the gaps indicate a phase reversal. When the array was adjusted so a peak did not occur across a gap, serious radiation-pattern deterioration resulted.

To construct a large printed broadside array, a 40element capacitively coupled array was designed and fabricated at S-band (Fig. 3). The array was 2114 in. by 45% in. It was printed on epoxy bonded Fiberglas FF-91, which was 1/16 in. thick.

Each column of collinear elements was fed in phase from the parallel 2-wire transmission line. The array was spaced 34 in. over a ground plane, and radiation patterns were taken.

The results are summarized in Fig. 4.

Note that the physical length of each element is close to 1/4 wavelength, although electrically each is a half-wavelength.

#### Rhombic Antennas

The investigation of end-fire arrays started with a design for a printed rhombic antenna. In a typical configuration (Fig. 6), the antenna was printed on a sheet of teflon glass and mounted above a ground plane.

The rhombic was energized at the left end with a parallel 2-wire feed. A resistance-card load was placed at the right end. Each leg was approx. 7 in. long. It was tested at S-band. The standard design formulas were found to be directly applicable to their printed counterparts. The beamwidths, beam pointing, and side lobes also were essentially the same as those obtained from regular rhombic antennas.

The only compensation necessary was to change the element length to correct for the slower propagation velocity.

Other configurations consisted of rhombic antennas

Fig. 4: Radiation characteristics of capacitively coupled collinear array.

FREQUENCY (MC)	HALF-POWER BEAMWIDTH (DEGREES)		SIDE -LOBE LEVEL (DB)	
2500 2550 2600 2650 2700	50 - 48 - 46	13 13 13 13 12	-15 * -15 * -15 *	-13.0 -19.0 -19.0 -18.7 -14.5
	E- PLANE	H- PLANE	E- PLANE	H- PLANE

\* SMALLER THAN

DIMENSIONS OF ARRAY :

ELEMENT LENGTH: 0.906 INCH GAP SPACING: 0.016 INCH ELEMENT WIDTH: 0.228 INCH

SPACING ABOVE GROUND PLANE 3/4 INCH

SPACING BETWEEN COLUMNS:

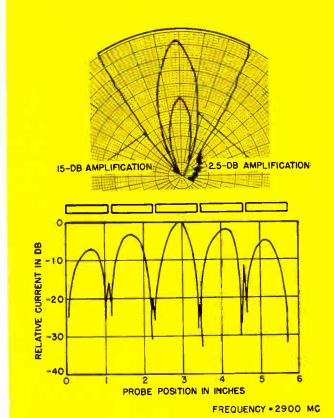


Fig. 5 (above): E-plane radiation pattern & current distribution for Fig. 1.

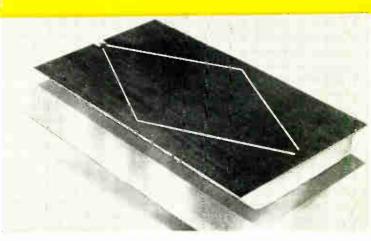


Fig. 6 (above): Rhombic, printed on teflon, is used for end-fire arrays.

arrayed end to end. Instead of a load, a second rhombic was connected, and the load placed at the end of the second.

An array of 3 end to end antennas was also tried. The results are summarized in Fig. 10. The data indicate that this type of arraying should not include more than 2 antennas since the azimuth plane-halfpower beamwidth was essentially the same for the 2-element and 3-element arrays.

Another configuration consisted of 2 coplanar rhombics (Fig. 8). The outer antenna was energized, but the inner was a parasitic element having an adjustable length of shorted 2-wire transmission line.

If the current distribution along the rhombic elements could be controlled or modified, improved characteristics might be obtained. By moving the adjustable short, some modification was obtained.

The elevation pointing of the beam was changed

#### Antenna Design (Continued)

from 23° to 26°, and the elevation-plane half power beamwidth was changed from 24° to 22°.

The side-lobe level could be varied about 2 db. By printing a second parasitic rhombic outside the energized antenna, or by energizing more than one at a time, a greater variation may be obtained.

#### Yagi Antennas

Another end-fire array was the printed Yagi. Practically any existing Yagi design can be scaled to the proper frequency. By shortening the elements and spacings by a factor corresponding to the slower velocity of propagation, results are obtained that are essentially the same as those obtained from the original design.

The velocity factor for Teflon glass GB-112T laminate (0.020 in. thick) is about 0.9 at S-band. The feeding dipole element or even a folded dipole can be printed on the same dielectric sheet that contains the parasitic elements.

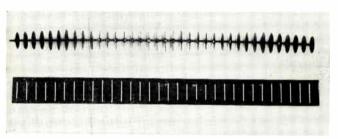


Fig. 7: Cigar and ladder antennas, 8 wavelengths at S-band design.

#### Ladder Antenna

The ladder antenna is similar in appearance to an extended Yagi. The design has been developed from the theory proposed by Simon and Weill: by a periodic variation or modulation of the characteristics of a surface wave-transmission line, it is possible to construct end-fire antennas that are many wavelengths long and that have higher gain than the usual upper limit of about 16 db obtained with conventional Yagi, rhombic, and dielectric-rod antennas.

Surface-wave antennas consist essentially of a transmission line with a phase velocity less than the velocity of light. If the characteristics of this line are varied, there is a transfer of energy from the surface-wave mode to the radiation mode.

In the Simon-Weill antenna or "cigar antenna," a metal rod loaded with metal disks is used as the radiating structure (Fig. 7, top). The diameters of the disks were modulated as a function of position along the rod, thus modulating the phase velocity along the array.

The printed counterpart of this antenna consists of a series of metal strips etched on a dielectric sheet (Fig. 7, bottom).

In general, the elements have a length between 0.3 and 0.4 wavelength, and the spacings are about 0.2 to 0.3 wavelength. Spacings as close as 0.05 wavelength have been used for the first few elements, and lengths as short as 0.15 wavelength on end tapers with good results.

These arrays were energized with a dipole-and-re-

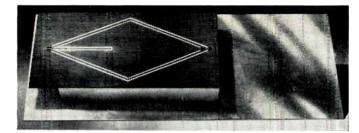


Fig. 8: Coplanar rhombics—outer is energized, inner is parasitic.

flector assembly and were found to be usable over a band of at least 20%. The performance of a 16-wavelength ladder antenna consisting of 88 elements is summarized in Fig. 9.

This investigation indicates the usefulness of etching techniques in adapting lower-frequency antennas for use in the microwave region and in constructing new types of arrays and configurations that were not previously practical to fabricate.

FREQUENCY (MC)	HALF-POWER BEAMWIDTH (DEGREES)		SIDE-LOBE LEVEL (DB)		IN PUT SWR
2000	23	22	8	9	2.3
2100	22	21	10	8	3.0
2200	18	22	10.5	9	3.9
2300	19	22	11.5	12	2.2
2400	8 1	20	14	17	1.7
2500	19	17	15.5	19	1.8
2600	18	18	16	19	2.3
2700	17	21	21	20	2.3
2800	18	18	22.5	19	1.8
2900	18	22	19	15	2.2
2950	19	24	15	6.5	2.6
	E-	H-	E-	н-	
	PLANE	PLANE	PLANE	PLANE	

Fig. 9 (above): Performance of 16-wavelength ladder antenna. Dipole is spaced 1 in. from the first element.

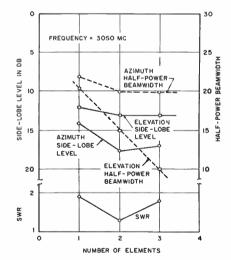


Fig. 10 (left): The performance of 3 end to end rhombics.

Only a small portion of this field has been investigated, but the applicability of these concepts to flush-mounted aircraft antennas and low-cost lightweight arrays indicates that more effort will be directed along these lines.

#### Acknowledgments

The work described in this article has been sponsored by the U. S. Army Signal Corps Laboratories, Ft. Monmouth, N. J.; a special note of thanks is due to Mr. Leonard Hatkin of that organization for his contributions to this study. The contributions of Dr. Eugene Fubini and Mr. Winfield Fromm and the laboratory assistance of Mr. Edward Shields are gratefully acknowledged.

#### References

 E. G. Fubini, J. A. McDonough and R. G. Malech, "Stripline Radiators," 1955 I.R.E. Convention Record, Part I, page 51.

# Fig. 1: PNP schematic-symmetrical current and voltage polarities. POSITIVE COLLECTION POSITIVE EMISSION a.M.I. Fig. 2: Triode Flow Lines (PNP model). NEGATIVE EMISSION a Mclas (1- a)Moles 1 1 (1- andclapeles Fig. 3: Case I Flow Lines. a Meles Fig. 4: Case II Flow Lines. (1- E)Mclcs andcle-ancies Fig. 5: Case III Flow Lines.

# Avalanche Flow Line Analysis

The author extends his "Flow Line Analysis" technique to include avalanche. Here is a significant new analytical tool for the engineer.



By RICHARD B. HURLEY Senior Research Engineer Convair, Pomona, Calif.

A TECHNIQUE of analyzing junction transistors for "large" signals (assuming constant alphas) has been established through the work of Ebers and Moll.¹ A particular method of "visualizing," the Ebers and Moll equations through "flow line analysis" has also been developed.² As originally presented, these equations and concepts, however, do not explicitly incorporate the effects of avalanche multiplication at collecting junctions.

Avalanche

Papers on avalanche multiplication in junction transistors are available in the literature.<sup>3, 4</sup> In these introductory articles, it is shown how the transistor alphas are effectively multiplied by the avalanche effects under high junction voltages. Our purpose here is to indicate how avalanche multiplication can be included, formally, in the equations of Ebers and Moll and, in turn, to show how "flow line" diagrams may be extended in scope to cover avalanche. Avalanche exists in many currently available junction transistors, and in the future, certain transistors designed to emphasize avalanche multiplication may be of commercial importance.<sup>3, 4</sup>

#### Flow Analysis (continued)

Equations

Ebers and Moll's equations, for symmetrically defined voltages and currents (Fig. 1), can be written in two equivalent forms. The "current" forms are:

$$I_{E} = I_{EO} \left( \epsilon^{q^{V_{E}/kT}} - 1 \right) - \alpha_{I} I_{C}, \tag{1}$$

and

$$I_{C} = I_{CO} \left( \epsilon^{q^{V} c^{/kT}} - 1 \right) - \alpha_{N} I_{E}, \tag{2}$$

where the symbols used are conventional. The equivalent "voltage" forms are

$$I_{E} = I_{EB} \left( \epsilon^{q^{V} E^{/kT}} - 1 \right) - \alpha_{I} I_{CB} \left( \epsilon^{q^{V} C^{/kT}} - 1 \right), \quad (3)$$

and

$$I_{C} = I_{C8} \left( \epsilon^{q^{V_{C}/kT}} - 1 \right) - \alpha_{N} I_{E8} \left( \epsilon^{q^{V_{E}/kT}} - 1 \right), \tag{4}$$

where

$$I_{ES} = \frac{I_{EO}}{1 = \alpha_I \alpha_N}$$
, and  $I_{CS} = \frac{I_{CO}}{1 = \alpha_I \alpha_N}$ .

Basically,  $I_{co}$  is measured, approximately, with the emitter terminal open, and  $I_{cs}$  with the emitter terminal shorted to the base. In both cases, a reverse voltage, large enough to yield saturation, but not so large as to cause avalanche, is applied to the collector-base diode.

In general, avalanche multiplication can occur at either or both junctions of a transistor. Thus two avalanche multiplication factors can be defined, patterned after earlier definitions.<sup>3, 4</sup>

$$M_{\rm E} = \frac{1}{1 - \left(\frac{V_{\rm ED}}{V_{\rm EA}}\right)^{\eta'}} \tag{5}$$

and

$$M_{\rm C} = \frac{1}{1 - \left(\frac{V_{\rm CD}}{V_{\rm CL}}\right)^{\eta}},\tag{6}$$

where

M<sub>E</sub> = multiplication factor at emitter junction,

M<sub>C</sub> = multiplication factor at collector junction,

VEA = avalanche breakdown voltage at emitter junction,

V<sub>CA</sub> = avalanche breakdown voltage at collector junction,

 $V_{ED} = V_{ET} - V_{E}$  = total internal emitter depletion layer voltage.

 $V_{CD} = V_{CT} - V_{C} = \text{total internal collector depletion layer}$  voltage,

V<sub>ET</sub> = thermally-produced emitter barrier potential,

V<sub>CT</sub> = thermally-produced collector barrier potential,

and  $\eta=$  a constant of the material, generally dependent on base resistivity and type (polarity) of base doping. ( $\eta \cong 3$  for N-type base and 4.5  $< \eta < 6.5$  for P-type in a germanium unit.) <sup>3,4</sup>

In the expansion of the transistor equations to include avalanche, the alphas will be restricted to constant values. Thus, variations in current gains with current and voltage magnitudes are not to be included in this study except for the one voltage effect of avalanche. Furthermore, the avalanche effect will be left "outside" of the alphas. The more convenient forms for introducing the multiplication factors is the "current" equations, (1) and (2). Here the problem is readily appreciated on an intuitive basis where one simply notes that it is the collected currents that are multiplied. Therefore equations (1) and (2) become—

$$I_{E} = I_{EO} \left( \epsilon^{q^{V_{E}/kT}} - M_{E} \right) - \alpha_{I} M_{E} I_{C}, \tag{7}$$

and

$$I_{C} = I_{CO} \left( \epsilon^{q^{V} C^{/kT}} - M_{C} \right) - \alpha_{N} M_{C} I_{E}, \tag{8}$$

where, like the alphas, I<sub>EO</sub> and I<sub>CO</sub>, are still defined as low-voltage constants, the "M's" being kept "outside".

If the "current" forms are converted to the "voltage" forms, one obtains the expressions—

$$I_{E} = I_{ES} \left( \epsilon^{q^{V}_{E}/kT} - M_{E} \right) - \alpha_{I} M_{E} I_{CS} \left( \epsilon^{q^{V}_{C}/kT} - M_{C} \right),$$
 and

$$I_{C} = I_{CS} \left( \epsilon^{q^{V}_{C}/kT} - M_{C} \right) - \alpha_{N} M_{C} I_{ES} \left( \epsilon^{q^{V}_{E}/kT} - M_{E} \right), \tag{10}$$

where I<sub>ES</sub> and I<sub>CS</sub> are now redefined to non-constant values, for notation convenience.

$$I_{ES} = \frac{I_{EO}}{1 \, - \, \alpha_I M_E \alpha_N M_C} \text{, and } I_{CS} = \frac{I_{CO}}{1 \, - \, \alpha_I M_E \alpha_N M_E} \, .$$

Hence, by the choice of definitions made, a useful relationship is retained. (See Reference 1.)

$$\alpha_{\rm I}I_{\rm CO} = \alpha_{\rm N}I_{\rm EO}, \tag{11}$$

and, therefore,

$$\alpha_{\rm I}I_{\rm CS} = \alpha_{\rm N}I_{\rm ES}. \tag{12}$$

#### Flow lines

Flow line analysis has been developed using the "voltage" form of the basic equations,<sup>2</sup> the philosophy being to treat the first terms as emission terms and the second as collection terms. Therefore, "emission" can be positive, zero, or negative as can be "collection." Thus equations (9) and (10) are thought of in the following manner.

$$I_E = \underbrace{I_{EX}}_{\text{(emitter "emission")}} - \underbrace{\alpha_I M_E I_{CX}}_{\text{(emitter "collection")}}, (9a)$$
 and

$$I_{C} = \overbrace{\text{(collector "emission")}}^{I_{CX}} - \overbrace{\text{(collector "collection")},}^{\alpha_{N}M_{C}I_{EX}}, \tag{10a}$$

and the general flow diagram is as indicated in Fig. 2. Here the previous rules, wherein the sequence of events goes with the arrowheads (current directions) for positive emission and against the arrowheads for negative emission in a PNP transistor, are retained.<sup>2</sup>

#### Breakdown Voltages

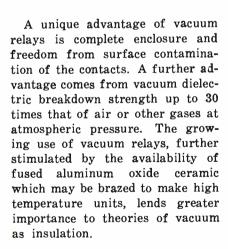
In a transistor, if all "breakdown" voltages are governed by avalanche, there are three types of "breakdown" of especial interest. That is, if other types of "breakdown" such as surface non-linearity and punch-through do not precede all the various avalanche effects, then avalanche types of "breakdown" will occur for emitter open, emitter tied to base, and base open. These three types are not exhaustive, but they are particular ones of general interest.

The flow line diagrams for the three cases of inter-(Continued on page 437)

# Insulate With Vacuum

You can design a vacuum relay to interrupt 600 amperes at 15 kilovolts—with a contact separation of only 5/32 inch—if you give careful consideration of molecular mean free paths, solid vapor pressures, diffusion of gas through solids, and adsorption of gas by solid surfaces.

By H. C. ROSS



#### Electrical Breakdown

Probably the most well known and consistently inconsistent theory of electrical breakdown for pressure variations is Paschen's Law. This shows that sparkover voltage is an inverse exponential function

H. C. ROSS, Chief Engineer Vacuum Switches, Jennings Radio Manufacturing Corp., San Jose, Calif. of the product of pressure and contact spacing.

E sparkover = 
$$360 \left[ \frac{\text{Pd}}{1 + \log_{\bullet} \frac{\text{Pd}}{5}} \right]$$

where P is pressure in mm Hg and d is sparkover distance in mm for uniform potential gradient.

This would indicate that the minimum sparkover potential for any uniform voltage field at any pressure - distance combination is about 360 v. This point holds reasonably well. For many other points, however, calculated values and test measurements disagree.

Figure 5 shows the approximate measured breakdown voltages for 1/32 in. (0.8mm) spacing of 3/8 in. dia. tungsten rod gaps has been prepared showing this minimum point and the actual breakdown voltages measured both for extremely low pressures and for high pressures. The curve departs from



Fig. 1: Relay contacts are easily checked

normal at higher and at extremely low pressures.

#### Mean Free Path

Voltage breakdown in gases is normally dependent on the mean free path of the molecule or electron between differences in potentials. Ideally the longer the mean free path, as the vacuum gets better below 1 mm Hg, the less ionization may occur. For practical purposes there is a satisfactory maximum free path which generally need not be exceeded.

There are several useful formulas for determining mean free path. Two of these are:

$$1. \quad L_m = \frac{1}{\sqrt{2} N d^2}$$

The Clausius Formula

Where N = No. of molecules/cc

d = effective dia. of molecule in centimeters

#### Vacuum Relays

(continued)

2. Also 
$$I_m = 8.59 \frac{n}{P} \sqrt{\frac{T}{M}}$$

P = pressure in mm

T = absolute temperature

M = molecular wt.

n = gas viscosity in Poises and is also temperature dependent

For the electron, the mean free path is about 5.7 times the mean free path of the molecule.

3. Molecular collision frequency

$$W = \frac{V_a}{L}$$

 $V_a = avg.$  velocity of molecule in cm/sec

L = free path in cm

One formula is a check on another. Disagreement may be as much as a factor of 3 in either direction but the resultant is close enough for general use. Various values of interest pertaining to the most prominent molecules are listed in Table 1, which gives values at 25°C.

Some interesting things can be seen. For instance, according to the general average, nitrogen—which is lighter and has a smaller atomic number and, therefore, fewer electrons—seems to have a larger diameter molecule but a lower collision frequency than oxygen. Hydrogen, which is lightest, also shows a discrepancy with

Fig 3: The large and small of vacuum relays



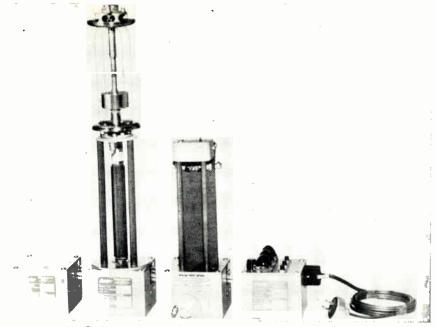


Fig. 2: Complete overload circuit breaker for use at 12 to 15 kv

respect to helium in diameter. Another point of interest is the electron diameter, which according to these values may be approximately  $1 \times 10^{-8}$  cm. However, the electron diameter and weight is very dependent on speed and, therefore, on the accelerating potential between electrodes.

The results of this study show that the mean free path for the average air molecule at 10<sup>-6</sup> mm Hg pressure is over 5000 cm and for the electron it is probably over 30,000 cm. Therefore, for 1/32 in. (0.08 cm) spacing of contacts at this pressure there are going to be very few molecular or electron collisions to cause ionization, even with considerable accelerating potentials.

At  $10^{-6}$  mm and a volume of 10 cc (a cylinder 1 in. long x .8 in. dia.) there are about  $3 \times 10^{11}$ molecules remaining. Now we are down in the region where we can begin to count molecules. 300 billion molecules is really not very many since the average diameter is only  $3 \times 10^{-8}$  cm. If they were to cover a surface one molecular layer deep and side by side they would cover an area of less than 3 millionths of a square cm.

It can be seen that if the surfaces are relatively free of adsorbed gas molecules and can adsorb more, even leaks of the order of 300 billion molecules per hour may still permit holding at 10-6 mm Hg since these surfaces will act as the unit's

own vacuum pump. In fact, much better vacuums are often attained after sealoff by the simple gettering action of clean surfaces in the sealed unit.

#### Vapor Pressures

What is vapor pressure in solids? Solid carbon dioxide is a very familiar material that exhibits the property of evaporating (called sublimation) from solid to vapor without necessarily passing through the melting stage. All solids have this same characteristic. It becomes very prominent, in fact a limiting factor, in attaining proper purity of vacuum units at low pressures.

#### Diffusion

Diffusion will take place through the walls of solid materials where a pressure differential exists. Glass, ceramic, copper and copper alloys, and steel alloys are probably the materials with which we are most concerned for high vacuum enclosures. We know by practical experience that these are usually satisfactory under normal conditions of use.

The formula for the rate of diffusion through some non-metallic materials is given by:

$$p = \frac{KP}{d}$$
 where p is volume of gas diffusing in cc/sq. cm of surface/second

P is pressure difference in cm d is wall thickness in mm

K is permeability constant and is dependent on temperature

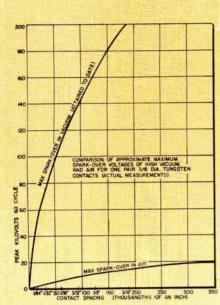


Fig. 4: Sparkover characteristics

Diffusion rate is more customarily stated as micron liters ( $\mu l$ ) per hour per square centimeter per millimeter of thickness.

Some work has been done on the diffusion rate of helium through the typical vacuum tube type of borosilicate glass and through porcelain. At about 300° C approximately 0.1 µl of helium will flow through a surface of borosilicate glass 1 sq cm in area and 1 mm thick. For porcelain, over 1400° C must be attained before the same volume may pass, according to one group of experiments. In comparison, for quartz at 900° C, over 7 µl of helium, 1.3 µl of hydrogen, or 0.2 µl of nitrogen may flow through 1 sq cm 1 mm thick. For quartz at 300° C the rate drops down to possibly 0.4 µl of helium.

In the metals group, diffusion relationships are somewhat different and follow the formula:

$$=\frac{K}{d}\left[\sqrt{P_1}-\sqrt{P_2}\right]$$

(Note: Diffusion appears to be only partially proportional to the square root of the pressure at very low pressures.)

2.75x10-8

4.7x10-8

Air Avg.

Oxygen

Nitrogen

lydrogen

Water Vapor

Helium

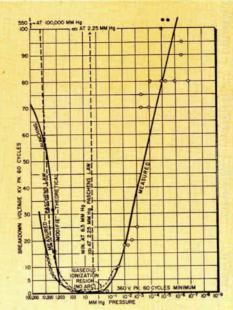


Fig. 5: Sparkover voltage vs air pressure

The rate of diffusion of hydrogen through copper may be 0.1 µl somewhere between 540° C and 730° C and possibly 1.0 µl between 775° C and 1040° C. The rate of diffusion in the iron or iron nickel group shows that 0.1 µl or more of hydrogen may flow between the temperature range of 200° C to 350° C,  $1 \mu l$  for  $360^{\circ}$  C to  $480^{\circ}$  C and  $10 \mu l$ for 610° C to 740° C. For nitrogen diffusion through iron, 0.1 µl may flow at about 820° C; 1 µl may flow at 1120° C. One more interesting diffusion rate is that for molybdenum. Hydrogen will diffuse through molybdenum at a 0.1 µl rate at about 600° C, while nitrogen will diffuse at the same rate at about 1360° C.

In analyzing a typical unit consisting of borosilicate glass and copper the probable average diffusion rate of all air molecules may be no more than 0.1  $\mu$ l at the elevated temperature of 450° C.

This would mean about 10<sup>-7</sup> liter or about 1 x 10<sup>15</sup> molecules per hr per sq cm area per mm thickness. A moderate sized unit may have a volume of 100 CC (.1 liter) and an area of 100 sq cm of average wall (Continued on page 156)

9.3x10-3

3.4x10-3

9300

3400

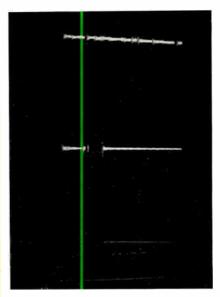


Fig. 6: The radial diffusion effect

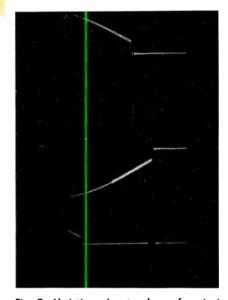


Fig. 7: Variations due to phase of contact opening

Fig. 8: I'deal interruption of 50 amp., 6000

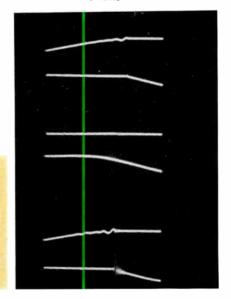


Table 1 Molecule Density L<sub>m</sub> cm Collision L<sub>m</sub> cm L<sub>m</sub> cm 10-6 mm Hg 760 mm Hg dia. cm 1 mm Hg gm/cc Frequency 3.7x10-8 6.7x10-6 1.2x10-3 5.1x10-3 7x109 5100 3.6x10-B 7.1x10-6 1.3x10-3 6.3x109 5.4x10-3 5400 1.15x10-3 5x109 3.75x10-8 6.4x10-6 4.8-10-3 4800 2.2x10-8 19.4x10-6 .16x10-3 7.2x109 14.7x10-3 14700

14x109

10x109

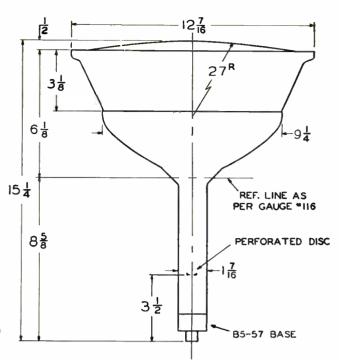
08x10-3

.7x10-3

12.3x10-6

Fig. 2: Dimensions for the pepperpot tube, a CRT with modifications to produce pencil rays.

A conventional CRT, modified to produce split pencil rays, readily interprets distortion errors. For production control, the tube permits the use of a standardized, simple, and fast test method.



# Pepperpot Tube

# **Checks Yoke Linearity**





W. F. Niklas

H. O. Marcy

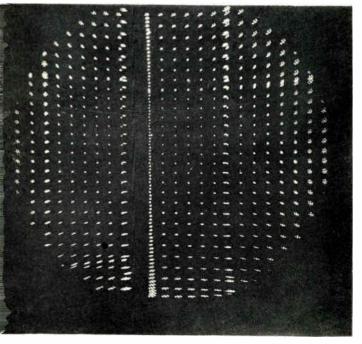
#### By DR. WILFRID F. NIKLAS

Head, Special Purpose Tube Dept., The Rauland Corp., 4245 N. Knox Ave., Chicago 41.

#### DR. HENRY O. MARCY

President, Syntronic Instruments Inc. 100 Industrial Rd., Addison, III.

Fig. 1: Dot-raster with the magnetic focusing lens adjusted for the circle of smallest confusion of the pepperpot image in screen center.



A MAJORITY of cathode-ray tubes for TV reproduction, radar, and information storage utilize magnetic deflection of the electron beam. The deflecting magnetic fields are generated by the yoke, which is located at the funnel end of the tube neck.

The dissimilar fringe fields and distortions of the main part of the deflection fields generally cause deflection errors. Standard test methods permit a partial performance evaluation of deflection yokes but are rather tedious and time consuming.

A pepperpot tube makes easy the use of the pencil ray method for the investigation of deflection fields. The application of this tube greatly reduces the costs for the production and development testing of yokes.

#### Deflection Errors

The deflection errors can be divided into raster distortions and spot distortions. Raster distortions can be displayed quite readily utilizing a line raster on the face of the tube, which may show barrel, or pincushion, distortion.

The spot distortions may be subdivided into 3 groups:

#### a) Curvature Distortion

Distortions due to the difference in the curvature of the image plane (position of the beam cross-over on the screen area) and the faceplate. Generally, the center of curvature of the faceplate is not located in the deflection center but further back towards the cathode. Thus, the beam crosses over before impinging on the screen in the side areas leading to defocusing.\* This defect is essentially a geometrical error.

#### b) True deflection distortions

True deflection distortions are errors due to the horizontal or vertical deflection fields. Besides these first order effects, new deflection errors occur due to the combined influences of the 2 fields. Theories of the deflection errors have been developed by Wendt, Hutter, et al. The visual result is an unsharp defocused spot in the side areas, which may display astigmatism, coma, and "apparent image rotation." Most of these effects can be traced back to an im-

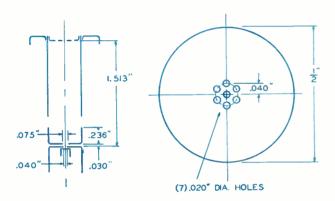


Fig. 3 (above): The straight electron gun (left), a tetrode, requires an external magnetic lens for focusing. The built-in pepperpot diaphragm (right) splits the electron beam into seven axial pencil rays.

Fig. 4: (right) Set-up for pencil ray testing using the pepperpot tube.

perfect deflection yoke design, over-exaggerated fringe fields, or magnetic coupling with focusing or centering units.

#### c) Cosine distortion

Due to (a), the electron beam does not impinge on the screen under 90°. The screen of the tube sees, therefore, a projected cross section of the beam. The axis of the spot along which scanning occurs is elongated by the reciprocal value of the cosine of the angle between the axis of the beam and the screen normal. This relatively minor effect amounting to roughly 10-15% elongation of the spot can be neglected.

#### Test Methods

The conventional test methods for deflection yokes consist of field pattern investigations and observing the deformation of a dc deflected, unfocused, electron beam on the face of the tube.

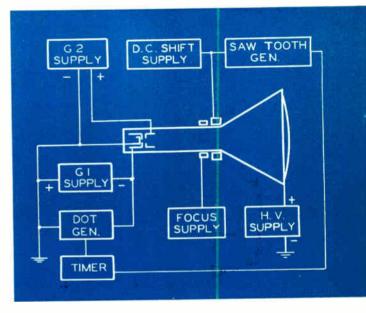
Direct field investigations may be carried out either by probe measurements or by utilizing iron filings, especially ferro-magnetic powders, with high remanence. "Field plotting" has also been applied for this purpose.<sup>3</sup> Since integration over the path of the beam is required, this method is rather cumbersome.

More readily interpretable results are obtained by the dc deflection method. The unfocused beam appears in the screen center as a luminescent circle with a diameter of ½-¾ in. (provided no aberrations are present in the gun). DC deflection of the beam may result in an elliptical distortion and variations of the size which indicates the effects of the yoke. The practical application of this method, however, requires the accurate determination of the lengths of the main axis and their ratios and is rather tedious.\*

The need for a rapid and accurate test method is great. To solve this problem, the use of pencil rays for the investigation of the deflecting magnetic fields seemed promising.

#### Pepperpot Tube

The pepperpot tube, which is, in essence, a conventional CRT modified to produce pencil rays, is shown



in Fig. 2. It has a 12 in. dia. with a metal cone for light weight and sturdiness. The faceplate is spherical with an inside radius of 27 in. The uniform thickness of the faceplate, which could be used due to the metal cone, decreases optical distortions. The distance from the reference line to the inside of the faceplate is 61/8 in. The present version possesses a standard neck (OD 1-7/16 in.) with a full deflection angle of 90°. However, neck diameter, deflection angle, and shape of the flair are not fundamental limitations.

The screen of the tube (standard P-4 phosphor) is aluminized, thus a straight gun, Fig. 3, may be used. Aluminizing also eliminates distortions due to static charges. The gun is of the tetrode type, requiring an external magnetic lens for focusing. The diameter of the second grid aperture is chosen somewhat larger than usual to permit a better flooding of the limiting aperture in the third grid.

This aperture possesses a built-in pepperpot diaphragm, which is shown in Fig. 3. When fully flooded the apertures split the electron beam into 7 axially (Continued on page 438)

# What's New . . .

# Daylight Radar Scope Uses Transparent Phosphor

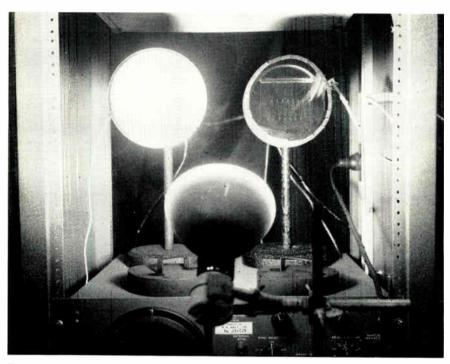


Fig. 1: Reflected light completely masks trace on conventional tube; new tube shows clear trace.

THE Naval Research Laboratory has announced a revolutionary new television screen. The new screen will permit viewing of television in bright daylight with little loss of contrast. The new screen also provides a new simplified approach to color television, and is expected to lead to the development of three-dimensional viewing.

The basis for the new screen is a process for depositing phosphor on the face of the tube in the form of thin transparent films in place of opaque white powders now used. The films are more rugged than the powdered screens, can be made brighter because they do not burn out as easily, and present a much sharper image.

The improved daylight viewing of black and white television comes about because of the naturally improved contrast obtained with transparent films. The powdered surface in present tubes is a good reflector, and in strong sunlight the reflection is brighter than the picture. With the transparent film, sunlight goes through the film and is lost in the darkened interior of the tube so that contrast is maintained even with bright daylight shining directly on the tube.

The second advantage of the films is the sharpness of the picture. The conventional powdered screens have a grainy texture that scatters part of the light that is formed and results in an image with hazy borders. The films show no visible grains and scatter none of the light that is formed so that the image is as sharp as the electron beam in the tube.

Both of these advantages can be applied to the present form of color television but the transparent films also provide the basis for a completely new approach to the problem. Films that create different colors can be deposited one atop another and lighted separately or mixed by controlling the speed or the direction of the electrons in the tube. By using one film of each of the three primary colors the complete color spectrum can be obtained by proper mixing. Tubes with several combinations of two primary colors and blends of these two colors are in successful operation

(Continued on page 148)

# Add New Life To Orthicons

AT the fall symposium of the Professional Group on Broadcast Transmitting Systems, Mr. John Wilner of WBAL presented a paper entitled "A Method to Prevent Image Orthicon Burn-in." He described a system to oscillate the turret of an image orthicon camera slowly about its axis through a small angle. This causes the image on the photocathode to be constantly in motion even though the subject matter and the camera are stationary, and so minimizes burn-in.

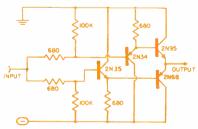


Fig. 1: Orbital compensation amplifier.

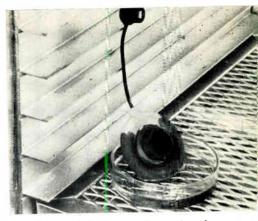
Original test results at WBAL were extremely good. Visual Electronics Corp. has designed a commercial version which includes ver-

#### No-Mix Resin Casting

A NEW approach to resin insulation of electronic components has been developed by Minnesota Mining and Manufacturing Co., St. Paul, Minnesota. The new method eliminates the mixing of resin and catalizer, at least in the ordinary sense. Instead, the inert filler is treated with materials which make it bondable, and which also will catalyze the cure of a liquid resin. The catalytic filler is blown, pressed, or molded around the part to be insulated,

then bonded by heat. The final step is accomplished merely by touching the coated part to liquid resin, allowing capillary action to wet the entire part. No mixing is required.

According to Robert Herr and J. S. Casement of 3M's Electrical Products Laboratory, the system is applicable to many classes of resin-hardener systems, and to many different applications of impregnation, molding, or encapsulating.



Bonded inert filler surrounding coil soaks up liquid resin and provides catalytic action, eliminating need for mixing catalyst with resin. System provides higher filler content and improved thermal conductivity. Simplified encapsulation for experimental quantities and production runs results from this technique.

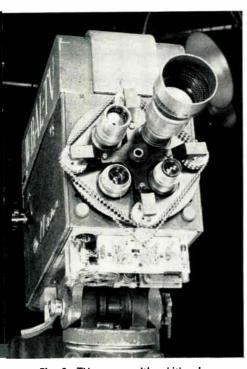


Fig. 2: TV camera with orbiting lens.

tical as well as horizontal motion and correction.

The operation of the device is relatively simple. It consists of a mechanism to move the lenses of a television camera in a small circular orbit. Thus the image on the orthicon photocathode moves in the same circular orbit. The orbit is only 9/64-in. in diameter, and the rate of the motion is approximately two times around per minute. This slight motion of the image on the photocathode of the tube has

( Continued on page 182)

### New HELPR For Electronic Industries

A NEW approach to reliability testing of electronic components is proposed by Inland Testing Laboratories, Cook Technological Center, Morton Grove, Illinois. This group would run extensive reliability tests on electronic components and distribute the test results to subscribing manufacturers. The most obvious benefits would be elimination of costly duplication of tests by individual companies; more complete and extensive tests; and lowered test costs through use of automation,

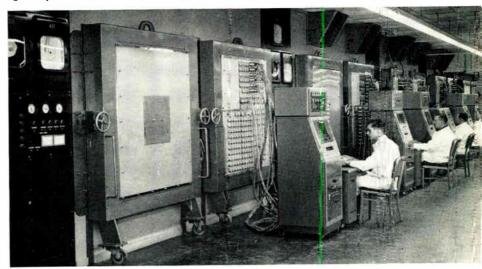
computers, and maximum use of test facilities.

"HELPR"

Subscribers would receive results of tests in the form of loose-leaf notebook sheets with results of tests to date—superseded by later data sheets and curves as each component testing program matured. From this Handbook of Electronic Parts Reliability Program comes the provocative name of the program, "HELPR."

(Continued on page 136)

Fig. 1: Operators monitor control consoles during reliability tests at Inland Testing Laboratories.



## What's New . . .

## Sunspots Aid Radio Circuits

RESULTS of a ten-year study by John H. Nelson, of RCA Communications, Inc., refute the popular belief that all sunspots are bad for overseas radio communications. Actually, records prove that transmitting conditions on international radio circuits get better as the number of sunspots increases.

Mr. Nelson is RCA's propagation analyst. He has been studying the sun from a skyscraper observatory in downtown Manhattan since 1946, and his findings have become a major factor in establishing the reliability of RCA's overseas radio communications.

The average monthly sunspot count has been rising continually during the past three years. Despite this situation, conditions on world-wide radio circuits have been well above normal for the entire period. Moreover, radio-weather has steadily improved as the sunspot count climbed higher.



FIG. 2: Sunspot outburst of Feb. 1956 shows in this Navy photo.

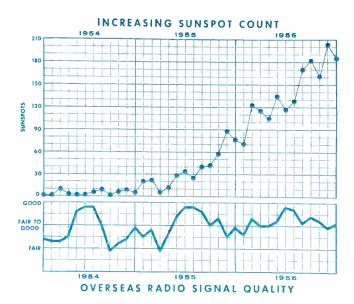
Although there is such a thing as a "bad" sunspot, fortunately for international radio communications there is an oversupply of "good" sunspots — more than enough to counteract the effects of the occasional bad ones. Through his studies, Mr. Nelson has devised a method of identifying sunspots as being either "good" or "bad."

Good sunspots are rich in ultraviolet light, which has a strengthening affect on the ionosphere. The strength of the ionosphere, from which radio waves are reflected back to earth, is the basic factor in determining radio weather conditions. The occasional appearance of a bad sunspot—one with weak ultra-violet radiation—tends to reduce the ionosphere's ability to reflect radio waves.

When seen through a telescope, (Continued on page 148)

Fig. 1 (1.): Sun chart in hand, RCA expert John H. Nelson studies sunspot activity at his Manhattan observatory.

Fig. 3 (right): Sunspot count and radio signal quality over the past three years show positive correlation in this chart.



## Industry Sets New

## Transistor Standards

What are the new IRE symbols for transistor parameters? What is the "system" used to form the new symbols? Here is a thorough explanation of the new symbols, and useful additional symbols

	11	SYMBOLS					
		140	I, V, P				
S U B S C	- > 0 -	INSTANTANEOUS VARYING COMPONENT VALUE	RMS OR EFFECTIVE VARYING COMPONENT VALUE				
	EBCJ	INSTANTANEOUS TOTAL VALUE	AVERAGE (dc) VALUE				

Fig. 1: Basic subscrip system for IRE symbols.

By L. F. LEINWEBER and C. D. TODD

Transistor Design Engineers Semiconductor Products Dept. General Electric Company Syracuse, N. Y. M ANY authors do not understand the importance of good terminology in effectively communicating their ideas. The authors of scientific papers, who take great care with their experimental and theoretical work, too often do a mediocre job of writing up the results. We can improve this situation by all pressing for better writing in our field. A good symbology is the best start toward clear writing.

#### IRE Standard Symbols

Symbols are a shorthand notation. It is obvious that they save time and space in writing notes on experiments. But recent studies, by psychologists interested in "information theory," have demonstrated that we have much more to gain, than this. A symbol gives us information in a convenient "idea block." This means more information content per unit of thought effort. This is a tremendous gain—we can actually think more quickly, and with less effort, because we need less storage space mentally for the same thought content.

#### Why Have Symbols

The IRE symbol system is simple and easy to remember. This is important when attempting to get thousands of people to throw aside their pet symbols to adopt new ones. The basic subscript notation for current, voltage and power is shown in Fig. 1. Lower case symbols represent instantaneous values. Upper case symbols indicate RMS, effective and average (dc) values. The choice of subscripts—lower case for varying component values, and upper case for total and average or dc—completes the precise description of the measurement.

Fig. 2: Common small-signal parameters.

COMM. BASE	PARAMETER	COMM. EMITTER				
hob	OUTPUT ADMITTANCE	h <sub>oe</sub>				
hib	INPUT IMPEDANCE	hie				
h <sub>rb</sub>	B REVERSE VOLTAGE TRANSFER RATIO					
hfb	FORWARD CURRENT TRANSFER RATIO	hife				
fab	CUT-OFF FREQUENCY(ALPH CUT-OFF)	fae				
Сор	OUTPUT CAPACITANCE	Coe				

#### Transistor Symbology (Continued)

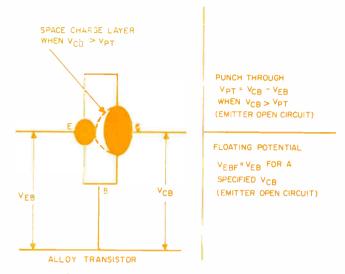


Fig. 3: Punch-through needs a distinct symbol.

A simple dc circuit illustrating some of these rules is given in Fig. 4. We see dc bias currents  $I_{\rm B},~I_{\rm C}$  and  $I_{\rm E}.$  The dc voltages across the transistor,  $V_{\rm BE}$  and  $V_{\rm CE}$  are logical and illustrate a convenient rule—the first subscript represents the electrode at which something is being measured. The second subscript shows the reference electrode. Thus,  $V_{\rm BE}$  indicates that we are measuring the dc voltage between the base and the emitter.

Supply voltages are indicated by repeating the electrode subscript. You may add the reference electrode as a third subscript, as in  $V_{\rm BBE}$  for the base supply. Notice  $R_{\rm B}$ . External circuit resistance is indicated by capitalizing both the symbol and the electrode subscript. You may show internal parameters by using a lower case symbol with the appropriate subscripts.

Now let's look at some common small-signal parameters in Fig. 2. Look at the first four symbols—the "h" parameters. Notice the first subscripts "o" for output "i" for input, "r" for reverse transfer, and "f" for forward transfer. The same subscripts are used for "y" and "z" parameters. The second subscript indicates the circuit configuration i.e., common base, emitter or collector.

These are small signal measurements. DC measurements may be indicated by the use of capital subscripts. For example, if you want to indicate the dc forward current transfer ratio, you simply change  $h_{fb}$  to  $h_{FB}$  or  $h_{fe}$  to  $h_{FE}$ . This conciseness of notation is very useful.

It should be pointed out that some people may prefer to use numeric subscripts, for ease in matrix manipulation. Those who so desire, certainly may do so. "o" can be equated to "22," "i" to "11," "r" to "12," and "f" to "21." We feel that the letter subscripts are shorter and neater for regular use. In particular, they seem easy to most newcomers to the field. Those who do extensive reading in the field should not be confused by matrix vs. letter notation. Both are recognized in the IRE standard.

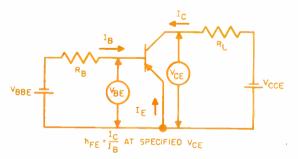
The designation for cut-off frequency shows the strong influence of "a" in our early work.  $f_{ab}$ ,  $f_{ae}$  and

 $f_{ac}$  preserve "a." Thus our  $h_{fb}$  cut-off frequency is  $f_{ab}.$   $C_{ob}$  and  $C_{oe}$  follow easily as output capacity. Figure 5 shows several common dc measurements. The behavior of a diode is characterized by its voltage and current characteristics. Let's examine the collector-base diode. For a specified reverse voltage below breakdown, we can measure a current  $I_{CBO}$  (frequently called  $I_{CO}$ ). The "o" as a third subscript shows that the other electrodes are open circuited. A similar measurement on the emitter-base diode is  $I_{EBO}$ .

A "B" before a voltage symbol indicates that the measurement is made in the breakdown region. The non-specific term PIV is thus replaced by exact terms — $BV_{CBO}$  for collector breakdown and  $BV_{EBO}$  for emitter breakdown.

Now look at the second circuit. It illustrates two things—a common emitter configuration, and the idea of an additional third subscript to represent the termination of the other electrodes. We have already seen the "o" in use to represent an open circuit condition. Look at BV<sub>CES</sub>. The "S" indicates that the base is shorted to the emitter in the triode shown in the diagram on the right. Our middle symbol, BV<sub>CER</sub>, uses the IRE provision for additional third subscripts for other terminations besides "O" and "S." We have chosen "R" to represent a resistance between base and emitter in this circuit. These are very useful measurements in terms of common emitter operation, since they are a function of h<sub>fb</sub>, and "m" the charge carrier multiplication factor referred to by McKay and others. It is a limitation on the practical maximum operating collector-emitter voltage.

Flg. 4: Simple circuit illustrates IRE rules



We have one more type of voltage limitation on the practical use of a transistor. Let's look at Fig. 3. The IRE standard terminology does not provide directly a symbol for Punch-through. We believe it is a very important phenomenon and disagree with those who are satisfied with the corresponding floating potential measurement.

Let us explain our view. Punch-through is a distinct, unusual phenomenon. It is not a voltage breakdown in the sense of  $BV_{CBO}$ , a diode avalanche. It is not related to charge carrier multiplication and  $h_{fb}$ , as is the  $BV_{CEO}$ ,  $BV_{CER}$ ,  $BV_{CES}$  family. Rather, it is a space charge layer widening problem. Examine the left half of Fig. 3. This shows an alloy transistor. As th potential  $V_{CB}$  is increased, from a low value toward a high value, the collector-base space charge layer spreads or widens. The spread into the base region results in a narrower effective base width. Provided

the diode does not avalanche before the space charge layer spreads across to the emitter region, we encounter a new problem—punch-through. In effect, the base region "disappears" as the collector-base space charge layer contacts the emitter, and transistor action stops. There is no voltage breakdown. The transistor action will resume if the voltage is lowered to any value below punch-through. But, in the punch-through condition we no longer have a normal transistor; and if the current flow is not limited by external resistance, the high current that can flow will overheat the transistor causing permanent damage.

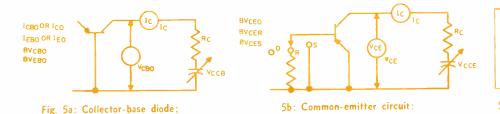
For measurement purposes, we can use a VTVM between emitter and base to give essentially an open circuit, and then  $V_{\rm PT}{=}V_{\rm BC}$  -  $V_{\rm EB}$  for values where  $V_{\rm CE}$  is greater than  $V_{\rm PT}$ .

The floating potential concept tells us only that for a specified  $V_{\rm CB}$ , our floating emitter potential is less than a specified value—say one volt. It gives us no insight into why or at what voltage our transistor will

the inverted parameter. This is a particularly useful notation when describing symmetrical switching transistors, and we offer it to you as an easy way to convey the inverted parameter concept while using the standard normal parameter symbols.

" $V_{\rm CE}({\rm SAT})$ " is a similar problem.  $V_{\rm CE}$  is the IRE symbol which indicates any dc voltage between collector and emitter. By adding "(SAT)" we show that this is the special case where the transistor is being driven hard and has bottomed in the collector saturation region. These voltages, of course, may be millivolts.

The next two symbols, Power Gain "Ge" and Noise Figure "NF," follow the general IRE terminology standard written for vacuum tubes. The power gain symbol is most useful to us when we add a subscript "e" or "b" to indicate the configuration used for the measurement. The last symbol on the chart is "r'b," base spreading resistance. No symbol was provided for this in the standard. It is a parameter in a spe-



1d O-MIC DELAY TIME

1r RISE TIME

1s STORAGE TIME

1f FALL TIME

BFE DC CURRENT AMPLIFICATION

5c: Common switching measurements.

be out of operation. Hence, we strongly urge the addition and use of  $V_{\rm PT}$  for punch-through.

Fig. 5c shows some common switching measurements. " $t_d$ " represents ohmic delay time. It is mainly dependent upon input pulse current. It represents a delay between the time a signal is applied to the transistor and the time a response is observed at the collector terminal.

" $t_r$ " is rise time. In many cases,  $t_d$  and  $t_r$  have been grouped together and called " $t_o$ " or "turn on" time. The turn off characteristic of the transistor is described in terms of the delay between an attempt to turn the transistor off and the time the collector actually begins to respond, plus the actual fall time. This delay, or storage time, is called " $t_s$ ," and represents the time to clear out stored minority carriers. " $t_t$ " is the fall time.  $h_{FE}$ , the dc current transfer ratio, has been included because of its close connection with switching performance.  $h_{FE}$ , is a more convenient term than "DC beta" once you start to use this terminology.

In addition to the normal characteristics of a transistor, we are sometimes interested in the inverted amplification of the transistor, i.e., the amplification with the collector and emitter electrodes interchanged. An example of a symbol for this is shown in Fig. 6.

In the IRE Symbol System, " $\alpha_F$ " and " $\alpha_R$ " are provided as separate possible symbols to represent forward and reverse current transfer ratio. Since we prefer to use the "h" parameter notation provided in the system, we feel that a simple notation "(INV)," after any symbol, will adequately indicate that it is

cific high frequency circuit representation of a transistor. Symbols like this have a use, but are not general in the sense of the standard. So for these, use your own symbol if needed, but, if you add a symbol, be sure it harmonizes with the IRE terminology.

#### Conclusion

We have tried to show you why these symbols are needed and how they will help our industry. We have examined many of the common symbols and discussed what they are. A few additional symbols that have been found useful in the Semiconductor Products Department of GE have been indicated.

Fig. 6: Some useful additional symbols.

h <sub>FE</sub> (INV)	INVERSE N <sub>FE</sub> (EMITTER AND COLLECTOR LEADS SWITCHED)
V <sub>ČE</sub> (SAT)	COLLECTOR SATURATION VOLTAGE (SPECIFY IC AND IB)
G <sub>e</sub>	POWER GAIN (COMMON EMITTER)
NF	NOISE FIGURE
r'b	BASE SPREADING RESISTANCE

A number of companies, and many individuals, are already using these symbols. Many transistor specification sheets have been revised using the symbols illustrated. These symbols are logical and easy to use. Get thoroughly acquainted with them. Persuade your associates to use them. Do your part to accelerate industry wide use of the IRE Standard symbols.



Circuit engineers can predict effects of component variations in complex circuits. Pole and Zero analysis tells which components require tight tolerances, and which can be cheaper, high-tolerance components

# Poles and Zeros Speed Circuit Analysis



By W. A. SCISM

Frequently, the transfer functions of multi-mesh circuits contain the values of the original circuit components in such complicated form that it is virtually impossible for the designer to predict changes in the network frequency response for small changes in component values. Thus, a point-by-point frequency response plot is an analysis procedure which is valuable for determining the behavior of a network that is already designed, but its value for network synthesis is extremely limited.

The pole and zero method of circuit analysis offers a rapid insight into the behavior of many circuits and variations in behavior with changes of components. This article will concern itself with the pole and zero distribution of various networks and the use of this distribution to predict the network performance with variations in components.

A pole is a frequency (real, imaginary or complex) at which the transfer function goes to infinity, and a zero is a frequency at which the transfer function goes to zero. This is similar in concept to

lossless parallel and series resonant circuits, respectively. In the following examples, the variable p will be substituted for  $j\omega$ .

For the first example, consider the case of a series loaded parallel resonant circuit as shown in Fig. 1. The transfer impedance of this network is:

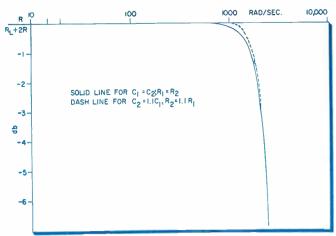
$$\frac{e_o}{i} = \frac{p + \frac{R}{L}}{C \left[p^2 + p \frac{R}{L} + \frac{1}{LC}\right]}$$

Notice that the numerator goes to zero when  $p=-\frac{R}{L}$ ; this is the zero of the transfer impedance. The denominator of the expression goes to zero when  $p^2+p\frac{R}{L}+\frac{1}{LC}=0$ . The two roots become zeroes of the denominator and poles of the transfer impedance.

$$p = -\frac{R}{2L} \neq \sqrt{\left(\frac{R}{2L}\right)^2 - \frac{1}{LC}}$$

$$p = -\frac{R}{2L} \neq j \sqrt{\frac{1}{LC} - \left(\frac{R}{2L}\right)^2}$$

W. A. SCISM, Senior Electronics Engineer, Convair-Astronautics, San Diego, Calit. A Division of General Dynamics Corp.



The placement of these roots on the 'p' plane is shown in Fig. 2, letting O denote zeroes and X denote poles.

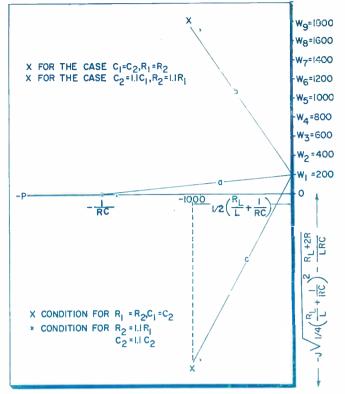
Several bits of information are immediately apparent from inspection of this plot; a vector drawn from the origin to the pole has a magnitude  $\sqrt{\frac{1}{LC}}$  and is the normal resonant frequency of the coil and condenser. The distance is inversely proportional to the Q of the circuit. As R approaches zero, the Q approaches infinity and the pole and zero combination shifts in such a manner that the zero moves to the origin and the complex poles move onto the real or jp axis at  $\omega = \frac{1}{LC}$  and become purely imaginary. The phase angle is  $\alpha-\beta-\gamma$ . Note that  $\gamma$  is negative for the condition in Fig. 2.

The transfer impedance at any real frequency  $\omega_1$  is the product of the distances from a point  $\omega_1$  on the p plane to the zeros of the network divided by the product of the distances from the same point to the poles. Hence  $Z_T(\omega_l) = \frac{tk}{rs}$ , where K is a normalizing constant. A few points will yield a graphical construction of the simple parallel resonance curve.

Comparing the high Q (Fig. 3A) and the low Q (Fig. 3B) cases, it can be seen by inspection that in the high Q case near resonance the lines s and t are of almost constant length, whereas line r has a large rate of change with jp or  $\omega$ . Hence r is the determining factor in  $Z_t$  near resonance and the resonance curve shows a symmetry that is practically arithmetic. In the low

Fig. 5: Normalized plot of Pole and Zero representation in Fig. 6

Fig. 6: Pole and Zero analysis of low pass filter with finite Q inductor (Fig. 4)



Q case, however, it can be seen that the rate of change of r with  $\omega$  is no longer vastly greater than that of s and t, and the resonance curve shows pronounced geometric symmetry.

The pole and zero method is of particular importance to the designer in cases where the variations in performance with limit components is desired. A proper evaluation of circuit performance in this manner leads to correct specification of components as to tolerances and avoids costly precision when it is unnecessary. Consider the low pass filter with a finite Q inductor as in Fig. 4.

Assume  $C_1 = C_2$  and  $R_1 = R_2$ 

$$\frac{e_o}{e_1} = \frac{1}{2CRL\left(p + \frac{1}{RC}\right)}$$

$$\cdot \frac{1}{\left[p^2 + p\left(\frac{R_L}{L} + \frac{1}{RC}\right) + \frac{R_L + 2R}{LRC}\right]}$$

In this case there are 3 poles

$$p_{L}^{2} = -\frac{1}{RC}, p = -\frac{1}{2} \left( \frac{R_{L}}{L} + \frac{1}{RC} \right)$$

$$= \sqrt{\left( \frac{R_{L}}{L} + \frac{1}{RC} \right)^{2} - 4 \frac{R_{L} + 2R}{LRC}}$$

and no zeroes. Let  $\omega_c$ , the design center cut off frequency be 1000 radians per second and  $R=1000~\Omega$ .

$$L = \frac{2R}{C} = 1 \text{ Henry} \quad C = \frac{1}{2\omega R} = .5 \,\mu\text{fd.*}$$

Assume a coil Q of 10 at  $\omega_c$ , then  $R_L=100~\Omega.$ 

The poles become p = -2000 and  $p = -1050 \pm j$  1755 and are shown placed on the p plane in Fig. 6. Plotting the normalized curve in db with respect to the response at  $\omega = 0$ 

$$\frac{e_{\bullet}}{e_{1}} = \frac{R}{R_{L} + 2R} \times \frac{a_{\circ}b_{\circ}c_{\circ}}{abc}$$

where a, b, and c are in any convenient units of length for scaling values from the p plane. The response is shown in Fig. 5 (solid line). It should be noted that an inductor having a Q of infinity would move the complex poles from  $-1050\pm j$  1750 to -1000 + j 1730 which constitutes a minor improvement in response. The effects of the inductor manufacturing tolerances can be shown by substituting limit values of L on the p plane and replotting the response. To take differential variations in the two capacitors and resistors into account. the original assumption that they are equal must be abandoned and  $C_1$ ,  $C_2$ ,  $R_1$  and  $R_2$  used in the mesh equations. Since the transfer functions sometimes become unwieldy when substitutions such as this are

(Continued on page 441)

# The Boolean Approach to Computer Switching

Developing the elements of Boolean algebra and its applications to the synthesis and analysis of combinatorial circuits, this article presents the basics for logical design.



By IRVING J. GABELMAN Rome Air Development Center Griffiss AFB, Rome, N. Y.

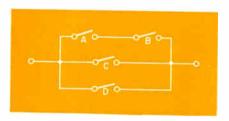


Fig. 1: A relay circuit which exemplifies the condition of a simple Boolean function.

BOOLEAN ALGEBRA attempts to describe a physical situation compactly and in such a manner that operations on the variables will enable a clearer insight into the nature of the physical analog. The variables are limited to the values of 1 or 0 representing logical truth or falsity, respectively.¹ These states are mutually exclusive.

The extension of representation, identifying the 1 or 0 with the onoff of a relay, the conduction or non-conduction of an electronic gate or the 2 states of any bistable element, is apparent.

Statements about systems composed of bistable elements correspond directly to statements about logical nets. In Boolean algebra there are 3 fundamental opera-

tions on the 2 valued variables; conjunction, disjunction and negation. These operations are defined in Table 1.

#### **Terminology**

Unfortunately, the terminology given in Table 1 is not standardized. In this article the conjunctive ("and") operation symbols are those used in ordinary algebraic multiplication; the disjunctive ("or") operation by (+); and, negation ("not") by a prime (').

Boolean algebra has been applied extensively to telephone switching circuits employing relays as the basic bistable element. In this application, the closed state of a relay is represented by a binary variable x and its open, or negated, state by x'. The conjunctive condition applies to relays in series and the disjunctive condition to relays in parallel.

A Boolean function is an algebraic expression relating a number of variables. The function

f(ABCD) = AB + C + D (1) when related to relay circuits states that the complete circuit consisting of relays A, B, C and D is closed when either relays A and B are closed or relay C is closed or relay D is closed. The circuit for this function is shown in Fig. 1.

From the basic postulates given in Table 1, a set of theorems may be derived. These are given in Table 2.

#### Theorem Validity

The validity of the theorems of

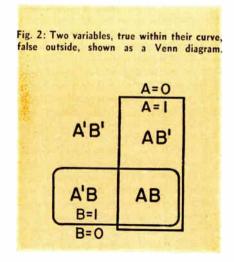
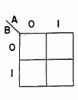


Table 2 may be established by means of a truth table. A truth table is a table which lists all the combinations of the variables and the corresponding value of the function. The validity of a Boolean equality is established when both sides of the equality are

Table 1	l
---------	---

Boolean	Variable	Conjunction	Disjunction	Negation	_
x	у	xy	x+y	x' y'	
0	0	0	0	1 1	
0	1	0	1	1 0	
1	0	0	1	0 1	
1	1	1	1	0 0	



CD	00	01	11	10
00				
01				
11				
10				

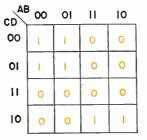


Fig. 3: A 2 variable Karnaugh Chart.

Fig. 4: This Karnaugh Chart represents four variables.

Fig. 5: Functional representation, in orange, of Eq. 2.

= Y+X Commutative Law

Venn diagram is evident. The Karnaugh Chart for 4 variables is shown in Fig. 4.

The area of overlap is AB with

other areas defined as shown. The

derivation of the 2 variable Kar-

naugh Chart, Fig. 3, from the

The Karnaugh Chart can be used for representation of Boolean functions. Given a function

$$\begin{array}{l} f\left(ABCD\right) = A'B'C'D' + A'BC'D' + \\ A'B'C'D + A'BC'D + \\ ABCD' + AB'CD' \end{array} \tag{2}$$

its representation in the Karnaugh Chart is shown in Fig. 5.

The main use of this chart is in the reduction of Boolean algebraic functions. The rules for finding minimal form for the charted function are:

a. Choose a rectangular or square set of charted 1's (1, 2, 4 or 8 internal squares).

b. Every 1 must be chosen at least once.

c. Find the variables which remain unchanged throughout the (Continued on page 182)

#### X + X'Y = X + Y

the variables. Theorem (15)

equivalent for all combinations of

has 2 variables. Table 3 is the truth table establishing its validity.

The first 2 columns contain all combinations of the variables X and Y while the equivalence of the last 2 columns establishes the truth of the theorem.

#### Karnauah Chart

The theorems of Table 2 are the basic relationships used in the simplification of Boolean functions. In general, algebraic simplification by minimization of the number of variables does not necessarily translate into the circuit of least complexity.

The Karnaugh Chart<sup>2</sup> is a topological device for generating a variety of near minimal algebraic form with rapidity, giving the designer latitude in the choice of a final design. The Karnaugh Chart has its foundation in the Venn diagram, a topological interpretation of Boolean Algebra.

In the Venn diagram, a Boolean variable is true in the area within a closed curve and false external to the curve. The conjunctive operation translates to the overlap of areas of the variables. Fig. 2 is the Venn diagram for 2 variables.

The area inside the vertical rectangle represents A and all the external area, A'. The areas within and without the horizontal rectangle are B and B', respectively.

#### +Z = (X + Y) + ZAssociative

$$\begin{array}{c} = X + (Y + Z) \\ (9) \ XYZ = (XY)Z \\ = X(YZ) \\ (10) \ XY + XZ = X(Y + Z) \\ \end{array}$$

$$\begin{array}{c} Associative \\ Law \\ Distribution \\ Associative \\ Associa$$

Table 2

 $+X \dots +X = X$ 

X

$$\begin{array}{ll}
(10) & XY + XZ = X(Y + Z) \\
(11) & (X+Y) & (X+Z) \\
&= X(Y+Z)
\end{array}$$
Distributive

(12) 
$$X + XY = X$$
  
(13)  $X(X+Y) = X$ 

(4)

(5)

(6)

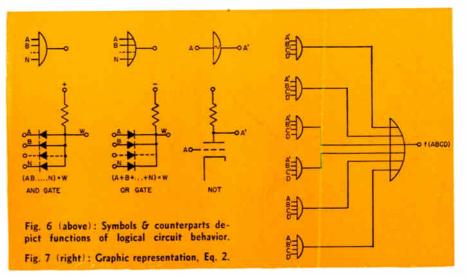
$$(14) X(X+Y) = XY$$

$$(15) X + X'Y = X + Y$$

(13) 
$$X(X+Y) = X$$
  
(14)  $X(X'+Y) = XY$   
(15)  $X+X'Y = X+Y$   
(16)  $(X+Y+Z)' = X'Y'Z'$  DeMorgans  
(17)  $(XYZ)' = X'+Y'+Z'$  Theorem

Table 3

X	Y	x'	Χ'Y	X+X'Y	X+Y
0	0	1	0	0	0
0	1	1	1	1	1
1	0	0	0	1	1
1	1	0	0	1	1



## Calculating R-C Amplifier

## Supply Voltages

The trial and error method is eliminated by assuming that the tube "constants" are actually constants and that the input signal always swings the tube from cutoff to zero grid-to-cathode voltage

#### By SID DEUTSCH

Associate Professor of Electrical Engineering Polytechnic Institute of Brooklyn, 99 Livingston St., Brooklyn 1, N. Y.

#### Part Two of Two Parts

#### Pentode Amplifier

The characteristic curves of an idealized pentode are shown in Fig. 5b. Operation will be restricted to the linear region, i.e., the plate-to-cathode voltage must never be less than m times the screen-to-cathode voltage. In the linear region, the plate current is always k times the screen current itself obeys the equation for the idealized triode, Eq. 1:

$$i_s r_s = E_{sk} + \mu_s E_{gk} \tag{19}$$

The constants m, k, r<sub>s</sub>, and  $\mu_s$  can be calculated from tube manual data. As an example, for the 6AU6 tube:

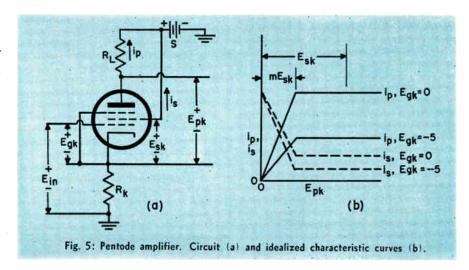
m: With  $E_{sk}=100$  v., the characteristic curves depart from linearity at  $E_{pk}=30$  v., so that m=0.3.

k: Under typical operating conditions,  $i_p = 5.2$  ma while  $i_s = 2.0$  ma, so that k = 2.6.

 $r_{\text{s}}\colon$  From the characteristic curves,  $i_{\text{s}} = 4.2 \text{ ma when } E_{\text{sk}} = E_{\text{pk}} = 100 \text{ v.}$  and  $E_{\text{gk}} = 0.$  Substituting into Eq. 19.  $4.2r_{\text{s}} = 100,$ 

or  $r_s = 23.8 \text{K} \Omega$ .

 $\mu_0$ : Under typical operating conditions,



 $i_s=2.0$  ma when  $E_{sk}=E_{pk}=100$  v. and  $E_{gk}=-1$  v. Substituting into Eq. 19,

$$2.0 \times 23.8 = 100 - \mu_{\rm s}$$

or  $\mu_{\rm s} = 52.4$ .

For the circuit of Fig. 5a.

$$E_{gk} = E_{in} - i_s R_k (1 + k)$$
 (20)

and

$$S = E_{sk} + i_s R_k (1 + k)$$
 (21)

Eq. 19 to 21 then yield

$$i_s = \frac{S + \mu_s E_{in}}{r_s + R_k (1 + k) (1 + \mu_s)}$$
 (22)

The grid-to-plate gain is the derivative of the voltage across  $R_{\rm L}$  with respect to

 $E_{\rm in}$ . The current through  $R_L$  is  $ki_s$ . If  $R_L$  and  $R_k$  are replaced by the impedances  $Z_L$  and  $Z_k$ , one obtains

$$G_{p} = \frac{\mu_{e} Z_{L} k}{r_{e} + Z_{k} (1 + k) (1 + \mu_{e})}$$
 (23)

Similarly,

$$G_{k} = \frac{\mu_{s} Z_{k} (1 + k)}{r_{s} + Z_{k} (1 + k) (1 + \mu_{s})}$$
 (24)

Fig. 7a shows the equivalent circuit of the pentode amplifier as seen by a plate load impedance, while Fig. 7b is the equivalent circuit for a cathode load impedance. Because of the idealizing assumptions, Eq. 23 indicates that  $G_{\mathfrak{p}}$  is proportional

to  $Z_L$ . This is reasonably accurate if  $Z_L \leq 0.1 r_p$ . However, even if  $Z_L > 0.1 r_p$ , Eq. 23 is valid when employed, as in this article to calculate the supply voltages.

The generalized pentode amplifier is shown in Fig. 6. Calculation of the fixed bias voltage identically follows Eqs. 7 to 14, yielding

$$A = G_k \left( E_{gpp} + E_{gn} \frac{R_k}{R_p} \right) - E_{gp} \quad (25)$$

At cut-off, the screen-to-cathode voltage is  $\mu_0$  times the cathode-to-grid voltage. This yields

$$E_{skn} = \mu_s E_{gpp} (1 - G_k)$$
 (26)

The screen supply voltage is given by  $E_{\rm skn} + E_{\rm Rkn}$ , or

$$S = \mu_s E_{gpp} (1 - G_k) + E_{gn} G_k \frac{R_k}{R_0}$$
 (27)

The plate supply voltage is computed on the basis that  $E_{\rm pk}$  must equal  $mE_{\rm sk}$  at the zero-grid condition. For this purpose,  $E_{\rm skp} = S - E_{\rm Rkp}$ , or

$$E_{skp} = E_{gpp} (\mu_s - \mu_s G_k - G_k)$$
 (28) so that

 $E_{pkp} = mE_{gpp} (\mu_s - \mu_s G_k - G_k)$  (29) From analogy with Eq. 13,

$$E_{RLp} = G_p \left( E_{gpp} + E_{gn} \frac{R_L}{R_g} \right) \quad (30)$$

Finally, the plate supply voltage is given

while the peak value of screen current is given by

$$i_{\rm sp} \,=\, i_{\rm so} \, \frac{E_{\rm gpp}}{E_{\rm gn}} \tag{33} \label{eq:sp}$$

The average and peak values of plate current are k times the corresponding screen current values.

As an example of the application of the above equations, suppose that

$$\begin{split} m &= 0.2 \\ k &= 4 \\ \mu_s &= 20 \\ r_s &= 10 K \, \Omega \\ R_k &= 2 K \, \Omega \\ R_0 &= 1 K \, \Omega \\ R_L &= 20 K \, \Omega \\ R_g &= 5 K \, \Omega \\ E_{gn} &= 10 \, v. \\ E_{gp} &= 6 \, v. \end{split}$$

For this example, various calculated values and their associated equations are listed in Table 2.

For the 9 additional circuits of Fig. 4, the expressions appear as follows (in each case, assume that the tube is a pentode with the screen grid connected to S volts):

Circuit 2—Dual output,  $R_{\rm g} >> R_{\rm L}$ :

$$\begin{split} G_{k} &= \frac{\mu_{\text{g}} R_{k} \; (1 \, + \, k)}{r_{\text{g}} + R_{k} \; (1 \, + \, k) \; (1 \, + \, \mu_{\text{g}})} \\ &\quad A = E_{\text{gpp}} G_{k} - E_{\text{gp}} \\ &\quad S = \mu_{\text{g}} E_{\text{gpp}} \; (1 \, - \, G_{k}) \\ B &= E_{\text{gpp}} G_{k} + G_{p} \left( E_{\text{gpp}} + E_{\text{gn}} \; \frac{R_{L}}{R_{g}} \right) \\ &\quad + m E_{\text{gpp}} \; (\mu_{\text{g}} - \mu_{\text{g}} G_{k} - G_{k}) \end{split}$$

Circuit 4—Dual output,  ${\rm R}_{\tt g} >> {\rm R}_{\tt L}$  and  ${\rm R}_{\tt o} >> {\rm R}_{\tt k} :$ 

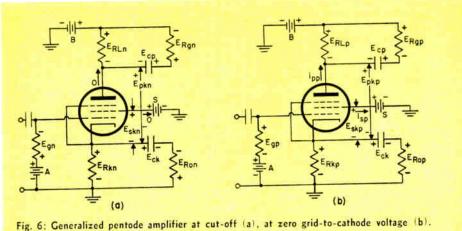
$$\begin{split} G_{p} &= \frac{\mu_{s}R_{L}k}{r_{s} + R_{k}\left(1 + k\right)\left(1 + \mu_{s}\right)} \\ G_{k} &= \frac{\mu_{s}R_{\chi}\left(1 + k\right)}{r_{s} + R_{k}\left(1 + k\right)\left(1 + \mu_{s}\right)} \\ A &= E_{gpp}G_{k} - E_{gp} \\ S &= \mu_{s}E_{gpp}\left(1 - G_{k}\right) \\ B &= E_{gpp}\left(G_{p} + G_{k}\right) \\ &+ mE_{gpp}\left(\mu_{s} - \mu_{s}G_{k} - G_{k}\right) \end{split}$$

Circuit 5—Grounded cathode:

$$\begin{split} G_{p} &= \frac{\mu_{s}Z_{L}k}{r_{s}} \\ G_{k} &= 0 \\ A &= -E_{gp} \\ S &= \mu_{s}E_{gpp} \\ B &= G_{p}\left(E_{gpp} + E_{gn}\frac{R_{L}}{R_{g}}\right) + m\mu_{s}E_{gpp} \end{split}$$

Circuit 6—Grounded cathode,  $R_g >> R_L$ :

$$G_p = \frac{\mu_s R_L k}{r_s}$$



by 
$$E_{RLp} + E_{pkp} + E_{Rkp}$$
, or
$$B = G_p \left( E_{gpp} + E_{gn} \frac{R_L}{R_g} \right)$$

$$+ G_k \left( E_{gpp} + E_{gn} \frac{R_k}{R_o} \right)$$

$$+ mE_{gpp} \left( \mu_s - \mu_s G_k - G_k \right) (31)$$

Thus, A, S, and B are given as functions of the tube constants, the resistors, and the peak signal voltages.

For the average value of screen current, the substitution of A for  $E_{\rm in}$  in Eq. 22 yields

$$i_{so} = \frac{S + \mu_s A}{r_s + R_k (1 + k) (1 + \mu_s)}$$
 (32)

$$\begin{split} G_{p} &= \frac{\mu_{s}R_{L}k}{r_{s} + Z_{k} (1 + k) (1 + \mu_{s})} \\ G_{k} &= \frac{\mu_{s}Z_{k} (1 + k) (1 + \mu_{s})}{r_{s} + Z_{k} (1 + k) (1 + \mu_{s})} \\ A &= G_{k} \left( E_{gpp} + E_{gn} \frac{R_{k}}{R_{o}} \right) - E_{gp} \\ S &= \mu_{s}E_{gpp} (1 - G_{k}) + E_{gn}G_{k} \frac{R_{k}}{R_{o}} \\ B &= G_{p}E_{gpp} + G_{k} \left( E_{gpp} + E_{gn} \frac{R_{k}}{R_{o}} \right) \\ &+ mE_{gpp} (\mu_{s} - \mu_{s}G_{k} - G_{k}) \\ Circuit 3 &= Dual output, R_{o} >> R_{k}; \\ G_{p} &= \frac{\mu_{s}Z_{L}k}{r_{s} + R_{k} (1 + k) (1 + \mu_{s})} \end{split}$$

_	$4 \mathrm{K} \; \Omega$
_	$0.667 \mathrm{K}~\Omega$
23	4
24	0.833
25	24 v.
27	70 v.
31	262 v.
32	2.5 ma
33	4 ma
_	10 ma
_	16 ma
	24 25 27 31 32

$$\begin{split} G_k &= 0 \\ A &= -E_{gp} \\ S &= \mu_s E_{gpp} \\ B &= E_{gpp} \left(G_p + m \mu_s\right) \\ Circuit 7 - Cathode follower: \\ G_p &= 0 \\ G_k &= \frac{\mu_s Z_k \left(1 + k\right)}{r_s + Z_k \left(1 + k\right) \left(1 + \mu_s\right)} \\ A &= G_k \left(E_{gpp} + E_{gn} \frac{R_k}{R_o}\right) - E_{gp} \\ S &= \mu_s E_{gpp} \left(1 - G_k\right) + E_{gn} G_k \frac{R_k}{R_o} \\ \left(Continued \ on \ page \ 130\right) \end{split}$$

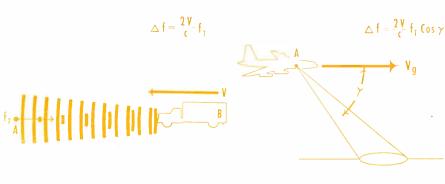


Fig. 1: Velocity of the moving truck shifts the frequency of the reflected signal.

Fig. 2: When reflection and motion are not radial, the deviation must be considered.

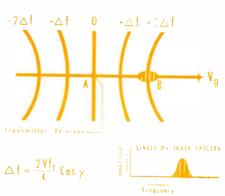


Fig. 3: Contours of equal frequency shift and spectral power density plot,  $\gamma < 90^{\circ}$ .

#### Prelude to Push-Button Flight

## Doppler Navigation Holds the Course

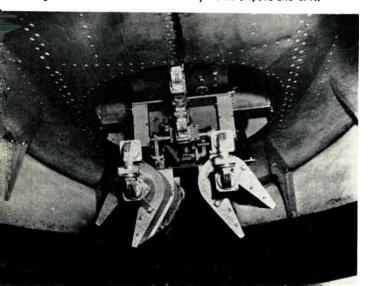
Without terrestial aid, Doppler equipment determines ground speed and drift angle. Coupled with a dead-reckoning computer and auto-pilot, aircraft automatically flies great circle route to destination while present location is presented digitally.

#### By WILLIAM J. TULL

Vice-President & Director Avionic Sales Div., General Precision Laboratory Inc., 63 Bedford Rd., Pleasantville, N. Y.



Fig. 7: First antenna to automatically measure speed and drift.



SINCE December 17, 1903, when man first flew, those who have been actively associated with aviation have at one time or another been concerned with the problem of how to determine ground speed and drift angle of an aircraft without aid from the ground. Through the years a number of devices have been proposed; most of them, however, have fallen by the wayside as time progressed. The optical drift sight has, of course, been widely used for the determination of drift angle. In addition, by double drift techniques it has been possible to determine ground speed with a drift sight.

Other self-contained means of obtaining ground speed and/or drift angle have been:

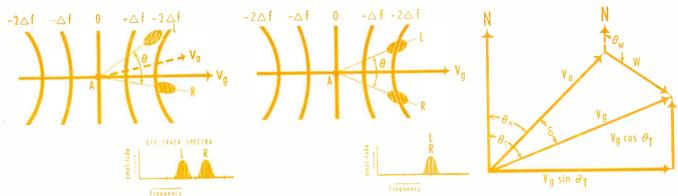


Fig. 4: Graphic presentation of 2 beams transmitted in 2 different directions.

Fig. 5: Plan view and spectral power density of 2 beams with equal  $\gamma$   $\mathcal{G}$  equal  $\theta$ .

Fig. 6: Vector presentation of continuous dead reckoning provided by radar system.

- a. Norden bombsight
- b. Radar bombsights
- c. Bellamy drift techniques
- d. Pilotage, etc.

The principal shortcomings of these devices or techniques have been that they required clear weather to see the ground, they were inoperable over water, or they lacked sufficient accuracy. Of course, many of them also call for a great deal of skill and a large amount of equipment. The Bellamy drift technique has been one of the better recent contributions to this field of naviagtion.

#### History

A new technique, which makes possible the sensing and measurement of ground speed and drift angle, utilizes what is commonly referred to as the "Doppler effect." The equipment which utilizes this phenomenon at microwave frequencies and which comprises the necessary instrumentation for its measurement is commonly referred to as Doppler radar equipment.

At the end of the war, the Air Corps undertook an active program with General Precision Laboratory (GPL) with the objective of securing a completely automatic, self-contained navigation system. As a result of this program, GPL became the first group to fly navigation equipment capable of measuring both

ground speed and drift angle automatically and accurately.

The first such flight occurred in April, 1948. We feel extremely fortunate that we were able to participate in this historic achievement.

Since that date there has been considerable progress in the evolution of Doppler equipment. This progress can perhaps best be illustrated by photographs showing the chronological development of equipment. The following figures are indicative of the advances made in the past few years.

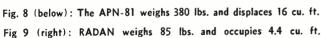
The antenna system of original GPL system number 3, which was the first system to ever measure ground speed and drift angle automatically and accurately, is shown in Fig. 1.

Fig. 2 shows the APN-81 equipment, currently in high quantity production for the USAF, which weighs 380 lbs and takes 16 cu ft of space.

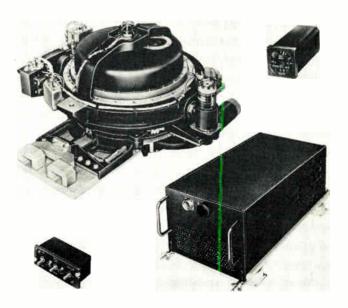
The GPL commercial RADAN model PC-201, Fig. 3, weighs 85 lbs and taking 4.4 cu ft of space. The RADAN system is currently in low quantity production. From the illustrations it is obvious that Doppler Radar equipment is now available as a practical and producible device for use on board all types of aircraft.

#### Operation

On the left in Fig. 4, we have a stationary transmitter-receiver A. The transmitter is emitting a sig-







#### Doppler Navigation (Continued)

nal at a frequency  $f_t$ . The signal is reflected from the truck B back to the receiver A. Since the truck is moving with a velocity v, there will be a Doppler shift in the frequency of the reflected signal. The equation relating the several quantities involved is shown in the upper right hand side of the figure. This equation is an expression for the difference in frequency between the signal transmitted and the signal received at location A. This difference frequency  $\Delta f$  is:

$$\Delta f = \frac{v}{c} f_t$$

The quantity c is the velocity of propagation of the electromagnetic signal.

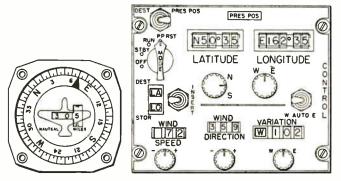


Fig. 10: The ASN-7 provides present position, course to destinations.

In Fig. 5, the transmitter-receiver A is now located in an aircraft flying over the ground. The transmitter is sending out a beam of energy from the aircraft to the ground. The beam is transmitted at an angle  $\gamma$  from the direction of the aircraft velocity vector, v. The equation relating the several quantities in this illustration is shown in the upper right hand side of the figure. The equation for the difference frequency  $\Delta f$  is in this case:

$$\Delta f = 2 \frac{v}{c} f_t \cos_* \gamma$$

It is evident from this equation that  $\Delta f$  is a measure of the velocity v, since the other quantities occurring in the right hand member of the equation are known.

It should be noticed that in this equation all energy reflected or back scattered from the ground at the angle  $\gamma$  undergoes the same Doppler frequency shift,  $\Delta f$ . Now let us draw the intersections with the ground of families of beams having constant  $\gamma$  angles. These intersections are hyperbolas, assuming a plane earth. These hyperbolas are conveniently thought of as contours of equal Doppler frequency shift.

Now let us consider Fig. 6. Here we are observers looking straight down from above on the airborne transmitter A. The transmitter is traveling in the direction indicated by the velocity vector,  $v_g$ . In the center we see the constant frequency contour for a  $\gamma$  angle of 90°. This is a zero Doppler frequency contour because in this case there is no relative velocity between the transmitter A and the ground. That is, for

 $\gamma=90^{\circ}$ , the frequency shift is  $\Delta f=0$ . The other contour lines on the illustration are for values of  $\gamma$  of magnitude less than 90°. The lines ahead of the transmitter represent the loci of echo sources having an increased frequency over those transmitted; a closing velocity between the transmitter and the ground ahead.

The contours behind the transmitter correspond to echo sources having decreased frequency from those transmitted. The transmitter has a velocity of recession from all elements of the ground behind the aircraft. Obviously the smaller the angle  $\gamma$ , the further ahead (or behind) the beam intersects the ground. Correspondingly, the smaller the value of  $\gamma$ , the greater the value of  $\Delta f$ , the Doppler frequency shift.

Now let us project a small pencil beam from the transmitter at A to the ground at B. The energy is essentially confined inside the ellipse at B. It is evident that the signals within the beam B scattered from the ground nearest the transmitter are characterized by a larger  $\gamma$  angle and a lower Doppler frequency shift than those further out. This is illustrated in the spectral power density plot in the lower right hand corner of the figure.

#### Two-Beam Operation

You will see in Fig. 7 that we once again have plotted the same constant frequency hyperbolas. However, in this case we have transmitted 2 beams of energy in 2 different directions. It can be seen that if one beam of energy is confined to the region L, that the corresponding return signal has a spectrum as shown in the diagram at the bottom of the illustration. Similarly, one can picture the spectrum corresponding to the energy from region R. Let us now maintain the angle  $\theta$  between the L and R regions constant, while the whole beam forming assembly is rotated about a vertical axis. The frequencies associated with the beams L and R will change accordingly. In Fig. 8, we see what the situation would be when the beam assembly has been rotated until the frequencies from L and R are equal. In this situation it is obvious that the bi-sector on the angle  $\theta$  lies in the direction of the velocity vector vg.

In brief then, by the measurement of the frequency  $\Delta f$ , we can determine the ground speed of an aircraft—and by servoing a 2-beam antenna system until equal Doppler frequencies are received from each, we can measure drift angle. It is also possible to deter(Continued on page 437)

Fig. 11: The AN/APA-95 computer makes easy navigator training.





#### **CANNON**

## **CONNECTORS**

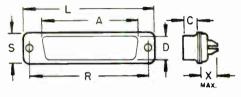
#### D SUB-MINIATURE DPA AND DPX SERIES

More than thirty years experience in the design and manufacture of standard electronic components insure Cannon Connectors by CINCH to be of the highest quality materials, fabricated to specifications to maintain consistent quality of product; highest standards throughout all operations.

**DB-25P** 



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size	A	C	D	L	R	S	X	weight
DA-15P	11/64	15/64	23/64	117/32	1.312	31/64	5/16	.013
DA-15S	13/22	15/64	5/16	117/32	1.312	31/64	5/16	.014
D8-25P	1%6	15/64	23/64	25/64	1.852	31/64	5/16	.023
DB-25S	133/64	15/64	5/16	25/64	1.852	31/64	5/16	.031
DC-37P	213/64	15/64	23/64	223/32	2.500	31/64	5/16	.035
DC-37S	211/64	15/64	5/16	223/32	2.500	31/64	5/16	.035
DD-5DP	2764	15/64	15/32	2 3/8	2.406	39/64	5/16	.035
DD-50S	25/64	15/64	2764	2 5/8	2.406	39/64	5/16	.040
DE-9P	45/64	15/64	23/64	1 13/64	.984	31/64	5/16	.011
DE-9S	41/64	15/64	5/16	11364	.984	31/64	5/16	.012

FRACTIONS +1/4 Tolerance

DECIMALS ±0.005 Tolerance

#### D SUB-MINIATURE SPECIFICATIONS:

Shell, including flange - steel or brass; Finish -Cadmium plate or Irridite. Contacts — No. 20, 5 ampere rating — Copper base alloy, gold plate finish.

Insert arrangements — 5 plus coaxials in 9, 15, 25, 37 and 50 contacts.

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Polarization — Keystone cornered shell.

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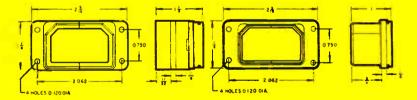


DPX 23-34P

DPX 23-335

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Manufactured by Agreement with Cannon Electric Company

Circle 76 on Inquiry Card, page 201

## WASHINGTON

#### **News Letter**

MICROWAVE HEARING -- More than 130 witnesses, representing 59 organizations, will appear at the FCC hearings on future allocations and usage of frequencies above 890 MC. Sessions before the en banc Commission commenced May 20, and are running three days a week. The first group of organizations, which testified during the week of May 20th, included the Operational Fixed Microwave Council, and the utilities and forest radio committees. During the week of May 27th, police and state highway departments' radio spokesmen presented their views. During June and July the Bell System, Western Union, Raytheon, General Electric, Collins, Westinghouse, and Motorola will present their views to help the FCC blueprint future spectrum pattern and usage policies for the all-important microwave communications services.

INTERPRETATION OF ACT - The Justice Department's antitrust division has taken a hand in the microwave deliberations. A letter from Assistant Attorney General Hansen, in charge of the antitrust division, presented a Justice Department interpretation of section 314 of the Communications Actthe section dealing with preservation of competition. Relating this section to the controversy between common carriers and private operators of microwave systems, the Justice Department letter asserted, "... we are of the opinion that by preferring common carrier (telephone and telegraph) operation of such systems competition would be distinctly lessened and monopoly encouraged in the manufacture, sale and use of communications facilities adapted to this area of service."

LONG-RANGE STUDY—General areas of inquiry have been spelled out by the FCC for its fact-finding inquiry into the present and potential uses of the 25-890 MC portion of the spectrum. Responses to various issues and problems set forth by the Commission in its order for the long-range allocations study are called for by July 1, and after they are received and analyzed a date for hearings will be fixed. Areas of inquiry cited by the FCC include sharing of ISM frequencies (industrial, scientific and medical) with communications services; evaluation of long-term requirements by all present ser-

vices; feasibility of applying new and potential techniques; potentialities of a broad band carrier system; and evaluation of impact of new techniques in spectrum conservation and equipment amortization on existing users.

WARTIME POWERS—In what is believed to be the first delegation of his wartime powers in advance of an emergency, President Eisenhower recently signed an executive order delegating wartime emergency powers over communications, radio (communications and broadcasting), and television to the Director of the Office of Defense Mobilization. The order climaxes extensive mobilization planning by government agencies, and the establishment of standby priority plans for telephone and telegraph services. ODM "will continue to work in close touch with the radio, television, telephone and telegraph industries in formulating defense emergency plans," the President's order stated.

DELAY FEE-TV ACTION—The FCC has been aided in its own desired approach to the troublesome problem of subscription television by the action of two leading members of Congress, both chairmen of House Committees which are highly influential in regard to questions like fee-TV. They have urged the Commission to hold off any subscription-TV decision until Congress considers the entire issue. The two Congressmen—Representative Celler (D-N. Y.) who heads the House Judiciary Committee and Representative Harris (D-Ark.) who is chairman of the House Interstate and Foreign Commerce Committee which handles FCC matters—wrote the FCC to withhold action on subscription-TV tests until Congress has studied the proposed service. Rep. Harris indicated his view that the FCC does not have the power to order tests. Meanwhile, a most potent sector of public opinion—the labor unions—are opposed to subscription television. AFL-CIO President George Meany has notified the FCC that the labor organization's executive committee has adopted a resolution opposing the service.

National Press Building Washington 4

ROLAND C. DAVIES
Washington Editor

## ... for the Design Engineer

#### COMPUTER TRIODE

A medium-mu twin triode (RCA-6350) of the 9-pin miniature type, designed for use in a wide variety of applications in electronic computers of the high-speed digital type, and

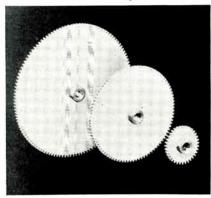


other "on-off" control equipment is available. The 6350 maintains its emission capabilities even after long periods of operation under cut-off conditions. Balance of cut-off bias between the two units of the tube is closely controlled during manufacture. It has separate terminals for each cathode and a mid-tapped heater for a 6.3-volt or 12.6-volt supply. R.C.A., Harrison, N. J.

Circle 77 on Inquiry Card, page 201

#### PRECISION GEARS

Precision gears especially suitable for servomechanism use are now available. Spur, spring and clutch gears, and bevel and miter gears are among the types available. In stock for immediate delivery are 48 and 64 pitch spur gears, in tooth multiples of 8 and 10. Made-to-order spur gears are available in 32, 48, 64 and 96 pitches. Gears with pitch diameter

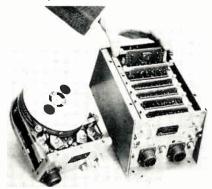


of 1 in. or less are stainless steel, over 1 in. are aluminum with stainless steel insert hubs. All gears are made to AGMA Precision Class 2 standards. Beckman/Helipot Corp., Newport Beach, Calif.

Circle 78 on Inquiry Card, page 201

#### MIDGET TAPE RECORDER

A complete automatic miniature recorder-playback system for data acquisition during missile flight has been introduced. Model 600 automatically records 2 tracks of IRIG



FM/FM subcarrier signals from 200 to 100,000 cps for a preset period ranging up to 250 sec. Application of a second signal causes it to play all recorded data backwards and then stop. A successive signal repeats the cycle, erasing all previous data before recording. System weighs 21½ lb., and is small enough for mounting in the missile. Minneapolis-Honeywell, Davies Labs. Div., Beltsville, Md.

Circle 79 on Inquiry Card, page 201

#### PHASE STANDARD

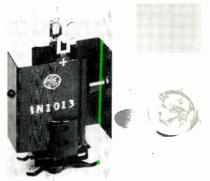
Designed for calibrating phase meters and other phase measuring instruments, it can also be used with an oscilloscope to measure the phase shift in electronic circuits or to calibrate precision phase shifters. It converts externally supplied signal (20 cps to 20 KC) into 2 sinusoidal signals whose phase relationship can be varied from 0° to 360° in 4 revolutions



of a single control. Phase angle accuracy is ±1° from 20 CPS to 10 KC; ±3° from 10 to 20 KC. The output varies less than ±2% with phase shift. Has self-contained power supply. Acton Labs., Inc., Acton, Mass. Circle 80 on Inquiry Card, page 201

#### **GERMANIUM RECTIFIERS**

The 4 rectifiers comprising the new germanium line are RETMA type 1N1005, 1N1007, 1N1008 and 1N1013. The 1N1005, 1N1007, and 1N1008 are half wave rectifiers capable of 250,



350, and 400 ma. dc output respectively. Type 1N1013 is 2 rectifiers connected as a voltage doubler and has a dc output rating of 250 ma. Peak inverse voltage rating for the 4 rectifiers is 380 v. All are designed to be used with a 4  $\Omega$  series surge resistor. Ambient operating temperature rating is 55°C. Operating fin temperature of 65°C. General Electric Co., Syracuse, N. Y.

Circle 81 on Inquiry Card, page 201

#### MINIATURE ELECTROLYTICS

A new line of low-cost subminiature aluminum cased electrolytic capacitors, known as the TT line. These tiny capacitors are ideal for new circuit designs requiring dependable components and miniaturization. The line is available in over 30 capacity and voltage ratings from 1 to 110 mfd. and from 1 to 50 v. The smallest unit is 3/16 in. dia., ½ in. long.

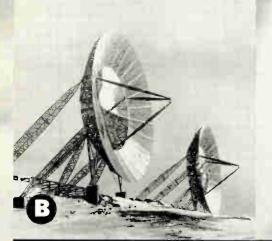


The case uses silicone rubber hermetic seals. The leads are 1% in. long, and available with insulating sleeves. They have an operating temperature range of -20 to 65°C. P. R. Mallory & Co., Inc., Indianapolis, Ind.

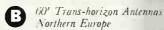
Circle 82 on Inquiry Card, page 201

## **ANTENNA PROBLEMS?**

# Ask Kennedy!



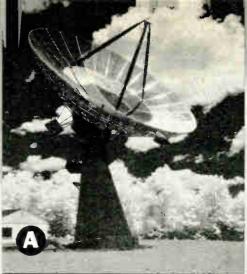


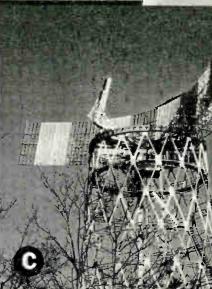


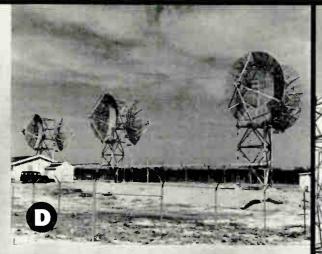
G 120' Radar Antenna Maine

28' Trans-horizon Antennas Cape Cod

28' Trans-horizon Antenna Texas Tower







he solution to antenna problems begins when someone says: "Let's ask Kennedy!"

A few of the many reasons why are shown on this page. These Kennedy antennas are setting new standards for all-weather reliability and versatility wherever they serve throughout the free world.

Kennedy antennas come in many shapes, many sizes (the world's largest scatter antenna is being built here). But whatever the type, and whatever the conditions under which it must serve. Kennedy can offer a design that fully measures up to specifications. And there are additional advantages in Kennedy's advanced construction techniques—like the extra ease in shipping and handling made possible by sectionalized aluminum construction, for example.

Kennedy engineers are available to supervise installations anywhere in the world. It's a part of the complete, integrated service that is still another reason why more and more people in communications are "asking Kennedy" about antenna problems.

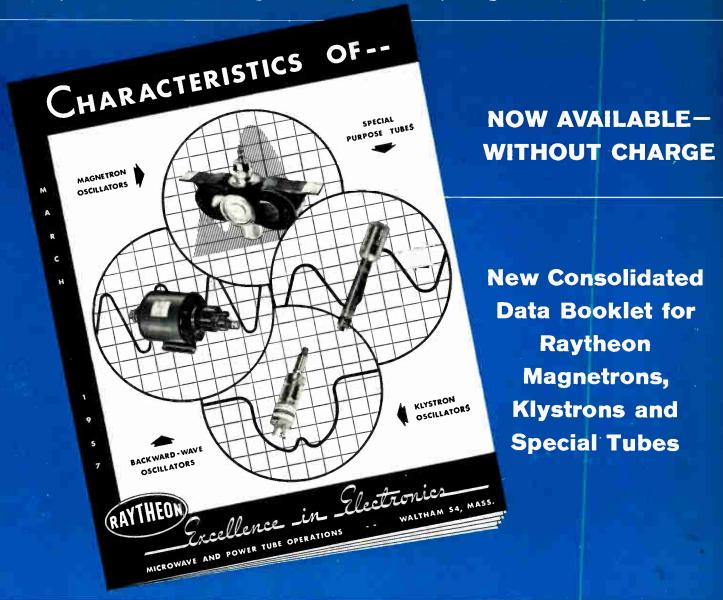
Down-To-Earth SOLUTIONS to
Out-Of-This-World PROBLEMS





Tracking Antennas Radio Telescopes Radar Antennas Tropospheric Scatter Ionospheric Scatter

Circle 83 on Inquiry Card, page 201





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Circle 111 on Inquiry Card, page 201

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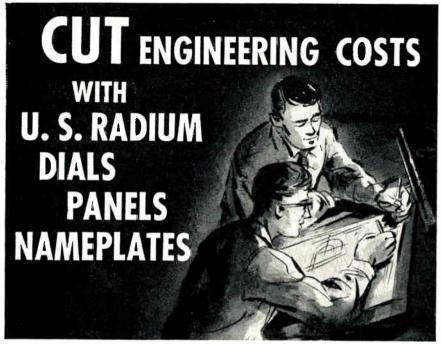
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#### Supply Voltages

(Continued from page 119)

$$B = G_k \left( E_{gpp} + E_{gn} \frac{R_k}{R_o} \right)$$

+ mE<sub>gpp</sub>  $(\mu_s - \mu_s G_k - G_k)$ 

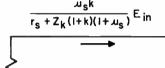
Circuit 8—Cathode follower, Ro >>  $R_k$ :

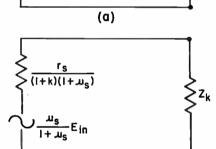
$$G_{p} = 0$$

$$G_{k} = \frac{\mu_{s}R_{k} (1 + k)}{r_{s} + R_{k} (1 + k) (1 + \mu_{s})}$$

$$A = E_{gpp}G_{k} - E_{gp}$$

$$S = \mu_{s}E_{gpp} (1 - G_{k})$$





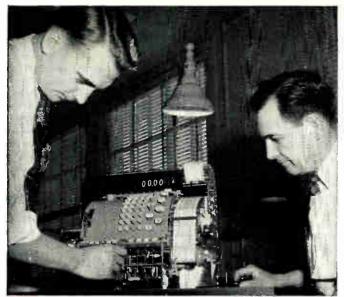
(b) Fig. 7: Equivalent circuits for plate load (a) and cathode load (b) impedances

 $B = E_{\rm gpp}G_k + mE_{\rm gpp} (\mu_s - \mu_sG_k - G_k)$ Circuit 9-"Grounded" cathode, cathode resistor bias:

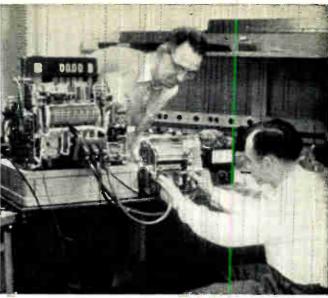
$$\begin{split} G_{\mathrm{p}} &= \frac{\mu_{\mathrm{g}} Z_{\mathrm{L}} k}{r_{\mathrm{s}}} \\ G_{k} &= 0 \\ A &= 0 \\ R_{k} &= \frac{E_{\mathrm{gp}} r_{\mathrm{s}}}{E_{\mathrm{gn}} \mu_{\mathrm{s}} \left(1 + k\right)} \\ S &= E_{\mathrm{gp}} + \mu_{\mathrm{s}} E_{\mathrm{gpp}} \\ B &= E_{\mathrm{gp}} + m \mu_{\mathrm{s}} E_{\mathrm{gpp}} \\ &+ G_{\mathrm{p}} \left(E_{\mathrm{gpp}} + E_{\mathrm{gn}} \frac{R_{\mathrm{L}}}{R_{\mathrm{s}}}\right) \end{split}$$

Circuit 10-"Grounded" eathode, eathode resistor bias,  $R_g >> R_L$ :

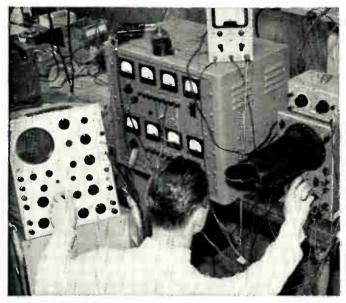
$$G_{\rm p} = \frac{\mu_{\rm s}R_{\rm L}k}{r_{\rm s}}$$
 
$$G_{\rm k} = 0$$
 
$$\Lambda = 0$$
 
$$R_{\rm k} = \frac{E_{\rm gp}r_{\rm s}}{E_{\rm gn}\mu_{\rm s}\left(1+k\right)}$$
 
$$S = E_{\rm gp} + \mu_{\rm s}E_{\rm gpp}$$
 
$$B = E_{\rm gp} + E_{\rm gpp}\left(G_{\rm p} + m\mu_{\rm s}\right)$$



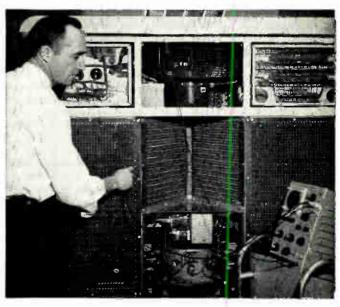
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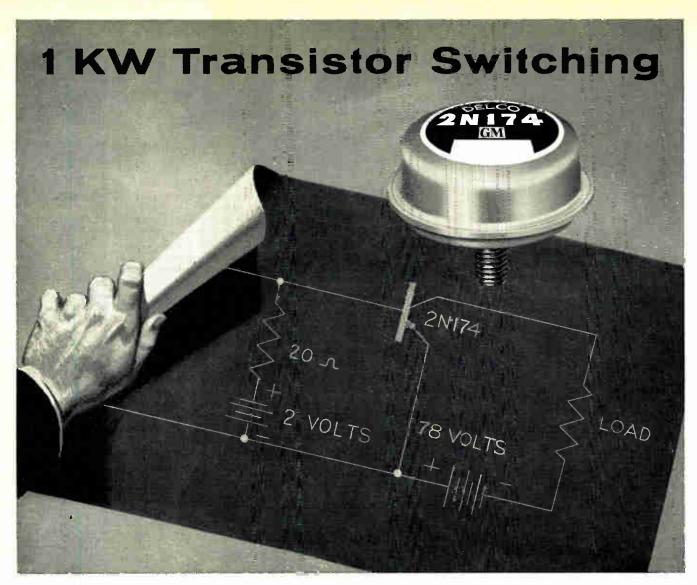
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This switching performance is possible because of the excellent electrical characteristics of the 2N174; in particular, the high collector breakdown voltage, extremely high maximum collector current, and very low input impedance.

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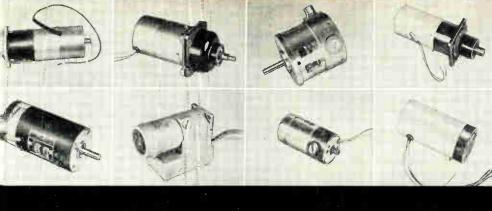
regardless of age, are currently being produced by the thousands every day. Write for engineering data.

Power Switching Characteristics					
Switching Power	1000 watts				
Current in "on" position	13 amperes				
Input Control Power	1 watt				
Power Gain	30 db				
Dissipation in "on" position	8 watts				
Switching time	60 microseconds				

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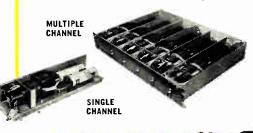
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Transistorized D.C. voltage regulator employing series power transistor and temperature compensated Zener diode reference voltage. Input voltage is 27.5 V.D.C. plus or minus 15%. Model 7VR09 output is 20 V.D.C. at 50 to 250 MA; Model 7VR08 20 V.D.C. at 10 to 150 MA. Regulation less than plus or minus .1% for combined variations of input voltage, load current, temperature, drift and vibration. Shunt loss is less than 25 MA. Temperature range from 32°F. to 150°F. Measures 2" x 2" x 2".

Model 7P01 single or multiple channel strain gage power supply, 115 V., 60 cycle input, 10 V.D.C. output, adjustable from 9-11 V.D.C. with a 10-turn potentiometer. Output voltage changes less than plus or minus .05% due to temperature change from 0 to 45°C.; output voltage changes less than .1% due to 2% change in load current. Output ripple is less than 300 microvolts RMS. isolated from ground as follows: insulation resistance to ground, 10,000 megohms; AC pickup voltage to ground, 5 microvolts peak.



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## New Tech Data

#### **Power Supplies**

A new brochure illustrating and describing 3 power supplies in the laboratory instrument line has just been published by the Burroughs Corp., 1209 Vine St., Phila. 7, Pa. The 4-page brochure contains photographs and complete specifications. Supplies 8 standard voltage outputs, both positive and negative, from +400 dc to -400 dc and a current range from 2 ma. to 6 a. Regulation is better than  $\pm 5\%$ .

Circle 118 on Inquiry Card, page 201

#### **Mercury-Lamp Transformers**

Four pages give application, price and dimension data, wiring diagrams, as well as new catalog numbers on mercury lamp transformers and reactors for 120 to 480 v. operations, 60 cycles, high and low power factor and a variety of construction types. General Electric Co., Schenectady 5, N. Y. Circle 119 on Inquiry Card, page 201

#### **Thermistor**

A new 10-page bulletin on Glenite thermistors is announced by the Thermistor Div., Gulton Industries, Inc., Metuchen, New Jersey. Listing typical applications in circuitry, the new catalog gives specifications and characteristics of wafer, rod and bead thermistors. Each type is illustrated with diagrams and charts indicating models and the corresponding characteristics and size. Included is a table showing the resistance ratio vs. temperature to compute thermistor resistance at specified temperatures.

Circle 120 on Inquiry Card, page 207

#### **Electronic Relays**

Electronic relays, open and hermetically sealed, are described in a new 8-page engineering bulletin published by the RBM Div., Essex Wire Corp., Logansport, Ind. Complete information on application, construction and engineering, specifications is presented in concise outline form.

Circle 121 on Inquiry Card, page 201

#### Shielding Enclosures

A new 6-page brochure discussing universal shielding enclosures has been issued by Shielding, Inc., Riverton, N. J. Many photographs, charts and graphs illustrate the features and characteristics of the universal enclosure for suppressing r-f inter-ference. Catalog gives typical en-closure sizes, performance data and discusses shielding materials available. Also listed are typical applications and available accessories.

Circle 122 on Inguiry Card page 201

#### **Klystron**

Varian Associates, 611 Hansen Way, Palo Alto, Calif., have just issued a 16-page booklet describing their complete line of klystrons. This booklet is complete with photographs, specifications, applications, charts and a complete listing of klystrons.

Circle 123 on Inquiry Card, page 201

#### **Special Glass**

A new brochure, "New Developments in Corning Fotoform Glass," is now available. Fully illustrated, the brochure gives detailed information of the 4 types of Fotoform glass: how they are made, how they differ, their specific and potential uses and design and production data on each one. Latest mechanical and electrical applications of the glass in the electronics and allied industries are reviewed. Electrical Products Div., Corning Glass Works, Corning, N. Y. Circle 124 on Inquiry Card, page 201

#### **Tape Wound Cores**

A 28-page booklet describes in great detail, the advantages and construction of performance guaranteed tape wound cores. Brochure is complete with tables, graphs, photographs and design engineering information. Magnetics, Inc., Butler, Pa.

Circle 125 on Inquiry Card, page 201

#### Instrument Transformers

New Instrument Transformer 1957 Buyer's Guide contains price and product information on a complete instrument transformer line. Booklet contains photographs and all required specifications. Specific types of transformers are quite readily located in this booklet which is issued by the General Electric Co., Schenectady 5,

Circle 126 on Inquiry Card, page 201

#### Wire Wound Resistors

A 12-page booklet, issued by the International Resistance Co., 401 N. Broad Street, Phila. 8, Pa., gives comprehensive data on construction characteristics, coating, winding insulation identification, mechanical strength, terminals and brackets for tubular and flat power wire wound resistors.

Circle 127 on Inquiry Card, page 201

#### **Electromechanical Parts**

Catalog No. 575, issued by Beckman/Helipot Corp., Newport Beach, Calif., is a 24-page booklet that describes their line of "breadboard" electromechanical experimental parts. Booklet is complete with photographs, drawings, prices and easy-to-understand descriptions.

Circle 128 on Inquiry Card, page 201

#### for Engineers

#### **Printed Circuit Laminates**

A new booklet entitled "Westinghouse Copper-Clad Micarata Plastic Laminate For Printed Circuits" is available. The booklet, illustrated with photographs and diagrams, discusses what printed circuits are, the advantages to be gained and their use, the construction and properties the laminate. A complete data sheet for all the copper-clad laminate types is included. Westinghouse Elec-tric Corp., P. O. Box 2099, Pittsburgh 30, Pa.

Circle 129 on Inquiry Card, page 201

#### Reliability Handbook

Inland Testing Laboratories, Cook Technological Center, Morton Grove, Ill., has issued a 52-page book entitled "The Handbook of Electronic Parts Reliability Program—A Detailed Systematic Approach." The book gives a detailed presentation discussing test procedures, sampling plans, data analysis, and program financing for parts reliability.

Circle 130 on Inquiry Card, page 201

#### **Navigational Computer**

A 24-page, 2-color booklet describes the ASN-7 self-contained navigational computer. This brochure is planned to acquaint the reader with what it is, how it operates and its advantages not only to the pilot, but to management and design groups of aircraft manufacturers, ground control centers and the armed services. Computer was designed under the direction of Wright Air Development Center, Ford Instrument Co., Div. of Sperry Rand Corp., 31-10 Thomson Ave., Long Island City 1, N. Y.

Circle 131 on Inquiry Card, page 201

#### Automatic Programming

The Ampex Corp., 934 Charter St., Redwood City, Calif., has issued a 2-page bulletin describing their model 355 integrator for automatic programming systems. This system may be used for AM, FM or TV broadcasting. It can be set to cover any block of time completely and automatically. Circle 132 on Inquiry Card, page 201

#### **Metal Chassis**

The California Chassis Co., 5445 E. Century Blvd., Lynwood, Calif., has issued a 20-page 2-color catalog describing a complete rack line, including cabinet, desk, multi-racks, chassis items such as aluminum and steel types, including removable types and various accessory such as louvers, covers, roller trucks, truck casters, support angles, mounting brackets, flanges, carry cases and many others. Circle 133 on Inquiry Card, page 201

(Continued on Page 178)

## you can't match Resident model 630 VOM



heavy molded case

-1/4" thick for high impact. Fully insulated.

#### sure grip battery contacts

Balanced double-spring tension grip assures permanent contact.

"this wide-range model

tests AC-DC Volts (DC at 20,000 O/V); DC Microamperes, Milliamperes, and Amperes; Ohms (to 100 Megohms); Decibel and Output. Its easy-to-read scales are the longest in this type tester."



streamined design

No protruding knobs on swirch or ohms control-both are flush with the panel.

#### king sere recessed knob

—Only one switch; (fully enclosed) selects both circuit and range. Just turn the switch and make your reading.

#### for quick positive condections

for convenience

ne reading

easy reading

-Banana jacks and plugs on test leads are best. Alligator clips are provided to slip on test prods for extra convenience.

-Available as an extra (only

50c), this special stand tilts

meter at best angle for

#### for most efficient meter use

-With every Model 630 you receive complete, simplified instructions on how to use and maintain most efficiently.

Four rubber feet furnished

#### no slip feature

as standard equipment fit in back of the case to prevent slipping on smooth surfaces.

MODEL 630 \$4450

#### advanced engineering

-Molded mounting for resistors and shunts allow direct connections without cabling. No chance for shorts. Longer life and easy-toreplace resistors in their marked positions.

TRIPLETT ELECTRICAL INSTRUMENT CO.

Eluffton, Ohio





















for fact business Name and Address of the Owner,

The Property

310 Ou Sealest Company 4-014 630-1

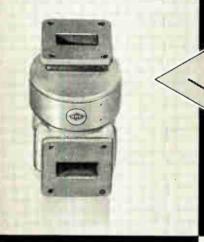
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625-NA the feet to 0 = Wile 10,000 District AS

## ROTARY JOINTS

These are just a few of the hundreds of rotating joints that have established NRK as the No. 1 source for such assemblies. Whatever your need for radar or microwave components, you will find at NRK complete facilities and matchless experience for designing and manufacture.







Microwave Assemblies, Radar Components and Precision Instruments . . . manufactured and designed to your specifications.

#### N.R.K. MFG. & ENGINEERING CO.

4601 W. Addison St., Chicago 41, Illinois

Eastern Sales Office
Bax 445, Westfield, N. J.
West Caast Representatives
Bray and Carter
2232 W. 11th St., Las Angeles 6, Cal.



#### "HELPR"

(Continued from page 109)

#### Need

Need for such a program has long been felt by manufacturers of electronic equipment, and recent demands for increased reliability of missiles and aircraft have intensified the need. military are putting more and more responsibility for systems on prime contractors, who must use great care in testing and selecting components. MIL specs originally intended to guide designers have become outmoded by recent developments. New extremes of environment are being met as our military and industrial technology races ahead

Electronic industries are now spending an estimated \$50 million annually for component qualification testing—and a large portion of this is duplicated effort. The HELPR program would eliminate much of this waste effort and free company facilities for special tests. A tremendous saving of time, money, and manpower could result.

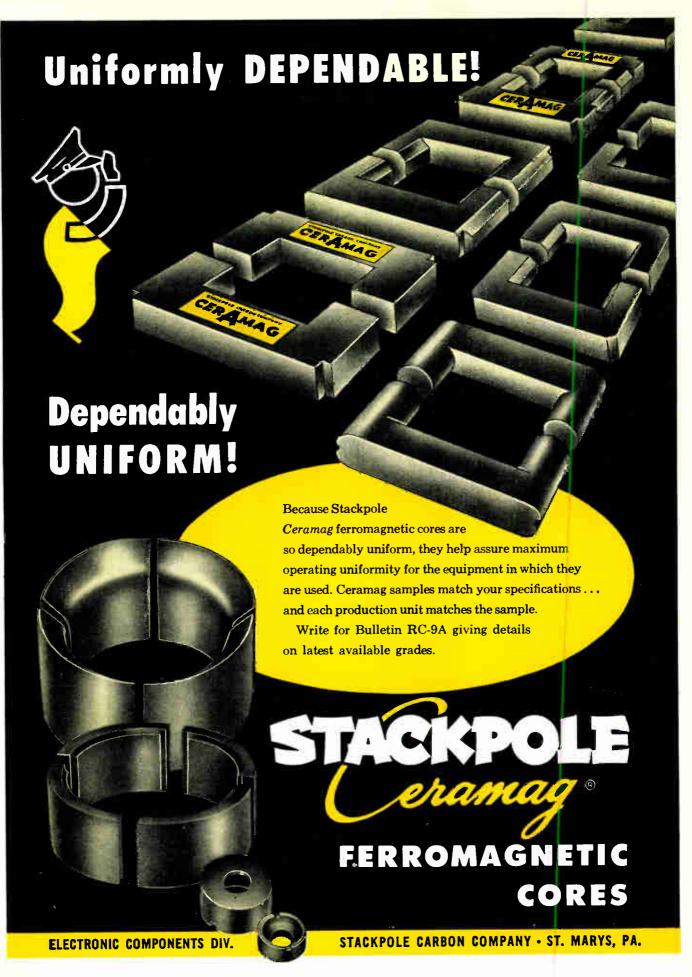
#### Typical Test

The magnitude of the proposed test program is indicated by a study of one typical test. Tests of ½ watt, fixed composition resistors, style RC20, from Specification MIL-R-11B, would start with a screening evaluation of 360 specimens from each component manufacturer (three times the number required by MIL-R-11B).

The screening tests would serve two purposes. They would eliminate all but the most reliable components for further reliability testing, and they would help determine what tests would be most valuable in the succeeding reliability testing program.

The reliability tests themselves, requiring up to 60 weeks to complete, would involve a total of 5100 samples from each qualified manufacturer. Tests would include thermal, mechanical, and electrical evaluations, and each set of test data would be measured by digital meters and recorded automatically on punch cards. The combination of automation and computer techniques would reduce time and elim-

(Continued on page 138)





## OF LOW COST RESE CLOSED CIRCUIT TV FOR YOUR ORGANIZATION?

Lower production costs, improved quality control and inspection, smoother traffic flow, less labor waste, better safety conditions are just a few of the benefits offered by B-T industrial TV products.

The B-T Observer TV camera offers effective closed circuit television at low cost. Now, with the exclusive B-T AUTOMATIC LIGHT COMPENSATOR, the camera operation is rendered completely automatic further broadening its scope in industrial applications.

The Automatic Light Compensator automatically handles light variations as great as 150 times, i.e., 5 to 750 foot candles or vice versa. Despite wide and frequent changes in light intensity at the subject, it is now possible to observe a constantly clear, well-defined image on the viewing screen. This eliminates the need for manual or remote adjustment of lens iris or camera controls.

B-T industrial TV extends the range of your vision beyond your office, or lab to remote, hazardous or inaccessible locations. Here are some industrial TV systems, now in operation, using the B-T Observer:

- A textile manufacturer links the design and embroidery machine department located on different floors for quality and process control.
- A Pennsylvania steel mill watches furnace and rolling operations. Exclusive B-T Automatic Light Compensator overcame problem of sharp changes in light intensity at the subject.
- A midwestern cement manufacturer checks composition and flow of slurry into a kiln, preventing costly damage due to congestion. Saves \$36.00 a day in manpower and material.
- A lumber company prevents log jam damage, also identifies wood types (proof of the clarity of the TV picture) by observing the bark structure.
- A Los Angeles utility has a multi-camera setup for flame control.

A complete industrial TV system - B-T Observer TV camera, with f1.9 lens, B-T Automatic Light Compensator, one monitor (receiver), and cable - can be installed, ready to operate for under \$2,500.

There's a qualified B-T distributor in your area with complete engineering facilities to serve your specific needs. For further information write to Dept. TT-6.



#### BLONDER-TONGUE LABORATORIES, INC.

9-25 Alling Street Newark 2, N.J.
The largest manufacturer of TV Signal Amplifiers, UHF Converters and Master TV Systems

(Continued from page 136)

inate human variables, and also make it possible to send subscribers a summary of test results each thirty days, instead of waiting for final results on completion of the tests. Data would include failure rate and a correlation of failure rates under different operating conditions; drift, and a correlation of drifts under different operating conditions; and an analysis of failed components to determine the modes and causes of failure.

The HELPR program was introduced at the Third National Symposium on Reliability and Quality Control in Washington, D. C. It was proposed as a supplement to the individual test capability of subscribing companies—it would provide a fund of basic data as a starting point, enabling each individual company to concentrate its own test facilities on additional data for its specific applications.

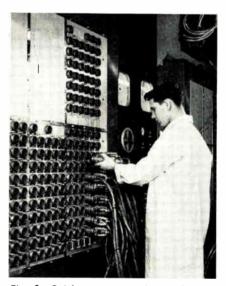


Fig. 2: Quick-connect panels speed tests.

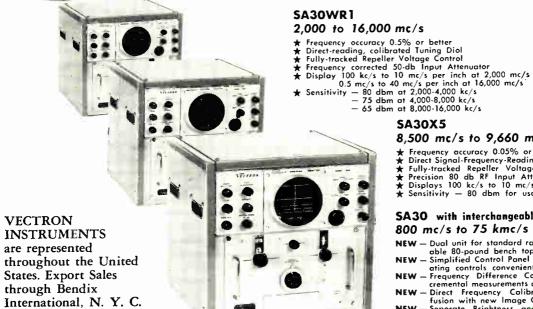
#### Subscriptions

Charter subscribers are being recruited at present. The program can begin with approximately 40 one-year subscriptions at \$25,000 each. A complete description of the program and the test facilities at Inland Testing Laboratories is contained in "The Handbook of Electronic Parts Reliability Program, A Detailed Systematic Approach." Manufacturers interested in the program can obtain the information from Inland Testing Laboratories, Cook Technological Center, 6401 W. Oakton St., Morton Grove, Illinois.



## NEW VECTRON MICROWAVE SPECTRUM ANALYZERS

To determine power and frequency distribution of pulsed and CW microwave signals.



#### 2,000 to 16,000 mc/s

#### 8,500 mc/s to 9,660 mc/s

- ★ Frequency accuracy 0.05% or better
  ★ Direct Signal-Frequency-Reading Wavemeter
  ★ Fully-tracked Repeller Voltage Control
  ★ Precision 80 db RF Input Attenuator
  ★ Displays 100 kc/s to 10 mc/s per inch
  ★ Sensitivity 80 dbm for usable signal

#### SA30 with interchangeable RF heads 800 mc/s to 75 kmc/s

- NEW Dual unit for standard rack mounting or portable 80-pound bench top package

  NEW Simplified Control Panel with necessary operating controls conveniently available

  NEW Frequency Difference Control for direct incremental measurements at 100 kc/s to 5 mc/s

  NEW Direct Frequency Calibration without confusion with new Image Check feature

  NEW Seporate Brightness and Intensity Controls for displayed signal and baseline

  NEW All aluminum construction for lighter weight and easier transport

#### CONTRACT MANUFACTURING



Write for complete data.

#### **GROUND POSITION INDICATOR** COMPUTER

Custom designed and manufactured by Vectron to solve navigational vector problems. Input information includes air m.p.h., compass heading, deviation, wind direction and velocity. Output is read directly as N-S and E-W components. Additional electro-mechanical circuits permit establishment of secondary flight pattern over target.

Vectron's precision manufacturing facilities are available to meet your needs for dependable contract, sub-contract or custom manufacture, with or without design engineering. Send us your next quotation request or ask for a copy of our contract manufacturing facilities brochure.

#### PRODUCT DEVELOPMENT

Vectron's team of mechanical, electromechanical and electronic engineers will work from your prints or basic research, to develop and prototype your product.

#### DESIGN FOR PRODUCTION

Vectron's engineering and production specialists can make necessary design improvements and modifications to assure efficient production, consistent with sound engineering and quality control.

#### **PRODUCTION**

Vectron's complete facilities, skilled personnel, precision machine tools, careful production planning and thorough quality control with proper testing equipment assure the highest standards of fabrication and assembly.

#### MINIATURIZED SPHERE RESOLVER



requires less than 5 in/oz input for 1 to 2 in/oz from the sine and cosine output shafts. It is 11/2" square with a body block only 21/6" long.

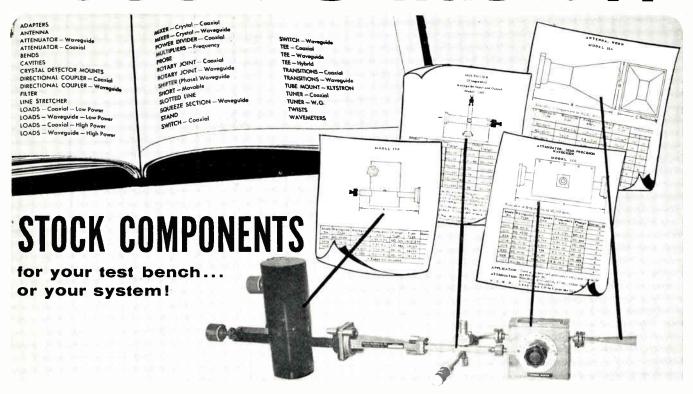
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ECTRON, inc. Electronic and Electro-Mechanical Equipment

1611 TRAPELO ROAD WALTHAM 54, MASS.

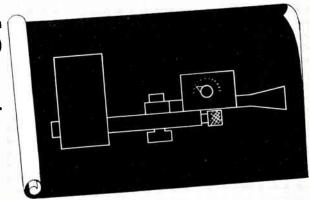
## If it's "MICROWAVE" DOUGLAS has it!!



## SPECIAL DESIGNS

manufactured to your specifications....

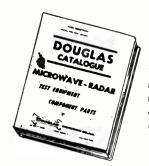
or



produced from your blue prints

June 1957

Your inquiry is invited for design, development and production of MICRO WAVE-RADAR component parts and test equipment in the frequency range of 100-90,000 megacycles.

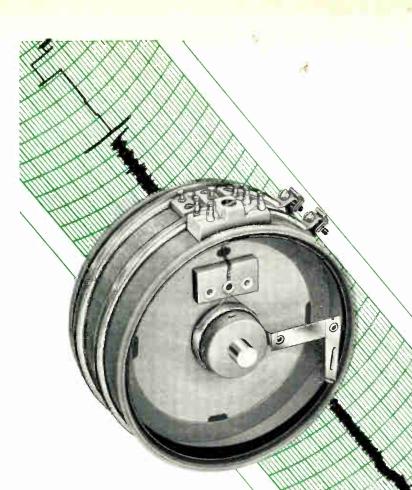


WRITE TODAY for your copy of the Douglas Catalog featuring more than 1000 standard unwired components in stock — more than any other source in the field.

## **D**ouglas

MICROWAVE CO., Inc.

252 East Third St., Mt. Vernon, N. Y. MOunt Vernon 8-6900



What goes on inside the potentiometers you buy? The working parts look simple enough — but only rigid testing can predict how they will perform in service. Fairchild's comprehensive quality control program assures you of dependable performance. At the left, a typical continuous recorder trace shows how the linearity of Fairchild potentiometers is verified. Every Fairchild unit is also tested for noise, voltage breakdown and total resistance. And every type is completely tested in our own environmental testing laboratories.

#### LOWEST ULTIMATE COST

How potentiometer and system costs depend on performance

The lowest ultimate cost of your electronic system can hinge on your selection of reliable potentiometers from a dependable manufacturer. You want to design the system to take full advantage of the potentiometer's capabilities. But you can't do this if potentiometer performance is variable. Consistent performance means meeting your specifications, whether you're buying samples or production quantities. It also means standing up to the environmental and life factors of your application.

Reliability is the key to lowest ultimate cost and you can only get that with quality design, manufacturing skill and quality control.

That's why Fairchild insists on incoming materials inspection, sub-assembly and final inspection, plus performance testing, and environmental testing to destruction of random samples. Thus, no matter what factors govern your choice of potentiometers, you'll find the lowest ultimate cost in Fairchild's complete line.

Write for catalog to Dept. 140-84E, Fairchild Controls Corporation, Components Division:

EAST COAST 225 Park Avenue Hicksville, L. I., N. Y. WEST COAST
6111 E. Washington Blvd.
Los Angeles, Calif.



## New IRC Dual Diodes

New answer to the bulk, higher cost, and assembly problems of vacuum tube diodes in law current applications.

- featuring balanced miniature selenium cells with law shunt capacitance and high back resistance to 25 valts
- excellent stability and reliability over wide temperature range and environmental canditions
- lang life
- ecanamical

Expanded line of axial lead resistors affering wider ranges, higher aperating temperatures and easier assembly at lower cost.

- now available in 5, 7 and 10 wath
- e leads automatically secured to element for maximum terminal security
- sturdy rectangular ceramic case with special IRC insulating cement

Power Resistor Line

New IRC
Distributed
Parameter
Delay Lines

A campact, mare uniform praduct for time delays of less than 1.0 microsecand at impedance levels af 4000 ohms ar less.

- designed for mass production in a continuous process
- featuring high stability and uniform characteristics
- ecanomical

New IRC Hermetic Sealing Terminals



Superiar hermetic sealing and insulating performance in miniature units meeting a wide variety of space, electrical, and terminotian requirements.

- four body designs and six lead types
- excellent resistance to thermal shack, zero water
   obsorption, physically taugh, will not crack or craze.
- special fluorocarbon plastic bady with superior electrical and mechanical characteristics

## DESIGN AND COST PROBLEMS



Insulated Composition Resistors • Deposited Corbon Precistors • Attenuators • Power Resistors • Voltmeter Multipliers • Ultra HF and Hi-Voltage Resistors

#### Wherever the Circuit Says-

Low Wattage Wire Wounds • Resistance Strips and Discs • Selenium Rectifiers and Diodes • Hermetic Sealing Terminals • Insulated Chokes • Precision Wire Wounds • Potentiometers



IRC PLANTS—Asheville, N.C. • Boone, N.C.

Burlington, Iowa • Philadelphia, Pa.

Hycor Division, Sylmar, California

Circuit Instruments Inc., St. Petersburg, Fla. (subsidiary)

Hycor Company, Inc., Vega Baja, P.R. (subsidiary)

#### INTERNATIONAL RESISTANCE COMPANY

City\_

Dept. 582, 401 N. Broad St., Philadelphia 8, Pa.

In Canada: International Resistance Co., Ltd., Toronto, Licensee

Send complete information on Selenium Dual Diodes, Delay Lines,
Hermetic Sealing Terminals, Power Resistors, Molded Deposited

Carbon Resistors, BW Wire Wound Resistors

Name

Company

Circle 142 on Inquiry Card, page 201

#### **NEW**

hot-molded composition

## ariable Resistors

for high temperature applications

The new Type K Allen-Bradley variable resistor was developed primarily for use in high operating temperatures-so common in military applications. For the first time, a variable resistor is available with a conservative rating of 2 watts, operating in 100°C ambient temperatures, as the graph below shows. However, the new Type K control performs reliably at a temperature of 150°C—under "no load" conditions . . . while at temperatures of 70°C, it is ultraconservatively rated at 3 watts.

The new Type K control has all the features of the old reliable workhorse—the Type J Bradleyometer. With the hot-molded resistance type element, control is smooth and without abrupt resistance changes, and "noise" characteristics are extremely low, even after long use. Send for Bulletin 5200A.

Allen-Bradley Co. 1342 S. Second St., Milwaukee 4, Wis. In Canada—Allen-Bradley Canada Ltd. Galt, Ont.



available in resistance values up ta 5 megahms.

Type K single unit with shart shaft and lack-type bushing.



Type K triple unit cantral with plain shart shaft.



with cancentric shafts.

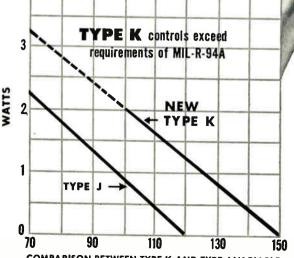


Type K dual element cantral Type K single unit variable with 125 v line switch. resistar with lang shaft.



ALLEN-BRAD





COMPARISON BETWEEN TYPE K AND TYPE J VARIABLE RESISTOR POWER RATINGS VS. AMBIENT TEMPERATURE

## New **Products**

#### **POWER RESISTOR**

Dalohm RSE type resistors now include 5 wattage ratings from 2 to 10 w. in 7 various sizes, with resistance range of .5 ohm to 175 K ohm, depending on size and tolerance. Pre-

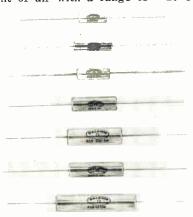


cision tolerances are 0.05%, 0.1%, 0.25%, 0.5%, 1% and 3%. Resistor is wire wound. The resistor element is surrounded by a resilient material and inserted into the protective brass tubing. Shock absorbing material completely protects the element. Applicable types conform to MIL SPEC MIL-R-26-C. Maximum operating temperature is 275°C. Dale Products, Inc., Columbus, Neb.

Circle 219 on Inquiry Card, page 201

#### **TEMPERATURE PROBES**

A new series of temperature probes have been designed to measure temperature for diverse applications. The S-100 series probes incorporate thermistors mounted in probes which can be used with temperature bridge or recorder. Model S-101 is a wafer type thermistor used for liquid oxygen. Model S-102 is designed for measurement of air with a range of -20°C



+100°C. The S-105 thermistor probe is designed to determine temperature changes of electronic components in guided missiles. Gulton Industries, 212 Durham Avenue, Metuchen, N. J.

Circle 220 on Inquiry Card, page 201



(This we guarantee!)

SOME OF THE AREAS in which exacting control and in-process inspection are applied follow:

- 1) Master Drawing through printing:
- (a) Best camera and photo composing equipment available to the industry.
- Extensive use of plate glass photographic masters instead of film to avoid dimensional change caused by temperature and humidity changes.
- Temperature and humidity controlled printing areas.
- (d) All printing operations checked with glass masters for maximum accuracy.
- 2) Plating and Etching
  - (a) Control laboratory checks solutions daily. (b) Ease of solderability assured by maintaining
  - chemical cleanliness and plating purity.

    (c) Daily humidity chamber testing to insure against contamination of base materials—both electrical and chemical inspections are
  - performed. (d) Plated holes are sectioned and photo-micro-graphed to insure adequate plating thickness and continuity.



Dept. EI6, GLEN COVE, NEW YORK



GLen Cove 4-8000 FLushing 7-8100 Cable: PHOCIRCO

Please send me your NEW Bulletin P-9b on "Standard Printed Circuit Tolerances."

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# ONLY TELECHROME MAKES F

#### COMPLETE FACILITIES FOR TV STATIONS, MANUFACTURERS & LABORATORIES

Binest sold film sholid, salarplexies, treasmitting analyting, manifeling. Arting equipment



#### 617-BR AUTOMATIC BALANCE CONTROL FOR ALL COLORPLEXERS

#### (Regardless of Manufacture)

An ingenious circuit lacks the entire encoding equipment in balance within 20 seconds after being turned on. Thereafter balance is held under even the most difficult operating condi-



#### 1003-A VIDEO TRANSMISSION TEST SIGNAL GENERATO Portable

Portable
Campletely self-contained, partable. Produces multi-frequency burst, stairstep, madulated stairstep, white window, campasite synch. Regulated power supply. 1214" standard rack mounting or in cartific contains. rying case.



#### 700-A 3V COLOR FILM CHAIN

Finest in quality, lowest in price. 3V provides greatest latitude in selection of color films. De-signed specifically for broadcost application, requires little space. Multiplexes 35 or 16mm film, slides, apaques,



#### 1073-A SINE-SQUARED SQUARE WAVE GENERATOR

Neverther and produce new yor of wave forms for set in an out or all of a IV or pulse system for amplitude and not projective. "Go-No-Go" lateralism products.



-And applications meditor to but

Signal Certification Equipment, Accurately meassignal Certification Equipment. Accurately measures the performance of generit, and phase errors of color TV equipment. Presents on a cothede tay screen a continuous polar plat of the phase and amplitudes of pill rolors in a compasite color video signal. Capable of a .005 accuracy with 604-AR shall mag if the



#### 1604-AR PHASE MAGNIFIER

Expanded phase indicator of a small for measurements of all stended phase 2° or better accuracy at shroma time and the

#### TELEMETERING TRANSMITTERS . High Power in Small Packages

Direct FM Transmitters Crystal controlled 215-235 megacycles, 125kc deviation,



Model 1462 6" x 4"4" x 3"4" 50 to 80 Watts



Madel 1463 51 %32'' x 31 3/16'' x 4'' 15 ta 30 Watts

1881-88



Model 1472 4" x 1.5" x 2.7" 2 Watts

DELIFERY 30 DAYS



Madel 1460 5" x 45" x 3<sup>15</sup>/<sub>16</sub> RF Amplifier 15 to 30 Watts



Model 800-4.5" x 1.3" x 1.4"

SUB-CARRIER OSCILLA-TOR. Deviation stability ±1% of band width. Deviation linearity less than 1% of band width under all canditions measured fram a straight line drawn between end paints.



#### 636-B CHROMALYZER

Partable Precisian Calar Bor Generatar far checking colar braadcast studio and transmission facilities, receivers and manitors. Con be tied into a system. Provides camplete campasite calar signals at 100 ar 75% chrama.



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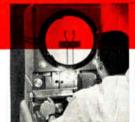
ferfortunesse maps at more reading of the employe dates and angelists photostellists of the parameter store amplifies, as systems. Pre-\*\*) Defined view and the property of a line could be recorded to the could be recorded to the country and recorded to the country and recorded to the country of the countr



The Harles's Leading Supplier of Criss TV Equipment 25 Merrick Road Amityville, N. Y. AMilyville 4-4444









# **STUNG-SOL**

#### TUNG-SOL ELECTRIC INC., Newark 4, N. J.

SALES OFFICES: ATLANTA, GA.; COLUMBUS, OHIO; CULVER CITY, CALIF.; DALLAS, TEX.; DENVER, COLO.; DETROIT, MICH.; IRVINGTON, N. J.; MELROSE PARK, ILL.; NEWARK, N. J.; SEATTLE, WASH.



Miniature Lamps



UNG-50

Sealed Beam Headlamps



Signal



Radio And TV Tubes



Aluminized Picture Tubes



Special Purpose Tubes



Semiconductor Products

# Here's the fastest way to produce finished wire leads!



AUTOMATIC MODEL CS-6

3000 STRIPPED WIRE LEADS in one hour ...each precision-cut with both ends perfectly stripped. That's the speedy pace set by the Artos CS-6 in producing wire leads up to 15 inches in length! Production rates vary in proportion to the length cut.

Highly accurate machine operation reduces work spoilage to an absolute minimum. Errors due to the human element are eliminated. There is no cutting of strands or nicking of solid wire.

#### PROVED PERFORMANCE

Time-consuming hand stripping jobs which once were a bottleneck in many plants are gone forever. As a result, Artos automatic wire strippers are paying their way in the mass production of television and radio sets, electrical appliances, motor controls and instruments of all kinds.

Plan now to cut wire stripping costs in your plant ... with the high speed, automatic Artos CS-6.

#### CS-6 CAPACITY

Finished Wire Leads Per Hour: lengths to 15", 3000; 64"-97" lengths, 500.

Stripping Length: 11/2" max. both ends.

Cutting Length: max., 97"; min., 2"; special, \%".

STRIPS wire, cord and cable at speeds up to 3000 pieces per hour 2-Conductor Twisted Wire Single Conductor Solid Wire 2-Conductor Parallel Stranded Wire 300 Ohm Television Wire S1 Cord **Heater Cord** Braided Cord With Rubber Jacket

MEASURES.

**CUTS** and



Descriptive technical sheet tells how the Artos CS-6 can save you money, manpower and time.

2753 South 28th Street

Milwaukee 46, Wisconsin

#### Sun Spots

(Continued from page 110)

sunspots appear to be just dark holes in the sun's flaming atmosphere. No one knows what causes the spots, but Mr. Nelson has developed a theory that may explain their existence. His theory holds that as the planets in our solar system circle the sun, the collective action of their gravitational fields produces a varying effect on the sun's atmosphere-an effect which may create sunspots.

From years of observation, Mr. Nelson has learned which arrangement of the planets has the greatest effect on the sun. Thus, Mr. Nelson is able to forecast today radio weather that will occur two or three years from now.

#### Transparent TV

(Continued from page 108)

and tubes with all colors are in the experimental stage.

This work was started as part of an Office of Naval Research program for simplifying aircraft instruments. The goal is to simplify the operation of jet fighter



Fig. 2: NRL's Dr. Feldman shows new tube.

planes to reduce the training time of pilots and to help them get the maximum performance from their planes. Part of this aircraft development involves eventual replacement of the present windshield with a thin transparent display medium. The pilot then gets visual and electronic information at the same time and in the same spot. An interim program will involve installation of a flat trans-

(Continued on page 156)

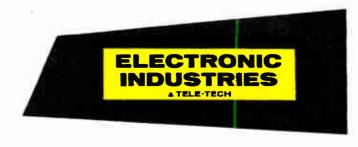


# Your open door to the West's booming electronic industries

#### ELECTRONIC INDUSTRIES' WESCON issue blankets this important market.

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The CHILTON CO. INC., 56th and Chestnut Streets, Philadelphia 39, Pa.





# ho produces more custom-built delay lines than any other company in America?





1st in sales!



1st company devoted <u>exclusively</u> to the manufacture of delay lines!



lst in research, design and development of custom-built delay lines!

Exceptional employment opportunities for engineers experienced in pulse techniques.



ESC CORPORATION



# SILICON DIODES

#### **FEATURES**

- Recovery times under .15 μsec
- High voltage ratings
- Operation up to 200°C
- High Inverse Resistance
- Subminiature size

#### MILITARY AND HIGH CONDUCTANCE TYPES

	RATINGS A	T 150°C AMBIENT	
Туре	Maximum Inverse Operating Voltage (volts)	Maximum Average Forward Current (ma)	Maximum Inverse Current (µa) @ V
IN457* IN458* IN459* IN486A IN488A	60 125 175 225 380	25 25 25 50 50	5 @ 60 5 @ 125 5 @ 175 25 @ 225 25 @ 380

\*JAN Types

#### HIGH FREQUENCY AND FAST SWITCHING TYPES

RATINGS AT 25°C					
Туре	Maximum Inverse Operating Voltage (volts)	Maximum Average Forward Current (ma)	Inverse Recovery Time (#25ec)		
IN251*	30	75	.15		
IN252	20	100	.15		
SG213	200	30	.3		
SG223	200	55	.5		
SG728	200	80	1		

\*JAN Types
Write for Bulletin TE1350

# GERMANIUM DIODES

#### **FEATURES**

- Complete Reliability
- Superior Forward Conductance
- Higher Inverse Resistance
- More Uniform Characteristics

Inverse

Greater Ruggedness

Туре	Current at + IV (ma)	Specified Voltage (µa @ V)	Max. Oper. Voltage (volts)	Description
1N270	200	100 @ -50	80	
IN277	ICO	250 @ -50 75 @ -10 @ 75°C	100	
IN276	40	100 @ -50	70	
IN 281	40	500 @ - 50	60	
		30 @ — IO		JAN TYPES
IN 126	5	500 @ - 50	60	
		30@ 10		
IN 127	5	300 @ -50	100	
1N198	5	25 @ — 10 250 @ — 50 75 @ — 10 @ 75°C	50	
IN283	200	20 @ - IO	20	
TIGG	40	100 @ -50	60	COMPUTER
		20 @ — 10		TYPES
IN278 T22G	20 40	125 @ -50 @ 75°C 20 @ -10 @ 75°C	50 15	HI- TEMPERATURE TYPES

60

80

RESISTANCE

**TYPES** 

SPECIFICATIONS AND RATINGS AT 25°C

Other JAN types: IN38A, IN69, IN70, IN81, INI28 Write for Bulletin TE1300 & TE1319

50 @ -50



## **SILICON Power**

#### **FEATURES**

- Reliability at High Temperature
- High Power Handling Ability
- High Efficiency
- Rugged Construction
- Hermetically Sealed

#### MINIATURE TYPES

Туре	Peak Recurrent Inverse Voltage (volts)	Maximum Average Forward Current (ma)	Maximum Inverse Current (ma)
TJIOA	100	200	.5
TJ25A	250	200	.5
TJ40A	400	200	.5

#### SILICON RECTIFIER STACKS

RATINGS AT 125°C AMBIENT					
	DC O	utput			
Circuit	Voltage (volts)	Current (amps)	Stack Designation		
6 φ Star	150	30	TL6SIA1/TR352		
3 φ Bridġe	325	18	TL6F1A1/TR352		
3 φ Halfwave	1120	1.2	TD12Y681A4		
I φ Bridge	748	1.2	TD12B4C1A3		
I φ Center Tap	250	3.0	TD12C4C3A2		

# SILICON VOLTAGE REGULATORS and REFERENCES

#### **FEATURES**

- Excellent long-term stability
- High current handling ability
- Operation to 150°C
- Extended operating current range
- Small size, easy mounting
- Hermetically sealed

Reference assemblies are available with temperature coefficients to .002%. They are also available with voltage tolerances to 1% from 10 to over 100 volts. The assemblies are encapsulated in a miniature axial lead package.

T9G

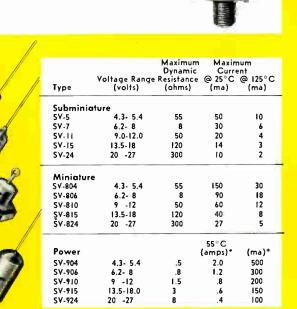
1N67A

5

# itron

## RECTIFIERS

-			
	Peak	Maximum Average	Maximum
	Recurrent Inverse	Forward	Inverse
	Voltage	Current	Current
Туре	(volts)	(ma)	(ma)
	MILITARY	TYPES	
IN253	95	1000	.1
IN254	190	400	.1
IN255	380	400	.15
IN256	570	200	.25
	STUD MOUN	TED TYPES	5
TM47	400	3000	.5
TM64	600	1000	.5
	MEDIUM PO	WER TYPE	S
		(amps)	
IN250A	200	20	5
TR301	300	10	5
TR402	400	20	5
	HIGH POW		
	HIGH POW	(amps)	
IN4I2A	HIGH POW		5



Write for Bulletin TE-1352 \*Case temperature ratings

# SILICON **TRANSISTORS**

HIGH FREQUENCY TYPES

#### **FEATURES**

- Low I<sub>cor</sub> typically under .02 μα
- Operation to 175°C
- Power Ratings of 200 mw
- High Frequency Operation
- Welded Hermetic Seal

Туре	Minimum Common Emitter Current Gain B	Maximum Collector Voltage Von Peak (volts)	Typical Cut-off Frequency (mc)	Maximum Collector Cut-off Current @ 25°C @ Ve Max. (μa)
ST12	40	15	16	.5
ST32	40	30	16	.5
STII	20	15	13	.5
ST31	20	30	13	.S
STIO	10	15	9	.5
ST30	10	30	9	.5

Write for Bulletin TE1353

# **GERMANIUM** Power **TRANSISTOR**

#### **FEATURES**

- Operation to 85°C
- Linearity at High Currents
- Up to 10 watts Dissipation
- Low Thermal Resistance
- Small Size
- Hermetically Sealed

	SPECIFICATIONS A	ND RATING	S AT 25°	
TYPE	Minimum DC Common Emitter Current Gain (8 @ Ic)	Voltage	Collector Current	Dissipation
2N83A	8 @ 1.0A	60	3 2	10
2N83	8 @ .5A	60		10
2N84A	12 @ 1.0A	45	3	10
2N84	12 @ .5A	45	2	10

Write for Bulletin TE1 320



# Design, Development DEFLECTION YOKES TRANSFORMERS

# For...Military and Commercial Avionics

Leading system manufacturers now depend on CELCO for their difficult and critical applications on many of these components.

Our design development, production and quality control experience — combined with CELCO's highly skilled operators, production foremen and engineers—comprises a team that has proven their outstanding performance for quality components.

Apply the CELCO "know-how" to your production requirements!

Celco

We specialize in the design and manufacture of **PRECISION DEFLECTION YOKES** for military and commercial applications.

CELCO can give you immediate engineering evaluation on your critical display problems.





Celco

COILS FOR TRAVELING WAVE TUBES — precision wound for minimum transverse magnetic fields. High temperature windings are a CELCO engineering development —

Unit illustrated is 12" long.





HIGH TEMPERATURE TRANSFORMERS—high temperature windings and impregnations on CELCO TRANSFORMERS permit high operating temperature with reduced size and weight.





MINIATURE TRANSFORMERS & SATUR-ABLE REACTORS — specially produced for the Transistor and Plug-in type amplifier assembly. CELCO designs these units wherever reduction in size and weight must be made.









**TOROIDAL COILS** — CELCO is equipped to cover an extremely wide range of toroidal windings.

No. 50 wire on a .062" ID Toroid

No. 15 wire on 9" OD Toroid





# MAGNETIC AMPLIFIERS AIRCRAFT MOTOR COMPONENTS

... Nuclear and Computer Industries



**MAGNETIC AMPLIFIERS**—encapsulated with epoxy resins or silicone rubber. CELCO experience with proper treatment of Toroidal Coils assures designed performance.









**TOROIDAL COMPONENTS** — for use in system assemblies. Sub-assemblies of chokes, Transformers and Saturable Reactors are manufactured at CELCO for packaging into a single unit









**PRECISION TRANSFORMERS** — CELCO develops Precision Transformers for such applications as Computer Components with high accuracy of turns ratio and output voltages.







HERMETICALLY SEALED MAGNETIC AMPLIFIERS & TRANSFORMERS — with various types of terminations, evacution and inert gas pressurization give CELCO components minimum weight with high-breakdown voltage resistance.









**R.F. CHOKES, TRANSFORMERS**– specialized universal winding types of coils and assemblies. These CELCO windings are used when minimum distributed capacitance is required and space does not permit use of mechanical supports.





**MOTOR COMPONENTS**—Centrifugally cast squirrel cage rotors for low inertia motors, armatures, stators, field coils and special type rotor coils — are a CELCO production specialty.



Call DAvis 7-1123 — for immediate engineering evaluation price and delivery quotations on any of these component requirements.

Your plant is only hours away by the Celco Air Fleet





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ISLANDANE BHONE DAVIS 7-1123 MAHWAH, N. J.

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Garrett Corporation engineers are constantly called upon to provide solutions for seemingly insurmountable problems. The high degree of respect in which the Garrett engineer is held by his profession is a tribute to the accomplishments of our team.

If you qualify to join us, stimulating assignments in the work you like best are only part of what we offer. We pay a premium for ability. You'll work with the finest research and laboratory facilities at your disposal...live in the most desirable areas in America — California, Arizona, the East Coast.

All modern U.S. and many foreign aircraft are Garrett equipped. We have pioneered such fields as refrigeration systems, pneumatic valves and controls, temperature controls, cabin air compressors, turbine motors, gas turbine engines, cabin pressure controls, heat transfer equipment, electro-mechanical equipment, electronic computers and controls.

We are seeking engineers in all categories to help us advance our knowledge in these and other fields. Send resume of education and experience today to: Mr. G. D. Bradley



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(Continued from page 148)
parent television tube mounted
just inside the wind screen.

The advantages of transparent screens have been recognized for several years but previous efforts have resulted in limited colors and dim pictures. The process developed by Dr. Charles Feldman of the Naval Research Laboratory has been successful in a full range of colors which generate bright sharp pictures. Several television companies have indicated that development in their laboratories will start immediately.

#### Vacuum Insulation

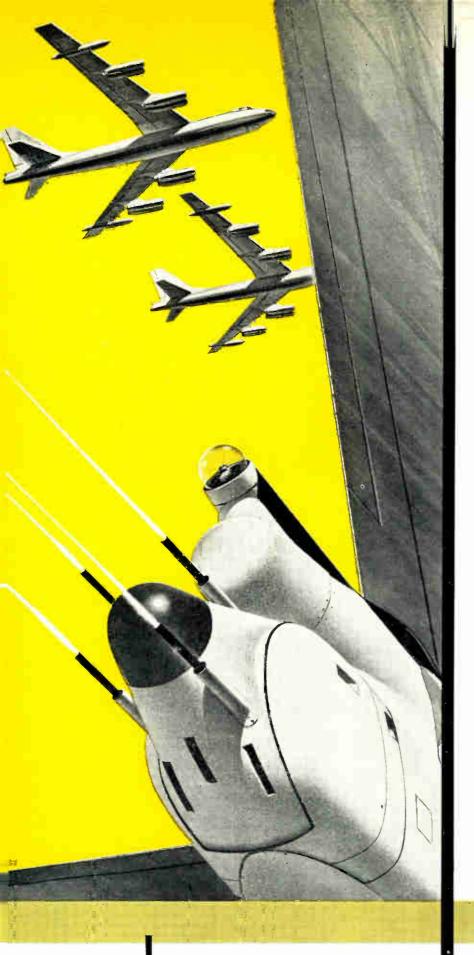
(Continued from page 105)

thickness of 1 mm. At an original vacuum of 10-6 mm Hg at room temperature there would be about  $3.5 \times 10^{12}$  molecules remaining. If the diffusion rate for the area of 100 sq cm is now applied, it would indicate an actual diffusion of  $1 \times 10^{17}$  molecules per hour (10 ul/hr). This would indicate that the vacuum would fall from 10-6 mm Hg to the 10<sup>-1</sup> mm Hg range in an hour or less. However, gettering action of clean internal surfaces would be able to maintain the original vacuum for many hours even at this diffusion rate. Since this temperature of 450° C is the usual degassing temperature for many tube pumping processes it is probable that much of the pump volume is being used merely to recirculate air diffusing through the heated glass tube walls.

At somewhat lower temperatures, clean surface gettering rate is so far ahead of diffusion rate that even for very large thin glass surfaces the original vacuum is maintained indefinitely. Good examples of this are thousands, perhaps millions of vacuum switches and vacuum tubes over 25 years old, and very high voltage rectifier tubes and x-ray tubes over 30 years old which have as good or better vacuum and higher dielectric breakdown strength now than when they were first sealed off.

Thousands of high voltage vacuum capacitors and vacuum switches, many of which have been in service up to 15 years, have been found on retesting to show dielec-

(Continued on page 170)



## "TRIGGER FINGER" FOR SAC

Reliable protection is a must for Boeing's giant B-52, operational weapon of the Strategic Air Command. An Avco-Crosley-manufactured MD-9 fire control system—with dual radar and multi-weapon turret—provides deadly and almost completely automatic protection for the B-52.

This newest "stinger" is one of a long list of modern bomber defense systems produced by Crosley. And, looking to the future, Crosley scientists are constantly developing still finer protection for the aircraft of tomorrow.

Crosley offers complete facilities for research, development, and production of:

Air Weapons Systems Ground Radar Systems Air Traffic Control Systems Ordnance Systems

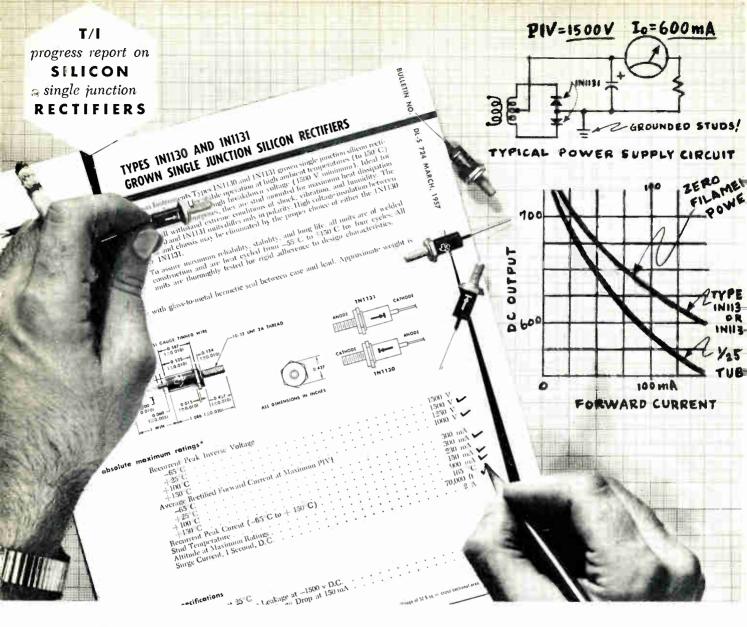
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Aveo Manufacturing Corporation, Crosley Division, Dept. WS, 1329 Arlington Street, Cincinnati 25, Ohio.

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ENGINEERS WANTED: For top-flight men, Crosley offers unusual opportunities to explore new scientific frontiers that lead to outstanding and rewarding careers. Write to Vice President of Engineering at Avco-Crosley.





new design freedom for your miniature high voltage power supplies with...

# NEW TI 1500 V, 300 mA RECTIFIERS

You can replace 5R4 and 5U4 rectifiers with Tl's new single junction rectifiers in many applications. In a fraction of the space, you will get instant operation at high temperatures with zero filament power. Here are some significant ratings of these new Texas Instruments Types 1N1130 and 1N1131 (differing only in polarity):

VALUE	AMBIENT	TEMPERATURE
	25°C	150°C
PIV	1500 V	1000 V
I <sub>f</sub> (at max. PIV with heat sink)	300 mA	150 mA

Designed to meet stringent military requirements, these TI rectifiers give you the ultimate in hermetic scal protection. The standard RETMA stud is of copper for optimum performance and the hex base assures high-torque chassis mounting. High volt-

age insulation between stud and chassis can be *eliminated* by proper choice of either 1N1130 or 1N1131.



400 V, 750 mA TI TYPE 1N540 ECONOMICAL diffused RECTIFIER lower FORWARD VOLTAGE DROP

Reliability of your power supplies is assured by this rectifier...giving you cooler operation. Typically, at 150°C, they give you 0.64 V voltage drop at 250 mA and 0.20 mA reverse current at 250 V.





# MICROWAVE · ELECTRONICS

#### SIGNAL GENERATION **EQUIPMENT**



MICROWAVE SIGNAL GENERATORS Models MSG-1, 2, 3, 4, 4A 950 to 11,500 mc

Model No.	Frequency Range		
MSG-1	950 - 2400 mc		
MSG-2	2150 - 4600 mc		
MSG-3	4450 - 8000 mc		
MSG-4	6950 - 10,800 mc		
MSG-4A	6950 - 11,500 mc		



MICROWAVE SIGNAL GENERATOR Model MSG-34 4,200 to 11,000 mc



MICROWAVE SIGNAL SOURCES 650 to 11,500 mc

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CODE MODULATED

MULTIPLE-PULSE

MICROWAVE SIGNAL GENERATOR Model B 950 to 10,750 mc

4 Interchangeable Tuning Units

MAXIMUM POWER AVAILABLE FROM POLARAD SIGNAL SOURCES IN THE RANGE OF 650 TO 10,750

FREQUENCY RANGE	MODEL SSR	MODEL SSL	MODEL SSS	MODEL SSM	MODEL SSX	MODEL SSXA
	650-1300MC	1050-2250MC	2140-4600MC	4450-8000MC	7850-10,750MC	7850-11,500MC
AVAILABLE POWER RANGE (mw)	100 to 700	- 80 to 400	40 to 250	15 to 50	14 to 40	Available on Special Order





EHF MICROWAVE GENERATORS AND SOURCES 9 plug-ih units cover 18,000 to 50,000 mc

SIGNAL GENERATORS Bacic Unit Model HU-2 Plug-In Tuning Unit Model No.	FREQUENCY RANGE	SIGNAL SOURCES Basic Unit Model HU-1 Plug-In Tuning Unit Model No.
G1822-1 G2225-1 G2427-1 G2730-1 G2933-1 G3336-1 G3540-1	18,000 — 22,000 mc 22,000 — 25,000 mc 24,700 — 27,500 mc 27,270 — 30,000 mc 29,270 — 33,520 mc 33,520 — 36,250 mc 35,100 — 39,700 mc 37,100 — 42,600 mc 41,700 — 50,000 mc	\$1822-1 \$2225-1 \$2427-1 \$2730-1 \$2933-1 \$3336-1 \$3540-1 \$3742-1 \$4150-1

**MICROWAVE** SWEEP GENERATOR

Frequency Range: BL-1 — 950 to 2400 mc BS-1 — 2150 to 4600 mc BC-1 — 4450 to 8000 mc BX-1 — 7850 to 10,750 mc 1,000 to 15,000 mc 7 Interchangeable Tuning Units



Basic Unit: Model E-B MODEL FREQUENCY RANGE POWER OUTPUT Model E-L1 Model E-L2 Model E-S1 Model E-C1 Model E C2 1000 to 2,000 mc 70 to 900 mw 1000 to 2,000 mc 1600 to 3,200 mc 2000 to 4,000 mc 3600 to 7,200 mc 4800 to 9,600 mc 6500 to 11,000 mc 7500 to 15,000 mc 70 to 900 mw 70 to 900 mw 70 to 750 mw 20 to 350 mw 15 to 125 mw 15 to 80 mw 10 to 35 mw

#### **SPECTRUM ANALYZERS**



#### DIRECT REARING SPECTRUM AMALYZER

Madel 13.8 Broadhand 16 to 45,000 mc

5 Interchangeable Tuning Drills

Mean St.	Equipment Specified Specime
Moon block	MF Tamong Charl 15-3 000 mm
Model 671-7A	950-4 the mt
Missel TITLE	#F Tarring limit
MARKET STREET	Mr Tarable Lines



MULTI-PULSE SPECTRUM SELECTOR Medel SD 1

Permits spectrum analysis of milialitus microware pulses in a paint group



#### POLARAD ELECTRONICS CORPORATION

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# MICROWAVE - ELECTRONICS - GOLOR TV

#### MICROWAVE RECEIVERS



EXTENDED RANGE MICROWAVE RECEIVER Model R 400 to 22,000 mc

7 Interchangeable Tuning Units

Basic Receiver: Model R-B Tuning Unit Frequency Ranges

ing omit rieducinty nauges:	
*Model RR-T	400- 1,000 mc
*Model RL-T	
*Model RS-T	1,900- 4,340 mc
*Model RM-T	
*Model RX-T	7,300-11,260 mc
*Model RKS-T	9,500-15,600 mc
*Model RKILT	14 700-22 000 mc

\*U.S. Patent No. 2,774,243

# CALIBRATED MICROWAVE FIELD INTENSITY RECEIVER SYSTEM Model FIM 1,000 to 10,000 mc

Frequency Range: Tuning Unit \*FIM-L

\*FIM-L \*FIM-S \*FIM-M \*FIM-X

\*U.S. Patent No. 2,774,243







ANTENNAS



#### MICROWAVE ACCESSORIES



POWER SUPPLY

MICROWAVE ATTENUATOR Model SIJ Covering 4,000 to 12,400 mc

... continuously variable, stub-tuned waveguide beyond cut off attenuator. For use in making microwave measurements.



S-BAND CAVITIES
Plate and Grid Pulse
Models Each Covering
2,750 to 3,000 mc
... only 3" long and 1"
diameter. Useful where
miniaturization and high
power are essential. Frequency can be varied by
simple tool adjustment.



MICROWAVE TEST ANTENNAS Six models covering 1,000 to 26,000 mc

...rugged, portable. For field measurements, leakage measurements and other laboratory uses.



ALL CERAMIC KLYSTRON TUBE Model ZV1009 VELOCITRON 1,600 to 6,500 mc

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# GENERAL LABORATORY EQUIPMENT MICROWAVE TUBE TESTER Model K-200 Tests all microwave tubes as easily as ordinary vacuum tubes. PULSE JITTER TESTER Model PJ-1 Measures (a) Pulse-to-pulse jitter (b) Pulse width jitter (c) Repetition rate jitter Displays (a) Jitter magnitude (b) Jitter waveform Wide Band VIDED AMPLIFIER Model VT 10 eps to 20 mc

5 PULSE CODED MULTI-PULSE GENERATOR Model MP-1A

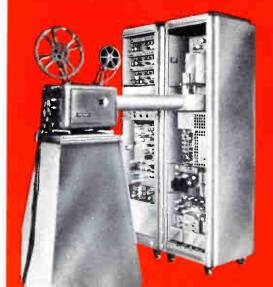
Generates 5 separate pulses each with independently variable width and delay for missiles, beacoms, and other systems.



#### **TELEVISION EQUIPMENT**

FILM AND SLIDE SCANNER SYSTEM Model CC-1 and Model PT-210

For telecasting 16mm color film and 35mm color slide transparencies



### International

# ELECTRONIC SOURCES

ELECTRONIC INDUSTRIES' exclusive monthly digest of the world's top electronic engineering articles



#### ANTENNAS, PROPAGATION

Etching Simplifies Antenna Design, by J. A. McDonough, R. G. Maleck, and J. Kowalsky. "El. Ind." June 1957. 3 pp. Manufacturing problems of tolerance and operating problems of energizing numerous radiating elements are reduced by using etching techniques. mounted microwave aircraft antennas become

Long-Range Tropospheric Propagation of UHF Waves, by B. A. Vvedensky and A. G. Arenberg. "Radiotek." Feb. 1957. 12 pp. The paper examines incoherent scattering, coherent scattering, refraction and diffraction of UHF waves which are propagated over large dis-tances. The paper contains a thorough and up-to-date analysis of this problem, including some fresh approaches.

The Measurement of the Efficiency of Short Unsymmetrical Meter-Wave Antennas, by M. Lohr. "Nach. Z." March 1957. 6 pp. A simple method for testing the antenna efficiency, accurate to approximately 2%, is explained. Examples are included.

The Effect of a Dielectric Layer Upon the Reflection Properties of a Reflector with Aper-tures, by V. G. Iampolsky. "Radiotek." Feb. 1957. 6 pp. The paper examines the problem involving the passage of an electromagnetic field through a reflector with apertures which is covered with a dielectric layer. It is shown that covering the reflector with a dielectric layer usually leads to a deterioration of the reflective properties of the reflector.

Noise in Communications Antennas, by M. W. Scheldorf. "Wire & Radio Comm." April April 1957. 3 pp. Results of a survey are presented, and different sources of noise in communications antennas discussed.

Microwave Helical Aerials, by T. G. Hame. "El. Eng." April 1957. 3 pp. Some of the problems involved in the design of this type aerial are considered with particular reference to the dielectric enclosed helix.



#### AUDIO

Simplified Coincident Motion Picture Sound Using A Tape Recorder. "El. Des." April 15, 1957. 3 pp. A recorded line-frequency tone is amplified and used to drive the projector synchronous motor, thus giving syn-

A Loudspeaker Installation for High-Fidelity Reproduction in the Home, by G. J. Bleeksma and J. J. Schurink. "Phil. Tech." March 23, 1957. 12 pp. Theory and practical design details of a four-speaker system are discussed.



#### CIRCUITS

A Review of Modulators and Their Requirements, by M. H. Zinn. "El, Des." April 15, 1957. 3 pp. Hard-tube modulators, line-type modulators, and passive-element modulators are discussed.

Four-Terminal Network with Complex Transfer Constant, by H. Edelmann. "Freq." Feb. 1957. 6 pp. It is shown how networks with complex transfer constant and involving no losses are represented by a voltage and a current amplifier. Certain difficulties in the component representation of three-phase net-works are overcome. The complex fourworks are overcome. The complex four-terminal networks studied have a complex voltage ratio and a reciprocal, conjucated current ratio.

Linear-Logarithmic Amplifier for Ultra-Short Pulses, by H. Kihn and W. E. Barnette.
"RCA." March 1957. This is a description of a compact five-stage logarithmic-linear amplifier having an over-all bandwidth of 180 mc centered at 180 mc and a total dynamic range of 67 db. usefulness is seen in airborne millimicrosecond pulse radar, multiple channel TV, and nuclear pulse amplification.

Preferred Circuits-II. "El. Mfg." March 1957. 6 pp. A cathode follower for fast rise time pulse applications and a phantastron delay circuit are included.

Analysis and Synthesis of Transitional Butterworth-Thomson Filters and Bandpass Amplifiers, by Y. Peless and T. Murakami. "RCA." March 1957. 35 pp. The authors introduce a new family of networks having steady-state and transient characteristics which vary smoothly from the Butterworth characteristic (maximally flat amplitude) to that for the Thomson characteristics (maximally flat envelope delay).

Survey of the Computations Covering Filters with Losses According to the Operational Parameter Theory, with a Particular View to Band-Pass Filters in Crossed Connection, by C. Kurth. "Freq." Feb. 1957. 11 pp. This is the third continuation of an article and is directed to the consideration of the losses, computation of component values, and reduction of required coils and capacitors.



#### COMMUNICATIONS

High-Speed Data Transmission, by W. A. Malthaner. "Bell Rec." April 1957. 5 pp. Malthaner. A data subset is described which can be used over telephone lines to transmit digital data at a speed of 1,000 words per minute. Data is pre-recorded on magnetic tape; the receiver records on a simlar tape.

#### REGULARLY REVIEWED

AEG Prog. AEG Progress
Aero. Eng. Rev. Aeronautical Engineering
Review Ann. de Radio. Annales de Radioelectricite Arc. El. Uber. Archiv der elektrischen Uber

Arc. El. Uber. Alcani tragung
ASTM Bull. ASTM Bulletin
Auto. Con. Automatic Control
Auto. El. The Automatic Electric Technical
Journal
Avto. i Tel. Avtomatika I Telemekhanika
AWA Tech. Rev. AWA Technical Review
BBC Mono. BBC Engineering Monographs
Bell Rec. Bell Laboratories Record
Bell Rec. Bell System Technical Journal BBC Mono. BBC Engineering Monographs
Bell Rec. Bell Laboratories Record
Bell J. Bell System Technical Journal
Bul. Fr. El. Bulletin de la Societe Francaise des Electriciens
Cab. & Trans. Cables & Transmission
Comp. Rend. Comptes Rendus Hebdomadaires
des Seances oes Seances
Comp. Computers and Automation
Con. Eng. Control Engineering
E. & R. Eng. Electronic & Radio Engineer Elek. Elektrichestvo Elek. Elektrichestvo
El. Electronics
El. & Comm. Electronics and Communications
El. Des. Electronic Design
El. Energy. Electrical Energy
El. Eng. Electronic Engineering
El Eq. Electronic Equipment
EL. Ind. ELECTRONIC INDUSTRIES & Tele-EL. Ind. ELECTRONIC INDUSTRIE
Tech
El. Mfg. Electrical Manufacturing
El. Rund. Electronische Rundschau
Eric. Rev. Ericsson Review
Fern. Z. Fernmeldetechnische Zeit Fernmeldetechnische Zeltschrift Freq. Frequenz
GE Rev. General Electric Review
Hochfreq. Hochfrequenz-technik und Elektron kustik IBM J. IBM Journal Insul. Insulation
IRE Trans. INE Transactions of Prof. Groups J. Akad. Izvestia Akademii Nauk SSSR J. BIRE. Journal of the British Institution of Radio Engineers J. ITE. Journal of The Institution of Telecommunication Engineers J. IT&T. Electrical Communication.
J. UIT. Journal of the International Telecommunication Union Nach. Z. Nachrichtentechnische Zeitschrift NBS Bull. NBS Technical News Bulletin NBS J. Journal of Research of the NBS. Onde. L'Onde Electrique
Phil. Tech. Philips Technical Review
Proc. AIRE. Proceedings of the Institution
of Radio Engineers
Proc. BIEE. Proceedings of the Institution of Electrical Engineers
Proc. IRE. Proceedings of the Institute of Proc. IRE. Proceedings of the Institute of Radio Engineers
Radiotek, Radiotekhnika
Radio Rev. La Radio Rerue
RCA. RCA Review
Rev. Sci. Review of Scientific Instruments
Rev. Tech. Rerue Technique
Syl. Tech. The Sylvania Technologist
Tech. Haus. Technische Hausmittellungen
Tech. Rev. Western Union Technical Keview
Teionde. Telonde
Toute R. Toute la Radio
Vak. Tech. Vakuum-Technik

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ELECTRONIC INDUSTRIES & Tele-Tech. Chestnut & 56th Sts., Phladelphia 39

Vakuum-Technik

Vak. Tech. Vakuum-Tec Vide. Le Vide Vestnik. Vestnik Svyazy

Wire. Wld. Wireless World

Sunspots Aid Radio Circuits. "El. Ind." June 1957. 1 p. Results of a ten-year study show positive correlation between sunspot activity and radio signal quality.

Canadian-Design Mobile System for 150 MC, by W. Ornstein and G. M. Koch. "El. Ind. Op. Sect." June 1957. 3 pp. Requirements for equipment for the VHF land mobile service are discussed, and typical Canadian-developed equipment design described.

Microwave Links According to the 8th Conference of the CCIR at Warsaw, by G. Bruehl. "Nach. Z." March 1957. 6 pp. The recommendations accepted by the CCIR conference in 1956 at Warsaw are set forth.

Probability of the Reception of a Signal by a Receiver Which Has a Finite Restoration Time, by A. M. Vasilev. "Radiotek." Feb. 1957. 11 pp. An equation is derived which determines the probability density of receiving a signal at an instant of time in a receiver with a finite restoration time. It is assumed that the probability density of the appearance of the signal at the receiver input is given. The general solution is found for the equation, as well as simpler solutions for cases which are of practical interest.

The Effect of Fluctuations Upon a Phase Detector, by V. I. Tikhonov and I. N. Amiantov. "Radiotek." Feb. 1957. 12 pp. The paper examines the problem of the errors which appear in a phase dectector due to fluctuating interference. Approximate formulas are derived for the mean value of the voltage and the correlation function of the fluctuations across the detector load.

Measurement of Sensitivity on AM Communication Receivers, by J. F. G. "El. & Comm." Feb. 1957. 4 pp.

Two-Way Radio System Reduces Costs in Standard Oil Refinery, by L. F. Stanley and E. C. Williams. "Wire and Radio Comm." April 1957. 2 pp.

Damped-Oscillation Signals Simplify Telemetering and Relaying, by Kenneth A. Stone. "El. Eq." April 1957. 2 pp. By use of a newly-patented "Interceptor Transformer," an impressed a-c supply frequency is converted to a high-frequency carrier modulated by a damped-oscillation at twice the input frequency. Important to telemetering applications is the fact that a telephone line sees the low frequency damped-wave component rather than the high frequency component, which may be above the normal transmission spectrum of the line.

A Method for Raising the Interference Rejection of Autocorrelational Pulse Signals Reception, by M. I. Karnovsky and V. I. Chaikovsky. "Radiotek." Feb. 1957. 6 pp. The paper examines the interference rejection of a complex autocorrelational receiving system. It is shown that the proposed system has an increased interference rejection in comparison to an ordinary autocorrelational receiving system. A thorough mathematical and graphical analysis is provided.



#### COMPONENTS

Purchase Specifications for Pulse-Forming Networks. "El. Des." April 15, 1957. 3 pp. Pulse-forming networks for radar modulators are discussed.

Selenium Rectifiers in High-Voltage Power Supplies, by V. Wouk. "El. Mfg." March 1957. 5 pp. A comparison of the characteristics and application advantages of selenium rectifiers and vacuum tubes in high-voltage power supplies.

The Condition Governing Maximum Precision for Ferroresonant Voltage Regulators, by B. Z. Zilberman. "Radiotek." Feb. 1857. 1 p. On the basis of analyzing the fundamental harmonic of the non-sinusoidal quantities the condition for the maximum stabilization precision is given in the form of a relationship involving dimensionless parameters.

Piezoelectric Crystals, by H. O. Koch. "Freq." Feb. 1957. 5 pp. This article is concerned with the detection of natural defects in several types of crystals. A correlation between the aging of crystals, oscillator plates, and defects in the crystal is investigated and an effort is made to cure the defects in finished quartz pieces.

Considerations in the Design of Aluminum Foil Coils, by H. O. Rost. "El. Mfg." March 1957. 3 pp.

A Wire-Spring Multicontact Relay, by R. Stearns. "Bell Rec." April 1957. 4 pp. A new design permitting direct replacement of flat-spring multicontact relays with improved wire-spring relays. Assembly and operation characteristics are improved in the new relay.

The Quality Control of Printed Circuit Board Manufacturing, by F. H. Edwards. "El. & Comm." Feb. 1957. 4 pp.

What's Wrong with Plug-In Relays, by I. S. Mayer. "El. Mfg." April 1957. 4 pp. Deficiencies are listed in the areas of volume, weight, cost, reliability, interchangeability, and seals.



#### COMPUTERS

The Boolean Approach to Computer Switching, by I. J. Gabelman. "El. Ind." June 1957. 3 pp. Developing the elements of Boolean algebra and its application to the synthesis and analysis of combinatorial circuits, this article presents the basics for logical design.

Cooling Robot Brains, by N. E. Sheldon, C. A. Nolph, and G. A. Fleischer. "El. Ind." June 1957. 2 pp. Electronic computer cooling requirements are reviewed.

A Method for Synthesizing Computer and Controller Switching Circuits, by G. N. Povarov. "Auto. i Tel." Feb. 1957. 18 pp. The paper develops a method for synthesizing switching circuits designed for computer and controller systems. These circuits have k outputs with one input or k inputs with one output, while any arbitrary conductivity conditions may exist between the inputs and outputs. The method permits the design of a circuit by means of a single-valued regular process utilizing bridge connections and the combination of circuits involving different pairs of poles. The method offers a quick way of synthesizing a relatively economical (in terms of the number of contacts) circuit. Six examples are given. The supplement discusses the extension of the method to include contactless switching circuits.

Are Digital "Brains" Best for Missiles, by J. Holahan. "Aviation Age." April 1957. 4 pp. Advantages and disadvantages of digital and analog computers for missile applications are discussed.

Counting Thousands of Samples in 12 Hours—Automatically, by K. E. Relf. "Nucleonics." April 1957. 4 pp. Neutron-distribution plots are derived from data from 2,000 foils—corrected for background, decay, and interchannel normalization. 80 man-hours computation time is reduced to less than two hours of card preparation and computation with automatic computing equipment.

Deriving Information from Magnetic Memories without Deletion, by A. Darré. "Freq." Feb. 1957. 5 pp. This is a continuation of an article discussing the "transfluxor."



#### CONTROLS

Electronics in Traffic Control, by S. J. Mc-Murray, III. "Rice Engineer." Feb. 1957. A study of the factors involved in traffic flow and control on the highway.

Feedback, Servomechanisms, and the Nyquist Diagram, by H. M. Wilkinson. "El. & Comm." Feb. 1957. 4 pp. A fundamental review of the subject—includes a discussion of the physical meaning of the Nyquist diagram.

Predicting Temperature Rise in Servo Motors, by R. M. Gitlin and S. A. Davis. "El. Mfg." April 1957. 13 pp. The author describes the general logic and specific calculation methods needed for the design and application of heat evolving components such as servo motors.

Correction of Pulse Control Systems, by Ia. Z. Tsypkin. "Avto. i Tel." Feb. 1957. 15 pp. The paper examines continuous- and pulse-correction methods for pulse systems. A method is given for computing the corrective elements. An analysis is given of the possibilities of applying digital computers in the capacity of a corrective element.

Signal Pickoffs for Control Systems—II, by D. A. Davies. "El. Mfg." March 1957. 7 pp. Included are electrical signal pickoffs of the inductive and photoelectric types.

Design of a Propeller Synchrophaser for Commercial Aircraft, by C. B. Brahm. "El. Eq." April 1957. 3 pp. A new electronic propeller synchrophasing system is described.

Digital Positioning Control for Precision Jig Borer, by E. E. Kirkham. "El. Mfg." March 1957. 8 pp. Sensing, computing, and control techniques for control of precision machine tools are discussed.

The Operational Stability of a Two-Phase Servomotor with Negative Velocity Feedback, by E. I. Slepushkin. "Avto. i Tel." Feb. 1957. 11 pp. The paper examines the stability conditions governing the operation of a two-phase servomotor which has negative velocity feedback. The problem is analyzed for the general asymmetrical case when the machine has any arbitrary parameters and the supply system is also arbitrary. The stability criteria are established for the operation of the motor. The feedback parameters are determined according to the parameters of the mechanical characteristic at the "start" point. The design equations are expressed in terms of so-called generalized parameters: the computed critical slips for the equivalent circuits of the motor windings and the impedance ratios of the primary and secondary circuits. The theoretical conclusions are experimentally verified.

Electronic Controls for Timed Acceleration of D-C Motors, by P. A. Herrmann. "El. Mfg." March 1957. 9 pp.

Decreasing the Lag of Magnetic Amplifiers by Introducing Derivative Feedback, by O. I. Aven. "Avto. i Tel." Feb. 1957. 8 pp. The paper examines various methods for decreasing the lag in magnetic amplifiers by introducing derivative feedback. A simplified method is proposed for determining the feedback parameters. The effect of accelerating circuits upon the magnitude of the gain of the magnetic amplifier is evaluated. Experimental results are cited.

Two-Channel Automatic Control Systems with Antisymmetrical Coupling, by A. A. Krisovsky. "Avto. i Tel." Feb. 1957. 10 pp. An analysis is made of linear systems consisting of two identical channels and having antisymmetrical cross-coupling. Transfer functions with complex coefficients are introduced. The paper analyzes the possibilities of using various kinds of antisymmetrical coupling with regard to raising the stability and critical gain of the system. It is also demonstrated that a wider choice is available in the synthesis of corrective networks for two-channel systems (as compared to single-channel systems); the introduction of cross-coupling can assure a considerable extension of the regions of stability.



#### INDUSTRIAL ELECTRONICS

New HELPR For Electronic Industries. "El. Ind." June 1957. 1 p. A new approach to reliability testing for manufacturers of electronic equipment is proposed. A central laboratory capable of extensive tests of large samples of components would be set up with automatic testing and data handling equipment. Support, and distribution of reports, would be on a subscription basis.

Speed Regulation of a Three-phase Induction Motor by Means of a Bridge Detector, by V. S. Kulebakin, S. M. Domanitsky. "Avto. i Tel." Feb. 1957. 8 pp. The paper examines a speed regulation system designed for low-power three-phase induction motors. The system employs a bridge detector. A theoretical analysis of the proposed circuit is given with regard to motors having the usual short-circuited and phase rotors, as well as with regard to a motor with a solid Shenfer rotor.

Colour and Colour Rendering of Tubular Fluorescent Lamps, by A. A. Kruithof and J. L. Ouweltjes. "Phil. Tech." Feb. 10, 1957, 12 pp. By using a mixture of various phosphors in a tubular fluorescent lamp, the color point of the lamp in the chromaticity diagram can be varied within wide limits. Theory and practical development are discussed. Characteristics of several lamps of varying color temperature are presented.



#### MATERIALS

No-Mix Resin Casting. "El. Ind." June 1957. 1 p. The new casting technique eliminates the mixing of resin and catalizer—using instead, a bonded catalytic filler molded in place. The resin soaks into this porous molded filler. (Reprints of the complete original paper are available.)

Evaluation of Dip-Soldered Joints, by E. S. Miller and A. A. Johns, Jr. "El. Mfg." March 1957. 6 pp. Results of a test program revealing factors influcing dip-soldered joint characteristics are reported.

Characteristics of Metal-Clad Laminates, by D. S. Hoynes. "El. Mfg." April 1957. 7 pp. Results of a study of metal-insulator laminates for printed-circuit work are reported. Data on current-carrying capacity, electrical resistance of coated laminates, and dielectric properties are presented.

High-Temperature Solventless Encapsulating Resins, by D. W. Lewis. "El. Mfg." March 1957. 4 pp. The author reviews a class of solventless resins which combine the established thermal dielectric properties of the silicones with advantages of compounds that can cure without release of volatiles.

Developments in Polyethylene Insulation, by A. E. Javitz. "El. Mfg." March 1957. 10 pp. A review of characteristics and typical applications of polyethylene insulation.

Certain Properties of Ferrites, by J. K. Galt. "Bell Rec." April 1957. 5 pp. A basic review of ferrites.

High Temperature Inorganic Insulation, by L. W. Spooner. "El. Mfg." April 1957. 3 pp. A compound of asbestos bonded with 100 per cent inorganic aluminum phosphate is suggested as electrical insulation up to 250° C.

Ferroxcube Material for Piezomagnetic Vibrators, by C. M. van der Burgt. "Phil. Tech." March 23, 1957. 14 pp. Various types of ferroxcube may be used as magnetostrictive transducer cores in place of metals and alloys. Absence of eddy current and minimized friction losses result in higher electroacoustic efficiency at ultrasonic frequencies.

Ultrasonic Metal Joining, by J. B. Jones and E. E. Weismantel. "El. Mfg." April 1957. 6 pp. Ultrasonic soldering, brazing, and welding techniques and equipment are discussed. Application to electronic circuits is described.

Background on Epoxy Foams, by L. Bolstad and A. Stenerson. "El. Des." April 1, 1957. 2 pp. Factors in formulating Epoxy foams are discussed.

Applying High Permeability Laminations. "El. Mfg." March 1957. 6 pp. A review of basic design factors for high-nickel-alloy magnetic laminations.



#### MEASURING & TESTING

Distortion-Free Reproduction of Waveforms with a Large Bandwidth by Means of Display Units with a Small Bandwidth, by H. Riedle. "Nach. Z." March 1957. 7 pp. Frequency compression is used to display periodic wave containing a spectrum up to 200 mc by a simple commercial oscilloscope. The frequency compressor reduces the spectrum to approximately 20 kc. Details are given.

Automatic Testing Techniques. "El. Mfg." April 1957. 5 pp. An automatic encapsulated unit test set, a test stand for fire control computers, a broad-range function tester, and a precision potentiometer checker are described.

Poor Design Ups Test-Equipment Repair Costs, by R. Bilinski. "El. Eq." April 1957. 2 pp.

Measurement of the Electric Field Intensity of Cavity Resonators by the Method Involving the Displacement of the Resonant Frequency by Means of a Dielectric Probe, G. N. Rapoport. "Radiotek." Feb. 1957. 8 pp. The paper derives a theorem for the displacement of the resonant frequency of a cavity resonator when the separation boundary between different dielectrics inside the cavity is deformed. This theorem is the basis for the method involving the measurement of the relative electric field intensity according to the displacement of the resonant frequency of the cavity resonator which occurs when a small dielectric probe is introduced into the cavity.

A New Method to Investigate Tube Microphonics, by I. P. Valkó, A. Kemény, and L. Szécsi. "Hochfreq." Jan. 1957. 8 pp. In this continuation of the previous article the requirements for the noise generator, amplifier, vibrator and instrument are discussed and the arrangement selected is described. A series of measurements with the new method is compared with previous methods; the new method is held superior.



#### RADAR, NAVIGATION

Doppler Navigation Holds the Course, by W. J. Tull. "El. Ind." June 1957. 3 pp. Development work on Doppler ground speed and drift angle measuring equipment is described. Deadreckoning navigational computers and advantages of the system are explored.

Daylight Radar Scope Uses Transparent Phosphor. "El. Ind." June 1957. 1 p. A transparent deposited phosphor film allows incident light to pass through the face of the cathode ray tube and be absorbed by the darkened interior. Displays can be viewed even in the presence of intense incident light.

One Year of Tests with Radar Equipment for Marine Traffic Control at Bremerhaven, by G. Wiedemann, H. Schellhoss and H. Bruckmann. "Nach. Z." March 1957. 11 pp. The results of tests on radar traffic control on the rivers Weser and Elbe, and the Kiel Canal are reported. Local conditions and traffic are set forth and their effect on the required number of radar stations, the station equipment, and the accessory equipment are considered.

Satellite Tracking Based on Phase Comparison, by J. T. Mengel. "Aviation Age." March 1957. 3 pp. A recew of Minitrack techniques and equipment.

Infrared for Missile Guidance, Fire Control, Thermal Mapping, by J. Holahan. "Aviation Age." March 1957. 4 pp. A survey of present techniques and applications of infrared devices.



#### SEMICONDUCTORS

Design Procedures for Semiconductor Regulated Power Supplies, by S. Sherr, P. Levy, and T. Kwap. "El. Des." April 15, 1957. 4 pp. The authors discuss regulation factors, regulator design, and heat sink considerations.

Industry Sets First Transistor Standards, by L. F. Leinweber and C. D. Todd. "El. Ind." June 1957. 3 pp. A thorough explanation of the symbols and the system used in the new IRE standard for transistor symbols.

Avalanche Flow Line Analysis, by R. B. Hurley. "El. Ind." June 1957. 2 pp. The author extends the visual analysis presented in Electronic Industries, April 1957 to include avalanche considerations. The Flow Line Analysis is a significant new analytical tool.

Design, Construction, and High-Frequency Performance of Drift Transistors, by A. L. Kestenbaum and N. H. Ditrick. "RCA." March 1957. 12 pp. A combination of solidphase diffusion with alloy-junction techniques is described.

Effect of Radiation on Semiconductors, by J. C. Pigg and C. C. Robinson. "El. Mfg." April 1957. 9 pp. Changes in characteristics of typical semiconductor components when subjected to various radiation levels are described.

Transistors Can Be Reliable, by C. H. Zierdt, Jr. "El. Des." April 1, 1957. 4 pp. Improvements in transistor reliability and life are reported.

Waveform Generator Design Uses All Transistors, by E. M. Rosenthal. "El. Eq." April 1957. 2 pp.

Designing Transistor Circuits—D-C Regulators, by R. B. Hurley. "El. Eq." April 1957. 3 pp.



#### TELEVISION

Pepperpot Tube Checks Yoke Linearity, by Dr. W. F. Niklas. "El. Ind." June 1957. 3 pp. A conventional CRT, modified to produce split pencil rays, readily interprets distortion errors. The tube permits the use of a standardized, simple, and fast test method for production control.

New Life For Orthicons. "El. Ind." June 1957. 1 p. Orbiting lenses slowly move the image on an image orthicon tube to prevent "burn-in." The transmitted picture is maintained steady by a synchronized function generator and amplifier which corrects for lens orbital movement.

Planning an Overwater Microwave Link, by E. F. Wilson. "El. Ind. Op. Sect." 2 pp. Choppy seas, cursed for sea return, aid rather than hinder microwave TV. TV is a one-way signal and the cancelling signal due to reflection is attenuated by the irregular surface.

Distortion in FM Systems, by A. Ditl. "Hochfreq." Feb. 1957. 13 pp. The concept of an instantaneous frequency is used in the derivation of a formula which permits the computation of the output signal of an FM system for any input signal. TV signals are given special attention and methods for minimum distortion are studied.

Television Raster Nomograph, by C. W. Young. "El. Eq." April 1957. 2 pp. A design tool for ITV circuits is presented.

Distortions Due to Transient Response in the Single Side-Band Transmission of TV Signals and Their Suppression, by F. Kirschstein. "Hochfreq." Jan. 1957. 8 pp. The effect of frequency dispersion on TV reception is explained. Predistortion of the phase, as suggested by Kell and Fredendall, RCA-Review, March 1949, and the similar system introduced in the Hannover TV transmitter are considered.

# $\Delta G = \Delta G / e n_i \mu_p$ THEORY

Insulate With Vacuum, by H. C. Ross. "El. Ind." June 1957. Practical design considerations are discussed for vacuum relays and switches. Included are such matters as molecular mean free paths, solid vapor pressures, diffusion of gas through solids, and adsorption of gas by solid surfaces.

Circuit Analysis By "Poles and Zeros," by W. A. Scism. "El. Ind." June 1957. 3 pp. Engineers gain rapid insight into the behavior of circuits and variations in behavior with changes of components—by using "pole and zero" analysis.

Calculating R-C Amplifier Supply Voltages—II, by S. Deutsch. "El. Ind." June 1957. 3 pp. The trial and error method can be eliminated by assuming that the tube "constants" are actually constants and that the input signal always swings the tube from cutoff to zero grid-to-cathode voltage. Last of two parts.

Validity of Traveling-Wave-Tube Noise Theory, by R. C. Knechtli and W. R. Beam. "RCA." March 1957. 15 pp. Good agreement is found between first-order theory and experiment. Zero correlation was found between beam current and electron velocity fluctuations at the potential minimum in front of the cathode.

Periodic Solutions for Systems with a Sectionally-Linear Characteristic That is Composed of Segments Which Are Parallel to Two Given Straight Lines (Part I), by M. A. Aizerman, F. R. Gantmakher. "Avto. i Tel." Feb. 1957. 14 pp. The paper examines the problem of determining periodic regimes for systems having a nonlinear characteristic which is composed of segments of two straight lines. Periodic solutions for the corresponding differential equations are sought in the form of complete Fourier series. The solution of the problem includes the composition of equations for the periods and the solution of these equations. This method does not require the solution of linear systems of equations which describe the process over individual sectors.

Equivalent Two-Terminal Networks with All Three Impedance Types, R, C, and L, by K. H. R. Weber. "Hochfreq." Jan. 1957. 4 pp. The equivalence of specific configurations of two-terminal networks, each involving all three types of impedance is investigated. A theorem is derived which permits the establishment of such equivalence on the basis of the network structure only.

Space-Charge Limitation on the Focus of Electron Beams, by J. W. Schwartz. "RCA." March 1957. 9 pp. The motion of electrons within a homocentric uniform-density beam in the presense of space-charge forces is examined.

Traveling Wave Tube Gain Fluctuations With Frequency, by S. A. Cohen. "IRE Trans. PGED." Jan. 1957. 9 pp.

The Problem Of The Mechanism Of Electronic Emission From Thin Dielectric Layers Due To The Effects Of A Strong Electric Field (The Malter Effect), by M. I. Elinson and D. V. Zernov. "Radiotekhnika i Elektronika," Jan. 1957. 10 pp.

The paper analyzes the existing concepts of the mechanism governing the Malter effect. It is shown that these concepts cannot explain the sum total of the experimental facts which are known at the present time. A new point of view is proposed and analyzed; this point of view is based upon postulating that the potential distribution within the dielectric film is substantially inhomogeneous.

An Amplifier With Distributed Constants When Treated As A System Of Multi-Pole Networks, by Iu. N. Prozorovsky. "Radiotekhnika i Elektronika," Jan. 1957. 8 pp.

A method of analysis is developed for an amplifier with distributed constants. The amplifier is considered to be a system consisting of a finite number of multi-pole networks. Matrices are obtained which correlate the input and output voltages and currents of a stage of a distributed amplifier consisting of sections which are of the same type or of different types. The transfer coefficient of the amplifier is determined. The procedure for transforming the complete circuit of a UHF pentode to a multi-pole network is given, and the corresponding matrices are derived.

Mutual Synchronization Of Self-Excited Oscillators At Multiple Frequencies, by G. M. Utkin. "Radiotekhnika i Elektronika," Jan. 1957. 13 pp.

The paper examines a system consisting of two mutually coupled self-excited oscillators at approximately multiple frequencies. In such a system it is true that mutual synchronization of the oscillations takes place in a certain detuning range of the oscillator tank circuits (the synchronism zone). The dependence of the operating mode and the frequency of oscillation, as well as the width of the synchronism zone, upon the frequency multiple and the oscillator parameters is derived. Certain features of the "beat" mode which arises outside of the synchronism zone are examined.

Small-Signal Wave Affects in the Double-Base Diode, by J. J. Suran. "IRE Trans. PGED." Jan. 1957. 10 pp. The Character of Waveguide Mode in Gyromagnetic Media, by H. Seidel. "Bell J." March 1957. 18 pp. The effect of birefringencs is studied in rectangular and circular waveguides with special attention paid to propagation characteristics in guides of arbitrarily small cross-section.

Analysis of A Non-Reciprocal Effect in an N-Wire Ferrite Loaded Transmission Line, by H. Boyet and H. Seidel. "Proc. IRE." April 1957. 5 pp. The N-Wire rotational symmetric line surrounding a thin ferrite rod is analyzed here with the aim of determining the feasibility of this low-frequency, non-reciprocal device.

Thermionic Current in a Parallel-Plane Diode, by L. J. Giacoletto. "IRE Trans. PGED." Jan. 1957. 2 pp. An approximate formula is developed for the current of a parallel plane diode including the effects of initial velocities of emission.

Variation of Cable Loss with Standing Wave Ratio, by E. G. Hamer, "J. BIRE." Feb. 1957. 4 pp. Effects of Power losses in mismatched transmission lines are considered, and formulae and nomograms are derived for the increased effect of attenuation and power loss in the cable. Consideration is also given to the reduction of the standing wave ratio between the receiving and sending end, and a nomogram is derived.

The Connection between Time and Spectral Functions, by U. Kirschner. "E. Rund." March 1957. 6 pp.

A mathematical investigation results in formulas applicable in picture transmission engineering, pulse technique and television engineering whenever the circuit design calls for a knowledge of the relationship between the time function and the spectral function.

The Variational Method Of Computing Waveguides With Periodic Inhomogeneities, Part 1, by Sh. E. Tsimring. "Radiotekhnika i Elektronika," Jan. 1967. 12 pp.

The paper examines the propagation of electromagnetic waves in a periodically corrugated waveguide whose walls are considered to be ideally conducting and whose internal medium is considered to be loss-free.

The Transformation Of Fluctuations In The Amplitude And Phase Of Oscillations By Means of Resonant Systems, by G. S. Gorelik and G. A. Elkin. "Radiotekhnika i Elektronika," Jan. 1957. 6 pp.

A theoretical investigation is made of how

A theoretical investigation is made of how a signal whose phase and amplitude vary in a random manner passes through systems consisting of a linear (resonant) member and a nonlinear member (detector). Formulas are derived which make it possible to determine the statistical phase and amplitude characteristics at the output of the resonant system on the basis of the specified characteristics of the phase and amplitude fluctuations at the input of the system.



#### TRANSMISSION LINES

Miniature Strip Transmission Line and Components—Part 1, by E. N. Torgow and J. W. E. Griemsmann. "El. Des." April 1, 1957. 3 pp. Low cost, miniaturized microwave transmission line is described and characteristics discussed.

Miniature Strip Transmission Line and Components—II, by E. N. Torgow and J. Griesmsmann. "El. Des." April 15, 1957. 2 pp. This second section discusses various strip line components for use with miniaturized transmission line.



#### TUBES

Gaseous-Discharge Counter Breido and G. M. Iankin. "Radiotek." Feb. 1957. 6 pp. A survey is made of the widely used counter tubes whose operation is based upon the phenomenon of a directional transfer of the gaseous-discharge zone. The tubes which are chiefly examined are those which are used for decimal counting—the so-called "decatrons."

Dynamic Properties of Tungsten Cathodes, by W. Ruppel and H. Seifert. "Nach. Z." March 1957. 6 pp. Filament diameter and operating temperature are related to slope, time constant and life time of directly heated cathodes. The theoretical curves compare satisfactorily with measured values.

The Design of Periodic Permanent Magnets for Focusing of Electron Beams, by F. Sterzer and W. W. Siekanowicz. "RCA." March 1957. 21 pp. Design charts for minimum-weight structures are given, and the design of a periodic focusing structure for a specific traveling-wave power amplifier tube is considered in detail.

Barkhausen's Electron Oscillations as Basis of the Transit-Time Tubes, by H. E. Hollmann. "Hochfreq." Jan. 1957. 8 pp. This article presents a historical survey of the development of this type of tubes. Barkhausen's findings, made more than 35 years ago are presented, Gill-Morrell oscillations (1922) are discussed, and finally the theory of a reflex Klystron is explained.

Protection of Tubes from Shock and Vibration, by A. A. Benderly. "El. Eq." April 1957. 4 pp. Various potting compounds and methods of shock-protecting tubes within the potting compound are compared. Fiberglass, copper mesh, glass beads, or clay spheres were tried as additional tube protection.

Temperature Dependence of Photomultiplier Gain, by F. E. Kinard. "Nucleonies." April 1957. 2 pp.

Electron-Gun Design Permits Low  $E_{\rm ge}$ , by J. M. Sheehe. "El. Eq." April 1957. 4 pp. A new electron gun for TV picture tubes permits operation of grid number two at about 110 volts.

How a Helix Backward Wave Oscillator Works, by P. D. Lacy. "Aviation Age." March 1957. 2 pp.

Rectangular Cathode-Ray Tubes of High Aspect Ratio, by F. G. Blackler. "Phil. Tech." March 23, 1957. 3 pp. Special manufacturing problems encountered in the production of rectangular CRT are discussed.

Problems in the Construction of Small Radio Valves, by B. A. Cant. "Phil. Tech." Feb. 4, 1957. 6 pp.

Shutter Image Converter Tubes, by B. R. Linden and P. A. Snell. "Proc. RE." April 1957. II pp. The tubes discussed in this paper employ a mesh spaced close to the cathode which can be used to control the passage of photo-electrons from cathode to phosphor layer. The electron-optical theory is presented for both types of tubes and their static characteristics are discussed.

Backward-Wave Oscillator Experiments at 100 to 200 Kilomegacycles, by A. Karp. "Proc. IRE." April 1957. 8 pp. The electronically tunable oscillations were obtained at wave lengths between 3 and 1.5 mm in a demountable backward-wave oscillators whose circuit structure was a ridged waveguide with transverse slots in the broad wall.

Linear Beam Tube Theory, by C. C. Wang. "IRE Trans. PGED." Jan. 1957. 15 pp. Basic theories underlying the principles of operation of linear beam tubes are presented.

An Analysis Of The Energy Ex hange Between An Electron Stream And An Electromagnetic Wave, by V. N. Shevch k. "Radiotekhnika i Elektronika," Jan. 1957. 7 pp.

The paper examines certain problems involved in the interaction between an electron stream and a traveling electromagnetic wave when the kinematic approximation method is used. The process of electron bunching in the traveling wave is analyzed; this process is identical to the bunching process in a klystron. The maximum value of the first-harmonic current is determined in the traveling wave. The electronic efficiency of the interacting between the stream and the traveling wave is found. The synchronization concept is refined. The computations are extended to apply to a traveling-wave tube, and the optimum operating modes are found for a backward-wave oseillator at small amplitudes.

CRT Deflection Circuit Has High Efficiency, by W. V. Guggi. "El." April 1, 1957. 4 pp. The chicf significance of the high efficiency deflection circuits described in this article is that a single power transistor operating as a switch can be used by CRT deflection with plus or minus 2% or better linearity. The basic principle is one of circulating energy among various reactive elements and replacing lost energy during the early part of the sweep cycle.

A New Kind of Tuning Indicator Tube, by H. te Gude and E. Schaaff. "Phil. Tech." Feb. 4, 1957. 3 pp. In the tube described in this article, an electron beam of rectangular section produces a rectangular spot on a fluorescent screen. The tube will operate at as low as 100 volts anode potential.

Considerations on the Dimensioning of Travelling-Wave Tube Output Stages in Radio, by M. Mueller. "Nach. Z.", Jan. 1957. 4 pp.

A Links attempt is made to standardise travelling-wave tube design and to establish optimum design features for various applications. Starting from desired performance and available supply data, a series of tubes is arrived at.

Corona Discharge VR Tubes, by N. G. Anton and M. Youdin. "El. Des." March 15, 1957. 2 pp. Design and performance characteristics of corona discharge VR tubes are reviewed; characteristic curves and a discussion of dynamic resistance are included.



#### U. S. GOVERNMENT

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When an agency other than LC or OTS is the source, use the full address included in the abstract of the report. Make check or money order payable to that agency. Narrow-Band Lock-in Analyzer for Detailed Spectrum Analysis, by A. Z. Robinson. U. S. Nav. Ord. Lab. Mar. 1952. 61 pp. photos, diagrs., graph. Mi \$3.90, ph \$10.80. (LC) (PB 122439). A new type of narrow-band wave analyzer is described. This analyzer is different from the conventional analyzers in that the signal frequencies are heterodyned down to a zero beat and passed through low-pass filters rather than being heterodyned to some fixed pass-band which is higher in the frequency spectrum than the components being analyzed. The general theory of the instrument is described in detail and some of the analyses made with it are presented.

Result of Tests on the Interferometer or "Buck Gauge" Used for the Measurement of Shock Wave Parameters in Air, by E. M. Fisher. U. S. Nav. Ord. Lab. Oct. 1950. 18 pp. diagr., graphs, table. Mi \$2.40, ph \$3.30. (LC) (PB 122429). Three interferometer gauves were mounted at three distances from an 8 lb. spherical TNT charge. The gauges were mounted flush with the ground. The data yielded peak pressures and positive impulses which are compared to like data obtained from tourmaline piezoelectric gauges.

Study of Properties of Single Crystals for use as Detectors and Crystal Counters, by S. J. Czyzak, W. M. Baker, R. C. Crane, H. Payne and J. R. Ignatowski. Detroit University. Oct. 1955. 42 pp. photos, drawings, graphs, tables. (OTS) \$1.25. (OTS) (PB 121537). Single crystals of CdS and ZnS with and without controlled impurity additions (In, Mn, Pb, and O) were grown. The crystals were examined for index of refraction, absorption coefficient, dielectric constant, resistivity, photoconductivity, rectification and photovoltaic effects. Also, preliminary experiments on the radiation effects from high energy electrons were made.

Investigation of Mixing in Traveling-Wave Tube Amplifiers, by G. A. Gray. California University. Microwave Tube Group, Berkeley, Calif. Nov. 1955. 48f. drawing, diagrs., graphs. Mi \$3.30, enl pr \$7.80. (LC) (PB 123917). This report is a preliminary study to evaluate the mixing of two signals on an electron beam by means of backward-wave interaction. The method employs two-helix type backward-wave structures in tandem, one of which acts as a voltage-tunable oscillator while the other furnishes a means of introducing the signal onto the beam. This study has indicated that conversion efficiencies of the order of those obtainable from crystal mixers should be possible with this type of tube.

Ultrasonic Soldering of Aluminum. J. B. Jones and J. G. Thomas, Reroprojects Inc. for Frankford Arsenal, U. S. Army. Feb. 1955. 68 pages. \$1.75. (PB 121551) (OTS) Aluminum joints were prepared with 21 tinbase and cadmium-base low-melting solders and evaluated by exposure to a corrosion environment of low conductivity, aerated, distilled water at 95°C. Ultrasonic techniques proved effective in fluxless timing with all the solder alloys. The report includes an examination of factors significant to ultrasonic soldering, particularly the ultrasonic exposure time and soldering temperature relationships. Also studied are the effects of joint configuration and filler metal thickness on joint strength.

Development of Subminiature High Temperature Capacitors, Balco Research Laboratories for Wright Air Development Center, Mar. 1955. 79 pages. \$2. (PB 111729) (OTS) Teflon met or exceeded all requirements for replacement of mica capacitors (specification MIL-C-5A) under temperatures from minus 60° to 200°C. The single exception was r-f current rating, which could not be applied to metalcased units because of overheating. At the conclusion of the research, only two obstacles remained before Teflon capacitors could replace mica units in almost any application. The problems, neither serious, were stabilization of capacitor elements and encasement for radio-frequency operation.

A Study of Environmental Temperature and Pressure Effects on the Plate Dissipation Rating of Receiving Tubes: Part 2. B. M. Schmidt, University of Dayton for Wright Air Development Center. Dec. 1955. 40 pages. \$1. (PB 121780) (OTS) This report supplements Part with information on plate dissipation rating extrapolation curves for certain subminiature tube types; general curves showing constant plate temperature contours; evidence showing that internal tube temperatures are not directly affected by environmental conditions; an empirical method for determination of the maximum bulb temperature; and confidence limits on maximum bulb temperature and plate temperature showing variation by manufacturer.

Test Apparatus for Ferroelectric Memory Condensers. C. F. Pulvari, The Catholic University of America for Wright Air Development Center. Dec. 1955. 29 pages. 75 cents. (PB 121204) (OTS) Design and construction data are described for a test apparatus for ferroelectric memory condensers which enables quick determination of optimum operating conditions and selection of condensers with identical properties for a particular application. The apparatus was designed for use in development of improved bistable storage condensers.

Phosphorescent and Fluorescent Material. L. H. Dawson, Naval Research Laboratory, Dec. 1956. 50 pages. \$1.25. (PB 121541) (OTS) This is a survey report of the properties and military uses of phosphorescent and fluorescent materials. Vision at low values of illumination is discussed, along with methods of photometry and colorimetry as applied to measurement of luminosity and color of luminous material. Characteristics of commercially-obtainable material are shown, and some possible uses are suggested.

Development of Ferroelectric Ceramics. J. D. Wallace and M. F. Pressler, U. S. Naval Air Development Center. Feb. 1953. 59 pages. \$1.50. (PB 121418) (OTS) Facilities and methods devised by the Navy for the ceramic forming of transducers of barium titanate are described. Test pieces of 94 percent barium titanate, 4 percent lead titanate and 2 percent barium stannate were formed which showed considerable promise for use as transducer elements in hydrophones. Laboratory facilities are described by text and photographs in the report, along with methods of evaluating the transducers.

Research consisting of Spectrographic Analysis of Samples and Development of Spectrographic Methods for the Determination of Impurities in Pure Silicon. Third Quarterly Report. J. M. Morris, Metal Hydrides Inc. for Air Force Cambridge Research Center. Mar. 1956. 6 pages. 50 cents. (PB 121539) (OTS) A procedure for preparation and excitation of samples of silicon tetraiodide compounds for spectrochemical analysis is outlined. The work was part of a program to improve methods of analysis of high purity silicon.

Packaging and Integrating Printed Circuit Electronic Assemblies. E. D. Alfred, L. G. Brodrick, C. W. Everhart, and M. E. Hinebaugh, of the P. R. Mallory and Company, Inc., for Signal Corps, U. S. Army. Part I. Sept. 1954. 52 pages. \$1.50. (PB 121163) (OTS). Part II. Sept. 1954. 144 pages. \$3.75. (PB 111714) (OTS). Four systems of packaging and integrating Auto-Sembled card-type printed circuit assemblies are analyzed in Part I. The systems, devised for use with RF, IF, and AF amplifiers, include plug-in, stacked mechanical, distributed connector, and mechanically cascaded packages. Part II contains a design guide for packaging and integrating the four successful Auto-Sembled assemblies. A five-step procedure is described which allows pre-fabrication evaluation of a proposed design to assure adequacy of circuitry, ruggedization, climatic protection, thermal adequacy, size and weight, maintenance, and integration.

Effect of Air Exposure on Various Cathodes for Demounting Vacuum Systems, by G. A. Haas and J. T. Jensen, Jr. NRL. Nov. 1956. 10 pp. photos, graphs. 50 cents. (OTS) (PB 121563). Various nickel matrix and tungsten matrix cathodes have been investigated for applications in demountable vacuum systems. The two W matrix cathodes (Philips BP-1B and C P-2B) displayed true diffusion properties which allowed the emission level to recover after each air exposure. However, both of these cathodes have the disadvantage of lengthy activation time and show a strong susceptibility to self-poisoning if the tube parts cannot be cleaned or baked after each air exposure.

Magnetic-Amplifier Potentiometer Servo System with Vacuum-Tube or Transistor Preamplifier, by D. D. Wright and W. H. Raskin. U. S. Nav. Ord. Lab. Aug. 1955. Mi \$2.40, ph \$3.30. (LC) (PB 120822). The use of magnetic amplifiers in a potentiometer-type computer servo is described. Both vacuum tubes and transistors are considered for input stages, to obtain the necessary high input impedance. Magnetic amplifiers are used in the latter stages to take advantage of their ruggedness and ease of compensation. No complex circuitry is required to couple the vacuum tubes or the transistors to the magnetic amplifier.

Effect of Transverse Compressional Stress on Magnetic Properties, by R. E. Fischell, U. S. Nav. Ord. Lab. Dec. 1954. 36 pp. photos, drawing, graphs, table. Mi \$3, ph \$6.30. (LC) (PB 122056). Toroidal, laminated cores of several important magnetic materials were tested for their magnetic properties at compressional stresses ranging from 0 to 500 pounds per square inch. The compressional stress was applied in a direction perpendicular to the plane of the laminations and perpendicular to the direction of the magnetic field. The materials tested were 3.5% and 6.4% silicon-iron, 81% and 90% nickel-iron, and both hydrogenand air-annealed samples of AEM 4750, 12 Alfenol and 16 Alfenol. Tests were run at frequencies of zero, 60, and 400 cycles per second. The experimental results indicate that magnetic effects of transverse compressional stress are dependent on the magnitude and independent of the sign of the magnetostriction.

The Study of Properties of Single Crystals for Use as Detectors and Crystal Counters. S. J. Czyzak and others, University of Detroit for Office of Naval Research. Oct. 1955. 42 pages. \$1.25. (PB 121537) (OTS) Single crystals of cadmium sulfide and zinc sulfide were grown and their optical, electrical and structural properties studied during this investigation of potential use of the crystals as infra-red detectors and crystal counters. A procedure is given for growing single synthetic crystals with and without controlled impurity additions such as indium, magnesium, lead and oxygent. The crystals were examined by index of refraction absorption coefficient, dielectric constant, resistivity, photoconductivity, rectification and photovoltaic effects. Preliminary experiments also were made on the radiation effects from high energy electrons.

#### **PATENTS**

Complete copies of the selected patents described below may be obtained for \$.25 each from the Commissioner of Patents, Washington 25, D. C.

Pulse Communication Systems, #2,786,100. Inv. Chas. W. Earp. Assigned International Standard Electric Corp. Issued March 19, 1957. Two indices are derived from each sample of a signal wave, each index being representative of the sample in terms of a scale, the two indices being different but related so that the sample may be reconstructed from the two indices.

Television Pick-Up Tubes, #2,786,157. Inv. R. Theile. Assigned Pye Ltd. Issued March 19, 1957. A secondary electron multiplier, comprising at least one dynode and a collector electrode, is arranged in an enclosed hollow structure surrounding the scanning beam in a charge-storage type pick-up tube. A potential is applied to the multiplier and to an electron-permeable electrode between the multiplier and the target for producing a field-penetration ratio of the adjacent dynode through the electron-permeable electrode to the target which is less than 10%.

Servo-Regulated Microwave Energy Source, #2,786,180. Inv. S. B. Cohm. Assigned Sperry Rand Corp. Issued March 19, 1957. The refection coefficient of a test load is measured as a function of frequency by detecting the modulation component in the reflected wave, amplifying the fundamental harmonic thereof and relying on its amplitude. The modulation component of the generator output is independently amplified and the pulse timeduration of the output of the pulse modulator is controlled by a signal derived therefrom.

Antenna, #2,786,200. Inv. L. Gant. Issued March 19, 1957. Horizontal, parallel, oppositely directed conductors, offset in the same horizontal plane are connected by a reversely-curved intermediate portion coplanar therewith. A straight, second coplanar conductor is arranged parallel to the first conductor at one side and in relatively close spacing to the adjacent conductor section on the other side. Leads are connected to the two ends of the reversely-curved intermediate portion.

Television Range Finder, #2,786,096. Inv. R. C. Palmer. Assigned Allen B. Du Pont Laboratories, Inc. Issued March 19, 1957. Two television signals corresponding to two adjacent views of an object field are independently displayed on a monitoring viewing screen. The proportion of the two signals in a combined signal voltage, representing a single complete view of the object field, is adjustable as well as the relative positions of the two images on the monitoring screen.

Tuning Unit, #2,755,448. Inv. W. A. Fuller. Assigned Sarkes Tarzian, Inc. Iss. July 17, 1956. A tuner for the ultra-high frequency television band consists of a conducting cavity and a variable capacitor inside thereof, the rotor being conductively connected to one casing wall and the stator to the opposing casing wall. Oppositely disposed coupling loops extend into the casing; the extent of projection of at least one loop varies with rotation of the capacitor rotor.

Antenna Combined with Magnetic Compling Core, #2,755,468. Inv. G. Mountjoy. Iss. July 17, 1956. A wide-frequency directional antenna comprises a plurality of rotatable magnetic cores, each having end portions for signal pick-up located at opposite ends and extending at an angle to a central portion. A stationary output coil is wound coaxially around and spaced from each central portion for free unitary rotation of all cores with their end portions and central portions in uniplanar relationship.

Ringing Circuit, #2,759,179. Inv. R. J. Kircher. Assigned Bell Tel. Labs., Inc. Issued August 14, 1956. Two transistor oscillator circuits feed their outputs to the coil of the same electroacoustical transducer. By alternatively operating the two transducers, an uninterrupted dual tone is provided.

Frequency Separating Apparatus, #2,760,011. Inv. C. E. Berry. Assigned Consolidated Electrodynamics Corp. Issued August 21, 1956. A wide-band amplifier comprises separate amplifying channels for low and high frequency components, their outputs being combined. A high-pass filter precedes the high-frequency amplifying channel, while the low-frequency amplifier is connected to the input and further receives the phase-inverted output of the high-pass filter.

Temperature Control, #2,782,246. Inv. A. D. Evans. Assigned Texas Instruments, Inc. Issued Feb. 19, 1957

Each phase of a threc-phase power supply for the R. F. generator of an electric furnace is controlled by a gas tube. A voltage de-pending on the difference of the actual furnace temperature and a reference temperature controls the period of conduction of these tubes, whereby the power supply to the furnace is controlled.

Cathode Follower Type Pulse Amplifier, #2,-783,316. Inv. G. L. Clapper. Assigned International Business Machines Corp. Issued Feb. 26, 1957.

A capacitor and resistor are dimensioned and connected into the cathode-grid circuit of a capacitively-loaded cathode-follower tube to provide regenerative feedback in response to a change in tube conduction of sufficient amplitude to raise the grid potential level above the potential level of the positive input pulse, thereby providing a cathode-follower circuit having an amplification factor greater than

High-Frequency Heating Applicators, #2,783,-346. Inv. H. R. Warren. Assigned National Cylinder Gas Co. Issued Feb. 26, 1957.

A reentrant resonator contains a metallic fin structure to provide inductance and ter-minating in an electrode adapted to form a capacitance with an opposing wall. A coupling loop surrounds the fin structure; the mutual inductance of the loop and the resonator can be modified.

Radio Transmitting and Receiving Signal System, #2,783,369. Inv. E. H. Weber. Assigned one-half to B. K. Olsson. Issued Feb. 26, 1957.

Each locomotive carries a constant-frequency carrier wave generator, and modulating signals, the frequency of which is linearly controlled by a driving linkage having a high ratio of reduction physically responsive to travel of the locomotive.

Automatic Gain Control System, #2,783,371.

Automatic Gain Control System, #2,183,311.

Inv. R. L. Frank. Assigned Sperry Rand Corp.

Issued Feb. 26, 1957.

The carrier and the side-band are each separately rectified in two receivers of a diversity system. The four rectified voltages are combined and the resultant voltage is used as an automatic gain control voltage for

Stereoscopic Television Means, #2,783,406. Inv. J. J. Vanderhooft. Issued Feb. 26, 1957.

A mask having alternate bars and slots is placed between two cathode-ray guns and the screen of a TV tube to produce thereon a representation of interlaced signals from the left and right guns, respectively. A lenticulated lens in front of the screen separately transmits the interlaced left and right presentations to the respective eye.

Structure for Transmit-Receive Electrode Switching Devices, #2,783,414. Inv. H. J. McCarthy. Assigned Bomac Laboratories Inc. Issued Feb. 26, 1957.

The ignitor electrode in a resonant-cavity, discharge gap, transmit-receive switch comprises a metal core surrounded by a sheath of insulating material leaving only the tip area uncovered. A spherical layer of non-emissive high resistance material, i.e., of oxides of the core and sheath material exclusively, surrounds the exposed tip area.

Precision Motor Drive Device, #2,783,426. Inv. R. R. Pittman. Assigned Southwestern Industrial Electronics Co. Issued Feb. 26, 1957.

The motor to be controlled drives a record. A recording head records a tuning-fork, constant-frequency signal on the record, which signal is picked up a predetermined distance from the recording head. A phase comparison of the tuning fork output and the picked-up signal results in an error signal which regu-lates the frequency of a variable-frequency oscillator which in turn regulates the motor

Phase Error Correction Apparatus for Color Television Indexing System, #2,782,252. Inv. G. A. Fedde. Assigned Philco Corp. Issued

A control signal is derived from parallel stripes of the screen having a carrier frequency equal to the applied scanning frequency and side-components representative of the actual scanning rate. The side-bands and the applied scanning frequency are combined to produce a signal having a nominal frequency equal to the nominal rate of scanning the screen and having phase variations indicative of the deviation of the actual from the applied scanning rate.

Film Recording from Cathode Ray Tube During Flyback by Infra-Red Release of Image Energy, #2,784,250. Inv. P. Schagen. Assigned Hartford National Bank and Trust Co. Issued

March 5, 1957.

The screen of a television receiving tube contains luminescent material which renders a latent image visible when activitated with infra-red light. Each latent image frame is during the flyback period to be activated visible and the visible image is projected onto a motion picture film. The optical projection path is blocked during the scanning interval.

Apparatus for Translating into Legible Form Characters Represented by Signals, #2,784,251. Inv. E. A. Young, A. D. Baker and R. H. Canaday. Issued March 5, 1957.

A first cathode-ray tube comprises a mosaic of symbol-containing areas energized in response to input signals and is adapted to produce derived signals representative of a symbol selected in accordance with the input signal which determines the region of the mosaic to be scanned. The derived signals are used to modulate the electron beam in a cathode-ray tube synchronized with the first tube to sequentially display the symbols.

Keyed Frequency-Modulated Carrier Wave System, #2,784,255. Inv. C. W. Earp. As-signed International Standard Electric Corp. Issued March 5, 1957. A train of time-modulated, constant-amplitude multi-channel pulses is produced. This train is converted into a wave having steps, each step corresponding to one pulse and the steps corresponding to certain pulses going in a specified direction, the steps corresponding to certain other pulses going in the opposite direction. A carrier is frequency-modulated with these stepped waves.

Transistor Amplifier, #2,784,262. Inv. R. P. Crow. Assigned Motorola Inc. Issued March 5, 1957. Two transistors are operated in pushpull. Two windings of a single-ended output circuit are so connected that signals from both transistors are applied to both windings.

Electron Discharge Devices of the Growing Wave Type, #2,784,339. Inv. N. E. Lindenblad. Assigned Radio Corporation of America. Issued March 5, 1957. Reactive impedances are coupled to the helical conductor at a plurality of points to by-pass high-frequency currents at frequencies higher than the highest operating frequency.

Color Television Receiver, #2,785,221. Ch. P. Carpenter, Assigned Westinghouse Electric Corp. Issued March 12, 1957. One series of the phosphor strips in a color television tube screen emits not only light of a specific color but also invisible light of short decay time when excited. The electron beam source is biased at a low level to excite this series of phosphor strips to emit invisible light energizing a device responsive thereto without substantial emission of visible light.

Binaural Sound Reproduction, #2,785,226. Inv. Emory G. Cook. Issued March 12, 1957. The two output signals of a two-sound-channel sysfed to a loudspeaker over a are each transformer. The two transformers are wound. respectively, on the end legs of a common core structure. Interfering signals introduced in each channel from the other channel through the core structure are suppressed.

Calling Subscriber Identifier Using Transistor Oscillator in Subsets, #2,782,259. Inv. T. L. Dimond. Assigned Bell Telephone Laboratories, Inc. Issued Feb. 19, 1957.

A transistor oscillator tuned to a different frequency is incorporated into each substation connected to one party line. Each oscillator can be interconnected with the common line by a manually-operated switch to be energized by the line and to transmit a signal of its specific frequency over the line.

Thermionic Valve Amplifying Circuits, #2,782,-264. Inv. G. A. Dodd and J. Boura. Assigned British Telecommunications Research Ltd. Issued Feb. 19, 1957.

Two tubes are connected in identical parallel circuits. The input signal is applied to each grid over a rectifier. The plates have separate loads and a common output circuit.

Push-Pull Transistor Amplifier, #2,782,267. Aviation, Inc. Issued Feb. 19, 1957.

An N-P-N transistor and a P-N-P transistor

are similarly connected to a single-ended ac input circuit, their output electrodes being capacitively coupled to the same output terminal. Each transistor has its own complete and separate direct current bias path but contributes alternating output to the common output terminal.

Magnetostrictive Relay, #2,782,280. Inv. L. R. Bickford. Assigned International Business Machines Corp. Issued Feb. 19, 1957.

A strip of material having a positive magnetostrictive coefficient and a strip of the same material oriented to have a negative magnetostrictive coefficient are bonded together and clamped at one end. A magnetic polarizing circuit is arranged to drive the free end of the bonded strips.

Spatial Harmonics in Electron Beams, by Rudolf Mueller. "Arc. El. Uber." Dec. 1956. 6 pp. (See featured abstract, first page of this Electronic Sources section.)

1957. The target of an electron camera tube includes a material which is normally insulat-ing. However, this material becomes conduc-tive when bombarded with electrons.

Radiation Powered Transistor Circuit, #2,777,-057. Inv. J. I. Pankove. Assigned Radio Corporation of America. Issued Jan. 8, 1957. The series combination of a rectifier and an energy storage circuit is connected in parallel to the coil connected to the receiving antenna for deriving biasing voltages from the received car-rier-wave energy. A transistor is supplied with the biasing voltages as well as with signal

Blanking Circuit for Electron Multiplier, #2,-777,948. Inv. J. A. Herderson. Assigned Farnsworth Research Corp. Issued Jan. 15, 1957. The input signal is applied to an electron multiplier, the secondary emissive electrodes of which are normally biased to successively greater positive potential. The blanking pulse is applied to one of the secondary emissive electrodes in positive polarity only and simultaneously to succeeding secondary emissive electrodes in negative polarity only, whereby the input signal is blocked for the duration of the blanking pulse.

Delay-Line Trigger Circuit, #2,755,381. Inv. E. L. Woodcock. Assigned Sperry Rand Corp. Iss. July 17, 1956. A plurality of blocking oscillators are connected in shunt across a delay line, the plates of the oscillators being capacitively coupled to spaced points on the line. The blocking oscillators have a recovery time substantially longer than the delay time intervals between the spaced points on the line, whereby the blocking oscillators feed energy pulses back to the line which regenerate the input pulse so that a sharp output pulse can be obtained at any desired time interval after an initiating input pulse.

Magnetic and a Photoelectric System for Replacing Metallic Make-and-Break Contacts in Automobile Ignition Systems, #2,787,649. Inv. J. W. Ballard and M. M. Moorhead. Assigned The Commonwealth Engineering Co. of Ohio. Issued April 2, 1957. The grid of a normally non-conductive grid-controlled gas tube is connected to an induction coil which is positioned in a rotating magnetic field, the rotation being synchronous with that of the distributor. The plate circuit of the tube closes the ignition current circuit; this circuit includes a transformer. The gas tube current is quenched after a predetermined interval.

Television Multiplex System and Apparatus, #2,787,660. Inv. K. Teer. Assigned North American Philips Company. Issued April 2, 1957. Two carriers, the upper sideband of one carrier at least partially overlapping the lower sideband of the other carrier, are phased for compensation of the overlapping interference. The sum plus a constant signal and the difference plus a constant signal of two TV signals are transmitted over the two carriers, respectively. The receiver comprises two demodulators and circuitry to add and subtract the two demodulated TV signals.

Push-Pull Series Amplifier, #2,787,672. Inv. E. L. Crosby. Assigned Bendix Aviation Corp. Issued April 2, 1957. An inductor couples the output signals of the driving stage to the grids of the driven stage, both stages being push-pull connected. Serial flow of space current through the criven and driving stages is established by a resistor connecting both cathodes of the driven stage to a junction on the inductor; the two sections of the inductor on opposite sides of the junction are inductively coupled.

Radio Wave Tuners, #2,788,447. Inv. S. A. Johnson. Assigned Polytechnic Research & Development Co., Inc. Issued April 9, 1957. One plate of a tuning capacitor is periodically and continuously moved to produce a frequency output varying about a mean frequency. A further motion may be imparted to either capacitor plate decreasing the mean capacity of the capacitor with an increase in the resonant frequency of the circuit.

Traveling Wave Electron Discharge Device, #2,788,464. Inv. R. H. Geiger. Assigned International Telephone and Telegraph Corp. Issued April 9, 1957. A gaseous discharge device is positioned near the helix of a traveling wave tube to absorb some of the r-f energy, the energy absorption being effected by ionization of the gas. Thus attenuation of the electromagnetic wave propagated along the helix is accomplished.

Active Transducer, #2,788,496. Inv. J. G. Linvill. Assigned Bell Telephone Laboratories, Inc. Issued April 9, 1957. A negative impedance converter is connected in series between two passive networks. The ratio of the driving point impedances of these networks at the terminals facing the converter is a numerical factor equal to the impedance conversion ratio of the converter.

Instantaneous Automatic Gain Control for Pulse Circuits, #2,787,673. Inv. C. C. Cutler. Assigned Bell Telephone Laboratories. Issued April 2, 1957. The output of a traveling-wave amplifier is fed to a pair of rectifiers having characteristics which coincide only at a particular signal level. The rectifiers outputs are differentially combined to control the traveling-wave tube gain for the successive pulse.

Receiver for Two Radio Frequency Bands, #2,-787,703. Inv. G. J. Lubben. Assigned North American Philips Co., Inc. Issued April 2, 1957. The superheterodyne receiver comprises a local oscillator adapted to produce two harmonically related local oscillations. A suitable arrangement of mixing and amplifying stages are simultaneously switched for alternative reception of a relatively high or a relatively low ultra-high frequency wave.

Transducer Tube, #2,786,955. Inv. J. K. Trolan. Assigned Research Corp. Issued March 26, 1957. A field emission cathode having an electron emitting portion of radius of curvature not exceeding about 10<sup>-3</sup> centimeters, a collector electrode and an auxiliary electrode transparent to electrons and adjacent the emitting portion of the cathode are mounted in an evacuated envelope. Relative motion of an electrode of this assembly will alter the field strength at the electron emitting portion of the cathode and thus be transformed into an electrical signal.

Printed Circuit Shield, #2,786,984. Inv. M. W. Slate. Assigned Allen B. Du Mont Laboratories, Inc. Issued March 26, 1957. Two inductance coils are provided at the bottom and the top surfaces, respectively of a printed circuit base plate; the two coils are planarly offset. Two grounded Faraday electrostatic shield members are provided, each overlapping one of the coils.

Signal Translating Device, #2,786,880. Inv. K. G. McKay. Assigned Bell Telephone Laboratories, Inc. Issued March 26, 1957. In an electric discharge tube, an impurity-type semiconductor is positioned between a collector electrode and a base electrode. The collector electrode comprises a metal film through which electrons are bombarded into the semiconductor to a depth of penetration not substantially beyond the inner boundary of the barrier layer adjacent to the metal film. A reverse bias is applied to the barrier layer.

Color Television Receiver, #2,786,886. Inv. A. M. Levine. Assigned International Telephone and Telegraph Corp. Issued March 26, 1957. The television signal contains high frequency components representative of a change of color in elemental areas of the image. These components are filtered out and generate blanking signals which are applied to an electrode of the viewing tube to emphasize lines of demarcation between differently colored areas of the image.

Stereophonic Sound and Rerecording System, #2,786,894. Inv. O. B. Gunby. Assigned Radio Corporation of America. Issued March 26, 1957. The reproducer of a sound track feeds three channels, each channel including a variable attenuation pad and a switch alternatively connecting each channel to a recorder or to a loudspeaker, the three loudspeakers being at different suitable positions with respect to a picture screen.

Subscription Television System, #2,788,387. Inv. W. S. Druz. Assigned Zenith Radio Corp. Issued April 9, 1957. A charging signal is transmitted simultaneously with the coded television signal. The charging signal is used to record a marking representing the charging information and indicating intervals of utilization of the television signal by the subscriber.

Phase Converter Circuit, #2,788,398. Inv. A. Harlel. Assigned Radio Corporation of America. Issued April 9, 1957. A balanced input signal is applied between the grid and the junction of a serially-connected, capacitively by-passed bias resistor and a grounded high impedance cathode signal resistor. A high-impedance grid-signal resistor is connected between the grid and ground. A suitable balanced signal input circuit and a grid return resistor are provided. The single-ended signal is derived from the plate.

Oscillator, #2,788,446. Inv. W. J. Cerveny and D. S. Wise. Assigned Cleveland Patents. Issued April 9, 1957. The frequency-determining tuning circuit of a tube oscillator comprises a parallel conductor transmission line. The line is terminated in an element of variable electrical characteristic to adjust its effective electrical length. A continuous variation of the electrical characteristic of this terminating element results in a frequency-modulated wave.

Diversity Receiving System, #2,786,133. Inv. E. Dyke. Assigned Motorola, Inc. Issued March 19, 1957. A dielectric phase shifter is included in a wave-guide positioned between the two antennas in a diversity system for a microwave receiver. When the power in the receiver decreases below a first predetermined value, the dielectric phase shifter is moved in one direction, when the power reaches a second predetermined value lower than the first predetermined value, the dielectric phase shifter is moved in the opposite direction.

Superheterodyne Receiver with Common Variable Saturating Means Having Tracking Provision for Tuning Inductances, #2,786,940. Inv. G. B. Crofts. Assigned National Union Electric Corp. Issued March 26, 1957. The two inductors for tuning the local heterodyne oscillator and the r-f amplifier, respectively, are mounted in a steady magnetizing field common to both. A high frequency winding of each inductor is enclosed in a casing of high frequency iron, the intensity of the field and thus the permeability of the casings is adjustable simultaneously. A movable magnetic member is provided which is adjustable with respect to one inductor for tracking.

Electrostrictive Time-Delay Signal-Translating Device, #2,764,481. Inv. C. J. Hirsch. Assigned Hazeltine Research Inc. Iss. July 10, 1956. An electrical signal is applied to an input transducer transforming it into longitudinal compression waves effective to cause transverse motion of an adjacent medium adapted to propagate elongated stress waves. An output transducer comprises an electrostrictive element abutting the medium and disposed paralel to the direction of wave propagation therein, the transverse motion of the medium generating a corresponding electrical signal in the output transducer.

Wave-Guide Direction Changer, #2,754,488. Inv. J. F. Zaleski. Assigned General Precision Laboratory, Inc. Iss. July 10, 1956. The second rectangular wave-guide section is joined at right angles to the first rectangular wave-guide section near its conductive termination; both sections are for the TE<sub>1,0</sub>-mode. The longer transverse direction of the second wave-guide extends parallel to the longitudinal direction of the first wave-guide and the shorter transverse direction of the first wave guide extends parallel to the longitudinal direction of the second wave-guide. An elongated conductive member projects in a specified direction into the first wave-guide from the junction.

High Frequency Oscillator, #2,787,711. Inv. M. S. Glass. Assigned Bell Telephone Laboratories, Inc. Issued April 2, 1957. An iris filter is positioned transversely in a wave guide coupled to a generator which is capable of oscillating in more than one mode. The iris filter is resonant at the frequency of the desired mode and positioned from the generator a predetermined, distinct electric distance so as to load a spurious mode of oscillations.

Signal Stage Amplifier-Detector-Amplifier, #2,-785,299. Inv. J. G. Spracklen. Assigned Zenith Radio Corp. Issued March 12, 1957. An amplitude-modulated signal is applied to the control grid of a cathode-grid-accelerating electrode section of a multi-grid tube. A resonant two-terminal load-circuit is connected between a second control-grid and the cathode adapted to develop an amplified signal. The second control grid is also connected to operate as a demodulator and amplifier for the signal.

Indicator for Television Images, #2,784,247. Inv. W. L. Hurford. Assigned General Electric Co. Issued March 5, 1957.

A series of pulses synchronized with the line-by-line and field-by-field scanning rhythm of a television image is combined with the television image signal. A definite pattern, not present in the image, is thus produced.



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Chemical section analyzing







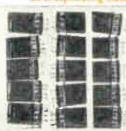
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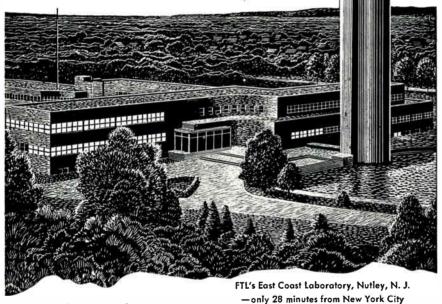
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Federal Telecommunication Laboratories

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AND TELEGRAPH CORPORATION

(Continued from page 156) tric breakdown strength increases of at least 20% on most, and sometimes as much as 100%. In very few cases has the breakdown strength decreased during normal operation, probably due to slight leaks or gas pockets.

#### Current Interruption

For vacuum capacitors and tubes, theories of diffusion, vapor pressure, mean free path of molecules, and dielectric breakdown are most important. For vacuum relays yet another basic set of theories is needed—that covering the properties of current interruption in high vacuum.

Probably the best theory of the action during arc interruption is that the rapid radial diffusion of current carrying particles allows a very rapid build up of dielectric strength to a point where current flow, due to continual field emission and breakdown, is suddenly no longer possible.

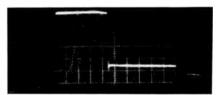


Fig. 9: Oscillograph-2 amp., 20 v/cm.

Other basic factors all help to bring this about. An exceptionally low voltage drop across the arc while current is flowing allows high current interruption with a very little arc energy or heat resulting and with very little contact material vaporized. This voltage (for tungsten) is in the order of 11/2 v. for currents in the order of 1 a. and approaching 2 v. for 50 to 100 a. The higher the current and the higher the impressed voltage the longer the arc time, although the arc voltage remains fairly constant. This is approximately 10% of mercury vapor arc voltage.

Oscillographs showing the low arc drop and the arc time as well as the dielectric recovery speed are shown in Figs. 9 and 10. Taken at an oscilloscope sweep speed of 50µsec/cm (not to scale on photograph) Fig. 9 is for 2 amp. dc at 20 v/cm showing a dielectric recovery rate of less than 10 µsec. Figure 10 shows a typical shot of

170

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Developed for use in limited space at ambient temperatures ranging from -50°C to +100°C. Encapsulated to resist adverse environmental conditions. Output voltages from 20 to 160 volts; output currents of 100 microamperes to 11 MA. Bulletin SD-18



Designed for long life and reliability in Half-Wave, Voltage Doubler, Bridge, Center-Tap Circuit, and 3-Phase Circuit Types, Phenolic Cartridge and Hermetically Scaled types available. Operating temperature range: -65°C to +100°C. Specify Bulletin H-2

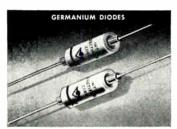


The widest range in the industry! Designed for Radio, Television, TV booster, UHF converter and experimental applications. Input ratings from 25 to 156 volts AC and up. DC output current 50 to 1,200 MA. Write for application information. Bulletin ER-178-A



For all DC power needs from niterowatts to kilowatts. Features: long life; compact, light weight and low initial cost. Ratings: to 250 KW, 50 ma to 2,300 amperes and up. 6 volts to 30,000 volts and up. Efficiency to 87%. Power factor to 95%. Bulletin C-349

#### GERMANIUM



This series of general purpose, high quality point contact diodes provide excellent rectification efficiency for very high frequency applications. Special "RED DOT" series available for ambient temperatures from —55° C to +100° C. Bulletin SR-140.



Extremely low reverse leakage values make this series ideal for magnetic amplifier applications. These units utilize 10 amp junctions—26 to 66 AC input volts rms—are available in a wide range of circuit types and DC current ratings. Bulletin SR-148.

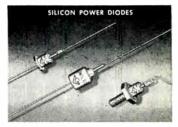


Engineered for heavy power applications, these highly efficient forced air cooled units feature moisture and corrosion resistant housings. A complete series in each of 3 current ratings: 150, 330 and 500 Amperes © 26 to 66 volts rms. Request Bollstin GPR-2.

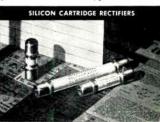


Liquid cooled for maximum power in minimum space, Junction rating: 670 amps at 26 to 66 volts rms. Housed in high-conductivity copper cast around special steel coils. Water, oil or other accepted coolants may be used. For complete data. Bullstin GPR-2.

#### SILICON



Hundreds of types in three basic styles, for operating temperatures from -55°C to +150°C. Up to 800ma DC output current per junction over a voltage range of 50 to 1,000 PIV. Hermetically scaled. For complete information on all types. Bulletin SRA.



The answer to tough miniaturization problems! Ratings for high temperature applications: from 1000 volts PIV at 100ma half-wave DC output to 16,000 volts PIV at 45ma. Hernetically scaled, metallized ceramic housing. Request Bulletin SR-139B



Specifically engineered for industrial applications—the most conservatively rated silicon rectifiers in the industry! Rugged all-welded construction and hermetic sealing mean greater reliability—longer life. Types available in 3 series. Request 80/lein 58-1438.



These units consist of hermetically scaled junction diodes mounted on copper cooling fins, stacked to include the interconnections required for specific circuits. Junction ratings: 1.25 amps. DC output; 70 to 350 AC input volts rms. Request Bulletin SR-137A.



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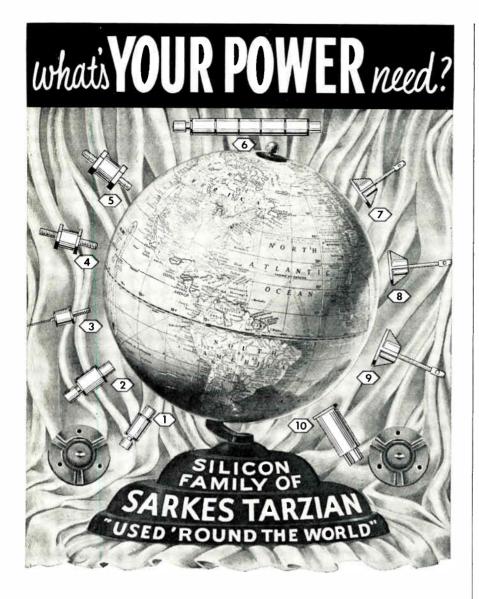
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(Continued from page 170)

the amplified dc arc voltage at 20 a. at 5 v/cm. The  $\frac{1}{2}$  in. diameter contacts were being opened at a rate of about 5 ft/sec.

The oscillographs in Fig. 6 show the radial diffusion effect of current interruption at 60 a. RMS, 6000 v. RMS, 60 cycle capacitive load. The wave shapes shown are at a sweep speed of approximately 4  $\mu$ sec/cm showing that field emission and diffusion frequencies of over 1 MC are definitely present.

The oscillographs in Fig. 7 show interruptions at 50 a. RMS, 6000 v. RMS, 60 cps, with tungsten contacts at very high speed and forcing current zero. The contacts opened about ½ cycle before current zero on the first 2 shots and about 0.02 cycle before current zero on the third. This also shows the very high frequencies which are present on interruption.

The oscillograph in Fig. 8 at a sweep speed of 100 µsec/cm shows an interruption at 50 a., 6000 v. RMS with a different type of contact and proper opening speed.

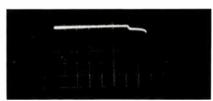


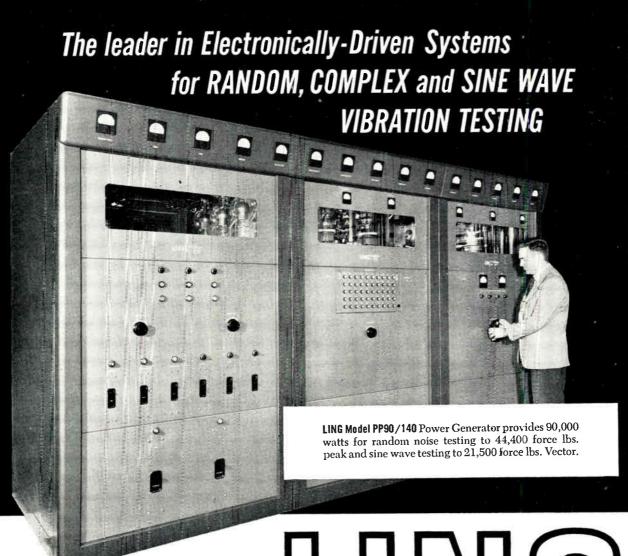
Fig. 10: Arc voltages—20 amp., 5 v/cm.

Notice how smooth the interruption is even with extreme amplification with no appreciable current chopping. This is an ideal type of interruption, one which will be consistently possible for a vacuum switch using proper contacts and proper mechanical motion.

For the higher current interruption and insulation necessary for higher voltages the mechanical movement of contacts is attained through the sealed metallic bellows.

Fig. 3 shows a size comparison of one of the smaller vacuum switches and one of the larger, bellows actuated vacuum switches. The smaller unit is 2 in. in dia. by 3 in. long and is a 50 a. 20 kv peak test unit with  $\frac{1}{8}$  in. dia. tungsten contacts for use in electronic equipment. The larger unit which is 6 in. in dia. and 14 in. long is used on 1200 a. 18 kv 60 cycle power sys-

(Continued on page 176)



complete systems...Ling engineers and manufactures a complete line of electronically-driven vibration systems (see specifications chart below). These systems include high power vibration generators (such as shown above), systems control console, mechanical shaker, and all necessary accessory equipment integrated to handle your specific vibration testing requirements.

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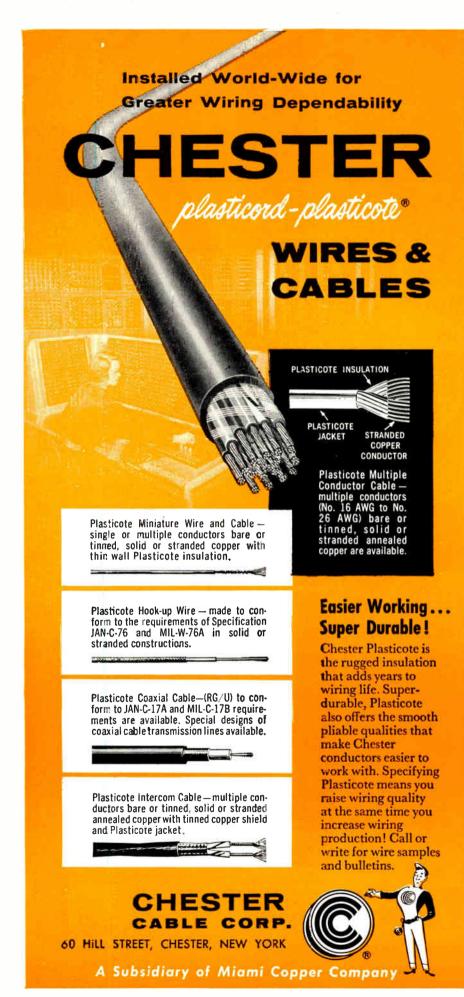
ARMATURE PROTECTOR MODEL REOUIRED	SHAXER FORCE OUTPUT			ELECTRONIC POWER SUPPLIES		
	RANDOM NOISE					
	FORCE LBS. REAK	FORCE-LBS. RMS.	SINE WAVE FORCE-LBS. VECTOR	AMPLIFIER PLATE DISSIPATION	RATED CONTINUOUS POWER OUTPUT	MODEL No.
_		_	70	500 watts	250 warts	PA-250-B
			100	800 watts	500 watts	PA-500-B
AP-5-A		!	200:	2,000 watts	1,000 watts	PP-1/2-A
AP-5-A	1,500	500	800	4,000 watts	3,500 watts	PP-3.5/4-A
AP-10-/	2,520	840	1,200	8,000 watts	7,000 watts	PP-7/8-A
AP-20-A	7,500	2,500	3,500	22,000 watts	22,000 watts	PP-20/20-C
AP-40-	10,500	3,500	5,000	44,000 watts	44,000 watts	PP-40/40-B
AP-60-/	15,000	5,000	7,00C	80,000 watts	60,000 watts	PP-60/80-A
AP-60-A	26,400	8,800	12,500	140,000 watts	90,000 watts	PP-90/140-A
AP-60-/	44,400	14,800	21,500	140,000 watts	90,000 watts	PP-90/140-A



ELECTRONICS, INC.

5120 West Jefferson Boulevard • Los Angeles, California

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(Continued from page 174) tems. It can be used for 230 kv power line switching by actuating several units simultaneously in series. It has 1 in. dia. solid tungsten contacts, and can interrupt sizable amounts of power including high voltage short circuit currents. Due to their capability of always interrupting at the first current zero on power frequencies, with no restrikes, vacuum switches are being widely used for switching large banks of high voltage capacitors and long transmission lines.

Two other new vacuum switches are shown in Figs. 1 and 2. Fig. 1 is a complete overload circuit breaker for use at 12 to 15 kv class 60 cycle and dc power. This instantaneous tripping unit has ranges of 50 ma to 600 a. in 5 to 1 steps in either dc, single phase ac, or 3 phase simultaneous trip free, fail safe, operation. Since the contacts must open only a distance of 5/32 in. this makes possible a trip time of less than 4 to 10 msec, (approximately ½ cycle mechanical trip time or less), much faster than any other type of power circuit breaker now in use. The maximum continuous operating current for this unit is 200 a. with a tentative maximum interrupting rating of 1500 to 2000 a. RMS. Fig. 1 is an 18 kv class unit latching contactor for 400 a. continuous duty.

With the proper timing mechanism set to open up contacts just before current zero, there are tremendous possibilities for interrupting very high ac short circuit currents at high voltage with these types of switches.

For dc power interruption one solution for high current high voltage interruption shows very good results. The use of a reasonable sized capacitor in parallel with the vacuum relay contacts allows satisfactory operating at high voltage just as it has done in the past for lower voltages.

#### REFERENCES

REFERENCES

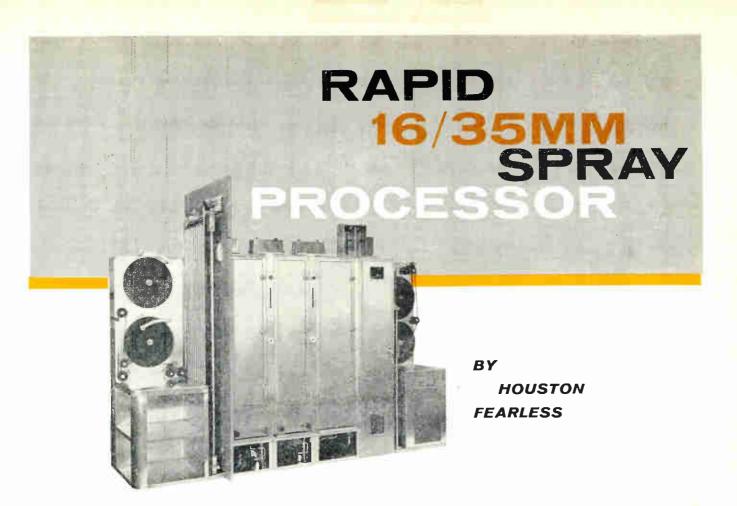
New Developments in Vacuum Relays, Hugh C. Ross, Jan. 1956, Electronic Industries & Tele-Tech, page 58.

Handbook of Chemistry & Physics, 37th edition, 1955-56, Chemical Rubber Publishers Co., Cleveland, Ohio.

Rare Metals Handbook, C. A. Hampel, 1954, Reinhold Publishing Corp., New York, N. Y.

Scientific Foundations of Vacuum Technique, Saul Dushman, 1949, John Wiley & Sons, New York, N. Y.

Materials Technology for Electron Tubes, Walter H. Kohl, 1951, Reinhold Publishing Corp., New York, N. Y.



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Company Position \_\_\_\_\_

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# New Tech Data

(Continued from Page 134)

#### Silicone Rectifiers

Price list No. 8 contains complete information and prices on silicone rectifiers. Includes a series of blue-print type drawings giving both physical and electrical specifications for various types. Sarkes Tarzian, Inc., Bloomington, Ind.

Circle 167 on Inquiry Card, page 201

#### Manipulator

Brochure describes the model 101-A manipulator, an ultrasonic inspection search tube positioner manufactured by Tepco, 936 E. Arques St., Sunnyvale, Calif. Bulletin is complete with specifications and photographs.

Circle 168 on Inquiry Card, page 201

#### "Rocket" Switch

Data sheet 120 gives complete mechanical and electrical specifications and photographs of a switch that was designed specifically for use in aircraft rockets. Switch unit is environment proved and will resist corrosive propulsion gases. Microswitch, div. of Minneapolis-Honeywell Regulator Co., Freeport, Ill.

Circle 169 on Inquiry Card, page 201

#### Transistorized Instruments

Kay Electric Co., 14 Maple Ave., Pinebrook, N. J., has issued a 4-page bulletin describing a new line of transistorized test equipment, including beat frequency audio oscillator and multi-crystal controlled transistor oscillator, a wide band transistorized audio amplifier and an audio video voltmeter. Bulletin is complete with photographs, specifications and descriptions.

Circle 170 on Inquiry Card, page 201

#### **Meter-Relays**

A 40-page catalog supplies complete information on meter-relays for original equipment or in self-contained controlled packages. Circuits for providing different types of control action are discussed. Included in the catalog are API panel meters and auxiliary control components complete specifications, photographs, price lists and various circuit diagrams. Assembly Products, Inc., Chesterland, Ohio.

Circle 171 on Inquiry Card, page 201

#### Magnetic Amplifiers

Four hundred and 60 cycle magnetic amplifier data and specifications are provided in the 16-page product catalog from Litton Industries, 4910 Calvert Rd., College Park, Md.

Circle 172 on Inquiry Card, page 201

#### **Epoxy Shells**

Complete catalog information on the new molded epoxy "N-Case" shells is available from Epoxy Products, Inc., 137 Coit St., Irvington, N. J. Shells make it possible to insert a component directly into the shell, pour epoxy casting compound in after it, and end up with a completely encapsulated component.

Circle 173 on Inquiry Card, page 201

#### **Electron Tubes**

A 24-page booklet issued by State Labs, Inc., 649 Broadway, New York 12, provides physical and electrical specs on L. M. Erickson's line of ruggedized-long life, 10,000-hour electron tubes.

Circle 174 on Inquiry Card, page 201

#### Oscillographs

An 8-page folder, illustrating and describing 5 models of its multi-channeled rack mounting oscillographs has just been published by the Brush Electronics Co., div. of Clevite Corp., Cleveland, O. Complete with photographs, specifications, engineering features, operating information and accessories.

Circle 175 on Inquiry Card, page 201

#### **Extension Sleeves**

Bulletin 257, from Pacific Automation Products, Inc., 100 Airway, Glendale, Calif., describes a line of extension sleeves for AN connectors that increases the space available on the back shell area. Adapter sleeves have designed "Step up" or "Step down" feature. In addition, a scientific method of specifying or ordering exact extension and adapter sleeves required is given in a chart form.

Circle 176 on Inquiry Card, page 201

#### **Metal Stampings**

Bulletin No. 80, issued by Johnson & Hoffman Mfg. Corp., 31 E. 2nd St., Mineola, N. Y., describes and illustrates typical parts made by precision metal stamping and deep drawing.

Circle 177 on Inquiry Card, page 201

#### Transformers & Coils

A 34-page booklet has been issued by United Transformer Co., 150 Varick St., New York 13, that describes their latest line of transformers, reactors and filters. The brochure is complete with photographs, tables, graphs, complete specifications and prices.

Circle 178 on Inquiry Card, page 201

## for Engineers

#### Communications Equip.

This 2-color 98-page booklet describes in detail, with illustrations, a full line of equipment for airborne communications, navigation, control, instrumentation, amateur communications, broadcast, microwave relay, communication control, SSB H-F communications, ground navigation, HF VHF ground communication and many other systems components and accessories. Collins Radio Co., Cedar Rapids, Iowa.

Circle 179 on Inquiry Card, page 201

#### **Transformers**

New 4-page brochure describes a line of military and special commercial transformers manufactured by Laboratory for Electronics, Inc., 75 Pitt St., Boston 14, Mass. Components are manufactured to customer specifications and include high power pulse, hermetic military and open type military, sub-miniature binary and toroids.

Circle 180 on Inquiry Card, page 201

#### **Precision Gears**

Illustrated brochure, "Precision Fine Pitch Gears," from Fairchild Camera and Instrument Corp., Robbins Lane, Syosset, L I., N. Y., discusses precision gears as compared with commercial gears and the equipment employed in producing high quality precision gears. Quality control measures required for accuracy in close tolerances are also discussed.

Circle 181 on Inquiry Card, page 201

#### Resistor & Rheostats

A 20-page, multi-colored catalog lists: resistor selection data; complete information on fixed enameled resistors, adjustable enameled resistors, oval resistors, vitreous axial resistors, plus complete data on caged resistors and new printed circular resistors. Illustrations and complete specifications are included. Tru-Ohm Products, 2800 N. Milwaukee Ave., Chicago 18, Ill.

Circle 182 on Inquiry Card, page 201

#### **Coil Winders**

A 62-page catalog, No. 57, illustrates and describes 48 coil winding machines of which 18 are newly developed models. The various machines of coils. In addition, several pages of accessories and optional equipment are described. A page of helpful winding formulas is included. Geo. Stevens Mfg. Co., Inc., Pulaski Rd. at Peterson, Chicago 30.

Circle 183 on Inquiry Card, page 201

# improved BORG MICRODIALS

EASIER TO READ...EASIER TO USE EASIER TO INSTALL ... MORE ATTRACTIVE

## DIGITAL DIAL MODELS

Designed for forced, fast reading. Now offered in 3, 4 and 5 digit models. Direct reading . . . numerals are viewed through a single window for easy instantaneous reading. Knobs have positive grip for easier rotation. • Five digit models are accurate to within one part in 100,000. Others have proportionate accuracy. Finger tip brake on 3 digit model. For any rotating device from one turn to 1000 turns. Hand or servo-operated. No backlash. Panel space required, 13/4" diameter for 3 digit Microdials; 2" diameter for 4 and 5 digit Microdials.



**MODEL 1304** 





MODEL 1305

## CONCENTRIC DIAL MODELS



**MODEL 1320** Bright Chrome Cover Satin Chrome Dials



MODEL 1322 Satin Chrome Cover Satin Chrome Dials



**MODEL 1324** Gloss Black Cover Satin Chrome Dials



MODEL 1326 Dull Black Cover Satin Chrome Dials



MODEL 1321 Bright Chrome Cover Gloss Black Dials



**MODEL 1323** Satin Chrome Cover Gloss Black Dials



**MODEL 1325** Gloss Black Cover Gloss Black Dials



**MODEL 1327** Dull Black Cover **Dull Black Dials** 

New finger tip brake (optional) prevents accidental change of setting. Available in 8 attractive, easy-toread dial and cover combinations. Black Bakelite knobs on all models. 13/4" in diameter. • Easy to read. Turn counting dial clearly distinguishes be-

tween tenth turn and zero point. Large increment. dial affords maximum separation of graduations for precise reading. Rotation is continuous in either direction. No backlash. Easily installed. Indicates position to an indexed accuracy of 1 part in 1000.

#### IMMEDIATELY AVAILABLE FROM YOUR JOBBER

Borg Microdials are carried in stock by jobbers located in principal cities throughout the United States. Write us if you are unable to locate a Borg Jobber near you.

#### BORG EQUIPMENT DIVISION

THE GEORGE W. BORG CORPORATION JANESVILLE, WISCONSIN





# DATA F()R

**RCA Power Tubes Open New Horizons** for Electronically Controlled Power

> RCA-6181\*, RCA-6166, RCA-5762, RCA-5604-A-Large-Power Tubes... feature reliability and long life in communication and industrial services.



\*Features ceramic-metal construction.



RCA-6816\*, RCA-6884, RCA-6161, RCA-6146, RCA-6883, RCA-6417, RCA-5763 - Small-Power Tubes . . . for compact, light-weight, high-efficiency equipment designs.



RCA-6949 \* Super-Power Type ... capable of generating use-

ful continuous rf

power in the order of 500 kw

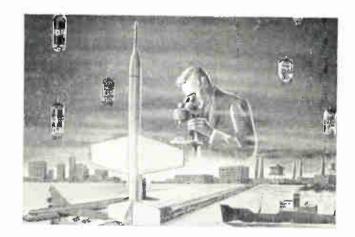
at high efficiency and with ex-

ceptionally low driving power.

Bulletin in preparation.

#### "Premium" Tubes and "Special Red" Types for Exacting Requirements of Military and Critical Commercial Services

RCA "Premium" Tubes and "Special Red" Tubes are specially processed, rigidly monitored by 100% microscopic inspection of 24 or more categories of workmanship -to weed out early-hour failures, assure dependable performance. RCA "Premium" Tubes and "Special Red" Tubes are quality-controlled for reliability under tough conditions of vibration, impact, humidity, and wide temperature variations. For complete listing of RCA's comprehensive line of "Premium" Tubes and "Special Red" Types contact the RCA District Office nearest you, or write RCA, Commercial Engineering, Harrison, N. J.



For information on how these and other RCA products may be applied to your designs, contact the RCA District Office nearest you.

744 Broad Street,

744 Broad Street, Newark 2, N. J. HUmboldt 5-3900 WHitehall 4-2900

6355 E. Washington Blvd. Los Angeles 23, Calif. RAymond 3-8361

224 N. Wilkinson St. Dayton, 2, Ohio Hemlock 5585

GOVERNMENT

1625 "K" St., N. W. Washington, D. C. District 7-1260

415 South 5th St. Harrison, N. J. HUmboldt 5-3900

For technical bulletins presently available on the products shown here, write RCA Commercial Engineering, Section F50R, Harrison, N. J.

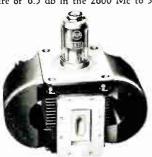
# DESIGNERS

#### RCA Magnetrons and Traveling-Wave Tubes Spur New Advances in Microwave Designs

RCA-6521-Weather-Radar Magnetron... for reliable service in airborne electronic equipment. 2000-hours warranted life.

RCA-6865-A—Tunable-Type Magnetron... for pulsed-oscillator service. Provides essentially uniform peak power output over the tuning range 8750 Mc to 9600 Mc. Limited to government end use. For further information, contact the RCA District office nearest you.

RCA-6861—Low-Noise Traveling-Wave Tube ... extraordinarily low noise figure of 6.5 db in the 2600 Mc to 3500 Mc range.





#### RCA Storage and Display Tubes Extend the Design Boundaries of Electronic Data-Processing Devices

RCA-6499 — Radechon...a charge storage tube of the barrier-grid type intended for use in a wide variety of information processing systems.

RCA-6896/1855 — Graphechon ... a charge storage tube for use in data-processing applications where signal information must be transformed continuously from one time-base to another. Bulletin in preparation.

RCA-6866—Display Storage Tube...with average display brightness of 2750 foot-lamberts for use in applications where it is desired to have a non-flickering display of stored information for about 60 seconds after writing has ceased.



#### Camera and Image-Converter Tubes Probe New Frontiers for Industry



RCA-6198-A — Vidicon . . . small-size camera tube without side tip for compact industrial television applications.

RCA-6849 — Image Orthicon ... with exceptionally high sensitivity and spectral response approaching that of the eye for operation under extremely low light levels.

RCA Infrared Image-Converter Tubes ... available for government end-use. For further information, contact the RCA District Office nearest you.

## Superior-Quality Transistors for Designs Where Performance-Reliability is of Prime Importance

RCA-Type No.	Application
2N77*	Class A AF Amplifier Type.
2N104, 2N215*	Class A AF Amplifier Types.
2N105*	Class A AF Amplifier Types. Small size for compact designs.
2N109, 2N217*	For lorge-signal Class A or B, AF Amplifiers. Power Output: two 2N109's in closs B Push-Pull, 150 milliwatts.
2N139, 2N218*	Class A 455-Kc 1F Amplifier Type.
2N140, 2N219*	Converter and Mixer-Oscillator Types for 540—1640 Kc Band.
2N175, 2N220*	Extremely Low-Noise Types for Preamplifiers or Input Stages of Audio Amplifiers.
2N206*	Class A AF Amplifier Type (Tested for temperature cycling and moisture resistance). Meets MIL-T 25380/4 USAF specification.
2N247*	"Drift" RF Amplifier Type far AM Broodcast Band up into the Shortwave Bands.
2N269*	For Medium-speed switching Applications in Electronic Computers.
2N270*	For Large-Signal Class A or 8, AF Amplifiers. Power Output: one 2N270 in class A, 60 milliwatts; twa 2N270's in class B, Push Pull, 500 milliwatts
2N301	High-Power Type for Class A or B, AF Amplifiers. Power Output: one 2N301 in class A, 2.7 watts; two 2N301's in class B, Push
2N301A	Pull, 12 watts. Like 2N301 but operates at peak collector voltages as high as 60 volts.  * Flexible-lead type



#### RADIO CORPORATION of AMERICA

Electron Tube Division, Harrison, N. J. Semiconductor Division, Somerville, N. J.

## Here is why Radar Producers and users prefer



...in the laboratory,

in the field, in production



Test Sets for X Band C Band Ku Band

A complete testing unit in one compact portable case All functions necessary for production testing, trouble-shooting and maintaining Radar Equipment available in one unit—controlled by a master switch. Saves bench space, testing time, can be moved to the job.

Makes all receiver and transmitter tests

Checks transmitter power, AFC lock-on, Frequency, Band width, spectrum shape, Receiver sensitivity, IF Band pass, TR recovery time, PPI Scope response and many other important tests.

Saves time, cost, and space

Kearfott Radar Test Sets occupy less space, are economical to buy, save valuable testing time compared with individual components such as power supplies, modulators, microwave plumbing and spectrum analyzers.

1957 Model incorporates new features

Write for Bulletin W-104 to obtain all the latest information on these Kearfott Test Sets.



#### Orthicon

(Continued from page 109)

been found sufficient to prevent "burn-in" of the image, even when using an old, sticky tube.

The transmitted picture is held stationary by introducing suitable correcting signals to the centering circuits of the TV camera. The correcting signals are sine and cosine functions obtained from a sine-cosine potentiometer. Each function is amplified by a small transistor amplifier and applied to the correct deflection circuit.

#### **Computer Switching**

(Continued from page 117)

chosen set. The product of these variables gives a term of the Boolean function.

d. The sum of all products, obtained from consideration of all sets, is the desired simplified Boolean function.

In Fig. 5 the rectangular set of 4 in the upper left corner has the variables A'C' unchanged. The rectangular set of 2 in the lower right corner has the variables ACD' unchanged. The simplified Boolean expression is

$$f(ABCD) = A'C' + ACD'$$
 (3)

This reduction may also be effected algebraically by rewriting Eq. (2):

The Karnaugh Chart requires expression of the Boolean function in disjunctive normal form. The Boolean disjunctive normal form consists of a sum of terms, wherein each term is a product of all the variables. A conjunctive normal form consists of a product of terms wherein each term is the sum of all the variables. Eq. 2 is an example of a disjunctive normal form. Eq. 5, below, is an example of the conjunctive normal form.

(Continued on page 190)

# **DPS** Connectors for **High Altitudes-Vibration**



These rack/panel pressurized connectors are designed for high altitude and vibration applications. When the DPS connector is mated, it is sealed about the insert faces by means of a specially designed rubber seal, that allows an axial tolerance of up to 1/8" while still effecting a seal. This seal is encased in the #34 shell so that the step down design of the mating #33 shell seats into and against it. In addition, the #34 or pin insert shell encloses a monobloc silicone insert designed so that the tightening of the junction shell effects a compression seal around the wires that have been inserted. The #33 or socket insert shell has a plastic front insulator, to insure alignment of contacts, and is backed up by a silicone rear insulator that is also tapered to permit the corresponding taper of the junction shell to compress it around the wires as the junction shell is tightened. Contacts for DPS connectors must be ordered separately, and installed at time of wiring. Co-axial contacts, and thermocouple contacts are available. Also, air lines. DPS connectors are available in 4 different sizes with several insert arrangements for each size Write for Bulletin DP-101 TODAY!

#### NEW

**Coaxial Connector Screw Type Coupling** 



Latest RF Connector Series — The TNC. The TNC is a screw type coupling version of the improved BNC series for small coaxial connectors. This TNC series, made by the Eastern Division of Cannon Electric, is available in two types: low voltage and high voltage. Both types are ideal where minimum noise is desired. They are lightweight, waterproof, sealed connectors which will operate at any altitude.

The high voltage TNC is recommended for AC rating up to 5,000 volts. Low voltage rating is to 500 volts. The TNC series is also available with collet cable clamp.

Write for RF Coaxial Bulletin DC-1 TODAY!

**Accessories for AN-Plugs** 





CA06BQ Plug

CA02AQ Receptacle

An accessory that consists of coupler and an adapter has been recently perfected by Cannon to provide quick connect and quick disconnect characteristics to AN connectors.

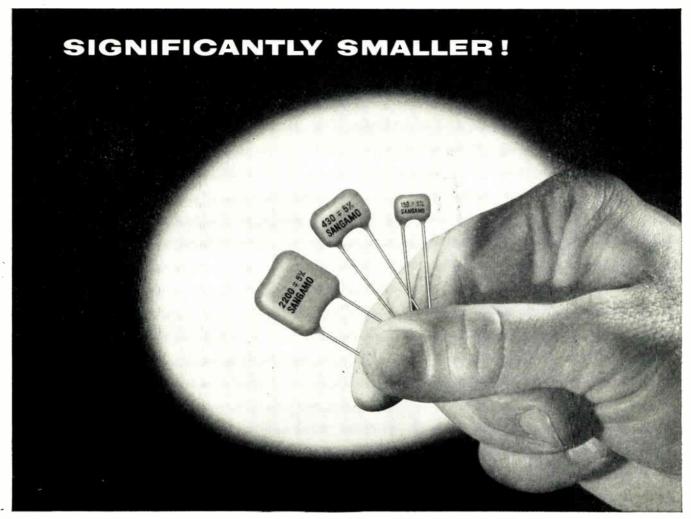
The adapter is designed to screw over the coupling threads of a standard AN receptacle, and contains an external locking groove which receives the formed ends of the coupler latch when fully engaged. The entry of the coupler latch into this groove permits a compression spring to move the coupler sleeve forward, locking the parts securely. A simple straight pull back on the sleeve releases the latch and permits disconnection.

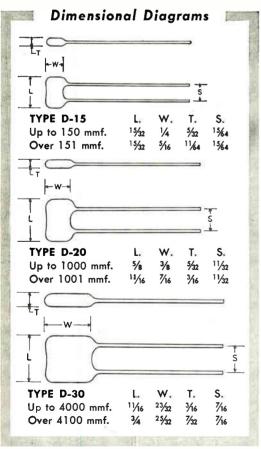
The coupler consists of a special spring latch assembly, and is designed to replace the coupling nuts on Cannon AN3106A and AN3106B plugs.

Write for Bulletin PR-QD TODAY!









# NEW...SANGAMO "RESIN-KOTE" MICA CAPACITORS

- PHYSICALLY SMALLER
- RADIAL LEADS FOR PRINTED CIRCUIT BOARDS
- EXCELLENT ELECTRICAL CHARACTERISTICS
- EXCELLENT FOR AUTOMATIC ASSEMBLY METHODS
- EXCEED APPLICABLE RETMA SPECIFICATION RS-153
- FABRICATED FROM THE FINEST INDIA RUBY MICA

Available In Capacitance Values From 5 to 20,000 MMFD In Standard ± 10% Tolerance. Closer Tolerances Can be Supplied.

Write For NEW Engineering Bulletin TSC-118.

#### SANGAMO ELECTRIC COMPANY

Electronic Components Division

SPRINGFIELD, ILLINOIS

SC57-5

# MILLIONS OF VARIABLE RESISTORS for every commercial and military need

• A world-wide reputation . . . for economical uniform high quality assembly . . . on a precision mass production basis . . . by 1500 skilled, trained-on-the-job specialists . . . to your exact individual specification.

- 315,000 sq. ft. of plant area devoted to variable resistors.
- Exceptionally good delivery cycle . . . on both commercial and military orders.
- Write for complete 62 page catalog today.



**WEST COAST MANUFACTURERS:** Many types of variable resistors now in production at our South Pasadena plant. Your coil, transformer and compression molding business also invited. Prompt delivery. Modern versatile equipment. L. A. phone Clinton 5-7186.

WEST COAST SUBSIDIARY Chicago Telephone of California, Inc. 105 Pasadena Avenue South Pasadena, Calif. L.A. Phone: Clinton 5-7186 TWX LA 1105 CANADIAN SUBSIDIARY C. C. Meredith & Co., Ltd.

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ELKHART • INDIANA

The Exclusive Specialists in Precision Mass Production of Variable Resistors • Founded 189



# Eimac First for

mm											
				N	MAXIMU	_		_	ELE	CTRICAL CHA	RACTERISTICS
000	TETRODES  4-65A 4W300B  4-125A 4W20000A  4-250A 4X150A  4-400A 4X150D  4-1000A 4X150D  TETRODI		Plate Dissipation Watts	Plate Voltage	Plate Current Milliameres	Grid Dissipation	Watts Screen Voltage	Screen Dissipation	watts Filament, Volts	Filament,	Amplification Factor
	4CX150G 4X250B 4CX250K 4X250F 4CX250M 4X500A 4CX300A 4X500F 4PR60A 4CX5000A	4-65A 4-125A 4-250A 4-400A 4-1000A*	65 125 250 400 1000	3000 3000 4000 4000 6000	150 225 350 350 700	5 5 10 10 25	400 600 600	20 35 35	5.0 5.0 5.0	14.5	0 0 0
	TRIODES  2C39A 75TL 2C39B 100TH 3C24 100TL TRIODE	4CX150G* 4CX250K* 4CX250M* 4CX300A* 4PR60A* 4W300B** 4W20000A** 4X150D* 4X150G* 4X250B* 4X250F* 4X500F* 4X500F* 4X500F*	150 250 250 300 60 300 20,000 150 150 250 250 500 5000	1250 1250 2000 20,000 20,000 1250 1250 1250 2000 4000 4000 7500	250 250 250 250 250 15,000 250 250 250 250 250 350 350 3000	2 2 1 2	300 400 1500 300 300 300 300 300 300	120 122 120 122 120 122 120 200 120 200 120 120 120 120 120 120 130 30	6.0 26.5 6.0 26.0 10.0 6.0 26.5 2.5 6.0 26.5 5.0	2.6 0.5 2.5 2.2 2.1 30.0	0
	3CX100A5 152TH 3W5000A3 152TL 3W5000F3 250TH 3X100A5 250TL 3X2500A3 304TH 3X2500F3 304TL 3X3000A1 450TH 3X3000F1 450TL 6C21 592/3-200A3 25T 750TL	2C39A* 2C39B* 3C24 3CX100A5 3W5000A3** 3W5000F3** 3X100A5 3X2500A3* 3X2500F3*	100 100 25 100 5000 5000 100 2500 2500	1000 1000 2000 1000 6000 6000 1000 6000	1251 75 1251 2500 2500 1251 2500 2500	7 2 150			6.3 6.3 6.3 7.5 7.5 6.3 7.5 7.5	1.00 1.00 3.00 1.00 51.00 51.00 51.00 51.00	0 100 0 24 0 100 0 20 0 20 0 100 0 20
	35T 1000T 35TG 1500T 75TH 2000T	3X3000A1* 3X3000F1* 6C21 25T 35T 35TG	3000 3000 300 25 50 50	6000 6000 30,000 2000 2000 2000	2500 2500 † 75 150 150	50 50 † 7 15 15			7.5 7.5 8.2 6.3 5.0 5.0	51.00 51.00 17.00 3.00 4.00 4.00	5 30 24 39
	4E27A/5-125B	75TH 75TL 100TH 100TL 152TH	75 75 100 100 150	3000 3000 3000 3000 3000	225 225 225 225 225 450	16 13 20 15 30			5.0 5.0 5.0 5.0 5.0 5 or 10	6.25 6.25 6.30 6.30	20 12 38 14
		152TL 250TH 250TL 304TH 304TL	150 250 250 300 300	3000 4000 4000 3000 3000	450 350 350 900 900	25 40 35 60 50			5 or 10 5.0 5.0 5 or 10 5 or 10	10.50 10.50 25 or 12	37 14 50 20
	PRECTIFIERS  2-01C 253 2-25A 8020(100 R) 2-50A 2CL40A	450TH 450TL 592/3-200A3 750TL 1000T	1000	6000 6000 3500 10,000 7500	750	80 65 25 100 80			7.5 7.5 10.0 7.5 7.5	12.00 12.00 5.00 21.00 15.50	38 18 25 15 35
	2-150D 2X1000A 2-240A 2X3000F 2-450A KY21A PENTODE	1500T 2000T	1500 2000	8000 8000		125 150	• • •	::	7.5 10.0	24.00 23.50	24 23
	2-450A 2-2000A 250R KLYSTRONS	4E27A/ 3=123B	125 Freque Range F	псу В	200 Collector issipation Watts		750 Beam oltage	20	5.0 Beam Current Amperes	7.50 TV Peak Synchronizing Level	5 CW Power Amplifier
	- KLYSTRONS	3K2500SG* 3K3000LQ* 3K3000LA* 3K20,000LA** 3K20,000LK** 3K50,000LK** 3K50,000LF** 3K50,000LF** 3K50,000LQ** 3KM50,000PA** 4K50,000LQ**	1700-24 700-10 375-5 470-5 580-7 720-8 470-5 580-7 720-8 750-10 225-4	00 40 80 20 90 80 20 90 00	3000 3000 3000 20,000 20,000 50,000 50,000 50,000 50,000 50,000 50,000	1: 1: 1: 1: 2: 2:	7000 9000 9000 3,000 3,000 3,000 9,500 9,500 9,500 0,000 0,000		0.575 0.750 0.750 1.700 1.700 1.700 2.560 2.560 2.560 2.500 2.500	1500 2700 2700 5500 5500 5500 12,000 12,000 12,000 12,000 12,000 12,000	1250 2000 2000 3000 3000 3000 6000 6000 600
	3K2500SG 3K50.000LK 3K3000LQ 3K50.000LQ 3KM3000LA 3KM50.000PA 3K20.000LA 4K50.000LQ 3K20.000LF 1K015CA 3K20.000LK 1K015CG 3K50.000LA 1K015XA 3K50.000LF 1K015XG	1K015CA 1K015CG*** 1K015XA 1K015XG***	D-C Resonator Voltage 350 350 350 350	Resonate Dissipation 15 15 15 15		ode ent	D-C Repell Voltag	er re O	Heater Voltage 6.3 6.3 6.3 6.3	0.80 540 0.80 540 0.80 540 0.80 870	equency Range 10-6000 10-6000 0-9600 0-9600
		*Requires forced air cooli	ng	†Pu	ılse modu	ılator			Pulsa cli	nner service	

- \*Requires forced air cooling

  \*\*Water cooled

  \*\*\*Waveguide output connections

  \*\*\*\*Grid controlled
- †Pulse modulator +Liquid cooled ‡Cathode Current
- 1 Pulse clipper service2 Grid-to-screen amplification factor

# Reliability in power electron tubes

Continuing research and development adds constantly to the Eimac products list. For latest information, contact our Technical Services Department.

RECTIFIERS	RECTIFIERS  HIGH VACUUM TYPES FILAMENT PEAK PEAK PLATE AVERAGE						
TYPE	FILAMENT VOLTAGE	CURRENT AMPS.	INVERSE VOLTAGE	CURRENT AMPS.	PLATE CURRENT MA		
2-01C 2-25A 2-50A 2-150D 2-240A 2-450A 2-2000A 250R 253 8020(100R) 2CL40A 2X1000A* 2X3000F	5.3 6.3 5.0 7.5 7.5 10.0 5.0 5.0 6.0 26.5	0.4 3.0 4.0 13.0 12.0 26.5 25.0 10.5 10.0 6.5 2.1 2.25 51.0	1,000 25,000 30,000 30,000 40,000 25,000 75,000 60,000 15,000 40,000 8,000 or 16,000 + 25,000 25,000	0.010 1.0 1.0 3.0 4.0 8.0 12.0 2.5 2.5 1.5 10.0 25.0' 12.0	1 50 75 250 500 1000 750 250 350 100 120+ 1250 3000		
	MERCURY VAPOR TYPES						
KY21A**** RX21A	2.5 2.5	10. <b>0</b> 10.0	11,000 11,000	3.0 3.0	750 750		

#### AIR SYSTEM SOCKETS & CHIMNEYS

#### SOCKETS (WITHOUT CHIMNEY)

SK-100 For Klystrons with oxide coated cathodes such as the 3K3000LQ.

SK-110 For Klystrons with bombardment heated cathodes such as the 3K50000LQ and 4K50000LQ.....

SK-200 Cathode end socket for klystrons such as the 3K2500SG.....

SK-300 4CX5000A (No Screen By-pass Capacitor)....

SK-400 4-400A, 4-250A, 4-125A

SK-500 4-1000A

SK-600 4X150A, 4X150D, 4X250B, 4X250F, 4W300B (Cathode Terminals Not Grounded)......

SK-602 4X150A, 4X150D, 4X250B, 4X250F, 4W300B (Modification of SK-600—Shield slotted between pins 1 & 2).

SK-610 4X150A, 4X150D, 4X250B, 4X250F, 4W300B (Cathode Terminals Grounded) SK-620 4X150A, 4X150D, 4X250B, 4X250F, 4W300B (Cathode Terminals Not Grounded—Screen By-passCapacitorPlasticSealed)

SK-630 4X150A, 4X150D, 4X250B, 4X250F, 4W300B (Cathode Terminals Grounded—Screen Bypass Capacitor Plastic Sealed).

SK-640 4X150A, 4X150D, 4X250B, 4X250F, 4W300B (Cathode Terminals Not Grounded — No Screen By-pass Capacitor)....

SK-700 4CX300A (Cathode Terminal Not Grounded)....

SK-710 4CX300A (Cathode & One Heater Terminal Grounded)

#### CHIMNEYS

SK-406 (For use with SK400 Air System Socket)

SK-506 (For use with SK-500 Air System Socket)

SK-606 (For use with SK-600 series and SK-700 series Air System Sockets)



#### AIR SYSTEM SOCKETS

SK-100	SK-600	SK-700
SK-110	SK-602	SK-710
SK-200	SK-610	SK-406
SK-300	SK-620	SK-506
SK-400	SK-630	SK-606
SK-500	SK-640	



### HR HEAT DISSIPATING CONNECTORS



#### VACUUM SWITCH

VS-2, 5, 6



17/32 13/16 31/32 1-17/32 1-3/8 2-1/4

#### TUBE EXTRACTOR

SK-601

\*Grid Controlled

## HEAT DISSIPATING CONNECTORS

TYPE	HOLE DIA.
HR-1	.052
HR-2	.062
HR-3	.070
HR-4	.102
HR-5	.125
HR-6	.359
HR-7	.125
HR-8	.570
HR-9	.570
HR-10	.510

#### SK-601 TUBE EXTRACTOR

SK-601

A spring steel extractor for use with the 4X150 series and 4X250 series.

#### **VACUUM SWITCH**

Single pole double throw switch within a high vacuum adaptable for high voltage switching. Contact spacing .015". Switch will handle R-F potentials as high as 20 Kv. In DC switching will handle approximately 1.5 Amps. at 5 Kv.

VS-2 VS-5 VS-6 Coils

Туре

#### PREFORMED CONTACT FINGER STOCK

A prepared strip of spring material slotted and formed into a series of fingers designed to make sliding contact.

Single Edge CF-100 CF-300 CF-500	Width 17/32 31/32 1-3/8	CF-200 CF-400 CF-600	Width 13/16 1-17/32 2-1/4
	Klystron Tynes	Width	-,

CF-700 17/32 CF-800 13/32 × 5/16

Used as contact between klystrons and klystron amplifier circuit assemblies.



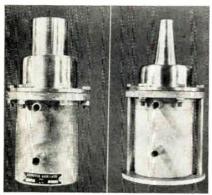
EITEL-McCULLOUGH, INC.

## New Products

# .. for the Electronic Industries

#### **ULTRASONIC TRANSDUCERS**

Two ultrasonic transducers for high temperature and high amplitude motion applications. Model AT-1600B, (1), features water jacketed coupling slug. This arrangement per-



mits use of high power magnetostriction transducers for such high temperature (to 1500°F) applications. Mode: AT-1600C, (r), features a tapered steel amplitude multiplier. This level may be used for many kinds of ultrasonic work when large peak-topeak amplitudes are required, such as drilling, blanking, shaping and grinding. Acoustica Associates, Inc., Glenwood Landing, L. I., N. Y.

Circle 189 on Inquiry Card, page 201

#### **MAGNETIC CORE TESTERS**

Two new current drivers were designed for testing of square loop, tape wound, bobbin cores. Type 3003 is a high impedance, high current source and produces negative current pulses. Type 3004 is designed for low impedance operation functioning as a cathode follower producing positive current pulses. Each unit has coarse and fine controls for continuous ad-



justment of the rise time (0.2 to 1.0 µsec.), the duration (1.0 to 10 µsec.), and the amplitude (up to 1.0 a.) of the rectangular output pulse. Burroughs Corp., 1209 Vine St., Phila. 7, Pa.

Circle 190 on Inquiry Card, page 201

#### WIRE SPLICING

A new product, the AMPli-var splice with its automatic "Horizontal" splicing machine, is designed to produce up to 1200 per hour, identical, mass produced splices on enamel, polyvinyl



acetal and similarly coated wire. Stripping action eliminates scraping, dissolving in solvents, burning or other methods of removing insulation. No heat damage as in other methods of splicing. Designed to lock wires and connector into a high tensile strength splice. Joint is hermetically sealed during splicing. Soldering material and equipment are unnecessary. AMP Inc., Harrisburg 13, Pa.

Circle 191 on Inquiry Card, page 201

#### **PUSHBUTTON SWITCH**

A new "typewriter" pushbutton switch for manual keyboard control of electric equipment is being marketed It was developed for rapid-repeat, one-finger operation such as found in the keyboards of electric typewriters, adding machines and similar equipment. Can be operated up to 300 times/minute. It may be engraved by the user. New, extra-

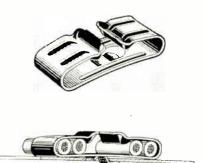


length turret terminals permit quick, easy wiring and positive soldering. Switch is listed by U. L. at 5 a. 125 or 250 vac. Micro Switch of Freeport, Ill., div of Minneapolis-Honeywell Regulator Co.

Circle 192 on Inquiry Card, page 201

#### SPEED CLIP

A new, twin U-type speed clip, developed for the attachment of electrical wiring on household appliances, electronic equipment and other products. Speed clip is front-mounting

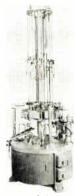


and eliminates the need for nuts, bolts or auxiliary fastening devices. Ideal for use in hard-to-reach locations. Inserted into a mounting hole in a panel with slight finger pressure down and forward, the clip snaps into wire-receiving position. Electrical wires, firmly secured, can be removed for servicing or replacement without detaching the clip. Tinnerman Products, Inc., Cleveland, O.

Circle 193 on Inquiry Card, page 201

#### **BULB BLOWING MACHINE**

A new automatic bulb blowing machine for incandescent lamps, radio tubes, and similar products is capable of production speeds up to 2,400 units/hr. A typical model, #2070 handles sizes up to 2½ in. o.d. by 5½ ft. over-all length and is fully automatic except for manual loading of 4 ft. lengths of glass. Oil-immersed and enclosed to reduce maintenance.



the rollers are precision tapered, hardened and ground to insure accuracy. Cutting knives are motor operated. Can be equipped with automatic tubing feed. Kahle Engineering Co., 1400 7th St., N. Bergen, N. J.

Circle 194 on Inquiry Card, page 201

#### IT'S ROUND-UP TIME AT AMP

... products for your ELECTRONICS

and AVIONICS applications



The A-MP Miniature Taper Pin Receptacle eliminates redious and costly operations of soldering leads to miniature connectors. This solderless, quick-disconnect terminal is applied to the lead by means of A-MP Automachine and A-MP Certi-Crimp Tooling . . . then capped over other type connectors, modified to receive the A-MP 37 Series Miniature Taper Pin Receptacle.

Other A-MP Taper Pins are available (Series 53 and 88) for wire sizes 24 - 12 AWG and a wide range of insulation sizes. Insulation piercing Taper Pins are available for small stranded wires and popular size tinsel cords.

#### TAPER TAB RECEPTACLES

A-MP Taper Tab Receptacles are a recent development for flat tabs employing the taper key principle. They are available for wire sizes 24 - 18 AWG, in gold, silver and tin plated finishes.

The tapered section of these receptacles is standardized to fit the same size tapered tab. Insulation piercing Taper Tab Receptacles are available for small wire sizes and tinsel cords.

#### CONNECTORS FOR PRINTED CIRCUITS

The AMP-Edge Connector is design-engineered with positive wiping contact and frictional grippage. This connector gives you: greater flexibility...its size does not limit the size of your completed unit; design versatility...easily applied, in any arrangement, to any section of the perimeter; costs reductions...in applying connector to the wire and to the printed circuit.

The AMPin Connector . . . gets leads to the printed circuit in one assembly operation . . . eliminates your investment in expensive automation equipment . . no loose leads during the solder-dip process . . . construction promotes good capillary flow of solder during dipping process . . . can be applied to solid or stranded wires . . . is self-retaining and self-aligning.

#### THE SHIELDED WIRE TEAM

The A-MP Shielded Wire Splice joins sections of shielded wire so that the inner conductor and outer shield are firmly spliced and remain effectively insulated from each other. Features include: rectangular inspection window, in center, permits easy inspection to determine proper placement of ends of inner conductor; inspection ports, at each end, to check proper depth of braid enclosed after crimping; and overhang of outer sleeve projects beyond inner elements and grips braid for anti-vibration support.

The A-MP Termashield Shielded Wire Ferrule are of one-piece construction, is slightly thicker than the wires joined, and is the ideal one-step splice for ground tap accommodation.

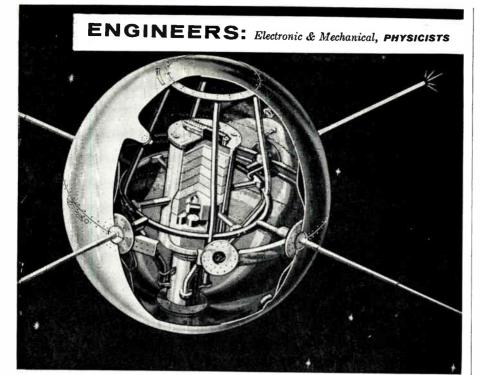
This A-MP Shielded Wire Team is color-coded for easy identification of leads and connectors and provides a simple one-step operation that reduces assembly time and costs.

#### Further information on these products is available on request.

#### AMP INCORPORATED

WHOLLY OWNED SUBSIDIARIES: Aircraft-Marine Products of Canada Ltd., Toronto, Canada Arcraft-Marine Products (Great Britan) Ltd., London, England Societe AMP de France, Le Pre 31. Gervais, Seine, France AMP—Holland N.V. 's-Hertogenbosch, Holland DISTRIBUTOR I II JAPAN: Oriental Terminal Products Co., Ltd., Tokyo, Japan General Offices: 4022 Eisenhower Blvd Harrisburg, Pa.





Melpar's work on the earth satellite is one of many diversified projects.

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## wider scope to men of talent

At Melpar the problems posed by our more than 90 current projects allow you to work in the area of your choice and make contributions on advanced levels.

Our dynamic growth (we've doubled in size every 24 months for the past 11 years) constantly creates new middle and top level openings; our policy of individual recognition allows you to compete for them strictly on merit, and to receive financial compensation limited only by your ability.

As a member of a Melpar project group you'll enjoy freedom and a team spirit found only in a young organization of our size. Each project group is charged with responsibility for solving problems from conception to prototype. This means that you gain invaluable expevience in inter-related spheres, essential to eventual directorship responsibility.

Living is relaxed and good in the Washington, D. C. area with its mellow climate and spacious suburbs. Our new air-conditioned laboratory is well-instrumented with an eye to future needs and is situated on a wooded 44-acre tract.

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Technical Personnel Representative

PAR Incorporated

A Subsidiary of Westinghouse Air Brake Company 3128 Arlingion Boulevard

Falls Church, Virginia

(Continued from page 182)

$$\begin{array}{l} f\left(ABCD\right) = (A + B + C' + D) \\ (A + B + C' + D') \\ (A + B' + C + D') \end{array} \tag{5} \\ \end{array}$$

#### Switching

If in the analysis and synthesis of electronic switching circuits, use is to be made of Boolean algebra, then a direct correspondence between Boolean variables and circuit elements must be established.

This need not be a one to one correspondence since the type of circuit element used varies with the nature of the circuit. The correspondence between relays and vacuum tubes with Boolean literals has already been noted, and obviously speed of response required in the circuit is one of the determining factors in making a choice.

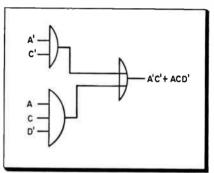


Fig. 8: The simplified Boolean function, Eq. 3., as it is represented graphically.

Boolean functions expressing the logical behavior of a combinational circuit may be described with the use of 3 graphic symbols for "and," "or," and "not." These symbols and one of the moving possible electrical counterparts is given in Fig. 6.

Consider once again Eq. 2:

$$\begin{array}{l} f\left(ABCD\right) = A'B'C'D' + A'BC'D' + \\ A'B'C'D + A'BC'D + \\ ABCD' + AB'CD' \end{array}$$

This function is given in Fig. 7 using the graphical symbols of Fig. 6.

The simplified Boolean function Eq. 3

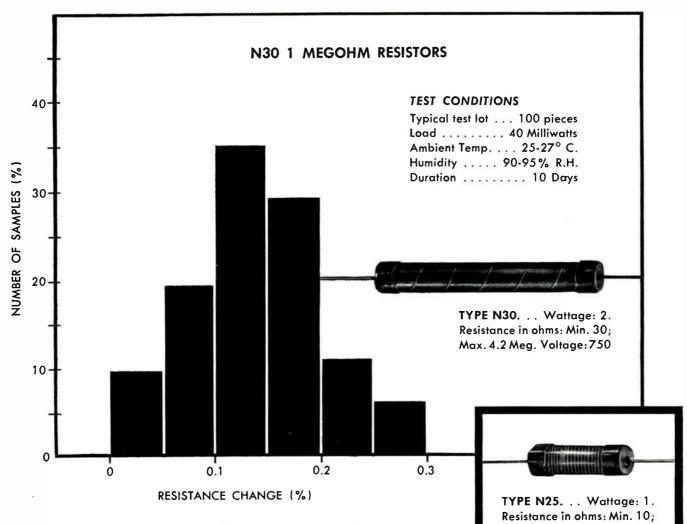
$$f(ABCD) = A'C' + ACD'$$

is drawn as Fig. 8.

The resultant decrease in circuit complexity is apparent.

A possible statement for the function of Eq. 2 might be: A light is controlled by 4 relays; A, B, C

(Continued on page 192)



# Why Corning's Film-type Glass Resistors are unaffected by moisture

This graph gives some idea of the unusual properties that result when you fire a tin oxide film to a glass core.

Since film and core are fused into a single structure, you have a resistor that stands up under extreme humidity and moisture conditions.

Tin oxide reacts chemically with glass under heat; it actually becomes part of the glass.

So you have an integrated unit. One that's physically inseparable. Catastrophic failure is no problem with these rugged precision-film resistors.

You get exceptional stability. Less than 1.0% average change in resistance after 10,000 hours' operation at rated

dissipation.

Long shelf life. Less than 0.2% resistance change after a whole year's aging under the most adverse conditions.

Low TC. Guaranteed  $\pm 300 \text{ ppm}$ ]°C. referred to 25°C. over a range of -55 to +105°C.

A last fact to shorten the long story we have to tell on our Type N FIXED-FILM RESISTORS:

They are guaranteed to meet, and the majority of characteristics of these resistors exceed, the requirements of MIL-R-10509B and comparable specs.

If you'd like the complete story on these amazing resistors, write for Data Sheet CD-2.00.

Keep your file up-to-date with data on these other electronic components made by Corning: Resistors: Low Power, Types S, R, H, HP, and WC-5; Capacitors: Fixed Glass\*, Transmitting, Canned High-Capacitance, Subminiature Tab-Lead, Special Combination. Direct Traverse\* and Midget-Rotary\* Trimmers. Metallized Glass Inductances; Electrolytic Level Switches; Attenuator Plates; Fotoform Glass.

Max. 1.5 Meg. Voltage: 500

TYPE N20. . Wattage:  $\frac{1}{2}$  . Resistance in ohms: Min. 10;

Max. 500,000. Voltage: 350

\*Distributed by Erie Resistor Corporation





CORNING GLASS WORKS, 95-6 Crystal Street, Corning, N.Y.

**Electronic Components Sales Department** 

# WHY SPARK GAP TUBES ARE IMPORTANT-

# and how Bendix Red Bank can help you with spark gap problems!



Bendix Red Bank "Spark Gap" Tubes are specially designed to do two big jobs in electronic circuits.

First, to act as a "triggering" switch—as on jet ignition systems. Here, Bendix\* Spark Gaps pass high currents with relatively low voltage drop and have the advantage of being able to handle high voltages in small space. Further, these tubes can be made insensitive to ambient temperature variations and are not normally affected by pressure, altitude, or humidity changes.

The second function of Bendix Spark Gaps is as a protective element—guarding radar equipment against voltage overload, to name one example. Here, Bendix Spark Gaps keep high voltage surges from getting through to damage circuit components.

Our design and manufacturing experience with spark gap tubes is extremely broad. If our extensive line of these tubes . . . ranging from 750V to 50KV in DC breakdown voltages . . . does not already contain a type to fit your needs, we are in a position to design one to handle the job with the exact degree of efficiency that you require.

To find out more about what we can do to help you with your spark gap problems, get in touch with RED BANK DIVISION, BENDIX AVIATION CORPORATION, EATONTOWN, NEW JERSEY.

\* TRADEMARK

West Coast Sales and Service:
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Export Soles and Service:
Bendix International Division,
205 East 42nd St., New York 17, N. Y.
Conadian Affiliate:
Aviation Electric, Ltd., P. O. Box 6102,
Montreal, Quebec.



(Continued from page 190)

and D. The light is to be lit under any of the following conditions:

A	open		open			$\mathbf{D}$	open
A	open	$\mathbf{B}$	closed	C	open	D	open
A	open	$\mathbf{B}$	open	$\mathbf{C}$	open	D	closed
			closed				closed
А	closed	$\mathbf{B}$	closed	C	closed	1)	open
Α	closed	В	open	C	closed	D	open

The redundancy of these conditions has been established by the reduction of Eq. 4 to Eq. 3. The requirements are completely satisfied with only 3 relays and 5 contacts while the unreduced equation required 4 relays and 24 contacts.

The foregoing has been an introduction to the fundamentals of Boolean algebra and its application to the solution of switching circuit problems. The discussion has omitted such aspects of the art as symmetric circuits, sequential circuits, element design, etc. For the reader interested in further details, additional references are given.

#### References

Design of Switching Circuits, Keester, Ritchie, Washburn.

Synthesis of Electronic Computing and Control Circuits, Harvard University Press, 1951.

Elements of Boolean Algebra for the Study of Information Handling Systems, R. Ferrell, *Proc. IRE* Oct 1953.

The Recognition & Identification of Symmetric Switching Circuits, S. Caldwell, AIEE, 1954.

Synthesis of Sequential Switching Circuits, D. Huffman, Journal of the Franklin Institute, March-April 1954.

<sup>1</sup> This choice is arbitrary. The O could be associated just as easily with truth. <sup>2</sup> The Map Method for Synthesis of Combinational Logic Circuits, M. Karnaugh, Communications & Electronics, Nov. 1953.

#### Motor Manufacturer Holds "Open House"

Trade magazine editors got an insight into the problems of precision electric motor manufacturing recently at an "Open House" gathering at Air Marine Motors, Inc., Amityville, N. Y.

The firm, one of the foremost manufacturers of subfractional horsepower motors, is now supplying motors to the major missile projects. One of the highlights of the demonstration dealt with the unique problems of high temperature operation.

Among the products demonstrated were a new laboratory plenum chamber, which measures the rate of air flow of air moving equipment, the "Torsynator," a remote positioning indicator, and various types of motors.

#### The mighty voice

of the

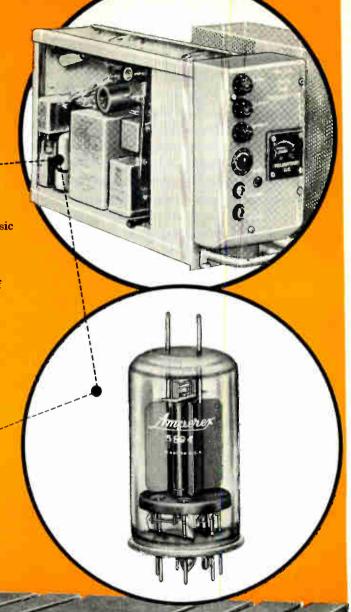
# CANARI

The CANARI (Communications And Navigation Airborne Radio Instrumentation) System, developed by the Wilcox Electric Company, furnishes all the basic navigational and communications devices used on modern aircraft in a single, standardized package weighing only one-third as much as conventional installations. Its mutually compatible elements, all of the same height and depth, are assembled on one custom-fitted shockmount, reducing ordinary space requirements by more than half. The lightest twin-engine aircraft as well as the newest superjet transports are being equipped with CANARI Systems. This definitive solution of the bulk problem in aircraft electronics owes a great part of its design efficiency to the

#### **Amperex**®

TYPE 5894 TWIN TETRODE

which gives the CANARI's VHF transmitter
35 watts of minimum rated power combined with
the ultimate degree of size and weight reduction.
No other equipment on the market of comparable
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Manufactured by Wilcox Electric Company, Inc., Fourteenth & Chestnut, Kansas City 27, Missouri



#### esk Amperex

about tubes and applications engineering assistance in aircraft electronics

AMPEREX ELECTRONIC CORP., 230 DUFFY AVENUE, HICKSVILLE, LONG ISLAND, N. Y. In Canada: Rogers Electronic Tubes & Components, 11-19 Brentcliffe Road, Leaside, Torento 17.

# New Products

# ... for the Design Engineer

#### **CRYSTAL OVENS**

The new BHC-18 crystal oven series are specifically designed for the new military CR types utilizing the sub-miniature HC-18/U holder. The units will conform to the military



warm-up requirement. The 10 and 15 crystal oven will stabilize within  $\pm 2^{\circ}$ C over an ambient of  $-55^{\circ}$ C to below reference temp. Available in units housing a 1, 2, 10 and 15 crystals. Operating voltage for the 10 and 15 crystal units is 6-115 v. ac or dc. The one unit oven is available from 6-24 v. ac or dc. Bulova Watch Co., Electronic Div., Woodside 77, N. Y.

Circle 200 on Inquiry Card, page 201

#### **CIRCUIT SIMULATOR**

A new instrument that eliminates breadboard layout by simulating complete transistorized amplifier stages has been introduced. Any ac or direct-coupled amplifier stage short of high power audio output can be simulated with the LF-1. Common or grounded emitter, base, or collector circuits may be simulated using pnp, npn, or surface barrier transistors.

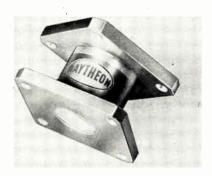


Built-in battery voltage supply for separate bias and load. Switch reverses polarity. Almost any external connection can be made at the 5-way binding posts provided. Sprague Products Co., North Adams, Mass.

Circle 201 on Inquiry Card, page 201

#### **FERRITE ISOLATORS**

Microwave isolators featuring improved performance and compactness are now available in standard and custom designs. Model IXL1, the X-brand type, has a range of 8.5-9.6



KMC and provides greater than 18 db isolation; weighs 6 oz. and is  $1\frac{1}{8}$  in. long. Model IK<sub>E</sub>L1, covers a range of 13.2-13.7 KMC in the K<sub>E</sub> band with greater than 20 db isolation; weighs 7.5 oz. and is less than  $1\frac{1}{2}$  in. long. Modified standard units with flanges rotated are available on special order. Raytheon Manufacturing Co., Seyon Building, Waltham 54, Mass.

Circle 202 on Inquiry Card, page 201

#### **VARIABLE DELAY UNITS**

Five new continuously variable delay lines for use as components or as test equipment in the design and development of advanced computer and radar systems are available. One control shaft, in 10 turns, covers the entire delay range. A locking device can be supplied to lock the unit at the desired delay. They can be used as components in equipment with a

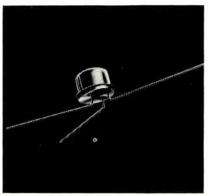


fixed delay, or as continuously variable test units. Resolution is better than 1/1000 of maximum delay. Termination is external. They meet all applicable Mil-Specs. ESC Corp., 534 Bergen Blvd., Palisades Park, N. J.

Circle 203 on Inquiry Card, page 201

#### **SWITCHING TRANSISTOR**

These new pnp computer transistors, the 2N-315, 2N-316 and 2N-317, are the germanium alloy type intended primarily for applications where high speed, high current switch-



ing is of paramount importance. The 2N-317 has, with only a minimum of drive current, a typical switching speed of 0.3 µsec. at 400 ma. of collector current. Series resistance when conducting is ½ ohm; nonconducting series resistance is as high as 10 Megs with a result that approaches optimum efficiency at high current levels. General Transistor Corp., 91-27 138th Place, Jamaica, N. Y.

Circle 204 on Inquiry Card, page 201

#### SYNCHRO INDICATOR

A new aircraft synchro indicator (Type 26800), can be used in any electronic system that provides a synchro output or in any electrical system in which remote position indication is desired. The hermetically sealed unit, 1 in. dia., weighs less than 3 oz. Meets Mil-Spec I-22540A. Designed for 26 v., single-phase, 400



cycle operation, it will operate with many standard pressure transmitters. Both dials and pointers are available in various finishes. The unit is designed for clamp mounting. Montrose Div. of Bendix Aviation Corp.

Circle 205 on Inquiry Card, page 201

#### FROM THE SMALLEST TO THE LARGEST UNITS...

the most desirable characteristics ever offered in selenium rectifiers!

# RADIO RECEPTOR hcd petti-sel

\*high current density

#### INDUSTRIAL TYPE SELENIUM RECTIFIERS

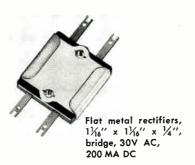
Made possible by the improved new vacuum process requiring no artificial barrier layer

Developed by Siemens Organization of West Germany, used extensively throughout Europe . . . and now manufactured exclusively in the U.S.A. by Radio Receptor Company.

## the complete line ranges from ...

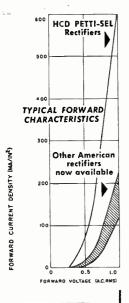


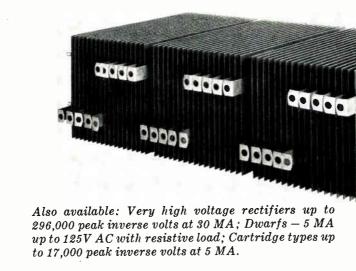
Plastic units,  $\frac{1}{16}$ " ×  $\frac{1}{16}$ " ×  $\frac{1}{36}$ ", single phase, center tap, 30V AC, 150 MA DC



- Better performance
- Estimated life 100,000 hours
- Lower forward voltage drop
- Suitable for high temperature applications
- Conveniently smaller cell sizes than conventional units of the same ratings

## ...to the large space-saving





3 phase, half wave, fan cooled rectifiers, 8" x 16" x 24", 26V AC, 4500 amperes DC

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Semiconductor Division

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(Actual Size) NEOMITE-ELGIN Sub Miniature Hermetically Sealed Relay. All Advance Types in Stock This Design Engineer

had a temperature -

compensating resistor in his





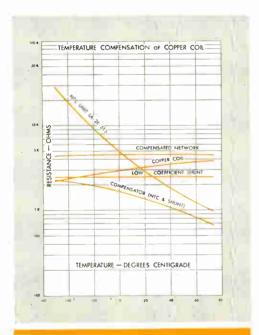


This Manufacturer has a temperature-compensating resistor in his

PRODUCT



# FOR THE CORRECT THERMISTOR RECOMMENDATION



#### CALCULATIONS

Temp °C	Coil R Ohms	Keystone Part LA-2K-515 Ohms	LTC Shunt Ohms	Shunt	Total R Ohms
<b>—50</b>	2265	30000	<b>A</b>	2290	4555
<b>—2</b> 5	2576	11700		2050	4626
0	2888	5300		1690	4578
25	3200	2700	2480	1290	4490
50	3512	1550		955	4467
75	3824	950	<b>+</b>	687	4511

Initial wattage  $(\hat{a} -50^{\circ}C = 0.00437)$  watt

HERE'S HOW KEYSTONE HANDLES A TYPICAL COIL COMPENSATOR SELECTION PROBLEM—
AND HOW WE CAN HELP YOU SOLVE YOURS!

#### The Problem:

Provide temperature compensation of a copper coil with resistance 3200 ohms at 25°C over the temperature range of -50°C to +75°C. Coil current is 5 milliamperes. Desire total compensated resistance of approximately 4500 ohms.

#### The Solution:

- (a) Calculate coil resistance for 25 degree temperature increments throughout the temperature range.
- (b) Select Keystone NTC unit having a resistance change slightly greater than that of the coil at the hot end of the prescribed temperature range (i.e. from  $+50^{\circ}$ C to  $+75^{\circ}$ C).

This will result in good compensation with minimum added resistance. The graphed solution illustrates Keystone thermistor, LA-2K-515, with a change in resistance about twice that of the coil over the hot temperature increment. In general, the thermistor which is chosen depends upon specified requirements relating to permissible added circuit resistance.

Selection of the proper thermistor physical size depends upon required time of response, space limitations, and circuit current. For the problem in consideration, one watt size "LA"—5/32" diameter by ½" length—appears satisfactory.

(c) Good compensation of coils over wide

temperature ranges generally requires use of a low temperature coefficient shunt across the thermistor unit to provide a fairly linear NTC response throughout the temperature range. Hence, select the proper shunt value to provide the required resistance change and calculate the response at intermediate temperatures.

- (d) Add coil resistance and compensating resistance at each temperature. The total resistance of the compensated network should be constant within a small percentage.
- (e) Calculate initial wattage developed across the thermistor unit at the low and high end of the temperature range. For self-heating to be negligible, initial wattage should be a small percentage of the maximum wattage rating of the unit.
- (f) For best response under actual circuit conditions, the thermistor should be mounted in proximity with the coil so that they track each other with relation to any temperature changes.



ST. MARYS, PA.

If you have a temperature compensation or other application suggesting the use of thermistors, we invite you to have your problem reviewed by Keystone engineers. Write us, without obligation of any kind.

# Products ... for the Electronic Industries

#### DC POWER SUPPLIES

A 900 v. regulated dc. transformer has been added to a wide selection of transistorized, dc power suppliers. Designed for use in extreme environmental conditions, the unit is potted



in epoxy resin and sealed. Operates over ambient temperature range of -55 to 71°C. Unaffected by extremes of shock and vibration. Package operates on 24 to 32 vdc. input and delivers 900 vdc. at 30 ma within 3%. Output ripple is regulated within 3 v. peak to peak. The entire unit is integrated in a 2 x 234 in. package. The Ramo-Wooldridge Corp., P. O. Box 8405, Denver 10, Colo.

Circle 209 on Inquiry Card, page 201

#### TRIMMING POTS

Sub-miniature, precision wirewound trimming potentiometers with tabs especially for printed circuit applications, these new Acetrims have all the features of the regular line with round or flat tabs in place of terminals, to facilitate and speed up assembly with other circuit elements. Standard specifications: 1/2 in. size; weight ¼ oz.; 10 ohms to 150K;

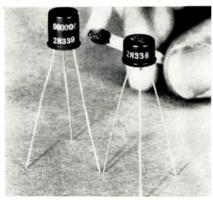


power 2 W @ 60° C. max.; temp. -55° C. to 125° C.; withstands shock. vibration, acceleration; meets applicable MIL SPECS. Ace Electronics Associates, Inc., 103 Dover St., Somerville 44, Mass.

Circle 210 on Inquiry Card, page 201

#### SILICON TRANSISTORS

Fifteen new silicon transistors are available. These round welded case transistors are designed and built for use with automatic production techniques in addition to meeting military



specs. Highlighting the silicon products are 2 switching transistors with total switching times down to 100 milli-microsec. Both switchers are N-P-N grown-diffused types featuring high alpha cutoff frequencies and low collector capacities. The other 13 welded case silicon units include 3 h-f tetrodes, 5 medium power devices, and 5 small signal transistors. Texas Instruments, Inc., Dallas 9, Tex.

Circle 211 on Inquiry Card, page 201

#### FLUX-DIP BRAZING

Flux-dip brazing, a new technique for joining complex, multi-joint aluminum assemblies in one operation, is now available. This process eliminates the many drawbacks of hand brazing, and assures unmatched high volume, low cost production. The major benefits of flux dip brazing are: mechanical accuracy, high strength, quality finish, and economy. It has proven

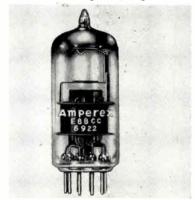


ideal for brazing waveguides, antennas, chassis and microwave assemblies and also has found wide application in the aviation, missile and instrument industries. Waveline, Inc., Caldwell, New Jersey.

Circle 212 on Inquiry Card, page 201

#### TWIN TRIODE

The new E88CC/6922 low-mu miniature twin triode is one of the "Premium Quality" line of guaranteed 10,000-hour tubes. Tube features, in addition to its long life, high trans-



conductance, low noise and rugged construction. Its principal uses are in cascode circuits, HF and IF amplifiers, mixer and phase inverter stages, and as a multivibrator and cathode follower in computers. It has a seperate cathode for each triode section. Detailed data and applications engineering information are available. Amperex Electronic Corp., 230 Duffy Ave., Hicksville, L. I., N. Y.

Circle 213 on Inquiry Card, page 201

#### 2-CHANNEL SCOPE

Equipped with vertical amplifiers capable of handling any frequency from DC to 15 MC, the model K-215 2-channel oscilloscope provides for accurate triggering, viewing or recording of simultaneous phenomena on a wide range of test or laboratory procedures. Two variable sweep generators have expanded ranges from 0.1 µsec/cm to 1 sec/cm. Features include

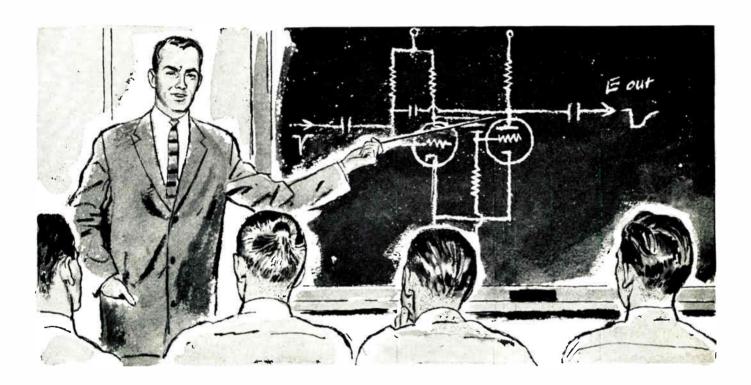


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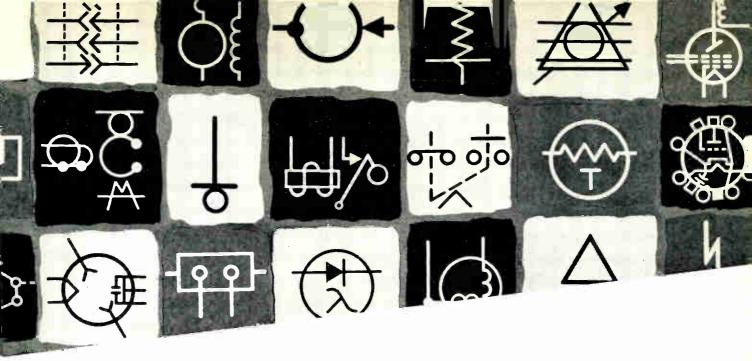
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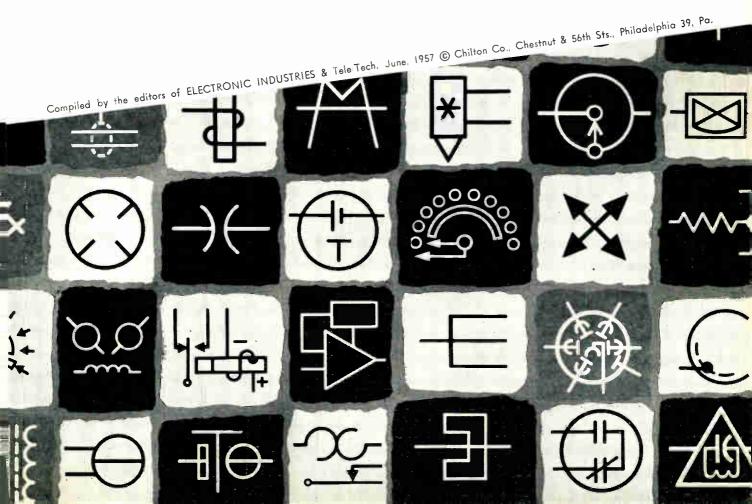
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#### 1957 ELECTRONIC INDUSTRIES DIRECTORY

# Product Listings

This is a listing of end products, component parts, equipment and instruments in the radio-TV-electronic industries, with the addition this year of such supplementary listings as accessories, cabinets, chemicals, hardware, raw materials and services related to the electronic field. Names and addresses of manufacturers are given for 2,666 product categories which are arranged into 100

major groups. Companies making these products or offering services in the field are arranged alphabetically into 100 major groups. Addresses are given with numbered references to group subdivisions. These numbers are printed to the right of each company to facilitate quick reference in selecting given categories.

#### 1-AMPLIFIERS, AUDIO Amplifiers, audio ...... Amplifiers, cuing ...... Amplifiers, decade ...... Amplifiers, distribution ...... Amplifiers, high-fidelity ..... Amplifiers, industrial sound .... Amplifiers, isolation ...... Amplifiers, limiting .. ...... Amplifiers, line ...... Amplifiers, microphone ...... 10 Amplifiers, miniature plug-in ... 11 Amplifiers, mixing .......... 12 Amplifiers, monitoring ...... 13 Amplifiers, musical instrument.. 14 Amplifiers, noise-suppressing ... 15 Amplifiers, plug-in ...... 16 Amplifiers, recording ...... 17 Amplifiers, remote ...... 18 Amplifiers, stereophonic...... 19 Amplifiers, tape playback .... 20 Amplifiers, tone-control ...... 21 Amplifiers, transistor ...... 22 Amplifiers, wideband ...... 23 Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 1-22 Advanced Electronics Inc 94 Silas Deane Hwy Rocky Hill 9 Conn 1 Aerovox Corp 740 Belleville Ave New Bedford Mass Alden Electronic & Impulse Recording P O Box 125 Westboro Mass Airtronix Development Corp 1-5-6-12-14-20 4902 Church St Brooklyn 3 NY 21-22-23 Allicd Radio Corp 100 N Western Ave Chicago 80 III 1-4-5-14 Altec Lansing Corp 1515 S Manchester Ave Anaheim Calif 12-13-16-18-19-21 2949 W Osborn Rd Phoenix Ariz 23 American Communications Corp 280 Broadway New York 17 NY 1-4-5 American Electronic Labs 121 N 7 St Philadelphia 6 Pa American Machine & Foundry Co Defense Products Group 1101 N Royal St Alexandria Va 1-6-American Mica Radio Corp 235 Parker Ave Manasquan NJ 1-5 American Research & Mfg Corp 920 Halping Ave Rockville Md AMI Inc 1500 Union Ave Grand Rapids 2 Mich 17 Grand Rapids 2 Mich 1-5-6 Amplifier Corp of America 398 Brondway New York 13 NY 1-17 Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 15 Anderton Electronic Lab 129 E 1800 S St 1-2-3-4-5-7-8-9-10 Bountiful Utah 12-13-16-17-18-19-20 Ansley Mfg Co Arthur New Hope Pa Antlab Inc 4950 N High St Columbus 14 Ohio 13 Applied Electronics Co 213 E Grand Ave S San Francisco Calif 1 1-5-6

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171 Ridgedale Ave Morristown NJ	1
Atlantic Research Corp 901 N Columbus St Alexandria Va	10-16
Audio Equipment Co 805 Middle Neck I Great Neck NY	6-14-22
Audio Instrument Co 133 W 14th St New York 11 NY Autocrat Electronics Co	10
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Barker & Williamson Inc	
Canal & Beaver Sts Bristol Pa Beckman Instruments Inc Data & Control Systems Scientific Instrument 325 N Muller Ave Anaheim Calif Bell Aircraft Corp P O Box 1 Buffalo 5 NY 1-3-7-8-9-11-12-13-15-1 Bell Sound Systems Inc 555 Marion Rd	Div
325 N Muller Ave Anaheim Calif Bell Aircraft Corp P O Box 1 Buffalo	16
5 NY 1-3-7-8-9-11-12-13-15-19 Bell Sound Systems Inc 555 Marion Rd Columbus 7 Ohio 1	6-18-23
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4519 Hamilton Ave Cleveland 14 Uni Commercial Radio Sound Corp 652 1 Ave New York 16 NY 1-4 Communication Equipment & Eng'g Cc 5646 W Race Ave Chicago 44 Ill Computing Devices of Canada Ltd P O Box 508 Ottawa Ontario Can Conn Telephone & Electric Corp 70 Brittania St Meriden Conn	1-6-8-1
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Dyna-Empire Inc	1
19.5 Stewart Ave Garden City LI N Dynalysis Development Labs Inc	Y 1
Dynalysis Development Labs Inc 11941 Wilshire Blvd Los Angeles 25 Dynamics Instrumentation Co Div	Calif :
Alberhill Corp 1118 Mission St S Pasadena Calif Dynamics Research Associates Div Universal Match Corp P O Box 5841 Ferguson 21 Mo	1'
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P O Box 5841 Ferguson 21 Mo	16
Electrend Products Corp Box 110 St Joseph Mich	1-
Electrola Inc 7517 N Clark St Chicago 26 Ill	:
Electron Enterprises 6917 W Stanley Ave Berwyn III 1	-5-14-22
Electronic Communication Equipment	Co
Chicago 26 Ill	12-13-18
362 W Bowery St Akron 7 Ohio	6-18-22
Box 110 St Joseph Mich Electrola Inc 7517 N Clark St Chicago 26 Ill Electron Enterprises 6917 W Stanley Ave Berwyn Ill 12 Electronic Communication Equipment 1249 W Loyola Ave Chicago 26 Ill Electronic Eng'g Co 362 W Bowery St Akron 7 Ohio Electronic Eng'g Co of Calif 180 S Alvarado Los Angeles 57 Calif Electronic Instrument Co 84 Witbers St Brooklyn 11 NY Electronic Research Associates 67 F Contro St Muslow 10 NI	f 9-22
Electronic Instrument Co	1-5-23
Electronic Research Associates	1-0-20
Electronic Systems Eng'g Co	1-6
	a 1-8-18
Electrosolids Corp 7436 Varna Ave N Hollywood Calif	12-16-22
Electro Sound Corp 115 Halleck St Boston 15 Mass Electro-Technical Labs Div Mandrel	1-6-20
Electro-Technical Labs Div Mandrel	1-0-2(
I <b>ndustries</b> 5134 Glenmont Houston Texas	20

Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich 1-5-9-10	Krohn-Hite Corp 580 Massachusetts Ave	Oltronix Corp 235 Underwood Dr Atlanta 5 Ga 17
Elm Labs	Cambridge 39 Mass 1-23	Omega Instrument Co
10 Washington Ave Hastings-on-Hudson NY 1	Kuss Industries Inc Tacony & Lewis Sts Philadelphia 24 Pa 22	103 E Altadena Dr Altadena Calif 23 Palmer Inc M V
El-Tronics Inc	Labko Scientific Inc	4002 Fruit Valley Rd
Penn Ave Mayfield Pa 1 Endevco Corp	111 W Elm Stillwater Okla 5-11-22 Lab-Tronics Inc	Vancouver Wash 5-6-7-8-9-19-21 Pampa Electronics Corp
161 E California St Pasadena Calif 10	3656 N Lincoln Ave Chicago Ill 22	7354 Frankford Ave
Engineered Electronics Co	Land-Air Inc Instrument & Electronic Div 2133 Adams Ave San Leandro Calif 22	Philadelphia 36 Pa 1-20 Pedersen Electronics
506 E 1 St Santa Ana Calif 1-11-16-23 E O Electronics Inc	Lane Electronics Mfg Corp	3667A Mt Diablo Blvd Lafayette Calif 1-5-6
Mountain Lakes NJ 3	7254 Atoll Ave N Hollywood Calif 1-7 Langevin Mfg Corp	Peer Inc 1200 Milton St Benton Harbor Mich 1
Epsco Inc 588 Commonwealth Ave Boston 15 Mass 1	47-37 Austell Pl 1-2-3-4-6-7-9-10-12-13	Pentron Corp
Ercona Corp	Long Island City 1 NY 16-18-22-23 L E E Inc	777 S Tripp Ave Chicago 24 Ill 1-6-12-17-19-20
551 5 Ave New York 17 NY 1-5-17-19-20 Erco Radio Labs Inc	625 NY Ave N W Washington 1 D C 12	Permoflux roducts Co
637 Stewart Ave Garden City NY 1-8-22	Leeds & Northrup Co 4970 Stenton Ave Philadelphia 44 Pa 17	4101 San Fernando Rd Glendale Calif 1-5-7-10-11-16-19-22
Fairchild Guided Missiles Div	Lehigh Valley Electronics Eng'g & Mfg Co	Philbrick Researches Inc George A
Fairchild Engine & Airplane Corp Straight Path Wyandanch LI NY 3-15	215 S 3 St Allentown Pa 1 Lel Inc	230 Congress St Boston 10 Mass 16 Philmore Mfg Co
Fairchild Recording Equipment Co	380 Oak St Copiague NY	113 University Pl New York 3 NY 5
10-40 45 Ave Long Island City 1 NY 1-5 Federal Mfg & Eng'g Corp	Ling Electronics Inc	Photron Instrument Co
1055 Stewart Ave Garden City NY 1	5120 W Jefferson Blvd Los Angeles 16 Calif	6516 Detroit Ave Cleveland 2 Ohio 16-17 Plastics & Electronics Corp
Federal Telephone & Radio Co Div IT&T	Linlar Inc	P O Box 38 Station J
100 Kingsland Rd Clifton NJ 1 Femco Inc	4101 San Fernando Rd Glendale 4 Calif 5-22 Loge Sound Engrs J M	Buffalo 8 NY 1-22 Power Supplies Inc
Irwin Pa 1-6	2171 W Washington Blvd	1005 Olive St Highland Ill 8
Fidelity Amplifier Co 703 Willow St Chicago 14 Ill 1-22	Los Angeles 18 Calif 1-6 Lynmar Engineers Inc	Pratt Albert 114 W Lake View Ave Milwaukee 17 Wisc 5
Fisher Radio Corp	1432 N Carlisle St	Precise Development Corp
21-21 44 Dr 1-5-6-10-12-14-15-17	Philadelphia 21 Pa 1-5-22-23 McIntosh Laboratory Inc	2 Neil Ct Oceanside NY 1-10-22-23 Precision Hearing Aids
Long Island City 1 NY 18-20-21-22-23 Freed Transformer Co	2 Chambers St	5157 W Grand Ave Chicago 39 Ill 1-19
1718-36 Weirfield St Brooklyn 27 NY 11	Binghamton NY 1-4-5-6-9-12-13-17-23 Mack Electronics Div Inc Sub Mack	Precision Radiation Instruments Inc
Gates Radio Co 123 Hampshire St	Trucks Inc	4223 W Jefferson Blvd Los Angeles 16 Calif 1-5
Quincy Ill 1-8-9-10-12-13-18-22	1120 S 2 St Plainfield NJ 1	Press Wireless Labs Inc
General Precision Lab Inc	Madison-Fielding Corp 863 Madison St Brooklyn 21 NY 5-6-10-12	25 Prospect Pl W Newton 65 Mass 8-9-17 Presto Recording Corp
63 Bedford Rd Pleasantville NY 4 General Radio Co	Magna Electronics Co	Box 500 Paramus NJ 8-17-20
275 Massachusetts Ave	9810 Anza Ave Inglewood 1 Calif 1-14-17 Magnasync Mfg Co	Production Research Corp Thornwood 1-2-3-4-5-7-8-9-10-12
Cambridge 39 Mass 1-23 G & M Equipment Co	5546 Satsuma Ave	NY 13-14-15-19-20-21-22-23
7315 Varna Ave N Hollywood Calif 1-6	N Hollywood Calif 1-12-13-16-17-19-20 Magnecord Div Midwestern Instruments Inc	Pulse Techniques Inc 1411 Palisade Ave
Good Electric Corp Natick Mass 11-16	1101 S Kilbourn Ave	W Englewood NJ 1-9-10-20
Goodyear Aircraft Corp	Chicago 24 Ill 1-17-19-20 Magnetic Amplifiers Inc	Pye Canada Ltd 82 Northline Rd Toronto 16
1210 Massillon Rd Akron 15 Ohio 16-22	632 Tinton Ave New York 55 NY 22	Ontario Canada 1-5-12-13-22
Gotham Audio Development Corp 1-4-6-9-13 2 W 46 St New York 36 NY 17-20-23	Majestic Int'l Corp 79 Washington St Brooklyn 1 NY 5	Pye Telecommunications Ltd Newmarket Rd Cambridge England 1-22-23
GPS Instrument Co	Marantz Co	Radio Corp. of America 1-2-4-5-6-7
811 Boylston St Boston 16 Mass 6 Gray Research & Development Co	4415 Vernon Blvd	Commercial Electric Products 8-9-10-11-12
Hilliard St Manchester Conn 1-5-6-13	Long Island City 1 NY 1-5 Matthew Labs	Camden 2 NJ 13-16-21-22 Radio Kits Inc 120 Cedar St
Greene Co L Charlton 314 Washington St Newton 58 Mass 16	146 Riverdale Ave Yonkers NY 17	New York 6 NY
Hallicrafters Co	Maurer Inc J A 37-01 31 St	Radionics Inc PO Box 186
4401 W 5 Ave Chicago 24 Ill 1-4 Hall-Scott Inc Electronics Div	Long Island City 1 NY 1-12-13-15-17	Cockeysville Md 8
2950 N Ontario St Burbank Calif 16	Maxson Corp W L 475 10 Ave New York 18 NY 10	Ramo-Wooldridge Corp 5730 Arbor Vitae St
Hamilton Electronics 2726 Pratt Ave	MB Mfg Co Div Textron Inc	Los Angeles 45 Calif
Chicago 45 Ill 1-4-5-6-10-12-22	1060 State St New Haven 11 Conn 1 Measurement Eng'g Ltd	Ransom Research 323 W 7 St
Hancock Electronics Corp 2553 Middlefield Rd Redwcod City Calif 22	232 John St Arnprior Ont Can 1-6-9-22	San Pedro Calif 16-22
Harman-Kardon Inc	Melody Master Mfg Co 2842 N Cicero Ave	Rauland-Borg Corp 3515 W Addison St Chicago 18 III 1-5-6-12
520 Main St Westbury LI NY	Chicago 41 Ill 1-3-4-5-18	Reflectone Corp
Harrison Labs 45 Industrial Rd Berkeley Heights NJ 16	Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill 1-12-14	Boston Post Rd Stamford Comm 1
Harvey-Wells Electronics Inc	Mid-Century Instrumatic Corp	Regency Div Idea Inc 7900 Pendleton Pike
North St Southbridge Mass 1-5 Hathaway Instrument Div Hamilton	611 Broadway New York 12 NY 17 Midwestern Instruments	Indianapolis 26 Ind 1-5
Watch Co	PO Box 7186 Tulsa Okla 17	Remler Co 2101 Bryant St
5800 E Jewell Ave Denver 22 Colo 17 Heath Co	Millivac Instrument Corp	San Francisco Calif 1-4-6-9-10-22
305 Territorial Rd	2315 2 Ave Carman Schenectady NY 15-22 Mine Safety Appliances Co	Rheem Mfg Co Electronics Div 7777 Industry Ave Rivera Calif 11
Benton Harbor Mich 1-5-23 Heiland Div Minneapolis-Honeywell	201 N Braddock Ave Pittsburgh 8 Pa 1	Rhein Sound Systems Inc
5200 E Evans Ave Denver 22 Colo 16-17	Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn 16	133 Hamilton St 1-6-7-8-9-10-11-12-13 New Haven 5 Conn 14-16-17-20-21-23
Hoover Electronics Co		
	Model Eng'g & Mfg Inc	
3640 Woodland Ave Baltimore 7 Md 11 Industrial Development Eng'g Assoc	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-10-16	Rixon Electronics Inc 2414 Reedie Dr Silver Spring Md 4
Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind 5	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-10-16 Mohawk Business Machines Corp 944 Halsey St	Rixon Electronics Inc 2414 Reedie Dr Silver Spring Md RME Div Electro Voice Inc
Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind Industrial Research Labs Div Aeronca	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-10-16 Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY 1-6-10-12-17-20-22	Rixon Electronics Inc 2414 Reedie Dr Silver Spring Md 4 RME Div Electro Voice Inc Buchanan Mich Roflan Co 1-5-6
Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28, Md 1	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-10-16 Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY 1-6-10-12-17-20-22 Motiograph Inc 4441 W Lake St Chicago 24 Ill 1-19	Rixon Electronics Inc 2414 Reedie Dr Silver Spring Md 4 RME Div Electro Voice Inc Buchanan Mich Roflan Co Topsfield Mass 1-5-6
Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28, Md 1 Industrial Test Equipment Co	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-10-16 Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY 1-6-10-12-17-20-22 Motiograph Inc 4441 W Lake St Chicago 24 III 1-19 MP Engineering Co Fairfield 3 Conn 1-5	Rixon Electronics Inc 2414 Reedie Dr Silver Spring Md 4 RME Div Electro Voice Inc Buchanan Mich Roflan Co Topsfield Mass 1 RS Electronics Corp 435 Portage Ave
Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28, Md 1 Industrial Test Equipment Co 55 E 11 St New York 3 NY 1-3-7-8-23 Industrial TV Inc	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-10-16 Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY 1-6-10-12-17-20-22 Motiograph Inc 4441 W Lake St Chicago 24 Ill 1-19	Rixon Electronics Inc         2414 Reedie Dr Silver Spring Md         4           RME Div Electro Voice Inc         1-5-6           Buchanan Mich         1-5-6           Roflan Co         1           Topsfield Mass         1           RS Electronics Corp         435 Portage Ave           Palo Alto Calif         11-16
Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28, Md 1 Industrial Test Equipment Co 55 E 11 St New York 3 NY 1-3-7-8-23 Industrial TV Inc 369 Lexington Ave Clifton NJ 1-4-8	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-10-16 Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY 1-6-10-12-17-20-22 Motiograph Inc 4441 W Lake St Chicago 24 Ill 1-19 MP Engineering Co Fairfield 3 Conn M Ten Bosch Inc 80 Wheeler Ave Pleasantville NY 22 National Aircraft Corp	Rixon Electronics Inc         2414 Receile Dr Silver Spring Md         4           RME Div Electro Voice Inc         1-5-6           Buchanan Mich         1-5-6           Roflan Co         1           Topsfield Mass         1           RS Electronics Corp         435 Portage Ave           Palo Alto Calif         11-16           Sargent-Rayment Co         4926 E 12 St Oakland 1 Calif         1-5
Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28, Md 1 Industrial Test Equipment Co 55 E 11 St New York 3 NY 1-3-7-8-23 Industrial TV Inc 369 Lexington Ave Clifton NJ 1-4-8 International Research Associates 2221 Warwick Ave	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-10-16 Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY 1-6-10-12-17-20-22 Motiograph Inc 4441 W Lake St Chicago 24 Ill 1-19 MP Engineering Co Fairfield 3 Conn M Ten Bosch Inc 80 Wheeler Ave Pleasantville NY 22 National Aircraft Corp 3411 Tulare Ave Burbank Calif 1 National Bell Corp	Rixon Electronics Inc   2414 Reedie Dr Silver Spring Md   4
Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28, Md 1 Industrial Test Equipment Co 55 E 11 St New York 3 NY 1-3-7-8-23 Industrial TV Inc 369 Lexington Ave Clifton NJ 1-4-8 International Research Associates 2221 Warwick Ave Santa Monica Calif 1-10-22	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-10-16 Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY 1-6-10-12-17-20-22 Motiograph Inc 4441 W Lake St Chicago 24 III MP Engineering Co Fairfield 3 Conn 1-6 M Ten Bosch Inc 80 Wheeler Ave Pleasantville NY 22 National Aircraft Corp 3411 Tulare Ave Burbank Calif 1 National Bell Corp 6 Lafayette Ave Brooklyn 17 NY 6-14	Rixon Electronics Inc         2414 Reedie Dr Silver Spring Md         4           RME Div Electro Voice Inc         1-5-6           Buchanan Mich         1-5-6           Roflan Co         1-5-6           Topsfield Mass         1           RS Electronics Corp         435 Portage Ave           Palo Alto Calif         11-16           Sargent-Rayment Co         4926 E 12 St Oakland 1 Calif         1-5           Scantlin Electronics Inc         11624 W Pico Blvd Los Angeles 64 Calif         22           Schirmer-National Alarm Co         22
Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28, Md 1 Industrial Test Equipment Co 55 E 11 St New York 3 NY 1-3-7-8-23 Industrial TV Inc 369 Lexington Ave Clifton NJ 1-4-8 International Research Associates 2221 Warwick Ave Santa Monica Calif 1-10-22 Johnson Co E F Wasseca Minn 1-8	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-10-16 Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY 1-6-10-12-17-20-22 Motiograph Inc 4441 W Lake St Chicago 24 Ill 1-19 MP Engineering Co Fairfield 3 Conn M Ten Bosch Inc 80 Wheeler Ave Pleasantville NY 22 National Aircraft Corp 3411 Tulare Ave Burbank Calif 1 National Bell Corp 6 Lafayette Ave Brooklyn 17 NY National Company Inc 61 Sherman St Malden 48 Mass 5	Rixon Electronics Inc         2414 Reedie Dr Silver Spring Md         4           RME Div Electro Voice Inc         1-5-6           Buchanan Mich         1-5-6           Roflan Co         1           Topsfield Mass         1           RS Electronics Corp         435 Portage Ave           Palo Alto Calif         11-16           Sargent-Rayment Co         4926 E 12 St Oakland 1 Calif         1-5           Scantlin Electronics Inc         11624 W Pico Blvd Los Angeles 64 Calif         22           Schirmer-National Alarm Co         20 Westside Ave Bergenfield NJ         1-5-22
Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28, Md 1 Industrial Test Equipment Co 55 E 11 St New York 3 NY 1-3-7-8-23 Industrial TV Inc 369 Lexington Ave Clifton NJ 1-4-8 International Research Associates 2221 Warwick Ave Santa Monica Calif 1-10-22 Johnson Co E F Waseca Minn 1-8 Kaiser Aircraft & Electronics Corp	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-10-16 Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY 1-6-10-12-17-20-22 Motiograph Inc 4441 W Lake St Chicago 24 Ill MP Engineering Co Fairfield 3 Conn M Ten Bosch Inc 80 Wheeler Ave Pleasantville NY 22 National Aircraft Corp 3411 Tulare Ave Burbank Calif 1 National Bell Corp 6 Lafayette Ave Brooklyn 17 NY National Company Inc 61 Sherman St Malden 48 Mass Navco Navigation Computer Corp	Rixon Electronics Inc   2414 Reedie Dr Silver Spring Md   4
Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28, Md 1 Industrial Test Equipment Co 55 E 11 St New York 3 NY 1-3-7-8-23 Industrial TV Inc 369 Lexington Ave Clifton NJ 1-4-8 International Research Associates 2221 Warwick Ave Santa Monica Calif 1-10-22 Johnson Co E F Wasseca Minn Kaiser Aircraft & Electronics Corp Toledo Electronics Div P O Box 437	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-10-16 Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY 1-6-10-12-17-20-22 Motiograph Inc 4441 W Lake St Chicago 24 Ill 1-19 MP Engineering Co Fairfield 3 Conn M Ten Bosch Inc 80 Wheeler Ave Pleasantville NY 22 National Aircraft Corp 3411 Tulare Ave Burbank Calif 1 National Bell Corp 6 Lafayette Ave Brooklyn 17 NY National Company Inc 61 Sherman St Malden 48 Mass Navco Navigation Computer Corp 1621 Snyder Ave Philadelphia 45 Pa 11-17	Rixon Electronics Inc         2414 Reedie Dr Silver Spring Md         4           RME Div Electro Voice Inc         Buchanan Mich         1-5-6           Roflan Co         Topsfield Mass         1           RS Electronics Corp         435 Portage Ave         1-1-16           Palo Alto Calif         11-16           Sargent-Rayment Co         4926 E 12 St Oakland 1 Calif         1-5           Scantlin Electronics Inc         11624 W Pico Blvd Los Angeles 64 Calif         22           Schirmer-National Alarm Co         20 Westside Ave Bergenfield NJ         1-5-22           Schulmerich Electronics Inc         1-4-5-6-7-8-9-11-12         Pa           Sellersville         1-4-5-6-7-8-9-11-12         Pa           14-17-19-20-21-22-23         14-17-19-20-21-22-23
Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28, Md 1 Industrial Test Equipment Co 55 E 11 St New York 3 NY 1-3-7-8-23 Industrial TV Inc 369 Lexington Ave Clifton NJ 1-4-8 International Research Associates 2221 Warwick Ave Santa Monica Calif 1-10-22 Johnson Co E F Waseca Minn Kaiser Aircraft & Electronics Corp Toledo Electronics Div P O Box 437 Toledo Ohio 1-3-6-9-10-11-12-16-20-22	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-10-16 Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY 1-6-10-12-17-20-22 Motiograph Inc 4441 W Lake St Chicago 24 Ill MP Engineering Co Fairfield 3 Conn 1-5 M Ten Bosch Inc 80 Wheeler Ave Pleasantville NY 22 National Aircraft Corp 3411 Tulare Ave Burbank Calif 1 National Bell Corp 6 Lafsyette Ave Brooklyn 17 NY National Company Inc 61 Sherman St Malden 48 Mass Navco Navigation Computer Corp 1621 Snyder Ave Philadelphia 45 Pa 11-17 Neill Co R 4320 Montrose Ave Chicago 41 Ill 1-9-10	Rixon Electronics Inc   2414 Reedie Dr Silver Spring Md   4
Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28, Md 1 Industrial Test Equipment Co 55 E 11 St New York 3 NY 1-3-7-8-23 Industrial TV Inc 369 Lexincton Ave Clifton NJ 1-4-8 International Research Associates 2221 Warwick Ave Santa Monica Calif 1-10-22 Johnson Co E F Waseca Minn 1-8 Kaiser Aircraft & Electronics Corp Toledo Electronics Div P O Box 437 Toledo Ohio 1-3-6-9-10-11-12-16-20-22 Kay Electric Co	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-10-16 Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY 1-6-10-12-17-20-22 Motiograph Inc 4441 W Lake St Chicago 24 Ill 1-19 MP Engineering Co Fairfield 3 Conn M Ten Bosch Inc 80 Wheeler Ave Pleasantville NY 22 National Aircraft Corp 3411 Tulare Ave Burbank Calif 1 National Bell Corp 6 Lafayette Ave Brooklyn 17 NY 6-14 National Company Inc 61 Sherman St Malden 48 Mass Navco Navigation Computer Corp 1621 Snyder Ave Philadelphia 45 Pa 11-17 Neill Co R W 4320 Montrose Ave Chicago 41 Ill 1-9-10 Newcomb Audio Products Co	Rixon Electronics Inc   2414 Reedie Dr Silver Spring Md   4
Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28, Md 1 Industrial Test Equipment Co 55 E 11 St New York 3 NY 1-3-7-8-23 Industrial TV Inc 369 Lexington Ave Clifton NJ 1-4-8 International Research Associates 2221 Warwick Ave Santa Monica Calif 1-10-22 Johnson Co E F Waseca Minn Kaiser Aircraft & Electronics Corp Toledo Electronics Div P O Box 437 Toledo Ohio 1-3-6-9-10-11-12-16-20-22 Kay Electric Co 14 Maple Ave Pine Brook NJ 22 Keithley Instruments Inc.	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-10-16 Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY 1-6-10-12-17-20-22 Motiograph Inc 4441 W Lake St Chicago 24 Ill 1-19 MP Engineering Co Fairfield 3 Conn M Ten Bosch Inc 80 Wheeler Ave Pleasantville NY 22 National Aircraft Corp 3411 Tulare Ave Burbank Calif 1 National Bell Corp 6 Lafayette Ave Brooklyn 17 NY National Company Inc 61 Sherman St Malden 48 Mass Navco Navigation Computer Corp 1621 Snyder Ave Philadelphia 45 Pa 11-17 Neill Co R W 4320 Montrose Ave Chicago 41 Ill 1-9-10 Newcomb Audio Products Co 6824 Lexington Ave 1-4-5-6-9-10-12-14 Los Angeles 38 Calif 17-18-19-20	Rixon Electronics Inc   2414 Reedie Dr Silver Spring Md   4
Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28, Md 1 Industrial Test Equipment Co 55 E 11 St New York 3 NY 1-3-7-8-23 Industrial TV Inc 369 Lexington Ave Clifton NJ 1-4-8 International Research Associates 2221 Warwick Ave Santa Monica Calif 1-10-22 Johnson Co E F Waseca Minn 1-8 Kaiser Aircraft & Electronics Corp Toledo Electronics Div P O Box 437 Toledo Ohio 1-3-6-9-10-11-12-16-20-22 Kay Electric Co 14 Maple Ave Pine Brook NJ 22 Keithley Instruments Inc. 12415 Euclid Ave	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-10-16 Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY 1-6-10-12-17-20-22 Motiograph Inc 4441 W Lake St Chicago 24 Ill 1-19 MP Engineering Co Fairfield 3 Conn 1-5 M Ten Bosch Inc 80 Wheeler Ave Pleasantville NY 22 National Aircraft Corp 3411 Tulare Ave Burbank Calif 1 National Bell Corp 6 Lafayette Ave Brooklyn 17 NY 6-14 National Company Inc 61 Sherman St Malden 48 Mass Navco Navigation Computer Corp 1621 Snyder Ave Philadelphia 45 Pa 11-17 Neill Co R W 4320 Montrose Ave Chicago 41 Ill 1-9-10 Newcomb Audio Products Co 6824 Lexington Ave 1-4-5-6-9-10-12-14 Los Angeles 38 Calif 17-18-19-20 Northern Radio Co	Rixon Electronics Inc   2414 Reedie Dr Silver Spring Md   4
Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28, Md 1 Industrial Test Equipment Co 55 E 11 St New York 3 NY 1-3-7-8-23 Industrial TV Inc 369 Lexington Ave Clifton NJ 1-4-8 International Research Associates 2221 Warwick Ave Santa Monica Calif 1-10-22 Johnson Co E F Waseca Minn 1-8 Kaiser Aircraft & Electronics Corp Toledo Electronics Div P O Box 437 Toledo Ohio 1-3-6-9-10-11-12-16-20-22 Kay Electric Co 14 Maple Ave Pine Brook NJ 22 Keithley Instruments Inc. 12415 Euclid Ave Cleveland 6 Ohio 1-3-7-17-23 Keystone Products Co	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-10-16 Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY 1-6-10-12-17-20-22 Motiograph Inc 4441 W Lake St Chicago 24 Ill 1-19 MP Engineering Co Fairfield 3 Conn M Ten Bosch Inc 80 Wheeler Ave Pleasantville NY 22 National Aircraft Corp 3411 Tulare Ave Burbank Calif 1 National Bell Corp 6 Lafayette Ave Brooklyn 17 NY 6-14 National Company Inc 61 Sherman St Malden 48 Mass Navco Navigation Computer Corp 1621 Snyder Ave Philadelphia 45 Pa 11-17 Neill Co R W 4320 Montrose Ave Chicago 41 Ill 1-9-10 Newcomb Audio Products Co 6824 Lexington Ave 1-4-5-6-9-10-12-14 Los Angeles 38 Calif 17-18-19-20 Northern Radio Co 143 W 22 St New York 11 NY 9 Nuclear-Electronics Corp	Rixon Electronics Inc   2414 Reedie Dr Silver Spring Md   4
Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28, Md 1 Industrial Test Equipment Co 55 E 11 St New York 3 NY 1-3-7-8-23 Industrial TV Inc 369 Lexincton Ave Clifton NJ 1-4-8 International Research Associates 2221 Warwick Ave Santa Monica Calif 1-10-22 Johnson Co E F Waseca Minn 1-8 Kaiser Aircraft & Electronics Corp Toledo Electronics Div P O Box 437 Toledo Ohio 1-3-6-9-10-11-12-16-20-22 Kay Electric Co 14 Maple Ave Pine Brook NJ 22 Keithley Instruments Inc. 12415 Euclid Ave Cleveland 6 Ohio 1-3-7-17-23	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 50 Frederick St Huntington Ind Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY 1-6-10-12-17-20-22 Motiograph Inc 4441 W Lake St Chicago 24 Ill 1-19 MP Engineering Co Fairfield 3 Conn M Ten Bosch Inc 80 Wheeler Ave Pleasantville NY 22 National Aircraft Corp 3411 Tulare Ave Burbank Calif 1 National Bell Corp 6 Lafayette Ave Brooklyn 17 NY 6-14 National Company Inc 61 Sherman St Malden 48 Mass Navco Navigation Computer Corp 1621 Snyder Ave Philadelphia 45 Pa 11-17 Neill Co R W 4320 Montrose Ave Chicago 41 Ill 1-9-10 Newcomb Audio Products Co 6824 Lexington Ave 1-4-5-6-9-10-12-14 Los Angeles 38 Calif 17-18-19-20 Northern Radio Co 143 W 22 St New York 11 NY 9	Rixon Electronics Inc   2414 Reedie Dr Silver Spring Md   4

Servomechanisms Inc	US Recording Co	Ampitel Inc
12500 Aviation Blvd	1121 Vermont Ave 1-2-4-5-6-9-10	342 W 40 St New York 18 NY 1-2-1
Hawthorne Calif 16	Washington 5 DC 12-17-18-20	Amtron Corp
Shasta Div Beckman Instruments Inc	Valandy Electronics Corp	17 Felton St Waltham 54 Mass 9-14-1
PO Box 296 Station A Richmond Calif 23	61-35 166 St Flushing 68 NY 4-5-22	Andersen Labs Inc
Shepard Labs Inc 480 Morris Ave	Valco Mfg Co	39 Talcott Rd W Hartford Conn
Summit NJ 10-20	4700 W Walton St Chicago 51 lll 14	Antlab Inc
Sherwood Electronic Labs Inc	Varo Mfg Co	4950 N High St Columbus 14 Ohio 1
2802 W Cullom Ave Chicago 18 Ill 5	2201 Walnut St Garland Texas 1-22	Applied Research Inc
Shrader Sound Inc	Vicon Inc	163-07 Depot Rd Flushing 58 NY 3-14-1
2802 M St NW Washington 7 DC 1	1353 Mesita Rd Colorado Springs Colo 22	Babcock Radio Eng'g Inc
Simplex Equipment Corp	Vidaire Electronics Mfg Corp	7942 Woodley Ave Van Nuys Calif
55 La France Ave	576 W Merrick Rd Lynbrook NY 1-16	Barker & Williamson Inc
Bloomfield NJ 1-5-6-10-19-22	Virginia Electronics Co	Canal & Beaver Sts Bristol Pa 3-14-15-1
Simpson Mfg Co Mark	River Rd & B&O RR 1-4-7-9-10-11	Bell Aircraft Corp 3-4-6-7-8-9-10-1
32-28 49 St 1-4-5-6-7-9-12	Washington 16 DC 12-18-22	P O Box 1 Buffalo 5 NY 12-13-14-15-1
Long Island City 3 NY 13-14-17-18-21	V-M Corp 4 & Park Sts Benton Harbor Mich 5	Bendix Aviation Corp
Skiatron Electronics & TV Corp	Volkers & Schaffer Mfg Corp	1104 Fisher Bldg Detroit 2 Mich
180 Varick St New York 14 NY 2-5-17	2315 2 Ave Carman Schenectady NY 1-22-23	Blonder-Tongue Laboratories 9-25 Alling St Newark 2 NJ 1-1
Solartron Electronic Group Ltd	Voron & Co George	
Queens Rd Thames Ditton	835 N 19 St	Boehme Inc H O 915 Broadway New York 10 NY
Surrey England 1-23	Philadelphia 30 Pa 4-5-6-8-9-10-12-23	
Sonex Inc 73 S State Rd	Waldorf Instrument Co	Bozue Electric Mfg Co Iowa Ave Paterson 3 NJ 1
Upper Darby Pa 1-5-21-22	Div F C Huyck & Sons Park Ave	Bolton Labs Inc
Spivey Inc James S	Huntington Station NY 1-22	W Main St Bolton Mass
4908 Hampden Lane Washington 14 DC 1-22	Walkirt Co 141 W Hazel St	Brach Mfg Corp
Stancil-Hoffman Corp	Inglewood 3 Calif 1-16	200 Central Ave Newark 8 NJ
921 N Highland Ave	Wallson Associates Ltd	Browning Labs Inc
Hollywood 38 Calif 1-6-8-17-19-20-22	963 Frelinghuysen Ave Newark 12 NJ 1	750 Main St Winchester Mass 6-
Standard Electronics Div Radio Eng'g Labs	. Webster Electric Co	Budelman Radio Corp
30 & Borden Sts Long Island City NY 12	1900 Clark St Racine Wisc 1-5-6	375 Fairfield Ave Stamford Conn
Standard Instruments	West Coast Research Corp	Calbest Electronics Co
PO Box 11556 1-5-6-9-10-13-14-17	23711/2 Westwood Blvd	4801 Exposition Blvd
PO Box 11556 1-5-6-9-10-13-14-17 Dallas 18 Texas 18-19-20-21-22-23	Los Angeles 64 Calif 17	Los Angeles 16 Calif 2-4-1
Steima inc	Westinghouse Electric Corp	Calif Technical Industries
190 Henry St Stamford Conn 1	P O Box 868 Pittsburgh 30 Pa 16	1421 Old County Rd Belmont 10 Calif
Stewart Warner Electronics Div	Western Electro Acoustic Lab Inc	Canoga Corp
1300 N Kostner Ave	11789 San Vicente Blvd	5955 Sepulveda Blvd Van Nuys Calif
Chicago 51 Ill 1-2-3-11-15-22	Los Angeles 49 Calif 1-6-9-10-23	Central Electronic Inc
Stratford Corp	Westrex Corp 111 8 Ave	1247 W Belmont Ave
44 W 28 St New York 1 NY 1-22	New York 11 NY 1-6-10-13-16-17	Chicago 13 Ill 3-14-15-1
Stromberg-Carlson Div General Dynamics Corp	Westronics Inc 3605 McCart Ft Worth Texas 17	CG Electronics Corp
100 Carlson Rd		305 Dallas St N E Albuquerque New Mex 1
Rochester 3 NY 1-2-4-6-9-13-18	Wheeler Insulated Wire Co 150 E Aurora St	CGS Laboratories Inc 391 Ludlow St Stamford Conn
Symphony Electronics Corp	Waterbury 20 Conn 1-4-7-8-9	Chicago Aerial Industries Inc
925 S Western Ave Los Angeles 6 Calif 1-22	White Instrument Labs	1980 N Hawthorne Ave Melrose Park Ill
Taffet Radio & TV Co	Box 9006 Allandale Station	Clegg Labs Div Clegg Inc
27-05 Brooklyn-Queens Expressway	Austin 17 Texas 16	Ridgedale Ave Morristown NJ 9-1
W Woodside 77 NY 1-3	Whitley Electronics Inc	Coil Winders Inc
Tarc Electronics Inc	411 S Chauncey St Columbia City Ind 1	New York Ave Westbury LI NY
48 Urban Ave	Wide Range Recording Corp	Collins Radio Co
Westbury LI NY 1-4-9-11-12-13-16-18-23	527 N Grand Blvd	855 35 St N E Cedar Rapids Iowa 1
Tarzian Inc Sarkes	St Louis 13 Mo 11-12-13-15-16-17-18-22	Commercial Radio Sound Corp
E Hillside Drive Bloomington Ind 1	Wilmar Mfg Co	652 1 Ave New York 16 NY 1-
Tech-Master Corp	1110 Truman Rd Kansas City Mo 1	Community Eng'g Corp
75 Front St Brooklyn 1 NY 1		Box 824 State College Pa 2-14-1
Techtron Electronics Ltd		Continental Electronics Mfg Co 9-13-1
583 Gramatan Ave	3 4400 JEIEBE BE IE	4212 S Buckner Blvd Dallas 27 Texas 15-1
Mt Vernon NY 1-4-5-13-15-19-20-23 Tektronix Inc	2—AMPLIFIERS, RF-IF	Corbin Corp
		5419 56 Pl Riverdale Md
PO Box 831 Portland 7 Ore 11 Telectro Industries Corp	Amplifiers, antenna 1	DeMornay-Bonardi Corp
35-18 37 St	Amplifiers, distribution 2	780 S Arroyo Pkwy Pasadena Calif 9-1
Long Island City 1 NY 1-5-17-19-20	Amplifore IE	Denson Electronics Corp
Telectronic Labs Inc	Amplifiers, IF	P O Box 122 Rockville Conn
1835 W Rosecrans Ave Gardena Calif 1-5	Amplifiers, isolation 4	Doty Acoustical Electronic Labs 431 Broome St New York 13 NY 2-
Telematic Industries Inc	Amplifiers, keying 5	
16 Howard Ave Brooklyn 7 NY 1-5-22	Amplifiers, klystron 6	Dwyer Eng'g Co Pine St Ext Nashua NH 3-9-13-1
Telemeter Magnetics Inc	Amplifiers, limiting 7	Eitel-McCullough Inc
2245 Pontius Ave Los Angeles 64 Calif 17	Amplifore Par	798 San Mateo Ave San Bruno Calif
Telephonics Corp	Amplifiers, line 8	Electrend Products Corp
Park Ave	Amplifiers, microwave 9	Box 110 St Joseph Mich
Huntington LI NY 1-3-7-8-10-16-22	Amplifiers, mixing 10	Electrical & Physical Instrument Corp
Teletone Co of America	Amplifiers, monitoring 11	42-19 27 St Long Island City 1 NY
1178 E 180 St Bronx 60 NY Teletronics Lab Inc	Amplifors poice commercian 12	Electro Sound Corp
54 Kinkel St Westbury NY 1	Amplifiers, noise-suppressing 12	115 Haleck St Boston 15 Mass
Telex	Amplifiers, radar 13	Emerson Electric Mfg Co
1633 Eustis St St Paul 1 Minn 1	Amplifiers, R-F	8100 Florissant Ave
Textran Corp	Amplifiers, single-sideband 15	St Louis 21 Mo 3-9-13-1
Box 4252 Austin 51 Texas 22	Amplifiers, wideband 16	Entron Inc
Thorens Co	Ampinoral middeand	4902 Lawrence St Bladensburg Md 1-2-4-7-8-10-14-1
Thorens Ave New Hyde Park NY 5		Bladensburg Md 1-2-4-7-8-10-14-1 Erco Radio Labs Inc
Transelectric Mfg Co		637 Stewart Ave
Hopewell Rd Oxford Pa 22	Adler Electronics Inc	Garden City NY 1-5-14-15-1
Transicoil Corp Worcester Pa 22	1 LeFevre Lane	F-R Machine Works Inc Electronic &
Transistor Components Co	New Rochelle NY 10-14-16	X-Ray Div
301 Oakwood Ave E Aurora NY 1-11-22 Trans-Tel Corp		
	Advance Industries Inc	26-12 Borough Pi woodside 77 N i
736 N Highland Ave Los Angeles 38 Calif 1	Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 1-13	26-12 Borough Pl Woodside 77 NY Gates Radio Co
Transval Eng'g Co	Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 1-13 Airmec Ltd High Wycombe	Gates Radio Co
10401 W Jefferson Rlvd	Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 1-13 Airmec Ltd High Wycombe Buckinghamshire England 16	Gates Radio Co 123 Hampshire St Quincy III General Precision Lab Inc
10401 W Jefferson Blvd Culver City Calif 7-11-16-20-22	Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 1-13 Airmec Ltd High Wycombe Buckinghamshire England 16 Airtron Inc	Gates Radio Co 123 Hampshire St Quincy III General Precision Lab Inc 63 Bedford Rd Pleasantville NY 2
Culver City Calif 7-11-16-20-22	Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 1-13 Airmec Ltd High Wycombe Buckinghamshire England 16 Airtron Inc 1101 W Elizabeth Ave Linden NJ 2-3	Gates Radio Co 123 Hampshire St Quincy Ill General Precision Lab Inc 63 Bedford Rd Pleasantville NY General Radio Co
Culver City Calif 7-11-16-20-22 Transvision Inc	Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass Airmec Ltd High Wycombe Buckinghamshire England Airtron Inc 1101 W Elizabeth Ave Linden NJ Alfred Electronics	Gates Radio Co 123 Hampshire St Quincy III 124 General Precision Lab Inc 63 Bedford Rd Pleasantville NY 125 General Radio Co 1275 Massachusetts Ave
Culver City Calif 7-11-16-20-22	Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass Airmee Ltd High Wycombe Buckinghamshire England Airtron Inc 1101 W Elizabeth Ave Linden NJ 2-3 Alfred Electronics 897 Commercial St Palo Alto Calif 9	Gates Radio Co 123 Hampshire St Quincy III General Precision Lab Inc 63 Bedford Rd Pleasantville NY General Radio Co 275 Massachusetts Ave Cambridge 39 Mass 3-1
Culver City Calif 7-11-16-20-22 Transvision Inc 460 North Ave New Rochelle NY 5	Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass Airmec Ltd High Wycombe Buckinghamshire England Airtron Inc 1101 W Elizabeth Ave Linden NJ 2-3 Alfred Electronics 897 Commercial St Palo Alto Calif Ameco	Gates Radio Co 123 Hampshire St Quincy Ill General Precision Lab Inc 63 Bedford Rd Pleasantville NY General Radio Co 275 Massachusetts Ave Cambridge 39 Mass G & M Equipment Co
Culver City Calif 7-11-16-20-22 Transvision Inc 460 North Ave New Rochelle NY 5 Trott Electronics Inc	Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass Airmec Ltd High Wycombe Buckinghamshire England Airtron Inc 1101 W Elizabeth Ave Linden NJ 2-3 Alfred Electronics 897 Commercial St Palo Alto Calif Ameco 2949 W Osborn Rd Phoenix Ariz 1-16	Gates Radio Co 123 Hampshire St Quincy III General Precision Lab Inc 63 Bedford Rd Pleasantville NY General Radio Co 275 Massachusetts Ave Cambridge 39 Mass G & M Equipment Co 7315 Varna Ave N Hollywood Calif
Culver City Calif 7-11-16-20-22 Transvision Inc 460 North Ave New Rochelle NY 5 Trott Electronics Inc 412 Smith St Rochester 6 NY 1 Trutone Electronics Inc	Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass Airmec Ltd High Wycombe Buckinghamshire England Airtron Inc 1101 W Elizabeth Ave Linden NJ 2-3 Alfred Electronics 897 Commercial St Palo Alto Calif Ameco 2949 W Osborn Rd Phoenix Ariz 1-16 Amerae Inc	Gates Radio Co 123 Hampshire St Quincy Ill General Precision Lab Inc 63 Bedford Rd Pleasantville NY General Radio Co 275 Massachusetts Ave Cambridge 39 Mass G & M Equipment Co 7315 Varna Ave N Hollywood Calif Goodyear Aircraft Corp
Culver City Calif 7-11-16-20-22 Transvision Inc 460 North Ave New Rochelle NY 5 Trott Electronics Inc 412 Smith St Rochester 6 NY 1	Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass Airmec Ltd High Wycombe Buckinghamshire England Airtron Inc 1101 W Elizabeth Ave Linden NJ 2-3 Alfred Electronics 897 Commercial St Palo Alto Calif Ameco 2949 W Osborn Rd Phoenix Ariz 1-16 Amerao Inc 116 Topsfield Rd	Gates Radio Co 123 Hampshire St Quincy III General Precision Lab Inc 63 Bedford Rd Pleasantville NY 2 General Radio Co 275 Massachusetts Ave Cambridge 39 Mass 3-1 G & M Equipment Co 7315 Varna Ave N Hollywood Calif Goodyear Aircraft Corp 1210 Massillon Rd Akron 15 Ohio 7-13-14-1
Culver City Calif 7-11-16-20-22 Transvision Inc 460 North Ave New Rochelle NY 5 Trott Electronics Inc 412 Smith St Rochester 6 NY 1 Trutone Electronics Inc 812 N Highland Ave Los Angeles 38 Calif 1-14 Ultradyne Eng'g Labs	Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 1-13 Airmec Ltd High Wycombe Buckinghamshire England 16 Airtron Inc 1101 W Elizabeth Ave Linden NJ 2-3 Alfred Electronics 897 Commercial St Palo Alto Calif 9 Ameco 2949 W Osborn Rd Phoenix Ariz 1-16 Amerac Inc 116 Topsfield Rd Wenham Mass 8-9-13-14-16	Gates Radio Co 123 Hampshire St Quincy III General Precision Lab Inc 63 Bedford Rd Pleasantville NY 2 General Radio Co 275 Massachusetts Ave Cambridge 39 Mass G & M Equipment Co 7315 Varna Ave N Hollywood Calif Goodyear Aircraft Corp 1210 Massillon Rd Akron 15 Ohio 7-13-14-1 Grem Eng'g-Co
Culver City Calif 7-11-16-20-22  Transvision Inc 460 North Ave New Rochelle NY 5  Trott Electronics Inc 412 Smith St Rochester 6 NY 1  Trutone Electronics Inc 812 N Highland Ave Los Angeles 38 Calif 1-14  Ultradyne Eng'g Labs PO Box 3308 Albuquerque New Mex 17	Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 1-13 Airmec Ltd High Wycombe Buckinghamshire England 16 Airtron Inc 1101 W Elizabeth Ave Linden NJ 2-3 Alfred Electronics 897 Commercial St Palo Alto Calif 9 Ameco 2949 W Osborn Rd Phoenix Ariz 1-16 Amerac Inc 116 Topsfield Rd Wenham Mass 8-9-13-14-16 American Communications Corp	Gates Radio Co 123 Hampshire St Quincy Ill General Precision Lab Inc 63 Bedford Rd Pleasantville NY 2 General Radio Co 275 Massachusetts Ave Cambridge 39 Mass 3-1 G & M Equipment Co 7315 Varna Ave N Hollywood Calif Goodyear Aircraft Corp 1210 Massillon Rd Akron 15 Ohio 7-13-14-1 Grem Eng'g-Co 488 1 St Brooklyn 15 NY
Culver City Calif 7-11-16-20-22  Transvision Inc 460 North Ave New Rochelle NY 5  Trott Electronics Inc 412 Smith St Rochester 6 NY 1  Trutone Electronics Inc 812 N Highland Ave Los Angeles 38 Calif 1-14  Ultradyne Eng'g Labs PO Box 3308 Albuquerque New Mex 17  United Control Corp	Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 1-13 Airmec Ltd High Wycombe Buckinghamshire England 16 Airtron Inc 1101 W Elizabeth Ave Linden NJ 2-3 Alfred Electronics 897 Commercial St Palo Alto Calif 9 Ameco 2949 W Osborn Rd Phoenix Ariz 1-16 Amerac Inc 116 Topsfield Rd Wenham Mass 8-9-13-14-16 American Communications Corp 280 Broadway New York 17 NY 1-2	Gates Radio Co 123 Hampshire St Quincy III General Precision Lab Inc 63 Bedford Rd Pleasantville NY 2 General Radio Co 275 Massachusetts Ave Cambridge 39 Mass 3-1 G & M Equipment Co 7315 Varna Ave N Hollywood Calif Goodyear Aircraft Corp 1210 Massillon Rd Akron 15 Ohio 7-13-14-1 Grem Eng'g-Co 488 1 St Brooklyn 15 NY Hallamore Electronics Co
Culver City Calif 7-11-16-20-22 Transvision Inc 460 North Ave New Rochelle NY 5 Trott Electronics Inc 412 Smith St Rochester 6 NY 1 Trutone Electronics Inc 812 N Highland Ave Los Angeles 38 Calif 1-14 Ultradyne Eng'g Labs PO Box 3308 Albuquerque New Mex 17 United Control Corp 4540 Union Bay Pl Seattle 5 Wash 11-16-22	Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 1-13 Airmec Ltd High Wycombe Buckinghamshire England 16 Airtron Inc 1101 W Elizabeth Ave Linden NJ 2-3 Alfred Electronics 897 Commercial St Palo Alto Calif 9 Ameco 2949 W Osborn Rd Phoenix Ariz 1-16 Amerac Inc 116 Topsfield Rd Wenham Mass 8-9-13-14-16 American Communications Corp 280 Broadway New York 17 NY 1-2 American Electronic Laboratories	Gates Radio Co 123 Hampshire St Quincy III General Precision Lab Inc 63 Bedford Rd Pleasantville NY 2 General Radio Co 275 Massachusetts Ave Cambridge 39 Mass 3-1 G & M Equipment Co 7315 Varna Ave N Hollywood Calif Goodyear Aircraft Corp 1210 Massillon Rd Akron 15 Ohio 7-13-14-1 Grem Eng'g-Co 488 1 St Brooklyn 15 NY Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif
Culver City Calif	Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 1-13 Airmec Ltd High Wycombe Buckinghamshire England 16 Airtron Inc 1101 W Elizabeth Ave Linden NJ 2-3 Alfred Electronics 897 Commercial St Palo Alto Calif 9 Ameco 2949 W Osborn Rd Phoenix Ariz 1-16 Amerac Inc 116 Topsfield Rd Wenham Mass 8-9-13-14-16 American Communications Corp 280 Broadway New York 17 NY 1-2 American Electronic Laboratories 121 N 7th St Philadelphia 6 Pa 3	Gates Radio Co 123 Hampshire St Quincy III General Precision Lab Inc 63 Bedford Rd Pleasantville NY 2 General Radio Co 275 Massachusetts Ave Cambridge 39 Mass 3-1 G & M Equipment Co 7315 Varna Ave N Hollywood Calif Goodyear Aircraft Corp 1210 Massillon Rd Akron 15 Ohio 7-13-14-1 Grem Eng'g-Co 488 1 St Brooklyn 15 NY Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif Hallicrafters Co
Culver City Calif 7-11-16-20-22 Transvision Inc 460 North Ave New Rochelle NY 5 Trott Electronics Inc 412 Smith St Rochester 6 NY 1 Trutone Electronics Inc 812 N Highland Ave Los Angeles 38 Calif 1-14 Ultradyne Eng's Labs PO Box 3308 Albuquerque New Mex 17 United Control Corp 4540 Union Bay Pl Seattle 5 Wash 11-16-22 United Electrodynamics 1200 S Marengo Ave Pasadena Calif 11	Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 1-13 Airmec Ltd High Wycombe Buckinghamshire England 16 Airtron Inc 1101 W Elizabeth Ave Linden NJ 2-3 Alfred Electronics 897 Commercial St Palo Alto Calif 9 Ameco 2949 W Osborn Rd Phoenix Ariz 1-16 Amerac Inc 116 Topsfield Rd Wenham Mass 8-9-13-14-16 American Communications Corp 280 Broadway New York 17 NY 1-2 American Electronic Laboratories 121 N 7th St Philadelphia 6 Pa 3 American Machine & Foundry Co	Gates Radio Co 123 Hampshire St Quincy Ill General Precision Lab Inc 63 Bedford Rd Pleasantville NY General Radio Co 275 Massachusetts Ave Cambridge 39 Mass 3-1 G & M Equipment Co 7315 Varna Ave N Hollywood Calif Goodyear Aircraft Corp 1210 Massillon Rd Akron 15 Ohio 7-13-14-1 Grem Eng'g Co 488 1 St Brooklyn 15 NY Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif Hallicrafters Co 4401 W 5 Ave Chicago 24 Ill 6-14-1
Culver City Calif 7-11-16-20-22  Transvision Inc 460 North Ave New Rochelle NY 5  Trott Electronics Inc 412 Smith St Rochester 6 NY 1  Trutone Electronics Inc 812 N Highland Ave Los Angeles 38 Calif 1-14  Ultradyne Eng'g Labs PO Box 3308 Albuquerque New Mex 17  United Control Corp 4540 Union Bay PI Seattle 5 Wash 11-16-22  United Electrodynamics 1200 S Marengo Ave Pasadena Calif 11  Universal Atomics Corp	Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 1-13 Airmec Ltd High Wycombe Buckinghamshire England 16 Airtron Inc 1101 W Elizabeth Ave Linden NJ 2-3 Alfred Electronics 897 Commercial St Palo Alto Calif 9 Ameco 2949 W Osborn Rd Phoenix Ariz 1-16 Amerao Inc 116 Topsfield Rd Wenham Mass 8-9-13-14-16 American Communications Corp 280 Broadway New York 17 NY 1-2 American Electronic Laboratories 121 N 7th St Philadelphia 6 Pa American Machine & Foundry Co Defense Products Group 1101 N Royal St Alexandria Va 1-13-10	Gates Radio Co 123 Hampshire St Quincy Ill General Precision Lab Inc 63 Bedford Rd Pleasantville NY 2 General Radio Co 275 Massachusetts Ave Cambridge 39 Mass 3-1 G & M Equipment Co 7315 Varna Ave N Hollywood Calif Goodyear Aircraft Corp 1210 Massillon Rd Akron 15 Ohio 7-13-14-1 Grem Eng'g Co 488 1 St Brooklyn 15 NY Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif Hall-Scott Inc Electronics Div 6-14-1 Hall-Scott Inc Electronics Div
Culver City Calif   7-11-16-20-22     Transvision Inc	Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 1-13 Airmec Ltd High Wycombe Buckinghamshire England 16 Airtron Inc 1101 W Elizabeth Ave Linden NJ 2-3 Alfred Electronics 897 Commercial St Palo Alto Calif 9 Ameco 2949 W Osborn Rd Phoenix Ariz 1-16 Amerao Inc 116 Topsfield Rd Wenham Mass 8-9-13-14-16 American Communications Corp 280 Broadway New York 17 NY 1-2 American Electronic Laboratories 121 N 7th St Philadelphia 6 Pa American Machine & Foundry Co Defense Products Group 1101 N Royal St Alexandria Va 1-13-10	Gates Radio Co 123 Hampshire St Quincy Ill General Precision Lab Inc 63 Bedford Rd Pleasantville NY 2 General Radio Co 275 Massachusetts Ave Cambridge 39 Mass 3-1 G & M Equipment Co 7315 Varna Ave N Hollywood Calif Goodyear Aircraft Corp 1210 Massillon Rd Akron 15 Ohio 7-13-14-1 Grem Eng'g-Co 488 1 St Brooklyn 15 NY Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif Halli-Tafters Co 4401 W 5 Ave Chicago 24 Ill Hall-Scott Inc Electronics Div 2950 N Ontario St Burbank Calif
Culver City Calif 7-11-16-20-22 Transvision Inc 460 North Ave New Rochelle NY 5 Trott Electronics Inc 412 Smith St Rochester 6 NY 1 Trutone Electronics Inc 812 N Highland Ave Los Angeles 38 Calif 1-14 Ultradyne Eng'g Labs PO Box 3308 Albuquerque New Mex 17 United Control Corp 4540 Union Bay Pl Seattle 5 Wash 11-16-22 United Electrodynamics 1200 S Marengo Ave Pasadena Calif 11 Universal Atomics Corp 50 Bond St Westbury LI NY 1-22 Univox Corp	Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 1-13 Airmec Ltd High Wycombe Buckinghamshire England 16 Airtron Inc 1101 W Elizabeth Ave Linden NJ 2-3 Alfred Electronics 897 Commercial St Palo Alto Calif 9 Ameco 2949 W Osborn Rd Phoenix Ariz 1-16 Amerao Inc 116 Topsfield Rd Wenham Mass 8-9-13-14-16 American Communications Corp 280 Broadway New York 17 NY 1-2 American Electronic Laboratories 121 N 7th St Philadelphia 6 Pa 3 American Machine & Foundry Co Defense Products Group 1101 N Royal St Alexandria Va 1-13-10 American Mica Insulation Co 235 Parker Ave Manasquan NJ 1	Gates Radio Co 123 Hampshire St Quincy Ill General Precision Lab Inc 63 Bedford Rd Pleasantville NY 2 General Radio Co 275 Massachusetts Ave Cambridge 39 Mass 3-1 G & M Equipment Co 7315 Varna Ave N Hollywood Calif Goodyear Aircraft Corp 1210 Massillon Rd Akron 15 Ohio 7-13-14-1 Grem Eng'g Co 488 1 St Brooklyn 15 NY Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif Hall-Scott Inc Electronics Div 6-14-1 Hall-Scott Inc Electronics Div
Culver City Calif   7-11-16-20-22     Transvision Inc	Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 1-13 Airmec Ltd High Wycombe Buckinghamshire England 16 Airtron Inc 1101 W Elizabeth Ave Linden NJ 2-3 Alfred Electronics 897 Commercial St Palo Alto Calif 9 Ameco 2949 W Osborn Rd Phoenix Ariz 1-16 Amerac Inc 116 Topsfield Rd Wenham Mass 8-9-13-14-16 American Communications Corp 280 Broadway New York 17 NY 1-2 American Electronic Laboratories 121 N 7th St Philadelphia 6 Pa 3 American Machine & Foundry Co Defense Products Group 1101 N Royal St Alexandria Va 1-13-10 American Mica Insulation Co	Gates Radio Co 123 Hampshire St Quincy Ill General Precision Lab Inc 63 Bedford Rd Pleasantville NY 2 General Radio Co 275 Massachusetts Ave Cambridge 39 Mass 3-3 G & M Equipment Co 7315 Varna Ave N Hollywood Calif Goodyear Aircraft Corp 1210 Massillon Rd Akron 15 Ohio 7-13-14-1 Grem Eng'g Co 488 1 St Brooklyn 15 NY Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif Hallcrafters Co 4401 W 5 Ave Chicago 24 Ill 6-14-1 Hall-Scott Inc Electronics Div 2950 N Ontario St Burbank Calif Hancock Electronics Corp

	Chanad I aka Ina	Advanced Electronics Inc
Industrial Research Labs Div Aeronca	Shepard Labs Inc 450 Morris Ave Summit NJ 1-2	94 Silas Deane Hwy Rocky Hill 9 Conn 30
Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md 9	Skiatron Electronics & TV Corp	Advance Industries Inc 640 Memorial Dr 1-2-4-5-6-9
Industrial TV Inc	180 Varick St New York 14 NY 13	640 Memorial Dr 1-2-4-5-6-9 Cambridge 39 Mass 11-21-22-28
369 Lexington Ave Clifton NJ 1-2	Solartron Electronic Group Ltd Queens Rd Thames Ditton Surrey England 16	Advance Instrument Corp
Instruments for Industry Inc . 150 Glen Cove Rd Mineola NY 3-16	Spectralab Instruments	1709 F St Belmar NJ 5-7-9-15-17-24-27-28
International Research Associates	404 N Halstead Ave Pasadena Calif 9-14 Spencer-Kennedy Labs Inc	Aero Electronics Co 1512 N Wells St Chicago 10 Ill 9-24-27-28
2221 Warwick Ave Santa Monica Calif 3	1320 Soldiers Field Rd	AiResearch Mfg Co Div Garrett Corp
International Telemeter Corp 2000 Stoner Ave	Boston 35 Mass 2-8-11-14-16	9851 Sepulveda Blvd Los Angeles 45 Calif 4-15-24-28
Los Angeles 25 Calif 1-2-8-16	Sperry Gyroscope Co Div Sperry Rand Corp Great Neck NY 6-9	Airmec Ltd
Jerrold Electronics Corp 23 & Chestnut Sts 1-2-4-8	Standard Electronics Div Radio Eng'g Labs	High Wycombe
Philadelphia 3 Pa 10-14-16	30th & Borden Sts	Buckinghamshire England 7-18 Airpax Products Co
Johnson Co E F	Long Island City NY 6-10-14-15 Stewart-Warner Electronics Div	Middle River Baltimore 20 Md 7-15
Waseca Minn 14-15-16 J-V-M Eng'g Co	1300 N Kostner Ave	Airtron Inc
4633 S Lawndale Ave	Chicago 51 Ill 1-3-6-12-16	1101 W Elizabeth Ave Linden NJ 15 Airtronix Development Corp
Lyons III 4-6-8-9-10-13-14	Stromberg-Carlson Div General Dynamics Corp	4902 Church Ave Brooklyn NY 5-28
Kahn Research Labs 22 Pine St Freeport NY 15	100 Carlson Rd Rochester 3 NY 2	Alcar Instruments Inc 17 Industrial Ave Little Ferry NJ 29
Kaiser Aircraft & Electronics Corp	Symphony Electronics Corp 925 S Western Ave Los Angeles 6 Calif 1	17 Industrial Ave Little Ferry NJ 29 Alden Electronic & Impulse Recording
Toledo Electronics Div P O Box 437 Toledo Ohio 3-8-9-10-13-14-15	Tektronix Inc	Equip Co
Lambda-Pacific Eng'g Inc	P O Box 831 Portland 7 Ore 16	P O Box 125 Westboro Mass 6-12-14-19 Allegany Instrument Co
14725 Arminta St Van Nuys Calif 9	Telechrome Mfg Corp 28 Ranick Dr Amityville LI NY 3-14-15-16	1091 Wills Mountain
Land-Air Inc Instrument & Electronic Div 2133 Adams Ave	Telephonics Corp	Cumberland Md 7-19-28
San Leandro Calif 3-7-10-12-13-14-15-16	Park Ave Huntington LI NY 3-4-15	Alpha Instrument Co 43 Hempstead St New London Conn 31
Langevin Mfg Corp	Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ 2	Altec Lansing Corp
47-37 Austell Pl Long Island City 1 NY 3-16	Trans-Tel Corp	1515 S Manchester Ave Anaheim Calif 3-20
Lear Inc	736 N Highland Ave Los Angeles 38 Calif 1-2	Alto Scientific Co 855 Commercial St Palo Alto Calif 9
3171 S Bundy Drive Santa Monica Calif 1	Uniwave Inc 2 Marine St Farmingdale NY 2-3-8-9-14-16	Ameco
Lel Inc 380 Oak St	Varian Associates	2949 W Osborn Rd Phoenix Ariz 31
Copiague NY 1-2-3-4-13-14-15-16	611 Hansen Way Palo Alto Calif 6 Virginia Electronics Co	Amerac Inc 116 Topsfield Rd Wenham Mass 22
Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-3-5-14	River Rd & B & O R R	American Communications Corp
Levinthal Electronic Products Inc	Washington 16 D C 3-14	280 Broadway New York 17 NY 20 American Electronics Inc Instrument Div
3180 Hanover St Palo Alto Calif 6-9-13	Waldorf Instrument Co Div F C Huyck & Sons	9503 W Jefferson Blvd
Lynmar Engineers Inc 1432 N Carlisle St	Park Ave Huntington Station NY 1-8	Culver City Calif 24-27
Philadelphia 21 Pa 3-14-16	Waveline Inc Passaic Ave Caldwell NJ	American Electronic Laboratories 121 N 7 St 7-9-16
Mack Electronics Div Inc Sub Mack	Passaic Ave Caldwell NJ Wave Particle Corp	Philadelphia 6 Pa 20-25-28-81
Trucks Inc 1120 S 2 St Plainfield NJ 3-13-14	P O Box 252 Menlo Park Calif 16	American Gyro Corp 3030 Nebraska Ave Santa Monica Calif 15
Madison-Fielding Corp	Westbury Electronics Inc 300 Shames Dr 1-2-3-4-8-10	American Machine & Foundry Co
863 Madison St Brooklyn 21 NY 8	300 Shames Dr 1-2-3-4-8-10 Westbury NY 12-13-14-16	Electronics Div
Maxson Corp W L 475 10 Ave New York 18 NY 9-13	Westinghouse Electric Corp	1085 Commonwealth Ave Boston 15 Mass 7-9-21
Maxson Instruments Div W L Maxson Corp	P O Box 868 Pittsburgh 30 Pa 13 Wheeler Insulated Wire Co	Boston 15 Mass 7-9-21 American Machine & Foundry Co
47-37 Austell Place Long Island City 1 NY 8	150 E Aurora St Waterbury 20 Conn 2	Defense Products Group
Millivac Instrument Corp	White Electron Devices Inc Roger	1101 N Royal St Alexandria Va 2-5-9-20-21-28
2315 2 Ave Carman Schenectady NY 12	92 4 Ave Haskell NY 9-16	
Model Eng'g & Mfg Inc	02 1 1146 1140mcm	American Research & Mfg Corp 920 Halpine Ave 5-7-15
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 3 Narda Corn	3—AMPLIFIERS, SPECIAL	American Research & Mfg Corp 920 Halpine Ave Rockville Md 5-7-15 24-25-28
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 3 Narda Corp 160 Herricks Rd Mineola NY 9	02 1 1146 1140mcm	American Research & Mfg Corp 920 Halpine Ave 5-7-15
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 3 Narda Corp 160 Herricks Rd Mineola NY 9 National Company Inc	3—AMPLIFIERS, SPECIAL PURPOSE	American Research & Mfg Corp         5-7-15           920 Halpine Ave         5-7-15           Rockville Md         24-25-28           Ampex Corp         934 Charter St Redwood City Calif         6           Analogue Controls Inc         6
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 3 Narda Corp 160 Herricks Rd Mineola NY National Company Inc 61 Sherman St Malden 48 Mass Nevada Air Products Co	3—AMPLIFIERS, SPECIAL PURPOSE Amplifiers, bolometer	American Research & Mfg Corp 920 Halpine Ave 5-7-15 Rockville Md 24-25-28 Ampex Corp 934 Charter St Redwood City Calif 6 Analogue Controls Inc 39 Roselle St
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 3 Narda Corp 160 Herricks Rd Mineola NY National Company Inc 61 Sherman St Malden 48 Mass Nevada Air Products Co P O Box 2472 Reno Nev 13	3—AMPLIFIERS, SPECIAL PURPOSE  Amplifiers, bolometer	American Research & Mfg Corp 920 Halpine Ave 5-7-15 Rockville Md 24-25-28 Ampex Corp 934 Charter St Redwood City Calif 6 Analogue Controls Inc 39 Roselle St Mineola NY Anchor Specialty Mfg Co
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 3 Narda Corp 160 Herricks Rd Mineola NY National Company Inc 61 Sherman St Malden 48 Mass Nevada Air Products Co P O Box 2472 Reno Nev 13 Norden-Ketay Corp	3—AMPLIFIERS, SPECIAL PURPOSE  Amplifiers, bolometer	American Research & Mfr Corp 920 Halpine Ave 5-7-15 Rockville Md 24-25-28 Ampex Corp 934 Charter St Redwood City Calif 6 Analogue Controls Inc 39 Roselle St Mineola NY 4-6-7-13-24-27 Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 5-9
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 3 Narda Corp 160 Herricks Rd Mineola NY 9 National Company Inc 61 Sherman St Malden 48 Mass Nevada Air Products Co P O Box 2472 Reno Nev 13 Norden-Ketay Corp Commerce Rd Stamford Conn 3-13 Omega Instrument Co	3—AMPLIFIERS, SPECIAL PURPOSE  Amplifiers, bolometer	American Research & Mfg Corp 920 Halpine Ave 5-7-15 Rockville Md 24-25-28 Ampex Corp 934 Charter St Redwood City Calif 6 Analogue Controls Inc 39 Roselle St Mineola NY 4-6-7-13-24-27 Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 5-9 Anderton Electronic Lab
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 3 Narda Corp 160 Herricks Rd Mineola NY National Company Inc 61 Sherman St Malden 48 Mass 6 Nevada Air Products Co P O Box 2472 Reno Nev Norden-Ketay Corp Commerce Rd Stamford Conn Omega Instrument Co 103 E Altadena Dr Altadena Calif 16	3—AMPLIFIERS, SPECIAL PURPOSE  Amplifiers, bolometer	American Research & Mfg Corp 920 Halpine Ave 5-7-15 Rockville Md 24-25-28 Ampex Corp 934 Charter St Redwood City Calif 6 Analogue Controls Inc 39 Roselle St Mineola NY 4-6-7-13-24-27 Anchor Specialty Mfg Co Hollister Rd Teterboro NJ Anderton Electronic Lab 129 E 1800 S St Bountiful Utah 2-3 Ansley Mfg Co Arthur
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 3 Narda Corp 160 Herricks Rd Mineola NY National Company Inc 61 Sherman St Malden 48 Mass 6 Nevada Air Products Co P O Box 2472 Reno Nev Norden-Ketay Corp Commerce Rd Stamford Conn Omega Instrument Co 103 E Altadena Dr Altadena Calif Otis Elevator Co Electronic Div	3—AMPLIFIERS, SPECIAL PURPOSE  Amplifiers, bolometer	American Research & Mfg Corp  920 Halpine Ave 5-7-15 Rockville Md 24-25-28  Ampex Corp  934 Charter St Redwood City Calif 6  Analogue Controls Inc  39 Roselle St Mineola NY 4-6-7-13-24-27  Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 5-9  Anderton Electronic Lab  129 E 1860 S St Bountiful Utah 2-3  Ansley Mfg Co Arthur New Hope Pa 21
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 3 Narda Corp 160 Herricks Rd Mineola NY National Company Inc 61 Sherman St Malden 48 Mass 6 Nevada Air Products Co P O Box 2472 Reno Nev 13 Norden-Ketay Corp Commerce Rd Stamford Conn Omega Instrument Co 103 E Altadena Dr Altadena Calif Otis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY 9-13-14-15	3—AMPLIFIERS, SPECIAL PURPOSE  Amplifiers, bolometer 1 Amplifiers, cothode followers 2 Amplifiers, compressor 3 Amplifiers, computer 4 Amplifiers, control 5 Amplifiers, data recording 6 Amplifiers, DC 7 Amplifiers, decade 8	American Research & Mfg Corp 920 Halpine Ave 5-7-15 Rockville Md 24-25-28 Ampex Corp 934 Charter St Redwood City Calif 6 Analogue Controls Inc 39 Roselle St Mineola NY 4-6-7-13-24-27 Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 5-9 Anderton Electronic Lab 129 E 1860 S St Bountiful Utah 2-3 Ansley Mfg Co Arthur New Hope Pa Antlab Inc
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 3 Narda Corp 160 Herricks Rd Mineola NY 9 National Company Inc 61 Sherman St Malden 48 Mass 6 Nevada Air Products Co P O Box 2472 Reno Nev 13 Norden-Ketay Corp Commerce Rd Stamford Conn 3-13 Omega Instrument Co 103 E Altadena Dr Altadena Calif 0tis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY 9-13-14-15 Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash 9-15	3—AMPLIFIERS, SPECIAL PURPOSE  Amplifiers, bolometer 1 Amplifiers, cathode followers 2 Amplifiers, compressor 3 Amplifiers, computer 4 Amplifiers, control 5 Amplifiers, data recording 6 Amplifiers, DC 7 Amplifiers, decade 8 Amplifiers, development 9	American Research & Mfg Corp 920 Halpine Ave 5-7-15 Rockville Md 24-25-28 Ampex Corp 934 Charter St Redwood City Calif 6 Analogue Controls Inc 39 Roselle St Mineola NY 4-6-7-13-24-27 Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 5-9 Anderton Electronic Lab 129 E 1800 S St Bountiful Utah 2-8 Ansley Mfg Co Arthur New Hope Pa 21 Antlab Inc 4950 N High St Columbus 14 Ohio 1 Applewate & Co C J
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 3 Narda Corp 160 Herricks Rd Mineola NY National Company Inc 61 Sherman St Malden 48 Mass 6 Nevada Air Products Co P O Box 2472 Reno Nev 13 Norden-Ketay Corp Commerce Rd Stamford Conn Omega Instrument Co 103 E Altadena Dr Altadena Calif Otis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY 9-13-14-15	3—AMPLIFIERS, SPECIAL PURPOSE  Amplifiers, bolometer 1 Amplifiers, cothode followers 2 Amplifiers, compressor 3 Amplifiers, computer 4 Amplifiers, control 5 Amplifiers, data recording 6 Amplifiers, DC 7 Amplifiers, decade 8 Amplifiers, development 9 Amplifiers, differential 10	American Research & Mfg Corp 920 Halpine Ave 5-7-15 Rockville Md 24-25-28  Ampex Corp 934 Charter St Redwood City Calif 6 Analogue Controls Inc 39 Roselle St Mineola NY 4-6-7-13-24-27  Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 5-9  Anderton Electronic Lab 129 E 1860 S St Bountiful Utah 2-8  Ansley Mfg Co Arthur New Hope Pa 21  Antlab Inc 4950 N High St Columbus 14 Ohio 1  Applegate & Co C J 1840 24 St Boulder Colo 31
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 3 Narda Corp 160 Herricks Rd Mineola NY 9 National Company Inc 61 Sherman St Malden 48 Mass 6 Nevada Air Products Co P O Box 2472 Reno Nev 13 Norden-Ketay Corp Commerce Rd Stamford Conn 3-13 Omega Instrument Co 103 E Altadena Dr Altadena Calif 16 Otis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY 9-13-14-15 Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 14 Polarad Electronics Corp	3—AMPLIFIERS, SPECIAL PURPOSE  Amplifiers, bolometer 1 Amplifiers, cathode followers 2 Amplifiers, compressor 3 Amplifiers, computer 4 Amplifiers, control 5 Amplifiers, data recording 6 Amplifiers, DC 7 Amplifiers, decade 8 Amplifiers, development 9	American Research & Mfg Corp 920 Halpine Ave 5-7-15 Rockville Md 24-25-28 Ampex Corp 934 Charter St Redwood City Calif 6 Analogue Controls Inc 39 Roselle St Mineola NY 4-6-7-13-24-27 Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 5-9 Anderton Electronic Lab 129 E 1800 S St Bountiful Utah 2-8 Ansley Mfg Co Arthur New Hope Pa 21 Antlab Inc 4950 N High St Columbus 14 Ohio 1 Applewate & Co C J
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 3 Narda Corp 160 Herricks Rd Mineola NY 9 National Company Inc 61 Sherman St Malden 48 Mass 6 Nevada Air Products Co P O Box 2472 Reno Nev 13 Norden-Ketay Corp Commerce Rd Stamford Conn 3-13 Omega Instrument Co 103 E Altadena Dr Altadena Calif 6 Cis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY 9-13-14-15 Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 14 Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Polytechnic Research & Development Co	3—AMPLIFIERS, SPECIAL PURPOSE  Amplifiers, bolometer 1 Amplifiers, cathode followers 2 Amplifiers, compressor 3 Amplifiers, computer 4 Amplifiers, control 5 Amplifiers, data recording 6 Amplifiers, decade 7 Amplifiers, decade 8 Amplifiers, development 9 Amplifiers, differential 10 Amplifiers, encapsulated 11 Amplifiers, facsimile 12	American Research & Mfg Corp  920 Halpine Ave 5-7-15 Rockville Md 24-25-28  Ampex Corp  934 Charter St Redwood City Calif 6  Analogue Controls Inc  39 Roselle St Mineola NY 4-6-7-13-24-27  Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 5-9  Anderton Electronic Lab  129 E 1860 S St Bountiful Utah 2-3  Ansley Mfg Co Arthur New Hope Pa 21  Antlab Inc  4950 N High St Columbus 14 Ohio 1  Applevate & Co C J  1840 24 St Boulder Colo 31  Applied Research Inc  163-07 Depot Rd Flushing 58 NY 31  Arnoux Corp
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 3 Narda Corp 160 Herricks Rd Mineola NY 9 National Company Inc 61 Sherman St Malden 48 Mass 6 Nevada Air Products Co P O Box 2472 Reno Nev 13 Norden-Ketay Corp Commerce Rd Stamford Conn 3-13 Omega Instrument Co 103 E Altadena Dr Altadena Calif 6 Otis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY 4002 Fruit Valley Rd Vancouver Wash Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 14 Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY 9	3—AMPLIFIERS, SPECIAL PURPOSE  Amplifiers, bolometer 1 Amplifiers, cothode followers 2 Amplifiers, compressor 3 Amplifiers, computer 4 Amplifiers, control 5 Amplifiers, data recording 6 Amplifiers, DC 7 Amplifiers, decade 8 Amplifiers, development 9 Amplifiers, differential 10 Amplifiers, differential 10 Amplifiers, facsimile 11 Amplifiers, facsimile 12 Amplifiers, intergrating 13	American Research & Mfg Corp  920 Halpine Ave 5-7-15 Rockville Md 24-25-28  Ampex Corp  934 Charter St Redwood City Calif 6  Analogue Controls Inc  39 Roselle St Mineola NY 4-6-7-13-24-27  Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 5-9  Anderton Electronic Lab  129 E 1860 S St Bountiful Utah 2-8  Ansley Mfg Co Arthur New Hope Pa 21  Antlab Inc  4950 N High St Columbus 14 Ohio 1  Applicate & Co C J  1840 24 St Boulder Colo 31  Applied Research Inc  163-07 Depot Rd Flushing 58 NY 31  Arnoux Corp  11924 W Washington Blvd
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind Narda Corp 160 Herricks Rd Mineola NY National Company Inc 61 Sherman St Malden 48 Mass 6 Nevada Air Products Co P O Box 2472 Reno Nev Norden-Ketay Corp Commerce Rd Stamford Conn 3-13 Omega Instrument Co 103 E Altadena Dr Altadena Calif Otis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY 9-13-14-15 Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 14 Polytechnic Research Scorp 43-20 34 St Long Island City 1 NY Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY 9 Polyteronic Research inc	3—AMPLIFIERS, SPECIAL PURPOSE  Amplifiers, bolometer 1 Amplifiers, cathode followers 2 Amplifiers, compressor 3 Amplifiers, computer 4 Amplifiers, control 5 Amplifiers, data recording 6 Amplifiers, decade 8 Amplifiers, decade 8 Amplifiers, development 9 Amplifiers, differential 10 Amplifiers, encapsulated 11 Amplifiers, facsimile 12 Amplifiers, intergrating 13 Amplifiers, logarithmic 14	American Research & Mfg Corp  920 Halpine Ave 5-7-15 Rockville Md 24-25-28  Ampex Corp  934 Charter St Redwood City Calif 6  Analogue Controls Inc  39 Roselle St Mineola NY 4-6-7-13-24-27  Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 5-9  Anderton Electronic Lab  129 E 1860 S St Bountiful Utah 2-3  Ansley Mfg Co Arthur New Hope Pa 21  Antlab Inc  4950 N High St Columbus 14 Ohio 1  Applecate & Co C J  1840 24 St Boulder Colo 31  Applied Research Inc  163-07 Depot Rd Flushing 58 NY 31  Arnoux Corp  11924 W Washington Blvd Los Angeles 66 Calif 6-7-15  Atlantic Research Corp
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind Narda Corp 160 Herricks Rd Mineola NY National Company Inc 61 Sherman St Malden 48 Mass Nevada Air Products Co P O Box 2472 Reno Nev Norden-Ketay Corp Commerce Rd Stamford Conn Omega Instrument Co 103 E Altadena Dr Altadena Calif Otis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY 9-13-14-15 Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 14 Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY Polytronic Research Inc 7660 Woodbury Dr Silver Spring Md Press Wireless Labs Inc	3—AMPLIFIERS, SPECIAL PURPOSE  Amplifiers, bolometer 1 Amplifiers, cathode followers 2 Amplifiers, compressor 3 Amplifiers, computer 4 Amplifiers, control 5 Amplifiers, data recording 6 Amplifiers, DC 7 Amplifiers, decade 8 Amplifiers, development 9 Amplifiers, differential 10 Amplifiers, encapsulated 11 Amplifiers, intergrating 12 Amplifiers, logarithmic 14 Amplifiers, magnetic 15	American Research & Mfg Corp  920 Halpine Ave 5-7-15 Rockville Md 24-25-28  Ampex Corp  934 Charter St Redwood City Calif 6  Analogue Controls Inc  39 Roselle St Mineola NY 4-6-7-13-24-27  Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 5-9  Anderton Electronic Lab  129 E 1860 S St Bountiful Utah 2-8  Ansley Mfg Co Arthur New Hope Pa 21  Antlab Inc  4950 N High St Columbus 14 Ohio 1  Applegate & Co C J  1840 24 St Boulder Colo 31  Applied Research Inc  163-07 Depot Rd Flushing 58 NY 31  Arnoux Corp  11924 W Washington Blvd Los Angeles 66 Calif 6-7-15  Atlantic Research Corp  901 N Columbus St
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind Narda Corp 160 Herricks Rd Mineola NY National Company Inc 61 Sherman St Malden 48 Mass 6 Nevada Air Products Co P O Box 2472 Reno Nev Norden-Ketay Corp Commerce Rd Stamford Conn 3-13 Omega Instrument Co 103 E Altadena Dr Altadena Calif Otis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY 9-13-14-15 Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 14 Polytechnic Research Scorp 43-20 34 St Long Island City 1 NY Polytechnic Research Enc 17660 Woodbury Dr Silver Spring Md Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass 5-14	3—AMPLIFIERS, SPECIAL PURPOSE  Amplifiers, bolometer 1 Amplifiers, cathode followers 2 Amplifiers, compressor 3 Amplifiers, computer 4 Amplifiers, control 5 Amplifiers, data recording 6 Amplifiers, DC 7 Amplifiers, decade 8 Amplifiers, development 9 Amplifiers, differential 10 Amplifiers, differential 10 Amplifiers, encapsulated 11 Amplifiers, facsimile 12 Amplifiers, intergrating 13 Amplifiers, logarithmic 14 Amplifiers, magnetic 15 Amplifiers, medical 16	American Research & Mfg Corp  920 Halpine Ave 5-7-15 Rockville Md 24-25-28  Ampex Corp  934 Charter St Redwood City Calif 6  Analogue Controls Inc  39 Roselle St Mineola NY 4-6-7-13-24-27  Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 5-9  Anderton Electronic Lab  129 E 1860 S St Bountiful Utah 2-8  Ansley Mfg Co Arthur New Hope Pa 21  Antlab Inc  4950 N High St Columbus 14 Ohio 1  Applegate & Co C J  1840 24 St Boulder Colo 31  Applied Research Inc  163-07 Depot Rd Flushing 58 NY 31  Arnoux Corp  11924 W Washington Blvd Los Angeles 66 Calif 6-7-15  Atlantic Research Corp  901 N Columbus St Alexandria Va 2-11-29-31  Atlas Eng'r Co
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind Narda Corp 160 Herricks Rd Mineola NY National Company Inc 61 Sherman St Malden 48 Mass 6 Nevada Air Products Co P O Box 2472 Reno Nev 13 Norden-Ketay Corp Commerce Rd Stamford Conn 3-13 Omega Instrument Co 103 E Altadena Dr Altadena Calif 6 Ctis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY 9-13-14-15 Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 14 Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY Polytronic Research Inc 7660 Woodbury Dr Silver Spring Md Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass 5-14 Production Research Corp 1-2-3-4-5-78-10	3—AMPLIFIERS, SPECIAL PURPOSE  Amplifiers, bolometer 1 Amplifiers, cathode followers 2 Amplifiers, compressor 3 Amplifiers, computer 4 Amplifiers, control 5 Amplifiers, data recording 6 Amplifiers, decade 8 Amplifiers, decade 8 Amplifiers, development 9 Amplifiers, differential 10 Amplifiers, encapsulated 11 Amplifiers, intergrating 12 Amplifiers, intergrating 13 Amplifiers, magnetic 14 Amplifiers, magnetic 15 Amplifiers, medical 16 Amplifiers, medical 16	American Research & Mfg Corp  920 Halpine Ave 5-7-15 Rockville Md 24-25-28  Ampex Corp  934 Charter St Redwood City Calif 6  Analogue Controls Inc  39 Roselle St Mineola NY 4-6-7-13-24-27  Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 5-9  Anderton Electronic Lab  129 E 1860 S St Bountiful Utah 2-8  Ansley Mfg Co Arthur New Hope Pa 21  Antlab Inc  4950 N High St Columbus 14 Ohio 1  Applecate & Co C J  1840 24 St Boulder Colo 31  Applied Research Inc  163-07 Depot Rd Flushing 58 NY 31  Arnoux Corp  11924 W Washington Blvd Los Angeles 66 Calif 6-7-15  Atlantic Research Corp  901 N Columbus St Alexandria Va 2-11-29-31  Atlas Eng'g Co  176 Blue Hill Ave Roxbury 19 Mass 7-15
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind Narda Corp 160 Herricks Rd Mineola NY National Company Inc 61 Sherman St Malden 48 Mass 6 Nevada Air Products Co P O Box 2472 Reno Nev Norden-Ketay Corp Commerce Rd Stamford Conn 3-13 Omega Instrument Co 103 E Altadena Dr Altadena Calif Otis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY 4002 Fruit Valley Rd Vancouver Wash Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 14 Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY 9 Polytronic Research Inc 7660 Woodbury Dr Silver Spring Md Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass 5-14 Production Research Corp 1-2-3-4-5-7-8-10 Thornwood NY Pre Telecommunications Ltd	3—AMPLIFIERS, SPECIAL PURPOSE  Amplifiers, bolometer 1 Amplifiers, cathode followers 2 Amplifiers, compressor 3 Amplifiers, computer 4 Amplifiers, control 5 Amplifiers, data recording 6 Amplifiers, DC 7 Amplifiers, decade 8 Amplifiers, decade 8 Amplifiers, development 9 Amplifiers, differential 10 Amplifiers, facsimile 12 Amplifiers, intergrating 13 Amplifiers, logarithmic 14 Amplifiers, magnetic 15 Amplifiers, medical 16 Amplifiers, mull 17 Amplifiers, oscilloscope 18	American Research & Mfg Corp  920 Halpine Ave 5-7-15 Rockville Md 24-25-28  Ampex Corp  934 Charter St Redwood City Calif 6  Analogue Controls Inc  39 Roselle St Mineola NY 4-6-7-13-24-27  Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 5-9  Anderton Electronic Lab  129 E 1860 S St Bountiful Utah 2-3  Ansley Mfg Co Arthur New Hope Pa 21  Antlab Inc  4950 N High St Columbus 14 Ohio 1  Applecate & Co C J  1840 24 St Boulder Colo 31  Applied Research Inc  163-07 Depot Rd Flushing 58 NY 31  Arnoux Corp  11924 W Washington Blvd Los Angeles 66 Calif 6-7-15  Atlantic Research Corp  901 N Columbus St  Alexandria Va 2-11-29-31  Atlas Eng'g Co  176 Blue Hill Ave Roxbury 19 Mass 7-15  Addio Instrument Co
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind Narda Corp 160 Herricks Rd Mineola NY National Company Inc 61 Sherman St Malden 48 Mass 6 Nevada Air Products Co P O Box 2472 Reno Nev 13 Norden-Ketay Corp Commerce Rd Stamford Conn 3-13 Omega Instrument Co 103 E Altadena Dr Altadena Calif 6 Cis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY 4002 Fruit Valley Rd Vancouver Wash Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY Polstrad Electronics Corp 43-20 34 St Long Island City 1 NY Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY Polytronic Research Inc 7660 Woodbury Dr Silver Spring Md Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass 5-14 Production Research Corp 1-2-3-4-5-7-8-10 Thornwood NY 11-12-13-14-15-16 Pye Telecommunications Ltd Newmarket Rd Cambridge England 9-16	3—AMPLIFIERS, SPECIAL PURPOSE  Amplifiers, bolometer 1 Amplifiers, cothode followers 2 Amplifiers, compressor 3 Amplifiers, computer 4 Amplifiers, control 5 Amplifiers, data recording 6 Amplifiers, decade 8 Amplifiers, decade 8 Amplifiers, development 9 Amplifiers, differential 10 Amplifiers, encapsulated 11 Amplifiers, intergrating 12 Amplifiers, intergrating 13 Amplifiers, intergrating 13 Amplifiers, magnetic 14 Amplifiers, medical 16 Amplifiers, medical 16 Amplifiers, oscilloscope 18 Amplifiers, photocell 19	American Research & Mfg Corp  920 Halpine Ave 5-7-15 Rockville Md 24-25-28  Ampex Corp  934 Charter St Redwood City Calif 6  Analogue Controls Inc  39 Roselle St Mineola NY 4-6-7-13-24-27  Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 5-9  Anderton Electronic Lab  129 E 1860 S St Bountiful Utah 2-3  Ansley Mfg Co Arthur New Hope Pa 21  Antlab Inc  4950 N High St Columbus 14 Ohio 1  Applecate & Co C J  1840 24 St Boulder Colo 31  Applied Research Inc  163-07 Depot Rd Flushing 58 NY 31  Arnoux Corp  11924 W Washington Blvd Los Angeles 66 Calif 6-7-15  Atlantic Research Corp  901 N Columbus St Alexandria Va 2-11-29-31  Atlas Eng'r Co  176 Blue Hill Ave Roxbury 19 Mass 7-15  Audio Instrument Co  133 W 14 St New York 11 NY 2-14  Autonetics Div North American Aviation
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind Narda Corp 160 Herricks Rd Mineola NY National Company Inc 61 Sherman St Malden 48 Mass 6 Nevada Air Products Co P O Box 2472 Reno Nev Norden-Ketay Corp Commerce Rd Stamford Conn 3-13 Omega Instrument Co 103 E Altadena Dr Altadena Calif Otis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY 9-13-14-15 Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 14 Polyrad Electronics Corp 43-20 34 St Long Island City 1 NY Polyrad Electronic Research & Development Co 202 Tillary St Brooklyn 1 NY Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY Polytechnic Research Inc 7660 Woodbury Dr Silver Spring Md Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass 5-14 Production Research Corp 1-2-3-4-5-7-8-10 Thornwood NY 11-12-13-14-15-16 Pye Telecommunications Ltd Newmarket Rd Cambridge England 9-16	3—AMPLIFIERS, SPECIAL PURPOSE  Amplifiers, bolometer 1 Amplifiers, cathode followers 2 Amplifiers, compressor 3 Amplifiers, computer 4 Amplifiers, control 5 Amplifiers, data recording 6 Amplifiers, decade 8 Amplifiers, decade 8 Amplifiers, development 9 Amplifiers, differential 10 Amplifiers, encapsulated 11 Amplifiers, facsimile 12 Amplifiers, intergrating 13 Amplifiers, logarithmic 14 Amplifiers, magnetic 15 Amplifiers, medical 16 Amplifiers, null 17 Amplifiers, oscilloscope 18 Amplifiers, photocell 19 Amplifiers, power 20	American Research & Mfg Corp  920 Halpine Ave 5-7-15 Rockville Md 24-25-28  Ampex Corp  934 Charter St Redwood City Calif 6  Analogue Controls Inc  39 Roselle St Mineola NY 4-6-7-13-24-27  Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 5-9  Anderton Electronic Lab  129 E 1860 S St Bountiful Utah 2-8  Ansley Mfg Co Arthur New Hope Pa 21  Antlab Inc  4950 N High St Columbus 14 Ohio 1  Applecate & Co C J  1840 24 St Boulder Colo 31  Applied Research Inc  163-07 Depot Rd Flushing 58 NY 31  Arnoux Corp  11924 W Washington Blvd Los Angeles 66 Calif 6-7-15  Atlantic Research Corp  901 N Columbus St Alexandria Va 2-11-29-31  Atlas Eng'g Co  176 Blue Hill Ave Roxbury 19 Mass 7-15  Audio Instrument Co  133 W 14 St New York 11 NY 2-14  Autonetics Div North American Aviation 9150 E Imperial Hwy Downey Calif 24
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind Narda Corp 160 Herricks Rd Mineola NY National Company Inc 61 Sherman St Malden 48 Mass 6 Nevada Air Products Co P O Box 2472 Reno Nev Norden-Ketay Corp Commerce Rd Stamford Conn 3-13 Omega Instrument Co 103 E Altadena Dr Altadena Calif Otis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY 4002 Fruit Valley Rd Vancouver Wash Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 14 Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY Polytechnic Research Inc 7660 Woodbury Dr Silver Spring Md Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass 5-14 Production Research Corp 1-2-3-4-5-7-8-10 Thornwood NY Pye Telecommunications Ltd Newmarket Rd Cambridge England 9-16 Radio Corp of America Commercial Electronic Products 1-2-4-9	3—AMPLIFIERS, SPECIAL PURPOSE  Amplifiers, bolometer 1 Amplifiers, cathode followers 2 Amplifiers, compressor 3 Amplifiers, computer 4 Amplifiers, control 5 Amplifiers, data recording 6 Amplifiers, decade 8 Amplifiers, development 9 Amplifiers, development 9 Amplifiers, encapsulated 10 Amplifiers, encapsulated 11 Amplifiers, intergrating 12 Amplifiers, intergrating 13 Amplifiers, intergrating 13 Amplifiers, magnetic 14 Amplifiers, medical 16 Amplifiers, medical 16 Amplifiers, medical 17 Amplifiers, null 17 Amplifiers, photocell 19 Amplifiers, photocell 19 Amplifiers, printed circuit 21	American Research & Mfg Corp  920 Halpine Av  Rockville Md  24-25-28  Ampex Corp  934 Charter St Redwood City Calif  Analogue Controls Inc  39 Roselle St  Mineola NY  Anchor Specialty Mfg Co  Hollister Rd Teterboro NJ  Anderton Electronic Lab  129 E 1860 S St Bountiful Utah  2-8  Ansley Mfg Co Arthur  New Hope Pa  Antlab Inc  4950 N High St Columbus 14 Ohio  Applierate & Co C J  1840 24 St Boulder Colo  Applied Research Inc  163-07 Depot Rd Flushing 58 NY  Arnoux Corp  11924 W Washington Blvd  Los Angeles 66 Calif  Atlantic Research Corp  901 N Columbus St  Alexandria Va  Atlas Eng'r Co  176 Blue Hill Ave Roxbury 19 Mass  7-15  Audio Instrument Co  133 W 14 St New York 11 NY  2-14  Autonetics Div North American Aviation  9150 E Imperial Hwy Downey Calif  24
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind Narda Corp 160 Herricks Rd Mineola NY National Company Inc 61 Sherman St Malden 48 Mass 6 Nevada Air Products Co P O Box 2472 Reno Nev Norden-Ketay Corp Commerce Rd Stamford Conn 3-13 Omega Instrument Co 103 E Altadena Dr Altadena Calif Otis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY 9-13-14-15 Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 14 Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY Polytechnic Research Enc 7660 Woodbury Dr Silver Spring Md Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass 5-14 Production Research Corp 1-2-3-4-5-7-8-10 Thornwood NY 11-12-13-14-15-16 Pye Telecommunications Ltd Newmarket Rd Cambridge England Radio Corp of America Commercial Electronic Products 1-2-4-0 Camden 2 NJ Ramo-Wooldridge Corp	3—AMPLIFIERS, SPECIAL PURPOSE  Amplifiers, bolometer 1 Amplifiers, cathode followers 2 Amplifiers, compressor 3 Amplifiers, computer 4 Amplifiers, control 5 Amplifiers, data recording 6 Amplifiers, DC 7 Amplifiers, decade 8 Amplifiers, decade 8 Amplifiers, decade 10 Amplifiers, encapsulated 11 Amplifiers, encapsulated 11 Amplifiers, intergrating 12 Amplifiers, intergrating 13 Amplifiers, intergrating 13 Amplifiers, magnetic 15 Amplifiers, medical 14 Amplifiers, medical 16 Amplifiers, null 17 Amplifiers, oscilloscope 18 Amplifiers, photocell 19 Amplifiers, power 20 Amplifiers, pulse 22	American Research & Mfg Corp  920 Halpine Ave 5-7-15 Rockville Md 24-25-28  Ampex Corp  934 Charter St Redwood City Calif 6  Analogue Controls Inc  39 Roselle St Mineola NY 4-6-7-13-24-27  Anchor Specialty Mfg Co Hollister Rd Teterboro NJ Anderton Electronic Lab  129 E 1860 S St Bountiful Utah 2-3  Ansley Mfg Co Arthur New Hope Pa 21  Antlab Inc 4950 N High St Columbus 14 Ohio 1  Applegate & Co C J 1840 24 St Boulder Colo 31  Applied Research Inc 163-07 Depot Rd Flushing 58 NY 31  Arnoux Corp 11924 W Washington Blvd Los Angeles 66 Calif 6-7-15  Atlantic Research Corp 901 N Columbus St Alexandria Va 2-11-29-31  Atlas Eng'g Co 176 Blue Hill Ave Roxbury 19 Mass 7-15  Audio Instrument Co 133 W 14 St New York 11 NY 2-14  Autonetics Div North American Aviation 9150 E Imperial Hwy Downey Calif 24  Autron Eng'g Inc 1254 W 6 St Los Angeles 17 Calif 5-9-19-21-24
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind Narda Corp 160 Herricks Rd Mineola NY National Company Inc 61 Sherman St Malden 48 Mass 6 Nevada Air Products Co P O Box 2472 Reno Nev Norden-Ketay Corp Commerce Rd Stamford Conn 3-13 Omega Instrument Co 103 E Altadena Dr Altadena Calif Otis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY 4002 Fruit Valley Rd Vancouver Wash Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 14 Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY 9 Polytechnic Research Inc 7660 Woodbury Dr Silver Spring Md Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass 5-14 Production Research Corp 1-2-3-4-5-7-8-10 Thornwood NY Pye Telecommunications Ltd Newmarket Rd Cambridge England Radio Corp of America Commercial Electronic Products 1-2-4-9 Camden 2 NJ Ramo-Wooldridge Corp 5730 Arbor Vitae St	3—AMPLIFIERS, SPECIAL PURPOSE  Amplifiers, bolometer 1 Amplifiers, cathode followers 2 Amplifiers, compressor 3 Amplifiers, computer 4 Amplifiers, control 5 Amplifiers, data recording 6 Amplifiers, DC 7 Amplifiers, decade 8 Amplifiers, development 9 Amplifiers, descade 10 Amplifiers, encapsulated 11 Amplifiers, facsimile 12 Amplifiers, intergrating 13 Amplifiers, intergrating 13 Amplifiers, magnetic 15 Amplifiers, magnetic 15 Amplifiers, medical 16 Amplifiers, medical 17 Amplifiers, oscilloscope 18 Amplifiers, photocell 19 Amplifiers, power 20 Amplifiers, pulse 22 Amplifiers, pulse 23	American Research & Mfg Corp  920 Halpine Ave 5-7-15 Rockville Md 24-25-28  Ampex Corp  934 Charter St Redwood City Calif 6  Analogue Controls Inc  39 Roselle St Mineola NY 4-6-7-13-24-27  Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 5-9  Anderton Electronic Lab  129 E 1800 S St Bountiful Utah 2-3  Ansley Mfg Co Arthur New Hope Pa 21  Antlab Inc  4950 N High St Columbus 14 Ohio 1  Applegate & Co C J  1840 24 St Boulder Colo 31  Applied Research Inc  163-07 Depot Rd Flushing 58 NY 31  Arnoux Corp  11924 W Washington Blvd  Los Angeles 66 Calif 6-7-15  Atlantic Research Corp  901 N Columbus St  Alexandria Va 2-11-29-31  Atlas Eng'g Co  176 Blue Hill Ave Roxbury 19 Mass 7-15  Audio Instrument Co  133 W 14 St New York 11 NY 2-14  Autonetics Div North American Avintion  9150 E Imperial Hwy Downey Calif 24  Autron Eng'g Inc  1254 W 6 St Los Angeles 17 Calif 5-9-19-21-24
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P O Box 508 Ottawa Ontario Can	9
Conn Telephone & Electric Corp	1_9/1_98
66 Brooklyn Ave Westbury NY 1-4-5 Consolidated Electrodynamics Corp	-6-9-20
300 N Sierra Madre Villa Pasadona Calif 6-7-1	8-25-30
Consolidated Productions Inc	
Broward Int'l Airport Ft Lauderdale Fla	5-19-20
Continental Electronics Ltd 302 Oakland St Brooklyn 22 NY	8-9
Control Specialists Inc 115 E Arbor Vitae St	
Inglewood 1 Calif Cook Co Frank R	24-28
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5440 N Peck Rd El Monte Calif	5-25-30
Crescent Eng'g & Research Co 5440 N Peck Rd El Monte Calif Cycle Transformer Corp 356 Glenwood Ave E Orange 11 NJ	15
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216 S Main St Dayton 2 Ohio	10
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Deltime Inc 608 Fayette Avc Mamaroneck NY	31
Deltron Inc 2905 N Leithgow St	.,,
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Denrad Mfg Co 310 W Woodard St Denison Texas Detroit Controls Corp Norwood	5-19
Controls Unit	
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Electronic Research Associates
Electronic Specialty Co
5121 San Fernando Rd Los Angeles 39 Calif
Electronic Systems Eng'g Co 903 Cravens Blvd Oklahoma City Okla
Electronic Tube Corp 1200 E Mermaid Lane
Philadelphia 18 Pa 7-18-2 Electro Products Labs Inc
4501 N Ravenswood Ave Chicago 40 Ill 3
Electrosolids Corp 7436 Varna Ave N Hollywood Calif 15-21-2 Electro-Technical Labs
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5134 Glenmont Houston Texas 2 Ellis Associates
67 Lincoln Ave Pelham NY 7-18-25-2 El-Tronics Inc
Penn Ave Mayfield Pa 6-9-14-1
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Endevco Corp 161 E California St Pasadena Calif 2-8-19-2
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Santa Ana Calif 2-7-21-22-26-28-3
Engineered Magnetics Div Gulton Industries Inc
13030 Cerise Ave Hawthorne Calif E O Electronics Inc
Mountain Lakes NJ 8-18 Epsco Inc
588 Commonwealth Ave Boston 15 Mass 7-21
Erco Radio Labs Inc 637 Stewart Ave
Garden City NY 3-9-11-21-28 Erie Resistor Corp
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100 Kingsland Rd Clifton NJ 17-21 Feedback Controls Inc
899 Main St Waltham 54 Mass 4-15-24-28 Femco Inc
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Gordon Enterprises	Laboratory For Electronics Inc	Moseley Co F L 409 N Fair Oaks Ave Pasadena Calif 14
5362 N Cahuenga Blvd	75 Pitts St Boston 14 Mass 7 Lab-Tronics Inc	M Ten Bosch Inc
N Hollywood Calif 19 Gotham Audio Development Corp	3656 N Lincoln Ave Chicago Ill 30	80 Wheeler Ave Pleasantville NY 24
2 W 46 St New York 36 NY 20-29	Land-Air Inc Instrument & Electronic Div	Mt Sopris Instrument Corp 1320 Pearl St Boulder Colo 22
GPS Instrument Co	2133 Adams Ave San Leandro Calif 9-21-22-26-28-30	Muirhead & Co Ltd
811 Boylston St Boston 16 Mass 4-7-9-10-14-25-31	Lane Electronics Mfg Corp	Beckenham Kent England 12
Gray Research & Development Co	7254 Atoll Ave N Hollywood Calif 28	Muirhead Instruments Inc 677 5 Ave New York 22 NY 17-24-27-30
Hilliard St Manchester Conn 9	Langevin Mfg Corp 47-37 Austell Pl 2-3-5-6-7	National Aircraft Corp
Gulton Industries Inc 212 Durham Ave Metuchen NJ 2	Long Island City 1 NY 15-20-21-22-24-28	3411 Tulare Ave Burbank Calif
Gyro Electronics Co	Lear Inc	National Scientific Labs Inc 2010 Massachusetts Ave N W
325 Canal St New York 13, NY 28	3171 S Bundy Drive	Washington 6 D C
Hagan Chemicals & Controls Inc Hagan Bld; Pittsburgh 30 Pa 7-24	Santa Monica Calif 5-9-24-27 Leeds & Northrup Co	Navco Navigation Computer Corp
Hallamore Electronics Co	4970 Stenton Ave Philadelphia 44 Pa 3-17-24	1621 Snyder Ave Philadelphia 45 Pa 6-7-28 Nevada Air Products Co
8352 Brookhurst Ave	Lee Electric & Mfg Co	P O Box 2472 Reno Nev 1-4-7-16-19-28-29
Anaheim Calif 7-9-15-17-24-28 Haller Raymond & Brown	2806 Clearwater St Los Angeles 39 Calif 15 Lel Inc	Non-Linear Systems Inc
124 N Atherton St	380 Oak St Copiague NY 9-14-21-22-28	Del Mar Airport Del Mar Calif 8-17-25 Norden-Ketay Corp
State College Pa 14-19-28-31	Leonard Electric Products Co	Commerce Rd
Hallicrafters Co 4401 W 5 Ave Chicago 24 Ill 15-28-31	67 34 St Brooklyn 32 NY 4 Librascope Inc	Stamford Conn 4-5-12-15-21-22-24-27-28
Hall-Scott Inc Electronics Div	808 Western Ave Glendale Calif 4-5-13-15	North American Instruments Inc 2420 N Lake St
2950 N Ontario St Burbank Calif 4-7-21	Ling Electronics Inc	Altadena Calif 6-9
Hamilton Electronics 2726 Pratt Ave Chicago 45 III 20-28	5120 W Jefferson Blvd Los Angeles 16 Calif 2-3-20-30	Northern Plastics Corp
Hammarlund Mfg Co	Link Aviation Inc	2nd Market St LaCrosse Wisc 21 Norton Co
460 W 34 St New York 1 NY 5	Binghamton NY 24	1 New Bond St Worcester 6 Mass 4-22
Hamner Electronics Co Princeton NJ 2-19-22-31	Linlar Inc 4101 San Fernando Rd Glendale 4 Calif 28	Nuclear-Electronics Corp
Hancock Electronics Corp	Liston-Becker Plant Beckman	2632 W Cumberland St Philadelphia 32 Pa 2-7
2553 Middlefield Rd Redwood City Calif 9-21-28-31	Instruments Inc	Nucleonic Corp of America
Hanson-Gorrill-Brian	649 Hope St Springdale Conn 7 Litton Industries of Calif	196 Derraw St Brooklyn 31 NY 22
85 Hazel St Glen Cove NY 6	336 N Foothill Rd Beverly Hills Calif 9	Oberline Inc PO Box 921 Beverly Hills Calif 3
Harrison Labs 45 Industrial Rd Berkeley Heights NJ 28-31	Litton Industries of Md Inc	Offner Electronics Inc
Harvey-Wells Electronics Inc	4910 Calvert Rd College Park Md 15-24-27 Lynmar Engineers Inc	5320 N Kedzie Ave Chicago 25 III 6-7-10-13-16-18-25
North St Southbridge Mass 5-7-9-18-21-22	1432 N Carlisle St Philadelphia 21 Pa 31	Chicago 25 Ill 6-7-10-13-16-18-25 Oltronix Corp
Hathaway Instrument Div Hamilton Watch Co	Lytle Eng'g & Mfg Co	235 Underwood Dr Atlanta 5 Ga 7
5800 E Jewell Ave Denver 22 Colo 26	1404 San Mateo Blvd S E Albuquerque New Mex 9-21	Omega Instrument Co
Heath Co	McKenna Laboratories	103 E Altadena Dr Altadena Calif 6-31 Gmega Labs Inc
305 Territorial Rd Benton Harbor Mich 4	2503 Main St Santa Monica Calif 29	Haverhill St Rowley Mass 1
Heiland Div Minneapolis-Honeywell 5200 E Evans Ave	Macarr Inc 2543 Boston Rd New York 67 NY 15	Oshowno Flortropic Corp
Denver 22 Colo 6-7-9-13-16-25-30-31	Machinery Electrification Inc	712 SE Hawthorne Blvd Portland 14 Ore 15
Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif 28-31	35 Hudson St Northboro Mass 19-28	Oster Mfg Co John 1 Main St Racine Wisc 28
275 Page Mill Rd Palo Alto Calif 28-31 Hogan Labs Inc	Mack Electronics Div Mack Trucks Inc	Otis Elevator Co Electronic Div
155 Perry St New York 14 NY 12	40 Leon St Boston 15 Mass 4-5-6-24-27-28 Mack Electronics Div Inc Sub Mack	35 Ryerson St Brooklyn 5 NY 4-5-22-24-29
Hoover Electronics Co	Trucks Inc	Brooklyn 5 NY 4-5-22-24-29 Packard Bell Electronics Corp
3640 Woodland Ave Baltimore 7 Md 4-6-9-11-13-21-28	1120 S 2 St Plainfield NJ 9-21	12333 W Olympic Blvd
Hupp Electronics Co Div Hupp Corp	Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY 15-28	Los Angeles 64 Calif
743 Circle Ave Forest Park III	Magnetic Research Corp	Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash 12
Indikon Co 76 Coolidge Hill Rd Watertown 72 Mass 24-25	3160 W El Segundo Blvd	Pampa Electronics Corp
Industrial Control Co	Hawthorne Calif 7-15-24-25 Manning Maxwell & Moore Inc	1354 Frankford Ave I illiadelpina of a
805 Albin Ave Lindenburst LI NY 7-8-10-16-24-25	Shelter Rock Lane Danbury Conn 5-7-17-24	Parameters Inc 195 Herricks Rd New Hyde Park NY
Lindenhurst LI NY 7-8-10-16-24-25 Industrial Research Labs Div Aeronca Mfg	Matthew Labs 146 Riverdale Ave Yonkers NY 7-14-19	Parsons Co Ralph M Electronics Div
Corp Hilltop & Frederick Rds	146 Riverdale Ave Yonkers NY 7-14-19 Maurer Inc J A	151 S DeLacey Ave Pasadena Calli
Baltimore 28 Md 4-6-9-20-24-25	37-01 31 St Long Island City 1 NY 5	Pedersen Electronics 3667A Mt Diablo Blvd Lafayette Calif 2
Industrial Test Equipment Co 55 E 11 St	Maxson Corp W L	Peer Inc
New York 3 NY 2-4-5-7-8-9-17-24-31	475 10 Ave New York 18 NY 9 Maxson Instruments Div W L Maxson Corp	1200 Milton St Benton Harbor Mich 9
Industrial TV Inc	47-37 Austell Pl	Pegasus Labs Inc
369 Lexington Ave Clifton NJ 18-24 Instruments for Industry Inc	10 04 00	agan will mile ka berkley mich
instruments for industry inc	Long Island City 1 NY 15-24-28	Penn-East Eng'g Corp
150 Glen Cove Rd Mineola NY 31	MB Mfg Co Div Textron Inc	Penn-East Eng'g Corp Willow St Kutztown Pa 5-15
International Research Associates	MB Mfg Co Div Textron Inc 1060 State St New Haven 11 Conn 20-30-31	Penn-East Eng'g Corp Willow St Kutztown Pa  5-15 Pentron Corp
International Research Associates 2221 Warwick Ave	MB Mfg Co Div Textron Inc 1060 State St New Haven 11 Conn 20-30-31 Measurement Eng'g Ltd 232 John St	Penn-East Eng'g Corp Willow St Kutztown Pa Pentron Corp 777 S Tripp Ave Chicago 24 Ill Pentron Massurements Co
International Research Associates 2221 Warwick Ave Santa Monica Calif 7-21-28	MB Mfg Co Div Textron Inc 1060 State St New Haven 11 Conn 20-30-31 Measurement Eng'g Ltd 232 John St Arnprior Ont Can 3-7-9-19-22	9300 W I Mile de Britis and Penn-East Eng'g Corp Willow St Kutztown Pa Pentron Corp 777 S Tripp Ave Chicago 24 Ill Performance Measurements Co 15301 W McNichols Rd Detroit 35 Mich 17-24
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Press Wireless Labs Inc	Skiatron Electronics & TV Corp	Trott Electronics Inc
25 Prospect Pl W Newton 65 Mass 3-5-12 Process & Instruments	180 Varick St 2-3-4-5-6-7-8-9- New York 14 NY 12-14-21-22-24-31	412 Smith St Rochester 6 NY 2-7-9
15 Stone Ave Brooklyn 33 NY 7-10-16 Production Research Corp 1-2-3-4-5-6-7-8-9-	Solartron Electronic Group Ltd Queens Rd 2-4-7-10-13-18-20-29	Ultradyne Eng'g Labs PO Box 3308 Albuquerque New Mex 6-30
Thornwood NY 10-11-12-13-14-15-16-17-18-	Thames Ditton Surrey England	United Control Corp
19-20-21-22-24-25-26-27-28-29-30-31 Pye Canada Ltd	Sonex Inc 73 S State Rd Upper Darby Pa 9-20-28	4540 Union Bay Pl 5-7-11-15-17- Seattle 5 Wash 24-25-27-28
82 Northline Rd Toronto 16	Southern Instruments Computer Div	United Electrodynamics
Ontario Canada 28-29 Pye Telecommunications Ltd	Frimley Rd Camberley Surrey England 4 Southwestern Industrial Electronics Co	1200 S Marengo Ave Pasadena Calif 2-7-21-28-25-28-30
Newmarket Rd Cambridge England 28	2831 Post Oak Rd	United Transformer Corp Pacific Div
Radiation Counter Labs Inc	Houston 19 Texas 7-15-23	4008 W Jefferson Blvd
5121 W Grove St Skokie Ill 14-22 Radiation Inc	Spencer-Kennedy Labs Inc 1320 Soldiers Field Rd	Universal Atomics Corp
PO Box 37 Melbourne Fla 5-24-25	Boston 35 Mass 22-31	50 Bond St Westbury LI NY 7-8-22
Radiation Instrument Co PO Box 733 Silver Spring Md 22	Sperry Gyroscope Co Div Sperry Rand Corp Great Neck NY 24-28	US Gauge Div American Machine & Metals Sellersville Pa 27-28
Radio Corp of America	Spivey Inc James S	US Recording Co
Commercial Electronic Products Camden 2 NJ 2-21	4908 Hampden Lane Washington 14 DC 5-7-25-28	1121 Vermont Ave Washington 5 DC 2-16-20 Valandy Electronics Corp
Radio Eng'g Co 8 State St	Stancil-Hoffman Corp	61-35 166 St Flushing 68 NY 21-28
New York 4 NY 9-28 Radio Eng'g Products Ltd	921 N Highland Ave Hollywood 38 Calif 3-20-21-28	Vapor Heating Corp 80 E Jackson Blvd Chicago 4 Ill 15
1080 University St	Standard Electronics Div., Radio Eng'g Labs	Varo Mfg Co
Montreal 3 Quebec Canada 31 Radio Kits Inc	30th & Borden Sts LIC NY 9-31 Standard Instruments	2201 Walnut St Garland Texas 15-28 Vemaline Products Co
120 Cedar St New York 6 NY 28	PO Box 11556	P O Box 222 Hawthorne NJ 24
Radionics Inc	Dallas 18 Texas 9-28	Vec-Trol Eng'g Inc
PO Box 186 Cockeysville Md 7-8-11-20-22-28 Ransom Research	Stewart Warner Electronics Div 1300 N Kostner Ave 4-7-9-10-12-13-	P O Box 1089 Stamford Conn 5-19-24 Vicon Inc
323 W 7 St 4-5-8-9-15-	Chicago 51 III 18-20-24-27-28	1353 Mesita Rd
San Pedro Calif 21-22-28-29-31 Rayco Electronic Mfg Inc	Stoelting Co C H 424 N Homan Ave Chicago 24 Ill 7-16	Colorado Springs Colo 28 Victoreen Instrument Co
11116 Cumpston St	Stratford Corp	5806 Hough Ave Cleveland 3 Ohio 7
N Hollywood Calif Raymond Eng'g Lab Inc	44 W 28 St New York 1 NY 11 Stromberg-Carlson Div General Dynamics Corp	Virzinia Electronics Co River Rd & B & O RR
Smith St Middletown Conn 15	100 Carlson Rd	Washington 16 DC 5-9
Raytheon Mfg Co Commercial Equip Div 100 River St Waltham 54 Mass 24	Rochester 3 NY 3-4-5-6-7-9-21 Strong Electric Corp	Volkers & Schaffer Mfg Corp 2315 2 Ave Carman 9-10-16-18-21-
Reeves Instrument Corp	87 City Park Ave Toledo 1 Ohio 24	2315 2 Ave Carman 9-10-16-18-21- Schenectady NY 23-25-28-31
215 E 91 St New York 28 NY 4-7-13 Reflectone Corp	Sullivan Ltd H W 80 Shore Rd Port Washington NY 17	Voron & Co George
Boston Post Rd	80 Shore Rd Port Washington NY 17 Syntronic Instruments Inc	835 N 19 St Philadelphia 30 Pa 2-3-20-29 WacLine Inc
Stamford Conn 4-15	170 Industrial Rd Addison Ill 26	35 S St Clair St
Remler Co 2101 Bryant St San Francisco Calif 21-28	Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W	Dayton 2 Ohio 5-15-16-20-28 Waldorf Instrument Co Div F C Huyck & Sons
Rese Eng'g Inc	Woodside 77 NY 2-7-9	Park Ave Huntington Station NY 27-28
731 Arch St Philadelphia 6 Pa 2-4-22 Research Electronics Lab	Tarc Electronics Inc 48 Urban Ave Westbury LI NY 2-3-9-19-26	Walkirt Co 141 W Hazel St
Roslyn Pa 7-26	Tatnall Measuring Systems Co	Inglewood 3 Calif 10-11-20-21-22
Rheem Mfg Co Electronics Div 7777 Industry Ave Rivera Calif 7	Kimberton Rd Phoenixville Pa 25 Teca Corp	Wallson Associates Ltd 963 Frelinghuysen Ave Newark 12 NJ 15
Rhein Sound Systems Inc	80 Main St White Plains NY 16	Warren Mfg Co
133 Hamilton St New Haven 5 Conn 2-3-9-30-31	Technical Measurement Corp 140 State St New Haven 11 Conn 22	Newtown Rd Littleton Mass 24
Rich Electronics Inc	Technograph Printed Electronics	Waveline Inc Passaic Ave Caldwell NJ 1
212 NW 8 Ave Miami 36 Fla 6-28 Rixon Electronics Inc	185 Valley St Tarrytown NY 21	Wave Particle Corp
2414 Reedie Dr	Techtron Electronics Ltd 583 Gramatan Ave Mt Vernon NY 2	PO Box 252 Menlo Park Calif 31
Silver Spring Md 28	Tektronix Inc PO Box 831 Portland 7 Ore 7-10-18	Webster Electric Co 1900 Clark St Racine Wisc 2
RME Div Electro Voice Inc Buchanan Mich 28	Telechrome Mfg Corp	Weinschel Eng'g
Robinette Co W C	28 Ranick Dr 2-7-8-9-10-14-18-	10503 Metropolitan Ave Kensington Md 1 Westbury Electronics Inc
802 Fair Oaks Ave S Pasadena Calif 24 Rockwell Eng'g Co	Amityville LI NY 19-20-22-31 Telectro Industries Corp	300 Shames Dr
2133 E 45 St Indianapolis 5 Ind 19 Ronar Inc	35-18 37 St Long Island City 1 NY 6-11	Westbury NY 2-4-8-9-24-31
1316 Sherman Ave Evanston III 16	Telematic Industries Inc 16 Howard Ave Brooklyn 7 NY 28	West Coast Research Corp 23711% Westwood Blvd 4-5-6-7-8-21-
RS Electronics Corp	Telemeter Magnetics Inc	Los Angeles 64 Calif 22-24-25-27-28
435 Portage Ave Palo Alto Calif 9-11-21-22-28-31	2245 Pontius Ave Los Angeles 64 Calif 4-8-15-21-22-28	Western Radiation Lab 1107 W 24 St Los Angeles 7 Calif 9-16
Sanborn Co	Telephonics Corp	Westinghouse Electric Corp
175 Wyman St Waltham 54 Mass 24-25 Saratora Industries	Park Ave 2-4-5-7-8-9-10- Huntington LI NY 11-21-25-28-29	P O Box 868 Pittsburgh 30 Pa 9-10-11-14-15-17-24-26
Congress & Ballston Aves	Teletronics Lab Inc	Pittsburgh 30 Pa 9-10-11-14-15-17-24-26 Westrex Corp
Saratoga Springs NY 15 Scantlin Electronics Inc	54 Kinkel St Westbury NY 18-22	111 8 Ave New York 11 NY 19
11624 W Pico Blvd	Telex	Westronics Inc 3605 McCart Ft Worth Texas 24
Los Angeles 64 Calif 4-19-28 Schaevitz Eng'g	1633 Eustis St St Paul 1 Minn 7-11 Texas Instruments Inc	Wheeler Insulated Wire Co
PO Box 505 Camden 1 NJ 24	Industrial Instrumentation Div	150 E Aurora St Waterbury 20 Conn 20-22
Schirmer-National Alarm Co 20 Westside Ave	3609 Buffalo Speedway Houston 6 Texas 6-7-18-20-23-28	White & Son James L 374 Verona Ave Newark 4 NJ 5-15
Bergenfield NJ 5-15-29-30	Houston 6 Texas 6-7-18-20-23-28 Textran Corp	Wiancko Eng'g Co
Schulmerich Electronics Inc	Box 4252 Austin 51 Texas 21-28	255 Halstead St Pasadena Calif 25 Wide Range Recording Corp
Sellersville Pa 2-5-6-9-11-28 Seismograph Service Corp	Thompson Products Inc Electronics Div 2196 Clarkwood Rd Cleveland 3 Ohio 15	527 N Grand Blvd St Louis 3 Mo 21-28
6200 E 41 St Tulsa 1 Okla 23-31	Topp Industries Inc	Wilmar Mfg Co
Seneca Falls Machine Co 314 Fall St	5255 W 102 St Los Angeles 45 Calif 21-24-25-30	1110 Truman Rd Kansas City Mo 7 Worner Electronic Devices
Seneca Falls NY 9-11-20-21-24	Torwico Electronics Inc	Rankin Ill 5-19
Servo Corp of America 2020 Jericho Turnpike	1090 Morris Ave Union NJ 24 Tracerlab Inc	
New Hyde Park NY 1-4-5-7-24-27	1601 Trapelo Rd Waltham 54 Mass 31	
Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif 4-5-24	Transformer Technicians Inc 2608 N Cicero Ave Chicago 39 III 15-20	4—AMPLIFIERS, TELEVISION
Servonics Inc	Transformers Inc	Amplifiant boosts-
822 N Henry St Alexandria Va 4-15-24 Servo-Recording Instruments Inc	200 Stage Rd Vestal NY 15 Transicoil Corp	Amplifiers, booster 1 Amplifiers, distribution 2
1815 W Van Buren St	Worcester Pa 28	Amplifiers, isolation 3
Phoenix Ariz 22-28 Servo-Tek Products Co	Transistor Components Co 301 Oakwood Ave	Amplifiers, keying 4
1086 Goffle Rd Hawthorne NJ 13-20-24	E Aurora NY 9-11-20-21-28	Amplifiers, limiting 5
Shepard Labs Inc 480 Morris Ave 2-4-6-7-9-15-18-19-	Transval Eng'g Corp 10401 W Jefferson Blvd	Amplifiers, line 6
Summit NJ 20-21-22-28	Culver City Calif 9-24-28	Amplifiers, mixing 7
Sigmadyne of Conn P O Box 869 Port Chester NY 5	Tri-Dex Electronics PO Box 1207 Lindsay Calif 9-21	Amplifiers, monitoring 8
Simplex Equipment Corp	PO Box 1207 Lindsay Calif 9-21 Tripl-T Electronics Co	Amplifiers, montage 9
55 La France Ave Bloomfield NJ 5-9-19	Box 5352 Pasadena Calif 28	Amplifiers, remote
Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY 2-19	Tri-R Instruments 24-15 44 Rd Long Island City 1 NY 16	Amplifiers, television 12
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Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 1-2-7-12	Radio Corp of America Commercial Electronic Products 1-2-5-6-7	Analyzers, video
Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 1	Camden 2 NJ 10-12 Radio Kits Inc	Andryzers, waveform
Airtronix Development Corp	120 Cedar St New York 6 NY 12	Acoustica Associates Shore Rd
4902 Church Ave Brooklyn NY 12 Altec Lansing Corp	Ramo-Wooldridge Corp 5730 Arbor Vitae St Los Angeles 45 Calif 2-8	Glenwood Landing LI NY 29
1515 S Manchester Ave Anaheim Calif 1	Rauland-Borg Corp 3515 W Addison St Chicago 18 Ill 1	Advanced Electronics Inc 94 Silas Deane Hwy Rocky Hill 9 Conn 30
Ameco 2949 W Osborn Rd Phoenix Ariz 12	Reeves Instrument Corp	Advanced Instruments Inc 21 Oakcrest Rd Needham 92 Mass 12
American Communications Corp 280 Broadway New York 17 NY	215 E 91 St New York 28 NY 1 Research Electronics Lab	Airborne Electronics Co
American Electronics Inc Instrument Div	Roslyn Pa 11	AiResearch Mfz Co Div Garrett Corp
9503 W Jefferson Blvd Culver City Calif 1	Rhein Sound Systems Inc 133 Hamilton St New Haven 5 Conn 1	9851 Sepulveda Blvd Los Angeles 45 Calif 27 Airmee Ltd High Wycombe
American Electronic Laboratories 121 N 7 St Philadelphia 6 Pa 2	Rixon Electronics Inc 2414 Reedie Dr Silver Spring Md 1	Buckinghamshire England 16-32
American Microwave Corp	Schulmerich Electronics Inc	Amerac Inc 116 Topsfield Rd Wenham Mass 20-22
11754 Vose St N Hollywood Calif 12 Amplitel Inc	Spencer-Kennedy Labs Inc	Alto Scientific Co 855 Commercial St Palo Alto Calif 5
342 W 40 St New York 18 NY 2-7-10-12 Applied Research Inc	1320 Soldiers Field Rd Boston 35 Mass 2-10-12	Aloe Scientific
163-07 Depot Rd Flushing 58 NY 12	Standard Electronics Corp	American Electronic Laboratories
Avionics Ltd PO Box 200 Niagara-on-the Lake	Sub Dynamics Corp of America 285 Emmett St Newark 5 NJ 12	121 N 7 St Philadelphia 6 Pa 28 American Instrument Co
Ontario Canada 1 Bell Aircraft Corp	Standard Electronics Div Radio Eng'g Labs 30 & Borden Sts	8030 Georgia Ave Silver Spring Md 13
PO Box 1 Buffalo 5 NY 3-5-6-7-8-10	Long Island City NY 2-8-12	Analogue Controls Inc 39 Roselle St Mineola NY
Blonder-Tongue Laboratories 9-25 Alling St Newark 2 NJ 2-3-6-10-12	Stewart Warner Electronics Div 1300 N Kostner Ave Chicago 51 III 1-3	Applied Physics Corp 362 W Colorado St Pasadena 1 Calif 15
Bogen Co David PO Box 500 Paramus NJ 1	Stromberg-Carlson Div General Dynamics Corp	Annlied Research Inc
Buss-Clement-Doughten & Associates	100 Carlson Rd	163-07 Depot Rd Flushing 58 NY 21-24 Arenberg Ultrasonic Laboratory
201 B Studio Hill Chester Springs Pa 2-7-8-10-11-12	Rochester 3 NY 1 Taffet Radio & TV Co	94 Green St Jamaica Plain 30 Mass 29
Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham	27-05 Brooklyn-Queens Expressway W Woodside 77 NY 1	Audio Accessories Amityville NY
London S E 26 England 8	Tarc Electronics Inc	Audio Instrument Co 133 W 14 St New York 11 NY 17
Commercial Radio Sound Corp 652 1 Ave New York 16 NY 1-2	48 Urban Ave 2-5-6-7-8-9- Westbury LI NY 10-11-12	Axler Associates Inc 102-42 43 Ave Corona 68 NY 15
Community Eng'g Corp	Tarzian Inc	Bailey Meter Co
Consolidated Productions Inc	Sarkes E Hillside Drive Bloomington Ind 2-6-12	1050 Ivanhoe Rd Cleveland 10 Ohio 15
Broward Int'l Airport Ft Lauderdale Fla 10 Continental Electronics Mfg Co	Telechrome Mfg Corp 28 Ranick Dr 2-4-5-6-7-8-	Baird-Atomic Inc 33 University Rd
4212 S Buckner Blvd Dallas 27 Texas 12	Amityville LI NY 9-11-12	Cambridge 38 Mass 6-9-24
Dage TV Div Thompson Products W 10 St Michigan City Ind 2-6	Telephonics Corp Park Ave Huntington LI NY 1	Baker & Co 113 Astor St Newark 2 NJ 15
Doty Acoustical Electronic Labs 431 Broome St New York 13 NY 1	Tel-Instrument Electronics Corp 726 Garden St Carlstadt NJ 2-12	Barker & Williamson Inc Canal & Beaver Sts
Electro Sound Corp	Trans-Tel Corp	Bristol Pa 2-10-11
115 Halleck St Boston 15 Mass 1-2 Electronic Communication Equipment Co	736 N Highland Ave Los Angeles 38 Calif 1-2	Beckman/Berkeley Div Beckman Instruments Inc
1249 W Loyola Ave Chicago 26 Ill 1 Entron Inc	Transvision Inc 460 North Ave New Rochelle NY 12	2200 Wright Ave Richmond 3 Calif Beckman Instruments Inc Process
4902 Lawrence St	Voron & Co George	Instruments Div 2500 Fullerton Rd
Bladensburg Md 2-3-5-6-7-10-12 Femco Inc	835 N 19 St Philadelphia 30 Pa 1-2 Waldom Electronics Inc	Fullerton Calif 7-9-12-15-24 Bendix Aviation Corp Bendix Computer Div
Irwin Pa 1 Fidelity Amplifier Co	4625 W 53 St Chicago 32 Ill 2	5630 Arbor Vitae St
703 Willow St Chicago 14 III 1	Warwick Mfg Corp 7300 N Lehigh Ave Chicago 31 III 12	Doublin American Comp
Foto-Video Labs Inc 25 Amity St 1-2-3-4-5-6-7-	Webster Electric Co 1900 Clark St Racine Wisc 1	1104 Fisher Bldg Detroit 2 Mich 9-10-13-22 Benson-Lehner Corp
Little Falls NJ 8-9-10-11-12 Gates Radio Co	Westbury Electronics Inc	11930 W Olympic Blvd
123 Hampshire St Quincy III 12	300 Shames Dr Westbury NY 1-3-6-7-12 Winder Aircraft Corp of Florida	R & K Mfg Co
General Precision Lab Inc 63 Bedford Rd	P O Box 2397 Drane Field Lakeland Fla 1	3726 N Southport Chicago Ill 28 Bolton Labs Inc
Pleasantville NY 1-2-3-6-8-10-11-12 Hamilton Electronics	Lanciana 1 in	W Main St Bolton Mass 20-24
2726 Pratt Ave Chicago 45 Ill 1		Boonton Electronics Corp 738 Speedwell Ave Morris Plains NJ 4
Hancock Electronics Corp 2553 Middlefield Rd	5—ANALYZERS	Bristol Co PO Box 1790 EITT
Redwood City Calif 2-3-4-5-6-7-8-9-10-11-12 Harrison Labs	Analyzers, antenna pattern 1	Waterbury 20 Conn 5-12-23 Brush Electronics Co
45 Industrial Rd Berkeley Heights NJ 6-11-12	Analyzers, audio-amplifier 2	3405 Perkins Ave
Holland Electronics 2133 Central Dr	Analyzers, cable 3	Cleveland O 14-21-23-24-25-30 Brush Electronics Co Texas Div
S East Meadow NY 2-3-5-6-7-8-11-12 Industrial TV Inc	Analyzers, capacitor 4 Analyzers, circuit 5	3732 Westheimer Rd Houston 6 Texas 30 Calif Technical Industries
369 Lexington Ave Clifton NJ 1-12	Analyzers, coincidence 6	1421 Old County Rd Belmont 10 Calif 1-5
International Research Associates 2221 Warwick Ave Santa Monica Calif 1	Analyzers, color 7	Cambridge Instrument Co Grand Central Terminal New York 17 NY 15
International Telemeter Corp 2000 Stoner Ave	Analyzers, crystal 8	Canoga Corp 5955 Sepulveda Blvd
Los Angeles 25 Calif 2-3-6-12	Analyzers, differential 9 Analyzers, digital 10	Van Nuys Calif 20-22-24
Jerrold Electronics Corp 23 & Chestnut Sts	Analyzers, dimensional 11	CGS Laboratories Inc 391 Ludlow St Stamford Conn 14
Philadelphia 3 Pa 1-2-3-6-7-10-12 Kaiser Aircraft & Electronics Corp	Analyzers, electrochemical 12	Chemalloy Electronics Corp
Toledo Electronics Div	Analyzers, engine	Chesapeake Instrument Corp
PO Box 437 Toledo Ohio 1 Kintel (Kay Lab) 5725 Kearny Villa Rd	Analyzers, frequency 14 Analyzers, gas 15	Shadyside Md 27 Cleveland Instrument Co
San Diego 12 Calif 2-6-10 Langevin Mfg Corp	Analyzers, harmonic 16	735 Carnegie Ave Cleveland 15 Ohio 11-27
47-37 Austell Pl	Analyzers, intermodulation 17	Collins Radio Co 855 35 St NE Cedar Rapids Iowa 24
Leonard Electric Products Co	Analyzers, internal combustion 18 Analyzers, magnetic 19	Computing Devices of Canada Ltd PO Box 508 Ottawa Ontario Can 31
67 34 St Brooklyn 32 NY 4-12 Neill Co R W	Analyzers, microwave 20	Consolidated Avionics Corp 66 Brooklyn Ave Westbury NY 25-28
4320 Montrose Ave Chicago 41 Ill 1	Analyzers, noise	Consolidated Electrodynamics Corp
Palmer Inc M V 4002 Fruit Valley Rd	Analyzers, radar	300 N Sierra Madre Villa Pasadena Calif 15-25-27-30
Vancouver Wash Polarad Electronics Corp	Analyzers, servo	Consolidated Wire & Associated Cos
43-20 34 St Long Island City 1 NY 2	Analyzers, stress 25	1635 S Clinton St Chicago 16 Ill 3
Production Research Corp Thornwood NY 1-2-3-4	Analyzers, surface 26	Cornell-Dubilier Electric Corp 333 Hamilton Blvd
Pulse Techniques Inc 1411 Palisade Ave W Englewood NJ 1	Analyzers, transducer 27 Analyzers, transistor 28	S Plainfield NJ
Pye Canada Ltd	Analyzers, ultrasonic 29	Crescent Eng'g & Research Co 5440 N Peck Rd
82 Northline Rd Toronto 16 Ontario Canada 2-7-8-12	Analyzers, vibration 30	El Monte Calif 30

Dallons Labs 5066 Santa Monica Blvd	
Los Angeles 29 Calif Davenport Mfg Co	8-29
1719 M Anhi J A.	
Chicago 22 Ill	5
Chicago 22 Ill Defender Instrument & Regulator C Boody Ill	o 15-18
DeMornay-Bonardi Corp 780 S Arroyo Pkwy Pasadena Calif	
Devco Eng'g Inc	20-24
PO Box 387 Caldwell NJ Dit-Mco Inc Electronics Div	15
911 Broadway Kansas City Mo Donner Scientific Co	3-5
888 Galindo St	
Concord Calif Du Mont Labs Inc Allen B	32
Dyna-Empire Inc	13
1075 Stewart Ave Garden City LI P Dynamics Instrumentation Co	VY 19-27
Div Alberhill Corp	
Edin Co	21-24-30
207 Main St Worcester 8 Mass	14-24
Electronic Research Associates	
67 E Centre St Nutley 10 NJ Electronic Tube Corp	28
1200 E Mermaid Lane Philadelphia 18 Pa	25-30
Electro-Physics Co	
287 Broadway New York 7 NY Ellis Associates	12
Ellis Associates 67 Lincoln Ave Pelham NY Ellison Draft Gage Co 584 W Monre St Chicago 6 III	25
584 W Monroe St Chicago 6 Ill	15
Empire Devices Products Corp  38-15 Bell Blvd Bayside 61 NY	21
Endevco Corp 161 E California St Pasadena Calif	27-30
551 5 Ave New York 17 NV	01.00
Erwood Inc 1770 W Berteau Ave Chicago 13 Ill Fairchild Guided Missiles Div	44-40
Fairchild Guided Missiles Div	l 30
Fairchild Engine & Airplane Corp Straight Path Wyandanch LI NY Federal Telephone & Radio Co Div II	28
Federal Telephone & Radio Co Div II 100 Kingsland Rd Clifton NJ	r&T
Feiler Eng'g & Mfg Co	16-32
First Electronics Corp	5
117 Blue Hill Ave Boston 19 Mass Fisher Scientific Co	3
Fisher Scientific Co 711 Forbes St Pittsburgh 22 Pa Foto-Video Labs Inc 25 Amity St Little Falls NJ Franklin Electronics Inc Roy 112 Paidors Pa	12
25 Amity St Little Falls NJ	14-31
Box 113 Bridgeport Pa 2	-9-24-32
Box 113 Bridgeport Pa 2 Freed Transformer Co 1718-36 Weirfield St Brooklyn 27 NY	16
F-R Machine Works Inc Electronic & X-Ray Div 26-12 Borough Pl Woodside 77 NY Garrett Corp AiResearch Mfg Co Div 9851 Servlynda Plerd	
26-12 Borough Pl Woodside 77 NY	1-20-24
9851 Sepulveda Blvd Los Angeles 45 Calif	
General Communication Co 677 Reacon St Boston 15 Mass	27
Ageneral Electric Co Annaratus Salas F	20-22-24
1 River Rd Schenectady 5 NY	15-19
General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wis	24
General Precision Lab Inc 63 Bedford Rd Pleasantville NY	7-24
General Radio Co 275 Massachusetts Ave	
	21-30-32
162 State St Hartford 3 Conn	14-30
7315 Varna Ave N Hollywood Calif	20-24
	9
811 Boylston St Boston 16 Mass Giannini & C. G M 918 E Green St Pasadena Calif Gow-Mac Instrument Co	
Gow-Mac Instrument Co	10
Green Engla Ca	15
488 1 St Brooklyn 15 NY Gulton Industries Inc	20
212 Durham Ave Metuchen NJ Hallicrafters Co	29
	10
Hallikainen Instruments 1341 7 St Berkeley 10 Calif	7-15
Hall-Scott Inc Electronics Div	
2950 N Ontario St Burbank Calif Hamner Electronics Co	13
Princeton NJ Hanson-Gorrill-Brian	19
85 Hazel St Glen Cove NY Harshaw Chemical Co	13-18
Harshaw Chemical Co 1945 E 97 St Cleveland 6 Ohio Harvey-Wells Electronics Inc	7
North St Southbridge Mass	13
Hays Corp Michigan City Ind	15
Heath Co 305 Territorial Rd	
Benton Harbor Mich	2-13-17

Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif	<b>3</b> 2
Hickok Electrical Instrument Co 10514 Dupont Ave	02
Cleveland 8 Ohio 2-4. Ideal-Aerosmith Inc	-5-7-13
12909 S Cerise Ave Hawthorne Calif Industrial Control Co	27
Industrial Control Co 805 Albin Ave Lindenhurst LI NY 4 Industrial Research Labs Div Aeronca M	l-19-23 Ifg
Corn Hillton & Frederick Rds	20
Baltimore 28 Md Industrial Test Equipment Co 55 E 11 St New York 3 NY 2-14	-16-23
17 W 60 St New York 23 NY	15
Instrument Labs 315 W Walton Pl Chicago 10 Ill	5
International Research & Development Corp 797 Thomas Lane Columbus 16 Ohio	
	14-30
Interstate Electronics Corp 875 S East St Anaheim Calif Irwin Labs	24
1238 S Gerhart Ave Los Angeles 22 Calif Johnson Aircraft Eng'g Co M J	19-25
Morristown Airport Box 10  Morristown NJ	0.5
Johnson-Williams Inc	3-5
2625 Park Blvd Palo Alto 15 Calif J-V-M Eng'g Co 4633 S Lawndale Ave Lyons III Kaiser Aircraft & Electronics Corp	15 20-22
Kaiser Aircraft & Electronics Corp Toledo Electronics Div P O Box 437	20-22
	3-5-22
14 Manle Ave Pine Brook NT 2 2 14 20	-21-30
King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio Kistler Instrument Corp 15 Webster St N Tonawanda NY	13-15
15 Webster St'N Tonawanda NY Kit-Tronics	13
2315 Hendola Dr N E Albuquerque New Mex	28
Lab-Tronics Inc	30
3656 N Lincoln Ave Chicago 13 Ill Land-Air Inc Instrument & Electronic Div 2133 Adams Ave	.,,,
Div 2133 Adams Ave San Leandro Calif Land-Air Inc	13-30
Land-Air Inc 7444 W Wilson Ave Chicago 31 III Lavoie Labs Inc	13
Matawan-Freehold Rd Morganville NJ Leeds & Northrup Co	21
4970 Stenton Ave Philadelphia 44 Pa Liston-Becker Plant Beckman Instru- ments Inc 649 Hope St Springdale Conn	15
ments Inc 649 Hope St Springdale Conn Mack Electronics Div Inc Sub Mack	15
Trucks Inc 1120 S 2 St	24
Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY	28
Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY Manufacturers Eng'g & Equip Corp York Rd & Sunset Lane Hatboro Pa	15
Marconi Instruments Ltd	24-32
5 Pottley Pd Wingham Mace	30
Menlo Research Lab 538 Phelan Ave San Jose Calif	26
Metronix Inc Mill Lane Waterford Conn	28
Mico Instrument Co 80 Trowbridge St Cambridge 38 Mass Mine Safety Appliances Co 201 N Reeddock Ava Pittsburgh 8 Po	16
Mine Safety Appliances Co 201 N Braddock Ave Pittsburgh 8 Pa Minneapolis-Honeywell Regulator Co	15-21
Davies Labs Div 10721 Hanna St	
Beltsville Md Muirhead & Co Ltd Beckenham	14-32
Kent England 2-5-14-16- Muirhead Instruments Inc	
677 5 Ave New York 22 NY 14-16-21- National Aircraft Corp Electronics Div	
3411 Tulare Ave Burbank Calif National Instrument Labs Inc	19-28
Network Mfg Corp	15
3411 Tulare Ave Burbank Calif National Instrument Labs Inc 6108 Rhode Island Ave Riverdale Md Network Mfg Corp 213 W 5 St Bayonne NJ New England Transformer Co 47 McGrath Hwy Somerville 43 Mass Non-Linger Systems Inc	4
Non-Linear Systems Inc Del Mar Airport Del Mar Calif	28
Norden-Ketay Corp	10
Commerce Rd Stamford Conn North American Instruments Inc 2420 N Lake St Altadena Calif	28
Vorthonstern Engle Inc	10
25 S Bedford St Manchester NH NRC Equipment Corp Sub National Research Corp 160 Charlemont St Newton Highlands 61 Mass Nucleonic Corp of America	24
Newton Highlands 61 Mass	15
196 Degraw St Brooklyn 31 NY Oberline Inc	9
P O Row 921 Reverly Hills Calif	2
Offner Electronics Inc 5320 N Kedzie Ave Chicago 25 Ill Optron Corp	14
3526 State St Santa Barbara Calif	30

Otis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY Pace Electrical Instruments Co	9-1
Pace Electrical Instruments Co 70-31 84 St Glendale 27 LI NY Panoramic Radio Products Inc	
10 S 2 St 2-14-16	
Mt Vernon NY 24-29-30 Parameters Inc 195 Herricks Rd New Hyde Park NY	-31-3
Patwin Instruments Div Patent Button	Co 12-1
Waterbury 20 Coan Perkin-Elmer Corp Main Ave Norwalk Conn 7	-15-2
Permutit Co 330 W 42 St New York 36 NY	1
Phaostron Instrument & Electronic Co 151 Pasadena Ave S Pasadena Calif	
Polarad Electronics Corp	
Long Island City 1 NY 14-20 Polyphase Instrument Co E 4 St Bridgeport Pa Polytechnic Research & Development Co	-24-3
Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY	2
Polytronic Research Inc	
7660 Woodbury Dr Silver Spring Md Precision Apparatus Co 70-31 84 St Glendale 27 LI NY	
70-31 84 St Glendale 27 LI NY Process & Instruments 15 Stone Ave Brooklyn 33 NY	1
Production Research Corp	-22-3
Pye Canada Ltd 82 Northline Rd	
Pve Telecommunications Ltd	-15-2
Newmarket Rd Cambridge England 3- Pyramid Electric Co	-20-3
1445 Hudson Blvd N Bergen NJ Quantum Electronics Inc 2312 Wisconsin St	
N E Albuquerque N Mex Radar Engineers	2
401 E 45 St Seattle 5 Wash	
Radiation Counter Labs Inc 5121 W Grove St Skokie Ill Radio City Products Co	
Radio City Products Co Centre & Glendale Sts Easton Pa Ransom Research 323 W 7 St San Pedro Calif 10-	4-
Research Electronics Lab	14-2
Roslyn Pa Rese Eng'g Inc 731 Arch St Philadelphia 6 Pa	2
Rhein Sound Systems Inc 133 Hamilton St New Haven 5 Conn	
Rich Electronics Inc 212 NW 8 Ave Miami 36 Fla	
Milton Roy Co 1300 E Mermaid Lane Philadelphia 18 P	a 1
RS Electronics Corp 435 Portage Ave Palo Alto Calif	2
Schauer Mfg Corp 4501 Alpine Ave Rossmoyne Ohio	13
Scott Inc H H 385 Putnam Ave Cambridge 39 Mass Seco Mfg Co	2-2
5015 Penn Ave S Minneapolis 19 Minn	į
	14-25
Jackson & Pusey Aves Collingdale Pa	4
Shepard Labs Inc 480 Morris Ave Summit NJ	(
Sierra Electronic Corp 3885 Bohannon Dr Menlo Park Calif Skiatron Electronics & TV Corp	3-32
180 Varick St 6-9-10- New York 14 NY 23-24-	
Solartron Electronic Group Ltd Queens Rd Thames Ditton	
Surrey England 2-10-13-15-22- Sonex Inc	
73 S State Rd Upper Darby Pa Southern Instruments Computer Div Frimley Rd Camberley Surrey England	28
Sperry Gyroscope Co Div Sperry Rand Co	rp
Great Neck NY 12-13-14-18-20- Sprague Electric Co Marshall St North Adams Mass	32-2ª !
Stelma Inc 190 Henry St Stamford Conn	5
Stewart Warner Electronics Div	22
1300 N Kostner Ave Chicago 51 Ill Stoddart Aircraft Radio Co 6644 Santa Monica Blvd	
Hollywood 38 Calif Taller & Cooper	32
75 Front St Brooklyn 1 NY Tarc Electronics Inc 48 Urban Ave Westbury LI NY	15
Tathall Measuring Systems Co	7-31
Kimberton Rd Phoenixville Pa Technical Products Co Instrument Div	25
6670 Lexington Ave Los Angeles 38 Calif	32
Telechrome Mfg Corp 28 Ranick Dr	14 ^-
Amityville LI NY 7-14-17-5 Telectro Industries Corp 35-18 37 St Long Island City 1 NY 2	
OU AU OF DE LIUNE ISLAND UILY I NY 2.	-0-18

Tel-Instrument Electronics Corp	American Electronic Laboratories	Dale Products Inc
728 Garden St Carlstadt NJ 7-9-30-31 Tracerlab Inc	121 N 7 St Philadelphia 6 Pa 4-7-11-18-23 American Electronics Co	Columbus Nebr 1 Dalmo Victor Div Textron Inc
1601 Trapelo Rd Waltham 54 Mass 9	1203 Bryant Ave New York 59 NY 2-4	1515 Industrial Way Belmont Calif 5-11-23
Transitron Inc 186 Granite St Manchester NH 3	American Machine & Foundry Co	Dayton Aviation Radic & Equipment Corp
Ultradyne Eng'g Labs	Defense Products Group 1101 N Royal St Alexandria Va 5-6-7-11-13-14-17-18-19-22-24	R R 3 Troy Ohio 1-5 Defiance Eng'g Microwave Corp
P O Box 3308 Albuquerque New Mex 27	American Microwave Corp	Beverly Airport 1-5-6-7-10-11
Union Switch & Signal Div Westinghouse Air Brake Co Braddock Ave	11754 Vose St N Hollywood Calif 11 American Tower Co	Beverly Mass 13-14-15-17-18 DeMornay-Bonardi Corp
Pittsburgh 18 Pa 5	RFD 2 Box 29 Shelby Ohio 25	780 S Arroyo Pkwy Pasadena Calif 11-13-14
Vectron Inc	Amplitel Inc	Diamond Antenna & Microwave Corp
1611 Trapelo Rd Waltham 54 Mass 20-24 Victory Eng'g Corp	342 W 40th St New York 18 NY 21 Andrew Antenna Corp	7 North Ave Wakefield Mass 1-7-11-13-18-23 Dialectric Products Eng'g Co
117 Springfield Rd Union NJ 15	606 Beech St 1-2-3-4-5-6-7-11-12-13-15	Raymond Me 6-7-11-12-15-20
Westberg Mfg Co	Whitby Ontario Can 16-17-18-19-20-21	Dorne & Margolin
144 S Coombs St Napa Calif 13 West Coast Research Corp	Andrew California Corp 941 E Maryland Ave 1-2-3-4-5-6-7-10-11-12	29 New York Ave Westbury NY 1-5-7-11-20-21
2371½ Westwood Blvd	Claremont Calif 13-14-15-17-18-19-20-21-24	Douglas Microwave Co
Los Angeles 64 Calif 10-23-25-27-28 Westinghouse Electric Corp	Andrew Corp 363 E 75 St 1-2-4-5-6-7-11	252 E 3 St Mt Vernon NY
P O Box 868 Pittsburgh 30 Pa 5	Chicago 19 Ill 13-15-18-19	Dresser-Ideco Co 875 Michigan Ave Columbus 8 Ohio 25
Western Electro Acoustic Lab Inc	Antenna Specialists Co	D & S Mfg Co
11789 San Vicente Blvd Los Angeles 2 Weston Electrical Instrument Corp Sub	12435 Euclid Ave 1-2-6-7-10 Cleveland 6 Ohio 12-15-16-19	424 Burk Ave Ridley Park Pa 11-13-18-20-21 Dwyer Eng'g Co
Daystrom Inc 614 Frelinghuysen Ave	Antlab Inc	Pine St Ext Nashua NH 11
Newark 12 NJ 5-14-31 Westronics Inc	4950 N High St Columbus 14 Ohio 24	Ed-Berl Products Inc 87 Marrick Rd Baldwin NY 10
3605 McCart Ft Worth Texas 3-5	Apparatus Development Co 115 Main St Wethersfield 9 Conn 24	87 Merrick Rd Baldwin NY 10 Electrend Products Corp
Wiancko Eng'g Co	Applied Electronics Co	Box 110 St Joseph Mich 2-3-12
255 Halstead St Pasadena Calif 10 Winder Aircraft Corp of Florida	213 E Grand Ave S San Francisco Calif 10 Artted Co	Electrola Inc 7517 N Clark St Chicago 26 Ill 15
P O Box 2397 Drane Field Lakeland Fla 13	367 Worthington St Springfield 3 Mass 6	Electro-Mechanical Div General
Winkler Labs	Automatic Coil Co	Riveters Inc
Winston Electronics Inc	415 Bedford Ave Brooklyn 11 NY 3-8-9 Babcock Radio Eng'g Inc	785 Hertel Ave Buffalo 7 NY 24 Electron-Radar Products
4312 Main St Philadelphia 27 Pa 5	7942 Woodley Ave Van Nuys Calif 7	4806 W Chicago Ave Chicago 51 Ill 11-14
	Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass 11-18	Electronic Specialty Co
A ANTENNAS	Bart Mfg Corp	5121 San Fernando Rd Los Angeles 39 Calif
6—ANTENNAS,	227 Main St Belleville NJ 11	Emerson & Cuming Inc
COMMERCIAL	Bassett Inc Rex 1314 N E 17 Ct Ft Lauderdale Fla 2-6-10-12	869 Washington St Canton 1 Mass 11-23 Emerson Electric Mfg Co
Antono de de	Bell Aircraft Corp	8100 Florissant Ave St Louis 21 Mo I-11
Antennas, aircraft 1	P O Box 1 Buffalo 5 NY 1-5-6-11-13	Emerson-Sack-Warner Corp
Antennas, amateur 2	Belock Instrument Corp 111-01 14 Ave College Point 56 NY 5-10	85 Washington St Somerville 43 Mass 13 Endeco Eng'g Development Co of
Antennas, broadcasting, AM 3 Antennas, broadcasting, FM & TV 4	Bendix Aviation Corp Bendix Radio	Los Angeles
Antennas, direction finding 5	Div East Joppa Rd Towson 4 Md 1-3-5-6-7-8-12-13-15	922 E Anaheim St Wilmington Calif 10 Erco Radio Labs Inc
Antennas, fixed station 6	Bendix Aviation Corp	637 Stewart Ave Garden City NY 20-21
Antennas, ground plane 7	1104 Fisher Bldg Detroit 2 Mich 1-5-12-15	F-Z Way Towers Inc
Antennas, loop 8	Birdair Structures Inc 290 Larkin St Buffalo 10 NY 25	Farnaworth Electronics Co Div IT & T
Antennas, loop-core 9	Blaine Electronetics Inc	2702 To Donting St Ft Wayne Ind 11
Antennas, marine 10	14757 Keswick St 1-5-6-7-10-11-13-14 Van Nuys Calif 17-18-20-21-23-25	Federal Telephone & Radio Co Div IT & T 100 Kingsland Rd Clifton NJ 1-5-6-20-21
Antennas, microwave 11	Blaw-Knox Co	Finney Co
Antennas, mobile 12	300 6 Ave Pittsburgh 22 Pa 25	34 W Interstate St
Antennas, radar 13	Bogart Mfg Corp 315 Seigel St Brooklyn 6 NY 11	Bedford Ohio 2-5-11-16-17-20-21 Federal Telecommunication Labs Div IT&T
Antennas, radiation test 14	Bolton Labs Inc	500 Washington Ave
Antennas, railroad 15	W Main St Bolton Mass 11	Nutley NJ 1-5-11-20-21
Antennas, receiving, FM & TV 16	Brach Mfg Corp 200 Central Ave	Frederick Tool & Eng'g Corp 414 Pine Ave Frederick Md 2
Antennas, rotary beam 17	Newark 3 NJ 1-10-11-13-16-19	Fretco Inc
Antennas, slotted line 18	Budd Stanley Co 43-01 22 St Long Island City 1 NY 11-18	406 N Craig St Pittsburgh 13 Pa 1-2-6-7-11-15-16-20
Antennas, telescopic 19	Buggie Inc H H	F-R Machine Works Inc Electronic &
Antennas, UHF	P O Box 817 Toledo 1 Ohio 12	V-Pay Div
Antennas, VHF	Canadian Radium & Uranium Corp 630 5 Ave New York 20 NY 22	Cabriel Electronics Div Gabriel Co
Reflectors	Canoga Corp 5955 Sepulveda Blvd	195 Creacent Rd I-2-4-5-6-7-10-11-13
Rotators 24	Van Nuys Calif 11-13-20-21 Central Electronic Mfrs Inc	Needham Heights 94 Mass 14-15-18-20-21-24
Towers & supports, Commercial. 25	Sub Nuclear Corp of America	Gates Radio Co 123 Hampshire St Quincy Ill 4
	2 Richwood Pl Denville NJ 11-18	General Bronze Corp
	CG Electronics Corp 305 Dallas St N E 1-2-7-11-12-17	16-18-20-21-24
ACF Industries Nuclear Prods-Erco Div	Albuquerque New Mex 18-20-21-24	General Cement Mfg Co Div Textron Inc
48 Lafayette St Riverdale Md 11 Adler Electronics Inc	Chu Associates 634 Waverly St 1-5-6-7-8-10-11-13	400 S Wyman St Rockford III
1 LeFevre Lane New Rochelle NY 4-11-20-21	Framingham Mass 14-17-18-20-21-24	43 Roselle St Mineola NY
Admittance Namco Corp Marine St Farmingdale LI NY 11-20-21	Clear Beam Antenna Corp 21341 Roscoe Blvd Canoga Park Calif 16	General Communication Co
Advance Electronics Co	Coaxial Connector Co	General Crystal Co
8510 North End Ave Oak Park 37 Mich 11	37 N 2 Ave Mt Vernon NY 1-11-18	P O Box 9 Burlington Wis 2
Aerocoil Inc 24 Cliff St Jersey City 6 NJ 3-9	Coilcraft Inc Cary Ill 9	General RF Fittings Inc 702 Beacon St Boston 15 Mass 5-11
Aeronautical Electronics Inc	Coil Winders Inc	Giannini & Co G M
P O Box 6527 Raleigh NC 1-6-7-12-21 Ainslie Corp	New York Ave Westbury LI NY 10 Collins Radio Co	918 E Green St Pasadena Calif 24
312 Quincy Ave Quincy 69 Mass 7-11-13-24-25	855 35 St N E Cedar Rapids Iowa 1-4-5-6	Goodyear Aircraft Corp 1210 Massillon Rd Akron 15 Ohio 1-6-11
Aircom Inc	Columbia Products Co	Hackensack Cable Corp
1209 E Grand St Elizabeth NJ 11 Aircraft Radio Corp	6625 Shakespeare Rd Columbia SC 1-2-7-10-12-20	Hollow Roymond & Brown
Boonton NJ 1-5-8	Communication Equipment & Eng'g Co	124 N Atherton St State College Pa 1
Air Transport Mfg Co	5646 W Race Ave Chicago 44 III 1 Conn Marine Instrument Co	Hallicrafters Co
1114 N Sycamore Ave Los Angeles 38 Calif 1-5-7-23	Essex Conn 10	4401 W 5 Ave Chicago 24 Ill 1-5-11-13-20-21
Airtron Inc	Conrad & Moser	Hall-Scott Inc Electronics Div
1101 W Elizabeth Ave Linden NJ 11-13 Alford Mfg Co	2 Borden Ave Long Island City 1 NY 5-10 Cook Co Frank R	2950 N Ontario St Burbank Calif
299 Atlantic Ave Boston 10 Mass 4-22	36 S Santa Fe Dr Denver 23 Colo 23	Hi-Lo TV Antenna Co 1122 W Newport Ave Chicago 13 III 16
All Channel Products Corp 47-39 49 St Woodside 77 NY 10	Corbin Corp	Hudson American Div
47-39 49 St Woodside 77 NY 10 Alpar Mfg Corp	5419 56 Pl Riverdale Md 2-5 Cossor (Canada) Ltd	25 W 43 St New York 36 NY 10
2910 Spring St 2-3-6-7-11-17	301 Windsor St	Gy-Gain Antenna Products Co 249 N 48 St Lincoln Nebr 2-17-24
Redwood City Calif 19-20-21-25 Alpha Erection Corp	Halifax Nova Scotia Canada 21 Craig Systems Inc	IE Mfg
210 E Main St W Branch Iowa 25	90 Holten St Danvers Mass 25	325 N Hoyne Ave Chicago 12 Ill 2
Amerac Inc 116 Topsfield Rd Wenham Mass	90 Holten St Danvers Mass 25 Crown Controls Co 40 S Washington St New Bremen Ohio 24	325 N Hoyne Ave Chicago 12 111 2 Illumitronic Eng'g Co 680 E Taylor Ave Sunnyvale Calif 2-6

Industrial Development Eng'g Assoc 7900 Pendleton Pike	Premier Instrument Corp	Thomas Mold & Die Co
Indianapolis Ind	52 W Houston St New York 12 NY 11 Prodelin Inc	Henry & Grant St Wooster Ohio 25 Torngren Co C W
Industrial Products Co Div Danbury- Knudsen	307 Bergen Ave 3-4-5-6-11-12-13 Kearny NJ 15-19-20-21-25	236 Pearl St Somerville 45 Mass 11-12-13-23 Tower Construction Co
Box 148 Danbury Conn 12 Industrial Radio Corp	Production Research Corp	2700 Hawkeye Dr Sioux City 2 Iowa 11-23-25
428 N Parkside Ave Chicago 44 Ill 21 Insuline Corp of America	Pye Canada Ltd	Transco Products Inc 12210 Nebraska Ave Los Angeles 25 Calif 11
186 Granite St	82 Northline Rd 2-4-6-7 Toronto 16 Ontario Canada 10-12-16-20	Tri-Ex Tower Corp 127 E Inyo St Tulare Calif 25
Manchester NH 12-16-19-20-21-23 I-T-E Circuit Breaker Co Special	Pye Telecommunications Ltd	Trilsch Inc John D
Products Div 601 E Erie Ave	Cambridge England 21-22-23	P O Box 14201 Houston 21 Texas 23-25 Truscon Steel Div Republic Steel Corp
JaMac Products Co	Q-Line Mfg Corp 1562 61 St 1-2-5-6-7-10	Youngstown 1 Ohio 25 TV Hardware Mfg Co Div Textron Inc
8845 N E Sandy Blvd 1-2-3-4-6-7-10 Portland 20 Ore 15-16-20-21	1562 61 St 1-2-5-6-7-10 Brooklyn 19 NY 16-20-21 Radiation Eng'g Labs	400 S Wyman St Rockford III 16
Portland 20 Ore 15-16-20-21 Jarvis Electronics Corp 1140 Cherry St Winnetka III 5	main be maynatu mass 1-0-1-11-14	Universal Products Eng'g Co 4100 Taylor Ave Racine Wis 2
Jerrold Electronics Corp	Radiation Inc P O Box 37 Melbourne Fla 1	Uniwave Inc 2 Marine St Farmingdale NY 20-21-23-24
23 & Chestnut Sts Philadelphia 3 Pa 16 JFD Mfg Co	Radio City Products Co Centre & Glendale Sts Easton Pa 5	Video Industries Co
6101-16 Ave Brooklyn 4 NY 16 Johnson Co E F	Radio Corp of America	Virginia Electronics Co
Waseca Minn 2-6-7-17-24 Johnson Electronics Inc	Radio Merchandise Sales Inc	River Rd & B & O R R Washington 16 DC
521 Elwell St Orlando Fla 9	2016 Bronxdale Ave Bronx 62 NY 20-21-24 Raytheon Mfg Co	Walworth Co 89 Union St Mineola NY 11
J-V-M Eng'g Co 4633 S Lawndale Ave Lyons Ill 11-13	100 River St Waltham 54 Mass 10-11 Raytheon Mfg Co Commercial Equip Div	Walworth Co
Kennedy & Co D S 155 King St Cohasset Mass 6-10-11-13-20	100 River St Waltham 54 Mass 13	Ward Products Corp
K-W Eng'g Works	Reeves Instrument Corp 215 E 91 St New York 28 N Y 13	1148 Euclid Ave Cleveland 15 Ohio 2-6-7-12 Waveguide Inc
3145-A N 48 St Milwaukee 16 Wis 12 Lambda-Pacific Eng'g Inc	Regency Div IDEA Inc 7900 Pendleton Pike Indianapolis Ind 21	14837 Oxnard St Van Nuys Calif 11 Waveline Inc
14725 Arminta St Van Nuys Calif 11 LaPointe Industries Inc	Rich Electronics Inc 212 N W 8 Avc Miami 36 Fla 4-10-16-21-24	Passaic Ave Caldwell NJ 11-13
155 W Main St Rockville Conn 2-4-24 Lear Inc	Rohn Mf Co	Webster Mfg Co 242 Shoreline Hwy
3171 S Bundy Drive	116 Limestone Bellevue Peoria 5 III 25 Roflan Co	Mill Valley Calif 2-6-10-12-21 Westbury Electronics Inc
Santa Monica Calif 1-5-8-20-21 Leitch Eng'g Corp	Topsfield Mass Rollan Electric Co	300 Shames Dr Westbury NY 11-16-18 Western Coil & Electrical Co
326 Lincoln St Manchester NH 6-12-20-21 Lieco Inc	8233 S Princeton Ave Chicago 20 Ill 8-9-16	215 State St Racine Wis 2
3610 Oceanside Rd Oceanside LI NY 11-13	Rostan Corp 5660 59 St Maspeth 78 NY 25	Wheeler Labs Inc 122 Cutter Mill Rd Great Neck NY 11-20-21
Lysco Mfg Co 1401 Clinton St Hoboken NJ 2-7-10	S & A Electronics 1025 Nevada St Toledo 5 Ohio 16	White & Son James L 374 Verona Ave Newark 4 NJ 6-19-20-21
Mackay Radio & Telegraph Co Marine Div	Sage Labs Inc	Winder Aircraft Corp of Florida
133 Terminal Ave Clark NJ 10 Mack Electronics Div Inc	30 Guinan St Waltham 54 Mass 11-20-21 Sanders Associates	P O Box 2397 Drane Field Lakeland Fla 1-23
Sub Mack Trucks Inc	95 Canal St Nashua NH 1-11-18 Scala Radio Co	Wind Turbine Co E Market St & P R R
1120 S 2 St Plainfield NJ 11 Mark Products Co	2814 19 St 6-7-12-15	W Chester Pa 3-6-47-20-21-24-25 WRL Electronics Inc
6412 W Lincoln Ave 1-2-6-7-11-12 Morton Grove III 14-15-20-21	Seismograph Service Corp	3415 W Broadway Council Bluffs Iowa 2
Master Mobile Mounts Inc	6200 E 41 St Tulsa 1 Okla 8 Servo Corp of America	Zenith Plastics Co 1600 W 135 St Gardena Calif 11-12
1306 Bond St Los Angeles 15 Calif 6-7-12	0000 7 1 11	Z & W Mfg Corp
Mathis Co G E	2020 Jericho Turnpike New Hyde Park NY	
6100 S Oak Park Ave Chicago 38 Ill 23-25	New Hyde Park NY 5 Simplex Equipment Corp	30240 Lakeland Blvd Wickliffe Ohio 1-7-10
6100 S Oak Park Ave Chicago 38 Ill 23-25 Maxson Corp W L 475 10 Ave New York 18 NY 1-11	New Hyde Park NY  Simplex Equipment Corp  55 La France Ave Bloomfield NJ  Snyder Mfg Co	30240 Lakeland Blvd Wickliffe Ohio 1-7-10
6100 S Oak Park Ave Chicago 38 Ill 23-25 Maxson Corp W L 475 10 Ave New York 18 NY 1-11 Measurement Eng'g Ltd 232 John St Arnprior Ont Can 6-7-21	New Hyde Park NY Simplex Equipment Corp 55 La France Ave Bloomfield NJ 18	30240 Lakeland Blvd Wickliffe Ohio 1-7-10 7—ANTENNAS, HOME
6100 S Oak Park Ave Chicago 38 III 23-25  Maxson Corp W L 475 10 Ave New York 18 NY 1-11  Measurement Eng'g Ltd 232 John St Arnprior Ont Can  Medal Mfg Co P O Box 292 Sharon Pa 16-20-21	New Hyde Park NY Simplex Equipment Corp 55 La France Ave Bloomfield NJ Snyder Mfg Co 22 & Ontario Sts Philadelphia 40 Pa Spaulding Products Co 550 W Barner St Frankfort Ind 25	30240 Lakeland Blvd Wickliffe Ohio 1-7-10 7—ANTENNAS, HOME Antennas, amateur
6100 S Oak Park Ave Chicago 38 III 23-25  Maxson Corp W L 475 10 Ave New York 18 NY 1-11  Measurement Eng'g Ltd 232 John St Arnprior Ont Can  Medal Mfg Co P O Box 292 Sharon Pa 16-20-21  Meridian Metalcraft Inc	New Hyde Park NY Simplex Equipment Corp 55 La France Ave Bloomfield NJ 18 Snyder Mfg Co 22 & Ontario Sts Philadelphia 40 Pa 12 Spaulding Products Co 550 W Barner St Frankfort Ind 25 Specific Electronics 570 W Woodbury Rd Altadena Calif 2	30240 Lakeland Blvd Wickliffe Ohio 1-7-10         7—ANTENNAS, HOME         Antennas, amateur
6100 S Oak Park Ave Chicago 38 Ill 23-25  Maxson Corp W L 475 10 Ave New York 18 NY 1-11  Measurement Eng'g Ltd 232 John St Arnprior Ont Can 6-7-21  Medal Mfg Co P O Box 292 Sharon Pa 16-20-21  Meridian Metalcraft Inc 8739 S Millergrove Dr Whittier Calif 11  Merkle Korff Gear Co	New Hyde Park NY Simplex Equipment Corp 55 La France Ave Bloomfield NJ 18 Snyder Mfg Co 22 & Ontario Sts Philadelphia 40 Pa 12 Spaulding Products Co 550 W Barner St Frankfort Ind 25 Specific Electronics 570 W Woodbury Rd Altadena Calif Specific Products Co 14515 Dickens St Sherman Oaks Calif 2	30240 Lakeland Blvd Wickliffe Ohio 1-7-10 7—ANTENNAS, HOME Antennas, amateur
6100 S Oak Park Ave Chicago 38 Ill 23-25  Maxson Corp W L 475 10 Ave New York 18 NY 1-11  Measurement Eng'g Ltd 232 John St Arnprior Ont Can 6-7-21  Medal Mfg Co P O Box 292 Sharon Pa 16-20-21  Meridian Metalcraft Inc 8739 S Millergrove Dr Whittier Calif 11  Merkle Korff Gear Co 213 N Morgan St Chicago 7 Ill 24  Metal Fabricators Corp	New Hyde Park NY Simplex Equipment Corp 55 La France Ave Bloomfield NJ 18 Snyder Mfg Co 22 & Ontario Sts Philadelphia 40 Pa 12 Spaulding Products Co 550 W Barner St Frankfort Ind 25 Specific Electronics 570 W Woodbury Rd Altadena Calif 2 Specific Products Co 14515 Dickens St Sherman Oaks Calif 2 Sperry Gyroscope Co Div Sperry Rand Corp	30240 Lakeland Blvd Wickliffe Ohio 1-7-10  7—ANTENNAS, HOME  Antennas, amateur
6100 S Oak Park Ave Chicago 38 III 23-25  Maxson Corp W L 475 10 Ave New York 18 NY 1-11  Measurement Eng'g Ltd 232 John St Arnprior Ont Can 6-7-21  Medal Mfg Co P O Box 292 Sharon Pa 16-20-21  Meridian Metalcraft Inc 8739 S Millergrove Dr Whittier Calif  Merkle Korff Gear Co 213 N Morgan St Chicago 7 III 24	New Hyde Park NY  Simplex Equipment Corp  55 La France Ave Bloomfield NJ  Snyder Mfg Co  22 & Ontario Sts Philadelphia 40 Pa  Spaulding Products Co  550 W Barner St Frankfort Ind  25  Specific Electronics  570 W Woodbury Rd Altadena Calif  Specific Products Co  14515 Dickens St Sherman Oaks Calif  Sperry Gyroscope Co Div Sperry Rand Corp  Great Neck NY  Spinform Inc	30240 Lakeland Blvd Wickliffe Ohio 1-7-10         7—ANTENNAS, HOME         Antennas, amateur 1         Antennas, auto radio 2         Antennas, home all-wave 3         Antennas, indoor FM & TV 4         Antennas, loop 5         Antennas, loop-core 6
6100 S Oak Park Ave Chicago 38 Ill 23-25  Maxson Corp W L 475 10 Ave New York 18 NY 1-11  Measurement Eng'g Ltd 232 John St Arnprior Ont Can 6-7-21  Medal Mfg Co P O Box 292 Sharon Pa 16-20-21  Meridian Metalcraft Inc 8739 S Millergrove Dr Whittier Calif 11  Merkle Korff Gear Co 213 N Morgan St Chicago 7 Ill 24  Metal Fabricators Corp 73 Pond St Waltham 54 Mass 25  Miller Co J W 5917 S Main St Los Angeles 3 Calif 8-9	New Hyde Park NY  Simplex Equipment Corp  55 La France Ave Bloomfield NJ  18  Snyder Mfg Co  22 & Ontario Sts Philadelphia 40 Pa  12  Spaulding Products Co  550 W Barner St Frankfort Ind  25  Specific Electronics  570 W Woodbury Rd Altadena Calif  2 Specific Products Co  14515 Dickens St Sherman Oaks Calif  2 Sperry Gyroscope Co Div Sperry Rand Corp  Great Neck NY  1-10-11  Spinform Inc  65 Mechanic St Attleboro Mass 10-11-13-15-23  Stainless Inc	30240 Lakeland Blvd Wickliffe Ohio 1-7-10  7—ANTENNAS, HOME  Antennas, amateur
6100 S Oak Park Ave Chicago 38 III 23-25  Maxson Corp W L 475 10 Ave New York 18 NY 1-11  Measurement Eng'g Ltd 222 John St Arnprior Ont Can 6-7-21  Medal Mfg Co P O Box 292 Sharon Pa 16-20-21  Meridian Metalcraft Inc 8739 S Millergrove Dr Whittier Calif 11  Merkle Korff Gear Co 213 N Morgan St Chicago 7 III 24  Metal Fabricators Corp 73 Pond St Waltham 54 Mass 25  Miller Co J W 5917 S Main St Los Angeles 3 Calif 8-9  Miller Electronics 2840 Naomi St Burbank Calif 16	New Hyde Park NY Simplex Equipment Corp 55 La France Ave Bloomfield NJ 18 Snyder Mfg Co 22 & Ontario Sts Philadelphia 40 Pa 12 Spaulding Products Co 550 W Barner St Frankfort Ind 25 Specific Electronics 570 W Woodbury Rd Altadena Calif 2 Specific Products Co 14515 Dickens St Sherman Oaks Calif 2 Sperry Gyroscope Co Div Sperry Rand Corp Great Neck NY 1-10-11 Spinform Inc 65 Mechanic St Attleboro Mass 10-11-13-15-23 Stainless Inc 3 St 3-4-6-11-12-13-14-15 North Wales Pa 16-18-19-20-21-25	30240 Lakeland Blvd Wickliffe Ohio 1-7-10         7—ANTENNAS, HOME         Antennas, amateur 1         Antennas, auto radio 2         Antennas, home all-wave 3         Antennas, indoor FM & TV 4         Antennas, loop 5         Antennas, loop-core 6         Antennas, master community 7         Antennas, outdoor FM & TV 8         Antennas, telescopic 9
6100 S Oak Park Ave Chicago 38 Ill 23-25  Maxson Corp W L 475 10 Ave New York 18 NY 1-11  Measurement Eng'g Ltd 232 John St Arnprior Ont Can 6-7-21  Medal Mfg Co P O Box 292 Sharon Pa 16-20-21  Meridian Metalcraft Inc 8739 S Millergrove Dr Whittier Calif 11  Merkle Korff Gear Co 213 N Morgan St Chicago 7 Ill 24  Metal Fabricators Corp 73 Pond St Waltham 54 Mass 25  Miller Co J W 5917 S Main St Los Angeles 3 Calif 8-9  Miller Electronics 2840 Naomi St Burbank Calif Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 11	New Hyde Park NY Simplex Equipment Corp 55 La France Ave Bloomfield NJ 18 Snyder Mfg Co 22 & Ontario Sts Philadelphia 40 Pa 12 Spaulding Products Co 550 W Barner St Frankfort Ind 25 Specific Electronics 570 W Woodbury Rd Altadena Calif 2 Specific Products Co 14515 Dickens St Sherman Oaks Calif 2 Sperry Gyroscope Co Div Sperry Rand Corp Great Neck NY 1-10-11 Spinform Inc 65 Mechanic St Attleboro Mass 10-11-13-15-23 Stainless Inc 3 St 3-4-6-11-12-13-14-15 North Wales Pa 16-18-19-20-21-25 Standard Coil Products Co	30240 Lakeland Blvd Wickliffe Ohio       1-7-10         7—ANTENNAS, HOME         Antennas, amateur       1         Antennas, auto radio       2         Antennas, home all-wave       3         Antennas, indoor FM & TV       4         Antennas, loop       5         Antennas, loop-core       6         Antennas, master community       7         Antennas, outdoor FM & TV       8         Antennas, telescopic       9         Antennas, UFH       10
6100 S Oak Park Ave Chicago 38 III 23-25  Maxson Corp W L 475 10 Ave New York 18 NY 1-11  Measurement Eng'g Ltd 232 John St Arnprior Ont Can 6-7-21  Medal Mfg Co P O Box 292 Sharon Pa 16-20-21  Meridian Metalcraft Inc 8739 S Millergrove Dr Whittier Calif 11  Merkle Korff Gear Co 213 N Morgan St Chicago 7 III 24  Metal Fabricators Corp 73 Pond St Waltham 54 Mass 25  Miller Co J W 5917 S Main St Los Angeles 3 Calif 8-9  Miller Electronics 2840 Naomi St Burbank Calif 16  Model Eng'g & Mfg Inc	New Hyde Park NY Simplex Equipment Corp 55 La France Ave Bloomfield NJ 18 Snyder Mfg Co 22 & Ontario Sts Philadelphia 40 Pa 12 Spaulding Products Co 550 W Barner St Frankfort Ind 25 Specific Electronics 570 W Woodbury Rd Altadena Calif 2 Specific Products Co 14515 Dickens St Sherman Oaks Calif 2 Sperry Gyroscope Co Div Sperry Rand Corp Great Neck NY 1-10-11 Spinform Inc 65 Mechanic St Attleboro Mass 10-11-13-15-23 Stainless Inc 3 St 3-4-6-11-12-13-14-15 North Wales Pa 16-18-19-20-21-25 Standard Coil Products Co 2085 N Hawthorne Ave Melrose Park III 8-9 Standayck Winding Co	30240 Lakeland Blvd Wickliffe Ohio 1-7-10         7—ANTENNAS, HOME         Antennas, amateur 1         Antennas, auto radio 2         Antennas, home all-wave 3         Antennas, indoor FM & TV 4         Antennas, loop 5         Antennas, loop-core 6         Antennas, master community 7         Antennas, outdoor FM & TV 8         Antennas, telescopic 9
6100 S Oak Park Ave Chicago 38 III 23-25  Maxson Corp W L 475 10 Ave New York 18 NY 1-11  Measurement Eng'g Ltd 232 John St Arnprior Ont Can 6-7-21  Medal Mfg Co P O Box 292 Sharon Pa 16-20-21  Meridian Metalcraft Inc 8739 S Millergrove Dr Whittier Calif 11  Merkle Korff Gear Co 213 N Morgan St Chicago 7 III 24  Metal Fabricators Corp 73 Pond St Waltham 54 Mass 25  Miller Co J W 5917 S Main St Los Angeles 3 Calif 8-9  Miller Electronics 2840 Naomi St Burbank Calif 16  Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 11  Mosley Electronics Inc 8622 St Charles Rock Rd St Louis 14 Mo 2-6-17	New Hyde Park NY Simplex Equipment Corp 55 La France Ave Bloomfield NJ 18 Snyder Mfg Co 22 & Ontario Sts Philadelphia 40 Pa 12 Spaulding Products Co 550 W Barner St Frankfort Ind 25 Specific Electronics 570 W Woodbury Rd Altadena Calif 2 Specific Products Co 14515 Dickens St Sherman Oaks Calif 2 Sperry Gyroscope Co Div Sperry Rand Corp Great Neck NY 1-10-11 Spinform Inc 65 Mechanic St Attleboro Mass 10-11-13-15-23 Stainless Inc 3 St 3-4-6-11-12-13-14-15 North Wales Pa 16-18-19-20-21-25 Standard Coil Products Co 2085 N Hawthorne Ave Melrose Park Ill 8-9 Standwyck Winding Co 137-161 Walsh Ave Newburgh NY 3-9 Stavid Eng'g Inc	30240 Lakeland Blvd Wickliffe Ohio 1-7-10
6100 S Oak Park Ave Chicago 38 Ill 23-25  Maxson Corp W L 475 10 Ave New York 18 NY 1-11  Measurement Eng'g Ltd 232 John St Arnprior Ont Can 6-7-21  Medal Mfg Co P O Box 292 Sharon Pa 16-20-21  Merdian Metalcraft Inc 8739 S Millergrove Dr Whittier Calif 11  Merkle Korff Gear Co 213 N Morgan St Chicago 7 Ill 24  Metal Fabricators Corp 73 Pond St Waltham 54 Mass 25  Miller Co J W 5917 S Main St Los Angeles 3 Calif 8-9  Miller Electronics 2840 Naomi St Burhank Calif 16  Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 11  Mosley Electronics Inc 8622 St Charles Rock Rd St Louis 14 Mo 2-6-17  Narda Corp 160 Herricks Rd Mineola NY 11	New Hyde Park NY Simplex Equipment Corp 55 La France Ave Bloomfield NJ 18 Snyder Mfg Co 22 & Ontario Sts Philadelphia 40 Pa 12 Spaulding Products Co 550 W Barner St Frankfort Ind 25 Specific Electronics 570 W Woodbury Rd Altadena Calif 2 Specific Products Co 14515 Dickens St Sherman Oaks Calif 2 Sperry Gyroscope Co Div Sperry Rand Corp Great Neck NY 1-10-11 Spinform Inc 65 Mechanic St Attleboro Mass 10-11-13-15-23 Stainless Inc 3 St 3 -4-6-11-12-13-14-15 North Wales Pa 16-18-19-20-21-25 Standard Coil Products Co 2085 N Hawthorne Ave Melrose Park III 8-9 Standwyck Winding Co 137-151 Walsh Ave Newburgh NY Stavid Eng'g Inc U S Route 22 Plainfield NJ 15twart Warner Electronics Div	30240 Lakeland Blvd Wickliffe Ohio 1-7-10  7—ANTENNAS, HOME  Antennas, amateur 1 Antennas, auto radio 2 Antennas, home all-wave 3 Antennas, indoor FM & TV 4 Antennas, loop 5 Antennas, loop 5 Antennas, loop-core 6 Antennas, master community 7 Antennas, outdoor FM & TV 8 Antennas, telescopic 9 Antennas, telescopic 9 Antennas, UFH 10 Antennas, VHF 11 Rotators 12
6100 S Oak Park Ave Chicago 38 III 23-25  Maxson Corp W L 475 10 Ave New York 18 NY 1-11  Measurement Eng'g Ltd 232 John St Arnprior Ont Can 6-7-21  Medal Mfg Co P O Box 292 Sharon Pa 16-20-21  Medial Mfg Co P O Box 292 Sharon Pa 16-20-21  Meridian Metalcraft Inc 8739 S Millergrove Dr Whittier Calif 11  Merkle Korff Gear Co 213 N Morgan St Chicago 7 III 24  Metal Fabricators Corp 73 Pond St Waltham 54 Mass 25  Miller Co J W 5917 S Main St Los Angeles 3 Calif 8-9  Miller Bectronics 2840 Naomi St Burbank Calif 16  Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 11  Mosley Electronics Inc 8622 St Charles Rock Rd St Louis 14 Mo 2-6-17  Narda Corp 160 Herricks Rd Mineola NY 11  Nichols Products Co 325 W Main St Moorestown NJ 11	New Hyde Park NY Simplex Equipment Corp 55 La France Ave Bloomfield NJ 18 Snyder Mfg Co 22 & Ontario Sts Philadelphia 40 Pa 12 Spaulding Products Co 550 W Barner St Frankfort Ind 25 Specific Electronics 570 W Woodbury Rd Altadena Calif 2 Specific Products Co 14515 Dickens St Sherman Oaks Calif 2 Specific Products Co 14516 Dickens St Sherman Oaks Calif 2 Sperry Gyroscope Co Div Sperry Rand Corp Great Neck NY 1-10-11 Spinform Inc 65 Mechanic St Attleboro Mass 10-11-13-15-23 Stainless Inc 3 St 3-4-6-11-12-13-14-15 North Wales Pa 16-18-19-20-21-25 Standard Coil Products Co 2085 N Hawthorne Ave Melrose Park Ill 8-9 Standwyck Winding Co 137-151 Walsh Ave Newburgh NY Stavid Eng'g Inc U S Route 22 Plainfield NJ 1 Stewart Warner Electronics Div 1300 N Kostner Ave	30240 Lakeland Blvd Wickliffe Ohio 1-7-10
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Apparatus Development Co	Mosley Electronics Inc	Tricraft Products Corp 1535 N Ashland Ave
115 Main St Wethersfield 9 Conn 8 A R F Products Inc	8622 St Charles Rock Rd St Louis 14 Mo 1	Chicago 22 Ill 4-8-10-11
7627 Lake St River Forest Ill 7	Park Products Co	Tri-Ex Tower Corp 127 E Inyo St Tulare Calif 13
Artted Co 367 Worthington St Springfield 3 Mass 5-6	6900 Wade Park Ave Cleveland 3 Ohio 5-6	TV Hardware Mfg Co Div Textron Inc
Automatic Coil Co	Parker Metal Goods Co 85 Prescott St Worcester 5 Mass 9	400 S Wyman St Rockford Ill 2-10-11 Universal Products Eng'g Co
415 Bedford Ave Brooklyn 11 N Y 5-6 Bassett Inc Rex	85 Prescott St Worcester 5 Mass 9 Peerless Products Industries	4100 Taylor Ave Racine Wisc 1-13
1314 N E 17 Ct Ft Lauderdale Fla 2	812 N Pulaski Rd	Vesto Co 20 & Clay Sts N Kansas City 16 Mo 13
Bestcraft Products Co 626 Broadway New York 12 NY 3-4-5-10-11	Chicago 51 Ill 4-8-9-10-11 Penn Transformer Corp	Video Industries Co
Brach Mfg Corp	E Bishop St Ext	242 Madison Ave Port Chester NY 4-8-10-11
200 Central Ave 1-2-3-4-8 Newark 3 NJ 9-10-11-12	Bellefonte Pa 6 Philco Corp Accessory Div	Vokar Corp 7300 Huron River Dr
Browning Labs Inc	"A" & Allegheny Ave	Dexter Mich 6
750 Main St Winchester Mass 3-4	Philadelphia 34 Pa 2-4-8-11-12	Walsco Electronics Mfg Co 100 W Green St Rockford III 3-6-8-10-11
Budd Stanley Co 43-01 22 St Long Island City 1 NY 7	Philson Mfg Co 60 Sackett St Brooklyn 31 NY 1-2-3-8-9	Ward Products Corp
Calbest Electronics Co	Premax Products Div Chisholm-Ryder Co	1148 Euclid Ave Cleveland 15 Ohio 1-2-8
4801 Exposition Blvd Los Angeles 16 Calif 5-6	College & Highland Aves Niagara Falls NY 1	Cleveland 15 Ohio 1-2-8 Webster Mfg Co
C B C Electronics Co	Pve Canada Ltd	242 Shoreline Hwy
2601 N Howard St Philadelphia 33 Pa 4	82 Northline Rd Toronto 16	Mill Valley Calif 1-2 Welco Mfg Co
Channel Master Corp Ellenville NY 4-10-11-12-13	Ontario Canada Pye Telecommunications Ltd	225 S 3 St Burlington Iowa 3-8-10-11
Clear Beam Antenna Corp	Newmarket Rd Cambridge England 2-3	Westbury Electronics Inc 300 Shames Dr Westbury NY 7
21341 Roscoe Blvd Canoga Park Calif 3-4-8-9-10-11	Q L C Corp Flocktown Rd Long Valley NJ 6	Western Coil & Electrical Co
Coilcraft Inc	Q-Line Mfg Corp	215 State St Racine Wisc 1-13
Cary III 5-6 Columbia Products Co	1562 61 St Brooklyn 19 NY 1-2-3-4-5-8-9-10-11	Wind Turbine Co E Market St & PRR W Chester Pa 13
6625 Shakespeare Rd Columbia SC 2	Radiart Corp	Wingard Co 3000 Scotten Blvd
Consolidated Wire & Associated Cos 1635 S Clinton St Chicago 16 Ill 3	3455 Vega Ave	Burlington Iowa 3-8-10-11
1635 S Clinton St Chicago 16 Ill 3 Cornell-Dubilier Electric Corp	Cleveland 13 Ohio 2-8-10-11-12 Radio Corp of America	
333 Hamilton Blvd	Camden 2 NJ 7-13	8-ANTENNA ACCESSORIES
S Plainfield NJ 1-2-3-4-8-10-11-12 Crown Controls Co	Radio Industries Inc 5225 N Ravenswood Ave Chicago 25 III 6	
40 S Washington St New Bremen Ohio 12	Radio Merchandise Sales Inc	Assemblies, HF
Electrend Products Corp Box 110 St Joseph Mich 2-3	2016 Bronxdale Ave Bronx 62 NY 4-8-10-11	Baluns 2
Box 110 St Joseph Mich 2-3 El-Rad Mfg Co	Radion Corp 1130 W Wisconsin Ave	Clamps, ground 3
2800 W Cullom Ave Chicago 18 III 5-6	Chicago 14 III 4-9-10-11	Coupling & phasing units 4
E-Z Way Towers Inc 5901 E Broadway Tampa 5 Fla 1-13	Ramsey Radio & TV Co	Diplexers 5
Federal Telephone & Radio Co Div T&T	925 St Louis Ave Vandalia III 13 Rohn Mfg Co	Dummy loads 6
100 Kingsland Rd Clifton NJ 4	116 Limestone Bellevue	Duplexers / Feed systems 8
Finney Co 34 W Interstate St	Peoria 5 Ill Rollan Electric Co	Hardware 9
Bedford Ohio 1-3-4-5-6-8-10-11	8233 S Princeton Ave Chicago 20 III 5-6	Heaters
Frederick Tool & Eng'g Corp 414 Pine Ave Frederick Md 1	Rostan Corp	Housing
Fretco Inc	5660 59 St Maspeth 78 NY	Insulators 12
406 W Craig St Pittsburgh 13 Pa 1-3-4-5-8-9-10-11	Saxton Products Inc	Isolation units
Pittsburgh 13 Pa 1-3-4-5-8-9-10-11 G-C Electronics Div General Cement-	1661 Boone Ave New York 60 NY 9 Scala Radio Co	Lenses, R-F 15
Textron	2814 19 St San Francisco 10 Calif 7-8	Lightning arresters 14
400 S Wyman St Rockford Ill 2 Gavitt Wire & Cable Co	Snyder Mfg Co	Links
Central St Brookfield Mass 5-6	22 & Ontario Sts Philadelphia 40 Pa 2-3-4-8-9-10-11	Masts 17
Gee-Lar Mfg Co 418 S Wyman St Rockford III 2-3	South River Prods Co	Monitors
General Bronze Corp	377 Turnpike South River NJ 13 Spaulding Products Co	Monitors, R-F power 19
711 Stewart Ave Garden City NY 2-3-4-8-12	550 W Barner St Frankfort Ind 13	Mounts 20 Multi-set couplers 21
General Cement Mfg Co Div Textron Inc 400 S Wyman St	Spencer-Kennedy Labs Inc 1320 Soldiers Field Rd Boston 35 Mass 7	Outlets
Rockford III 10-11	Spirling Products Co	Remote controls
General Coil Products Corp 43 Roselle St Mineola NY 5-6	Henrietta St & Duffy Ave	Spreaders, feeders 24
General Crystal Co	HICKSVIIIE LI NI	Springs, grounding 25
P O Box 9 Burlington Wis 1-3	Stainless Inc 3 St North Wales Pa 3-8-13	Switching equipment 26
Hi-Lo TV Antenna Corp 1122 W Newport Ave Chicago 13 III 4-8	Standard Coil Products Co	Tower lighting
Hy-Gain Antenna Products Co	2085 N Hawthorne Ave	Tuning units
249 N 48 St Lincoln Neb 1-11	Melrose Park Ill Stanwyck Winding Co	•
IE Mfg 325 N Hoyne Ave Chicago 12 Ill 1-4	137-151 Walsh Ave	Accurate Spring Mfg Co
Illumitronic Eng'g	Newburgh 141	3811 W Lake St Chicago 24 III 25
680 E Taylor Ave Sunnyvale Calif Insuline Corp of America	1300 Kostner Ave Chicago 51 Ill 10-11	Acme Electric Heating Co 1217 Washington St Boston 18 Mass 10
186 Granite St	Superex Electronics Corp	Adler Electronics Inc
Manchester NH 2-4-8-9-10-11 JaMac Products Co	Tabet Mfg Co	1 LeFevre Lane New Rochelle NY 4 Admittance Namco Corp
8845 NE Sandy Blvd	1336 Ballentine Blvd Norfolk 12 Va 13	Marine St Farmingdale LI NY 2-6-7-26
Portland 20 Ore 3-4-7-8-10-11	Teletenna Co P.O. Roy 7 Lanaz Ind 1-8-10-11	Aeroflex Labs
JFD Mfg Co 6101-16 Ave Brooklyn 4 NY 2-4-8-10-11-12	1 O Dox 1 Dapan on	34-06 Skillman Ave Long Island City 1 NY 20
Johnson Co	1 Taco St Sherburne NY 1-3-4-7-8-10-11	Aerolux Light Corp
E F Waseca Minn 1 Johnson Electronics Inc	Tele-vae rowers rice	653 11 Ave New York 36 NY Aerovox Corp Crowley Div
521 Elwell St Orlando Fla 5-6		1 Central Ave W Orange NJ 6
Kay-Townes Antenna Co	N Murray Ridge Rd	Ainslie Corp
1511 Dean Ave Rome Ga 8-11 LaPointe Industries Inc	Elyria Ohio 3-4-8-10-11	312 Quincy Ave Quincy 69 Mass 8-11-14-20 Aircom Inc
155 W Main St	Tel-Rad Electronics Corp 73-20 Trotting Course Lane	1209 E Grand St Elizabeth NJ 6
Rockville Conn 1-3-4-8-10-11-12 Lab-Tronics Inc	Glendale LI 27 NY 5-6	Air Transport Mfg Co 1114 N Sycamore Ave
3656 N Lincoln Ave Chicago 13 Ill 4	Telrex Labs Ashury Park NJ 4-7-8-10-11	Los Angeles 38 Calif 11-17-20
Leitch Eng'g Corp	1130414	Airtron Inc
326 Lincoln St Manchester NH 10-11 Lynmar Engineers Inc	417 S 10 St Quincy III 1-3-7-8-11	1101 W Elizabeth Ave Linden NJ 5-7-9 Alford Mfg Co
1432 N Carlisle St Philadelphia 21 Pa 7-8	Tenna Mfg Co	299 Atlantic Ave Boston 10 Mass 5
Lysco Mfg Co 1401 Clinton St Hoboken NJ	7580 Garneld Blvd	Alprodco Inc PO Box 4974 Memphis Tenn 17
Macon Electronics	Tevco Insulated Wire	American Air Filter Co
Box 56 Warrensburg III 3-8-10-11		215 Central Ave Louisville 8 Ky 10
Medal Mfg Co PO Box 292 Sharon Pa 3-4-8-10-11	Titchener & Co E H 67 Clinton St Binghamton NY	American Communications Corp 280 Broadway New York 17 NY 1-2
Miller Co J W	Towers Corp	American Electronic Laboratories
5917 S Main St Los Angeles 3 Calif 5-6	PO Box 345 Cleveland 27 Ohio 8-13 Trio Mfg Co	121 N 7 St Philadelphia 6 Pa 2-4 American Electronics Co
Miller Electronics 2840 Naomi St Burbank Calif 2-4-8-10-1		1203 Bryant Ave New York 59 NY 2-7-21

Defen Data Brachine & Foundry Co	Coaxial Connector Co	
Defense Products Group 1101 N Royal St Alexandria Va 9-11-18	37 N 2 Ave Mt Vernon NY 1-6-7	Erie Resistor Corp 644 W 12 St Erie 6 Pa 1-15
American Microwave Corp	Collings Radio Co	644 W 12 St Erie 6 Pa 1-15 Erwood Inc
11/04 Vose St N Hollywood C-1:6	855 35 St NE Cedar Rapids Iowa 2-19-23-28	1770 W Berteau Ave Chicago 13 Ill 28
1830 S 54 Am Objection	Colman Tool & Machine Co	Federal Shockmount Corp 1060 Washington Ave New York 56 NY 20
Amplited Inc	1017 NE 3 Ave Amarillo Texas 2	1060 Washington Ave New York 56 NY 20 Fisher Scientific Co
342 W 40 St New York 18 NY 22	Colonial Insulator Co 945 Grant St Akron 11 Ohio 12	711 Forbes St Pittsburgh 22 Pa 10
17 Felton St. Walther St. 25	Communication Accessories Co	Fluorocarbon Products Inc Div US Gasket Co
Anchor Plastics Co	110 St & 71 Hwy Hickman Mills Mo 23	602 N 10 St Camden 1 NJ 12-22 Frequency Standards Inc
36-36 36 St Long Island City 6 NV 20	Conn Telephone & Electric Corp	P O Box 504 Asbury Park NJ 5-7
Anchor Products Co	70 Brittania St Meriden Conn 9 Consolidated Productions Inc	Fretco Inc
2712 W Montrose Ave Chicago 18 Ill 21 Andrew Antenna Corp	Broward Int'l Airport	406 N Craig St Pittsburgh 13 Pa 12
606 Beech St	Ft Lauderdale Fla	Gabriel Electronics Div Gabriel Co 135 Crescent Rd
Whithy Ontario Can 2579 11 17 96 97	Consolidated Wire & Associated Cos	Needham Heights 94 Mass 5-7-11-16-23
Andrew California Corp	1636 S Clinton St Chicago 16 111 12-15 Continental Electronics Mfg Co	Garde Mfg Co
941 E Marylind Ave 5-7-9-11-17- Claremont Calif 20.26-27.29	4212 S Buckner Blvd Dallas 27 Texas 2	588 Eddy St Providence 3 RI 12-15 Gates Radio Co
Andrew Corp 20-26-27-28	Corbin Corp	123 Hampshire St Quincy III 4-18-21
363 E 75th Chicago 19 III 7 97	5419 56 Pl Riverdale Md 2	Gee-Lar Mfg Co
Antiab Inc	Cornell-Dubilier Electric Corp 333 Hamilton Blvd S Plainfield NJ 15	418 S Wyman St Rockford Ill 3-9-12-15-20
4950 N High St Columbus 14 Ohio 19-20-23 Arlin Products Inc	Corning Glass Works	General Bronze Corp 711 Stewart Ave Garden City NY 5-7
13541 Auburn Ave Detroit 23 Mich	Corning NY 6	General Cement Mfg Co Div Textron Inc
Arvin industries Inc	Cox & Co 115 E 23 St	4400 S Wyman St Rockford Ill 3-9-12
Columbus Ind Atlas Precision Products Co	New York 10 NY	General Ceramics Corp
3801 Castor Ave	Crane Packing Co	Keasbey NJ 12 General Coil Products Corp
Philadelphia 24 Pa	6400 Oakton St Morton Grove III 12	43 Roselle St Mineola NY 1
Automatic Metal Products Corp	Crown Controls Co 40 S Washington St New Bremen Ohio 21	General Communication Co
323 Berry St Brooklyn 11 NY Automatic Methods Inc	Cutler-Hammer Inc	677 Beacon St Boston 15 Mass 5-19-26 General Electric Co Apparatus Sales Div
965 W Grand St Elizabeth NJ 8	315 N 12 St Milwaukee 1 Wisc 10	1 River Rd Schenectady 5 NY 10
Autron Engly Inc	Dallons Labs 5066 Santa Monica Blvd	General Precision Lab Inc
1254 W 6 St Los Angeles 17 Calif 8	Los Angeles 29 Calif 2	63 Bedford Rd Pleasantville NY 18
Avionics Ltd PO Box 200 Niagara-on-the-Lake	Dalmo Victor Co Div Textron Inc	General Radio Co 275 Massachusetts Ave
Untario Canada 91	1515 Industrial Way Belmont Calif 23	Cambridge 39 Mass 2
Barker & Williamson Inc	Dante Electric Mfg Co Bantam Conn 3	General RF Fittings Inc
Canal & Beaver Sts Bristol Pa	Deltime Inc 3	702 Beacon St Boston 15 Mass 1-6-7
Bristol Pa 1-2-6-12-16-19-28 Bell Aircraft Corp	608 Fayette Ave Mamaroneck NY 1	Gordon Enterprises 5362 N Cahuenga Blvd
PO Box 1 Buffalo 5 NY	Defiance Eng'g & Microwave Corp	N Hollywood Calif 14
Dernco Engineering Corp	Beverly Airport Beverly Mass 5-6-7-8 DeMornay-Bonardi Corp	Goslin Electric & Mfg Co
2320 S Tibbs Ave Indianapolis 41 Ind	780 S Arroyo Pkwy Pasadena Calif 6	2921 W Olive Ave Burbank Calif 1 Grinnell Co
Birnbach Radio Co	Detroit Controls Corp Norwood Controls Unit	260 W Exchange St Providence 1 RI 10
145 Hudson St New York 13 NV 3-0-12 15	934 Washington St Norwood Mass 18	Guild Electronics Inc
DIACO MIR CO	Diamond Antenna & Microwave Corp 7 North Ave Wakefield Mass 5-6-7-8-16-20	388 Broadway New York 13 NY 1-8
6541 Euclid Ave Cleveland 3 Ohio 3 Blaine Electronetics Inc	Diamond Power Specialty Corp	Hackensack Cable Corp 110 Orchard St Hackensack NJ 9
14757 Keswick St Van Nuws Colid	Lancaster Ohio 19	Hallett Mfg Co
Dionder-Tongue Laboratories	Dielectric Products Eng'g Co Raymond Me 2	1601 W Florence Inglewood Calif 1-3
9-25 Alling St Newark 2 NJ 2-18-21 Bogart Mfg Corp	Dittmore-Freimuth Corp	Hallicrafters Co 4401 W 5 Ave Chicago 24 Ill 5-7
315 Coimal Ct D 11	2517 E Norwich St Milwaukee 7 Wisc 6	4401 W 5 Ave Chicago 24 Ill 5-7 Hall-Scott Inc Electronics Div
Bolton Labs Inc	Dollin Corp	2950 N Ontario St Burbank Calif 17
W Main St Bolton Mass 2-5-6	636 S 21 St Irvington 11 NJ 9 Dossert Mfg Corp	Hancock Electronics Corp
Bowmar Instrument Corp 2415 Pennsylvania St	249 Huron St Brooklyn 62 NY 3	2553 Middlefield Rd Redwood City Calif 18 Hansen Electronics Co
Ft Wayne Ind	D & S Mfg Co	7117 Santa Monica Blvd
Brach Mfg Corp	424 Burk Ave Ridley Park Pa 7-9-17 Dwyer Eng'g Co	Los Angeles 46 Calif 2
200 Central Ave Newark 3 NJ 1 Breeze Corps	Pine St Ext Nashua NH 4	Harshaw Chemical Co 1945 E 97 St Cleveland 6 Ohio 10
700 Tibouts Assa TT.: 2 27	Eagle Electric Mfg Co	Harvey-Wells Electronics Inc
Brooks & Perking Inc	23-10 Bridge Plaza S	North St Southbridge Mass 18
1950 W Fort St Detroit 16 Mich 11-20	Long Island City 1 NY 3 Edgerton, Germeshausen & Grier	Heath Co
Bruno-New York Industries Corp 460 W 34 St New York 1 NY 19	160 Brookline Ave Boston 15 Mass 2	305 Territorial Rd Benton Harbor Mich 13 Hoover Electronics Co
Dudd Stanley Co	Electrend Products Corp	3640 Woodland Ave Baltimore 7 Md 6-7
43-01 22 St Long Island City 1 NV 7	Box 110 St Joseph Mich 20-22 Electrical Products Research & Development Co	Hughey & Phillips
Budelman Radio Corp 375 Fairfield Ave Stamford Conn	1206 Cherry St Toledo 4 Ohio 10	3300 N San Fernando Blvd Rurhank Calif 27
Duni Untical Co	Electric Hotpack Co	Burbank Calif iE Mfg
1009 Beech Ave Pittshumeh *2 De	Cottman Ave & Melrose St	325 N Hoyne Ave
Norwalk Conn	Philadelphia 35 Pa 22 Electric Regulator Corp	Chicago 12 III 3-11-12-17-20-25
Buss-Clement-Doughten & Associates	Pearl St Norwalk Conn 18	Ilg Electric Ventilating Co 2850 N Pulaski Rd Chicago 41 III 10
201 B Studio Hill Chester Springs Do 10	Electric Trading Co	Illumitronic Eng'g Co
234 Daboll St Davidson 5 Da	313 Canal St New York 13 NY 10 Electro-Flex Heat Inc	680 E Taylor Ave Sunnyvale Calif 2
234 Daboll St Providence 7 RI 1 Camera Equipment Co	83 Woodbine St Hartford 6 Conn 10	Industrial Radio Corp 428 N Parkside Ave Chicago 44 III 18
315 W 43 St New York 36 NV	Electro Impulse Lab Inc	Insuline Corn of America
Canadian Aviation Electronics Ltd	208 River St Red Bank NJ 6-19 Electrola Inc	186 Granite St Manchester NH 9-11-12-20
St Laurent Ourban G	7517 N Clark St Chicago 26 III 23	International Research & Development Corp
St Laurent Quebec Canada 2-23 Canoga Corp	Electromode Div Commercial Contro's Corp	797 Thomas Lane Columbus 16 Ohio 18 Isolantite Mfg Corp
5955 Sepulveda Blvd Van Nuvs Colie 7	45 Crouch St Rochester 3 NY 10	Warren Ave Stirling NJ 12
Capps & Co	Electronic Specialty Co 5121 San Fernando Rd	I-T-E Circuit Breaker Co Special Products Div
20 Addison Pl Valley Stream LI NY 10 Centralab Div Globe Union Inc	Los Angeles 39 Calif 2-5	601 E Erie Ave Philadelphia 34 Pa 5-6-7-20-26
900 E Keefe Ave Milwaukoo t Wi 00	Elm Labs	Philadelphia 34 Pa 5-6-7-20-26 JaMao Products Co
Central Electronic Mfrs Inc	10 Washington Ave	8845 NE Sandy Blvd Portland 20 Ore 5
Sub Nuclear Corn of America	Hastings-on-Hudson NY 11-20 El-Rad Mfg Co	Javex
2 Richwood Pl Denville NJ Central Electronics Inc 5-7	2800 W Cullom Ave Chicago 18 III 2	PO Box 646 Redlands Calif 21
1247 W Belmont Ave Chicago 13 III 10	Elzee Metal Products Co	Jeffrey Mfg Co 803 N 4 St Columbus 16 Ohio 8
Ou Electronics Corn	775 39 St Brooklyn 32 NY 3-11	Jennings Radio Mfg Corp
305 Dallas St NE Albuquerque New Mor 5 7	Emerson & Cuming Inc	970 McLaughlin Ave San Jose 8 Calif 26
391 Ludlow St Stamford Conn	869 Washington St Canton 1 Mass 6-14 Emerson Plastics Corp	Jerrold Electronics Corp
Channel Master Corp 7-21	Seabury Ave & Butler Pl Bronx 61 NY 12	23 & Chestnut Sts Philadelphia 3 Pa 13-22-26
Ellenville NY 9_15_17_20_21	Empire Electronics Co	JFD Mfg Co
Cillegnia Airmanh S. Corp	166 River St Paterson 1 NJ 1	6101-16 Ave Brooklyn 4 NY 9-20
Gillespie Airport Santee Calif Clear Beam Antenna Corp	Endeco Eng'g Development Co of Los Angeles 922 E Anaheim St Wilmington Calif 20	Johnson Co E F
21341 Roscoe Blvd	Epco Electronics Inc	Waseca Minn 4-9-12-13-26 Johnson Electronics Inc
Canoga Park Calif 12-17-20	140 Liberty St New York 6 NY 21-26	521 Elwell St Orlando Fla 2
Clegg Labs Div Clegg Inc Ridgedale Ave Morristown NJ 1-7	Erco Radio Labs Inc	Jones Electronics Co M C
Ridgedale Ave Morristown NJ 1-7	637 Stewart Ave Garden City NY 1-28	185 M Main St Bristol Conn 6

J-V-M Eng'g Co	Pye Canada Ltd	Temperature Eng'g Corp
4633 S Lawndale Ave Lyons Ill 2-5-6-7-14	82 Northline Rd Toronto 16	U S Hwy 130 Riverton NJ 10
Kahl Scientific Instrument Corp	Ontario Canada 18	Tevco Insulated Wire
PO Box 1166 El Cajon Calif 6	Pye Telecommunications Ltd	108 E Prospect Ave Burbank Calif 12-21-22
Raiser Aircraft & Electronics Corp	Newmarket Rd 2-11-19-20-	Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas 5-7
Toledo Electronics Div PO Box 437 Toledo Ohio 1	Cambridge England 22-23-26	Thomas Mold & Die Co
PO Box 437 Toledo Ohio 1 Kemlite Labs Inc	Radar Design Corp 210 5 Ave New York 16 NY 6	Henry & Grant St Wooster Ohio 17
1819 W Grand Ave Chicago 22 Ill 27	Radiation Inc	Thomas & Sons R
Kennedy & Co D S	PO Box 37 Melbourne Fla 6	Lisbon Ohio 12
155 King St Cohasset Mass 5	Radio Corp of America Commercial	Topp Industries Inc
Kenwood Eng'g Co	Electronics Products	5255 W 102 St Los Angeles 45 Calif 10
265 Colfax Ave Kenilworth NJ 17-20	Camden 2 NJ 2-10-13-21-22-28	Tracerlab Inc
Kling Metal Spinning & Stamping Co	Radio Industries Inc	1601 Trapelo Rd Waltham 54 Mass 18
245 Centre St New York 13 NY 11	5225 N Ravenswood Ave	Trane Co
Kupfrian Mfg Corp	Chicago 25 Ill 2	Cameron & 2 St. La Crosse Wis 16
395 State St Binghamton NY 23	Radio Merchandise Sales Inc	Transco Products Inc 12210 Nebraska Ave Los Angeles 25 Calif 2
Land-Air Inc Instrument & Electronic Div	2016 Bronxdale Ave Bronx 62 NY 9-20	Trico Fuse Mfg Co
2133 Adams Ave San Leandro Calif 1 Lane Electronics Mfg Corp	Raytheon Mfg Co Commercial Equip Div 100 River St Waltham 54 Mass 5	2948 N 5 St Milwaukee 12 Wis
7254 Atoll Ave N Hollywood Calif 1-6	Reliable Spring & Wire Forms Co	Tricraft Products Corp
LaPointe Industries Inc	3167 Fulton Rd Cleveland 9 Ohio 25	1535 N Ashland Ave Chicago 22 Ill
155 W Main St	Resistoflex Corp	Tri-Point Plastics Inc
Rockville Conn 4-9-11-20-21	Woodland Rd Roseland NJ 12-14	175-I U Willets Rd Albertson LI NY 12
Lapp Insulator Co Radio Specialties Div	Rich Electronics Inc	TV Hardware Mfg Co Div Textron Inc
24 Summer St LeRoy NY 6-12-24	212 NW 8 Ave Miami 36 Fla 1-26-28	400 S Wyman St Rockford Ill 20
Lear Inc	Rixon Electronics Inc	TV Specialty Co 350 W 31 St New York 1 NY 18
3171 S Bundy Drive	2414 Reedie Dr Silver Spring Md 2-19-26	000 17 01 04 17711
Santa Monica Calif 13-16-23	Rockwell Co W S	TV Utilities Corp
Lieco Inc	220 Eliot St Fairfield Conn 10 Roffen Co Tonsfield Mass 6	112-33 Colonial Ave Corona 68 NY 18-19 Ulanet Co George
3610 Oceanside Rd Oceanside LI NY 6-7 Litton Industries of Calif	Itoligii Co Topolicia IIIabb	413 Market St Newark 5 NJ
336 N Foothill Rd Beverly Hills Calif 13	Rohn Mfg Co 116 Limestone Bellevue Peoria 5 Ill 20	Universal Clay Products Co
Lord Mfg Co	Sage Labs Inc	1528 E 1 St Sandusky Ohio 12
1635 W 12 St Erie 6 Pa 20	30 Guinan St	Uniwave Inc
Lorentzen Inc H K	Waltham 54 Mass 2-5-6-19-26	2 Marine St Farmingdale NY 6-7-9-17-2
391 W Broadway New York 12 NY 11-17	Saxton Products Inc	U S Rubber Co
Lynmar Engineers Inc	1661 Boone Ave New York 60 NY 15	1200 0 1110 1100 2010 20 212
1432 N Carlisle St Philadelphia 21 Pa 2	Sciaky Bros	Utilities Service Co 1 Pine St Alleatown Pa
McMillan Industrial Corp		Vidaire Electronics Mfg Corp
Brownville Ave Ipswich Mass 14 Magnetic Amplifiers Inc	Scientific Electric 105 Monroe St Garfield NJ 10	576 W Merrick Rd Lynbrook NY 23
632 Tinton Ave New York 55 NY 23	Seismograph Service Corp	Video Accessory Mfg Co
Maliory & Co Inc PR	6200 E 41 St Tulsa 1 Okla 6	P O Box 223 Tulsa 1 Okla 17-20
42 S Gray St Indianapolis 6 Ind 26	Sierra Electronic Corp	Video Industries Co
Maryland Electronic Mfg Corp	3885 Bohannon Dr Menlo Park Calif 1-6	242 Madison Ave Port Chester NY
5009 Calvert Rd College Park Md 20	Silicone Insulation Inc	WacLine Inc
Measurement Eng'g Ltd	Seabury Ave & Butler Pl Bronx 61 NY 12	35 S St Clair St Dayton 2 Ohio 6-2: Waldom Electronics Inc
232 John St Arnprior Ont Canada 28	Smith Inc Herman H	4625 W 53 St Chicago 32 III
Medal Mfg Co PO Box 292 Sharon Pa 20	2326 Nostrand Ave Brooklyn 10 NY 9	Walsco Electronics Mfg Co
Metal Fabricators Corp	Snyder Mfg Co	100 W Green St Rockford III 3-17-2
73 Pond St Waltham 54 Mass 11 Metal Specialty Products Corp	22 & Ontario Sts Philadelphia 40 Pa 20 South River Metal Products Co	Watlow Electric Mfg Co
27-01 Brooklyn Queens Expressway W	377 Turnpike South River NJ 20	1376 Ferguson Ave St Louis 14 Mo
Woodside 77 NY 3-11-20	South River Prods Co	Western Coil & Electrical Co
Microphase Corp	377 Turnpike South River NJ 20	215 State St Racine Wis
Box 1166 Greenwich Conn 4-7-21	Spencer-Kennedy Labs Inc	Whitaker Cable Corp 1301 Burlington St N Kansas City 16 Mo
Microwave Associates Inc	1320 Soldiers Field Rd Boston 35 Mass 2	Wiegand Co Edwin L
Burlington Mass 6	Sperry Gyroscope Co Div Sperry Rand Corp	7500 Thomas Blvd Pittsburgh 8 Pa
Mil Case Corp	Great Neck NY	Winder Aircraft Corp of Florida
35-18 37 St Long Island City NY 11 Millen Mfg Co James	Spinform Inc 65 Mechanic St Attleboro Mass 11	P O Roy 2897 Drane Field
150 Exchange St Malden 48 Mass 2	Spivey Inc James S	Lakeland Fla 3-11-12-17-2
Model Eng'g & Mfg Inc	4908 Hampden Lane Washington 14 D C 6	Wind Turbine Co
50 Frederick St	Stainless Inc	E Market St & P R R W Chester Pa 6-12-17-20-24-26-2
Huntington Ind 1-20	3 St North Wales Pa 27	W Chester Pa 6-12-17-20-24-20-2 Wollensak Optical Co
Modern Laboratory Equip Co	Standard Electronics Div Radio Eng'g Labs	850 Hudson Ave Rochester 22 NY 1
1811 1 Ave New York 28 NY 10	30 & Borden Sts	Workman TV Inc
Mosley Electronics Inc	Long Island City NY 5-6-7-19	309 Queen Anne Rd Teaneck NJ
8622 St Charles Rock Rd St Louis 14 Mo 2-12-21-22	States Co 19 New Park Ave Hartford 6 Conn 6	Zenith Plastics Co
St Louis 14 Mo 2-12-21-22 Mueller Electric Co	19 New Park Ave Hartford 6 Conn 6 Steiner-Ives Co	1600 W 135 St Gardena Calif
1585H E 31 St Cleveland 14 Ohio 3	Springfield Rd Union NJ 10	
Mykroy Inc	Stewart Instrument Co	
Wheeling Ill 12	6507 Grand River Detroit 8 Mich 18	9—AVIATION
National Company Inc	Stone City Machine & Tool Co	AUXILIARY ELECTRONIC
61 Sherman St Malden 48 Mass 12	1206 7 St Bedford Ind 3-9	
National Electric Products Corp	Superex Electronics Corp	EQUIPMENT
2 Gateway Center Pittsburgh 22 Pa 17-20	4 Radford Pl Yonkers NY 1	·
Newcomb Spring of Conn	Surface Combustion Corp 2875 Dorr St. Toledo 1 Ohio 10	Antenna accessories 1
College Hwy Southington Conn 25 Newcomb Spring Corp		Antennas, aviation 2
177 E Hawthorne Ave	Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W	Autopilot
Valley Stream NY 9-20-25	Woodside 77 NY 6	Controls gircraft
North Electric Co	Tarc Electronics Inc	Controls, directall
553 S Market St Galion Ohio 18	48 Urban Ave Westbury LI NY 18	Emergency equipment 5
N R K Mfg & Eng'g Co	Taylor Fibre Co	Gyroscopes 6
4601 W Addison St Chicago 41 Ill 6	Norristown Pa	Power Supplies 7
Ohio Brass Co 380 N Main St Mansfield Ohio 15	Technical Appliance Corp	Power supplies, emergency 8
380 N Main St Mansfield Ohio 15 Ohmite Mfg Co	1 Taco St Sherburne NY 2-4-20-21-22 Technicraft Labs Inc	Power supplies, 400 CPS 9
3601 Howard St Skokie Ill 6	Thomaston-Waterbury Rd	December -i-Lane Al- 10
Palmer Inc M V	Thomaston Conn 5-7	Recorders, airborne film 10
4002 Fruit Valley Rd Vancouver Wash 2	Tech-Ohm Resistor Corp	Recorders, airborne magnetic 11
Panellit Inc	36-11 33 St Long Island City 6 NY 10	Recorders, airport controller 12
7401 N Hamlin Ave Skokie Ill 18	Telechrome Mfg Corp	Test equipment 13
Parker Metal Goods Co	28 Ranick Dr Amityville LI NY 7-18	Transducers 14
85 Prescott St Worcester 5 Mass 9-12-17-26	Tele-Coil Co	Vibration mountings 15
Petroff Corp Peter A 127 Water St New York 5 NY 6-12-17	2733 Saunders St Camden 5 NJ 27	TIMIGHTON MUREHINGS
Photocircuits Corp	Telectro Industries Corp	COMMINICATIONS MAYICATION
31 Sea Cliff Ave Glen Cove NY 21	35-18 37 St	COMMUNICATIONS NAVIGATION
Photographic Analysis Inc	Long Island City 1 NY 1-6-11-18-20	EQUIPMENT
13273 Ventura Blvd N Hollywood Calif 8	Telematic Industries Inc	
Porcelain Products Inc	16 Howard Ave Brooklyn 7 NY 21	Airborne landing systems 16
420 W Sandusky St Findlay Ohio 12		Altimeters, radio 17
	Telerad Mfg Corp	
Premax Products Div Chisolm-Ryder Co	1440 Broadway New York 18 NY 6	Computers
College & Highland Aves	1440 Broadway New York 18 NY Tel-Instrument Electronics Corp	Computers
College & Highland Aves Niagara Falls NY 12-20	1440 Broadway New York 18 NY 6 Tel-Instrument Electronics Corp	Computers
College & Highland Aves Niagara Falls NY 12-20 Premier Instrument Corp	1440 Broadway New York 18 NY Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ 18	Computers
College & Highland Aves Niagara Falls NY 12-20 Premier Instrument Corp 52 W Houston St New York 12 NY 2-5-6-7 Prodelin Inc	1440 Broadway New York 18 NY Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ Telkor Inc N Murray Ridge Rd Elyria Ohio 21 Telrex Labs	Computers
College & Highland Aves Niagara Falls NY 12-20 Premier Instrument Corp 52 W Houston St New York 12 NY 2-5-6-7	1440 Broadway New York 18 NY Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ 18 Telkor Inc N Murray Ridge Rd Elyria Ohio 21	Computers

Facsimile 23	Arma Div American Bosch Arma Corp	Century Electronics & Instruments Inc
Flight simulators & trainers 24	Garden City NY 6-18-26-29-31	1333 N Utica Ave Tulsa 10 Okla 11
Ground landing systems 25	Arnoux Corp 11924 W Washington Blvd	Century Engineers 2741 N Naomi St Burbank Calif 20
Guided missile telemetering 26	Los Angeles 66 Calif 9	CG Electronics Corp
Intercommunication systems 27	Askania Regulator Co 240 E Ontario St	305 Dallas St
Lamps, aircraft 28	Chicago 11 III 4-13-19-20-21-29-30	N E Albuquerque New Mex 21-26 CGS Laboratories Inc
Navigation equipment, airborne 29	Associated Research Inc	391 Ludlow St Stamford Conn 32
Navigation equipment, ground 30	3758 W Belmont Ave Chicago 18 11 13 Atlas Eng'g Co	Chatham Electronics Div Gera Corp W Mt Pleasant Ave Livingston NJ 7-8
Radar 31	176 Blue Hill Ave Roxbury 19 Mass 9	Chicago Aerial Industries Inc
Radar beacons	Authorized Mfrs Service Co 919 Wyckoff Ave Brooklyn 27 NY 13	1980 N Hawthorne Ave
Receivers	Autonetics Div North American Aviation	Melrose Park Ill 4-19-20-25-29 Chicago Miniature Lamp Works
Transmitters 34	9150 E Imperial Hwy	1500 N Ogden Ave Chicago 10 Ill 28
	Downey Calif 3-11-16-18-20-31 Autron Eng'g Inc	Chu Associates 634 Waverly St Framingham Mass 1-2
Abrams Instrument Corp	1254 W 6 St Los Angeles 17 Calif 15	634 Waverly St Framingham Mass 1-2 Circon Component Co
606 E Shiawassee St Lansing 1 Mich 20-26	Avion Div ACF Industries Inc	Santa Barbara Municipal Airport
A C Electronics Div General Motors Corp Toledo Ohio 20	11 Park Pl 4-7-9-18-19-20 Paramus NJ 25-26-29-30-32	Goleta Calif 28 Clark Electronic Labs
ACF Industries Nuclear Prods-Erco Div	Avionics Ltd	Box 165 Palm Springs Calif 14
48 Lafayette St Riverdale Md 13-24-33 Acoustica Associates Shore Rd	P O Box 200 Niagara-on-the-Lake Ontario Can 2-12-14-26	Clevite Harris Products Inc
Glenwood Landing LI NY 20	Avtron Mfg Inc	6545 Carnegie Ave Cleveland 3 Ohio 15 Clifton Precision Products Co
Adler Electronics Inc	10409 Meech Ave Cleveland 5 Ohio 13	Marple at Broadway Clifton Heights Pa 18
1 LeFevre Lane New Rochelle NY 9 Admiral Corp	Babcock Radio Eng'g Inc 7942 Woodley Ave Van Nuys Calif 13-21-32	Coaxial Connector Co 37 N 2 Ave Mt Vernon NY 2
3800 W Cortland St Chicago 47 III 33	Barry Controls Inc	Coil Winders Inc
Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 16-18-32	700 Pleasant St Watertown 72 Mass 15	New York Ave Westbury LI NY 26
Advance Instrument Corp	Behlman Eng'g Co 114 S Hollywood Way Burbank Calif 9	Collins Electronics Mfg Corp Stevensville Md 9
1709 F St Belmar NJ 9	Bell Aircraft Corp	Collins Radio Co
Aero Electronics Co 1512 N Wells St	P O Box 1 1-2-3-4-7-8-9-13-16-17-18-19-20 Buffalo 5 NY 22-25-26-27-29-30-31-32-33-34	855 35 St N E 1-2-3-4-13-16-19-21-22 Cedar Rapids Iowa 25-27-29-30-31-33-34
Chicago 10 III 13-18-19-20-29	Bell & Gossett Co	Colorado Research Corp
Aeroflex Labs 34-06 Skillman Ave	8200 Austin Ave Morton Grove III 26	4697 E Evans Ave Denver 22 Colo 4
Long Island City 1 NY 6	Belock Instrument Corp 111-01 14 Ave 4-6-18-19	Columbia Products Co 6625 Shakespeare Rd Columbia SC 2
Aeronautical Electronics Inc	College Point 56 NY 20-24-26-29	Colvin Labs Inc
P O Box 6527 Raleigh NC 2-5-7-29-33-34 Aerophysics Development Corp Sub	Bendix Aviation Corp Bendix Computer Div 5630 Arbor Vitae St	364 Glenwood Ave E Orange NJ 14 Commercial Radio Sound Corp
Curtiss-Wright Corp P O Box 689	Los Angeles 45 Calif 24	652 1 Ave New York 16 NY 9
Santa Barbara Calif Aerotest Laboratories	Bendix Aviation Corp Pacific Div	Communication Accessories Co
129-11 18 Ave College Point 56 NY 13	11600 Sherman Way N Hollywood Calif 16-20-22-26-31-32	110 St & 71 Hwy Hickman Mills Mo 7-9-21 Computer Control Co
Affton Industries	Bendix Aviation Corp Bendix Radio Div	92 Broad St Wellesley 57 Mass 17-18
406 St Louis Ave Valley Park Mo 10-11 Aircraft Radio Corp	East Joppa Rd 2-7-16-19-20-21-25-26-27 Towson 4 Md 29-30-31-32-33-34	Computing Devices of Canada Ltd P O Box 508 Ottawa Ontario Can 4-18-29
Boonton NJ 29-34	Bendix Aviation Corp 2-3-4-6-7-8-9-13-16	P O Box 508 Ottawa Ontario Can 4-18-29 Condenser Products Div New Haven
AiResearch Mfg Co Div Garrett Corp	1104 Fisher Bldg 18-19-20-21-22-25-26	Clock & Watch Co 140 Hamilton St
9851 Sepulveda Blvd Los Angeles 45 Calif 5-13-14-18-20	Detroit 2 Mich 27-29-30-31-32-33-34 Bendix Aviation Corp Red Bank Div	New Haven 4 Conn 7-8-9 Conn Telephone & Electric Corp
Airpax Products Co	Eatontown NJ 7-8-9	70 Brittania St Meriden Conn 13-27
Middle River Baltimore 20 Md 9 Air Transport Mfg Co	Rergen Wire Rope Co	Conrad & Moser
1114 N Sycamore Ave	4 Berndt-Bach Inc Auricon Div	2 Borden Ave Long Island City 1 NY 29-30 Consolidated Electrodynamics Corp
Los Angeles 38 Calif	6900 Romaine St Hollywood 38 Calif 10-11	300 N Sierra Madre Villa
Alden Electronic & Impulse Recording Equip Co P O Box 125	Rernco Engineering Corp 2820 S Tibbs Ave	Pasadena Calif 11-13-14 Consolidated Avionics Corp
Westboro Mass 23	Indianapolis 41 Ind 4-13-20	66 Brooklyn Ave 3-4-9-13-14-18
Alfax Paper & Eng'g Co Washington St Westboro Mass 23	B & F Instruments Inc 4732 N Broad St Philadelphia 41 Pa 14	Westbury NY 19-20-26-31
All American Eng'g Co	B & H Instrument Co	Consolidated Productions Inc Broward Int'l Airport
DuPont Airport Box USS 2668 Wilmington 5 Dela 8	3479 W Vickery Blvd Ft Worth 7 Texas 13	Ft Lauderdale Fla 21-24
2668 Wilmington 5 Dela Allied Engraving & Stamping Co	B J Electronics Borg-Warner Corn 3300 Newrort Ave Santa Ana Calif 26	Continental Electric Co 325 Ferry St Newark 5 NJ 9
17 Elm St Buffalo 3 NY 23	Blaine Electronetics Inc	Control Specialists Inc
Allis Co Louis 427 E Stewart St Milwaukee 1 Wis 9	14757 Keswick St Van Nuys Calif 1-2-13 Boehme Inc H O	115 E Arbor Vitae St Inglewood 1 Calif 3 Cook Electric Co
Alto Scientific Co	915 Broadway New York 10 NY 30	2700 Southport Ave Chicago 14 Ill 4-19
855 Commercial St Palo Alto Calif 7-9-10-13 Amerac Inc	Bogue Electric Mfg Co	Corbin Corp
116 Topsfield Rd Wenham Mass 16-31-32	Iowa Ave Paterson 3 NJ 7-8-9 Bourns Labs Inc	5419 56 Pl Riverdale Md 16-18-23-25-29-30 Craig Systems Inc
American Gyro Corp	6135 Magnolia Ave Riverside Calif 14	90 Holten St Danvers Mass 25
3030 Nebraska Ave Santa Monica Calif 6-14 American Instrument Co	Bowmar Instrument Corp 2415 Pennsylvania St	Crescent Eng'g & Research Co 5440 N Peck Rd El Monte Calif 4-11-20
8030 Georgia Ave Silver Spring Md 13	Ft Wayne Ind 4-19-20-21	Curtiss-Wright Corp Electronics Div
American Machine & Foundry Co Electronics Div 1085 Commonwealth Ave	Brach Mfg Corp 200 Central Ave Newark 3 NJ 2	631 Central Ave Carlstadt NJ 24 Dale Products Inc
Roston 15 Mass 22-25-29-32	Brubaker Electronics Inc	Columbus Nebr 1-2
American Machine & Foundry Co Defense	3652 Eastham Dr Culver City Calif 29-30	Dalmo Victor Co Div Textron Inc
Products Group 1101 N Royal St 1-8-13-16 Alexandria Va 20-22-25-26-29-30-32	Bruno-New York Industries Corp 460 W 34 St New York 1 NY 13-16-29	1515 Industrial Way Belmont Calif 1-20 Darco Industries Inc Gyro Dynamics Div
American Rectifier Corp	Brush Electronics Co	2151 E Rosecrans Ave
95 Lafayette St New York 13 NY 8-9 American Television & Radio Co	3405 Perkins Ave Cleveland O 14-20	El Segundo Calif 3-4-6-14-19-20 Datran Electronics
300 E 4 St St Paul 1 Minn 8	Bundy Electronics Corp 171 Fabyan Pl Newark 12 NJ 8	3615 Aviation Blvd
AMP Inc Chemical Dielectrics Div 155 Park St Elizabethtown Pa 9	Burroughs Corp	Manhattan Beach Calif
Ampex Corp	6071 2 Ave 2-4-6-11-12-16-18-19-20 Detroit 32 Mich 23-25-26-29-30-33	Daven Co Route 10 Livingston NJ 20-26-33
934 Charter St Redwood City Calif 11-26	Cable Electric Products	Davenport Mfg Co
Amplivox Ltd 2 Bentiner St London W I England 14	234 Daboll St Providence 7 RI 20-28	1713 N Ashland Ave Chicago 22 III 13 Daystrom Pacific Corp
Analogue Controls Inc	Calif Magnetic Control Corp 11922 Valerio St N Hollywood Calif 7-8-9	3030 Nebraska Ave Santa Monica Calif 6-14
39 Roselle St Mineola NY 3-4-6-18-19-20-29-30 Anchor Specialty Mfg Co	Calif Technical Industries	Dayton Aviation Radio & Equipment Corp R R 3 Troy Ohio 2-18-21-22-25-27-29-33-34
Hollister Rd Teterboro NJ 13	1421 Old County Rd Belmont 10 Calif 24	Daytronic Corp
Andrew Antenna Corp	Canadian Aviation Electronics Ltd 6214 Cote de Liesse Rd 7-18-21-24-26	216 S Main St Dayton 2 Ohio 14
606 Beech St Whitby Ontario Can 2 Andrew California Corp	St Laurent Quebec Canada 29-30-32-33	Dearborn Electronic Labs Inc 1421 N Wells St Chicago 10 Ill 9
941 E Marylind Ave Claremont Calif 1-2	Canoga Corp	Defiance Eng'g & Microwave Corp
Andrew Corp 363 E 75 St Chicago 19 III 2	5955 Sepulveda Blvd Van Nuys Calif 26-32 CELCO Constantine Eng'g Labs Co	Beverly Airport Beverly Mass 2
Antenna Specialists Co	P O Box 555 Mahwah NJ 7	Del Electronics Corp 41 N Mac Questen Pkwy Mt Vernon NY 9
12435 Euclid Ave Cleveland 6 Ohio 2	Central Electronic Mfrs Inc Sub Nuclear	Deming Indicator Co
Applied Electronics Co 213 E Grand Ave S San Francisco Calif 3	Corp of America 2 Richwood Pl Denville NJ 32	1016 Acorn Dr Dayton 9 Ohio 13 Designers for Industry
Applied Science Corp of Princeton	Central Electronics Inc	4241 Fulton Pkwy Cleveland 9 Ohio 31-32
P O Box No 44 Princeton NJ 26 Arens Controls Inc	1247 W Belmont Ave Chicago 13 Ill 34 Central Scientific Co of Calif	Detroit Controls Corp Norwood Controls
2017 Greenleaf St Evanston III 4	1040 Martin Ave Santa Clara Calif 6	Unit 934 Washington St Norwood Mass 14

Diamond Antenna & Microwave Corp 7 North Ave Wakefield Mass 1-2-22-31-32	Ford Instrument Co Div Sperry Rand Corp 31-10 Thomson Ave	I-L-S Instrument Corp 4525 W 160 St Cleveland 11 Ohio 9
Dirigo Compass & Instrument Co	Long Island City 1 NY 18-19-20-26-29-30	Industrial Research Labs Div Aeronca
Dit-Mco Inc Electronics Div	Frequency Standards Inc P O Box 504 Asbury Park NJ 32	Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md 7-20
911 Broadway Kansas City Mo 13 Donner Scientific Co	Fretco Inc 406 N Craig St Pittsburgh 13 Pa 1-2	Industrial Test Equipment Co 55 E 11 St New York 3 NY 9-13
888 Galindo St Concord Calif 14 Dorne & Margolin	Friez Instrument Div Bendix Aviation Corp	Industrial TV Inc
29 New York Ave Westbury NY 2-31	1400 Taylor Ave Baltimore 4 Md 14 Gabriel Electronics Div Gabriel Co	Intelex Systems Inc
Dressen-Barnes Corp 250 N Vinedo Ave Pasadena Calif 9	135 Crescent Rd Needham Heights 94 Mass 1-2	22 Thames St New York 6 NY 17 International Business Mach
Dwyer Eng'g Co Pine St Ext Nashua NH 3-26	Garrett Corp AiResearch Mfg Co Div	590 Madison Ave NY 23 NY 3-13-17-18-29-31
Dyna-Empire Inc	9851 Sepulveda Blvd Los Angeles 45 Calif 5-13-14-18-20	International Research Associates 2221 Warwick Ave
1075 Stewart Ave Garden City LI NY 4 Dynamics Instrumentation Co Div	Gates Electronic Co 2090 Barnes Ave Bronx 62 NY 7	Santa Monica Calif 7-9-14 Interstate Electronics Corp
Alberhill Corp 1118 Mission St S Pasadena Calif 9	General Bronze Corp 711 Stewart Ave Garden City NY 1-2	875 S East St Anaheim Calif 13-26 Isolantite Mfg Corp
Dynamics Research Associates Div	General Coil Products Corp	Warren Ave Stirling NJ 1
Universal Match Corp P O Box 5841 Ferguson 21 Mo 4-7-20	43 Roselle St Mineola NY 1 General Communication Co	Jack Scientific Instrument Co Bill 143 Cedros St Solana Beach Calif 13
Eastern Precision Resistor Corp 675 Barbey St Brooklyn 7 NY 7-9	677 Beacon St Boston 15 Mass 13-26-29-30-31-32-33	Jacobs Instrument Co 4718 Bethesda Ave Bethesda 14 Md 18-29
Eberline Instrument Div Reynolds	General Control Co	JaMac Products Co
Electrical 805 Early St Santa Fe N Mexico 20	1200 Soldiers Field Rd Boston 34 Mass 21 General Electric Co Apparatus Sales Div	8845 N E Sandy Blvd Portland 20 Ore 2 Jarvis Electronics Corp
Eclipse-Pioneer Div Bendix Aviation Corp Teterboro NJ 3-4-6-16-18-19-20-29	1 River Rd Schenectady 5 NY 26 General Electric Co Light Military	1140 Cherry St Winnetka Ill 18-22-29-33-34 Johnson Aircraft Eng'g Co M J
Edcliff Instruments	Electronic Equip Dept	Box 10 Morristown Airport
1711 S Mountain Ave Monrovia Calif Edison Industries Thomas A Instrument	French Rd Utica NY 29-31-33 General Precision Lab Inc	Morristown NJ 4-13-19-24 J-V-M Eng'g Co
Div 93 Lakeside Ave W Orange NJ 14-20	63 Bedford Rd Pleasantville NY 29 General RF Fittings Inc	4633 S Lawndale Ave Lyons III 20-26-31-32 Kahn & Co
Edko Electronics Eng'g Co 202 Grand St Brooklyn 11 NY 7-9	702 Beacon St Boston 15 Mass 2	541 Windsor St Hartford 1 Conn 13
Edo Corp	Genisco Inc 2233 Federal Ave	Kaiser Aircraft & Electronics Corp Toledo Electronics Div P O Box 487
13-10 111 St College Point 56 LI NY 29 Eicor Inc	Los Angeles 64 Calif 13-1 Giannini & Co G M	Toledo Ohie 3-18-20-24-27-31 Kato Eng'g Co
4235 W North Ave Chicago 39 Ill 7-8-9 Electrical Communications Inc	918 E Green St	1415 1 Ave Mankato Minn 7-8-9
765 Clementina St	Pasadena Calif 4-6-13-14-18-19-20-26-29  Calobe Industries Inc	Katolight Corp Box 891 Mankato Minn 7-8-9
San Francisco 3 Calif 4-19-20-21-26 Electric Cord Co	1784 Stanley Ave Dayton 4 Ohio 6 Good Electric Corp	Kemlite Labs Inc 1819 W Grand Ave Chicago 22 Ill 5-25
21 Spruce St New York 38 NY 5 Electric Regulator Corp	Natick Mass 13	Kennedy & Co D S 155 King St Cobasset Mass 2
Pearl St Norwalk Conn 20	Goodyear Aircraft Corp 1210 Massillon Rd	Kepco Labs
Electric Specialty Co 211 South St Stamford 1 Conn 9	Akron 15 Ohio 13-20-24-29-31 Goslin Electric & Mfg Co	131-38 Sanford Ave Flushing NY 7-9 King Electric Equipment Co
Electrola Inc 7517 N Clark St Chicago 26 Ill 21	2921 W Olive Ave Burbank Calif 9	9123 Inman Ave Cleveland 5 Ohio 13 Kistler Instrument Corp
Electronic Brazing Co	Gotham Audio Development Corp 2 W 46 St New York 36 NY 9	15 Webster St N Tonawanda NY 14
Electronic Measurements Co	GPS Instrument Co 811 Boylston St Boston 16 Mass 18	Kollsman Instrument Corp Standard Coil Products 80-08 45 Ave
Lewis St & Maple Ave Eatontown NJ 7-9 Electronic Research Associates	Gray Research & Development Co	Elmhurst 78 NY 4-13-14-18-20-29 Krengel Mfg Co
67 E Centre St Nutley 10 NJ 7 Electronics Development Co	Greenleaf Mfg Co Div Mandrel Industries	227 Fulton St New York 7 NY 23
3743 N Cahuenga Blvd	7814 Maplewood Industrial Ct St Louis 17 Mo 6	Kupfrian Mfg Corp 895 State St Binghamton NY 21
N Hollywood Calif 26 Electronic Specialty Co	Greer Hydraulics Inc	Lambda Electronics Corp 11-11 131 St College Point 56 NY 7-5
5121 San Fernando Rd	N Y Int'l Airport Jamaica 30 NY 13 Guardian Electric Mfg Co	Land-Air Inc Instrument & Electronic Div
Electrosolids Corp	1621 W Walnut St Chicago 12 III 4 Gulton Industries Inc	2133 Adams Ave San Leandro Calif 7-9-13-16-25-26-27-35
7436 Varna Ave N Hollywood Calif 7-8-9-27 Electro-Switch & Controls Inc	212 Durham Ave Metuchen NJ 7-11-26	Lane Electronics Mfg Corp 7254 Atoll Ave N Hollywood Calif 17-21
5755 Camille Ave Culver City Calif 4 Elm Labs	Gyro Electronics Co 325 Canal St New York 13 NY 21	Langevin Mfg Corp
10 Washington Ave	Hackensack Cable Corp 110 Orchard St Hackensack N.I 2	47-37 Austell PI Long Island City 1 NY 7-27 Lansing Sound Inc James B
Hastings-on-Hudson NY 1-27 Emeloid Co	Hagan Chemicals & Controls Inc Hagan Bldg Pittsburgh 30 Pa 14	3249 Casitas Ave Los Angeles 39 Calif LaPointe Industries Inc
1239 Central Ave Hillside 5 NJ 18 Emerson-Sack-Warner Corp	Hallamore Electronics Co	155 W Main St Rockville Conn
85 Washington St Somerville 43 Mass 1	8352 Brookhurst Ave Anaheim Calif 3-7-13-20-26-29-30	Lavoie Labs Inc Matawan-Freehold Rd
Empire Devices Products Corp 38-15 Bell Blvd Bayside 61 NY 9	Hallicrafters Co 4401 W 5 Ave Chicago 24 Ill 1-26-33-34	Morganville NJ Lawn Electronics Co
Empire Electronics Co 166 River St Paterson 1 NJ 1	Hancock Electronics Corp	E Freehold Rd Freehold NJ 7-
Endevco Corp	2553 Middlefield Rd Redwood City Calif 27	Leach Corp Inet-Palmer Div 4441 S Santa Fe Ave
161 E California St Pasadena Calif 14 Enflo Corp	Harrison Labs 45 Industrial Rd Berkeley Heights NJ 9	Los Angeles 58 Calif 7-8-
Rte 38 at Airport Circle Pennsauken 11 NJ 1	Hastings-Raydist Inc	Lear Inc 3171 S Bundy Drive 1-2-4-5-6-8-9-16-1
Epsco Inc	Newcomb Ave Hampton Va 29-30 Haydon Co A W	Santa Monica Calif 20-21-27-29-33-3 Lee Electric & Mfg Co
588 Commonwealth Ave Boston 15 Mass 26 Erco Radio Labs Inc	232 N Elm St Waterbury 20 Conn 4 Heiland Div Minneapolis-Honeywell	2806 Clearwater St
637 Stewart Ave Garden City NY 2-30-34 Erikson Specialized Tool Co	5200 E Evans Ave Denver 22 Colo 10	Los Angeles 39 Calif Leland Electric Co Div American
4902 S Lexington Rd Pico 1 Calif 1 Fairchild Controls Corp Components Div	Heleo Products Corp 7832 Balboa Blvd Van Nuys Calif 14	Machine & Foundry 1501 Webster St
225 Park Ave Hicksville LI NY 20	Herzog Miniature Lamp Works 50-17 5 St Long Island City 1 NY 28	Lenkurt Electric Co
Fairchild Guided Missiles Div Fairchild Engine & Airplane Corp	Hewson Co 443 Broad St Newark 2 NJ 13	1105 County Rd San Carlos Calif 2 Levinthal Electronic Products Inc
Straight Path Wyandanch LI NY 3 Farnsworth Electronics Co Div IT&T	Highland Eng'g Co 90 Magnolia St Westbury NY 7-9	3180 Hanover St Palo Alto Calif
3702 E Pontiac St Ft Wayne Ind 20-26	Hill Electronic Eng'g & Mfg Co New Kingstown Pa  9	Librascope Inc 808 Western Ave Glendale Calif 18-29-3
Farrand Controls Inc 4401 Bronx Blvd New York 70 NY 20	Hobart Bros	Link Aviation Inc
Fecker Inc J W 6592 Hamilton Ave Pittsburgh 6 Pa 18	Hobart Square E Troy 3 Ohio 9-13 Hogan Labs Inc	Linlar Inc
Federal Mfg & Eng'g Corp	155 Perry St New York 14 NY 23 Homelite Div Textron Inc	4101 San Fernando Rd Glendale 4 Calif 7-9-2
1055 Stewart Ave Garden City NY 30 Federal Shockmount Corp		Glelidaic 4 Carr
	67 Riverdale Ave Port Chester NY 7-8-9	Litton Industries of Calif
1060 Washington Ave New York 56 NY 15	67 Riverdale Ave Port Chester NY 7-8-9 Hoover Electronics Co	Litton Industries of Carlina 336 N Footbill Rd 3-6-7-9-16-18-19-26-2 Beverly Hills Calif 22-24-26-29-30-31-32-3
Federal Telecommunication Labs Div IT&T 500 Washington Ave	67 Riverdale Ave Port Chester NY 7-8-9 Hoover Electronics Co 3640 Woodland Ave Baltimore 7 Md 7-21-26-32	336 N Foothill Rd 3-6-7-9-16-18-19-20-2 Beverly Hills Calif 22-24-26-29-30-31-32-3 Loral Electronics Corp
Federal Telecommunication Labs Div IT&T 500 Washington Ave Nutley NJ 2-3-17-18-29	67 Riverdale Ave Port Chester NY 7-8-9 Hoover Electronics Co 3640 Woodland Ave	336 N Foothill Rd 3-6-7-9-16-18-19-20-2  Beverly Hills Calif 22-24-26-29-30-31-32-3  Loral Electronics Corp  749 E 140 St New York 54 NY 1  Lord Mfg Co
Federal Telecommunication Labs Div IT&T 500 Washington Ave Nutley NJ 2-3-17-18-29 Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd	67 Riverdale Ave Port Chester NY 7-8-9 Hoover Electronics Co 2640 Woodland Ave Baltimore 7 Md 7-21-26-32 Hughes Aircraft Co Florence & Teale Sts Culver City Calif 29 Humphrey Inc	336 N Foothill Rd 3-6-7-9-16-18-19-26-2 Beverly Hills Calif 22-24-26-29-30-31-32-3 Loral Electromics Corp 749 E 140 St New York 54 NY 1 Lord Mfg Co 1625 W 12 St Erie 6 Pa 1
Federal Telecommunication Labs Div IT&T 500 Washington Ave Nutley NJ 2-3-17-18-29 Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ 3-21-22-29-30-31-32-33-34 Flight Research Inc	67 Riverdale Ave Port Chester NY 7-8-9 Hoover Electronics Co 2640 Woodland Ave Baltimore 7 Md 7-21-26-32 Hughes Aircraft Co Florence & Teale Sts Culver City Calif 29 Humphrey Inc 2805 Canon St San Diego Calif 6-14 Ideal-Aerosmith Inc	336 N Foothill Rd 3.6-7-9-16-18-19-26-2 Beverly Hills Calif 22-24-26-29-30-31-32-3 Loral Electronics Corp 749 E 140 St New York 54 NY 1 Lord Mfg Co 1635 W 12 St Erie 6 Pa 1 Lytle Eng'r & Mfg Co 1404 San Mateo Blvd
Federal Telecommunication Labs Div IT&T 500 Washington Ave Nutley NJ 2-3-17-18-29 Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ 3-21-22-29-30-31-32-33-34	67 Riverdale Ave Port Chester NY 7-8-9 Hoover Electronics Co 3640 Woodland Ave Baltimore 7 Md 7-21-26-32 Hughes Aircraft Co Florence & Teale Sta Culver City Calif 29 Humphrey Inc 2805 Canon St San Diego Calif 6-14	336 N Foothill Rd 3.6-7-9-16-18-19-20-2 Eeverly Hills Calif 22-24-26-29-30-31-32-3 Loral Electromics Corp 749 E 140 St New York 54 NY 1 Lord Mfg Co 1635 W 12 St Erie 6 Pa 1 Lytle Eng'g & Mfg Co

Trucks Inc 1120 S 2 St	
Plainfield NJ	3-13-33
Magnecord Div Midwestern Instruments 1101 S Kilbourn Ave Chicago 24 Ill	Inc 12
Magnetic Amplifiers Inc	12
632 Tinton Ave New York 55 NY 4-7-8-	9-19-20
Magnetic Research Corp 3160 W El Segundo Blvd	- 10 20
Hawthorne Calif	7-9-26
Manning Maxwell & Moore Inc	
Shelter Rock Lane Danbury Conn Marion Electrical Instrument Co	4-20
Grenier Field Manchester NH Mark Products Co 6412 W Lincoln Ave Morton Grove I	29
6412 W Lincoln Ave Morton Grove II	11 1
Maryland Electronic Mfg Corp	
5009 Calvert Rd College Park Md 25-20	6-30-32
Martlab Co	
249 Haverford Ave Swarthmore Pa Matchless Electric Co	3-19
1700 Washington Blvd Chicago 12 Ill	28
37-01 31 St Long Island City 1 NY Maxson Corp W L 475 10 Ave New York 18 NY	10
Maxson Corp W L	_
measurement Duk & Did	18-31
232 John St Arnprior Ont Canada Melco Products Inc	32
301 5 Ave S Minneapolis 15 Minn	7-9
Melpar Inc 3000 Arlington Blvd Falls Church Va	
Mercury Electronic Co	24-31
	7-9-15
8739 S Millergrove Dr Whittier Calif	1
Merz Eng'g Inc 200 S Harding St Indianapolis Ind	
Midwestern Instruments	13
P O Box 7186 Tulsa Okla Miles Reproducer Co	11
812 Broadway New York 3 NY	10
MinAtron Corp Belle Mead 9 NJ	14
Minneapolis-Honeywell Regulator Co	14
Davies Labs Div 10721 Hanna St Beltsville Md	11
Minn-Honeywell Regulator Co	
Ordnance Div Hopkins Minn Minn-Honeywell Regulator Co Aero Div	9
1433 Stinson Blvd 3-4-6-13	
Minor Dubban C-	-20-25
Ackerman St Bloomfield NJ Missileonics Inc	15
P O Roy 716 Melhouses Ele	30
Mitchell Industries Inc. P O Box 17 F M 1195 Municipal Airpo	art
P O Box 17 F M 1195 Municipal Airpo Mineral Wells Texas Model Eng'g & Mfg Inc	2-3-33
50 Frederick St	
50 Frederick St Huntington Ind 1-2-7-9-26-27	
Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY	
Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Industries Inc	-33-34 7
Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Industries Inc 2601 Colorado Ave Santa Monica Calif Mohawk Business Machines Corp	-33-34 7
Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Industries Inc 2601 Colorado Ave Santa Monica Calif Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY	-33-34 7
Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Industries Inc 2601 Colorado Ave Santa Monica Calif Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY Monroe Calculating Machine Co Electronics Div Morris Plaine NI	-33-34 7 7 7-9
Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Industries Inc 2601 Colorado Ave Santa Monica Calif Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY Monroe Calculating Machine Co Electronics Div Morris Plains NJ Moog Valve Co Proner Airport E Aurora NY	-33-34 7 7 7-9 11 18
Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Industries Inc 2601 Colorado Ave Santa Monica Calif Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY Monroe Calculating Machine Co Electronics Div Morris Plains NJ Moog Valve Co Proner Airport E Aurora NY Moran Instrument Corp	7 7 7 7-9
Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Industries Inc 2601 Colorado Ave Santa Monica Calif Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY Monroe Calculating Machine Co Electronics Div Morris Plains NJ Moog Valve Co Proner Airport E Aurora NY Moran Instrument Corp 170 E Orange Grove Ave Passadona 3 Calif	7 7 7-9 11 18
Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Industries Inc 2601 Colorado Ave Santa Monica Calif Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY Monroe Calculating Machine Co Electronics Div Morris Plains NJ Moog Valve Co Proner Airport E Aurora NY Moran Instrument Corp 170 E Orange Grove Ave Passadona 3 Calif	-33-34 7 7 7-9 11 18 14
Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Industries Inc 2601 Colorado Ave Santa Monica Calif Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY Monroe Calculating Machine Co Electronics Div Morris Plains NJ Moog Valve Co Proner Airport E Aurora NY Moran Instrument Corp 170 E Orange Grove Ave Pasadena 3 Calif Morrow Radio Mfg Co 2794 Market St Salem Ore Motoresearch Co	7 7 7-9 11 18
Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Industries Inc 2601 Colorado Ave Santa Monica Calif Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY Monroe Calculating Machine Co Electronics Div Morris Plains NJ Moor Valve Co Proner Airport E Aurora NY Moran Instrument Corp 170 E Orange Grove Ave Pasadena 3 Calif Morrow Radio Mfg Co 2794 Market St Salem Ore Motoresearch Co 1600 Junction Ave Racine Wis	-33-34 7 7 7-9 11 18 14
Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Industries Inc 2601 Colorado Ave Santa Monica Calif Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY Monroe Calculating Machine Co Electronics Div Morris Plains NJ Moog Valve Co Proner Airport E Aurora NY Moran Instrument Corp 170 E Orange Grove Ave Passadena 3 Calif Morrow Radio Mfg Co 2794 Market St Salem Ore Motoresearch Co 1600 Junction Ave Racine Wis M Ten Bosch Inc 80 Wheeler Ave	-33-34 7 7 7-9 11 18 14 32 34
Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Industries Inc 2601 Colorado Ave Santa Monica Calif Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY Monroe Calculating Machine Co Electronics Div Morris Plains NJ Moog Valve Co Proner Airport E Aurora NY Moran Instrument Corp 170 E Orange Grove Ave Pasadena 3 Calif Morrow Radio Mfg Co 2794 Market St Salem Ore Motoresearch Co 1600 Junction Ave Racine Wis M Ten Bosch Inc 80 Wheeler Ave Pleasantville NY 4-6-16-18-19- Muirhead & Co Ltd	-33-34 7 7 7-9 11 18 14 32 34
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New York Mfg & General Supply 10-38 Jackson Ave Long Island City	1 NY 28
Norden-Ketay Corp	18-29-31
Norma Hoffmann Bearings Corp Walker Div Hamilton Ave	
Stamford Conn North American Instruments Inc	7-8
2420 N Lake St Altadena Calif	9-11-14
Northeastern Eng'g Inc 25 S Bedford St Manchester NH Northern Radio Co	26
Northern Radio Co 143 W 22 St New York 11 NY Northrop Aircraft Inc	16-26
1101 E Broadway Hawthorne Calif Oltronix Corp	13-20
235 Underwood Dr Atlanta 5 Ga Olympic Radio & TV	10
34-01 38 Ava	12-29-30
Omega Instrument Co	20
Onan & Sons D W	20
Onan & Sons D W 2515 University Ave S E Minneapolis 14 Minn Ordnance Eng'g Corp	7-8-9
	26
Oregon Electronic Mfg Co 2105 S E 6 Ave Portland 14 Ore Otis Elevator Co Electronic Div	7
35 Ryerson St	20.00.00
Pace Eng'g Co	
6914 Beck Ave N Hollywood Calif Pacific Scientific Co P O Box 22019 Los Angeles 22 Cali Packard Bell Electronics Corp.	14
	f 6
12333 W Olympic Blvd Los Angeles 64 Calif 7-22-1 Paragon Revolute Corp	26-29-32
77 South Ave Boshoston 4 MV	23
Parker Metal Goods Co 85 Prescott St Worcester 5 Mass	1
Parsons Co Ralph M Electronics Div 151 S De Lacey Ave Pasadena Calif Peerless Electrical Products	20-26
1515 S Manchester Ave Anaheim Cal	if 9
Peerless Photo Products Inc Shoreham LI NY	23
Pegasus Labs Inc 3690 W 11 Mile Rd Berkley Mich	4-20
5900 N Northwest Hwy Chicago 31 U	1 1-11
Pentron Corp	
777 S Tripp Ave Chicago 24 III	11
Pentron Corp 777 S Tripp Ave Chicago 24 Ill Perkin-Elmer Corp Main Ave Norwalk Conn	11 13
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Main Ave Norwalk Conn Permoflux Products Co 4101 San Fernando Rd Glendale Calif Peschel Electronics Inc 13 Garden St New Rochelle NY Petroff Corp Peter A 127 Water St New York 5 NY Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY Philmore Mfg Co 113 University Pl New York 3 NY Plastic Capacitors Inc 2620 N Clybourn Ave Chicago 14 I Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Power Designs Inc 89-25 130 St Richmond Hill 18 NY Power Designs Inc 1005 Olive St Highland Ill Power Transformer Co 91 Edison Pl Newark 5 NJ Premax Products Div Chisholm-Ryder College & Highland Aves Niagara Falls NY Press Wireless Lahs Inc 25 Prospect Pl W Newton 65 Mass Prestor Recording Corp Rox 500 Paramus NJ Prodelin Inc 307 Bergen Ave Kearny NJ Prodelin Inc 307 Bergen Ave Kearny NJ Production Research Corp Thornwood NY 8-14-20-22-24-26-2 PSC Applied Research Ltd 1500 O'Connor Dr Toronto 16 Canada 19 Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada	13 7-8-9-27 7-8 1 19-29 21 11 9 26-32 5 7-8-9 7 Co 2 23 11 2 7-33-34
Main Ave Norwalk Conn Permoflux Products Co 4101 San Fernando Rd Glendale Calif Peschel Electronics Inc 13 Garden St New Rochelle NY Petroff Corp Peter A 127 Water St New York 5 NY Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY Philmore Mfg Co 113 University Pl New York 3 NY Plastic Capacitors Inc 2620 N Clybourn Ave Chicago 14 I Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Power Designs Inc 89-25 130 St Richmond Hill 18 NY Power Supplies Inc 1005 Olive St Highland Ill Power Transformer Co 91 Edison Pl Newark 5 NJ Premax Products Div Chisholm-Ryder College & Highland Aves Niagara Falls NY Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass Prestor Recording Corp Rox 500 Paramus NJ Production Research Corp Thornwood NY Production Research Corp Thornwood NY PSC Apnlied Research Ltd 1500 O'Connor Dr Toronto 16 Canada Pye Canada Ltd R2 Northline Rd Toronto 16 Ontario Canada Pye Canada Ltd Newmarket Rd Cambridge England 19-22-2:	13 7-8-9-27 7-8 1 19-29 21 11 9 26-32 5 7-8-9 7 Co 2 23 11 2 7-33-34 8-29-30
Main Ave Norwalk Conn Permoflux Products Co 4101 San Fernando Rd Glendale Calif Peschel Electronics Inc 13 Garden St New Rochelle NY Petroff Corp Peter A 127 Water St New York 5 NY Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY Philmore Mfg Co 113 University Pl New York 3 NY Plastic Capacitors Inc 2620 N Clybourn Ave Chicago 14 I Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Power Designs Inc 89-25 130 St Richmond Hill 18 NY Power Designs Inc 1005 Olive St Highland III Power Transformer Co 91 Edison Pl Newark 5 NJ Premax Products Div Chisholm-Ryder College & Highland Aves Niagara Falls NY Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass Prestor Recording Corp Rox 500 Paramus NJ Prodelin Inc 307 Bergen Ave Kearny NJ Prodelin Inc 307 Bergen Ave Kearny NJ Production Research Corp Thornwood NY 8-14-20-22-24-26-2 PSC Applied Research Ltd 1500 O'Connor Dr Toronto 16 Canada Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada Pye Telecommunications Ltd Newmarket Rd Cambridge England 19-22-2: Cline Mfg Corp 1562 61 St Brooklyn 19 NY	13 7-8-9-27 7-8 1 19-29 21 11 9 26-32 5 7-8-9 7 Co 2 23 11 2 7-33-34 8-29-30
Main Ave Norwalk Conn Permoflux Products Co 4101 San Fernando Rd Glendale Calif Peschel Electronics Inc 13 Garden St New Rochelle NY Petroff Corp Peter A 127 Water St New York 5 NY Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY Plastic Capacitors Inc 2620 N Clybourn Ave Chicago 14 I Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Power Designs Inc 89-25 130 St Richmond Hill 18 NY Power Designs Inc 89-25 130 St Richmond Hill 18 NY Power Supplies Inc 1005 Olive St Highland Ill Power Transformer Co 91 Edison Pl Newark 5 NJ Premax Products Div Chisholm-Ryder College & Highland Aves Niagara Falls NY Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass Prestor Recording Corp Rox 500 Paramus NJ Production Research Corp Thornwood NY 8-14-20-22-24-26-2 PSC Applied Research Ltd 1500 O'Connor Dr Toronto 16 Canada Pye Canada Ltd Recommunications Ltd Newmarket Rd Cambridge England 19-22-2: Q-Line Mfc Corp 1562 61 St Brooklyn 19 NY Radiaphone Co 600 E Evergreen Ave Monrovia Calif	13 7-8-9-27 7-8 1 19-29 21 11 9 26-32 5 7-8-9 Co 2 23 11 2 7-33-34 8-29-30 5-30-34
Main Ave Norwalk Conn Permoflux Products Co 4101 San Fernando Rd Glendale Calif Peschel Electronics Inc 13 Garden St New Rochelle NY Petroff Corp Peter A 127 Water St New York 5 NY Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY Philmore Mfg Co 113 University Pl New York 3 NY Plastic Capacitors Inc 2620 N Clybourn Ave Chicago 14 I Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Power Designs Inc 89-25 130 St Richmond Hill 18 NY Power Supplies Inc 1005 Olive St Highland Ill Power Transformer Co 91 Edison Pl Newark 5 NJ Premax Products Div Chisholm-Ryder College & Highland Aves Niagara Falls NY Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass Prestor Recording Corp Rox 500 Paramus NJ Prodelin Inc 307 Berren Ave Kearny NJ Production Research Corp Thornwood NY 8-14-20-22-24-26-2 PSC Applied Research Ltd 1500 O'Connor Dr Thornwood NY 8-14-20-22-24-26-2 PSC Applied Research Ltd 82 Northline Rd Toronto 16 Ontario Canada Pye Canada Ltd Re Toronto 16 Ontario Canada Pye Telecommunications Ltd Newmarket Rd Cambridge England 19-22-2: 600 E Evergreen Ave Monrovia Calif Radiation Eng'g Labs Main St Maynard Mass	13 7-8-9-27 7-8 1 19-29 21 11 9 26-32 5 7-8-9 7 Co 2 23 11 2 7-33-34 8-29-30 22-30 5-30-34 1-2
Main Ave Norwalk Conn Permoflux Products Co 4101 San Fernando Rd Glendale Calif Peschel Electronics Inc 13 Garden St New Rochelle NY Petroff Corp Peter A 127 Water St New York 5 NY Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY Philmore Mfg Co 113 University Pl New York 3 NY Plastic Capacitors Inc 2620 N Clybourn Ave Chicago 14 I Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Power Designs Inc 1005 Olive St Highland Ill Power Transformer Co 91 Edison Pl Newark 5 NJ Premax Products Div Chisholm-Ryder College & Highland Aves Niagara Falls NY Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass Prestor Recording Corp Rox 500 Paramus NJ Prodelin Inc 307 Berven Ave Kearny NJ Prodelin Inc 307 Berven Ave Kearny NJ Production Research Corp Thornwood NY 8-14-20-22-24-26-2 PSC Apnlied Research Ltd 1500 O'Connor Dr Toronto 16 Canada Pye Canada Ltd 92 Northline Rd Toronto 16 Ontario Canada Pye Telecommunications Ltd Newmarket Rd Cambridge England 19-22-2: 600 E Evergreen Ave Monrovia Calif Radiation Eng'g Labs Main St Maynard Mass Radiation Inc P O Box 37 Melbourne Fla	13 7-8-9-27 7-8 1 19-29 21 11 9 26-32 5 7-8-9 7 Co 2 23 11 2 7-33-34 8-29-30 22-30 5-30-34 1-2 13
Main Ave Norwalk Conn Permoflux Products Co 4101 San Fernando Rd Glendale Calif Peschel Electronics Inc 13 Garden St New Rochelle NY Petroff Corp Peter A 127 Water St New York 5 NY Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY Philmore Mfg Co 113 University Pl New York 3 NY Plastic Capacitors Inc 2620 N Clybourn Ave Chicago 14 I Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Power Designs Inc 89-25 130 St Richmond Hill 18 NY Power Supplies Inc 1005 Olive St Highland Ill Power Transformer Co 91 Edison Pl Newark 5 NJ Premax Products Div Chisholm-Ryder College & Highland Aves Niagara Falls NY Press Wireless Lahs Inc 25 Prospect Pl W Newton 65 Mass Prestor Recording Corp Rox 500 Paramus NJ Prodelin Inc 307 Bergen Ave Kearny NJ Production Research Corp Thornwood NY 8-14-20-22-24-26-2 PSC Applied Research Ltd 1500 O'Connor Dr Toronto 16 Canada Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada Pye Canada Ltd Newmarket Rd Cambridge England 19-22-2: Q-Line Mfg Corp 1562 61 St Brooklyn 19 NY Radiaphone Co 600 E Evergreen Ave Monrovia Calif Radiation Eng'g Labs Main St Maynard Mass Radiation Inc P O Box 37 Melbourne Fla Radio City Products Co Centre & Glendale Sts Easton Pa	13 7-8-9-27 7-8 1 19-29 21 11 9 26-32 5 7-8-9 7 Co 2 23 11 2 7-33-34 8-29-30 22-30 5-30-34 1-2 13 2
Main Ave Norwalk Conn Permoflux Products Co 4101 San Fernando Rd Glendale Calif Peschel Electronics Inc 13 Garden St New Rochelle NY Petroff Corp Peter A 127 Water St New York 5 NY Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY Plastic Capacitors Inc 2620 N Clybourn Ave Chicago 14 I Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Power Designs Inc 89-25 130 St Richmond Hill 18 NY Power Designs Inc 89-25 130 St Richmond Hill 18 NY Power Supplies Inc 1005 Olive St Highland Ill Power Transformer Co 91 Edison Pl Newark 5 NJ Premax Products Div Chisholm-Ryder College & Highland Aves Niagara Falls NY Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass Prestor Recording Corp Rox 500 Paramus NJ Production Research Corp Thornwood NY 8-14-20-22-24-26-2 PSC Apnlied Research Ltd 1500 O'Connor Dr Toronto 16 Canada Pye Canada Ltd Rye Canada Ltd Rye Canada Ltd Rye Cenada Ltd Cambridge England 9y-2-2-25 Chief Mfc Corp 1562 61 St Brooklyn 19 NY Radiaphone Co 600 E Evergreen Ave Monrovia Calif Radiation Eng'g Labs Main St Maynard Mass Radiation Inc P O Box 37 Melbourne Fla Radio City Products Co	13 7-8-9-27 7-8 1 19-29 21 11 9 26-32 5 7-8-9 Co 2 23 11 2 7-33-34 8-29-30 5-30-34 1-2 13 2 9-26

Radio Receptor Co 240 Wythe Ave Brooklyn 11 NY	29-3
Rahm Instruments Inc 237 Lafayette St	
New York 12 NY 6-14 Rea Co J B	1-19-2
1723 Cloverfield Blvd Santa Monica Ca	alif
Reed & Reese Inc 717 N Lake Ave Pasadena 6 Calif Reeves Instrument Corp	
215 E 91 St New York 28 NY (	3-20-3
Reflectone Corp Boston Post Rd Stamford Conn Reliance Electric and Eng'g Co	4-7-1
24701 Euclid Ave Cleveland 17 Ohio	1
Remington Rand Univac Div Sperry Rand Corp Univac Park	
St Paul 16 Minn Remington Rand Div Sperry Rand Corp	
315 4 Ave New York 10 NY Resdel Eng'g Corp 330 S Fair Oaks Ave	
330 S Fair Oaks Ave Pasadena Calif	3
Revere Corp of America Wallingford Conn	1
Rheem Mfg Co Electronics Div 7777 Industry Ave Rivera Calif	2
Rhein Sound Systems Inc 133 Hamilton St New Haven 5 Conn	33-3
Rich Electronics Inc 212 NW 8 Ave	99-0
Miami 36 Fla 1-3-4-13	-20-2
Riverbank Labs Eng'g Dept P O Box 65 Geneva Ill	
Rubbercraft Corp of Calif 1800 W 220 St Torrance Calif	1
Sanders Associates 25 Canal St Nashua NH	6-3
Schaevitz Eng'g P O Box 505 Camden 1 NJ	1
Schaffer Air Industries 290 N Henry St Brooklyn 22 NY	1
Schutte & Koerting Co Cornwells Heights Bucks Co Pa	1
Seaboard Electric Products Corp	-29-3
Sel-Rex Corp	7-1
155 Manchester Pl Newark 4 NJ Servo Corp of America 2020 Jericho Turnpike	7-1
New Hyde Park NY Servomechanisms Inc	20-2
12500 Aviation Blvd	
Hawthorne Calif 14-18 Servonic Instruments Inc	-20-2
1145 S Fair Oaks Ave Pasadena 2 Calif	1
Servonics Inc	18-2
822 N Henry St Alexandria Va Shepard Labs Inc 480 Morris Ave Summit NJ	;
Signal Transformer Co 902 Coney Island Ave Brooklyn 18 NY	
Simmonds Aerocessories Inc 105 White Plains Rd Tarrytown NY Simplex Equipment Corp	13
Simplex Equipment Corp 55 La France Ave Bloomfield NJ	18
Simpson Electric Co 5200 W Kinzie St Chicago 44 Ill Simpson Mfg Co Mark	13
Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY	27
Skiatron Electronics & TV Corp	
180 Varick St 4-10-16-17- New York 14 NY 23-26-29-30-	31-32
Skysweeper Inc P O Box 92 McHenry Ill	7
Solar Aircraft Co 2200 Pacific Hwy San Diego 12 Calif	4-7-8
Sorenson & Co Stamford Conn	7-9
Sorenson & Co Richards Ave Norwalk Conn	9-17
Southern Instruments Computer Div	
Frimley Rd Camberley Surrey England Southwest Products Inc Alamo Downs Rt 4 San Antonio Texas	13
Specialties Inc	14-18
Skunks Misery Rd Syosset LI NY Sperry Gyroscope Co	
Div Sperry Rand Corp 1-2-3-6-13-18- Great Neck NY 30-	31-32
Spinform Inc 65 Mechanic St Attleboro Mass	1
Spivey Inc James S 4908 Hampden Lane Washington 14 DC	17-26
Springer Aircraft Radio Co Earl W	33-34
Route 11 Box 330 Indianapolis Ind Stancil-Hoffman Corp 921 N Highland Ave	J., -1, 1
Hollywood 38 Calif 10-	11-12
Standard Electrical Products Co 2240 E 3 St Dayton 3 Ohio	7
Statham Labs Inc 12401 W Olympic Blvd	
Los Angeles 64 Calif	14
Stavid Eng'g Inc US Route 22 Plainfield NJ 13-22-26-29-30-	31-20
Stephens Tru-sonic Inc	
Stewart Corp F W	14
4311 Ravenswood Ave Chicago 13 Ill	21

Stewart Warner Electronics Div	Waco Inc	Chicago Industrial Instrument Co
1300 N Kostner Ave 1-2-7-9-17-18-22	2032 Broadway Santa Monica Calif 9	865 N Sangamon St Chicago 22 Ill 17 Christie Electric Corp
Chicago 51 Ill 26-29-30-33-34 Stone City Machine & Tool Co	Waldorf Instrument Co Div F C Huyck & Sons Park Ave	3410 W 67 St Los Angeles 43 Calif 15-17
1206 7 St Bedford Ind 15	Huntington Station NY 4-18-20-29-30	Control Corp
Stratford Corp	Wallson Associates Ltd	718 Central Ave N E Minneapolis 14 Minn 15
44 W 28 St New York 1 NY 4-33	963 Frelinghuysen Ave Newark 12 NJ 9 Waltham Watch Co	Cook Co Frank R 36 S Santa Fe Dr Denver 23 Colo 8-9-11-12
Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd	221 Crescent St Waltham 54 Mass 6	Cornell-Dubilier Electric Corp
Rochester 3 NY 13	Warren Corp J C	333 Hamilton Blvd S Plainfield NJ 15
Superior Electric Co	21 Hanse Ave Freeport NY 12	Dresser Electric Co 942 E Larned Detroit 7 Mich
83 Laurel St Bristol Conn 9	Welch Mfg Co W M 1515 Sedgwick St Chicago 10 Ill 6	942 E Larned Detroit 7 Mich 15 Eagle-Picher Co
Sylvania Electric Products Inc 1740 Broadway	Wells-Gardner & Co	American Bldg Parkway & Walnut
New York 19 NY 18-24-28-29-31-33	2701 N Kildare Ave Chicago 39 Ill 21	Cincinnati 2 Ohio 6-9
Systron Corp	Westbury Electronics Inc	Electric Storage Battery Co Exide Automotive Div 42 S 15 St
2055 Concord Blvd Concord Calif 26 Taffet Radio & TV Co	300 Shames Dr Westbury NY 32 West Coast Electronics Co	Philadelphia 2 Pa 3-11-15-17
27-05 Brooklyn-Queens Expressway W	9261 W 3 St Beverly Hills Calif 7-32	Electronic Batteries Inc
Woodside 77 NY 4-13-27	West Coast Research Corp	28-34 35 St Brooklyn 32 NY
Tatnall Measuring Systems Co	2371½ Westwood Blvd 4-7-13-18-20-21	Electronic Instrument Co 84 Withers St Brooklyn 11 NY
Kimberton Rd Phoenixville Pa 13-14 Technical Appliance Corp	Los Angeles 64 Calif 24-26-29-30 Western Gear Corp Electro Products Div	Elgin National Watch Co
1 Taco St Sherburne NY 1-2	132 W Colorado St Pasadena 1 Calif 9	_ 107 National St Elgin III 7-9
Technical Electronics Corp	Westinghouse Electric Corp	Ercona Corp 551 5 Ave New York 17 NY 6-5
4060 Ince Blvd Culver City Calif 13 TelAutograph Corp	P O Box 868 Pittsburgh 30 Pa 3-6-29-31 Wheeler Insulated Wire Co	Ernst & Affiliates W Arthur
8700 Bellanca Ave	150 E Aurora St Waterbury 20 Conn 9	825 Hayes Ave Racine Wis
Los Angeles 45 Calif 23	White & Sons Wilfrid O	Exide Industrial Div Electric Storage
Telechrome Mfg Corp 28 Ranick Dr Amityville LI NY 7-20-26	178 Atlantic Ave Boston 10 Mass 3 Wiancko Eng'g Co	Battery Co 42 S 15 St Philadelphia 2 Pa 3-11-12-15
28 Ranick Dr Amityville LI NY 7-20-26 Telecommunications Ltd	255 Halstead St Pasadena Calif 14	Fansteel Metallurgical Corp
Newmarket Rd	Wilcox Electric Co	2200 Sheridan Rd N Chicago Ill
Cambridge England 4-13-19-34	1400 Chestnut St Kansas City 27 Mo 29-30	Fisher Scientific Co 711 Forbes St Pittsburgh 22 Pa 15-16
Telectro Industries Corp 35-18 37 St 7-8-9-10-11-12-13	Wilmar Mfg Co 1110 Truman Rd Kansas City Mo 19	Fox Products Co
Long Island City 1 NY 15-26-27-32-34	Wincharger Corp	4720 N 18 St Philadelphia 41 Pa 15-1'
Tele-Dynamics Inc	E 7 & Division St Sioux City 2 Iowa 7-8	General Electric Co Specialty Electronic Components Dept W
32 & Walnut Sts Philadelphia 4 Pa 26 Telemarine Communications Co	Winder Aircraft Corp of Florida P O Box 2397 Drane Field	Genesee St Auburn NY
3040 W 21 St Brooklyn 24 NY 13-33	Lakeland Fla 1-2-4-5-7-8-13-15-20-24-27	General Electric Co Apparatus Sales
Telemeter Magnetics Inc	Z & W Mfg Corp	Div 1 River Rd Schenectady 5 NY
2245 Pontius Ave Los Angeles 64 Calif 18	30240 Lakeland Blvd Wickliffe Ohio 1-2 Zenith Plastics Co	General Nuclear Corp
Telephonics Corp Park Ave Huntington LI NY 5-7-8-9-14-27-33	1600 W 135 St Gardena Calif 2	550 5 Ave New York 32 NY
Tel-Instrument Electronics Corp		General Scientific Equipment Co
728 Garden St Carlstadt NJ 9	10—BATTERIES, CHARGERS	7516 Limekiln Pike Philadelphia 50 Pa 1 Goldak Co
Tenney Eng'g Inc 1090 Springfield Rd Union NJ 13	& ACCESSORIES	1544 W Glenoaks Blvd Glendale 1 Calif 1
Texas Instruments Inc	O ACCESSORIES	Gould-National Batteries Inc
6000 Lemmon Ave	Batteries, dry cell 1	E-1201 First National Bank St Paul 1 Minn 2-3-6-10-11-12-1:
Dallas 9 Texas 18-20-26-27-31 Thompson Products Inc Electronics Div	Batteries, hearing aid 2	Grav Instrument Co
2196 Clarkwood Rd Cleveland 3 Ohio 4-20	Batteries, lead-acid 3	200 E Church Lane Philadelphia 44 Pa 8-10
Times Facsimile Corp	Batteries, mercury 4	Gyro Electronics Co 325 Canal St New York 13 NY
540 W 58 St New York 19 NY 23		OZO CHIMI DO ITOM I TOTAL
		Hal-Hen Co
Topp Industries Inc	Batteries, nickel alkaline 5 Ratteries nickel cadmium 6	Hal-Hen Co 36-14 11 St Long Island City 6 NY 2-13-15
Topp Industries Inc 5255 W 102 St Los Angeles 45 Calif 3-4-13-16-18-19-20-34	Batteries, nickel cadmium 6	36-14 11 St Long Island City 6 NY 2-13-15 Heath Co
5255 W 102 St Los Angeles 45 Calif 3-4-13-16-18-19-20-34 Transco Products Inc	Batteries, nickel cadmium 6 Batteries, nuclear 7	36-14 11 St Long Island City 6 NY 2-13-14 Heath Co 305 Territorial Rd Benton Harbor Mich
5255 W 102 St Los Angeles 45 Calif 3-4-13-16-18-19-20-34 Transco Products Inc 12210 Nebraska Ave	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, sllver 8	36-14 11 St Long Island City 6 NY 2-13-1; Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd
5255 W 102 St Los Angeles 45 Calif 3-4-13-16-18-19-20-34 Transco Products Inc 12210 Nebraska Ave Los Angeles 25 Calif 1-2	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, sllver 8 Batteries, silver zinc 9	36-14 11 St Long Island City 6 NY 2-18-19 Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis
5255 W 102 St Los Angeles 45 Calif 3-4-13-16-18-19-20-34 Transco Products Inc 12210 Nebraska Ave Los Angeles 25 Calif 1-2 Transdyne Corp 7337 Grand Ave Maspeth 78 NY 13	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, silver 8 Batteries, silver zinc 9 Batteries, standard cell 10	36-14 11 St Long Island City 6 NY 2-18-19 Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis Hickok Electrical Instrument Co
5255 W 102 St Los Angeles 45 Calif 3-4-13-16-18-19-20-34 Transco Products Inc 12210 Nebraska Ave Los Angeles 25 Calif 1-2 Transdyne Corp 7337 Grand Ave Maspeth 78 NY 13 Trans Electronics Inc	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, silver 8 Batteries, silver zinc 9 Batteries, standard cell 10 Batteries, storage 11	36-14 11 St Long Island City 6 NY 2-18-19 Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio
5255 W 102 St	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, sllver 8 Batteries, silver zinc 9 Batteries, standard cell 10 Batteries, storage 11 Batteries, storage nonspill 12	36-14 11 St Long Island City 6 NY 2-18-19 Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis Hickok Electrical Instrument Co
5255 W 102 St Los Angeles 45 Calif 3-4-13-16-18-19-20-34 Transco Products Inc 12210 Nebraska Ave Los Angeles 25 Calif 1-2 Transdyne Corp 7337 Grand Ave Maspeth 78 NY 13 Trans Electronics Inc 7349 Canoga Ave Canoga Park Calif 9 Transonic Ine	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, silver 8 Batteries, silver zinc 9 Batteries, standard cell 10 Batteries, storage 11 Batteries, storage nonspill 12 Batteries, transistor 13	36-14 11 St Long Island City 6 NY 2-18-19 Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio Hobart Bros Hobart Square E Troy 3 Ohio Homelite Diy Textron Inc
5255 W 102 St	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, sllver 9 Batteries, silver zinc 9 Batteries, standard cell 10 Batteries, storage 11 Batteries, storage nonspill 12 Batteries, transistor 13 Battery adapters 14	36-14 11 St Long Island City 6 NY 2-18-19 Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio Hobart Bros Hobart Square E Troy 3 Ohio Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY
5255 W 102 St   Los Angeles 45 Calif   3-4-13-16-18-19-20-34     Transco Products Inc   12210 Nebraska Ave   Los Angeles 25 Calif   1-2     Transdyne Corp   7337 Grand Ave Maspeth 78 NY   13     Trans Electronics Inc   7349 Canoga Ave Canoga Park Calif   9     Transonic Inc   808 16 St Bakersfield Calif   7-9     Transval Eng'g Corp   10401 W Jefferson Blvd   7-9   7-9     Transval Eng'g Corp   10401 W Jefferson Blvd   7-9   7-9     Transval Eng'g Corp   10401 W Jefferson Blvd   7-9   7-9     Transval Eng'g Corp   10401   7-9   7-9   7-9   7-9     Transval Eng'g Corp   10401   7-9   7-9   7-9   7-9   7-9     Transval Eng'g Corp   10401   7-9   7	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, silver 8 Batteries, silver zinc 9 Batteries, standard cell 10 Batteries, storage 11 Batteries, storage nonspill 12 Batteries, transistor 13 Battery adapters 14 Battery chargers 15	36-14 11 St Long Island City 6 NY 2-18-19 Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio Hobart Bros Hobart Square E Troy 3 Ohio Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Research Labs Div Aeronca
September   Sept	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, silver 8 Batteries, silver zinc 9 Batteries, standard cell 10 Batteries, storage 11 Batteries, storage nonspill 12 Batteries, transistor 13 Battery adapters 14 Battery chargers 15	36-14 11 St Long Island City 6 NY 2-18-19 Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio Hobart Bros Hobart Square E Troy 3 Ohio Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Research Lahs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md
5255 W 102 St   Los Angeles 45 Calif   3-4-13-16-18-19-20-34     Transco Products Inc   12210 Nebraska Ave   Los Angeles 25 Calif   1-2     Transdyne Corp   7337 Grand Ave Maspeth 78 NY   13     Trans Electronics Inc   7349 Canoga Ave Canoga Park Calif   9     Transonic Inc   808 16 St Bakersfield Calif   7-9     Transval Eng'g Corp   10401 W Jefferson Blvd   Culver City Calif   11-13-29-38     TV Specialty Co   350 W 31 St New York 1 NY   10	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, sllver 9 Batteries, silver zinc 9 Batteries, standard cell 10 Batteries, storage 11 Batteries, storage nonspill 12 Batteries, transistor 13 Battery adapters 14	36-14 11 St Long Island City 6 NY 2-18-19 Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio Hobart Bros Hobart Square E Troy 3 Ohio Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Research Lahs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Interelectronics
5255 W 102 St Los Angeles 45 Calif 3-4-13-16-18-19-20-34 Transco Products Inc 12210 Nebraska Ave Los Angeles 25 Calif 1-2 Transdyne Corp 7337 Grand Ave Maspeth 78 NY 13 Trans Electronics Inc 7349 Canoga Ave Canoga Park Calif 9 Transonic Inc 808 16 St Bakersfield Calif 7-9 Transval Eng'g Corp 10401 W Jefferson Blvd Culver City Calif 11-13-29-33 TV Specialty Co 350 W 31 St New York 1 NY 10 Ultradyne Eng'g Labs	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, sllver 8 Batteries, silver zinc 9 Batteries, standard cell 10 Batteries, storage 11 Batteries, storage nonspill 12 Batteries, transistor 13 Battery adapters 14 Battery chargers 15 Battery charging regulators 16 Battery testers 17	36-14 11 St Long Island City 6 NY 2-18-19 Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio Hobart Bros Hobart Square E Troy 3 Ohio Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Interelectronics 2432 Grand Concourse
September   Sept	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, silver 8 Batteries, silver zinc 9 Batteries, standard cell 10 Batteries, storage 11 Batteries, storage nonspill 12 Batteries, transistor 13 Battery adapters 14 Battery chargers 15 Battery charging regulators 16 Battery testers 17  Acme Battery Corp	36-14 11 St Long Island City 6 NY 2-18-19 Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio Hobart Bros Hobart Square E Troy 3 Ohio Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Research Lahs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Interelectronics 2432 Grand Concourse New York 58 NY Kenco Labs
5255 W 102 St Los Angeles 45 Calif 3-4-13-16-18-19-20-34 Transco Products Inc 12210 Nebraska Ave Los Angeles 25 Calif 1-2 Transdyne Corp 7337 Grand Ave Maspeth 78 NY 13 Trans Electronics Inc 7349 Canoga Ave Canoga Park Calif 9 Transonic Inc 808 16 St Bakersfield Calif 7-9 Transval Eng'g Corp 10401 W Jefferson Blvd Culver City Calif 11-13-29-33 TV Specialty Co 350 W 31 St New York 1 NY 10 Ultradyne Eng'g Labs P O Box 3308 Albuquerque New Mex Union Switch & Signal Div Westinghouse Air Brake Co Braddock Ave	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, silver 8 Batteries, silver zinc 9 Batteries, standard cell 10 Batteries, storage 11 Batteries, storage nonspill 12 Batteries, transistor 13 Battery adapters 14 Battery chargers 15 Battery charging regulators 16 Battery testers 17  Acme Battery Corp 17  Acme Battery Corp 1-2-13 Accurate Electronics Corp	36-14 11 St Long Island City 6 NY 2-18-19 Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio Hobart Bros Hobart Square E Troy 3 Ohio Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Research Lahs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Interelectronics 2432 Grand Concourse New York 58 NY Kepco Labs 131-38 Sanford Ave Flushing NY 15-1
September   Sept	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, silver 8 Batteries, silver zinc 9 Batteries, silver zinc 10 Batteries, standard cell 10 Batteries, storage nonspill 12 Batteries, storage nonspill 12 Batteries, transistor 13 Battery adapters 14 Battery adapters 15 Battery chargers 15 Battery charging regulators 16 Battery testers 17  Acme Battery Corp 200 Henry St Stamford Conn 1-2-13 Accurate Electronics Corp 169 S Abbe Rd W Elyria Ohio 14	36-14 11 St Long Island City 6 NY 2-18-19 Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio Hobart Bros Hobart Square E Troy 3 Ohio Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Research Lahs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Interelectronics 2432 Grand Concourse New York 58 NY Kepco Labs 131-38 Sanford Ave Flushing NY King Electric Equipment Co
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September   Sept	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, sllver 8 Batteries, silver zinc 9 Batteries, standard cell 10 Batteries, storage 11 Batteries, storage 11 Batteries, storage nonspill 12 Batteries, transistor 13 Battery adapters 14 Battery chargers 15 Battery charging regulators 16 Battery testers 17  Acme Battery Corp 200 Henry St Stamford Conn 1-2-13 Accurate Electronics Corp 169 S Abbe Rd W Elyria Ohio 14 Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 15 Aerolite Electronics Corp 507 26 St Union City NJ 14	36-14 11 St Long Island City 6 NY 2-18-19 Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio Hobart Bros Hobart Square E Troy 3 Ohio Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Interelectronics 2432 Grand Concourse New York 58 NY Kepco Labs 131-38 Sanford Ave Flushing NY King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio Knopp Inc 4224 Holden St Oakland 8 Calif Lee Electric & Mfg Co
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September   Sept	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, sllver 8 Batteries, silver zinc 9 Batteries, standard cell 10 Batteries, storage 11 Batteries, storage 11 Batteries, storage nonspill 12 Batteries, transistor 13 Battery adapters 14 Battery chargers 15 Battery charging regulators 16 Battery testers 17  Acme Battery Corp 200 Henry St Stamford Conn 1-2-13 Accurate Electronics Corp 169 S Abbe Rd W Elyria Ohio 14 Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 15 Aerolite Electronics Corp 507 26 St Union City NJ 14	36-14 11 St Long Island City 6 NY 2-13-14 Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio Hobart Bros Hobart Square E Troy 3 Ohio Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Research Lahs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Interelectronics 2432 Grand Concourse New York 58 NY Kepco Labs 131-38 Sanford Ave Flushing NY King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio Knopp Inc 4224 Holden St Oakland 8 Calif Lee Electric & Mfg Co 2806 Clearwater St Los Angeles 39 Calif Lincoln Electric Co 22801 St Clair Ave Cleveland 17 Ohio
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September   Sept	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, sllver 8 Batteries, silver zinc 9 Batteries, standard cell 10 Batteries, standard cell 10 Batteries, storage 11 Batteries, storage 11 Batteries, storage nonspill 12 Batteries, transistor 13 Battery adapters 14 Battery chargers 15 Battery chargers 15 Battery charging regulators 16 Battery charging regulators 16 Battery testers 17  Acme Battery Corp 200 Henry St Stamford Conn 1-2-13 Accurate Electronics Corp 169 S Abbe Rd W Elyria Ohio 14 Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 15 Aerolite Electronics Corp 507 26 St Union City NJ 14 Airmec Ltd High Wycombe Buckinghamshire England 15 Aloe Scientific 5655 Kingsbury Blvd St Louis 12 Mo 1-3-5 American Machine & Foundry Co Defense Products Group 1101 N Royal St Alexandria Va 9-14 American Television & Radio Co	36-14 11 St Long Island City 6 NY 2-13-14 Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio Hobart Bros Hobart Square E Troy 3 Ohio Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Research Lahs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Interelectronics 2432 Grand Concourse New York 58 NY Kepco Labs 131-38 Sanford Ave Flushing NY King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio Knopp Inc 4224 Holden St Oakland 8 Calif Lee Electric & Mfg Co 22806 Clearwater St Los Angeles 39 Calif Lincoln Electric Co 22801 St Clair Ave Cleveland 17 Ohio Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY Mallory Battery Co Div P R Mallory & Co 13000 Athens Ave Cleveland 7 Ohio 1-2-4-1
September   Sept	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, sulver 8 Batteries, silver zinc 9 Batteries, silver zinc 10 Batteries, standard cell 10 Batteries, storage 11 Batteries, storage nonspill 12 Batteries, transistor 13 Battery adapters 14 Battery adapters 15 Battery chargers 15 Battery charging regulators 16 Battery testers 17  Acme Battery Corp 200 Henry St Stamford Conn 1-2-13 Accurate Electronics Corp 169 S Abbe Rd W Elyria Ohio 14 Adler Electronics Corp 507 26 St Union City NJ 14 Airmec Ltd High Wycombe Buckinghamshire England 15 Aloe Scientific 5655 Kingsbury Blvd St Louis 12 Mo 1-3-5 American Machine & Foundry Co Defense Products Group 1101 N Royal St Alexandria Va American Television & Radio Co 300 E 4 St St Paul 1 Minn 15	36-14 11 St Long Island City 6 NY 2-13-15 Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio Hobart Bros Hobart Square E Troy 3 Ohio Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Research Lahs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Interelectronics 2432 Grand Concourse New York 58 NY Kepco Labs 131-38 Sanford Ave Flushing NY Kepco Labs 131-38 Sanford Ave Flushing NY King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio Knopp Inc 4224 Holden St Oakland 8 Calif Lee Electric & Mfg Co 2806 Clearwater St Los Angeles 39 Calif 1 Lincoln Electric Co 22801 St Clair Ave Cleveland 17 Ohio Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY Mallory Battery Co Div P R Mallory & Co 13000 Athens Ave Cleveland 7 Ohio Mallory & Co Inc P R
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September   Sept	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, sulver 8 Batteries, silver zinc 9 Batteries, silver zinc 9 Batteries, standard cell 10 Batteries, storage 11 Batteries, storage nonspill 12 Batteries, transistor 13 Battery adapters 14 Battery adapters 15 Battery chargers 15 Battery charging regulators 16 Battery charging regulators 16 Battery testers 17  Acme Battery Corp 200 Henry St Stamford Conn 1-2-13 Accurate Electronics Corp 169 S Abbe Rd W Elyria Ohio 14 Adler Electronics Corp 507 26 St Union City NJ 14 Airmec Ltd High Wycombe Buckinghamshire England 15 Aloe Scientific 5655 Kingsbury Blvd St Louis 12 Mo 1-3-5 American Machine & Foundry Co Defense Products Group 1101 N Royal St Alexandria Va 9-14 American Television & Radio Co 300 E 4 St St Paul 1 Minn 15 Assembly Products Inc Wilson Mills Rd Chesterland 1 Ohio 16 Automatic Electric Co 1033 W Van Buren St Chicago 7 Ill 15 Basler Electric Co	36-14 11 St Long Island City 6 NY 2-13-14 Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio Hobart Bros Hobart Square E Troy 3 Ohio Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Research Lahs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Interelectronics 2432 Grand Concourse New York 58 NY 11-12-15 Kepco Labs 131-38 Sanford Ave Flushing NY King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio Knopp Inc 4224 Holden St Oakland 8 Calif Lee Electric & Mfg Co 22801 St Clair Ave Cleveland 17 Ohio Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY Mallory Battery Co Div P R Mallory & Co 13000 Athens Ave Cleveland 7 Ohio Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind Marathon Battery Co 840 Henrietta St Wausau Wis 1-2-1 Melco Products Inc 301 5 Ave S Minneapolis 15 Minn Mobil Electronics Mfg Co
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September 1 September 200 Sept	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, sllver 8 Batteries, silver zinc 9 Batteries, silver zinc 9 Batteries, standard cell 10 Batteries, storage 11 Batteries, storage nonspill 12 Batteries, storage nonspill 12 Batteries, transistor 13 Batteries, transistor 14 Battery adapters 14 Battery chargers 15 Battery charging regulators 16 Battery charging regulators 16 Battery testers 17  Acme Battery Corp 200 Henry St Stamford Conn 1-2-13 Accurate Electronics Corp 169 S Abbe Rd W Elyria Ohio 14 Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 15 Aerolite Electronics Corp 507 26 St Union City NJ 14 Airmec Ltd High Wycombe Buckinghamshire England 15 Aloe Scientific 5655 Kingsbury Blvd St Louis 12 Mo 1-3-5 American Machine & Foundry Co Defense Products Group 1101 N Royal St Alexandria Va American Television & Radio Co 300 E 4 St St Paul 1 Minn 15 Assembly Products Inc Wilson Mills Rd Chesterland 1 Ohio 16 Automatic Electric Co 1033 W Van Buren St Chicago 7 III 15 Basler Electric Co 601 5 St Highland III Berger Communications 109-01 72 Rd Forest Hills LI NY 7 Bogue Electric Mfg Co 10wa Ave Paterson 3 NJ 15-16-17 Bowers Battery & Spark Pluc Co P O Box 1262 Reading Pa 3-11-12	36-14 11 St Long Island City 6 NY 2-13-14 Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio Hobart Bros Hobart Square E Troy 3 Ohio Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Research Lahs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Interelectronics 2432 Grand Concourse New York 58 NY Kepco Labs 131-38 Sanford Ave Flushing NY King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio Knopp Inc 4224 Holden St Oakland 8 Calif Lee Electric & Mfg Co 2806 Clearwater St Los Angeles 39 Calif Lincoln Electric Co 22801 St Clair Ave Cleveland 17 Ohio Mannetic Amplifiers Inc 632 Tinton Ave New York 55 NY Mallory Battery Co Div P R Mallory & Co 13000 Athens Ave Cleveland 7 Ohio Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind Marathon Battery Co 840 Henrietta St Wausau Wis Melco Products Inc 301 5 Ave S Minneapolis 15 Minn Mobil Electronics Mfg Co 1111 State Rd 67 E Anderson Ind Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY National Carbon Co Div Union
September 1 State    Signal Div Westinghouse    Los Angeles 45 Calif  3-4-13-16-18-19-20-34   Transco Products Inc   12210 Nebraska Ave   Los Angeles 25 Calif  1-2   Transdyne Corp   7337 Grand Ave Maspeth 78 NY 13   Trans Electronics Inc   7349 Canoga Ave Canoga Park Calif  9   Transonic Inc   808 16 St Bakersfield Calif  7-9   Transonic Inc   808 16 St Bakersfield Calif  11-13-29-33   TV Specialty Corp   10401 W Jefferson Blvd   Culver City Calif  11-13-29-33   TV Specialty Co   350 W 31 St New York 1 NY 10   Ultradyne Eng'g Labs  P O Box 3308 Albuquerque New Mex  14   Union Switch & Signal Div Westinghouse   Air Brake Co Braddock Ave   Pittsburgh 18 Pa  24   United Control Corp   45-40 Union Bay Pl Seattle 5 Wash 4-13-20   United Electric Controls Co   85 School St Watertown 72 Mass  4   United Electric Controls Co   85 School St Watertown 72 Mass  4   United Electrodynamics   1200 S Marengo Ave Pasadena Calif 22-26-32   United Transformer Corp Pacific Div   4008 W Jefferson Blvd   Los Angeles 16 Calif	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, sllver 8 Batteries, silver zinc 9 Batteries, silver zinc 9 Batteries, standard cell 10 Batteries, standard cell 10 Batteries, storage 11 Batteries, storage nonspill 12 Batteries, storage nonspill 12 Batteries, transistor 13 Battery adapters 14 Battery chargers 15 Battery chargers 15 Battery charging regulators 16 Battery testers 17  Acme Battery Corp 169 S Abbe Rd W Elyria Ohio 14 Adler Electronics Corp 169 S Abbe Rd W Elyria Ohio 14 Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 15 Aerolite Electronics Corp 507 26 St Union City NJ 14 Airmec Ltd High Wycombe Buckinghamshire England 15 Aloe Scientific 5655 Kingsbury Blvd St Louis 12 Mo 1-3-5 American Machine & Foundry Co Defense Products Group 1101 N Royal St Alexandria Va 9-14 American Television & Radio Co 300 E 4 St St Paul 1 Minn 15 Assembly Products Inc Wilson Mills Rd Chesterland 1 Ohio 16 Automatic Electric Co 601 5 St Highland III Berger Communications 109-01 72 Rd Forest Hills LI NY 7 Bogue Electric Mfg Co Lowa Ave Paterson 3 NJ 15-16-17 Bowers Battery & Spark Pluc Co P O Box 1262 Reading Pa 3-11-12 Bright Star Industries	36-14 11 St Long Island City 6 NY 2-13-14 Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio Hobart Bros Hobart Square E Troy 3 Ohio Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Research Lahs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Interelectronics 2432 Grand Concourse New York 58 NY Kepco Labs 131-38 Sanford Ave Flushing NY King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio Knopp Inc 4224 Holden St Oakland 8 Calif Lee Electric & Mfg Co 2806 Clearwater St Los Angeles 39 Calif 1 Lincoln Electric Co 22801 St Clair Ave Cleveland 17 Ohio Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY Mallory Battery Co Div P R Mallory & Co 13000 Athens Ave Cleveland 7 Ohio Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind Marathon Battery Co 840 Henrietta St Wausau Wis Melco Products Inc 301 5 Ave S Minneapolis 15 Minn Mobil Electronics Mfg Co 1111 State Rd 67 E Anderson Ind Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY National Carbon Corp 30 E 42 St New York 17 NY Nickel Cadmium Battery Corp Pleasant St
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September 10 St. Register St.	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, sllver 8 Batteries, silver zinc 9 Batteries, standard cell 10 Batteries, standard cell 10 Batteries, storage 11 Batteries, storage nonspill 12 Batteries, storage nonspill 12 Batteries, transistor 13 Batteries, transistor 13 Battery adapters 14 Battery chargers 15 Battery charging regulators 16 Battery charging regulators 16 Battery testers 17  Acme Battery Corp 200 Henry St Stamford Conn 1-2-13 Accurate Electronics Corp 169 S Abbe Rd W Elyria Ohio 14 Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 15 Aerolite Electronics Corp 507 26 St Union City NJ 14 Airmec Ltd High Wycombe Buckinghamshire England 15 Aloe Scientific 5655 Kingsbury Blyd St Louis 12 Mo 1-3-5 American Machine & Foundry Co Defense Products Group 1101 N Royal St Alexandria Va 39-14 American Television & Radio Co 300 E 4 St St Paul 1 Minn 15 Assembly Products Inc Wilson Mills Rd Chesterland 1 Ohio 16 Automatic Electric Co 1033 W Van Buren St Chicago 7 III 15 Basler Electric Co 601 5 St Highland III Berger Communications 109-01 72 Rd Forest Hills LI NY 7 Bogue Electric Mfg Co 10wa Ave Paterson 3 NJ 15-16-17 Bowers Battery & Spark Plug Co P O Box 1262 Reading Pa 3-11-12 Bright Star Industries 600 Getty Ave Clifton NJ 1 Bundy Electronics Corp 171 Fabyan Pl Newark 12 NJ 15 Burgess Battery Co	36-14 11 St Long Island City 6 NY 2-13-14 Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio Hobart Bros Hobart Square E Troy 3 Ohio Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Research Lahs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Interelectronics 2432 Grand Concourse New York 58 NY Kepco Labs 131-38 Sanford Ave Flushing NY King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio Knopp Inc 4224 Holden St Oakland 8 Calif Lee Electric & Mfg Co 2806 Clearwater St Los Angeles 39 Calif Lincoln Electric Co 22801 St Clair Ave Cleveland 17 Ohio Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY Mallory Battery Co Div P R Mallory & Co 13000 Athens Ave Cleveland 7 Ohio Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind Marathon Battery Co 840 Henrietta St Wausau Wis 1-2-4 Melco Products Inc 301 5 Ave S Minneapolis 15 Minn Mobil Electronics Mfg Co 1111 State Rd 67 E Anderson Ind Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY National Carbon Co Div Union Carbide & Carbon Corp 30 E 42 St New York 17 NY Nickel Cadmium Battery Corp Pleasant St Easthampton Mass 2-5-6-9-11-12-1 N J E Corp 345 Carnegie Ave Kenilworth NJ 15-1
September 1 September 200 Sept	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, sulver 8 Batteries, silver zinc 9 Batteries, silver zinc 9 Batteries, standard cell 10 Batteries, standard cell 10 Batteries, storage 11 Batteries, storage nonspill 12 Batteries, transistor 13 Battery chargers 14 Battery chargers 15 Battery chargers 15 Battery charging regulators 16 Battery testers 17  Acme Battery Corp 200 Henry St Stamford Conn 1-2-13 Accurate Electronics Corp 169 S Abbe Rd W Elyria Ohio 14 Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 15 Aerolite Electronics Corp 507 26 St Union City NJ 14 Airmec Ltd High Wycombe Buckinghamshire England 15 Aloe Scientific 5655 Kingsbury Blvd St Louis 12 Mo 1-3-5 American Machine & Foundry Co Defense Products Group 1101 N Royal St Alexandria Va American Television & Radio Co 300 E 4 St St Paul 1 Minn 15 Assembly Products Inc Wilson Mills Rd Chesterland 1 Ohio 16 Automatic Electric Co 1033 W Van Buren St Chicago 7 III 15 Basler Electric Co 1033 W Van Buren St Chicago 7 III 15 Basler Electric Co 1008 Ave Paterson 3 NJ 15-16-17 Bowers Battery & Spark Plug Co P O Box 1262 Reading Pa 3-11-12 Bright Star Industries 600 Getty Ave Clifton NJ 1 Bundy Electronics Corp 171 Fabyan Pl Newark 12 NJ 15 Burgess Battery Co Freeport III 15 Burgess Battery Co Freeport III 16-2-10-13	36-14 11 St Long Island City 6 NY 2-13-14 Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio Hobart Bros Hobart Square E Troy 3 Ohio Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Research Lahs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Interelectronics 2432 Grand Concourse New York 58 NY Kepco Labs 131-38 Sanford Ave Flushing NY King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio Inc 4224 Holden St Oakland 8 Calif Lee Electric & Mfg Co 2806 Clearwater St Los Angeles 39 Calif Lincoln Electric Co 22801 St Clair Ave Cleveland 17 Ohio Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY Mallory Battery Co Div P R Mallory & Co 13000 Athens Ave Cleveland 7 Ohio Malory & Co Inc P R 42 S Gray St Indianapolis 6 Ind Malory & Co Inc P R 42 S Gray St Indianapolis 6 Ind Marathon Battery Co 840 Henrietta St Wausau Wis Melco Products Inc 301 5 Ave S Minneapolis 15 Minn Mobil Electronics Mfg Co 1111 State Rd 67 E Anderson Ind Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY National Carbon Co Div Union Carbide & Carbon Corp 30 E 42 St New York 17 NY National Carbon Co Div Union Carbide & Carbon Corp 30 E 42 St New York 17 NY Nickel Cadmium Battery Corp Pleasant St Easthampton Mass 2-5-6-9-11-12-1 Norma Hoffman Bearings Corp Walker Div Hamilton Ave
September 1 September 2018 September	Batteries, nickel cadmium 6 Batteries, nuclear 7 Batteries, sllver 8 Batteries, silver zinc 9 Batteries, silver zinc 9 Batteries, standard cell 10 Batteries, standard cell 10 Batteries, storage 11 Batteries, storage nonspill 12 Batteries, storage nonspill 12 Batteries, transistor 13 Battery adapters 14 Battery chargers 15 Battery chargers 15 Battery charging regulators 16 Battery testers 17  Acme Battery Corp 169 S Abbe Rd W Elyria Ohio 14 Adler Electronics Corp 169 S Abbe Rd W Elyria Ohio 14 Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 15 Aerolite Electronics Corp 507 26 St Union City NJ 14 Airmec Ltd High Wycombe Buckinghamshire England 15 Aloe Scientific 5655 Kingsbury Blvd St Louis 12 Mo 1-3-5 American Machine & Foundry Co Defense Products Group 1101 N Royal St Alexandria Va 9-14 American Television & Radio Co 300 E 4 St St Paul 1 Minn 15 Assembly Products Inc Wilson Mills Rd Chesterland 1 Ohio 16 Automatic Electric Co 601 5 St Highland III Berger Communications 109-01 72 Rd Forest Hills LI NY 7 Bogue Electric Mfg Co Lowa Ave Paterson 3 NJ 15-16-17 Bowers Battery & Spark Pluc Co P O Box 1262 Reading Pa 3-11-12 Bright Star Industries 600 Getty Ave Clifton NJ 1 Bundy Electronics Corp 171 Fabyan Pl Newark 12 NJ 15 Burgess Battery Co Freeport III 1-2-10-13	36-14 11 St Long Island City 6 NY 2-13-14 Heath Co 305 Territorial Rd Benton Harbor Mich Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio Hobart Bros Hobart Square E Troy 3 Ohio Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Research Lahs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Interelectronics 2432 Grand Concourse New York 58 NY Kepco Labs 131-38 Sanford Ave Flushing NY King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio Knopp Inc 4224 Holden St Oakland 8 Calif Lee Electric & Mfg Co 2806 Clearwater St Los Angeles 39 Calif Lincoln Electric Co 22801 St Clair Ave Cleveland 17 Ohio Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY Mallory Battery Co Div P R Mallory & Co 13000 Athens Ave Cleveland 7 Ohio Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind Marathon Battery Co 840 Henrietta St Wausau Wis 1-2-4 Melco Products Inc 301 5 Ave S Minneapolis 15 Minn Mobil Electronics Mfg Co 1111 State Rd 67 E Anderson Ind Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY National Carbon Co Div Union Carbide & Carbon Corp 30 E 42 St New York 17 NY Nickel Cadmium Battery Corp Pleasant St Easthampton Mass 2-5-6-9-11-12-1 N J E Corp 345 Carnegie Ave Kenilworth NJ 15-1

North Electric Co	A A Metal Products Inc	Chicago Industrial Instrument Co
553 S Market St Galion Ohio 15 Olin Mathieson Chemical Corp	154 Elliot St Brattleboro Vt 8-14	865 N Sangamon St Chicago 22 III 21-22
460 Park Ave New York 22 NY 1 Onan & Sons D W	Abalon Precision Mfg Corp 540 Casanova St	Christiansen Co C B 164 Pennington St Newark 5 NJ 16
2515 University Ave S E	New York 59 NY 8-21-22-24-26-28	Churchill Lighting Corp
Minneapolis 14 Minn	Accurate Electronics Corp 169 S Abbe Rd W Elyria Ohio 3-25-27	344 Franklin St Melrose 76 Mass 4-8-11-14-21-22-26-28
Philco Corp Accessory Div "A"  Allegheny Ave Philadelphia 34 Pa 1-4-13	ACF Industries Nuclear Prods-Erco Div	Cinch Mfg Corp
rower supplies Inc	48 Lafayette St Riverdale Md 7-8-28 Ackerman Engravers	1026 S Homan Ave Chicago 24 III 3 Collins Radio Co
1005 Olive St Highland Ill 15 Power Transformer Co	458 Broadway New York 13 NY 26-27 Acromark Co	855 35 St N E Cedar Rapids Iowa 1-7-8-28
91 Edison Pl Newark 5 NJ 15	443 Morrell St Elizabeth 4 NJ 26-27	Columbia Metal Box Co 260 E 143 St New York 51 NY 8-14-21-22
Precise Development Corp 2 Neil Ct Oceanside NY 17	Adler Electronics Inc	Commercial Radio Sound Corp
Radiation Research Corp	1 LeFevre Lane New Rochelle NY 15-28 Aerolite Electronics Corp	652 1 Ave New York 16 NY Communication Equipment & Eng'g Co
140 E 59 St New York 22 NY Radio Corp of America	507 26 St Union City NJ 25 Actna Felt Co	5646 W Race Ave Chicago 44 Ill 8-15-22
415 S 5 St Harrison NJ 1-4-13 Radio Kits Inc	204 Centre St New York 13 NY 18	Conrad & Moser 2 Borden Ave
120 Cedar St New York 6 NY	Ainslie Corp 312 Quincy Ave Quincy 69 Mass 16	Long Island City 1 NY 8-15-21-22
Ray-O-Vac Co 212 E Washington Ave	Airflo Instrument Co	Consolidated Productions Inc Broward Int'l Airport
Madison Wis 1951010	53 Addison Rd Glastonbury Conn 27 Air Transport Mfg Co 1-4-5-6-7-8-11-12	Ft Lauderdale Fla 3-7-8-14-15 Controlled Atmosphere Enclosures Corp
Raytheon Mfg Co	1114 N Sycamore Ave 13-14-15-16-17-21	230-11 141 Ave 1-4-5-9-11
Rectiner Engig Co	Los Angeles 38 Calif 22-24-26-28-29-30 Alden Products Co	Springfield Gardens 13 LI NY 21-27-31 Control Specialty Corp
1803 E 7 St Los Angeles 21 Calif 15-17 Schauer Mfg Corp	123A N Main St	1515 Spring Houston 5 Texas 15
4501 Alpine Ave Rossmovne Ohio 15	Brockton Mass 8-11-14-21-22-28 Allied Eng'g & Production Corp	Corrugated Paper Products 2233 Utica Ave Brooklyn 34 NY 4
Scientific Glass Apparatus Co 100 Lakewood Terrace Bloomfield NJ 1-11-13	2421 Blanding Ave Alameda Calif 9-16	Corry-Jamestown Mfg Corp
Sel-nex Corp	Allied Engraving & Stamping Co 17 Elm St Buffalo 3 NY 26-27	43 N Center St Corry Pa 7-8-15 Cossor (Canada) Ltd
155 Manchester Pl Newark 4 NJ 15 Sensitive Research Instrument Corp	Allied Fabricating Corp	301 Windsor St
310 Main St New Rochelle NY 17 Shurite Meters	1538 N Clybourn Ave Chicago 10 Ill 8-22-26-28	Halifax Nova Scotia Canada 8 Craig Systems Inc
61 Hamilton St New Haven 8 Conn	Allied Radio Corp	90 Holten St
Simpson Electric Co	Alloy Metalsmiths Inc	Danvers Mass 4-5-8-9-11-15-16-22-28 Croname Inc
5200 W Kinzie St Chicago 44 III 17 Standard Electric Time Co	89 Commerce Rd Cedar Grove NJ 14-15-28 Altec Lansing Corp	3701 Ravenswood Ave
89 Logan St Springfield 2 Mass 5-15	1515 S Manchester Ave Anaheim Calif 8-28	Chicago 13 III 8-21-22-26 Crystalx-Westlake Corp
Stewart Warner Electronics Div 1300 N Kostner Ave Chicago 51 III 14	American Machine & Foundry Co Defense Products Group 1101 N Royal St	Lenni Rd Lenni Mills Pa 27 Dahlstrom Metallic Door Co
Stone City Machine & Tool Co	Alexandria Va 8-15-21-26-28	Buffalo & 2 Sts Jamestown NY 4-8-11-21-26
1206 7 St Bedford Ind 15 Telectro Industries Corp	Amco Eng'g Co 7333 W Ainslie St	Daven Co Route 10 Livingston NJ 4-10
35-18 37 St Long Island City 1 NY 15-16	Chicago 31 Ill 7-8-15-21-22-26-28	Devco Eng'g Inc
IV Specialty Co	American Insulator Corp New Freedom Pa	P O Box 387 Caldwell NJ 21-22-26 Dittmore-Freimuth Corp
United Transformer Corp	Anchor Specialty Mfg Co	2517 E Norwich St Milwaukee 7 Wis 22
150 Varick St New York 13 NY 16 U S Dynamics Corp	Hollister Rd Teterboro NJ 8-10-15-28 Anderson & Sons	Dolin Metal Products Inc 315 Lexington Ave Brooklyn 16 NY 8-22
1250 Columbus Ave Boston 20 Mass 6-15	N Elm St Westfield Mass 26	Donnelly Mfg Co
Welch Mfg Co W M	Apex Coated Fabrics Co 12 E 22 St New York 10 NY 23	580 Winter St Waltham 54 Mass 14-15-22-24-26-28
1515 Sedgwick St Chicago 10 III 15 Willard Storage Battery	Apollo Metal Works 6651 S Oak Park Ave Chicago 38 III 26	Downing Crystal Co
246 E 131 St	Argos Products Co	191 Shaffer Ave Westminster Md 8 Dudek & Co R C
Winder Aircraft Corn of Florida	Main St Genoa Ill 10-11-13-17 Armstrong Cork Co	407 N Maple Dr Beverly Hills Calif 1
Lakeland El-	W Liberty St Lancaster Pa 18	DuKane Corp St Charles Ill 28
Yardney Electric Corp	Artisan Metal Works Co 11400 Madison Ave 4-5-7-8-11-14-15	DuMont Labs Inc Allen B 760 Bloomfield Ave Clifton NJ 1
40 Leonard St	Cleveland 2 Ohio 16-21-22-24-26-28	Duralith Corp
New York 13 NY 5-8-9-11-12-13-15	Auburn Mfg Co Stack St Middletown Conn 18-20	1025 Race St Philadelphia 7 Pa 27 Eastern Etching & Mfg Co
	Autel Electronics Co	Grape St Chicopee Mass 26
11—CABINETS, RACKS,	P O Box 225 Linden NJ 8-22-26 Avionics Ltd	Electron Enterprises 6917 W Stanley Ave Berwyn Ill 11
PANELS & ACCESSORIES	P O Box 200 Niagara-on-the-Lake Ontario Canada 3	Electro Sound Corp
	Baltic Metal Products	Electro-Voice Inc
Accessories, mounting 1	126 Sutton St Brooklyn 22 NY 7-8-14 Barker Sales Co	Cecil & Carrol Sts Buchanan Mich 7-10-15-17
Bias	996 Edgewater Ave Ridgefield NJ 7-10-17	Ellis & Sons George D 4028 N American St
Boards, plug-in	Barrett Div Allied Chemical & Dye Corp 40 Rector St New York 6 NY 25-27	Philadelphia 40 Pa 4-21-22
Boxes, storage	Beck's Inc	Elm Labs 10 Washington Ave
Cabinet covering	298 E 5 St St Paul 1 Minn 3 Berkshire Labs	Hastings-on-Hudson NY 4-10-22-26-27
Cabinets, audio radio equip 7	586 Bank Village Greenville NH 21 Bernard Franklin Co	Elzee Metal Products Co 775 39 St 2-4-5-6-7-8-11-12-13
Cabinets, metal	4155 E Hedley St	Brooklyn 32 NY 14-21-22-24-26-28
Cabinets, plastic	Philadelphia 37 Pa 2-5-8-16-28 Bestcraft Products Co	Emerson Plastics Corp Seabury Ave & Butler Pl Bronx 61 NY 27
Cases, portable	626 Broadway New York 12 NY 23-25	Emerson-Sack-Warner Corp
Cases, transformer	Bodnar Industries 238 Huguenot St New Rochelle NY 26	85 Washington St 1-2-4-5-8-15 Somerville 43 Mass 16-26-28-31
Cases, tube	Boonton Molding Co	Engineered Electronics Co
Chassis14	326 Myrtle Ave Boonton NJ 9 Bradley Associates	506 E 1 St Santa Ana Calif Epoxy Products Inc Div Joseph Waldman
Consoles	1650 N Damen Ave Chicago 47 Ill 4	& Sons 133 Coit St
Enclosures, speaker	British Industries Corp 80 Shore Rd Port Washington NY 1-29-30	Irvington NJ Equipto Div Aurora Equipment Co
reit	Brooks & Perkins Inc	Aurora Ill 2-8
riim Finishes	1950 W Fort St Detroit 16 Mich 4-5-8-15-16-21-22-26-28	Ercona Corp 551 5 Ave New York 17 NY 7-17
Mandles, leather 20	Browning Labs Inc	Etched Products Corp
Mousings, instrument 21	750 Main St Winchester Mass 10 Bucks County Enterprises	39-01 Queens Blvd Long Island City 4 NY 26
Housings, metal	Quakertown Pa 8-14-16 Cable Electric Products	Factory Service Co
Leatherette	234 Daboll St Providence 7 RI 12	4615 N 21 St Milwaukee 9 Wis 2-16
Panels, fibre	California Chassis Co 5445 E Century Blvd	Falstrom Co Falstrom Court
Panels, metal	Lynwood Calif 8-14-26-28	Passaic NJ 1-4-5-7-8-11-12-13-14-15-22-26-28
Panels, plastic 27	Cambridge Pattern Works 55 1 St Cambridge 41 Mass 10	Feay Co Neal 427 Olive St Santa Barbara Calif 26
Racks	Campro Products Inc	Feiner & Sons P
Slides, chassis	3131 Alliance Rd N E Canton 1 Ohio 1-8-9 Chassis Trak Inc	522 W 45 St New York 36 NY 5-8-11-14-26-28
Trays	525 S Webster Ave Indianapolis 19 Ind 29	Felters Co
	Z. Manapono to IIIU ZV	210 South St Boston 11 Mass 18
222		

Fibre Containers Co	Lane Electronics Mfg Corp	Permoflux Products Co 4101 San Fernando Rd Glendale Calif 17
4700 District Blvd Los Angeles 58 Calif 4	7254 Atoll Ave N Hollywood Calif 26 Langevin Mfg Corp	Petroff Corp Peter A
Fisher & Crone 109 N Camac St Philadelphia 7 Pa 14-27	47-37 Austell Pl Long Island City 1 NY 28	127 Water St New York 5 NY 8 Photocircuits Corp
Florman & Babb	Lansing Sound Inc James B	31 Sea Cliff Ave Glen Cove NY 3
68 W 45 St New York 36 NY Fluorocarbon Products Inc Div U S	3249 Casitas Ave Los Angeles 39 Calif 7 Leiman Bros	Plastofilm Inc 916 W Union Ave Wheaton Ill 4
Gasket Co 602 N 10 St	146 Christie St Newark 5 NJ 8	Plummer Co Walter A
Camden 1 NJ 9-27 Formica Metal Products Co	Lindsay Structure Inc 5009 Dempster St Skokie III 6-8-21-22	752 S San Pedro St Los Angeles 14 Calif 13
Corporation Way Medford 55 Mass 8-15	Logo Inc	Pomona Electronics Co
Franklin Fibre-Lamitex Corp Wilmington Del 25-27	12904 S Stony Island Ave Chicago 33 Ill 19	1126 W 5 Ave Pomona Calif Poray Inc
Furane Plastics Inc	Lorentzen lnc H K	3369 W Grand Ave Chicago 51 Ill 6-7-8-11
4516 Brazil St Los Angeles 32 Calif 27 Gary Wells Co	391 W Broadway New York 12 NY 7-8-11-12-13-14-21-26-31	Premier Metal Products Co 337 Manida St
361 Rockaway Ave	Lowell Mfg Co	New York 59 NY 7-8-14-26-28
Valley Stream NY 8-15-22-28 Gates Radio Co	3030 Laclede Station Rd St Louis 17 Mo 8-14-17-21-22-26-28	Printloid Corp 93 Mercer St New York 12 NY 27
123 Hampshire St Quincy III 7-8-15-26-28	Lyon Metal Products Inc	Protectoseal Co
General American Transportation Corp 135 S LaSalle St Chicago 90 Ill 9-27	11 Railroad Ave Aurora Ill 5 Lytle Eng'g & Mfg Co	1920 S Western Ave Chicago 8 Ill 8 Q-Line Mfg Corp
General Bronze Corp	1404 San Mateo Blvd S E	1562 61 St Brooklyn 19 NY 26
711 Stewart Ave Garden City NY 8-15 General Machine & Instrument Co	Albuquerque New Mex 26 Macarr Inc	Radio Corp of America Commercial Electronics Products
Clinton Rd & Rt 46 Caldwell NJ 21-22	2543 Boston Rd New York 67 NY 26	Camden 2 NJ 1-7-8-10-11-15-28
General Metal Products Co 1010 Centre St Easton Pa 4-8-11-14-26-28-31	Magic-Vue Television Corp 323 E 13 St New York 3 NY 7-10-14-15-17	Radio Frequency Labs Inc Boonton NJ 29-30
Glass & Bro Harry H	Magna Electronics Co	Radio-Matic of America Inc
10 Van Cortlandt Ave E New York 68 NY 26-27	9810 Anza Ave Inglewood 1 Calif 7-8-10 Malkin-Illion Co	760 Ramsey Ave Hillside NJ 10 Ransom Research
Golden Co	Malkin-Illion Co 400 Coit St 1-7-8-11-12-14-15-17 Irvington 11 NJ 21-22-24-26-28-31 Master Engraving Studios	323 W 7 St San Pedro Calif 3
1054 38 St Brooklyn 19 NY 8-14-22-24-26-28 Grant Pulley & Hardware Corp	Master Engraving Studios	REF Mfg Corp 393 Jericho Turnpike
31-85 Whitestone Pkwy Flushing 54 NY 29-30	135 Liberty St New York 6 NY 26	Mineola NY 4-8-9-11-15-22-26-27-28
Graphic Systems 55 W 42 St New York 36 NY 26	Mathis Co G E 6100 S Oak Park Ave Chicago 38 Ill 21-28	Reiner Electronics Go Centre & Glendale Sts
Graphik Circuits Div Cinch Mfg Corp	Measurement Eng'g Ltd	Easton Pa 4-8-11-14-21-22-26-28-31
200 S Turnbull Canyon Rd La Puente Calif 3 Gruen Mfg Co	232 John St 1-3-7-8-11-14 Arnprior Ont Canada 15-17-22-26-28	Remler 2101 Bryant St San Francisco Calif 27-29
2631 Brenner Dr Dallas 20 Texas 14	Metal Fabricators Corp 73 Pond St	Republic Steel Corp
Hall-Scott Inc Electronics Div 2950 N Ontario St Burbank Calif 8-11-15	Waltham 54 Mass 8-11-14-15-22-24-26-28	Republic Bldg Cleveland 1 Ohio 2-5-8 Richardson Co
Hamilton Electronics	Metal Specialty Products Corp 27-01 Brooklyn Queens Expressway W	27 Ave & Lake St Melrose Park HI 9-21-27
2726 Pratt Ave Chicago 45 Ill 8 Hamner Electronics Co	Woodside 77 NY 4-5-11-12-21-22-28	Riester & Thesmacher Co 1526 W 25 St
Princeton NJ 14-26 Harwood Electronics Co	Metaplast Corp Davisville Rd at Pa Turnpike	Cleveland 13 Ohio 8-11-21-22-28
466 W Superior St Chicago 10 Ill 4-5-8-14	Hatboro Pa 8-9-31	River Edge Sales Corp 80 Shore Rd Port Washington NY 7-19-17
Hawley Products Co	Micarta Fabricators Inc 5324 N Ravenswood Ave Chicago 40 Ill 27	R-J Audie Products
Heath Co	Midget Louver Co	80 Shore Rd Port Washington NY Rockbar Corp
305 Territorial Rd Benton Harbor Mich 17 Heldor Mfg Corp	6-8 Wall St Norwalk Conn 24 Midland Industrial Finishes Co	650 Halstead Ave Mamaroneck NY 17
238 Lewis St Paterson NJ 8-12-14-21-22-26	Waukegan Ill 19	Rogers Corp Rogers Conn 25
Hirschman-Pohle Co 120 Lent Ave Leroy NY 24	Mid-West Conveyer Co Metal Products Div 7 & Sunshine Rd 1-7-8-11-14-15-16	Rohn Mfg Co 116 Limestone Bellevue Peoria III
Hoffman Eng'g Corp	7 & Sunshine Rd 1-7-8-11-14-15-16 Kansas City 15 Kan 22-25-26-27-28-31	Rotating Components Inc
Anoka Minn 8-15-26 Hoover Electronics Co	Mil Case Corp 35-18 37 St 2-4-5-6-7-8-9-10-11-12-13-14-15-17	267 Green St Brooklyn 22 NY Scantlin Electronics Inc
3640 Woodland Ave Baltimore 7 Md 3	Long Island City NY 21-22-26-24-28-29-30	11624 W Pico Blvd
Hull Corp 1941 Woodland Rd Abington Pa 9	Miller Dial & Nameplate Co 4400 N Temple City Blvd	Los Angeles 64 Calif Scientific Wood Cabinet Co
iE Mfg	El Monte Calif 26-27	89 Holmes St Belleville 9 NJ
325 N Heyne Ave Chicago 12 Ill 7-8-14-21-22-28-29	Mobil Electronics Mfg Co 1111 State Rd 67 E	Scovill Mfg Co 99 Mill St Waterbury 20 Conn
I-L-S Instrument Corp	Anderson Ind 4-7-11-14-17-21-22-26	Seismograph Service Corp
4525 W 160 St Cleveland 11 Ohio 22 Industrial Engravers Inc	Molded Fiber Glass Co 4801 Benefit Ave Ashtabula Ohio 11-12-21-27	6200 E 41 St Tulsa 1 Okia Service Parts Systems
2212 McDonald Ave Brooklyn 23 NY 27	Molded Products Div Admiral Corp	13380 E 9 Mile Rd E Detroit Mich
Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds	Washington & Creamery Rd W Chicago Ill 1-9-11-27	Shepard Labs Inc 480 Morris Ave Summit NJ
Baltimore 28 Md 28	Molding Corp of America 58 Weybosset St Providence 3 RI 27	Sieler Design Products
Industrial Systems Co 32 Main St Matawan NJ 8-28	Muckle Mfg Co	10460 San Pablo Ave EI Cerrito Calif 7-10-1
Instrument Cases Inc	U S Hwy 14 Owatonna Minn 4-8-11 Mutual Electronics Industries Corp	Sightmaster Corp
510 W Garfield St Glendale 4 Calif 11 Insuline Corp of America	85 Beechwood Ave New Rochelle NY 27	85 Beechwood Ave New Rochelle NY 2' Silicone Insulation Inc
186 Granite St 1-4-5-6-7-8-11-13-14 Manchester NH 16-17-21-22-25-26-28	National Tel-Tronics Corp 52 St Casimir Ave Yonkers NY 3	Seabury Ave & Butler Pl Bronx 61 NY 21-2
Jansa Woodworking Corp	Neosil Products Div Rubber Associates	Skydyne Inc River Rd Port Jervis NY 1
350 Meserole St Brooklyn 6 NY 4-10 Jensen Mfg Co	745 5 Ave New York 22 NY 19 Neumade Products Corp	Snap-on Tools Corp
6601 S Laramie Ave Chicago 38 Ill 17	250 W 57 St New York 19 NY 8-28-30	Kenosha Wis Solartron Electronic Group Ltd
Jodee Plastics Co 213 Shepherd Ave Brooklyn 8 NY 4-5-9-11-27	Newcomb Audio Products Co 6824 Lexington Ave Los Angeles 38 Calif 28	Queens Rd Thames Ditton Surrey England 15-2:
Johns-Manville	New England Etching & Plating Co	Spaulding Fibre Co
22 E 40 St New York 16 NY 21-25 Kane Mfg Corp	Spring St Holyoke Mass 26 New England Laminates Co	310 Wheeler St Tonawanda NY 5-25-2
P O Box 641 Kane Pa 1-6-7-8-14-26-28	481 Canal St Stamford Conn 27	Sphere Co 25 Amitv St Little Falls NJ
Kees Mfg Co F D 700 Park St Beatrice Nebr 1-12-21-22	Northeastern Eng'g Inc 25 S Bedford St Manchester NH 8-28	Spinform Inc 65 Mechanic St
Keller Products Inc	Northern Metal Products Corp	Attleboro Mass 8-9-22-25-26-2
41 Union St Manchester NH 25-26-27 Kent Metal Mfg Co	9599 W Grand Ave Franklin Park Ill 5 Oberline Inc	Stackbin Corp 1079 Main St Pawtucket RI 2-
500 Johnson Ave Brooklyn 37 NY 8-22	P O Box 921 Beverly Hills Calif 7	Stamford Metal Specialty Co
Kent TV Inc 505 Driggs Ave Brooklyn 11 NY 10-15	O'Brien Electric Corp 6514 Santa Monica Blvd	427 W Broadway New York 12 NY 8-21-22-2
Keystone Electronics Corp	Hollywood 38 Calif 1-7-8-15-28	Standard Electric Time Co 89 Logan St Springfield 2 Mass 2
423 Broome St New York 13 NY 3 Kling Metal Spinning & Stamping Co	Olympic Plastics Co 3471 S LaCienega Blvd	Staver Co
245 Centre St New York 13 NY 12-21-22	Los Angeles 16 Calif 9-11-12 Panellit Inc	41-51 N Saxon Ave Bay Shore LI NY 2 Stephens Tru-sonic Inc
Koch & Sons H Box 127 Corte Madera Calif 11-21	7401 N Hamlin Ave Skokie Ill 8-15-26-27	8538 Warner Dr Culver City Calif 1
Kollman Case Corp	Par-Metal Products Corp 32-62 49 St	Stevens Walden Inc Shrewsbury St Worcester 4 Mass
Kost Products Co	Long Island City 3 NY 8-14-15-26-28	Stewart Warner Electronics Div
2335 N Cicero Ave Chicago 39 Ill 1 Kuss Industries Inc	P B R Mfg Co H & Luzerne Sts	1300 N Kostner Ave Chicago 51 Ill 1-6- Stone City Machine & Tool Co
Tacony & Lewis Sts	Philadelphia 24 Pa 8-11-16	1206 7 St Bedford Ind 4-11-12-21-22-2
Philadelphia 24 Pa 1-7-8-15-26 Laminated Sheet Products Corp	Penn Fibre & Specialty Co 2020 E Westmoreland St	Stromberg-Carlson Div General
449 Neponset St Norwood Mass 25-27	Philadelphia 34 Pa 25-27	Dynamics Corp 100 Carlson Rd Rochester 3 NY 7-2

Sun Dial Corp		
P O Box 326 Caldwell NJ 26-27	Capacitors, decade 5	Cornell-Dubilier Electric Corp 2-3-4-5-6-8-11 333 Hamilton Blvd 12-13-14-15-16-17-18-19
Sun Tube Corp 181 Long Ave Hillside N.I	Capacitors, electrolytic dry 6 Capacitors, electrolytic wet 7	S Plainfield NJ 20-21-22-23-24-26-27-28-29
Swedlow Plastics Co	Capacitors, feed-through 8	Corning Glass Works 30-31-32-33
6986 Bandini Blvd Los Angeles 22 Calif 9-11-26-27	Capacitors, gas-filled 9	Corning NY 10-11-12-14-17-26-33
Swenson & Co V H	Capacitors, glass 10	Corson Electric Mfg Corp 540 39 St
Synthane Corp	Capacitors, high temperature 11 Capacitors, high voltage 12	Union City NJ 11-12-18-21-22-24-31 Cosmic Condenser Co
Montgomery Ave Oaks Pa 27 Taffet Radio & TV Co	Capacitors, industrial 13	853 Whittier St Bronx NY 7-21
27-05 Brooklyn-Queens Expressway W Woodside 77 NY 8-12-14-17-22-26-28-29	Capacitors, MIL type 14	Dearborn Electronic Labs Inc 2-5-8-10-11-12 1421 N Wells St 13-14-15-17-18-19-20-21
Tarzian Inc Sarkes	Capacitors, metallized paper 15	Chicago 10 Ill 22-23-24-26-27-29-31-32 Deutschmann Corp Tobe 2-8-11-12-13-14-15-17
E Hillside Drive Bloomington Ind 1-28 Taylor Fibre Co	Capacitors, mica 16 Capacitors, miniature 17	Norwood Mass 18-19-20-21-22-23-24-26-27
Norristown Pa 25-27 Technical Service Corp	Capacitors, mylar dielectric 18	Dilectron Div Gudeman Co
1404 W Market St Louisville 3 Kv 16	Capacitors, neutralizing 19	2669 S Myrtle Ave
Technical Ply-Woods Sales 6756 Grandon Ave Chicago 49 Ill 25-26	Capacitors, oil	Dittmore-Freimuth Corp
Techniques Inc	Capacitors, paper 21 Capacitors, plastic dielectric 22	2517 E Norwich St Milwaukee 7 Wisc 1 Dolinko & Wilkens Inc
Telectro Industries Corp	Capacitors, plug-in 23	1907 Summit Ave Union City NJ 12-33-34
35-18 37 St Long Island City 1 NY 11-21-22	Capacitors, polystyrene in-	Dumont Airplane & Marine Instruments Inc 15 William St 2-6-13-14-17-18-20-21-
Teletone Co of America	sulated	New York 5 NY 22-23-24-26-27-31 Eastman Pacific Co
Teletronics Lab Inc	Capacitors, printed circuit 26	2320 E 8 St
54 Kinkel St Westbury NY 7-8-21 Temperature Eng'g Corp	Capacitors, silicone-filled 27	Eitel-McCullough Inc
U S Hwy 130 Riverton NJ 8-14-22-28-31	Capacitors, silvered mica 28	798 San Mateo Ave San Bruno Calif 34 Electra Mfg Co
Terris Div Consolidated Siphon Supply Co 22 Wooster St	Capacitors, standard 29 Capacitors, tantalum 30	4051 Broadway Kansas City Mo 3-13-14-32
New York 13 NY 4 Topatron Inc	Capacitors, teflon dielectric 31	Electrical Specialty Co 158 11 St 6-15-18-
942 E Ojai Ave Ojai Calif 15-28	Capacitors, temperature com-	San Francisco 3 Calif 20-21-22 Electrical Utilities Co
Topp Industries Inc 5255 W 102 St Los Angeles 45 Calif 21	pensated	2427 St Vincent's Ave 2-11-12-13-14-17-18-
Transformer Technicians Inc 2608 N Cicero Ave Chicago 39 Ill 12	Capacitors, transmitting 33 Capacitors, vacuum 34	La Salle Ill 20-21-22-24-27-31 Electro-Ceramics Inc
Triad Portable Case Corp		120 State St New Haven Conn 3-17-32 Electro-Measurements Inc
2541 Boston Rd Bronx 69 NY 11 Triad Transformer Corp	Advance Electronics Co	7524 S W Macadam Ave Portland 1 Ore 5
4055 Redwood Ave Venice Calif 12 U M & F Mfg Corp	8510 North End Ave Oak Park 38 Mich 1 Aerovox Corp 2-3-5-6-7-8-11-12-13-14	Electro Motive Mfg Co 3-8-11-14-16-17- Willimantic Conn 21-22-28
10929 Vanowen St N Hollywood Calif 14	740 Belleville Ave 15-18-19-20-21-22-23	Electronic Fabricators Inc Efcon Div
University Loudspeakers Inc 80 S Kensico Ave White Plains NY 17	New Bedford Mass 24-25-26-27-28-30-31-33 Airborne Accessories Corp	New York 12 NY 22-24-26-31
Uniwave Inc 2 Marine St Farmingdale NY 21-22	1414 Chestnut Ave Hillside 5 NJ 18-31 Ajax Condenser Co	Electron Products Inc 2-5-8-11-12-13-14-430 N Halstead St 15-17-18-20-21-22-23-24-
U S Radium Corp	932 W Wrightwood Ave 2-6-11-12-13-17	Pasadena 8 Calif 26-27-29-30-31
Morristown NJ 26-27 Utah Radio Products Corp	Chicago 14 III 18-20-21-22-23-26-32 Allen-Bradley Co	Endevco Corp 161 E California St
1124 E Franklin St Huntington Ind 10	136 W Greenfield Ave Milwaukee 4 Wis 3-8-11-12-14-17-25-26-32	Pasadena Calif Erie Resistor Corp
Utility Metal Products Co 117 Elliott St Beverly Mass 8-14-26-28	American Condenser Corp	644 W 12 St 3-4-8-10-11-12-13-14-16-
U S Plywood Corp 55 W 44 St New York 36 NY 6-23-25-26	4410 N Ravenswood Ave 2-6-11-13-14-18 Chicago 40 Ill 21-23-24-26-31	Erie 6 Pa 17-23-26-28-31-32 Fansteel Metallurgical Corp
Vari Equip Co P O Box 46 W Cornwall Conn 27	Amperex Electronic Corp 230 Duffy Ave Hicksville LI NY 12-34	2200 Sheridan Rd N Chicago Ill 30 Federal Telephone & Radio Co Div IT&T
Vector Electronic Co	AMP Inc	100 Kingsland Rd Clifton NJ 1-5 Film Capacitors Inc
3352 San Fernando Rd Los Angeles 65 Calif 3-7	Harrisburg Pa 12 AMP Inc Chemical Dielectrics Div	3400 Park Ave 5-11-12-13-14-17-18-
Victory Mfg Corp 1722 W Arcade Pl Chicago 12 Ill 9-11	155 Park St Elizabethtown Pa 12-22 Arrow Radio Co	New York 56 NY 20-22-24-31 Filtron Co
Vis-U-All Corp	1829 Davenport Rd	10023 W Jefferson Blvd 2-8-11-12-17-18 Culver City Calif 20-21-22-27
3325 W Bryn Mawr Ave Chicago 45 Ill 3-8-10	Astron Corp	Filtron Co
Vocalite Screen Corp 19 Debevoise Ave Roosevelt NY 23-27	255 Grant Ave 2-3-6-11-13-14-15-17-18 E Newark NJ 20-21-22-23-26-27-31-32	131-15 Fowler Ave 2-3-8-11-12-13-15-17- Flushing 55 NY 18-20-21-22-24-27-31
Walsco Electronics Mfg Co	Automation Components Inc	Fluorocarbon Products Inc Div US Gasket Co 602 N 10 St Camden 1 NJ 12-22-24-31-33
100 W Green St Rockford Ill 5-30 Walton Tool & Die Co	875 Hickory St Peckville Pa 3-8-12-29-32 Axel Electronics	Freed Transformer Co
2707 Empire Ave Burbank Calif 8-16-28 Warren Corp	134-20 Jamaica Ave Jamaica 18 NY 8-12-18-21-31	1718-36 Weirfield St Brooklyn 27 NY 5 Gary Wells Co 361 Rockaway Ave
2901 Brighton Rd Pittsburgh 12 Pa 8	Balco Research Labs	Valley Stream NY 6-7
Watson Mfg Co 3700 Taylor St 6-7-8-11-12-14-15	49 Edison Place Newark 2 NJ 11-14-22-31 Barker & Williamson Inc	General Electric Co Specialty Electronic Components Dept
Jamestown NY 17-22-27-28-29-30 Western Electro Acoustic Lab 17	Canal & Beaver Sts Bristol Pa 1-19-33 Bendix Aviation Corp	W Genesee St Auburn NY 3-17-26 General Electric Co Capacitor Dept
11789 San Vicente Blvd Los Angeles Calif Westinghouse Electric Corp P O	1104 Fisher Bldg Detroit 2 Mich 11 Berkshire Labs	John St 2-4-6-7-8-11-12-13-14-16-17-18- Hudson Falls NY 20-21-22-29-30-33
Box 868 Pittsburgh 30 Pa 21	586 Bank Village Greenville NH 23	General Electric Co Apparatus Sales Div
Westlab Electronics Inc 2475 Central Ave Yonkers NY 1	Roonton Electronics Corp 738 Speedwell Ave Morris Plains NJ 29	1 River Rd 1-4-5-7-8-12 Schenectady 5 NY 13-16-21-30
Willson Camera Co 1395 Lawrence Rd Havertown Pa 27	British Radio Electronics Ltd 1833 Jefferson Pl NW	General Electric Co Electronic Components Div 1 River Rd
Wilmington Fibre Specialty Co	Washington 6 DC 3-26-28-32	Schenertady 5 NY 34
New Castle Del 25 Winder Aircraft Corp of Florida 2-3-4-5-6-7	Cambridge Instrument Co Grand Central Terminal	General Radio Co 275 Massachusetts Ave
P O Box 2397 Drane Field 8-11-12-13-14-16 Lakeland Fla 17-21-22-24-25-26-29-30	New York 17 NY 5 Cambridge Thermionic Corp	Cambridge 39 Mass 1-5-16-22-29 Geotronic Labs Inc
Wright Equipment Co	445 Concord Ave	1314 Cedar Hill Ave
128 N Main St Milltown NJ 26 WYCO Metal Products	Cambridge 38 Mass 3 Cardwell Co Allen D	Dallas 8 Texas 8-24 Girard-Hopkins
6918 Beck Ave N Hollywood Calif 7-8-14-26-28	97 Whiting St Plainville Conn 1-2 Carnf Co	1000 40 Ave Oakland 1 Calif 2-13-14-20-21-33
Zenith Plastics Co 1600 W 135 St Gardena Calif 6-7-9-27	Box 554 2-8-11-13-14-15-17-18-20-21	Good-All Electric Mfg Co Good-All Bldg 2-3-8-11-12-13-14-17-18-
Zero Mfg Co	Brookhaven Miss 22-24-26-27-29-31-33 Centralab Div Globe Union Inc	Ogallala Nebr 20-21-22-24-26-31
1121 Chestnut Burbank Calif 8-11	900 E Keefe Ave Milwaukee 1 Wis 3-8-11-12-13-14-17-26-32	Gudeman Co 340 W Huron St
	Chicago Condenser Corp	Chicago 10 III 2-6-8-17-21-22
12—CAPACITORS, FIXED	3255 W Armitage Ave 1-2-8-11-12-13-14-15 Chicago 47 Ill 18-20-21-22-24-26-31	Gulton Industries Inc 212 Durham Ave
	Condenser Mfrs Inc 1018 Pearl St	Metuchen NJ 3-11-32 Hallett Mfg Co
Capacitors, air	Nashville Tenn 6-17-23-25-26	1601 W Florence
Capacitors, bathtub 2 Capacitors, ceramic 3	Condenser Products Div New Haven Clock & Watch Co 140 Hamilton 1-2-11-12-13	Hansen Electronics Co
Capacitors, composition 4	St New Haven 4 Conn 14-17-18-20-22-24-26 27-29-31-32-33	7117 Santa Monica Blvd Los Angeles 46 Calif 26
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V	P. 11 P. C	AND
Heath Co 305 Territorial Rd	Radio Frequency Co 44 Park St Medfield Mass 33	AMP Inc Harrisburg Pa 13
Benton Harbor Mich 5	Radio Industries Inc	Arrow Radio Co
Hi-Q Div Aerovox Corp	5225 N Ravenswood Ave	1829 Davenport Rd
Box 68 3-8-11-12-13-14-17-	Chicago 25 Ill 3-8-26-28-32	Toronto Ontario Canada 10-12
Myrtle Beach SC 23-26-32-33 Hopkins Eng'g Co	Radio Materials Corp 3325 N California Ave	Astron Corp E Newark NJ 10-12
12900 Foothill Blvd 2-5-8-11-14-15-17-18-20-	Chicago 18 Ill 8	Axel Electronics
San Fernando Calif 21-22-23-24-26-27-29-31	Research Instrument Co	134-20 Jamaica Ave Jamaica 18 NY 12
Illinois Condenser Co	PO Box 9168 Montavilla Station	Balco Research Labs
1616 N Throop St Chicago 22 Ill 6-14-17-18-21-26	Portland 16 Ore 5 Saftee Glass Co	49 Edison Place Newark 2 NJ 12 Barker & Williamson Inc
Industrial Condenser Corp	4717 Stenton Ave Philadelphia 44 Pa 10	Canal & Beaver Sts Bristol Pa 1-9-16
3243 N California Ave 2-5-6-11-12-13-14-17-	Sanders Associates 95	British Radio Electronics Ltd
Chicago 18 III 18-20-21-22-23-24-26-29-32-33	Canal St Nashua NH 18	1833 Jefferson Pl N W Washington 6 DC 1-7-13-14
Insulation & Wires Inc	San Fernando Electric Mfg Co	N W Washington 6 DC 1-7-13-14 Cambridge Thermionic Corp
1534 Swinney Ave Ft Wayne Ind 6 Intelex Systems Inc	1509 1 St 2-8-11-12-14-15-17-18-21-22- San Fernando Calif 23-24-26-27-29-31	445 Concord Ave Cambridge 38 Mass 2-7
22 Thames St	Sangamo Electric Co 2-6-7-8-11-12-13-14-16-17-	Cardwell Co Allen D
New York 6 NY 14-15-21-24-30	Springfield Ill 18-21-23-25-26-28-30-33	97 Whiting St Plainville Conn 1
International Electronic Industries	Skottie Electronics Inc Sub Astron Corp	Carnf Co Box 554 Brookhaven Miss 10-12
PO Box 1368 Nashville 3 Tenn 6-17-23-26 Jackson Electronics Inc	204 Bridge St Peckville Pa 3-8-12-32 Solar Mfg Corp	Box 554 Brookhaven Miss 10-12 Centralab Div Globe Union Inc
23 Woodcrest Rd West Chester Pa 26	4553 Seville	900 E Keefe Ave Milwaukee 1 Wis 2-7
Jeffers Electronics Div Speer Carbon Co	Los Angeles 58 Calif 3-8-12-14-26-32	Chicago Condenser Corp
Hoover Ave DuBois Pa 4	Southern Electronics Corp	3255 W Armitage Ave Chicago 47 Ill 10-12
Jennings Radio Mfg Corp 970 McLaughlin Ave	239 W Orange Grove Ave 2-5-11-12-18-22- Burbank Calif 23-24-26-31-32	Condenser Products Div New Haven Clock & Watch Co 140 Hamilton St
San Jose 8 Calif 8-12-19-34	Sprague Electric Co	New Haven 4 Conn 10-12-13-16
Jerrold Electronics Corp	Marshall St 2-3-6-7-8-11-12-13-14-15-	Cornell-Dubilier Electric Corp
23 & Chestnut Sts	North Adams Mass 16-17-18-20-21-22-23-24	333 Hamilton Blvd
Philadelphia 3 Pa 31	Sprague of Wisconsin Inc	S Plainfield NJ 10-12-13-15
Johnson Co E F Waseca Minn 1-33	6 & Beech Sts 3-8-12-14- Grafton Wisc 17-26-32	Corning Glass Works Corning NY 4-11-13
Kistler Instrument Corp	Stackpole Carbon Co	Corson Electric Mfg Corp
15 Webster St N Tonawanda NY 24	St Marys Pa 4	540 39 St Union City NJ 10
Landsverk Electrometer Co 550 W Garfield Ave 18-22-	Sullivan Ltd H W	Cossor (Canada) Ltd
550 W Garfield Ave 18-22- Glendale 4 Calif 24-31-34	80 Shore Rd Port Washington NY 5-16-29 Telegraph Condenser Co 2-3-4-6-7-8-11-12-13-	301 Windsor St Halifax Nova Scotia Canada 1-2
Lapp Insulator Co Radio Specialties Div	N Acton 14-16-17-19-20-21-22-23-24-25-26-28	Dearborn Electronic Labs Inc
24 Summer St LeRoy NY 9-12-13-33	London W 3 England 29-30-32-33	1421 N Wells St Chicago 10 III 10-12-15-16
Leeds & Northrup Co	Teleradio Eng'g Corp	Deutschmann Corp Tobe Norwood Mass 10-12-13
4970 Stenton Ave Philadelphia 44 Pa 5-16-28-29	Shannon & Barrett Sts Wilkes-Barre Pa 1-8-14-16-26-28-30	Norwood Mass 10-12-13 Dittmore-Freimuth Corp
London Electric Mfg Co Ltd	Televiso Corp	2517 E Norwich St Milwaukee 7 Wis 1
80 Shore Rd Port Washington NY 3-8-16-28	1415 Golf Rd Des Plaines III 8	Dumont Airplane & Marine Instruments
Luther Electronio Mfg Co	Texas Canacitor Co Div K-C-K Corp	Inc 15 William St New York 5 NY 10-12-13
5728 W Washington Blvd Los Angeles 16 Calif 12-20-21-31	922 S 75 St Houston 23 Texas 18-22 United Electronic Mfg Corp	New York 5 NY 10-12-13 Eastman Pacific Co
McDowell Electronics Inc	529 39 St Union City NJ 6-26	2320 E 8 St Los Angeles 21 Calif 2
105 Forrest St Metuchen NJ 13	United Electronics Co	Eitel-McCullough Inc
Macleod & Hanopol	42 Spring St Newark 4 NJ 34	798 San Mateo Ave San Bruno Calif 17
10 Roland St Charlestown 29 Mass 29	United Mineral & Chemical Corp	Electrical Specialty Co 158 11 St San Francisco 3 Calif 10-12
Maida Development Co	16 Hudson St New York 13 NY 8-25-28 US Electronics Devel Corp	Electrical Utilities Co
214 Academy St	1323 Air Way 1-2-5-8-11-15-18-20-	2427 St Vincent's Ave La Salle Ill 10
Hampton Va 3-8-12-14-26-32	Glendale 1 Calif 21-22-23-24-30-31	Electro Motive Mfg Co Willimantic Conn 6
Mallory & Co Inc PR 42 S Gray St	US Instrument Corp	Willimantic Conn Electronic Fabricators Inc
Indianapolis 6 Ind 6-7-14-21-26-30	PO Box 33E Charlottesville Va 21 Universal Condenser Co	Efcon Div
Mica Fabricating Co	3435 N Kimball Ave 2-11-12-17-18-20-21-22-	682 Broadway New York 12 NY 12
Rochelle Park NJ 16	Chicago 18 Ill 23-24-26-27-31-32	Electron Products Inc
Micamold Electronics Mfg Corp 2-6-8-11-12- Flushing Ave 13-14-15-16-17-18-20-21-22-23-	Vitramon Inc	430 N Halstead St Pasadena 8 Calif 10-12-13 Endevco Corp
Brooklyn 37 NY 24-27-28-29-30-31-32-83	Box 544 Bridgeport 1 Conn 25 We'wyn Int'l Inc	161 E California St Pasadena Calif 7
Mitronics Inc	3355 Edgecliff Terrace	Erie Resistor Corp
1290 Central Ave Hillside NJ 3-8-10-16-28	Cleveland 11 Ohio 3	644 W 12 St Erie 6 Pa 2-4-5-6-7-14
Mucon Corp 9 St Francis St Newark 5 NJ 3-17-19-26-32	Wesco Electrical & Mfg Co 27 Olive St Greenfield Mass 13	Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ 13
Muirhead & Co Ltd Beckenham	21 Office St Greenheid Mass	Filtron Co
Kent England 5-29		10023 W Jefferson Blvd
Muirhead Instruments Inc	13—CAPACITORS, VARIABLE	Culver City Calif 10-12 Filtron Co
677 5 Ave New York 22 NY 5-16-21-28-29 Muter Co		131-15 Fowler Ave Flushing 55 NY 10-12
1255 S Michigan Ave Chicago 5 Ill 3-8-12-26	Capacitors, air 1	Fluorocarbon Products Inc Div U S
National Capacitor Co 2-8-11-12-13-14-15-	Capacitors, ceramic trimmer 2	Gasket Co 602 N 10 St
18 Webster St 17-18-19-20-21-22-23-	Capacitors, gas filled 3	Camden 1 NJ 5-7-12-13-14-16
Brookline 46 Mass 24-26-27-31-32-33 New York Coil Co	Capacitors, glass trimmer 4	Gary Wells Co 361 Rockaway Ave Valley Stream NY 1
40 2 Ave Phoenixville Pa 18-21-24	Capacitors, high temperature 5	General Electric Co Capacitor Dept
Nichols Products Co	Capacitors, mica trimmer 6	John St Hudson Falls NY 10-12
325 W Main St Moorestown NJ 31	Capacitors, miniature 7	General Electric Co Apparatus Sales Div
Nucleonic Products Co 1601 Grande Vista Ave	Capacitors, modulated sweep . 8	1 River Rd Schenectady 5 NY 12 General Radio Co
Los Angeles 23 Calif 6	Capacitors, neutralizing 9	275 Massachusetts Ave
Ohmite Mfg Co	Capacitors, oil filled 10	Cambridge 39 Mass 1-13
3601 Howard St Skokie Ill 7-17-30 Onondaga Pottery Co	Capacitors, piston 11	Girard-Hopkins 1000 40 Ave Oakland 1 Calif 10
1858 W Fayette St	Capacitors, plastic 12	Good-All Electric Mfg Co
Syracuse 1 NY 3-11-12-14-32	Capacitors, precision 13	Good-All Bldg Ogallala Nebr 10
Painton & Co Ltd	Capacitors, printed circuit 14	Gudeman Co
c/o British Electronic Sales Co Box 132 Oakland Gardens 64 NY 31	Capacitors, receiver tuning 15	340 W Huron St Chicago 10 Ill 10 Gulton Industries Inc
Box 132 Oakland Gardens 64 NY 31 Planet Mfg Corp	Capacitors, transmitter tuning 16	212 Durham Ave Metuchen NJ
225 Belleville Ave Bloomfield NJ 6-23-26	Capacitors, vacuum 17	Hammarlund Mfg Co
Plastic Capacitors Inc		460 W 34 St New York 1 NY 1-5-7-9-15-16
2620 N Clybourn Ave 2-11-13-14-19-21- Chicago 14 Ill 22-24-27-31-32	Advance Electronics Co	New York 1 NY 1-5-7-9-15-16 Hi-Q Div Aerovox Corp
Potter Co 2-8-11-12-13-14-15-	8510 North End Ave	Box 68 Myrtle Beach SC 2
1950 Sheridan Rd 17-18-20-21-22-23-24-26-	Oak Park 37 Mich 1	Hopkins Eng'g Co
N Chicago Ill 27-29-31-32-33	Ajax Condenser Co	12900 Foothill Blvd San Fernando Calif 10-12-13
Precise Development Corp 2 Neil Ct Oceanside NY 5	932 W Wrightwood Ave Chicago 14 Ill 16-12 American Condenser Corp	San Fernando Calif 10-12-13 Industrial Condenser Corp
Precision Capacitors Inc	4410 N Ravenswood Ave	3243 N California Ave
150 W Cypress St 2-5-11-12-	Chicago 40 Ill 10	Chicago 18 Ill 10-12-13
Burbank Calif 18-22-23-24	Aerovox Corp	Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa 14
Pyramid Electric Co 1445 Hudson Blvd 2-6-7-8-11-12-13-14-	740 Belleville Ave New Bedford Mass 6-10-12-13	23 Woodcrest Rd West Chester Pa 14 Jennin's Radio Mfg Corp
N Bergen NJ 2-0-7-3-11-12-13-14- N 15-20-21-23-26	All Star Products Inc	970 McLaughlin Ave San Jose 8 Calif 9-17
Quality Components Inc	Squire Ave	JFD Mfg Ce
St Marys Pa 4	Defiance Ohio 1-2	6101-16 Ave Brooklyn 4 NY 2-4-11-14
Radiation Research Corp	AMP Inc Chemical Dielectrics Div	Johnson Ce E F
140 E 59 St New York 22 NY 22-24	155 Park St Elizabethtown Pa 10	Waseca Minn 1-9-16

Lapp Insulator Co Radio Specialties Div	Sockets, relay 16	Andrew Corp
24 Summer St LeRoy NY 3-16 Leeds & Northrup Co	Sockets, subminiature 17	363 E 75 St Chicago 19 III 7-8
4970 Stenton Ave Philadelphia 44 Pa 1 12	Sockets, transistor 18	Apparatus Development Co
20 Share Pd Part W Ltd	Sockets, tube	115 Main St Wethersfield 9 Conn 11-28 Ark Eng'g
McDowell Electronics Inc	Soldering lugs 20	431 W Tabor Rd Philadelphia 20 Pa 47
105 Forrest St Metuchen NJ 10 Maida Development Co	Solderiess lugs 21	Ark-Les Switch Corp 51 Water St Watertown 72 Mass 21-24
214 Academy St. Hampton Vo.	Spaghetti	Armel Electronics Inc
Micamold Electronics Mfg Corp	Tapes, pressure sensitive 23	840 5 Ave Brooklyn 32 NY 16-24 Arnold Eng'g Co
1087 Flushing Ave Brooklyn 37 NY 10 Millen Mfg Co James	Terminals & terminal strips 24	P O Box G Marengo III 38
150 Exchange St Malden 48 Mass 1-9-16	FUSES & FUSE HOLDERS	Art Wire & Stamping Co 227 High St Newark 2 NJ 13-20-21
Mitronics Inc 1290 Central Ave Hillside NJ 2-4	_	227 High St Newark 2 NJ 13-20-21 Associated Eng'g Corp
Muirhead & Co Ltd	Fuse clips	65 Kent St Brookline 46 Mass 4
Beckenham Kent England 1-13 Muter Co	Fuses, cartridge 27	Atlas E-E Corp 47 Prospect St Woburn Mass 13-20-25
1255 S Michigan Ave Chicago 5 Ill 2	Fuses, instrument 28	Auburn Mfg Co
Mulrhead Instruments Inc	Fuses, plug 29	Stack St Middletown Conn 40 Audio Accessories
National Capacitor Co	CHIELDING	Amityville NY 11-21
18 Webster St Brookline 46 Mass 10-12-16 National Company Inc	SHIELDING	Audio Development Co 2833 13 Ave S Minneapolis Minn 11
61 Sherman St Malden 48 Mass 1-6-9-15-16	Cathode ray shielding 30	Avery Adhesive Label Corp
Nilsen Mfg Co	Coil shielding	1616 S California Ave Monrovia Calif 23 B & C Insulation Products Inc
Nucleonic Products Co	Electrostatic shielding 32 Ferrite shielding 33	490 Lincoln Hwy Iselin NJ 22
1601 Grande Vista Ave	Glass r-f shielding 34	Bead Chain Mfg Co 110 Mountain Grove St
Los Angeles 23 Calif 12 Plastic Capacitors Inc	Heat shielding	Bridgeport 5 Conn 6-11-13
2620 N Clybourn Ave Chicago 14 Ill 10-12	Ignition shielding 36	Bel Fuse Inc 311 Mountain Rd Union City NJ 28
Potter Co 1950 Sheridan Rd N Chicago III 10-12-13	Lead shielding 37	Bernco Engineering Corp
Precision Capacitors Inc	Magnetic shielding 38	2320 S Tibbs Ave Indianapolis 41 Ind 8 Birnbach Radio Co
150 W Cypress St Burbank Calif 12 Pyramid Electric Co	Radiation shielding 39	145 Hudson St 6-11-13-19-20-21-22
1445 Hudson Blvd N Bergen NJ 10	Rubber shielding 40	New York 13 NY 24-25-26-36-46 Bliss Electronic Corp
Q-Line Mfg Corp 1562 61 St Brooklyn 19 NY 4	Screen shielding	Box 366 Sussex NJ 8
Radiation Research Corp	Sheet on screen shielding 42 Solid shielding 43	Bolton Labs Inc
140 E 59 St New York 22 NY 12-13 Radio Condenser Co	Transformer shielding 44	W Main St Bolton Mass 1 Borden Co Chemical Div Resinite Dept
Davis & Copewood Sts Camden 3 NJ 1-7-14	Tube shielding	P O Box 1589 Santa Barbara Calif 22
Romar Plastics Inc 1311 E Main St St Charles III 12	Wire shielding 46	Boston Woven Hose & Rubber Co PO Box 1071 Boston 3 Mass 23
1311 E Main St St Charles III 12 San Fernando Electric Mfg Co	Screen rooms 47	Brady Co W H
1509 E St San Fernando Calif 10 Sangamo Electric Co		727 W Glendale Ave Milwaukee 9 Wis 23 Brand & Co William
Springfield III 10-16	Accurate Electronics Corp	41 North St Willimantic Conn 8-22
Solar Mfg Corp 4553 Seville Ave Los Angeles 58 Calif 2	169 E Abbe Rd	Brand Dielectrics Inc 57 North St Willimantic Conn 23
Southern Electronics Corp	W Elyria Ohio 3-6-11-13-15-19-20-24-26 Ace Eng'g & Machine Co	Breeze Corps 700 Liberty Ave Union NJ 8-36
239 W Orange Grove Ave Burbank Calif 12-13	3644 N Lawrence St Philadelphia 40 Pa 38-41-42-47	Briggs Associates
Sprague Electric Co	Aerolite Electronics Corp	10 DeKalb St Norristown Pa 4 Brilhart Plastics Corp
Marshall St North Adams Mass 2-10-12-13 Sprague of Wisconsin Inc	507 26 St Union City NJ 2-3-4-6-8-11-12-24-25	Old Country Rd Mineola NY 11
6 & Beech Sts Grafton Wis 2 Stupakoff Div Carborundum Co	Aeronautical Electric Co	British Electronic Sales Box 132 Oakland Gardens 64 NY 19
Latrobe Pa 2	5656 Northwest Hwy Chicago 30 Ill 17-18 Aerovox Corp Pacific Coast Div	Buchanan Electrical Products Corp
Sullivan Ltd H W 80 Shore Rd Port Washington NY 1-13	2724 S Peck Rd Monrovia Calif 19	225 Route 22 Hillside NJ 12-13-21-24 Buffalo Electronics Corp
Tarzian Inc Sarkes	Aerovox Corp Crowley Div 1 Central Ave W Orange NJ 39	37 Franklin St Buffalo 2 NY 8
E Hillside Drive Bloomington Ind 1 Telectro Industries Corp	Aircom Inc	Burndy Corp Omaton Div Norwalk Conn 13-21-24-25-27
35-18 37 St Long Island City 1 NY 1-5-13	1209 E Grand St Elizabeth NJ 7 Aircraft & Electronic Specialties	Bussman Mfg Co University at Jefferson
Telegraph Condenser Co N Acton London W 3 England 2-10-12-13	22 S Green St Brownsburg Ind 8 Airflo Instrument Co	St Louis 7 Mo 27-28-29
Teleradio Eng'g Corp	53 Addison Rd Glastonbury Conn 11	Cable Electric Products 234 Daboll St
Shannon & Barrett Sts Wilkes-Barre Pa 1-2-6-9-14	Air Transport Mfg Co 1114 N Sycamore Ave 13-20-26-30-31	Providence 7 RI 1-2-3-8-27-28-29
Texas Capacitor Co Div K-C-K Corp	Los Angeles 38 Calif 32-38-44-45	Cable & Wire Products Co Chicago Rd Swanton Ohio 8
922 S 75 St Houston 23 Texas 12 United Mineral & Chemical Corp	Airtron Inc 1101 W Elizabeth Ave Linden NJ 7-36	Cambridge Thermionic Corp
16 Hudson St New York 13 NY 6-13	A-K Mfg Co	445 Concord Ave Cambridge 38 Mass 6-11-20-21-24
Universal Condenser Co 3435 N Kimball Ave Chicago 18 Ill 10-12-13	115 S Northwest Hwy Barrington III 8 Alden Products Co	Carter Parts Co
U S Electronics Devel Corp	123A N Main St	3401 W Madison St Skokie III C B C Electronics Co
Vacap Corp	Brockton Mass 4-5-8-11-19-24-25-26 Alford Mfg Co	2601 N Howard St Philadelphia 33 Pa 8
1905 Summit Ave Union City NJ 17 WacLine Inc	299 Atlantic Ave Boston 10 Mass 7	Century Lighting Inc 521 W 43 St New York 36 NY
35 S St Clair St Dayton 2 Ohio 8	Allegheny Ludlum Steel Corp Oliver Bldg Pittsburgh 22 Pa 38-44	Chase-Shawmut Co
Wheaton Co T C	Allen-Bradley Co	374 Merrimac St Newburyport Mass 27-28-29 Chase & Sons
Millville NJ Wisconsin Porcelain Co	136 W Greenfield Ave Milwaukee 4 Wis 24 Allied Allegri Co	26 Spruce St N Quincy Mass 23
121 Lincoln St Sun Prairie Wis 2	141 River Rd Nutley 10 NJ 8	Chester Morton Electronics Corp 10 St & Morton Ave Chester Pa 8-12
	Allied Resinous Products Inc Whitney Rd & Clark St	Chicago Gasket Co
14—CHASSIS ACCESSORIES	Conneaut Ohio 39-43	Chicago Industrial Instrument Co
17—CHASSIS ACCESSORIES	Alpha Metals Inc 56 Water St Jersey City 4 NJ 37-39-43	865 N Sangamon St Chicago 22 III 5
Adapters, crystal 1	Alpha Wire Corp	Cinch Mfg Corp 1026 S Homan Ave
Adapters, lamp socket 2	200 Varick St New York 14 NY 46 Ameray Corp	Chicago 24 III 5-11-16-17-18-19-20-21-24-26-45 Circon Component Co
Adapters, plug 3	Route 46 Kenvil NJ 37 Amerac Inc	Santa Barbara Municipal Airport
Adapters, test	116 Topsfield Rd Wenham Mass 1	Goleta Calif Coaxial Connector Co
Binding posts 6	American Lava Corp Subs Minn Mining & Mfg Cherokee Blvd & Mfgs Rd	37 N 2 Ave Mt Vernon NY 3-6-8-11
Coaxial cable fittings 7	Chattanooga 5 Tenn 19	Coil Winders Inc New York Ave Westbury LI NY 31-38
Harnesses 8	American Machine & Foundry Co Defense Products Group	Community Eng'g Corp
Implosion plates 9	1101 N Royal St Alexandria Va 8-39	Box 824 State College Pa 19
Jack covers	AMP Inc Harrisburg Pa 21	Connector Corp 6025 N Keystone Ave
Jacks	Amphenol Electronics Corp	Chicago 30 III 5-18-19-25-26 Conn Telephone & Electric Corp
Lugs 13	Anchor Products Co	70 Brittania St Meriden Conn 8-11
Safety terminals 14	2712 W Montrose Ave Chicago 18 III 8 Andrew California Corp	Consolidated Productions Inc Broward Int'l Airport
Sockets, coil	941 E Maryland Ave Claremont Calif 7	Ft Lauderdale Fla 8

Consolidated Wire & Associated Cos 1635 S Clinton St Chicago 16 Ill 46	Garde Mfg Co	Kelley & Co O G
1635 S Clinton St Chicago 16 Ill 46 Continental-Diamond Fibre Corp	588 Eddy St Providence 3 RI 24 Garlock Packing Co	98 Taylor St Boston 22 Mass 37-39-45 Kendall Co Polyken Sales Div
Newark Del 23	402 Main St Palmyra NY 22	309 W Jackson Blvd Chicago 20 Ill 23
Continental Electronics Ltd	Gee-Lar Mfg Co	Keystone Electronics Corp
302 Oakland St Brooklyn 22 NY 10 Controlled Atmosphere Enclosures Corp	418 S Wyman St Rockford III 11-25 General Cement Mfg Co Div Textron Inc	423 Broome St New York 13 NY 11-20-21-24 Kliegl Bros
230-11 141 Ave	400 S Wyman St	321 W 50 St New York 19 NY 21
Springfield Gardens 13 LI NY 39		Kling Metal Spinning & Stamping Co
Co-operative Industries Inc 100 Oakdale Rd Chester NJ 36	General Ceramics Corp	245 Centre St New York 13 NY 44-45-46
Cornish Wire Co	Keasbey NJ 33 General Components Inc	Kolton Electric Mfg Co 123 N J Railroad Ave
50 Church St New York 7 NY 8	225 E 144 St Bronx 51 NY 13-20-21-24-26	Newark 5 NJ 20-21-25-26
Croname Inc	General Electric Co Construction	Kost Products Co
3701 Ravenswood Ave Chicago 13 Ill 10 Crystalx-Westlake Corp	Materials Div 1285 Boston Ave Bridgeport 2 Conn 29	2335 N Cicero Ave Chicago 39 Ill 25 Krueger & Hudepohl 25
Lenni Rd Lenni Mills Pa 39	General Electric Co Apparatus Sales Div	1041 Evans St Cincinnati 4 Ohio 13-21
Dale Boisen Co	1 River Rd Schenectady 5 NY 27	Kulka Electric Mfg Co
2928 Nebraska Ave Santa Monica Calif 8	General Radio Co	633 S Fulton Ave Mt Vernon NY 2-3-12-13-20-24-25
Dante Electric Mfg Co Bantam Conn 24-25	275 Massachusetts Ave Cambridge 39 Mass 6-7-11	Mt Vernon NY 2-3-12-13-20-24-25 Kupfrian Mfg Corp
Dearborn Giass Co	General RF Fittings Inc	395 State St Binghamton NY
6600 S Harlem Ave Bedford Park Argo Ill 9	702 Beacon St Boston 15 Mass 1-3-6-7-8-11	Labelon Tape Co
Decatur Electronic Industries Corp 203 Orinoco Dr Brightwaters LI NY 8-10	Globe Electrical Mfg Co 1729 W 134 St Gardena Calif 24	450 Atlantic Ave Rochester 9 NY 2:
Decimeter Products Co	Goat Co Fred	Lab-Tronics Inc 3656 N Lincoln Ave
730 Hooker St Denver 4 Colo 23	314 Dean St Brooklyn 17 NY 39-45	Chicago 13 Ill 3-4-11-12
Defiance Eng'g & Microwave Corp Beverly Airport Beverly Mass	Goe Eng'g Co 219 S Mednik Ave Los Angeles 22 Calif 13-20	La Moree C D 2433 Birkdale St Los Angeles 31 Calif 22
Dielectric Materials Co	Goodrich Industrial Products Co B F	2433 Birkdale St Los Angeles 31 Calif 22 Lear Inc
5315 N Ravenswood Ave Chicago 40 III 46	500 S Main St Akron 18 Ohio 23	3171 S Bundy Drive Santa Monica Calif 47
Dielectric Products Eng'g Co Raymond Me 1-7	Graphik Circuits Div Cinch Mfg Corp	Lerco Electronics Inc 501 S Varney St Burbank Calif 2
Raymond Me 1-7 Dit-Mco Inc Electronics Div	200 S Turnbull Capyon Rd La Puento Calif 24	501 S Varney St Burbank Calif 2 Lieco Inc
911 Broadway Kansas City Mo		3610 Oceanside Rd Oceanside LI NY
Dittmore-Freimuth Corp	561 Hillgrove Ave LaGrange Ill 6-11-17	Lindgren & Associates Erik A
2517 E Norwich St Milwaukee 7 Wis 11 D & M Products	Great Western Div Interference Corp	4515 N Ravenswood Ave Chicago 40 Ill 38-39-41-42-43-4
13144 W McNichols Rd Detroit 35 Mich 26	Warren Pa 25-27-29 Guild Electronics Inc	Lindsay Structure Inc
Dossert Mfg Corp	388 Broadway New York 13 NY 5-19-47	5009 Dempster St. Skokie III 43
249 Huron St Brooklyn 62 NY 13-21 Douglas Roesch Cable Div Hall-Scott		Littelfuse Inc 1865 Miner St. Des Plaines Ill 26-27-28
Inc 2950 N Ontario St	36-14 11 St Long Island City 6 NY 11 Hallett Mfg Co	1865 Miner St Des Plaines Ill 26-27-28 Lifton Industries Components Div
Burbank Calif	1601 W Florence	5873 Rodeo Rd Los Angeles 16 Calif 2
Drake Mfg Co	Inglewood Calif 7-8-31-32-33-36-37-38-46	Lorentzen Inc H K
1713 W Hubbard St Chicago 22 Ill Du Mont Labs Inc Allen B	Halisell Co Will	391 W Broadway New York 12 NY 2
760 Bloomfield Ave Clifton NJ 4-5-17-19-30		McMillan Industrial Corp Brownville Ave Ipswich Mass 39-4
Dwyer Eng'g Co	128 Bartholomew Ave Hartford 1 Conn 16-17	Magnetic Metals Co
Pine St Ext Nashua NH Eagle Electric Mfg Co	Titll Wood Electronics Co	Hayes Ave & 21 St Camden 1 NJ 38-44-4
23-10 Bridge Plaza S	466 W Superior St Chicago 10 III 6 Haveg Industries Inc	Malco Tool & Mfg Co 4025 W Lake St Chicago 24 111 13-20-2:
Long Island City 1 NY 2-3-27-29	900 Greenbank Rd Wilmington 8 Del 22-46	Mallory & Co Inc P R
Eberline Instrument Div Reynolds Electrical 805 Early St	Hayward Scientific Glass Corp	42 S Gray St Indianapolis 6 Ind 1:
Santa Fe N Mex 39	217 N Magnolia Ave Whittier 1 Calif 34-37-39	Mandex Mfg Co 2608 W 16 St
Eitel-McCullough Inc	Hi Grade Alloy Corp	Chicago 8 Ill 13-19-20-2
798 San Mateo Ave San Bruno Calif 19-42		Mayfair Molded Products Corp
Elco Corp M St below Erie Ave	Hoffman Electronics Corp 3761 S Hill St Los Angeles 7 Calif 19	3700 N Rose St Franklin Park Ill 15-17-1 Mercury Eng'g Corp
Philadelphia 24 Pa 6-16-17-18-19-45	Holyoke Wire & Cable Corp	339 E Cottage Pl York Pa
Elco Mfg Co 137 Herrick Rd New Hyde Park LI NY	720 Main St Holyoke Mass 8	Metal Textile Corp 647 E First Ave Roselle NJ 32-36-4
Electrical Specialty Co	Hoover Electronics Co 3640 Woodland Ave Baltimore 7 Md 8	Methode Mfg Corp
158 11 St San Francisco 3 Calif 13-20-21-23	Houlihan Co T J	7447 W Wilson Ave
Electric Terminals Corp 2019 Center St Cleveland 13 Ohio 13-21	2508 W Lawrence Ave Chicago 25 Ill 8	Chicago 31 Ill 3-5-13-16-17-18-19-20-31-37-4
Electronic Brazing Co	Hubbell Inc Harvey State Rd & Bostwick Ave	Micarta Fabricators Inc 5324 N Ravenswood Ave
140 Glenridge Ave Montclair NJ	Bridgeport 2 Conn 11-24	Chicago 40 Ill 6-17-18-19-2
Electro-Physics Co 287 Broadway New York 7 NY	Huse Liberty Mica Co	Micro-Circuits Co
287 Broadway New York 7 NY Electro-Technical Products Div Sun	Peanody Industrial Center Leabody 12435 25	New Bullato Inter-
Chemical Corp 113 E Centre St	iE Mfg 325 N Hoyne Ave	Mil Case Corp 35-18 37 St Long Island City NY 2
Nutley 10 NJ 23	Chicago 12 Ill 13-14-20-21-24-45	Millen Mfg Co James
Elm Labs 10 Washington Ave	Industrial Acoustics Co	150 Exchange St Maldon 48 Mass 11-14-19-24-30-3
Hastings-on-Hudson NY	341 Jackson Ave New York 54 NY 32-38-47 Industrial Hardware Mfg Co	Malden 48 Mass 11-14-19-24-30-30 Minnesota Mining & Mfg Co
Emerson Plastics Corp	109 Prince St New York 12 NY 17-18-19-24	900 Fauquier Ave St Paul 6 Minn 2
Seabury Ave & Butler Pl Bronx 61 NY 24 Emerson-Sack-Warner Corp	Industrial Research Labs Div Actolica	Minor Rubber Co
85 Washington St Somerville 43 Mass 10	Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md	Ackerman St Bloomfield NJ 10-4 Modelectric Products Corp
Empire Electronics Co	Industrial Wiring & Cable Co	Asbury Park NJ
166 River St Paterson 1 NJ	' 103 Foundry St Wakefield Mass 8	Model Eng'g & Mfg Inc
Enflo Corp Rte 38 at Airport Circle	Insulation & Wires Inc 1534 Swinney Ave Ft Wayne Ind 22	50 Frederick St Huntington Ind Molded Fiber Glass Co
Pennsauken 11 NJ 1-19-22-23-24-26-35	Isotopes Specialties Co	4801 Benefit Ave Ashtabula Ohio 3
Engineered Electronics Co	703 S Main St Burbank Calif 37-39	Molded Insulation Co
506 E 1 St Santa Ana Calif Entron Inc	insulation Mirs Corp	335 E Price St Philadelphia 44 Pa Molded Products Div Admiral Corp
4902 Lawrence St Bladensburg Md 4-		Washington & Creamery Rd W Chicago III
Exacto Industries Inc	186 Granite St	Molding Corp of America
8730 Santa Monica Blvd Los Angeles 46 Calif	Manchester NH 1-6-11-13-19-20-21-25-26	58 Weybosset St Providence 3 RI 2
Excellex Electronics Inc	Janco Corp 3111 Winona Ave Burbank Calif 12	Morse Co Frank W 1300 Soldiers Field Rd Boston 35 Mass
475 Chestnut St Cedarhurst LI NY 2	Jan Hardware Mfg Co	Mosley Electronics Inc
Factory Enterprises Inc 3431 Butler St Pittsburgh 1 Pa 4	75 N 11 St Brooklyn 11 NY 10-30-38-44-45	8622 St Charles Rock Rd St Louis 14 Mo
Factory Service Co	JFD Mfg Co 6101-16 Ave Brooklyn 4 NY 3	Muter Co 1255 S Michigan Ave Chicago 5 Ill 3
4615 N 21 St Milwaukee 9 Wis 1	Johns-Manville Dutch Brand Div	Mutual Electronic Industries Corp
Federal Mfg & Eng'g Corp 1055 Stewart Ave Garden City NY	7800 Woodlawn Ave Chicago 19 III 23	85 Beechwood Ave New Rochelle NY 27-2
Federal Screw Products Inc	Johns-Manville	Mycalex Corp of America 125 Clifton Blvd Clifton NJ
3917 N Kedzie Ave	22 E 40 St New York 16 NY 23 Johnson Co E F	National Aircraft Corp Electronics Div
Chicago 18 III 6-13-20-21-2	Waseca Minn 6-11-19	3411 Tulare Ave Burbank Calif 1
Fish-Schurman Corp 70 Portman Rd New Rochelle NY 39	Johnson & Hoffman Mfg Corp	National Company Inc 61 Sherman St Malden 48 Mass 1
Florman & Babb	31 E 2 St Mineola NY 13	National-Standard Co
	Jones Div Howard B Cinch Mfg Co 1026 S Homan Ave Chicago 24 Ill 11	Niles Mich
Fluorocarbon Products Inc Div U S Gasket Co 602 N 10 St	Jones Electronics Hiram	National Tel-Tronics Corp 52 St Casimir Ave
Camden 1 NJ 3-6-7-8-11-17-18-19-22-24-4	2313 W Olive St Burbank Calif 11-13-20-24	Yonkers NY 11-15-20-24-2
Frankel Connector Co 27 Vestry St New York 13 NY 2	Kane Mfg Corp P O Box 641 Kane Pa 47	Natvar Corp 211 Randolph Ave Woodbridge NJ 2
TI ACOUR DO TICM TOLK TO TAIL	- O DOA OIL MARKETA 41	TI Mandolbu Wie Moodoridge 110

Nems-Clarke Inc	Smith Inc Herman H W
919 Jesup-Blair Dr Silver Spring Md 11 Neosil Products Div Rubber Associates	2326 Nostrand Ave Brooklyn 10 NY 6-11-13-20-21-24-25 W
Newark Wire Cloth C-	Sparta Mfg Co
351 Verons Ave Newpolt 4 NV	Dover Ohio 35-46 W Spring Packing Corp
	332 S Michigan Ave Chicago 4 Ill 23 W
177 E Hawthorne Ave Valley Stream NY 25 New England Electrical Works	Standard Electric Time Co 89 Logan St Springfield 2 Mass 6-11 W
365 Main St Lisbon NH Nichols Products Co 46	Star-A Electric Mfg Co
32b W Main St Moorento NY	269 Meserole St Brooklyn 6 NY 2-27-29 W Staver Co
	41-51 N Saxon Ave Bay Shore LI NY 45 W
3 W 18 St New York 11 NY 8	Steward Mfg Co D M Chattanooga Tenn 33-38-39
553 S Market St Galion Ohio 6-8-11-24 NRD Instrument Co	Stewart Warner Electronics Div
0425 Etzel Ave St Touis 14 36	1300 N Kostner Ave Chicago 51 Ill 1-28 Stone City Machine & Tool Co W
A UCICONIC COPE OF A mania-	Stone City Machine & Tool Co 1206 7 St Bedford Ind 13-20-24-25 Strat-O-Seal Mfg Co
196 Degraw St Brooklyn 31 NY 39 Olympic Plastics Co	Strat-O-Seal Mfg Co 3039 W Fullerton Ave Chicago 47 Ill 24
34/1 S LuCianage Di-1	Stromberg-Carlson Div General
Los Angeles 16 Calif Pacific Electicord Co	Dynamics Corp 100 Carlson Rd Rochester 3 NY 11
3217 Exposition PI Los Annual do man	Rochester 3 NY 11 Superex Electronics Corp Y
Sales Co Boy 122	4 Radford Pl Yonkers NY 4-8
Oakland Gardens 64 NY Paul & Beekman 6	Superior Electric Co Y 83 Laurel St Bristol Conn 6
1801 Courtland St. Della La La	Swedlow Plastics Co 6986 Bandini Blvd
Perfection Mica Co Magnetic Shield Div 20 N Wacker Dr	Los Angeles 22 Calif 35-39
Chicago 6 III 30-31-32-38-44-45	Swift Metallizing & Laminating Corp 10 Love Lane Hartford 1 Conn 32-34-39-41-42
Permacel Tape Corp	Switcheraft Inc
U S Hwy 1 New Brunswick NJ Permonite Mfg Co	1328 N Halsted St Chicago 22 Ill 3-4-10-11 Sylvania Electric Products Inc
444 Lake Shore Dr Chicago 11 Ill	1740 Broadway
Pfaudler Co	New York 19 NY 4-17-18-19-26-45 Taffet Radio & TV Co
1000 West Ave Rochester 3 NY 34 Phalo Plastics Corp	27-05 Brooklyn Queens Expressway W
20 POSter St Womenton 0 36	Woodside 77 NY 8-39 Taylor Fibre Co
I III AUCIDII I Ingiliated Wine A	Norristown Pa 26
200 N 3 St Philadelphia 43 Pa Photographic Analysis Inc	Technicraft Co
13273 Ventura Blvd N Hollywood Calif	1156 Commonwealth Ave Boston 34 Mass 6 Techron Corp
Pix Mig Co	81 Washington St Boston 8 Mass 17
75 Hudson St Newark 3 NJ 13-20-21 Plastic Mold & Eng'g Co	Telectro Industries Corp 35-18 37 St
19 Ciliford St Providence Dr	Long Island City 1 NY 11-31-37-39-42-43 Telephonics Corp
Flummer Co Walter A	Park Ave Huntington LI NY 11
752 S San Pedro St Los Angeles 14 Calif 8 Polymer Corp	Teleradio Eng'g Corp
2120 Fairmont Ave Reading Pa 22-38 Pomona Electronics Co	Shannon & Barrett Sts Wilkes-Barre Pa 11 Teletronic Labs Inc
1126 W 5 Ava Dames G va	1835 W Rosecrans Ave Gardena Calif 8 Telex
A TECISION MELAN PRODUCTS Co	1633 Eustis St St Paul I Minn 11
41 Elm St Stoneham Mass Precision Tube Co	Thale Eng'g Corp 2104 E Villa St Pasadena Calif 8-31-36-43
Church Rd & Wissahickon Ave North Wales Pa	Thermal Refractories Corp
Printed Cellonhane Tana Ca	4501 Dell Ave N Bergen NJ 33 Thor Ceramics Inc
521 N La Brea St Los Angeles 36 Calif 23 Pye Telecommunications Ltd	225 Belleville Ave Bloomfield NJ 22
Newmarket Rd Cambridge England	Topatron Inc 942 E Ojai Ave Ojai Calif 32-38-41-42-43
5121 W Grove St Shaking 11	Topp Industries Inc
	5255 W 102 St Los Angeles 45 Calif 8 Trico Fuse Mfg Co
7800 W Addison St Chicago 34 Ill 19 Raytheon Mfg Co	2948 N 5 St Milwaukee 12 Wis 27
100 River St Waltham 54 Man	Tri-Dex Electronics P O Box 1207 Lindsay Calif 24
100 River St Waltham It a	Trimm Inc
Remier Co	400 W Lake St Libertyville III 11 Tri-Point Plastics Inc
2101 Bryant St San Francisco Calif 19 Resistoflex Corp	175-I U Willets Rd Albertson LI NY 24
Woodland Rd Roseland N.I	Tru-Connector Corp 416 Union St Lynn Mass 7
Wallingford Conn	Ucinite Co Div United-Carr Fastener Corp
Richards Electrocraft Inc	459 Watertown St Newtonville 60 Mass 11 United-Carr Fastener Corp
3739 N Kedzie Ave Chicago 18 III 3-11 Rodale Mfg Co	Cambridge 42 Mass 11
6 & Minor Sts Emmaus Pa 2-3 Rogers Corp	United Mineral & Chemical Corp 16 Hudson St New York 13 NY 23
Rogers Conn 35-40	U S Instrument Corp
Rosenau Harris & Co	P O Box 33E Charlottesville Va 11-28 U S Plywood Corp
Ontario & I Sts Philadelphia 34 Pa Royal Electric Corp	55 N 44 St New York 36 NY 39
95 Grand Ave Pawtucket RI 27-29	U S Rubher Co 1230 6 Ave New York 20 NY 40-42
Safetee Glass Co 4717 Stenton Ave Philadelphia 44 Pa 9	Vaco Products Co
Saratoga Plastics Inc	317 E Ontario St Chicago 11 III 21 Varflex Corp
N Walpole NH	511 W Court St Rome NY 22 A
Scientific Glass Apparatus Co 100 Lakewood Terrace Bloomfield NJ 23	Vector Electronic Co 3352 San Fernando Rd
Sealectro Corp	Los Angeles 65 Calif 4-5-19-24 A
610 Fayette Ave Mamaroneck NY 11 Seamless Rubber Co	Vidaire Electronics Mfg Corp 576 W Merrick Rd Lynbrook NY 4-5
253 Hallock Ave New Haven 3 Conn 23	Vitroseal Corp
Sensory Inc Pleasantville Rd New Vernon NJ 8	709 E 106 St Indianapolis 20 Ind 24
Shakeproof Div Illinois Tool Works	10 Dehavoire Ave Prosevelt NV 28
St Charles Rd Elgin Ill 20 Shielding Inc	Volk Radiochemical Co
8 Reserve St Riverside NJ 38-41-43-47	5412 N Clark St Chicago 40 III 37-39 A Wade Electric Products Co
Sightmaster Corp	Box 271 Sturgis Mich 13-24 A
85 Beechwood Ave New Rochelle NY 27-28 Sinclair Mfg Co	Waldem Electronics Inc 4625 W 53 St Chicago 32 Ill 6-10-13-19-20-21
P O Box 243 Chartley Mass 13-20-21	Walsco Electronics Mfg Co
Skysweeper Inc P O Box 92 McHenry III 8	100 W Green St Rockford III 4-5-11-13-20-21-25

Walworth Co	
60 E 42 St New York 17 NY	7
Wenzel Projector Co	
2505 S State St Chicago 16 Ill	21
Westbury Electronics Inc	
300 Shames Dr Westbury NY	8
Western Int'l Co	
45 Vesey St New York 7 NY	1-3-11
Westline Products Div Western Lithog	graph Co
600 E 2 St Los Angeles 54 Calif	15-23
Wheaton Co T C	
Millville NJ	24
Whitaker Cable Corp	
1301 Burlington St	
N Kansas City 16 Mo	13-20-21
Whitso Inc	
9330 Byron St Schiller Park Ill	11
Wilmar Mfg Co	
1110 Truman Rd Kansas City Mo	4
Winchester Electronics Inc	
Willard Rd Norwalk Conn	19
Winder Aircraft Corp of Florida	
PO Box 2397 Drane Field	2-3-4-10-
Lakeland Fla	11-12-43
Yale & Towne Powdered Metal Prods	
9335 W Belmont Ave Franklin Parl	c Ill 38
York Co Otto H	42
6 Central Ave W Orange NJ	44
Zierick Mfg Corp	
Beechwood & Rockdale Ave New Rochelle NY	20-25
New Rochene MI	20-20

## 15—CHEMICALS, COATINGS & RELATED PRODUCTS

Adhesives	1
Binders, liquid	2
Cement	3
Ceramics, high temperature	4
Chamicals dobumidifing	5
Chemicals, dehumidifing Chemicals, electroplating	6
Chemicals, electroplating	7
Chemicals, etching	8
Chemicals, fluorescent	_
Chemicals, phosphorescent	9
Chemicals, photosensitive	10
Chemicals, radioactive	11
Chemicals, wire stripper	12
Cleaners, contact	13
Coatings, printed circuit	14
Coatings, protective	15
Coil dope	16
Compounds, cleaning	17
Compounds, waterproofing	18
Enamels	19
Finishes, wrinkle	20
Flux, brazing & soldering	21
Fungicides	22
	23
Greases, vacuum	24
Ink, marking	
Lacquer	25
Lubricants	26
Materials, fluorescent	27
Paint, conducive	28
Paint, metallic	29
Paint, resistive	30
Phosphors, b&w TV tube	31
Phosphors, color TV tube	32
Pitch	33
Plastic, electrically conductive .	34
Resins, encapsulating	35
Rubber, conductive	36
Selenium	37
Silicones	38
Silvernaste	39
Silverpaste	40
Varnish	41
War	
Wax	42
cheson Colloids Co 1635 Washington Ave	
Port Huron Mich	14-26
Port Huron Mich cme Wire Co 1255 Dixwell Ave	14-50
1255 Dixwell Ave	
New Hayen 14 Conn 15-19	-95-41

Alpha Metals Inc	Centralab Div Globe Union Inc	Fish-Schurman Corp
56 Water St	900 E Keefe Ave Milwaukee 1 Wisc 4	70 Portman Rd New Rochelle NY
Jersey City 4 NJ 21 Alpha Molykote Corp	Central Coil Co 1720 N Luett St	Floquil Products Inc Cobleskill NY 15-24-29-80
65 Harvard Ave Stamford Conn 26	Indianapolis 22 Ind 1-3-15-16-18-35	Fluorocarbon Products Inc Div US Gasket Co
Aluminum Co of America	Chemical Commerce	602 N 10 St Camden 1 NJ 34
Alcoa Bldg Pittsburgh 19 Pa 5 Ambroid Co	166 Clifford St Newark 5 NJ 6-10 Chemical Process Co	Franklin Fibre-Lamitex Corp Wilmington Dela 84
Box 30 Weymouth 88 Mass 1-3-25	1901 Spring St Redwood City Calif 35	Frenchtown Porcelain Co
Amercoat Corp	Chemical Products Corp	Muirhead Ave Trenton 9 NJ
4809 Firestone Blvd South Gate Calif 15	King Philip Rd E Providence 14 RI 1-14-15-30-40	Furane Plastics Inc
South Gate Calif 15 American Lava Corp	Chicago Gasket Co	4516 Brazil St Los Angeles 32 Calif 1-14-15-18-34-35
Subs Minn Mining & Mfg	1271 W North Ave Chicago 22 Ill 1	Garlock Packing Co
Cherokee Blvd & Mfrs Rd	Ciba Co Plastics Div	402 Main St Palmyra NY 38
Chattanooga 5 Tenn 4 American Metal Co	Kimberton Pa 85 City Chemical Corp	Gates & Co
61 Broadway New York 6 NY 37	132 W 22 St 5-6-7-8-17-	Geo W Hempstead Tpke & Lucille Ave Franklin Square LI NY 7-8
American Platinum Works	New York 11 NY 22-27-37-40	General American Transportation Corp
231 NJRR Ave Newark 5 NJ 21 American Products Mfg Co	Clowes Ceramic Corp	135 S LaSalle St
8127 Oleander St	3711 Calhoun Ave Chattanooga 7 Tenn 4 Cobehn Inc	Chicago 90 Ill 14-15
New Orleans 18 La 1-3-8-9-15-18-25	18-24 Passaic Ave Caldwell NJ 18-40	General Cement Mfg Co Div Textron Inc 400 S Wyman St 1-12-13-14-15-19-
American Silver Co	Colonial Alloys Co	Rockford Ill 25-26-40-41
3607 Prince St Flushing 54 NY 21 American Solder & Flux Co	Ridge Ave & Crawford St Philadelphia 29 Pa 13	General Ceramics Corp
19 & Willard Sts Philadelphia 40 Pa 21	Philadelphia 29 Pa 13 Communication Products Co	Keasbey NJ
Anchor Metal Co	Marlboro NJ 25	General Chemical Div Allied Chemical & Dye Corp
966 Meeker Ave Brooklyn 22 NY 21 Anderson Associates H V	Conn Hard Rubber Co	40 Rector St 5-6-7-8-9-11-
233 Broad St Summit NJ 21-28-39	PO Box 1911 New Haven 9 Conn 3-34-36 Constad Labs	New York 6 NY 12-31-32-37
Anton Electronics Labs	85-02 162 St Jamaica NY 1-17	General Electric Co Lamp Wire & Phosphors Dept
1226 Flushing Ave Brooklyn 6 NY 11 Apex Coated Fabrics Co	Continental-Diamond Fibre Corp	1331 Chardon Rd
12 E 22 St New York 10 NY 15	Newark Del 38	Cleveland 17 Ohio 31-32
Arco Co	Cox & Co 115 E 23 St New York 10 NY 1	General Electric Co
7301 Bessemer Ave Cleveland 27 Ohio 15-19-25-41	Crown Industrial Products Co	Silicone Products Dept Waterford NY 1-15-18-26-38
Cleveland 27 Ohio 15-19-25-41 Aries Labs Inc	713 Amsterdam Woodstock Ill 24-30	General Electric Co
45-33 Davis St	CrystalX-Westlake Corp Lenni Rd Lenni Mills Pa 34	Specialty Electronic Components Dept W
Long Island City 1 NY 1-15-17-26-35-40 Associated Eng'g & Mfg Corp	Cudner & O'Connor Co	Genesee St Auburn NY General Mills Inc Chemical Div
210 Stonehouse Rd Glen Ridge NJ 27-31-32	4035 W Kinzie St Chicago 24 Ill 30-35	South Kensington Rd Kankakee Ill 1-15
Atlas Mineral Products Co	Decimeter Products Co 730 Hooker St Denver 4 Colo 21	General Plastics Corp
Mertztown Pa 3-15-30	Delta Chemical Works 1-3-4-5-6-7-8-9-10-11-12-	165 3 Ave Paterson 4 NJ Glaser Lead Co
Auburn Mfg Co Stack St Middletown Conn 36-38	23 W 60 St 19-24-25-26-27-28-29-30-31-32-	31 Wyckoff Ave Brooklyn 37 NY 21
Axler Associates Inc	New York 23 NY 37-38-39-42	Glyco Products Co
102-42 43 Ave Corona 68 NY 15	Delta Co 333 W 24 Pl Chicago 16 Ill 14-15	350 5 Ave New York 1 NY Goldsmith Bros Smelting & Refining Co
Babbitt Chemical Co 38 Prospect St New Bedford Mass 15-17-18	Diamonite Products Mfg Co	1300 W 59 St Chicago 36 Ill 21
Bacon Industries	217 4 St NE	Goodrich Industrial Products Co B F
192 Pleasant St Watertown 72 Mass 1	Canton 2 Ohio 4 Dixon Crucible Co Joseph	500 S Main St Akron 18 Ohio
Bakelite Co Div Union Carbide & Carbon Corp 30 E 42 St New York 17 NY 1-15-34-38	167 Wayne St Jersey City 3 NJ 15	Grafo Colloids Corp 310 Wilkes Pl Sharon Pa 26
Baker & Co	Dow Chemical Co	Gulton Industries Inc
113 Astor St Newark 2 NJ 6	Midland Mich 5-17-22-40 Dow Corning Corp 1-14-15-18-26-	212 Durham Ave Metuchen NJ
Baker Chemical Co JT Phillipsburg NJ 5-6-7-8-10	Midland Mich 35-38-41	Handy & Harman 82 Fulton St New York 38 NY 21-28-39
Barco Chemical Products Co	Drakenfeld & Co B F	Hardman Co H V
701 S LaSalle St Chicago 5 Ill 6	45 Park Pl New York 7 NY 39 Du-Co Ceramics Co	571 Cortlandt St Belleville 9 NJ 3-35-36
Barium & Chemicals Inc	Box 278 Saxonburg Pa 3-4	Harshaw Chemical Co 1945 E 97 St Cleveland 6 Ohio 5-6-17-22
Willoughby Ohio 5 Barrett Div Allied Chemical & Dye Corp	Dunton Co M W	High Vacuum Equipment Corp
40 Rector St 1-15-18-30-	7 Goff St Providence RI 21	2 Churchill Rd Hingham Mass 23
New York 6 NY 33-35-40	Du Pont De Nemours & Co EI 1-5-6-7-8-9-10-	Hi Grade Alloy Corp 1236 S Talman Chicago 8 Ill 12-21
Barrett Varnish Co 1532 S 50 Court Cicero 50 Ill 3-19-25-41	Wilmington 98 14-15-17-18-19-21-22-25-27-	Hitemp Wires Inc
Beck's Inc	Dela 28-29-30-31-32-39-40-41	26 Windsor Ave Mineola NY 24
298 E 5 St St Paul 1 Minn 14-15	Eastern Chemical Corp 34 Spring St Newark 4 NJ 6-8-9	Hi-Test Chemical Corp 722-64 St Brooklyn 20 NY 42
Belmont Smelting & Refining Works 330 Belmont Ave Brooklyn 7 NY 6-18-21-37	Eastern Precision Resistor Corp	Hogen Lahs Inc
Biggs Co Carl H	675 Barbey St Brooklyn 7 NY 14-15-35	155 Perry St New York 14 NY
2255 Barry Ave Los Angeles 64 Calif 14-15	Eastern Smelting & Refining Corp 109 W Brookline St Boston 18 Mass 39	Hommel Co O
Bio-Rad Labs 800 Delaware St Berkeley Calif 11	Eastman Kodak Co	209 4 Ave Pittsburgh 22 Pa 19-39 Hooper Chemical Corp
Bios Labs Inc 1-3-4-5-6-7-8-9-10-11-	343 State St Rochester 4 NY 1-25-42	PO Box 313
17 W 60 St 12-19-24-25-26-27-28-29-	Electrical Refractories Co E Clark St E Palestine Ohio 4	Rutherford NJ 6-7-8-9-10-11-37
New York 23 NY 30-31-32-37-38-39-42 Birnbach Radio Co	Electrical Specialty Co	Houghton Laboratories Inc 302 Houghton Ave Olean NY
145 Hudson St New York 13 NY 4	158 11 St	Hunt Co Philip A
Biwax Corp	San Francisco 3 Calif 15-18-26-35-38-42 Electro-Chemical Eng'g & Mfg Co	Foot of Roosevelt Pl
3445 Howard St Skokie Ill 18-42 Bloomingdale Rubber Co	750 Broad St Emmaus Pa 3-15-18-30	Hupp Electronics Co Div Hupp Corp
1 Flower St Chester Pa 1	Electro-Technical Products Div	743 Circle Ave Forest Park III
Borden Co Chemical Div	Sun Chemical Corp 113 E Centre St Nutley 10 NJ 15	Huron Industries
350 Madison Ave New York 17 NY 1-15-18-40-42	Elektro Serv Co	Industrial Accessories Inc
New York 17 NY 1-15-18-40-42 Borthig Co George C	480 Johnson Ave Brooklyn 37 NY 34	Line Rd Matawan NJ
PO Box 115	Elgin National Watch Co 107 National St Elgin III 26	Injection Molders Supply Co
E Rutherford NJ 19-22-41	107 National St Elgin III 26 Ellanar Chemical Co	3514 Lee Rd Gleveland 20 Ohio 26-38 Insl-x Sales Co
Bow Solder Products Co 251 Freeman St Brooklyn 22 NY 21	2308 Oakton St Evanston Ill 12-21-35	The Paris of Di
Bram Chemical Co Metals & Minerals Div		26 Rittennouse Pi
820 65 Ave Philadelphia 26 Pa 8-9-27-37-39	Emerson & Cuming Inc	26 Rittenhouse Pl Ardmore Pa
Philadelphia 26 Pa 8-9-27-37-39 Brooklyn Paint & Varnish Co	Emerson & Cuming Inc 869 Washington St	Ardmore Pa 15-19-25-41-42 Insulating Fabricators of NE Inc
	Emerson & Cuming Inc 869 Washington St Canton 1 Mass 1-3-30-34-35-36 Enflo Corp	Ardmore Pa 15-19-25-41-42 Insulating Fabricators of NE Inc 69 Grove St Watertown 72 Mass 38 Insulation Mfrs Corp
50 Jay St Brooklyn 1 NY 14-15	Emerson & Cuming Inc 869 Washington St Canton 1 Mass 1-3-30-34-35-36 Enflo Corp Rte 38 at Airport Circle	Ardmore Pa 15-19-25-41-42 Insulating Fabricators of NE Inc 69 Grove St Watertown 72 Mass 38 Insulation Mfrs Corp 565 W Washington Blvd
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50 Jay St Brooklyn 1 NY  Burnley Battery & Mfg Co 103 Clay St North East Pa Caddell-Burns Mfg Co 40 E 2 St Mineola NY Caig Labs 46 Stanwood Rd New Hyde Park NY 13	Emerson & Cuming Inc 869 Washington St Canton 1 Mass Enflo Corp Rte 38 at Airport Circle Pennsauken 11 NJ Enthone Inc 442 Elm St New Haven 8 Conn 6-7-15-17 Eric Resistor Corp 644 W 12 St Eric 6 Pa Federated Metals Div American Smelting & Refining Co	Ardmore Pa 15-19-25-41-42 Insulating Fabricators of NE Inc 69 Grove St Watertown 72 Mass 38 Insulation Mfrs Corp 565 W Washington Blvd Chicago 39 Ill 38-41 Isolantite Mfg Corp Warren Ave Stirling NJ 15otopes Specialties Co 703 S Main St Burbank Calif 11 Jodee Plastics Co 218 Shepherd Ave Brooklyn 8 NY 38
50 Jay St Brooklyn 1 NY Burnley Battery & Mfg Co 103 Clay St North East Pa 21 Caddell-Burns Mfg Co 40 E 2 St Mineola NY Caig Labs 46 Stanwood Rd New Hyde Park NY 13 Canadian Radium & Uranium Corp 630 5 Ave New York 20 NY 8-9-11	Emerson & Cuming Inc 869 Washington St Canton 1 Mass 1-3-30-34-35-36 Enflo Corp Rte 38 at Airport Circle Pennsauken 11 NJ 84 Enthone Inc 442 Elm St New Haven 8 Conn 6-7-15-17 Erie Resistor Corp 644 W 12 St Erie 6 Pa 4 Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 NY 21-37	Ardmore Pa 15-19-25-41-42 Insulating Fabricators of NE Inc 69 Grove St Watertown 72 Mass 38 Insulation Mfrs Corp 555 W Washington Blvd Chicago 39 Ill 38-41 Isolantite Mfg Corp Warren Ave Stirling NJ Isotopes Specialties Co 703 S Main St Burbank Calif 11 Jodee Plastics Co 213 Shepherd Ave Brooklyn 8 NY Johns-Manville Dutch Brand Div
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309 W Jackson Blvd Chicago 20 111 Kester Solder Co	15
Kester Solder Co 4201 Wrightwood Ave Chicago 39 Ill	21
Div NY Air Brake Co	
3529 Washington St Boston 30 Mage	15
Kirchberger & Co M 83 W Forest Ave Englewood NJ	4
Koppers Co Koppers Bldg	
Pittsburgh 19 Pa 1-15-18-29. Krylon Inc	30-33
Krylon Inc 18 W Airy St	
Norristown Pa 14-15-19. Laminated Sheet Products Corp	24-29
449 Neponset St Norwood Mass	38
La Moree C D	41
2433 Birkdale St Los Angeles 31 Calif Lapp Insulator Co Radio Specialties Div	41
Lunter Charles LeRoy NY	4
3550 Touth Ave Chicago 45 Ill Lithium Corp of America 2500 Rand Tower Minnespelie 2 Minnespelie 2	25
2500 Rand Tower Minneapolis 2 Minn	5
2500 Rand Tower Minneapolis 2 Minn Litton Eng'g Labs	9
Logo Inc	26
12904 S Stony Island Ave 14-15-18-19-2	20-28-
Chicago 33 Ill 29-30- London Chemical Co	34-41
1535 N 31 Ave Melrose Park L&R Mfg Co	21
577 Elm St Arlington N.I	13-17
McDowell Electronics Inc	
105 Forrest St Metuchen NJ Maas & Waldstein Co	16
2121 McCarter Hwv	
Newark 4 NJ 19-25-28- Mackay Inc AD	29-30
198 Broadway	
New York 38 NY 8-9-10-11-27-31- Mallinckrodt Chemical Works	32-37
2 & Mailinckrodt Sts	
St Louis 7 Mo Marblette Corp	10-22
Marblette Corp 37-31 30 St Long Island City 1 NY	35
Marbon Chemical Div Borg-Warner Corp 7165 Chicago Ave Gary Ind	1
Markem Machine Co 150 Congress St Keene NH	
Markwik Mfg Co	24
31 Sexton Rd Plainview LI NY Martindale Electric Co	24
Box 617	
Edgewater Branch Cleveland 7 Ohio Matthews & Co Jas H	17
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Mayfair Molded Products Corp 3700 N Rose St Franklin Park III Merck & Co Inc Chemical Div Rahway NJ 6-7-8-9. Merix Chemical Co 1021 E 55 St Chicago 15 III 15-26.	24 36 -10-11
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New England Tape Co	10
30 Tower St Hudson Mass Norco Mfg Co	18
392 Bleecker St New York 14 NY Norton Co	8-9
1 New Bond St Worcester 6 Mass NRC Equipment Corp	4-15
Sub National Research Corp 160 Charlemont St	
Newton Highlands 61 Mass	27
NRD Instrument Co 6425 Etzel Ave St Louis 14 Mo	11
Nuclear-Chicago Corp 223 W Erie St Chicago 10 III	11
Nuclear Corp of America Empire State Bldg New York NY	11
Nukem Products Corp 111 Colgate Ave	
Buffalo 20 NY 1-2-3- Nye Inc Wm F	15-30-35
10 Howland Rd Fairhaven Mass	26-40
Oakite Products Inc 70 Rector St New York 6 NY	15-17-40
Olin Mathieson Chemical Corp 460 Park Ave New York 22 NY	22-40
Olympic Plastics Co 3471 S LaCienege Blvd	
Los Angeles 16 Calif Organic Development Corp	34
8841 Orangewood Ave	1 0 04
Anaheim Calif Painton & Co Ltd	1-8-24
c/o British Electronic Sales Co Box 1 Oakland Gardens 64 NY	.32
Paisley Products Inc Div Morningstar	
Nicol Inc	1-2-3-15
Pettinos Inc Charles	
1 E 42 St New York 17 NY Pfaudler Co	26
1000 West Ave Rochester 3 NY Philadelphia Quartz Co	4
1146F Public Ledger Bldg Philadelphia 6 Pa	1-2
Phillips Process Co	24
192 Mill St Rochester 14 NY Photocircuits Corp 31 Sea Cliff Ave Glen Cove NY	
PIC Design Corp	14-15
477 Atlantic Ave E Rockaway LI N' Plasti-Kote Inc	Y 26
9801 Harvard Ave	28-29-30
Polymer Corp 2120 Fairmount Ave Reading Pa	15
Polymer Industries Inc	1.,
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Quietrole Co	-2-15-18
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Quietrole Co 395 St John St Spartanburg SC Radio Corp of America 415 S 5 St Harrison NJ	
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Quietrole Co 395 St John St Spartanburg SC Radio Corp of America 415 S 5 St Harrison NJ Radium Chemical Co 161 E 42 St New York 17 NY Randolph Products Co Carlstadt NJ Rascher & Betzold Ine 730 N Franklin St Chicago 10 Ill 5-6-7-8-9- Raybestos-Manhattan Ine 61 Willett St Passaic NJ Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass Raytheon Mfg Co Microwave & Power Tube Operation dry Ave Waltham Mass Reichhold Chemicals Ine 525 N Broadwar White Plains NY Reilly Tar & Chemical Corp 1615 Merchant Bank Bldg Indianapolis 4 Ind Republic Rubber Div Lee Rubber & Ti 1410 Albert St Youngstown 1 Ohio Research Specialties Co 2005 Hopkins St Berkeley 7 Calif Richardson Co 27 Ave & Lake St McIrose Park Ill Roberts Toledo Rubber Co 1200 Prospect Ave Toledo 6 Ohio Rogers Corp Rogers Corp Rogers Corp 225 Belleville Ave Bloomfield NJ Rubbercaft Corp of Calif 1800 W 220 St Torrance Calif Ruby Chemical Co 68-70 McDowell St Columbus 16 Ohio Sage Labs Inc	26 31-32 8-9-11 20 10-11-12 15 4 8 Foun- 4 1-22-35 15-19-33 re Corp 36 11 34 36 36 13-17-24 1 18-36-38
Quietrole Co 395 St John St Spartanburg SC Radio Corp of America 415 S 5 St Harrison NJ Radium Chemical Co 161 E 42 St New York 17 NY Randolph Products Co Carlstadt NJ Rascher & Betzold Ine 730 N Franklin St Chicago 10 Ill 5-6-7-8-9- Raybestos-Manhattan Inc 61 Willett St Passaic NJ Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass Raytheon Mfg Co Microwave & Power Tube Operation dry Ave Waltham Mass Reichhold Chemicals Inc 525 N Broadwar White Plains NY Reilly Tar & Chemical Corp 1615 Merchant Bank Bldg Indianapolis 4 Ind Republic Rubber Div Loe Rubber & Ti 1410 Albert St Youngstown 1 Ohio Research Specialties Co 2005 Hopkins St Berkeley 7 Calif Richardson Co 27 Ave & Lake St McIrose Park Ill Roberts Toledo Rubber Co 1200 Prospect Ave Toledo 6 Ohio Rogers Corp Rogers Corp Rogers Corp of Calif 1800 W 220 St Torvance Calif Ave Rloomfield NJ Rubbercraft Corp of Calif 1800 W 220 St Torvance Calif 3-15- Ruby Chemical Co 68-70 McDowell St Columbus 16 Ohio Sare Labs Inc 30 Guinan St Waltham 54 Mass Safetee Glass Co	26 31-32 8-9-11 20 10-11-12 15 4 8 Foun- 4 1-22-35 15-19-33 re Corp 36 11 34 36 36 13-17-24 1 18-36-38
Quietrole Co 395 St John St Spartanburg SC Radio Corp of America 415 S 5 St Harrison NJ Radium Chemical Co 161 E 42 St New York 17 NY Randoph Products Co Carlstadt NJ Rascher & Betzold Inc 730 N Franklin St Chicago 10 Ill 5-6-7-8-9- Raybestos-Manhattan Inc 61 Willett St Passaic NJ Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass Raytheon Mfg Co Waltham Mass Raytheon Mfg Co Microwave & Power Tube Operation dry Ave Waltham Mass Reichhold Chemicals Inc 525 N Broadwav White Plains NY Reilly Tar & Chemical Corp 1615 Merchant Bank Bldg Indianapolis 4 Ind Republic Rubber Div Lee Rubber & Ti 1410 Albert St Youngstown 1 Ohio Research Specialties Co 2005 Hopkins St Berkeley 7 Calif Richardson Co 27 Ave & Lake St McIrose Park Ill Roberts Toledo Rubber Co 1200 Prospect Ave Toledo 6 Ohio Rogers Corp Rogers Corp Rogers Corp Rogers Corp Rogers Corp Rosco Labs 29 Moore St Brooklyn 6 NY Rubber & Asbestos Corp 225 Belleville Ave Rloomfield NJ Rubbereraft Corp of Calif 1800 W 220 St Torrance Calif Ruby Chemical Co 68-70 McDowell St Columbus 16 Ohio Sage Labs Inc 30 Guinan St Waltham 54 Mass Safetee Glass Co 4717 Stenton Ave Philadelphia 44 P St Eloi Corp	26 31-32 8-9-11 20 10-11-12 15 4 8 Foun- 4 1-22-35 11 34 36 36 13-17-24 1 18-36-38 21 21 21 23 34
Quietrole Co 395 St John St Spartanburg SC Radio Corp of America 415 S 5 St Harrison NJ Radium Chemical Co 161 E 42 St New York 17 NY Randolph Products Co Carlstadt NJ Rascher & Betzold Ine 730 N Franklin St Chicago 10 Ill Raybestos-Manhattan Ine 61 Willett St Passaic NJ Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass Raytheon Mfg Co Waltham Mass Raytheon Mfg Co Waltham Mass Raytheon Mfg Co Microwave & Power Tube Operation dry Ave Waltham Mass Reichhold Chemicals Ine 525 N Broadwar White Plains NY Reilly Tar & Chemical Corp 1615 Merchant Bank Bldg Indianapolis 4 Ind Republic Rubber Div Lee Rubber & Ti 1410 Albert St Youngstown 1 Ohio Research Specialties Co 2005 Hopkins St Berkeley 7 Calif Richardson Co 27 Ave & Lake St Mchrose Park Ill Roberts Toledo Rubber Co 1200 Prospect Ave Toledo 6 Ohio Rogers Corp Rogers Conn Rosco Labs 29 Moore St Brooklyn 6 NY 3-7- Rubber & Asbestos Corp 225 Belleville Ave Bloomfield NJ Rubbercraft Corp of Calif 1800 W 220 St Torrance Calif Ruby Chemical Co 68-70 McDowell St Columbus 16 Ohio Sage Labs Inc 30 Guinan St Waltham 54 Mass Safetee Glass Co 4717 Stenton Ave Philadelphia 44 P St Eloi Corp 3509 Debolt Rd Newtown Ohio	26 31-32 8-9-11 20 10-11-12 15 4 s Foun- 4 1-22-35 15-19-33 re Corp 36 11 34 36 36 13-17-24 1 18-36-38 21 21 a 34
Quietrole Co 395 St John St Spartanburg SC Radio Corp of America 415 S 5 St Harrison NJ Radium Chemical Co 161 E 42 St New York 17 NY Randoph Products Co Carlstadt NJ Rascher & Betzold Inc 730 N Franklin St Chicago 10 Ill 5-6-7-8-9- Raybestos-Manhattan Inc 61 Willett St Passaic NJ Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass Raytheon Mfg Co Waltham Mass Raytheon Mfg Co Microwave & Power Tube Operation dry Ave Waltham Mass Reichhold Chemicals Inc 525 N Broadwav White Plains NY Reilly Tar & Chemical Corp 1615 Merchant Bank Bldg Indianapolis 4 Ind Republic Rubber Div Lee Rubber & Ti 1410 Albert St Youngstown 1 Ohio Research Specialties Co 2005 Hopkins St Berkeley 7 Calif Richardson Co 27 Ave & Lake St McIrose Park Ill Roberts Toledo Rubber Co 1200 Prospect Ave Toledo 6 Ohio Rogers Corp Rogers Corp Rogers Corp Rogers Corp Rogers Corp Rosco Labs 29 Moore St Brooklyn 6 NY Rubber & Asbestos Corp 225 Belleville Ave Rloomfield NJ Rubbereraft Corp of Calif 1800 W 220 St Torrance Calif Ruby Chemical Co 68-70 McDowell St Columbus 16 Ohio Sage Labs Inc 30 Guinan St Waltham 54 Mass Safetee Glass Co 4717 Stenton Ave Philadelphia 44 P St Eloi Corp	26 31-32 8-9-11 20 10-11-12 15 4 8 Foun- 4 1-22-35 11 34 36 36 13-17-24 1 18-36-38 21 21 21 23 34

Southern Access to	
Sanders Associates 95 Canal St Nashua NH	14
Saucreisen Cements Co 1045 N Canal St Pittsburgh 15 Pa Savonburg Commission	1-3-15
Saxonburg Ceramics Saxonburg Pa Schrack Electrical Sales Corp	4
AE W O1 C. Nam Vanl. o4 Mar	4
Schenectady Varnish Co Congress St & 9 Ave Schenectady 3 NY	16-41
Scientific Glass Apparatus Co 100 Lakewood Terrace	10-41
Bloomfield NJ 1-3-5-6-7-17-23 Sel-Rex Corp	3-30-42
155 Manchester Pl Newark 4 NJ	6-7
Shannon Luminous Materials Co 7356 Santa Monica Blvd	
Hollywood 46 Calif Sherwin-Williams Co	8-9-27
101 Prospect Ave Cleveland 1 Ohio 19-25-28-29	9-30-40
Skiatron Electronics & TV Corp 180 Varick St New York 14 NY	31-32
Slip Ring Co of America 3612 W Jefferson Blvd Los Angeles 16 Calif	14
Smooth-On Mfg Co	1.9
572 Communipaw Ave Jersey City 4 NJ	3-35
Solar Aircraft Co 2200 Pacific Hwy San Diego 12 Calif	4-15
Solar Mfg Corp 4553 Seville Ave Los Angeles 58 Calif	
Sonneborn Sons L	-18-19-
	9-30-33
Dover Ohio Spraylat Corp	15
1 Park Ave New York 16 NY Spring Packing Corp	15
332 S Michigan Ave Chicago 4 Ill Sterling Varnish Co	15
Haysville Borough	9-25-41
Stevenson Bro 110 Race St	
Steward Mfg Co D M	8-26-42
Chattanooga Tenn Stroblite Co	4
75 W 45 St New York 36 NY Stupakoff Div Carborundum Co Latrobe Pa	8
Sun Chemical Corp 10-10 44 Ave Long Island City 1 NY	
Superex Electronics Corp	8-17-26
Superior Flux & Mfg Co 1302 Ontario St Cleveland 13 Ohio	21
Superior Steatite & Ceramic Corp 91 W Forest Ave Englewood NJ	4
Swedlow Plastics Co 6986 Bandini Blvd Los Angeles 22 Ca	lif 1
Sylvania Electric Products Inc 1740 Broadway	
New York 19 NY 8-9-25-2 Synthane Corp	
Montgomery Ave Oaks Pa Taylor Fibre Co	34
Norristown Pa Telectro Industries Corp	18
35-18 37 St Long Island City 1 NY Teleradio Eng'g Corp Shannon & Barrett Sts Wilkes-Barre	
Terrell Corp 19 Lane St	
Waltham 54 Mass 1-2-3-1. Thermal Refractories Corp	5-35-42
4501 Dell Ave N Bergen N.I Thermo Materials Inc	3-4-15
4040 Campbell Ave Menlo Park Calif	
1601 Trapelo Rd Waltham 54 Mass Tricon Mfg Co	11
Tricon Mfg Co 8012 Wallace St Chicago 20 Ill Tri-Point Plastics Inc	21
175-I U Willets Rd Albertson LI NY TV Hardware Mfg Co Div Textron Inc	3 t 13
400 S Wyman St Rockford Ill U B S Chemical Corp	
491 Main St Cambridge 42 Mass Ultra-Violet Products Inc 5114 Walnut Grove Ave	1-0-10
San Gabriel Calif	8
Union Carbide and Carbon Corp Silicones Div 30 E 42 St New York 17 NY 16-18-35-3	6-38-41
Tinitad Minaral & Chemical Corn	
U S Plywood Corp 55 W 44 St New York 36 NY	1-3
U S Radium Corp Morristown NJ	31
U S Rubber Co 1230 6 Ave New York 20 NY	1-36
U S Stoneware Co Alite Div Orville Okio	4
United Wire & Supply Corp 1497 Elmwood Ave Providence 7 RI	21

Vitro Corp of America	Coil Winders Inc	Muirhead Instruments Inc
261 Madison Ave New York 16 NY 15 Vocalite Screen Corp	New York Ave Westbury LI NY 1-2-3-4-5-6-7-8	677 5 Ave New York 22 NY 1-2 Mystic Transformers Inc
19 Debevoise Ave Roosevelt NY 29	Communication Accessories Co	63 Swanton St Winchester Mass 1-2-3-4
Volk Radiochemical Co 5412 N Clark St Chicago 40 Ill 11	110 St & 71 Hwy Hickman Mills Mo 1-2-3	New York Coil Co 40 2 Ave Phoenixville Pa 1-2-3-7-8
Vorac Co	Communication Equipment & Eng'g Co 5646 W Race Ave Chicago 44 Ill 2	40 2 Ave Phoenixville Pa 1-2-3-7-8 National Aircraft Corp Electronics Div 1-2-3
147 Meadow Rd Rutherford NJ 1-15-19	Del Electronics Corp	3411 Tulare Ave Burbank Calif 4-5-1-8
Kutherford NJ 1-15-19 Waldom Electronics Inc	41 N MacQuesten Pkwy Mt Vernon NY 4-5 Delevan Electronics Corp	National Coil Co P O Box 1237 Sheridan Wyo 1-2-3-4-7-8
4625 W 53 St Chicago 32 III 15-19-20	Roycroft Campus	National Company Inc
Walsco Electronics Mfg Co 100 W Green St	E Aurora NY 1-2-3-7-8 Diamond Coils Inc	61 Sherman St Malden 48 Mass 7-8 New York Transformer Co
Rockford Ill 3-12-13-14-15-17-19-21-25-41	540 39 St Union City NJ 1-2-5	3 Ave Alpha NJ
Wax Corp of America 21-29 Dunham Pl Brooklyn 11 NY 42	Eastman Pacific Co	North Hills Electric Co 402 Sagamore Ave Mineola Ll NY 7-8
Western Gold & Platinum Co	2320 E 8 St Los Angeles 21 Calif 1-2-3-7 Electran Mfg Co	402 Sagamore Ave Mineola Ll NY 7-8 Nothelfer Winding Labs Inc
525 Harbor Blvd Belmont Calif 4-28-29	1901 Clybourn Ave Chicago 14 Ill 1-2-3-4-5	106 Albemarle Ave Trenton 8 NJ 1-3-4-5
White Dental Mfg Co S S Industrial Div 10 E 40 St New York 16 NY 3	Electrical Windings Inc 2015 N Kolmar Ave Chicago 39 Ill 3-4	NYT Electronics Inc 2979 N Ontario St
Wildberg Bros Smelting & Refining Co	Electro Assemblies Inc	Burbank Calif 1-2-3-4-5-7-8
742 Market St San Francisco 2 Calif 6-21 Wisconsin Porcelain Co	4444 N Kedzie Ave Chicago 25 Ill 7-8	Ogden Coil & Transformer Co 3323 W Cermak Rd Chicago 23 lil 2-3-4-5
121 Lincoln St Sun Prairie Wisc 4	Electro Eng'g Works _401 Preda St San Leandro Calif 1-2-3-4-5-8	Ohmite Mfg Co
Workman TV Inc 309 Queen Anne Rd Teaneck NJ 1-13-26	Electronic Coil Co	3601 Howard St Skokie Ill 5-7-8
Zenith Plastics Co	2506 N Ontario St Burbank Calif 7-8 Electronic Transformer Co	Ortho Filter Corp 196 Albion Ave Paterson 2 NJ 1-2-3-4-5
1600 W 135 St Gardena Calif 4-38	70 Washington St Brooklyn 1 NY 1-2-3-5	Osborne Electronic Corp
Zophar Mills Inc 112 26 St Brooklyn 32 NY 14-15-18-33-42	El-Rad Mfg Co _ 2800 W Cullom Ave Chicago 18 Ill 2-7-8	712 S E Hawthorne Blvd Portland 14 Ore 1-2-3-5-7-8
	Essex Electronics Div NYT Electronics	Ochorne Transformer Corn
16—CHOKES	Inc 7303 Atoll Ave N Hollywood Calif 7-8	948 E Lafayette Ave Detroit 7 Mich 3-4-5-8 Oxford Electric Corp
Chokes, A-F 1	Essex Electronics	3911 S Michigan Ave Chicago 15 III 1-2-3
Chokes, audio	550 Springfield Ave Berkeley Heights NJ 7-8	Painton & Co Ltd c/o British Electronics Sales Co Box 182
Chokes, filter 3	Ferranti Electric Inc 30 Rockefeller Plaza	Oakland Gardens 64 NY
Chokes, heavy-wire 4	New York 20 NY 1-2-3-4-5	Palo Alto Engig Co
Chokes, power 5	Filtron Co 10023 W Jefferson Blvd	620 Page Mill Rd Palo Alto Calif 1-2-3-4-5 Partridge Transformers Ltd
Chokes, relay	Culver City Calif 2-3-4	Roebuck Rd
Chokes, R-F receiving 7	Filtron Co 131-15 Fowler Ave	Tolworth Surrey England 1-2-3-4-5-6 Peerless Electrical Products
Chokes, R-F transmitting 8	Flushing 55 NY 2-3-4-5-7-8	1515 S Manchester Ave
Ace Coil & Electronics Co	Fisher Eng'g Inc	Anaheim Calif Penn-East Eng'g Corp
916 Lincoln Hwy Metuchen NJ 7-8 Aerovox Corp Pacific Coast Div	Foster Transformer Co	Willow St Kutztown Pa 1-2-3
2724 S Peck Rd Monrovia Calif 1-2-3-4-5-7-8	3820 Colerain Ave Cincinnati 23 Ohio 2-3 Freed Transformer Co	Permoflux Products Co 4101 San Fernando Rd
Airpax Products Co Middle River Baltimore 20 Md 1-2-5	17-18-36 Weirfield St	Glendale 4 Calif
Aladdin Electronics	Brooklyn 27 NY 1-2-3-4-5	Pye Canada Ltd
100 Blanton Ave Nashville 10 Tenn 3-7 American Coil Inc	General Instrument Corp F W Sickles Div Chicopee Mass 4-7-8	82 Northline Rd Toronto 16 Ontario Canada 1-2-3
21-28 45 Rd Long Island City 1 NY 7	General Instrument Corp	Q L C Corp
APW Co	Automatic Mfg Div 65 Gouveurner St Newark 4 NJ 1-7	Flocktown Rd Long Valley NJ 7 Radio Industries Inc
72 W Main St Rockaway NJ 3 Arco Transformer & Electric Corp	Geotronic Labs Inc	5225 N Ravenswood Ave Chicago 25 III
1602 S Hanna St	1314 Cedar Hill Ave Dallas 8 Texas 1-2-3 Goslin Electric & Mfg Co	Raypar Inc 7800 W Addison St Chicago 34 Ill 3-7-8
Ft Wayne Ind 1-2-3-4-5-6-7 Artted Co	2921 W Olive Ave Burbank Calif 1-2-3-4-5	Raytheon Mfg Co
367 Worthington St	Gramer-Halldorson Transformer Corp	100 River St Waltham 54 Mass 2-3-5 Redman Electronics Corp
Springfield 3 Mass 3-4-6-7-8 Atlas Eng'g Co	2734 N Pulaski Rd Chicago 39 III 1-2-3-4-5 Grand Ra-Tronics Inc	92 Prospect St Thompsonville Conn 3-7
176 Blue Hill Ave	17360 Hayes Rd Grand Haven Mich 2-3-5	Research Development Mfg Inc 429 E Collom St Philadelphia 41 Pa 7-8
Roxbury 19 Mass 1-2-3-4-5-6 Automatic Coil Co	Grand Transformers Inc Beechtree & Marion Sts	RK Mfg Co
415 Bedford Ave	Grand Haven Mich 1-2-3-4-5	P O Box 112 Marion Ill 2-3
Brooklyn 11 NY 1-2-3-4-5-6-7-8 Avion Div ACF Industries Inc	Hermetic Seal Transformer Co P O Box 277 Garland Texas 2-3-5	Rollan Electric Co 8233 S Princeton Ave Chicago 20 Itl 1-2-7-8
11 Park Pl Paramus NJ 1-2-3-4-5-6-7-8	Highland Eng'g Co	Ross Mfg Co
Ballastran Corp	90 Magnolia St Westbury NY 1-2-3-4-5-6 Hi-Q Div Aerovox Corp	2538 Peterson Ave Chicago 45 Ill 1-2-3-4-5-6-7-8
1701 N Calhoun St Ft Wayne Ind 1-2-3-4-5 Barker & Williamson Inc	Box 68 Myrtle Beach SC 7	Saratoga Industries
Canal & Beaver Sts Bristol Pa 7-8	Inductor Eng'g Inc 117 Schley Ave Lewes Del 1-2-3	Congress & Ballston Aves Saratoga Springs NY 3
Barwood Electronics Inc 921 E Broadway Glendale 5 Calif 2-3	Insuline Corp of America	Sigmadyne of Conn
Basler Electric Co	186 Granite St Manchester NH 7-8 International Resistance Co	P O Box 869 Port Chester NY 3-4-5 Signal Transformer Co
601 5 St Highland Ill 2-3-4-5 Better Coil & Transformer Corp	401 N Broad St Philadelphia 8 Pa 7	902 Coney Island Ave
Goodland Ind 1-2-3	Johnson Co E F Waseca Minn 8	Brooklyn 18 NY 1-2-3-4-5
Bittermann Electric Co Barlow St Canaan Conn 1-2-3-4-5-6	Johnson Electronics Inc	Skysweeper Inc P O Box 92 McHenry III 1-2-3-4-5
Bogart Mfg Corp	521 Elwell St Orlando Fla 1-2-3-4-6-7-8 Kenyon Transformer Co	SNC Mfg Co P O Box 277 Oshkosh Wis 1-2-3-4-5
315 Seigel St Brooklyn 6 NY 7-8 Bogue Electric Mfg Co	840 Barry St New York 59 NY 1-2-3-4-5	Southwestern Industrial Electronics Co
Iowa Ave Paterson 3 NJ 5	Keystone Products Co	2831 Post Oak Rd Houston 19 Texas 1-2-5
Bundy Electronics Corp 171 Fabyan Pl Newark 12 NJ 3	904 23 St Union City NJ 1-2-3-4-5-6 Laboratory For Electronics Inc	Specific Electronics 570 W Woodbury Rd Altadena Calif 7
Burnell & Co	75 Pitts St Boston 14 Mass 1-2-3-5-7-8	Standard Coil Products Co
45 Warburton Ave Yonkers 2 NY 1 Cable Electric Products	Langevin Mfg Corp 47-37 Austell Pl	2085 N Hawthorne Ave Melrose Park III
234 Daboll St Providence 7 RI 6	Long Island City 1 NY 1-2-3-4-5	Standard Electronics Div Radio Engly Labs
Caddell-Burns Mfg Co 40 E 2 St Mineola NY 7-8	Leonard Electric Products Co 67 34 St Brooklyn 32 NY 3-7-8	30 & Borden Sts Long Island City NY 1-2-3-5
Caledonia Electronics & Transformer	Litton Industries of Calif	Stangards Winding Co
Corp P O Box 298	336 N Foothill Rd Beverly Hills Calif 1-2-3 Magnatran Inc	137-151 Walsh Ave Newburgh NY 3-5-6-7-8 Sterling Transformer Corp
Caledonia NY I-2-3-5 Cambridge Thermionic Corp	PO Box 211 Kearny NJ 2-3-5	297 N 7 St Brooklyn II NY 1-2-3-4-5
445 Concord Ave Cambridge 38 Mass 1-7-8	Merit Coil & Transformer Corp 4427 N Clark St Chicago 40 Ill 1-2-3-4-5-7	Strong Electric Corp 87 City Park Ave Toledo 1 Ohio 4
Carol Electronics Corp 315 W Stephen St Martinsburg W Va 2-4-5	Microtran Co	Superex Electronics Corp
Central Coil Co	145 E Mineola Ave	4 Radford Pl Yonkers NY 1-2-3-1-5-1-6
1720 N Luett St Indianapolis 22 Ind 1-2-3-4-5-6-7-8	Valley Stream NY 1-2-3-4-5 Millen Mfg Co James	Tele-Coil Co 2733 Saunders St Camden 5 NJ 4-7-8
Central Transformer Co	150 Exchange St Malden 48 Mass 7-8	Telex
910 W Jackson Blvd Chicago 7 Ill 1-2-3-4-5 Chicago Standard Transformer Corp	Miller Co J W 5917 S Main St Los Angeles 3 Calif 3-4-7-8	The state of the s
3501 W Addison St Chicago 31 Ill 1-2-3	Miller Co Sanford	Shannon & Barrett Sts Wilkes-Barre Pa 1-0
Coil Company of America 207 Washington St Northvale NJ 1-2-3-4-5-6	691 Bedford Ave Brooklyn 6 NY 5 Milwaukee Transformer Co	Tel-Rad Electronics Corp 73-20 Trotting Course Lane
Coilcraft Inc Gary Ill 1-2-3-4-7-8	5231 N Hopkins St Milwaukee 12 Wis 1-2-3-4	Glendale LI 27 NY 2-3-4-5-1-5
Coil Eng'g Mfg Co Roanoke Ind 1-2-3	Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY 1-2-3-4-5-6-7-8	Todd Products Co 156 Gramatan Ave Mt Vernon NY 1-2-3-4-5
APPRINCE THE 1-2-0	233 AMESCY DE DICURIYH OO INI 1-2-0-4-0-0-(-5	AUV Witnessen Anna Para - Anna

Torwico Electronics Inc	4 0 0 1 D:	
1090 Morris Ave Union NJ 2-3-5	Aerovox Corp Crowley Div 1 Central Ave W Orange NJ 4	Burnell & Co 45 Warburton Ave Yonkers NY 18-30-31-40
Transformers Inc	Aladdin Electronics	Cable Electric Products
Transformer Technicians Inc	100 Blanton Ave Nashville 10 Tenn 3-16-18-25-33	234 Daboll St Providence 7 RI 3-15-38 Caddell-Burns Mfg Co
2608 N Cicero Ave Chicago 39 Ill 1-2-3-4-5-6 Transonic Inc	Alcar Instruments Inc	40 E 2 St 3-4-7-8-10-16-18-19-23-24
808 16 St Bakersfield Calif 1-2-3-4-5-6	17 Industrial Ave Little Ferry NJ 5 Alden Products Co	Mineola NY 25-26-28-38-39-40-41 Calbest Electronics Co
Triad Transformer Corp	123A N Main St Brockton Mass 1-30	4801 Exposition Blvd
4055 Redwood Ave Venice Calif 1-2-3-4-5-6 United Transformer Corp Pacific Div	Allied Allegri Co 141 River Rd Nutley 10 NJ 3-23	Los Angeles 16 Calif 3-7-25-26-28-38-39-41 Calif Magnetic Control Corp
4008 W Jefferson Blvd	Allied Control Co	11922 Valerio St
Los Angeles 16 Calif 1-2-3-4-5 Utrad Corp	2 East End Ave New York 21 NY 19-24-28	N Hollywood Calif 1-2-18-27-28-30-32-33 Cambridge Thermionic Corp
305 N Briant St Huntington Ind 1-2-3-4-5 Vanguard Electronics Co	Alto Scientific Co	445 Concord Ave 1-3-4-7-8-15-16
3384 Motor Ave Los Angeles 34 Calif 7-8	855 Commercial St Palo Alto Calif 3-40 American Coil Inc	Cambridge 38 Mass 23-25-26-40-41 Carad Corp
Varo Mfg Co	21-28 45 Rd Long Island City 1 NY 41	2850 Bay Rd Redwood City Calif 30
Virginia Electronics Co	American Electric Fusion Corp 2600 Diversey Ave Chicago 47 Ill 33	Carnf Co Box 554 Brookhaven Miss 30
River Rd & B & O R R Washington 16 DC 1-2-3-4-5-6-7-8	American Lava Corp Sub Minn Mining &	CELCO Constantine Eng'g Labs Co
Vokar Corp	Mfg Cherokee Blvd & Mfrs Rd Chattanooga 5 Tenn 1-2-4	P O Box 555 Mahwah NJ 11-12-13-15-18-27-30-31-40-41
7300 Huron River Dr Dexter Mich 7 Waters Mfg Inc	American Machine & Foundry Co	Central Coil Co 1-2-3-7-8-16-18-19-21
Boston Post Rd Wayland Mass 1-2	Defense Products Group 1101 N Royal St Alexandria Va 5	1720 N Luett St 23-24-25-26-27-28-30-32 Indianapolis 22 Ind 33-34-35-36-38-39-40-41
Western Coil Products Co 969 Commercial St Palo Alto Calif 7-8	American Molded Products Co	Central Transformer Co
Wheeler Insulated Wire Co	2727 W Chicago Ave Chicago 22 Ill 1-2-4 American Rectifier Corp	910 W Jackson Blvd Chicago 7 Ill 18-27-33
150 E Aurora St Waterbury 20 Conn 1-2-3-5 Wilco Corp	95 Lafayette St New York 13 NY 33	Century Coil Corp
546 Drover St Indianapolis 21 Ind 7	American Research & Mfg Corp 920 Halpine Ave Rockville Md 18-30	1534 N Clybourn Ave Chicago 10 Ill 3-33 CG Electronics Corp
Wilmar Mfg Co 1110 Truman Rd Kansas City Mo 3-7-8	AMI Inc	305 Dallas St N E Albuquerque New Mex 23
Wyeth Eng'g Inc	1500 Union Ave Grand Rapids 2 Mich 8 Anchor Plastics Co	CGS Laboratories Inc 391 Ludlow St Stamford Conn 18-27-30
9911 Walden Pkwy Chicago 43 Ill 3	36-36 36 St Long Island City 6 NY 4 Anderson Controls Inc	Chicago Standard Transformer Corp
17 COUC	2777 Manheim Rd	3501 W Addison St Chicago 31 Ill 11-13-30-37-38-39
17—COILS	Des Plaines Ill 3-14-15-19-22-24-28 Andrew California Corp	Chicago Telephone of Calif
Bobbins, coil winding 1	941 E Maryland Ave Claremont Calif 7	105 Pasadena Ave S Pasadena Calif 1-15-17-24-28-33
Bobbins, transformer winding. 2	A P W Co 72 W Main St	Cinema-Television Ltd Worsley Bridge Rd
Coil assemblies 3	Rockaway NJ 3-8-17-19-21-24-28-30-33	Lower Sydenham London S E 26 England 37
Coil forms	Arco Transformer & Electric Corp 1602 S Hanna St 8-10-12-15-17-18-19-21-23	Cleveland Container Co 6201 Barberton Ave Cleveland 2 Ohio 4
Coil winding machines, torodial 6	Ft Wayne 5 Ind 24-27-28-29-33-34-35-36	Cleveland Instrument Co
Coils, antenna 7	Arnold Magnetics Corp	735 Carnegie Ave Cleveland 15 Ohio 32 Cleveland Metal Specialties Co
Coils, audio crossover 8	4615 W Jefferson Blvd 18-23-27-	1783 E 21 St Cleveland 14 Ohio 23
Coils, color purity 9	Los Angeles 16 Calif 30-31-33-49 Artisan Electronics Corp	Clippard Instrument Lab 7374 Colerain Rd 7-9-11-16-17-25-26
Coils, crossover	171 Ridgedale Ave Morristown NJ 24-28	Cincinnati 24 Ohio 34-35-36-37-38-39-41
Coils, deflection yokes 11 Coils, field 12	Artted Co 367 Worthington St	Coil Company of America 207 Washington St
Coils, flyback	Springfield 3 Mass 3-7-16-25-28-30-38-39-40-41	Northvale NJ 18-27-28-30-31-33
Coils, heating	Associated American Trading Div 750 St Ann's Ave New York 56 NY 5-6	Coileraft Inc 3-7-8-10-16-18-19-21-23 Cary Ill 24-25-28-30-33-38-39-40-41
Coils, high temperature 15	Associated Eng'g & Mfg Corp	Coil Eng'g & Mfg Co
Colls, IF 16	210 Stonehouse Rd Glen Ridge NJ 5 Associated Production Co	Roanoke Ind 12-83 Coil Winders Inc 3-4-7-8-9-10-11-12-14-15-16
Coils, ignition	162 N Clinton St Chicago 6 Ill 5-6	New York Ave 17-18-19-21-22-23-24-25-26
Coils, inductor	Atlas Eng'g Co 176 Blue Hill Ave	Westbury LI NY 27-28-29-30-31-32-33-40 Coil Winding Equipment Co
Coils, metallized glass 20	Roxbury 19 Mass 9-24-27-28-29-30-31-32-33 Atlas Resistor Co	19 Maxwell Ave Oyster Bay NY 5 Colber Corp
Coils, pickup	1128 Madison St Chester Pa 19	26 Buffington St Irvington 11 NJ 4
Coils, PM focusing 22	Automatic Coil Co 3-7-8-9-10-13-15-16-18 415 Bedford Ave 21-23-24-25-26-30-31	Colman Tool & Machine Co 1017 N E 3 Ave Amarillo Texas 3-7
Coils, printed circuit 23 Coils, relay		1011 11 2 0 1110 Himarino Texas 0-1
Cons, reidy	Brooklyn 11 NY 32-33-38-39-40-41	Comar Electric Co
Coils R-F receiving 25	Automatic Switch Co	3349 Addison St Chicago 18 Ill 24
Coils, R-F receiving 25	Automatic Switch Co Hanover Rd Florham Park NJ 28 Avion Div ACF Industries Inc	3349 Addison St Chicago 18 Ill 24 Communication Accessories Co 110 St & 71 Hwy
Coils, R-F receiving 25 Coils, R-F transmitting 26 Coils, saturable reactor 27	Automatic Switch Co Hanover Rd Florham Park NJ 28	3349 Addison St Chicago 18 III 24 Communication Accessories Co 110 St & 71 Hwy Hickman Mills Mo 18-27-30
Coils, R-F receiving	Automatic Switch Co Hanover Rd Florham Park NJ Avion Div ACF Industries Inc 11 Park Pl Paramus NJ 3-30-31-38 Avionics Ltd P O Box 200	3349 Addison St Chicago 18 III 24 Communication Accessories Co 110 St & 71 Hwy Hickman Mills Mo Conn Telephone & Electric Corp 70 Brittania St Meriden Conn 3-18-19
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Coils, R-F receiving	Automatic Switch Co Hanover Rd Florham Park NJ 28 Avion Div ACF Industries Inc 11 Park Pl Paramus NJ 3-30-31-38 Avionics Ltd P O Box 200 Niagara-on-the-Lake Ontario Canada 23 Ballastran Corp 1701 N Calhoun St Ft Wayne Ind 18-27-30-33	3349 Addison St Chicago 18 III Communication Accessories Co 110 St & 71 Hwy Hickman Mills Mo Conn Telephone & Electric Corp 70 Brittania St Meriden Conn Consolidated Productions Inc Broward Int'l Airport Ft Lauderdale Fla 3-11-13
Coils, R-F receiving	Automatic Switch Co Hanover Rd Florham Park NJ 28 Avion Div ACF Industries Inc 11 Park Pl Paramus NJ 3-30-31-38 Avionics Ltd P O Box 200 Niagara-on-the-Lake Ontario Canada 23 Ballastran Corp 1701 N Calhoun St Ft Wayne Ind 18-27-30-33 Barker & Williamson Inc Canal & Beaver Sts	3349 Addison St Chicago 18 III  Communication Accessories Co 110 St & 71 Hwy Hickman Mills Mo Conn Telephone & Electric Corp 70 Brittania St Meriden Conn Consolidated Productions Inc Broward Int'l Airport Ft Lauderdale Fla Continental Electronics Ltd 302 Oakland St Brooklyn 22 NY 3
Coils, R-F receiving 25 Coils, R-F transmitting 26 Coils, saturable reactor 27 Coils, solenoid 28 Coils, speaker 29 Coils, toroidal 30 Coils, toroidal variable 31 Coils, transducer 32 Coils, transformer 33	Automatic Switch Co Hanover Rd Florham Park NJ 28 Avion Div ACF Industries Inc 11 Park Pl Paramus NJ 3-30-31-38 Avionics Ltd P O Box 200 Niagara-on-the-Lake Ontario Canada 23 Ballastran Corp 1701 N Calhoun St Ft Wayne Ind 18-27-30-33 Barker & Williamson Inc Canal & Beaver Sts Bristol Pa 3-7-8-10-16-18-25-26-28-30-31	3349 Addison St Chicago 18 III Communication Accessories Co 110 St & 71 Hwy Hickman Mills Mo Conn Telephone & Electric Corp 70 Brittania St Meriden Conn Consolidated Productions Inc Broward Int'l Airport Ft Lauderdale Fla Continental Electronics Ltd 302 Oakland St Brooklyn 22 NY Continental X-Ray Corp
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Coils, R-F receiving	Automatic Switch Co Hanover Rd Florham Park NJ 28 Avion Div ACF Industries Inc 11 Park Pl Paramus NJ 3-30-31-38 Avionics Ltd P O Box 200 Niagara-on-the-Lake Ontario Canada 23 Ballastran Corp 1701 N Calhoun St Ft Wayne Ind 18-27-30-33 Barker & Williamson Inc Canal & Beaver Sts Bristol Pa 3-7-8-10-16-18-25-26-28-30-31 Barwood Electronics Inc 921 E Broadway Glendale 5 Calif 18-27-28-33 Basler Electric Co	3349 Addison St Chicago 18 III 24 Communication Accessories Co 110 St & 71 Hwy Hickman Mills Mo 18-27-30 Conn Telephone & Electric Corp 70 Brittania St Meriden Conn 3-18-19 Consolidated Productions Inc Broward Int'l Airport Ft Lauderdale Fla 3-11-13 Continental Electronics Ltd 302 Oakland St Brooklyn 22 NY 3 Continental X-Ray Corp 1536 N Clybourn Ave Chicago 10 III 3-33 Corning Glass Works Corning NY 4-15-16-18-20-23-25
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Coils, R-F receiving 25 Coils, R-F transmitting 26 Coils, saturable reactor 27 Coils, solenoid 28 Coils, speaker 29 Coils, toroidal 30 Coils, toroidal 31 Coils, toroidal variable 31 Coils, transformer 32 Coils, transformer 33 Coils, TV centering 34 Coils, TV feld 36 Coils, TV field 36 Coils, TV field 37 Coils, TV field 38 Coils, TV width 39	Automatic Switch Co Hanover Rd Florham Park NJ 28 Avion Div ACF Industries Inc 11 Park Pl Paramus NJ 3-30-31-38 Avionics Ltd P O Box 200 Niagara-on-the-Lake Ontario Canada 23 Ballastran Corp 1701 N Calhoun St Ft Wayne Ind 18-27-30-33 Barker & Williamson Inc Canal & Beaver Sts Bristol Pa 3-7-8-10-16-18-25-26-28-30-31 Barwood Electronics Inc 921 E Broadway Glendale 5 Calif 18-27-28-33 Basler Electric Co 601 5 St Highland Ill 18-27-30-33 Bassett Inc Rex 1314 N E 17 Ct Ft Lauderdale Fla 3-7 Beckman/Berkeley Div Beckman Instruments Inc 2200 Wright Ave Richmond 3 Calif 27	3349 Addison St Chicago 18 III  Communication Accessories Co 110 St & 71 Hwy Hickman Mills Mo Conn Telephone & Electric Corp 70 Brittania St Meriden Conn Consolidated Productions Inc Broward Int'l Airport Ft Lauderdale Fla Continental Electronics Ltd 302 Oakland St Brooklyn 22 NY Continental X-Ray Corp 1536 N Clybourn Ave Chicago 10 III 3-33 Corning Glass Works Corning NY 4-15-16-18-20-23-25 Cosa Corp 405 Lexington Ave New York 17 NY 5-6 Cossor (Canada) Ltd 301 Windsor St Halifax Nova Scotia Canada
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Coils, R-F receiving       25         Coils, R-F transmitting       26         Coils, saturable reactor       27         Coils, solenoid       28         Coils, speaker       29         Coils, toroidal       30         Coils, toroidal variable       31         Coils, transducer       32         Coils, transformer       33         Coils, TV centering       34         Coils, TV convergence       35         Coils, TV field       36         Coils, TV focusing       37         Coils, TV linearity       38         Coils, TV width       39         Coils, variable       40         Coils, video peaking       41	Automatic Switch Co Hanover Rd Florham Park NJ 28 Avion Div ACF Industries Inc 11 Park Pl Paramus NJ 3-30-31-38 Avionics Ltd P O Box 200 Niagara-on-the-Lake Ontario Canada 23 Ballastran Corp 1701 N Calhoun St Ft Wayne Ind 18-27-30-33 Barker & Williamson Inc Canal & Beaver Sts Bristol Pa 3-7-8-10-16-18-25-26-28-30-31 Barwood Electronics Inc 921 E Broadway Glendale 5 Calif 18-27-28-33 Basler Electric Co 601 5 St Highland Ill 18-27-30-33 Bassett Inc Rex 1314 N E 17 Ct Ft Lauderdale Fla 3-7 Beckman/Berkeley Div Beckman Instruments Inc 2200 Wright Ave Richmond 3 Calif 27 Better Coil & Transformer Corp Goodland Ind Bittermann Electric Co Barlow St Canaan Conn 27-28-30-31-33	3349 Addison St Chicago 18 III  Communication Accessories Co 110 St & 71 Hwy Hickman Mills Mo Conn Telephone & Electric Corp 70 Brittania St Meriden Conn Consolidated Productions Inc Broward Int'l Airport Ft Lauderdale Fla Continental Electronics Ltd 302 Oakland St Brooklyn 22 NY Continental X-Ray Corp 1536 N Clybourn Ave Chicago 10 III 3-38 Corning Glass Works Corning NY Corning NY 4-15-16-18-20-23-25 Cosa Corp 405 Lexington Ave New York 17 NY 5-6 Cossor (Canada) Ltd 301 Windsor St Halifax Nova Scotia Canada 11 Coto-Coil Co 65 Pavilion Ave Providence 5 RI 3-8-15-19-24-28-30-32-33 Crittenden Transformer Works 1220 Nadeau St Los Angeles 1 Calif 18-33
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Coils, R-F receiving 25 Coils, R-F transmitting 26 Coils, saturable reactor 27 Coils, solenoid 28 Coils, speaker 29 Coils, toroidal 30 Coils, toroidal 31 Coils, toroidal 31 Coils, transducer 32 Coils, transformer 33 Coils, TV centering 34 Coils, TV convergence 35 Coils, TV convergence 35 Coils, TV field 36 Coils, TV field 36 Coils, TV field 37 Coils, TV field 38 Coils, TV linearity 38 Coils, TV width 39 Coils, variable 40 Coils, variable 40 Coils, video peaking 41  Accurate Paper Tube Co 805 N Peoria St Chicago 22 III 4 Ace Coil & Electronics Co 916 Lincoln Hwy 3-7-15-16-21-23 Metuchen NJ 25-38-39-40-41	Automatic Switch Co Hanover Rd Florham Park NJ  Avion Div ACF Industries Inc  11 Park Pl Paramus NJ  3-30-31-38  Avionics Ltd  P O Box 200  Niagara-on-the-Lake Ontario Canada  23  Ballastran Corp  1701 N Calhoun St Ft Wayne Ind 18-27-30-33  Barker & Williamson Inc  Canal & Beaver Sts  Bristol Pa  3-7-8-10-16-18-25-26-28-30-31  Barwood Electronics Inc  921 E Broadway Glendale 5 Calif 18-27-28-33  Basler Electric Co  601 5 St Highland Ill  18-27-30-33  Bassett Inc Rex  1314 N E 17 Ct Ft Lauderdale Fla  3-7  Beckman/Berkeley Div Beckman Instruments  Inc 2200 Wright Ave Richmond 3 Calif  27  Better Coil & Transformer Corp  Goodland Ind  3  Bittermann Electric Co  Barlow St  Canaan Conn  Blackburn Electronic Corp  55 W 7 St Wyoming Pa  11-25-30-37  Boesch Mfg Co  45 River St Danbury Conn  5-6	3349 Addison St Chicago 18 III 24 Communication Accessories Co 110 St & 71 Hwy Hickman Mills Mo 18-27-30 Conn Telephone & Electric Corp 70 Brittania St Meriden Conn 3-18-19 Consolidated Productions Inc Broward Int'l Airport Ft Lauderdale Fla 3-11-13 Continental Electronics Ltd 302 Oakland St Brooklyn 22 NY 3 Continental X-Ray Corp 1536 N Clybourn Ave Chicago 10 III 3-38 Corning Glass Works Corning NY 4-15-16-18-20-23-25 Cosa Corp 405 Lexington Ave New York 17 NY 5-6 Cossor (Canada) Ltd 301 Windsor St Halifax Nova Scotia Canada 11 Coto-Coil Co 65 Pavilion Ave Providence 5 RI 3-8-15-19-24-28-30-32-33 Crittenden Transformer Works 1220 Nadeau St Los Angeles 1 Calif 18-33 Crown Industrial Products Co 713 Amsterdam Woodstock III 5 Cycle Transformer Corp 356 Glenwood Ave
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Coils, R-F receiving	Automatic Switch Co Hanover Rd Florham Park NJ  Avion Div ACF Industries Inc  11 Park Pl Paramus NJ  3-30-31-38  Avionics Ltd  P O Box 200  Niagara-on-the-Lake Ontario Canada  23  Ballastran Corp  1701 N Calhoun St Ft Wayne Ind 18-27-30-33  Barker & Williamson Inc  Canal & Beaver Sts  Bristol Pa  3-7-8-10-16-18-25-26-28-30-31  Barwood Electronics Inc  921 E Broadway Glendale 5 Calif 18-27-28-33  Basler Electric Co  601 5 St Highland Ill  18-27-30-33  Bassett Inc Rex  1314 N E 17 Ct Ft Lauderdale Fla  3-7  Beckman/Berkeley Div Beckman Instruments  Inc 2200 Wright Ave Richmond 3 Calif  27  Better Coil & Transformer Corp  Goodland Ind  Bittermann Electric Co  Barlow St  Canaan Conn  Blackburn Electronic Corp  55 W 7 St Wyoming Pa  11-25-30-37  Boesch Mfg Co  45 River St Danbury Conn  Boonton Molding Co  326 Myrtle Ave Boonton NJ  1-2  Boonton Radio Corp	3349 Addison St Chicago 18 III 24 Communication Accessories Co 110 St & 71 Hwy Hickman Mills Mo 18-27-30 Conn Telephone & Electric Corp 70 Brittania St Meriden Conn 3-18-19 Consolidated Productions Inc Broward Int'l Airport Ft Lauderdale Fla 3-11-13 Continental Electronics Ltd 302 Oakland St Brooklyn 22 NY 3 Continental X-Ray Corp 1536 N Clybourn Ave Chicago 10 III 3-38 Corning Glass Works Corning Glass Works Corning NY 4-15-16-18-20-23-25 Cosa Corp 405 Lexington Ave New York 17 NY 5-6 Cossor (Canada) Ltd 301 Windsor St Halifax Nova Scotia Canada 11 Coto-Coil Co 65 Pavilion Ave Providence 5 RI 3-8-15-19-24-28-30-32-33 Crittenden Transformer Works 1220 Nadeau St Los Angeles 1 Calif 18-33 Crown Industrial Products Co 713 Amsterdam Woodstock III 5 Cycle Transformer Corp 356 Glenwood Ave E Orange 11 NJ 8-19-27-28 Dallons Labs 5066 Santa Monica Blvd
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Delta Coils Inc 1128 Madison Ave	First Electronics Corp 117 Blue Hill Ave Boston 19 Mass 3-18-24-28	Insuline Corp of America 186 Granite St Manchester NH 4-25
Paterson 3 NJ 7-16-18-23-25-28-38-39-40	Fisher Eng'g Inc P O Box 327 3-15-18-19	Islip Transformer & Metal Co Beech St Islip NY 7-16-25-26-33
Delta Radio Co 115 Worth St	Huntington Ind 24-27-28-30-33	Isolantite Mfg Corp
New York 13 NY 3-7-16-18-25-26-33 Deutschmann Corp Tobe	Five Star Co W Main St	Warren Ave Stirling NJ 1 Jackson Electronics Inc
Norwood Mass 30 DeWitt Development Co	Plantsville Conn 3-15-17-18-19-24-28 Forbes & Wagner Inc	23 Woodcrest Rd West Chester Pa 3-7-23-25-26-29-40
3008 W 127 St	343 Central Ave 3-5-7-11-13-15-16-18	Jeffers Electronics Div Speer
Blue Island Ill 3-18-21-24-28 Diamond Coils Inc	Silver Creek NY 25-28-35-38-39-40 Franklin Fibre-Lamitex Corp	Carbon Co Hoover Ave DuBois Pa 25
540 39 St	Wilmington Del 4 Frederick Tool & Eng'g Corp	Johnson Aircraft Eng'g Co M J Morristown Airport Box 10
Union City NJ 3-7-16-18-19-23-38-39-40-41 Diamonite Products Mfg Co	414 Pine Ave Frederick Md 7	Morristown NJ 3-33
217 4 St N E Canton 2 Ohio 4 Dietz Design & Mfg Co	Freed Transformer Co 1718-36 Weirfield St	Johnson Co E F Waseca Minn 3-7-18-26-40
Grandview 13 Mo 3-7-10-16-25-26-30-31-33-41	Brooklyn 27 NY 8-18-27-30-33 Fugle-Miller Labs Inc	Johnson Electronics Inc 3-7-8-9-10-15-16-18
Dittmore-Freimuth Corp 2517 E Norwich St Milwaukee 7 Wis 6-28	301 Central Ave \$-7-15-16-18-25-26-27	521 Elwell St 19-21-23-24-25-27-28 Orlando Fla 30-33-38-39-40-41
Dollin Corp 636 S 21 St Irvington 11 NJ 1-2	Clark NJ 30-37-38-39-40-41 Garde Mfg Co	Kahle Eng'g Co 1307 7 St N Bergen NJ 5
Dormeyer Industries	588 Eddy St Providence 3 RI 1-2-4	Keystone Products Co 904 23 St Union City NJ 27-30-33
3418 Milwaukee Ave Chicago 41 Ill 3-12-15-17-19-24-27-28-33	Gates Radio Co 123 Hampshire St Quincy III 7-26	King Electric Equipment Co
D & R Ltd 402 E Gutierree St Santa Barbara Calif 30	Gavitt Wire & Cable Co Central St Brookfield Mass 7	9123 Inman Ave Cleveland 5 Ohio 19-24-28-33
Driver Co Wilbur B	General Bronze Corp 711 Stewart Ave Garden City NY 7	Kirchberger & Co M 83 W Forest Ave Englewood NJ 4-14
Du Mont Labs Inc Allen B	General Cement Mfg Co Div Textron Inc	Knopp Inc
760 Bloomfield Ave Clifton NJ 30 Dunlap Electronics	400 S Wyman St Rockford Ili 3 General Coil Products Corp	4224 Holden St Oakland 8 Calif 28 K-V Transformer Corp
764 9 St Des Moines 14 Iowa 23	43 Roselle St 3-7-10-16-18-23-25	20 E Franklin St Danbury Conn 27-33 Laboratory Equipment Corp
Dynamics Research Associates Div Universal Match Corp P O Box	Mineola NY 26-32-38-39-40-41  General Instrument Corp F W Sickles Div 3-11-13-30-33-34  Chicopee Mass 35-36-37-38-39-41	P O Box 151 St Joseph Mich 18
5841 Ferguson 21 Mo 17-30-31 Eastern Precision Resistor Corp	F W Sickles Div 3-11-13-30-33-34 Chicopee Mass 35-36-37-38-39-41	Laboratory For Electronics Inc 75 Pitts St Boston 14 Mass 25-26-30-41
675 Barbey St Brooklyn 7 NY 25-26	General Instrument Corp Automatic Mfg Div 65 Gouveurner St	La Cesa Eng'g Corp 5614 W Grand Ave Chicago 39 Ill 5
Eastman Pacific Co 2320 E 8 St	Newark 4 NJ 3-7-9-16-23-25	Langevin Mfg Corp
Los Angeles 21 Calif 3-4-18-40 Edko Electronics Eng'g Co	Geotronic Labs Inc 1314 Cedar Hill Ave Dallas 8 Texas 33	47-37 Austell Pl Long Island City 1 NY 15-27-30-33-41
202 Grand St	Gerlyn Eng'g Co 2151 N Damen Ave 7-16-23-24-25-26	Lee Chemical Corp Walter Seabury Ave & Butler Pl Bronx 61 NY 1-4
Eisler Eng'g Co	Chicago 47 Ill 28-30-38-39-40-41	Lee Electric Inc
750 S 13 St Newark 3 NJ 1-5 Electran Mfg Co	Glaser-Steers Corp 20 Main St	566 52 St W New York NJ 19-28-33 Leonard Electric Froducts Co 3-7-8-9-10-11
1901 Clybourn Ave Chicago 14 Ill 19	Belleville 9 NJ 3-9-19-22-34-36-37 Globe Electrical Mfg Co	67 34 St 12-13-16-22-23-24-25-26-29-30 Brooklyn 32 NY 31-33-34-35-36-37-38-39-40-41
Electrend Products Corp Box 110 St Joseph Mich 7	1729 W 134 St Gardena Calif 24	Lindberg Eng'g Co
Electric Coil Co 4911 S Marshfield Ave	Good-All Electric Mfg Co Good-All Bldg Ogallala Nebr 28	Linlar Inc
Chicago 9 Ill 3-11-12-19-28	Goslin Electric & Mfg Co 2921 W Olive Ave	4101 San Fernando Rd Glendale 4 Calif 8-21 Litton Industries of Calif
Electrical Refractories Co E Clark St E Palestine Ohio 4	Burbank Calif 3-15-16-18-27-28-30-33	386 N Foothill Rd
Electrical Specialty Co 158 11 St San Francisco 3 Calif 1-2-4-5	Grand Ra-Tronics Inc 17360 Hayes Rd	Litton Industries of Md Inc
Electrical Windings Inc	Grand Haven Mich 28-29-32-33 Grand Transformers Inc	4910 Calvert Rd College Park Md Long Inc Thomas J
2015 N Kolmar Ave Chicago 39 Ill 1-2-19-24-28-33	Beechtree & Marion Sts	215 Stonehinge Lane Carle Place LI NY 4
Electro Assemblies Inc 4444 N Kedzie Ave	Grand Haven Mich 8-12-19-33 Gray Instrument Co	Lynmar Engineers Inc 1482 N Carlisle St Philadelphia 21 Pa 7-26
Chicago 25 Ill 3-4-16-18-25-26	200 E Church Lane Philadelphia 44 Pa 3 Gray & Kuhn	McDowell Electronics Inc 105 Forrest St Metuchen NJ
Electro Eng'g Works 401 Preda St	20 Railroad Ave	MagneTec Corp
San Leandro Calif 12-18-19-22-27-33 Electronic Assembly Co	Roslyn Heights NY 7-16-25-38-39-40-41 Grayhill Inc	11785 W Olympic Blvd W Los Angeles 64 Calif 19-28-32
5 Prescott St Roxbury 19 Mass 3-19	561 Hillgrove Ave LaGrange Ill 1-4 Gries Reproducer Corp	Magnetic Specialties Co 18 Scudder Ave Northport LI NY 30-32
Electronic Coil Co 2506 N Ontario St	125 Beechwood Ave New Rochelle NY 1-4	Magnetics Inc
Burbank Calif 3-7-15-16-17-25-28-40-41 Electronic Coil Engineers Inc	Guild Electronics Inc 388 Broadway New York 13 NY 26-40	Master Mobile Mounts Inc
5830 Main St Hollvdale Calif 15-18-21-24-28 Electronic Coils Inc	Hallett Mfg Co 1601 W Florence Inglewood Calif 17	1306 Bond St Los Angeles 15 Calif Mayfair Molded Products Corp
P O Box 3-7-12-18-19-21	Hallicrafters Co	3700 N Rose St Franklin Park III 1-2
1665 Springfield Mass 24-27-28-30-33 Electronic Designs Inc	4401 W 5 Ave Chicago 24 Ill 3-25-26 Halm Instrument Co	Merit Coil & Transformer Corp 4427 N Clark St 7-11-13-16-18-23-25
28 School St Yonkers NY 5	100 Glen Head Rd Glen Head NY 5 Hansen Electronics Co	Chicago 40 Ill 26-33-37-38-39-40-41 Micarta Fabricators Inc
Electronic Transformer Co 70 Washington St Brooklyn 1 NY 30-34	7117 Santa Monica Blvd	5324 N Ravenswood Ave Chicago 40 Ill 4-23 Mico Instrument Co
Electro-Voice Inc Cecil & Carroll Sts Buchanan Mich 8	Los Angeles 46 Calif 20-23 Harder Co Donald C	80 Trowbridge St Cambridge 38 Mass 6-30
El-Rad Mfg Co 3-7-8-10-12-13	3710 Midway Dr San Diego 10 Calif 6 Harvey-Wells Electronics Inc	Microtran Co 145 E Mineola Ave Valley Stream NY 40
Chicago 18 Ill 28-30-35-38-39-40-41	North St Southbridge Mass 25-26	Millen Mfg Co James
Emerson Plastics Corp Seabury Ave & Butler Pl	Hermetic Seal Transformer Co P O Box 277 Garland Texas 27-30-33	150 Exchange St Malden 48 Mass 3-16-18-25-26
Bronx 61 NY 1-2-4	Hetherington Inc 1200 Elmwood Ave Sharon Hill Pa 3-19-24-28	Miller Co J W 5917 S Main St 3-4-7-15-16-23-25-26-
Enflo Corp Rte 38A at Airport Circle	Hevi-Duty Electric Co	Los Angeles 3 Calif 33-38-39-40-41
Pennsauken 11 NJ 1-2 Epco Products Inc	4212 W Highland Blvd Milwaukee 1 Wis 14 Hillburn Electronic Products Co	Milwaukee Gas Specialty Co 730 N Jackson St Milwaukee 1 Wisc 17-28
2500 Atlantic Ave	55 Nassau Ave Brooklyn 22 NY 28	Minitron Inc 7643 Fay Ave La Jolla Calif 23
Brooklyn 7 NY 8-15-18-21-27-30-33 Erco Radio Labs Inc	Hindle Transformer Co Woods Church Rd Flemington NJ 19-27-33	Mitronics Inc
637 Stewart Ave Garden City NY 30 Essex Electronics Div NYT	Houlihan Co T J 2508 W Lawrence Ave 3-7-12-16-19-21-24-25	Modelectric Products Corp
Electronics Inc 7303 Atoll Ave 3-16-18-25	Chicago 25 Ill 26-28-29-30-38-39-40-41	Asbury Park NJ Modern Adhesives & Electronics Inc
N Hollywood Calif 26-30-38-39-40-41 Essex Electronics	Hydro Molding Co 100 Sharron Ave Plattsburgh NY 1-2-4	148 Greene St New York 12 NY 15-35
550 Springfield Ave 3-7-16-25-26-27-28 Berkeley Heights NJ 33-38-39-40-41	Illumitronic Eng'g Co 680 E Taylor Ave Sunnyvale Calif 3-7-18-26	Modern Industries Inc 2601 Colorado Ave 3-18-24-27-
Exact Eng'g & Mfg Inc	Induction Heating Corp	Santa Monica Calif 28-30-33 Mohawk Rusiness Machines Corp
P O Box 668 Oceanside Calif Ferranti Electric Inc	Inductor Eng'g Inc	944 Halsey St 8-10-13-24-27-28-
30 Rockefeller Plaza New York 20 NY 18	117 Schley Ave Lewes Del 18-30-33 Industrial Transformer Corp	Molding Corp of America
Filtron Co 10023 W Jefferson Blvd	Gouldsboro Pa 30	58 Weybosset St Providence 3 RI 1-4 Muter Co
Culver City Calif 3-18-30 Filtron Co	Industrial Winding Machinery Co 120 Wall St_New York 5 NY 5	1255 S Michigan Ave Chicago 5 Ill 16-25
131-15 Fowler Ave Flushing 55 NY 16-18-25-26-27-28-30-33	Insulation & Wires Inc 1534 Swinney Ave Ft Wayne Ind 5	Mystic Transformers Inc 63 Swanton St Winchester Mass 18-33

Mycalex Corp of America 125 Clifton Blvd Clifton NJ	4
National Aircraft Corp 3411 Tulare Ave	,
Burbank Calif 3-11-15-16-25-26-27-28-2	9-31-33
National Coil Co	
Sheridan Wyo 25-26-3	3-40-41
National Company Inc 61 Sherman St Malden 48 Mass 3-1	6_25_26
National Moldite Co 1410 Chestnut Ave Hillside 5 NJ Naybor Laboratories Inc E V	0-20-20
Naybor Laboratories Inc E V	4
2 Yennicock Ave	
Port Washington NY Newcomb Spring Corp	24-28
177 E Hawthorne Ave 34-35-36-3 Valley Stream NY	7-38-39
320 Main St New Rochelle NY	18
320 Main St New Rochelle NY New York Coil Co 40 2 Ave 3-8-15-16-17-18-19	-24-25-
Phoenixville Pa 26-28-3 New York Transformer Co	3-38-39
3 Ave Alpha NJ	15-30
Nichols Products Co 325 W Main St Moorestown NJ	4
Norden-Ketay Corp	
Commerce Rd Stamford Conn Norrich Plastics Corp	27
35 E 32 St New York 16 NY North Electric Co	1-2
553 S Market St Galion Ohio	3-24
North Hills Electric Co 402 Sagamore Ave 3-4-5-6-15-16	10.01
Mineola LI NY 23-25-2	
NYT Electronics Inc 2979 N Ontario St 3-7-8-15-16-17-18	93 94
Burbank Calif 25-26-27-28-30-33-37-3	8-39-41
Ohio Crankshaft Co Tocco Div 3800 Harvard Ave Cleveland 5 Ohio	18
Olympic Plastics Co	10
3471 S LaCienega Blvd Los Angeles 16 Calif	4
Ohmite Mfg Co	
3601 Howard St Skokie Ill Orange Products Inc	19
554 Mitchell St Orange NJ Ortho Filter Corp	1
196 Albion Ave Paterson 2 NJ	27-30
Osborne Electronic Corp 712 SE Hawthorne Blvd	
Postland 14 Oss 10 04 05 0	8-30-33
Osborne Transformer Corp 948 E Lafavette Ave Detroit 7 Mich	27-30
Osborne Transformer Corp 948 E Lafayette Ave Detroit 7 Mich Pacific Electricord Co 3217 Exposition Pl Los Angeles 18 Ca	21-30
4002 Fruit Valley Rd Vancouver Was	h 8
Palo Alto Eng'g Co 620 Page Mill Rd	
620 Page Mill Rd Palo Alto Calif Paramount Paper Tube Corp 614 S Lafavette St Fort Wayne 2 Ind	9-28-33
614 S Lafayette St Fort Wayne 2 Ind	4
16799 Schoenhorn St Senulveda Calif	30
Peerless Electrical Products	
1515 S Manchester Ave Anaheim Cali Peerless Products Industries	f 10
812 N Pulaski Rd Chicago 51 III	4
Penn-East Eng'g Corp Willow St Kutztown Pa Penn Fibre & Specialty Co	
Penn Fibre & Specialty Co 2020 E Westmoreland St	
Philadelphia 34 Pa	4
Penn Transformer Corp E Bishop St	
Ext. Bellefonte Po 11 12 0	1-38-39
Permoflux Products Co 4101 San Fernando Rd	
Glendale 4 Calif 8-21-24-28-29	-22-33
Permonite Mfg Co 444 Lake Shore Dr Chicago 11 III	4
Philmone Mc. C.	
Philmore Mfg Co	
113 University Pl New York 3 NV	7
113 University Pl New York 3 NY Photocircuits Corp 31 Sea Cliff Ave Glen Cove NY	7 23
113 University Pl New York 3 NY Photocircuits Corp 31 Sea Cliff Ave Glen Cove NY Pickering & Co 309 Woods Ave Oceanside NY	
113 University Pl New York 3 NY Photocircuits Corp 31 Sca Cliff Ave Glen Cove NY Pickering & Co 309 Woods Ave Oceanside NY Pittsburgh Coil Co	23 21-28
113 University Pl New York 3 NY Photocircuits Corp 31 Sca Cliff Ave Glen Cove NY Pickerinz & Co 309 Woods Ave Oceanside NY Pittsburgh Coil Co Box 700 Carnegie Pa 25	23 21-28
113 University Pl New York 3 NY Photocircuits Corp 31 Sea Cliff Ave Glen Cove NY Pickering & Co 309 Woods Ave Oceanside NY Pittsburgh Coil Co Box 700 Carnegie Pa Plastic Accessories Inc	23 21-28 -21-26- -29-33
113 University Pl New York 3 NY Photocircuits Corp 31 Sea Cliff Ave Glen Cove NY Pickerinz & Co 309 Woods Ave Oceanside NY Pittsburgh Coil Co Box 700 Carnegie Pa Plastic Accessories Inc 91 Mercer St New York 12 NY Plastic Mold & Eng'g Co	23 21-28 21-26-
113 University Pl New York 3 NY Photocircuits Corp 31 Sea Cliff Ave Glen Cove NY Pickering & Co 309 Woods Ave Oceanside NY Pittsburgh Coil Co Box 700 Carnegie Pa Plastic Accessories Inc 91 Mercer St New York 12 NY Plastic Mold & Eng'g Co 157 Clifford St Providence RI	23 21-28 -21-26- -29-33
113 University Pl New York 3 NY Photocircuits Corp 31 Sca Cliff Ave Glen Cove NY Pickerinx & Co 309 Woods Ave Oceanside NY Pittsburgh Coil Co Box 700 Carnegie Pa Plustic Accessories Inc 91 Mercer St New York 12 NY Plastic Mold & Eng'g Co 157 Clifford St Providence RI Polyphase Instrument Co E 4 St Bridgeport Pa	23 21-28 -21-26- -29-33
113 University Pl New York 3 NY Photocircuits Corp 31 Sca Cliff Ave Glen Cove NY Pickerinx & Co 309 Woods Ave Oceanside NY Pittsburgh Coil Co Box 700 Carnegie Pa Plastic Accessories Inc 91 Mercer St New York 12 NY Plastic Mold & Eng'g Co 157 Clifford St Providence RI Polyphase Instrument Co E 4 St Bridgeport Pa 18 Potter & Brumfield Inc 1200 E Breadway Princeton Ind	23 21-28 -21-26- -29-33 4 1-2
113 University Pl New York 3 NY Photocircuits Corp 31 Sca Cliff Ave Glen Cove NY Pickerinx & Co 309 Woods Ave Oceanside NY Pittsburgh Coil Co Box 700 Carnegie Pa Plastic Accessories Inc 91 Mercer St New York 12 NY Plastic Mold & Eng'g Co 157 Clifford St Providence RI Polyphase Instrument Co E 4 St Bridgeport Pa Potter & Brumfield Inc 1200 E Broadway Princeton Ind Power Transformer Co	23 21-28 21-26- -29-33 4 1-2 5-00-33
113 University Pl New York 3 NY Photocircuits Corp 31 Sea Cliff Ave Glen Cove NY Pickering & Co 309 Woods Ave Oceanside NY Pittsburgh Coil Co Box 700 Carnegie Pa Plastic Accessories Inc 91 Mercer St New York 12 NY Plastic Mold & Eng'g Co 157 Clifford St Providence RI Polyphase Instrument Co E 4 St Bridgeport Pa Potter & Brumfield Inc 1200 E Broadway Princeton Ind Power Transformer Co 91 Edison Pl Newark 5 NJ 15-18-19	23 21-28 21-26- -29-33 4 1-2 5-00-33
113 University Pl New York 3 NY Photocircuits Corp 31 Sca Cliff Ave Glen Cove NY Pickerinx & Co 309 Woods Ave Oceanside NY Pittsburgh Coil Co Box 700 Carnegie Pa Plastic Accessories Ine 91 Mercer St New York 12 NY Plastic Mold & Eng'g Co 157 Clifford St Providence RI Polyphase Instrument Co E 4 St Bridgeport Pa 18 Potter & Brumfield Inc 1200 E Broadway Princeton Ind Power Transformer Co 91 Edison Pl Newark 5 NJ 15-18-19 Precision Inc 730 N Lyndale Ave	23 21-28 21-26- -29-33 4 1-2 2-00-33 3
113 University Pl New York 3 NY Photocircuits Corp 31 Sca Cliff Ave Glen Cove NY Pickerinx & Co 309 Woods Ave Oceanside NY Pittsburgh Coil Co Box 700 Carnegie Pa Plastic Accessories Ine 91 Mercer St New York 12 NY Plastic Mold & Eng'g Co 157 Clifford St Providence RI Polyphase Instrument Co E 4 St Bridgeport Pa Potter & Brumfield Inc 1200 E Broadway Princeton Ind Power Transformer Co 91 Edison Pl Newark 5 NJ 15-18-19 Precision Inc 730 N Lyndale Ave Minneapolis 11 Minn 3-14-19	23 21-28 21-26- -29-33 4 1-2 2-00-33 3
113 University Pl New York 3 NY Photocircuits Corp 31 Sca Cliff Ave Glen Cove NY Pickering & Co 309 Woods Ave Oceanside NY Pittsburgh Coil Co Box 700 Carnegie Pa Plastic Accessories Inc 91 Mercer St New York 12 NY Plastic Mold & Eng'g Co 157 Clifford St Providence RI Polyphase Instrument Co E 4 St Bridgeport Pa Potter & Brumfield Inc 1200 E Broadway Princeton Ind Power Transformer Co 91 Edison Pl Newark 5 NJ 15-18-19 Precision Inc 730 N Lyndale Ave Minneapolis 11 Minn Precision Paper Tube Co 2035 W Charleston St Chicago 47 III	23 21-28 21-26- -29-33 4 1-2 3-00-33 3 3-27-33
113 University Pl New York 3 NY Photocircuits Corp 31 Sea Cliff Ave Glen Cove NY Pickerinz & Co 309 Woods Ave Oceanside NY Pittsburgh Coil Co Box 700 Carnegie Pa Plastic Accessories Inc 91 Mercer St New York 12 NY Plastic Mold & Eng'g Co 157 Clifford St Providence RI Polyphase Instrument Co E 4 St Bridgeport Pa Potter & Brumfield Inc 1200 E Broadway Princeton Ind Power Transformer Co 91 Edison Pl Newark 5 NJ 15-18-19 Precision Inc 730 N Lyndale Ave Minneapolis 11 Minn Precision Paper Tube Co 2035 W Charleston St Chicago 47 Ill Premax Products Div Chisholm-Ryder (	23 21-28 21-26- -29-33 4 1-2 3-00-33 3 3-27-33
113 University Pl New York 3 NY Photocircuits Corp 31 Sca Cliff Ave Glen Cove NY Pickerinz & Co 309 Woods Ave Oceanside NY Pittsburgh Coil Co Box 700 Carnegie Pa Plastic Accessories Inc 91 Mercer St New York 12 NY Plastic Mold & Eng'g Co 157 Clifford St Providence RI Polyphase Instrument Co E 4 St Bridgeport Pa Potter & Brumfield Inc 1200 E Broadway Princeton Ind Power Transformer Co 91 Edison Pl Newark 5 NJ 15-18-19 Precision Inc 730 N Lyndale Ave Minneapolis 11 Minn Precision Paper Tube Co 2035 W Charleston St Chicago 47 Ill Premax Products Div Chisholm-Ryder Co College & Highland Ave Niagara Falls NY	23 21-28 21-26- -29-33 4 1-2 3-00-33 3 3-27-33
113 University Pl New York 3 NY Photocircuits Corp 31 Sea Cliff Ave Glen Cove NY Pickerinx & Co 309 Woods Ave Oceanside NY Pittsburgh Coil Co Box 700 Carnegie Pa Plastic Accessories Ine 91 Mercer St New York 12 NY Plastic Mold & Eng'g Co 157 Clifford St Providence RI Polyphase Instrument Co E 4 St Bridgeport Pa 18 Potter & Brumfield Ine 1200 E Broadway Princeton Ind Power Transformer Co 91 Edison Pl Newark 5 NJ 15-18-19 Precision Inc 730 N Lyndale Ave Minneapolis 11 Minn 3-14-19 Precision Paper Tube Co 2025 W Charleston St Chicago 47 Ill Premax Products Div Chisholm-Ryder Co College & Highland Ave	23 21-28 21-26- -29-33 4 1-2 

Printloid Corp	
93 Mercer St New York 12 NY Pulse Eng'g Inc 2657 Spring St	4
Redwood City Calif 8- Pye Canada Ltd	-27-30-33
82 Northline Rd Toronto 16 Ontario Canada	11
Toronto 16 Ontario Canada Q L C Corp Flocktown Rd Long Valley NJ Quality Components Inc	-38-39-40
St Marys Pa Radio Corp of America	4
Camden 2 NJ Radio Industries Inc	11-13
5225 N Ravenswood Ave 3-7-9- Chicago 25 Ill 34-35-	-16-23-25 -38 <b>-39-4</b> 1
	18-25-26- -39-40-41
Randall Inc Douglas 6 Pawcatuck Ave 3-15- Westerly RI	19-24-28- 30-31-33
Ransom Research 323 W 7 San Pedro Calif	27
Ratigan Electronics Inc 3614 Maple Ave Los Angeles 11 Calif 16-18-24-	-25-26-33
Rayco Electronic Mfg Inc 11116 Cumpston St	
N Hollywood Calif Raypar Inc 7800 W Addison St 3-7-13-	6-18-30
Chicago 34 Ill 30-33-Raytheon Mfg Co	16-25-28- ·38-39-41
100 River St Waltham 54 Mass 11-16-18-	27-30-33
Redman Electronics Corp	16-18-21-
	30-32-33
Owosso Mich Reed & Reese Inc 717 N Lake Ave	11
Pasadena 6 Calif 3-24-27-	28-32-33
Rex Rheostat Co 3 Foxhurst Rd Baldwin LI NY Rixon Electronics Inc	6
2414 Reedie Dr Silver Spring Md Rogers Corp	3
Rogers Conn Rogers Electronic Corp	23
49 Bleecker St	13-38-39
8233 S Princeton Ave Chicago 20 III 1-2-3-	16-19-28
Romar Plastics Inc 1311 E Main St St Charles III Ross Mfg Co 7-8-9-10-11-1	4
Ross Mfg Co 7-8-9-10-11-1 2538 Peterson Ave 19-21-25-28-3 Chicago 45 Ill 35-36-38-	32-33-34-
Rowe Industries 1702 Wayne St Toledo 9 Ohio	3
Sag Harbor Industries Sag Harbor NY 3-14-15-18-19-	24-28-33
Sangamo Electric Co Springfield III	18
Saratoga Industries Congress & Ballston Aves Saratoga Springs NY	2 20
Schrack Electrical Sales Corp	3-30 18-19-24
Scientific Coil Co 5619 Broadway	
Chicago 40 III 3-13-16-25- Seismograph Service Corp	
6200 E 41 St Tulsa 1 Okla Sherwood Electronic Labs Inc 2802 W Cullom Ave Chicago 18 III	32 10
Sibley Co Bridge St Haddam Conn	23
Sigmadyne of Conn PO Box 869	,
Port Chester NY 8-18-27- Signal Transformer Co	28-30-33
Signal Transformer Co 902 Coney Island Ave Brooklyn 18 N Silicone Insulation Inc	Y 18-27
Seabury Ave & Butler Pl Bronx 61 NY Sinclair Mfg Co	1-2-4
PO Box 243 Chartley Mass Skysweeper Inc	4
	19-28-33
3612 W Jefferson Blvd Los Angeles 16 Calif SNC Mfg Co	1-2-4
PO Box 277 Oshkosh Wisc 12-17-19- Spaulding Fibre Co	24-28-33
310 Wheeler St Tonawanda NY	4
Specialties Inc Skunks Misery Rd Syosset LI NY Specific Electronics	6
570 W Woodbury Rd Altadena Calif	7-16-25
Speer Resistor Div Speer Carbon Co Bradford Pa	4
Spellman TV Co 3029 Webster Ave New York 67 NY	26-33
Sphere Co 25 Amity St Little Falls NJ	4

Spivey Inc James S 4908 Hampden Lane	Washington 14 DC
Stancil-Hoffman Corp	
921 N Highland Ave Standard Coil Products	: Co
2085 N Hawthorne . Melrose Park III Standard Winding Co.	Ave 3-7-9-11-13-16-25-26 28-35-38-39-4
44 Jonnes St	3-13-16-19-25-26-28-30
Newburgh NY Stanwyck Winding Co	38-39-40-43 3-7-9-16-18-21-23
137-151 Walsh Ave Newburgh NY Stevens Mfg Co Geo	24-25-26-18-30-32-33 34-35-38-39-40-4
6022 N Rogers Ave Stewart Warner Elect	Chicago 30 Ill 5-6
1300 N Kostner Ave	ronics Div
Chicago 51 Ill Stone Paper Tube Co	;
900 Franklin St NE Stupskoff Div Carborus	Washington 17 DC
Latrobe Pa Summit Coil Co	
4 Claremont Rd Bernardsville NJ	3-7-16-25-26 38-39-40-4
Superex Electronics Co 4 Radford Pl	
Yonkers NY	26-28-39-40-41
Superior Steatite & Co 91 W Forest Ave Er	ramic Corp
5016 N Austin Ave	3-7-8-9-10-12-15-16 18-19-21-23-24-25-26-28- 30-31-32-38-39-40-41
Chicago 30 Ill Syncor Products Co	30-31-32-38-39-40-41
30 Eastern Ave Mald Syntronic Instruments	
170 Industrial Rd Ad	
Taylor Fibre Co Norristown Pa	1-4
Techtron Electronics L 583 Gramatan Ave I	
Telechrome Mfg Corp 28 Ranick Dr Amity	ville LI NY 13
Tele-Coil Co 2733 Saunders St	3-11-16-25-26-
Camden 5 NJ Telectro Industries Cor	33-37-38-39-40-41
Telectro Industries Cor 35-18 37 St Long Isla Telectron Co Div Ellio Bldg #9 Broward Int	and City 1 NY
Bldg #9 Broward Int Ft Lauderdale Fla	t'l Airport
Tel-Rad Electronics Con	rp 3-7-8-9-11-13-16-19-
Tel-Rad Electronics Con 73-20 Trotting Cours Glendale LI 27 NY	30-31-35-36-38-39-41
Glendale LI 27 NY Teleradio Eng'g Corp Shannon & Barrett	7-9-11-12-13-15-16-18- Sts 19-22-23-24-25-26-28-
Wilkes-Barre Pa 2 Telex	9-34-35-36-37-38-39-40-41
1633 Eustis St St Pa Thermador Electronics	
Norris-Thermador Co 2000 S Camfield Ave	rp
Los Angeles 22 Calif Thermal Refractories C	15-18-27-30-33
4501 Dell Ave N Ber Thor Ceramics Inc	
225 Belleville Ave Bl. Torocoil Co	oomfield NJ 4
2615 Bristol Rd Colu Torwico Electronics Inc	mbus 21 Ohio 30
1090 Morris Ave Uni	
Trane Co Cameron & 2 St La	Crosse Wisc 14
Transformer Techniciar 2608 N Cicero Ave	
Chicago 39 Ill Transformers Inc	8-18-27-28-33
200 Stage Rd Vestal Transonic Inc	NY 18-27-30
808 16 St Rokersfield Culif	3-8-10-15-18-21-23-24- 27-28-30-31-33
Tresco Inc 3824 Terrace St Phila Triad Transformer Cor 4055 Redwood Ave	idelphia 28 Pa 33
Triad Transformer Cor	8-11-12-13-18-19-27-29-
Venice Calif	30-32-33-37-38-39
Tri-Dex Electronics PO Box 1207 Lindsa	ay Calif 3-7-18-19-21
Tur-bo Jet Products In 424 S San Gabriel B	e ivd 15-19-21-24-
San Gabriel Calif Ultradune Engly Labo	25-28-32-33
PO Box 3308 Albuqu United Aircraft Produc 1116 Bolander Ave D	erque New Mex 32
1116 Bolander Ave D	ayton 8 Ohio 28
United Control Corp 4540 Union Bay Pl S	Seattle 5 Wash 3
4540 Union Bay Pl 9 United Fabricators & E Myrtle & Water Sts	llectronics Stillwater Minn 1
United Transformer Co 4008 W Jefferson Bly	orp Pacific Div
Los Angeles 16 Cali United Transformer Co	18-27-28-30-33-37
150 Varick St	
New York 13 NY Universal Mfg Co 410 Hillside Ave Hill	15-18-30-31-33-40
Universal Winding Co	
P O Box 1605 Provid US Electronics Corp 278 Warren St	ence 1 RI 5 7-11-12-13-14-15-16-17-
278 Warren St Lyndhurst NJ	18-19-24-25-26-27-28-29- 30-33-36-37-38-39-40-41

US Instrument Corp	American Machine & Foundry Co	Control Corp
PO Box 33E Charlottesville Va 18-33	Defense Products Group	718 Central Ave NE
US Stoneware Co Alite Div Orville Ohio 4	1101 N Royal St Alexandria Va 1-2-8-10-18	Minneapolis 14 Minn Corbin Corp
Valandy Electronics Corp	Alexandria Va 1-2-8-10-18 American Mica Insulation Co	5419 56 Pl 1-2-0-1V-11-
61-35 166 St Flushing 68 NY 7	235 Parker Ave Manasquan NJ 5	Riverdale Md
Valor Electronic Components Co	American Mica Radio Corp	Cossor (Canada) Ltd 301 Windsor St
5808 Marilyn Ave Culver City Calif 18 Vanguard Electronics Co	235 Parker Ave Manasquan NJ 5-8-15 American Microwave Corp	Halifax Nova Scotia Canada 1-2-4-5
3384 Motor Ave 3-7-16-18-25-	11754 Vose St	Chaig Systems Inc
Los Angeles 34 Calif 26-30-40-41	N Hollywood Calif 10-11-18-21	90 Hollen St Daniels
Vari-L Co	Applied Electronics Co	Crosby Labs Inc Box 233 Robbins Lane
432 Fairfield Ave Stamford Conn 18-30 Virginia Electronics Co	213 E Grand Ave S San Francisco Calif 4-5-9-22	Z-0-11-10
River Rd & B & O R R	Applied Research Inc	Dayton Aviation Radio & Equipment Corp
Washington 16 DC 3-7-8-16-25-26-30-33	163-07 Depot Rd Flushing 58 NY 11	RR 3 Troy Ohio
Vitro Corp of America	Applied Science Corp of Princeton PO Box #44 Princeton NJ 18	Deltime Inc 608 Fayette Ave Mamaroneck NY 10-11-16
261 Madison Ave New York 16 NY 30 Vokar Corp	PO Box #44 Princeton NJ Arma Div American Bosch Arma Corp	DaMossoy-Ronardi Corn
7300 Huron River Dr Dexter Mich 3-7-16-33	Garden City NY	780 S Arroyo Pkwy Pasadena Cam
Volta Mfg Co	Auth Electric Co	DeWald Radio Mfg Corp 35-15 37 Ave Long Island City 1 NY 8
2154 N Halsted St Chicago 14 Ill 3-16-25-28-38-39-41	34-20 45 St Long Island City 1 NY 8-9-15-19	Triang Antonno & Wicrowave Curp
Waco Inc	Long Island City 1 NY 8-9-15-19 Automatic Electric Co	7 North Ave Wakeneld Mass
2032 Broadway	1033 W Van Buren St 3-5-8-10-13-	Data Acquetion   Electronic Lague
Santa Monica Calif 3-15-18-19-24-27-28-33	Chicago 7 Ill 15-19-22	431 Broome St New York 13 NY 8-12-15 D & R Ltd
Waldom Electronics Inc 4625 W 53 St Chicago 32 Ill 12-29	Autron Eng'g Inc 1254 W 6 St Los Angeles 17 Calif 6	402 E Gutierree St
Walton Tool & Die Co	Avia Products Co	Santa Barbara Calif
2707 Empire Ave Burbank Calif 4	7266 Beverly Blvd	DuKane Corp 4-5-8-15-19
Warsaw Coil Co Segal St 3-7-16-18-19-23-24-25- Warsaw Ind 28-30-38-39-40-41	Los Angeles 36 Calif 19-22	St Charles III Du Mont Labs Inc Allen B
Warsaw Ind 28-30-38-39-40-41	Avion Div ACF Industries Inc 11 Park Pl Paramus NJ 1	ren Ulcomfield Ave Ulli Ull IV
waters mig inc	Avionics Ltd	Electrical Communications Inc. 10 11 12-13-14-
Roston Post Rd Wayland Mass 16-30	PO Box 200	765 Clementina St 15-16-18-19-20-21-22
Western Coil Products Co 969 Commercial St	Niagara-on-the-Lake Ontario Canada 2-8	
Palo Alto Calif 7-8-16-25-26	Barker & Williamson Inc Canal & Beaver Sts 4-5-11-12-16-	
Wheaton Co T C	Bristol Pa 17-18-20-22	1206 Cherry S. Toledon Equipment Co Electronic Communication Equipment Co 1249 W Loyola Ave Chicago 26 Ill 8-13-15
Millville NJ 20	Bassett Inc Rex	1249 W Loyola Ave Chicago 11
Wheeler Insulated Wire Co 150 E Aurora St	1314 NE 17 Ct Ft Lauderdale Fla 9-19 Bell Aircraft Corp	Electronic Eng's Co 362 W Bowery St Akron 7 Ohio 4-3
Waterbury 20 Conn 19-27-28-30-32-33	PO Box 1 1-2-3-4-5-8-10-	Electronics Development Co
Whitewater Electronics Inc 5-7-9-12-15-16-	Buffalo 5 NY 12-14-16-17-18	3743 N Cahuenga Bivd
136 Main St 18-19-23-25-26-28-32-	Bell & Gossett Co	N Hollywood Calif Electronic Secretary Industries Inc
Whitewater Wisc 33-35-38-39-40-41 Wilco Corp	8200 Austin Ave 1-3-4-5- Morton Grove III 9-15-18-20	ens S 5 St Milwaukee 4 Wis
546 Drover St Indianapolis 21 Ind 23-25-41	Bell Sound Systems Inc	Floatronic Specialty CO
Wilmar Mfg Co	555 Marion Rd Columbus 7 Ohio 5-8	5191 San Fernando Ru
1110 Truman Rd Kansas City Mo 3-16-25-26	Bendix Aviation Corp Pacific Div 11600 Sherman Way N Hollywood Calif 18	Los Angeles 39 Calif Electrosolids Corp
Wincharger Corp E	Bendix Aviation Corp Bendix Radio Div	7436 Varna Ave N Hollywood Cam
7 & Division St Sioux City 2 Iowa 12	East Joppa Rd 1-2-4-12-	Electro Sound Corp
Wright Zimmerman Inc	Towson 4 Md 13-14-22	115 Halleck St
New Brighton St Paul 12 Minn 13-16-25-29 Wyeth Eng'g Inc	Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich 1-2-13-22	Boston 15 Mass 3-4-5-7-8-9-12-14-15-15 Elm Labs
	1104 Planer Didg Detroit a mien 1 = 1	Elm Labor Ave
9911 Walden Pkwy	Bliss Electronic Corp	10 Washington Ave
9911 Walden Pkwy Chicago 43 Ill 30	Bliss Electronic Corp Box 366 Sussex NJ 12-19	10 Washington Ave Hastings-on-Hudson NY
	Box 366 Sussex NJ 12-19 Boehme Inc H O	Hastings-on-Hudson Pi El-Tronics Inc
Chicago 43 Ill 30	Box 366 Sussex NJ 12-19 Boehme Inc H O 915 Broadway New York 10 NY 20	Hastings-on-Hudson N1 El-Tronics Inc Penn Ave Mayfield Pa Penn Ave Mayfield Pa Penn Ave Mayfield Pa
Chicago 43 III 30	Box 366 Sussex NJ 12-19 Boehme Inc H O 915 Broadway New York 10 NY 20 Bogen Co David	Hastings-on-Hudson N1 El-Tronics Inc Penn Ave Mayfield Pa Endeco Eng'g Development Co of Los Angeles 922 E Anabeim St
Chicago 43 Ill 30	Box 366 Sussex NJ 12-19 Boehme Inc H O 915 Broadway New York 10 NY 20 Bogen Co David PO Box 500 Paramus NJ 5-8-12-15-19 Bristol Co	Hastings-on-Hudson N1 El-Tronics Inc Penn Ave Mayfield Pa Endeco Eng'g Development Co of Los Angeles 922 E Anaheim St Wilmington Calif
Chicago 43 III 30  18—COMMUNICATION SYSTEMS	Box 366 Sussex NJ 12-19 Boehme Inc H O 915 Broadway New York 10 NY 20 Bogen Co David PO Box 500 Paramus NJ 5-8-12-15-19 Bristol Co PO Box 1790 EITT	Hastings-on-Hudson N1 El-Tronics Inc Penn Ave Mayfield Pa Endeco Eng'g Development Co of Los Angeles 922 E Anaheim St Wilmington Calif
Chicago 43 III 30  18—COMMUNICATION SYSTEMS  Aircraft	Box 366 Sussex NJ 12-19 Boehme Inc H O 915 Broadway New York 10 NY 20 Bogen Co David PO Box 500 Paramus NJ 5-8-12-15-19 Bristol Co PO Box 1790 EITT Waterbury 20 Conn 3-10-11-18	Hastings-on-Hudson N1  El-Tronics Inc Penn Ave Mayfield Pa Endeco Eng'g Development Co of Los Angeles 922 E Anaheim St Wilmington Calif Entron Inc 4902 Lawrence St Bladensburg Md 21 Erro Radio Labs Inc
Chicago 43 III 30  18—COMMUNICATION  SYSTEMS  Aircraft	Box 366 Sussex NJ 12-19 Boehme Inc H O 915 Broadway New York 10 NY 20 Bogen Co David PO Box 500 Paramus NJ 5-8-12-15-19 Bristol Co PO Box 1790 EITT	Hastings-on-Hudson N1 El-Tronics Inc Penn Ave Mayfield Pa Endeco Eng'g Development Co of Los Angeles 922 E Anaheim St Wilmington Calif Entron Inc 4902 Lawrence St Bladensburg Md Ero Radio Labs Inc 637 Stewart Ave 2-3-5-7-9-12-15 637 Stewart Ave
Chicago 43 III   30   30   30   30   30   30   30	Box 366 Sussex NJ       12-19         Boehme Inc H O       0         915 Broadway New York 10 NY       20         Bogen Co David       20         PO Box 500 Paramus NJ       5-8-12-15-19         Bristol Co       PO Box 1790 EITT         Waterbury 20 Conn       3-10-11-18         Browning Labs Inc       750 Main St Winchester Mass         Brubaker Electronics Inc       11	Hastings-on-Hudson N1  El-Tronics Inc Penn Ave Mayfield Pa Endeco Eng'g Development Co of Los Angeles 922 E Anaheim St Wilmington Calif Entron Inc 4902 Lawrence St Bladensburg Md Erco Radio Labs Inc 637 Stewart Ave Garden City NY  8 8  2-3-5-7-9-12-15 16-19-20-22
Chicago 43 III   30   30   30   30   30   30   30	Box 366 Sussex NJ       12-19         Boehme Inc H O       915 Broadway New York 10 NY       20         Bogen Co David       20         PO Box 500 Paramus NJ       5-8-12-15-19         Bristol Co       PO Box 1790 EITT         Waterbury 20 Conn       3-10-11-18         Browning Labs Inc       750 Main St Winchester Mass       11         Brubaker Electronics Inc       362 Eastham Dr Culver City Calif       2	Hastings-on-Hudson N1  El-Tronics Inc Penn Ave Mayfield Pa Endeco Eng'g Development Co of Los Angeles 922 E Anaheim St Wilmington Calif Entron Inc 4902 Lawrence St Bladensburg Md Erco Radio Labs Inc 637 Stewart Ave Garden City NY Executione Inc Let Levington Ave New York 17 NY 5-8-15
Chicago 43 III   30   30   30   30   30   30   30	Box 366 Sussex NJ       12-19         Boehme Inc H O       915 Broadway New York 10 NY       20         Bogen Co David       20         PO Box 500 Paramus NJ       5-8-12-15-19         Bristol Co       PO Box 1790 EITT         Waterbury 20 Conn       3-10-11-18         Browning Labs Inc       750 Main St Winchester Mass       11         Brubaker Electronics Inc       3652 Eastham Dr Culver City Calif       2         Budelman Radio Corp       375 Fairfield Ave	Hastings-on-Hudson NT El-Tronics Inc Penn Ave Mayfield Pa Endeco Eng'g Development Co of Los Angeles 922 E Anaheim St Wilmington Calif Entron Inc 4902 Lawrence St Bladensburg Md Ero Radio Labs Inc 637 Stewart Ave Garden City NY Executone Inc 415 Lexington Ave New York 17 NY 5-8-15
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Table   Tabl	Box 366 Sussex NJ   12-19	Hastings-on-Hudson NT  El-Tronics Inc Penn Ave Mayfield Pa Endeco Eng'g Development Co of Los Angeles 922 E Anaheim St Wilmington Calif Entron Inc 4902 Lawrence St Bladensburg Md Ero Radio Labs Inc 637 Stewart Ave Garden City NY Executone Inc 415 Lexington Ave New York 17 NY 5-8-1.5 Federal Mfg & Eng'g Corp 1055 Stewart Ave Garden City NY Federal Telecommunication Labs Div IT&T 500 Washington Ave Nutley NJ 5-19 Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd 1-3-5-8-10-11 Clifton NJ 12-13-15-19-20-21-22 Feiler Eng'g & Mfg Co 8026 N Monticello Ave Skokie III 3-8-12-15 Femco Inc Irwin Pa First Electronics Corp 117 Blue Hill Ave Boston 19 Mass Ford Instrument Co Div Sperry Rand Corp 31-10 Thomson Ave Long Island City 1 NY Gates Radio Co 123 Hampshire St Quincy III General Bronze Corp 711 Stewart Ave Garden City NY General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY General Electric Co Communication Products Dept Syracuse NY General Precision Lab Inc
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Table   Tabl	Box 366 Sussex NJ  Boehme Inc H O 915 Broadway New York 10 NY  Bogen Co David PO Box 500 Paramus NJ  Fistol Co PO Box 1790 EITT Waterbury 20 Conn  Browning Labs Inc 750 Main St Winchester Mass  11  Brubaker Electronics Inc 3652 Eastham Dr Culver City Calif  Budelman Radio Corp 375 Fairfield Ave Stamford Conn  3-5-10-11-15  Bundy Electronics Corp 171 Fabyan Pl Newark 12 NJ  Burroughs Corp 6071 2 Ave Detroit 32 Mich 1-2-6-11-12-18-19-20  Buss-Clement-Doughten & Associates 201 B Studio Hill Chester Sprinzs Pa Canadian Aviation Electronics Ltd 6214 Cote de Liesse Rd St Laurent Quebec Canada 1-2-10-14-18  Central Electronics Inc 1247 W Belmont Ave Chicago 13 Ill CGS Laboratories Inc 391 Ludlow St Stamford Conn Clegg Labs Div Clegg Inc Ridgedale Ave Morristown NJ 4-5-10-12-16-22  Collins Radio Co 855 35 St NE 1-2-3-4-5-6-8-9-10-11- Cedar Rapids Iowa 12-13-16-18-20-21-22  Commercial Radio Sound Corn 652 1 Ave New York 16 NY Communications Co Cofficiago 44 Ill 3-5-8-13-15-18-19  Communications Co Coral Gables Fla Conn Telephone & Electric Corn 70 Brittania St Meriden Conn 8-12-19-20  Consolidated Avionics Corp 66 Brooklyn Ave Westbury NY 1-18-20  Consolidated Productions Inc Broward Int'l Airport Ft Lauderdale Fla Continental Electronics Mfg Co	Hastings-on-Hudson NT El-Tronics Inc Penn Ave Mayfield Pa Endeco Eng'g Development Co of Los Angeles 922 E Anaheim St Wilmington Calif Entron Inc 4902 Lawrence St Bladensburg Md Ero Radio Labs Inc 637 Stewart Ave Garden City NY Executone Inc 415 Lexington Ave New York 17 NY 5-8-15 Federal Mfg & Eng'g Corp 1055 Stewart Ave Garden City NY Federal Telecommunication Labs Div IT&T 500 Washington Ave Nutley NJ Federal Telecommunication Labs Div IT&T 500 Washington Ave Nutley NJ Federal Telecommunication Labs Oiv IT&T 500 Washington Ave Nutley NJ Federal Telecommunication Labs Oiv IT&T 500 Washington Ave Nutley NJ Federal Telecommunication Labs Oiv IT&T 500 Washington Ave Skokie III 2-13-15-19-20-21-22 Feiler Eng'g & Mfg Co 8026 N Monticello Ave Skokie III 3-8-12-15 Femco Inc Irwin Pa First Electronics Corp 117 Blue Hill Ave Boston 19 Mass Ford Instrument Co Div Sperry Rand Corp 31-10 Thomson Ave Long Island City 1 NY Gates Radio Co 123 Hampshire St Quincy III General Bronze Corp 711 Stewart Ave Garden City NY General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY General Electric Co Communication Products Dept Syracuse NY General Electric Co Communication Products Dept Syracuse NY General Electric Co Light Military Electronic Equip Pept French Rd Utica NY General Precision Lab Inc 63 Bedford Rd Pleasantville NY G& M Equipment Co 7315 Varna Ave N Hollywood Calif Goslin Electric & Mfg Co 2921 W Olive Ave Burbank Calif Gulton Industries Inc 212 Durham Ave Metuchen NJ  Literace Electronics Co
Table   Tabl	Box 366 Sussex NJ  Boehme Inc H O 915 Broadway New York 10 NY  Bogen Co David PO Box 500 Paramus NJ  Bristol Co PO Box 1790 EITT Waterbury 20 Conn  Browning Labs Inc 750 Main St Winchester Mass 11  Brubaker Electronics Inc 3652 Eastham Dr Culver City Calif 2  Budelman Radio Corp 375 Fairfield Ave Stamford Conn 3-5-10-11-15  Bundy Electronics Corp 171 Fabyan Pl Newark 12 NJ 8  Burroughs Corp 6071 2 Ave Detroit 32 Mich 1-2-6-11-12-18-19-20  Buss-Clement-Doughten & Associates 201 B Studio Hill Chester Springs Pa Canadian Aviation Electronics Ltd 6214 Cote de Liesse Rd St Laurent Quebec Canada 1-2-10-14-18  Central Electronics Inc 1247 W Belmont Ave Chicago 13 Ill CGS Laboratories Inc 391 Ludlow St Stamford Conn 1-4-5-16  CIegg Labs Div Clegg Inc Ridgedale Ave Morristown NJ 4-5-10-12-16-22  Collins Radio Co 855 35 St NE Commercial Radio Sound Corn 652 1 Ave New York 16 NY 8  Communication Equipment & Enr'g Co 5646 W Race Ave Chicago 44 Ill 3-5-8-13-15-18-19  Conn Telephone & Electric Corn 70 Brittania St Meriden Conn 8-12-19-20  Consolidated Avionics Corp 66 Brooklyn Ave Westbury NY 1-18-20  Consolidated Productions Inc Broward Int'l Airport Ft Lauderdale Fla Continental Electronics Ltd 302 Oakland St Brooklyn 22 NY 20	Hastings-on-Hudson NT  El-Tronics Inc Penn Ave Mayfield Pa Endeco Eng'g Development Co of Los Angeles 922 E Anaheim St Wilmington Calif Entron Inc 4902 Lawrence St Bladensburg Md Ero Radio Labs Inc 637 Stewart Ave 16-19-20-22 Executone Inc 415 Lexington Ave New York 17 NY 5-8-15 Federal Mfg & Eng'g Corp 1055 Stewart Ave Garden City NY Federal Telecommunication Labs Div IT&T 500 Washington Ave Nutley NJ Federal Telecommunication Labs Div IT&T 500 Washington Ave Nutley NJ Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd 1-3-5-8-10-11 Clifton NJ Federal Telephone & Radio Co 8026 N Monticello Ave Skokie III 3-8-12-15 Femco Inc Irwin Pa First Electronics Corp 117 Blue Hill Ave Boston 19 Mass Ford Instrument Co Div Sperry Rand Corp 31-10 Thomson Ave Long Island City 1 NY Gates Radio Co 123 Hampshire St Quincy III General Bronze Corp 711 Stewart Ave Garden City NY General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY General Electric Co Communication Products Dept Syracuse NY General Electric Co Light Military Electronic Equip Dept French Rd Utica NY General Precision Lab Inc 63 Bedford Rd Pleasantville NY General Precision Lab Inc 63 Bedford Rd Pleasantville NY General Precision Lab Inc 63 Bedford Rd Pleasantville NY General Precision Lab Inc 63 Bedford Rd Pleasantville NY General Precision Lab Inc 63 Bedford Rd Pleasantville NY General Precision Lab Inc 63 Bedford Rd Pleasantville NY General Precision Lab Inc 63 Bedford Rd Pleasantville NY General Precision Lab Inc 63 Bedford Rd Pleasantville NY General Precision Lab Inc 63 Bedford Rd Pleasantville NY General Precision Lab Inc 63 Bedford Rd Pleasantville NY General Precision Lab Inc 63 Bedford Rd Pleasantville NY General Precision Lab Inc 63 Bedford Rd Pleasantville NY General Precision Lab Inc 64 Mfg Co 7315 Varna Ave N Hollywood Calif Goslin Electric & Mfg Co 2921 W Olive Ave Burbank Calif Gulton Industries Inc 212 Durham Ave Metuchen NJ

M-11:		
Hallicrafters Co	National Aeronautical Corp	Sparton Control Systems Div
4401 W 5 Ave Chicago 24 Ill 1-16-18 Hancock Electronics Corp	Ft Washington Industrial Park	Sparks-Withington Co
2553 Middlefield Rd	Ft Washington Pa	2301 E Michigan Ave Jackson Mich 18
Redwood City Calif 1-8-10-18-21	National Aircraft Corp Electronics Div 3411 Tulare Ave Burbank Calif 1-14	Spinform Inc
Harvey-Wells Electronics Inc	National Scientific Labs Inc	65 Mechanic St
North St Southbridge Mass 4-12	2010 Massachusetts Ave	Attleboro Mass Springer Aircraft Radio Co Earl W
Hogan Labs Inc	N W Washington 6 DC 10-20	Route 11 Box 330 Indianapolis Ind 1
155 Perry St New York 14 NY 6 Heover Electronics Co	Neill Co R W	Standard Electric Time Co
0.040 TV 11 1 4 70 144	4320 Montrose Ave Chicago 41 Ill 5-8-13	89 Logan St Springfield 2 Mass 15
Hupp Electronics Co Div Hupp Corp	Nevada Air Products Co P O Box 2472 Reno Nev 1-2-18	Stelma Inc
743 Circle Ave Forest Park III 15-16-17-18-20	P O Box 2472 Reno Nev 1-2-18 Norden-Ketay Corp	190 Henry St Stamford Conn 11-18-19-20
Hycon Mfg Co	Commerce Rd Stamford Conn 17	Stratford Corp 44 W 28 St New York 1 NY 1-8
707 S Raymond Ave Pasadena Calif 10-21	North Electric Co	44 W 28 St New York I NY 1-8 Stewart Warner Electronics Div
Industrial Radio Corp	553 S Market St	1300 N Kostner Ave 1-2-5-6-8-9-10-12
428 N Parkside Ave	Galion Ohio 2-3-5-8-15-18-19	1300 N Kostner Ave 1-2-5-6-8-9-10-12 Chicago 51 Ill 13-14-16-17-18
Intelex Systems Inc. 4-5-12-13-14-15-22	Northern Radio Co	Stromberg-Carlson Div General
428 N Parkside Ave Chicago 44 Ill 4-5-12-13-14-15-22 Intelex Systems Inc 22 Thames St	143 W 22 St	Dynamics Corp 100 Carlson Rd
New York 6 NY 5.8-10-16-17-19 20	New York 11 NY 4-5-11-18-19 Nuclear-Electronics Corp	Rochester 3 NY 3-5-8-10-11-13-15-19
Anternational Research Associates	2632 W Cumberland St	Sylvania Electric Products Inc
2221 Warwick Ave Santa Monica Calif 1	Philadelphia 32 Pa 9	1740 Broadway New York 19 NY 1-10 Talk-A-Phone Co
I-T-E Circuit Breaker Co Special	Oberline Inc	1512 S Pulaski Rd
Products Div 601 E Erie Ave	P O Box 921 Beverly Hills Calif 3-15	Chicago 23 Ill 3-5-8-15-19
Philadelphia 34 Pa 10 Jarvis Electronics Corp	O'Brien Electric Corp	Tarzian Inc Sarkes
1140 Chamas C4 777 43 734	6514 Monica Blvd Hollywood 38 Calif 8-15	E Hillside Drive Bloomington Ind 10-21
Johnson Co E F	Otis Elevator Co Electronics Div 35 Ryerson St	TelAutograph Corp
Waseca Minn 4-16-22	Brooklyn 5 NY 1-2-16-18-20	8700 Bellanca Ave Los Angeles 45 Calif 25 Telechrome Mfg Corp
J-V-M Eng'g Co	Packard Bell Electronics Corp	28 Ranick Dr Amityville LI NY 18
4633 S Lawndale Ave Lyons Ill 10-21	12333 W Olympic Blvd	Tele-Dynamics Inc
Kaar Eng'g Corp	Los Angeles 64 Calif 1-4-14-18	32 & Walnut Sts Philadelphia 4 Pa 10-18-22
2995 Middlefield Rd Palo Alto Calif Kahn Research Labs	Palmer Inc M V	Telephonics Corp
22 Pine St Freeport NY 1-2-5-6-11-16-19	Vancouver Wash  Paymer Inc M V  4002 Fruit Valley Rd  Vancouver Wash  11-3-5-7-8-9-10  11-15-16-17-19	Park Ave Huntington LI NY 1-8-10-14-16-19
Kaiser Aircraft & Electronics Corp	Parsons Co Ralph M Electronics Div	Teletronic Labs Inc
Toledo Electronics Div	raisons to Raiph M Electronics Div	1835 W Rosencrans Ave Gardena Calif 8 Telecommunications Ltd
P O Box 437 Toledo Ohio 1-8-16	Partrick & Wilkins Co	Newmarket Rd Cambridge England 5
Kuss Industries Inc	51 N 7 St Philadelphia 6 Pa 5-9	Times Facsimile Corp
Tacony & Lewis Sts Philadelphia 24 Pa 8	Permoflux Products Co	540 W 58 St New York 19 NY 6
Lambda-Pacific Eng'g Inc	4101 San Fernando Rd Glendale 4 Calif 4-8	Topp Industries Inc
14725 Arminta St Van Nuys Calif 10-21 Land-Air Inc	Philco Corp Govt & Industrial Div	5255 W 102 St Los Angeles 45 Calif 1-21
7444 W Wilson Ave Chicago 31 Ill 10-22	4700 Wissahickon Ave Philadelphia 44 Pa 10-11-13-15-21	Transelectric Mfg Co Hopewell Rd Oxford Pa  8-19
Land-Air Inc Instrument & Electronic Div	Philadelphia 44 Pa 10-11-13-15-21 Polarad Electronics Corp	Transitron Inc
2133 Adams Ave	43-20 34 St Long Island City 1 NY 10	186 Granite St Manchester NH 5-9-12
San Leandro Calif 1-5-8-10-18	Polytronic Research Inc	Union Switch & Signal Div
Langevin Mfg Corp	7660 Woodbury Dr Silver Spring Md 10-21	Westinghouse Air Brake Co
47-27 Austell Pl Long Island City 1 NY 8-13 Lear Inc	Pratt Albert	Braddock Ave Pittsburgh 18 Pa 3-12-13
3171 S Bundy Drive	114 W Lake View Ave	United Electrodynamics 1200 S Marengo Ave Pasadena Calif 18
Santa Monica Calif 1-2-5-22	Milwaukee 17 Wis 8-12-22 Premier Instrument Corp	1200 S Marengo Ave Pasadena Calif 18 Uniwave Inc
Lenkurt Electric Co	52 W Houston St New York 12 NY 10-21	2 Marine St Farmingdale NY 10-18-21
1105 County Rd San Carlos Calif 10	Press Wireless Labs Inc	U S Instrument Corp
Lieco Inc	25 Prospect Pl W Newton 65 Mass 5	P O Box 33E
3610 Oceanside Rd Oceanside LI NY 21 Link-Radio Corp	Prodelin Inc	Charlottesville Va 4-5-8-9-12-13-19-20
	307 Bergen Ave Kearny NJ 10-21	Vapor Recovery Systems Co 2820 N Alameda St Compton Calif 18
New Hyde Park LI NY 16-19-20-22	Production Research Corp Thornwood NY 1-3-7-8-10-11-12-14-15-16-17-18	2820 N Alameda St Compton Calif 18 Varo Mfg Co
Litton Industries of Calif	Pye Canada Ltd	2201 Walnut St Garland Texas 2-22
336 N Foothill Rd	82 Northline Rd 1_2_3_4_5_8_0	Virginia Electronics Co
Beverly Hills Calif 14-16	Toronto 16 Ontario Canada 10-11-12-19-22	River Rd & B & O R R
Loge Sound Engrs J M	Pye Telecommunications Ltd	Washington 16 DC 2-4-8-9-17-22
2171 W Washington Blvd Los Angeles 18 Calif	Newmarket Rd 2-3-4-5-8-9-10-11-12 Cambridge England 13-14-15-19-20-21-22	Vocaline Co of America Old Saybrook Conn 3-9
Lynch Carrier Systems Inc	Radio Corp of America Commercial	Old Saybrook Conn 3-9 Voron & Co George
695 Bryant St 3-5-11-13-16	Electronic Products	835 N 19 St
San Francisco 7 Calif 17-18-19-20	Camden 2 NJ 5-8-9-10-15-16-19-21-22	Philadelphia 30 Pa 1-5-7-8-15-19-20
Mack Electronics Div Inc Sub Mack	Radio Eng'g Products Ltd	Waldorf Instrument Co
Trucks Inc 1120 S 2 St	1080 University St	Div F C Huyck & Sons Park Ave
Plainfield NJ Magna Electronics Co	Montreal 3 Quebec Canada 11-19-20-22	Huntington Station NY 18
0.010 A A T 1	Radio Frequency Labs Inc Boonton NJ	Warren Corp J C 21 Hanse Ave Freeport NY 12-22
Majestic Int'l Corp	Radio Receptor Co	Warren Mfg Co
79 Washington St Brooklyn 1 NV 9	240 Wythe Ave Brooklyn 11 NY 2	Newton Rd Littleton Mass 3-5-19
Manson Laboratories Inc	Radio Specialty Mfg Co	Webster Electric Co
207 Greenwich Ave Stamford Conn 3-11-16 M-B Communication Co	125 S E 7 Ave Portland 14 Ore 4-5-12	1900 Clark St Racine Wis 8
M-D Communication Co	Rauland-Borg Corp	Westinghouse Electric Corp P O Box 868 Pittsburgh 30 Pa 10-16
4626 Walnut St Philadelphia 39 Pa 5-8-10-18 Measurement Eng'g Ltd	3515 W Addison St Chicago 18 Ill 8-15 Raytheon Mfg Co	Westrex Corp
232 John St	100 River St Waltham 54 Mass 10	111 8 Ave New York 11 NY 5-9-16
Arnprior Ontario Can 5-12-14-17	Raytheon Mfg Co Commercial Equip Div	Wheeler Insulated Wire Co
Michigan Electronics Inc	100 River St Waltham 54 Mass 5-9	150 E Aurora St Waterbury 20 Conn 5-8
854 N Rockwell St	Remler Co	Wickes Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ 2-12-22
Chicago 22 Ill 4-5-7-8-9-12-13-14-15	2101 Bryant St San Francisco Calif 1-7-8-9	12 St & Ferry Ave Camden 4 NJ 2-12-22 Wilcox Electric Co
Microwave Development Labs	Rich Electronics Inc	1400 Chestnut St Kansas City 27 Mo 1-2-16
92 Broad St Babson Park 57 Mass 10 Mine Safety Appliances Co	212 N W 8 Ave Miami 36 Fla 18 Rixon Electronics Inc	Worner Electronic Devices
201 N Braddock Ave	2414 Reedie Dr Silver Spring Md 5-11-20	Rankin Ill 8
Pittsburgh 8 Pa 3-7-8-12-15-19-22	Royal Communication Systems	WRL Electronics Inc
Minn-Honeywell Regulator Co	11462 Euclid Ave Cleveland 6 Ohio 15-18-22	3415 W Broadway Council Bluffs Iowa 4
Ordnance Div	Scantlin Electronics Inc	
Hopkins Minn 20 Mobil Electronics Mfg Co	11624 W Pico Blvd	
	Los Angeles 64 Calif 15-17 Schrack Electrical Sales Com	10 COMBUTERS
Model Eng'g & Mfg Inc	Schrack Electrical Sales Corp 45 W 81 St New York 24 NY 5-8-19	19—COMPUTERS
50 Frederick St Huntington Ind 1.8	Servo Corp of America	ik - utoto-
Morrow Radio Mfg Co	2020 Jericho Turnpike	Accumulators 1
2794 Market St Salem Ore 1-4-5-22	New Hyde Park NY 2-3	Amplifiers 2
Mosler Research Products Inc 3 Keeler St Danbury Conn	Simplex Equipment Corp	Analog computers 3
Motiograph Inc 12	55 La France Ave Bloomfield NJ 5-15	Analog-to-digital converters 4
4441 W Lake St Chicago 24 III 5.8.15	Simpson Mfg Co Mark	Board plugs 5
Motorola Communications & Electronics	32-28 49 St Long Telend City 3 NV 1 3 4 5 9 19 15	Computer components 6
inc 4501 W Augusta Blvd	Long Island City 3 NY 1-3-4-5-8-12-15 Skiatron Electronics & TV Corp	Computer heads 7
Chicago 51 III 4-10-11-12-13-15-22	180 Varick St	Computer testare
Muirhead & Co Ltd	New York 14 NY 1-2-3-6-11-14-17-18-20	Computer testers 8
Beckenham Kent England 6	Smith-Meeker Eng'g Co	Counters 9
Muirhead Instruments Inc	157 Chambers St	Data recorders, analog 10
677 5 Ave New York 22 NY 6	New York 7 NY 1-5-10-16	Data recorders, digital 11

Docadors 12	Antlab Inc	Cinema-Television Ltd
Decoders	4950 N High St Columbus 14 Ohio 32	Worsley Bridge Rd Lower Sydenham London S E 26 England 25
Demodulators	Applegate & Co C J 1840 24 St Boulder Colo 23	Clary Corp
Differential analyzers 15	Arenberg Ultrasonic Laboratory	408 Junipero St San Gabriel Calif 11-22-31-34-35-38
Digital analyzers 16	94 Green St Jamaica Plain 30 Mass 13-42 Askania Regulator Co	Clevite Harris Products Inc
Digital computers 17	240 E Ontario St Chicago 11 III 4	6545 Carnegie Ave Cleveland 3 Ohio 29 Coil Winders Inc
Digital-to-analog converters 18	Associated Eng'g Corp 65 Kent St Brookline 46 Mass	New York Ave Westbury LI NY 2-13
Discs, computer	Atlas Precision Products Co	Coleman Eng'g Co 6040 W Jefferson Blvd
Function generators 21	3801 Castor Ave Philadelphia 24 Pa 3 Atomic Labs Inc	Los Angeles 16 Calif 4-18
Input equipment 22	3086 Claremont Ave Berkeley 5 Calif 3	Colorado Research Corp
Logic circuits	Aurex Corp 1117 N Franklin St Chicago 10 III 22-46	4697 E Evans Ave 5-4-6-10-11-15 Denver 22 Colo 21-22-31-33-38
Matrixes 24	Austin Co Special Devices Div	Columbia Technical Corp
Memory, crystal 25	76 9 Ave New York 11 NY 3-4-10-11-17-22-31 Automation Management Inc	61-02 31 Ave Woodside 77 NY 13 Commercial Controls Corp Sub Friden
Memory, drums 26	Adams St Westboro Mass 17	Calculating Mach 1 Leighton Ave
Memory, multi-core magnetic 27	Autonetics Div North American Aviation	Computer Control Co
Memory, tape loop 28	Avion Div ACF Industries Inc	92 Broad St Wellesley 57 Mass 6-22-31-42-46
Memory tubes	11 Park Pl Paramus NJ 2-3-10-11-12-17-46	Computer Eng'g Associates 350 N Halstead St Pasadena 8 Calif 3-17
Output equipment	Avionics Ltd P O Box 200	Computer Instruments Corp
Plotters, X-Y	Niagara-on-the-Lake Ontario Canada 19	92 Madison Ave Hempstead NY
Printers, high speed 33	Baird-Atomic Inc 33 University Rd	Computer-Measurements Corp 5528 Vineland Ave N Hollywood Calif 9-33
Printers, keyboard 34	Cambridge 38 Mass 1-3-4-10-11-17-18-33	Computing Devices of Canada Ltd
Printers, line	Baldwin Piano Co 1801 Gilbert Ave Cincinnati 2 Ohio 4-20	Conved & Moser
Proportioning units 36	Beckman-Berkeley Div Beckman Instruments	2 Borden Ave Long Island City 1 NY 26
Punched card equipment 37	Inc 2200 Wright Ave	Consolidated Avionics Corp 66 Brooklyn Ave 3-4-6-8-10-14-17-18-22
Readout devices	Richmond 3 Calif 3-6-10-11-17-30 Beckman/Helipot Corp	Westingry NY 28-31-45-46-47
Resolvers	Newport Beach Calif 13	Consolidated Electrodynamics Corp 300 N Sierra Madre Villa
Shift registers	Beckman Instruments Inc Data & Control Systems Scientific Instrument Div	Pasadena Calif 4-10-11
Storage acoustic 42	325 N Muller Ave	Coals Floatria Co
Storage, dark trace tube 43	Anaheim Calif 2-3-8-9-10-11-17 Beckman Instruments Inc Process	Combatt Science Lobe F W
Storage, electrostatic 44	Instruments Div 2500 Fullerton Rd	3117 Venice Blvd Los Angeles 19 Calif 10-11
Storage, ferroelectric 45	Fullerton Calif 4-6-10-11-18 Beck's Inc	Corbin Corp 5419 56 Pl Riverdale Md 3-17
Storage, magnetic 46	298 E 5 St St Paul 1 Minn 5-6-19-27-45	Couning Class Works
Storage, mechanical 47	Bel Fuse Inc	Corning NY 13
Storage, photographic 48	311 Mountain Rd Union City NJ 13 Bell Aircraft Corp	Dale Products Inc Columbus Nebr
Storage, tubes	P O Box 1 2-3-4-6-9-17-18-22-31-42	Dallons Labs
Tape mechanisms 50	Buffalo 5 NY 43-44-45-46-47-18 Belock Instrument Corp	5066 Santa Monica Blvd Los Angeles 29 Calif
A C Electronics Div General Motors Corp	111-01 14 Ave	DATAmatic Corp
Toledo Ohio 3-17-18 Acton Laboratories	College Point 56 NY 3-5-6-30-38-16-17 Bendix Aviation Corp Bendix Computer Div	151 Needham St Newton Highlands 61 Mass 17
533 Main St Acton Mass 10	5630 Arbor Vitae St	Data Din C M Giannini & CO
Addressograph-Multigraph Corp 1200 Babbitt Rd	Los Angeles 45 Calif 6-15-17-22-31 Bendix Aviation Corp Bendix Radio Div	1307 S Myrtle Ave Monrovia Calif 4-11-18
Cleveland 17 Ohio 22-31-33-38-50	East Joppa Rd Towson 4 Md 8	Daven Co Route 10 Livingston NJ 13
Advance Electronics Lab Inc 249 Terhune Ave Passaic NJ 13	Bendix Aviation Corp	Daystrom Instrument Div Daystrom Inc Archbald Pa 27
Advance Industries Inc	Detroit 2 Mich 26-31-39-45-46	Delaware Products Co
640 Memorial Dr 3-4-6-17-18-22 Cambridge 39 Mass 31-38-45-46-47	Bendix Aviation Corp Cincinnati Div 3130 Wasson Rd Cincinnati 8 Ohio	300 Broadway Camden 3 NJ 4-11
Aero Electronics Co	Benson-Lehner Corp	Delevan Electronics Corp Roycroft Campus E Aurora NY 33
1512 N Wells St Chicago 10 Ill 3-32-38 Airborne Instruments Lab Modac Div	11930 W Olympic Blvd 4-11-16-18 Los Angeles 64 Calif 22-31-32-34-38	Deltime Inc 608 Fayette Ave Mamaroneck NY 2-4-6-13-42
864 Franklin Ave	B J Electronics Borg-Warner Corp	Deutschmann Corp Tobe
Thornwood NY 11-17-22-31-46 AiResearch Mfg Co Div Garrett Corp	3300 Newport Ave Santa Ana Calif 7-11-26	Norwood Mass
9851 Sepulveda Blvd	Berkshire Labs 586 Bank Village Greenville NH 6	Devol Research Co Brookside Dr Greenwich Conn 4-6-7-18-26-46
Los Angeles 45 Calif 2-22-31 Airflyte Electronics Co	Bliley Electric Co	Diehl Mfg Co
535 Avenue A Bayonne NJ 4-6-18-20-26	Union Station Bldg Erie Pa 13 Bowmar Instrument Corp	Finderne Ave Somerville NJ 6-39 Digitronics Corp
Alden Electronic & Impulse Recording Equip Co P O Box 125	2415 Pennsylvania St Ft Wayne Ind 9	35-10 36 Ave
Westboro Mass 10-11	Brew & Co Richard D 90 Airport Concord NH 13	Dilectron Div Gudeman Co
Alden Products Co 123A N Main St Brockton Mass 6-13-27	Briggs Associates	2669 S Myrtle Ave Monrovia Cain
Allegany Instrument Co	10 DeKalb St 4-6-8-10-11-16-17-18 Norristown Pa 19-22-23-30-31-45-46	Donner Scientific Co 888 Galindo St Concord Calif 3-6-21-30
1091 Wills Mountain	Bristol Co	Doty Acoustical Electronic Labs
Cumberland Md 11-17-22-31 AltoScientific Co	P O Box 1790 EITT	431 Broome St New York 13 NY 2-3-6-12-17
855 Commercial St Palo Alto Calif 6-8	Brubaker Electronics Inc	DuKane Corp
Alwac Corp 13040 S Cerise	3652 Eastham Dr Culver City Calif 12-13	St Unaries III
Hawthorne Calif 6-11-17-22-31-32-37-46	Brush Electronics Co 3405 Perkins Ave Cleveland 14 Ohio 7-10	Du Mont Labs Inc Allen B 760 Bloomfield Ave Clifton NJ
American Electronics Inc 655 W Washington Blvd	Burroughs Corp 3-4-5-8-9-10-11-13-14-17-	Dwyer Eng'g Co
Los Angeles 15 Calif 39	6071 2 Ave 18-22-26-27-28-30-31-33- Detroit 32 Mich 34-35-42-45-46-47-48	Pine St Ext Nashua NH 6-14 Dynalysis Development Labs Inc
American Electronics Inc Instrument Div 9503 W Jefferson Blvd	Burroughs Corp Electronic Tube Div	11941 Wilshire Blvd
Culver City Calif 39	Box 1226 Plainfield NJ 9-12-38-49 Bryant Gage & Spindle Div	Los Angeles 25 Calif  Dynamics Research Associates Div
American Machine & Foundry Co	Box 620-R Springfield Vt 13-26	Universal Match Corp P O Box 5841
Electronics Div 1085 Commonwealth Ave Boston 15 Mass 38	Burnell & Co	Ferguson 21 Mo Dynamu Magnetronics Corp Div Maico Co
American Machine & Foundry Co Defense	Burroughs Corp 3-4-5-8-9-10-11-13-14-17	21 N 3 St Minneapolis 1 Minn 7
Products Group 1101 N Royal St Alexandria Va 4-8-11-18-38	6071 2 Ave 18-22-26-27-28-30-31-33	Eagle Pencil Co 703 E 13 St New York 9 NY 22
Ampex Corp	Philadelphia 7 Pa 6-13-17-22-27-31-38-41 Cambridge Thermionic Corp	Fastern Precision Resistor Corp
934 Charter St Redwood City Calif 10-11-31-46-50	445 Concord Ave Cambridge 38 Mass 5-6	675 Barbey St Brooklyn 7 NY
Amphenol Electronics Corp	Canadian Aviation Electronics Ltd 6214 Cote de Liesse Rd	Eastman Kodak Co 343 State St Rochester 4 NY
1830 S 54 Ave Chicago 50 Ill 6	St Laurent Quebec Canada 3-13	Eclipse-Pioneer Div Bendix Aviation Corp
Amplex Div Chrysler Corp P O Box 2718 Detroit 31 Mich	Central Coil Co 1720 N Luett St Indianapolis 22 Ind 6-13	Teterboro NJ 4-20-39 Edison Industries Thomas A Instrument
Analogue Controls Inc	Century Electronics Co	Div 93 Lakeside Ave
39 Roselle St Mineola NY 2-3-10-11-15-17-30-32	34 Oleander St Cocoa Fla 17	W Orange NJ Flectric Regulator Corp
Andersen Labs Inc 39 Talcott Rd W Hartford Conn 13	Century Engineers 2741 N Naomi St Burbank Calif 3-8	Pearl St Norwalk Conn
ANelex Corp	Chicago Aerial Industries Inc	Flectrical Communications Inc 765 Clementina St San Francisco 3 Calif 6-17
150 Causeway St Boston 14 Mass 33-35	1980 N Hawthorne Ave Melrose Park III 2-3	100 Otementina De Dan A Tenedico o Cini
		247

ment Co 1206 Cherry St	-
Electrodata Div Burroughs Corn	9
460 Sierra Madre Villa Pasadena Cali-	f 17
Electro Instruments Inc 3794 Rosecrans St San Diego 10 Calif	38
3794 Rosecrans St San Diego 10 Calif Electro-Mec Lab Inc	
47-51 33 St Long Island City 1 NY Electronic Associates Inc	4
Long Branch NJ 3-10-11-30-31	-32-39
Electronic Control Systems 2136 Westwood Blvd	
Los Angeles 25 Calif 12-16	-17-20
Electronic Computer Co 6191 Ridge Ave Philadelphia 28 Pa	4
Electronic Contractors Inc	
2101 SE 6 Ave Portland 14 Ore Electronic Engra Co of Calif	2 <b>-</b> 3-6
100 B Alvarado nos Angeles 51 Calif	22
Electronics Corp of America  1 Memorial Dr Cambridge 42 Mass 4.	
El-Rad Mfg Co	-20-26
2800 W Cullom Ave Chicago 18 Ill Endevco Corp	13
161 E California St Pasadena Calif	4-9
Engineered Electronics Co 506 E 1 St Santa Ana Calif	
Eusco Inc	
588 Commonwealth Ave 4-6-10- Boston 15 Mass 22-27-28-31-41-	11-18
Boston 15 Mass 22-27-28-31-41- Ereona Corp	42-46
551 5 Ave New York 17 NY	28
Ereona Corp 551 5 Ave New York 17 NY Eric Resistor Corp 644 W 12 St Eric 6 Pa	24-27
ESC Corp	
534 Bergen Blvd Palisades Park NJ Essex Electronics Div NYT Electronics	13 Inc
7303 Atoll Ave N Hollywood Calif Essex Electronics	13
550 Springfield Area Daulieles 17 Julie N	J 13
Exact Eng'g & Mfg Inc	
Exact Eng'g & Mfg Inc P O Box 668 Oceanside Calif Farnsworth Electronics Co Div IT&T 3702 E Pontiac St Ft Wayne Ind Electronics & David Co Div IT&T	6
3702 E Pontiac St Ft Wayne Ind	29-44
Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd	
Clifton NJ 3-4-10-11-14-	17-23
Feedback Controls Inc 899 Main St Waltham 54 Mass 2-3	-6-30
Ferranti Electric Inc	-0-00
New York 20 NY 26-42-	17-22 16-50
Ferranti Electric Inc 30 Rockefeller Plaza New York 20 NY Filtron Co 10023 W Jefferson Blvd Culver City Cal- Filtron	10-10
Filtron Blvd Culver City Cal	if 13
131-15 Fowler Ave Flushing 55 NY	13
Fisher & Porter Co 478 Warminster Rd 3-4-6-9-10-1	11-17
478 Warminster Rd 3-4-6-9-10-1 Hatboro Pa 18-22-31-33-34-5	35-36
Florman & Babb 68 W 45 St New York 36 NY Forbes & Wagner Inc 343 Central Ave Silver Creek NY Ford Instrument Co Div Sperry Rand Co 31-10 Thomson Ave	48
Forbes & Wagner Inc	
Ford Instrument Co Div Sperry Rand Co	13
Long Island City 1 NY 3-6-17-22-3 Franklin Electronics Inc	1-39
Box 113 Bridgeport Pa 3-4-8-	9-38
F-R Machine Works Inc Electronic & X-Ray Div 26-12 Borough Pl	
X-Ray Div 26-12 Borough Pl Woodside 77 NY Fugle-Miller Labs Inc	21
301 Central Ave Clark NJ	13
Garrett Corp AiResearch Mfg Co Div	1.,
9851 Sepulveda Blvd Los Angeles 45 Calif 2-3-2	0 01
General Ceramics Corp	2-31
Keasbey NJ General Electric Co	7-46
Specialty Electronic Components Dent	
W Genesee St Auburn NY General Electric Co Apparatus Sales Div	13
l River Rd Schenectady 5 NY	21
General Electric Co Electronic Components Div 1 River Rd	
Components Div 1 River Rd Schenectady 5 NY General Electric Co Ltd of England 80 Shore Rd Port Washington NY	49
General Electric Co Ltd of England	40
General Kinetics Inc	49
555 23 St S Arlington 2 Va 8-11-22-3 General Precision Lab Inc	1-50
63 Redford Rd Pleasantville NV 4 10 1	1-18
General Transistor Western Corp 6110 Venice Blvd Los Angeles 34 Calif	
Genisco Inc	7-26
Genisco Inc 2233 Federal Ave Los Angeles 64 Calif	4
Gerber Scientific Instrument Co 162 State St Hartford 3 Conn	3
Gertsch Products Inc	U
11846 Mississippi Ave Los Angeles 25 Calif	10
Los Angeles 25 Calif Giannini & Co G M	18
918 E Green St 2-3-4-6-8-11	
Gilmore Industries Inc	1-40
5713 Euclid Ave Cleveland 3 Ohio	10
Goodyear Aircraft Corp 1210 Massillon Rd Akron 15 Ohio	3
GPS Instrument Co	U
811 Boylston St Boston 16 Mass 2-3-6-15-21-22	2-31

Co. A. B. L. G.
Grafton Eng'g Co 628 Vernon Rd Springfield Pa 10-11-22-31 Graphik Circuits Div Circh Mfg Com
Graphik Circuits Div Cinch Mfg Corp 200 S Turnbull Canyon Rd
Greer Hydraulics Inc N Y Int'l Airport Jamaica 30 NY Gries Reproducer Corn
125 Penel Corp
Gulton Industries Inc
Hagan Chemicals & Cantucker NJ 13-25
Hagan Kidor Dittohuwah 20 D
Haller Raymond & Brown  124 N Atherton St State College Pa 17  Hallier Raymond & The College Pa 17
1811-Scott Inc Electronics Div
nanson-Gorrill-Brian
85 Hazel St Glen Cove NY 4-10-11-18-22 Harshaw Chemical Co
1945 F 07 St Classical Co.
Heath Co 305 Territorial Rd Benton Harbor Mich Heiland Die Micheller 2-3-6-21
Heiland Div Minneapolis-Honeywell
5200 E Evans Ave Denver 22 Colo 10-48
Heiland Div Minneapolis-Honeywell 5200 E Evans Ave Denver 22 Colo Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif Hickok Electrical Lateur
10514 Dectrical Instrument Co
155 Dawn Ct 27
Hoover Electronics Co 3640 Woodland Ave Reltimore 7 MJ
Baltimore 7 Md 2-4-5-6-8-12-14-17-20
Hughes Aircraft Co Florence & Teale Sts Culver City Calif 6
Hughes Products Hughes Aircraft Co
Int'l Airport Sts Los Angeles 45 Culis 40
742 Circle Arra 70 Div Hupp Corp
Hycon Eastern Inc
75 Cambridge Pkwy Cambridge 42 Mass 6-10-11
1-1S Instrument Corp
Industrial Electronic Engineers
3973 Lankershim Blvd N Hollywood Calif 4-9-11-17-23-31-11
Mfg Corp Hillton & Frederick Rds
Baltimore 28 Md Industrial Test Equipment Co
55 E 11 St New York 3 NY 2-3-6-30
55 E 11 St New York 3 NY 2-3-6-30 Industrial Timer Corp 1407 McCarter Hwy Newark 4 NJ 37
67 Mechanic St Attlebone Warn
Intelligent Machines Research Corp 7019 Edsall Rd Research Park
Alexandria Va Intercontinental Dynamics Corp
170 Coolidge Ave Englewood NJ 21
170 Coolidge Ave Englewood NJ 21 Int'l Business Machines Corp 590 Madison Ave 11-17-22-31-33-31
International Tolerator G
200 Stoner Ave
Los Angeles 25 Calif 6-27-46-48 Jack Scientific Instrument Co Bill
Jacobs Instrument Co
Retherds 14 Md Co 10 17 20 20 21
Johnson Electronics Inc
521 Elwell St Orlando Fla  Julie Research Labs  556 W 168 St New York 32 NY  37
556 W 168 St New York 32 NY Kaiser Aircraft & Electronics Corp
101edo Electronica Div
P O Box 437 Toledo Ohio (ev Electric Corp
Sybernetes Corp
9 E 40 St New York 17 NY 10-11-22-31 aboratory For Electronics Inc
75 Pitts St Boston 14 Mass 4-11-23 ab-Tronics Inc
3656 N Lincoln Ave Chicago 13 Ill 5
2133 Adams Ave San Leandro Calif 18
angevin Mfg Corp
eeds & Northrup Co
4970 Stenton Ave Philadelphia 44 Pa 10
Jibrascope Inc Commercial Div 133 E Santa Anita Ave Burbank Calif 4-7-18-26-32-37
ibrascope Inc 1-2-3-4-6-9 11
808 Western Ave 17-18-19-22-23- Glendale Calif 26-27-31-45-46-47-50
ink Aviation Inc
Binghamton NY sipps Co Edwin A 5485 W Washington Blvd
5485 W Washington Blvd Los Angeles 16 Calif
atton Industries of Calif
336 N Foothill Rd 3-4-6-10-11-15-16- Beverly Hills Calif 17-18-26-29-31-33-46

Loral Electronics Corp	
749 E 140 St New York 54 NY Loyola Labs	1
Box 45074 Airport Station	
Los Angeles 45 Calif Mack Electronics Div Mack Trucks Inc	2
40 Leon St 2-3-4-6-10-11-1 Boston 15 Mass 20-22-24-27-	2-17-18
Mack Electronics Div Inc Sub Mack Trucks Inc 1120 S 2 St	
Plainfield NJ	3-1
Macleod & Hanopol 10 Roland St Charlestown 29 Mass	
Magnasync Mfg Co	1:c =
5546 Satsuma Ave N Hollywood Ca Magnetic Amplifiers Inc	111 9
632 Tinton Ave New York 55 NY Magnetics Inc	
Box 391 Butler Pa	
Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind	i
Marchant Calculators Inc 1475 Powell St	
Oakland 8 Calif 11-17-35	45-46-5
Maxson Instruments Div W L Maxson 47-37 Austell Pl Long Island City 1	NY
Melco Products Inc 301 5 Ave S Minneapolis 15 Minn	6-22-3
Melpar Inc 3000 Arlington Blvd Falls Church Va	3-1
Mica Fabricating Co Rochelle Park NJ	19
Mid-Century Instrumatic Corn	
611 Broadway New York 12 NY 2- Mid-West Conveyor Co Metal Products	3-22-31 Div
Mid-West Conveyor Co Metal Products 7 & Sunshine Rd Kansas City 15 Ka Milgo Electronic Corp	n 20
7601 N W 37 Ave 2-3-4- Miami 47 Fla 22-30-31-3	-5-6-18-
Millen Mig Co James	
150 Exchange St Malden 48 Mass Miller Co J W	13
5917 S Main St Los Angeles 3 Calif Milton Roy Co	13
1300 E Mermaid Lane Philadelphia 18	Pa 36
Mincom Minn Mining & Mfg Co 2049 S Barrington Ave	
Los Angeles 25 Calif	6
Minneapolis-Honeywell Regulator Co Davies Labs Div 10721 Hanna St	. 91 50
Beltsville Md 4-7-10-11-22-2. Minn-Honeywell Regulator Co Aero Div	
1433 Stinson Blvd Minneapolis Minn Mobil Electronics Mfg Co	8-22
1111 State Rd 67 E Anderson Ind	12
50 Frederick St Huntington Ind	2-6
Mobil Electronics Mfg Co 1111 State Rd 67 E Anderson Ind Model Eng's & Mfg Inc 50 Frederick St Huntington Ind Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY Monroe Calculating Mochine Co	26
Monroe Calculating Machine Co Electronics Div	
Morris Plains NJ 6-17-22	2-31-46
M Ten Bosch Inc 80 Wheeler Ave Pleasantville NY	3-14-50
Muirhead & Co Ltd Beckenbam Kent England	6-39
Muirhead Instruments Inc 677 5 Ave New York 22 NY	39
Nader Mfg Co 2661 S Myrtle Ave Monrovia Calif	31
National Aircraft Corp Electronics Div 3411 Tulare Ave Burbank Calif	
National Cash Register Co	6
Dayton 9 Ohio National Coil Co	11-17
P O Box 1237 Sheridan Wyo	13
National Tel-Tronics Corp 52 St Casimir Ave Yonkers NY	5
Navco Navigation Computer Corp 1621 Snyder Ave	
Philadelphia 45 Pa 1-5-6-8-9-17 Nemeth Inc	-18-23
2223 S Carmelina Ave	06.0~
Los Angeles 64 Calif 4-9-10-11-18 Non-Linear Systems Inc	-20-21
Non-Linear Systems Inc Del Mar Airport Del Mar Calif 4-8-11-16-18	-22-31
Norden-Ketay Corp	
Commerce Rd Stamford Conn 2-3-4-8 North American Instruments Inc	
2420 N Lake St Altadena Calif Norton Associates Inc	10-14
P O Box 96 Garden City NY Nuclear Development Corp of America	6-7-16
5 New St White Plains NY 3	-17-46
NYT Electronics Inc 2979 N Ontario St Burbank Calif	13
2979 N Ontario St Burbank Calif Offner Electronics Inc 5820 N Kedzie Ave Chicago 25 Ill	10
Oltronix Co 235 Underwood Dr Atlanta 5 Ga	3
Optron Corp	
3536 State St Santa Barbara Calif Optium Eng'g Co	21
2017 Willow St Grand Prairie Texas Oregon Electronic Mfg Co	6
2105 S E 6 Ave Portland 14 Ore	3
Oster Mfg Co John 1 Main St Racine Wis	
Otis Elevator Co Electronic Div	39
	39
35 Ryerson St Brooklyn 5 NY 2-3-4-6-10-15-16-17-	

D		
Packard Bell Electronics Corp 12333 W Olympic Blvd	Shannon Luminous Materials Co	Vacuum Tube Products Co
1 4 1 24 22 44 2	7356 Santa Monica Blvd	506 S Cleveland St Oceanside Calif 4
Panellit Inc 13-17-22-31	Hollywood 46 Calif 31	Valor Electronic Components Go 5808 Marilyn Ave Culver City Calif 2
7401 N Hamlin Ave	Shepard Labs Inc	Vanguard Electronics Co
Skokie III 1-3-4-9-10-11-17-22	480 Morris Ave Summit NJ 16-22-23-30-31-33-34	3384 Motor Ave Los Angeles 34 Calif 1
PCA Electronics Inc	Signalite Inc	Vanor Heating Corp
16799 Schoenborn St Sepulveda Calif 6-13	37 Neptune Hwy Neptune NJ 6	80 E Jackson Blvd Chicago 4 Ill 3
Pentron Corp	Simplex Equipment Corp	Vapor Recovery Systems Co
777 S Tripp Ave Chicago 24 III 50	55 La France Ave Bloomfield NJ 3	2820 N Alameda St Compton Calif
Performance Measurements Co	Skiatron Electronics & TV Corp 1-2-3-4-6-9-	Vector Electronic Co
15301 W McNichols Rd Detroit 35 Mich 4	180 Varick St 10-11-12-16-17-18-19-20-21-22-	3352 San Fernando Rd
Philbrick Researches Inc George A	New York 14 NY 23-24-27-29-30-31-33-34-	Los Angeles 65 Calif
230 Congress St Boston 10 Mass 2-3-15-30	42-43-44-45-46-48	Vectron Inc
Philco Corp Govt & Industrial Div 4700 Wissahickon Ave	Smith Inc Herman H	Total Trapelo Ru Villemani or India
Philadelphia 44 Pa 17-20	2326 Nostrand Ave Brooklyn 10 NY 5	Victor Adding Machine Co 3900 N Rockwell St Chicago 18 III 33-34-3
Photocircuits Corp	Solartron Electronic Group Ltd	Vitro Corp of America
31 Sea Cliff Ave Glen Cove NY 5-19	Queens Rd	261 Madison Ave New York 16 NY 3-4-1
Photographic Analysis Inc	Thames Ditton Surrey England 2-3-16-17	Wagner Co H A
13273 Ventura Bivd N Hollywood Calif 16-17	Soroban Eng'g Inc Box 338	14707 Keswick St Van Nuys Calif
Photron Instrument Co	Melbourne Fla 11-12-17-20-22-31-34-38-47-50	Waldorf Instrument Co
6516 Detroit Ave Cleveland 2 Ohio 2	Southern Instruments Computer Div	Div F C Huyck & Sons Park Ave
l'lastic Accessories Inc	Frimley Rd Camberley	Huntington Station NY 3-6-17-22-3
91 Mercer St New York 12 NY 35	Surrey England 2-3-4-10-11-17-30-38	Walkirt Co
Polarad Electronics Corp	Spivey Inc James S	141 W Hazel St Inglewood 3 Calif 9-17-2
43-20 34 St Long Island City 1 NY 12 Polyphase Instrument Co	4908 Hampden Lane Washington 14 DC 12	Wang Labs Inc
	Stancil-Hoffman Corp	37 Hurley St Cambridge 41 Mass 4-10-11-17-2
Pomona Electronics Co	921 N Highland Ave Hollywood 38 Calif 50	Cambridge 41 Mass 4-10-11-14-2 Warren Corp J C
1126 W 5 Ave Pomona Calif 5	Standard Record Mfg Co	21 Hanse Ave Freeport NY 28-4
Potter Instrument Co	70 N San Gabriel Blvd Pasadena 8 Calif 50	Westbury Electronics Inc
115 Cuttermill Rd Great Neck NV 11-27-28	Standard Register Co 626 Albany St Dayton 1 Ohio 11-22	300 Shames Dr Westbury NY
Frintioid Corp	626 Albany St Dayton 1 Ohio 11-22 Staplex Co	West Coast Research Corp 2-3-8-9-16-17-2
93 Mercer St New York 12 NY 35	775 5 Ave Brooklyn 32 NY 40	2371½ Westwood Blvd 23-26-30-31-42-4
Production Research Corp	Stavid Eng'g Inc	Los Angeles 64 Calif 45-46-47-
Thornwood NY 2-14-16 Pye Canada Ltd	U S Route 22 Plainfield NJ 8-10-11	Western Electronic Co
82 Northline Rd	Steward Mfg Co D M	717 Dexter Ave Seattle 9 Wash
TT- 1 10 0 1 1	Chattanooga Tenn 26	Westinghouse Electric Corp Box 284 Elmira NY
Radiation Counter Labs Inc	Stewart Warner Electronics Div	Westinghouse Electric Corp
5121 W Grove St Skokie III 4-15	1300 N Kostner Ave 2-3-6-13-16-17-	P O Box 868 Pittsburgh 30 Pa 4-1
Radiation Inc	Chicago 51 Ill 22-26-27-31-42-46	Weston Electrical Instrument Corp
P O Box 37 Melbourne Fla 4-10-11-18-20-33	Stoelting Co C H	Sub Daystrom Inc
Radio City Products Co	424 N Homan Ave Chicago 24 III 26 Stromberg-Carlson Div General	614 Frelinghuysen Ave Newark 12 NJ
Centre & Glendale Sts Easton Pa 39	Dynamics Corp 1895 Hancock St	Westronics Inc
Radio Corp of America Commercial	San Diego 12 Calif 31-33	3605 McCart Ft Worth Texas
Electronic Products Camden 2 NJ 6-17-22-31-33-34-35-45-50	Stromberg-Carlson Div General	Whitewater Electronics Inc 136 Main St Whitewater Wis
Radio Corp of America	Dynamics Corp 100 Carlson Rd	Wiancko Eng'g Co
415 S 5 St Harrison NJ 27-49	Rochester 3 NY 2-17-31-49	255 Halstead St
Ransom Research	Sturrup Inc 50 Silver St Middletown Conn 13	Pasadena Calif 4-11-16-17-18-
323 W 7 St.	Sylvania Electric Products Inc	Wright Equipment Co
San Pedro Calif 2-5-6-9-13-16-17-22-23 Raytheon Mfg Co	1740 Broadway	128 N Main St Milltown NJ
Receiving & Cathode Ray Tube Operations	New York 19 NY 6-17-22-31-49	Zoomar Inc 55 Sea Cliff Ave Glen Cove NY
Tabe Operations	Systron Corp	DO DEE CHI NYC GICH COYC 111
bb Chapel St Newton 58 Mass 49		
55 Chapel St Newton 58 Mass 49 Raytheon Mfg Co	2055 Concord Blvd	20.—CONNECTORS &
Raytheon Mfg Co 100 River St Waltham 54 Mass 13	2055 Concord Blvd Concord Calif 4-9-10-11-18	20—CONNECTORS &
Raytheon Mfg Co 100 River St Waltham 54 Mass Rea Co J B	2055 Concord Blvd Concord Calif 4-9-10-11-18 Taller & Cooper	20—CONNECTORS & TERMINALS
Raytheon Mfg Co 100 River St Waltham 54 Mass Rea Co J B 1723 Cloverfield Blvd	2055 Concord Blvd Concord Calif 4-9-10-11-18	TERMINALS
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Alcoa Bldg Pittsburgh 19 Pa 19	Connector Corp 6025 N Keystone Ave	Hermetic Connector Corp 481 Washington St Newark NJ 8-10-14
American Communications Corp 280 Broadway New York 17 NY 3-7-23-25	Chicago 30 Ill 5-12-18-21	Hermetic Seal Corp
American Lava Corp Subs Minn Mining	Conn Telephone & Electric Corp 70 Brittania St Meriden Conn 13	29 S 6 St Newark 7 NJ 1-10-14 Hobson Bros
& Mfg Cherokee Blvd & Mfrs Rd Chattanooga 5 Tenn 7	Connector Corp of America	4940 W Lawrence Ave Chicago 30 Ill 2-11-28
American Machine & Foundry Co	3223 Burton Ave Burbank Calif 7 Consolidated Electrodynamics Corp	Hubbell Inc Harvey State St & Bostwick Ave
Defense Products Group 1101 N Royal St Alexandria Va 9-11-19	300 N Sierra Madre Villa	Bridgeport 2 Conn 12-17-21-23-24-25
Amphenol Electronics Corn	Pasadena Calif Constantin & Co L L	Ideal Industries Inc 5127 Park Ave Sycamore Ill 23
1830 S 54 Ave 1-3-4-6-7-8-10-11-14-15-16- Chicago 56 Ill 17-19-20-21-22-23-24-25	Route 46 Lodi NJ 10	Industrial Hardware Mfg Co
AMP Inc Chemical Dielectrics Div	Continental Connector Corp 34-63 56 St 6-8-10-11-17-19-	109 Prince St New York 12 NY 2-3-5-12-21
155 Park St Elizabethtown Pa 23 AMP Inc	Woodside 77 NY 20-21-23-25	Industrial Products Co
Harrisburg Pa 23	Continental Electronics Ltd 302 Oakland St Brooklyn 22 NY 7-13	Div Danbury-Knudsen Box 148 Danbury Conn 7-22
Andrew California Corp 941 E Marylind Ave	Corning Glass Works Corning NY 10-11	Danbury Conn 7-22 Insuline Corp of America
Claremont Calif 1-3-6-7-8-99	Dage Electric Co 67 N 2 St 6-7-8-10-14-	186 Granite St Manchester NH 16
Andrew Corp	Beech Grove Ind 17-22-25	Javex PO Box 646
Anton Electronic Labs	Dante Electric Mfg Co Bantam Conn 5-6-23	Redlands Calif 3-4-6-7-8-19-23
1226 Flushing Ave 1-7-10-11-12-	DeJur-Amsco Corp	Jerrold Electronics Corp 23 & Chestnut Sts Philadelphia 3 Pa 7-22-24
Apparatus Development Co	Electronic Sales Div 1-6-7-8-10-11- 45-01 Northern Blvd 12-14-17-19-	Johnson Co E F
115 Main St Wethersfield 9 Conn 25 Ark-Les Switch Corp	Long Island City 1 NY 20-21-23-25	Waseca Minn 17-23 Jones Div Howard B Cinch Mfg Co
51 Water St	Dielectric Products Eng'g Co	1026 S Homan Ave Chicago 24 Ill 19-24
Watertown 72 Mass 17-21-23-24-25	Raymond Me 7-22 Deutsch Co	Jones Electronics Hiram 2313 W Olive St Burbank Calif 8
Armel Electronics Inc 840 5 Ave Brooklyn 32 NY 6-11-14-17-19	7000 Avalon Blvd	Joy Mfg Co Electrical Products Div
Auburn Spark Plug Co	Los Angeles 3 Calif 1-10-17 Dialight Corp	1201 Macklind Ave 6-8-10-11-14- St Louis 10 Mo 15-19-28
89 York St Auburn NY Audio Accessories	60 Stewart Ave	Joy Mfg Co
Amityville NY	Brooklyn 37 NY 14-15-16 Dittmore-Freimuth Corp	333 Oliver Bldg 1-2-6-7-8-9-10-11-12- Pittsburgh 22 Pa 14-15-17-19-20
Audio Sears Corp Shepard Hill Rd Roxbury NY 4-17	2517 E Norwieh St	Keller Tool Div Gardner-Denver Co
Automatic Metal Products Corp	Milwaukee 7 Wisc 7-8-10-14 Dossert Mfg Corp	1333 Fulton St Grand Haven Mich 23 Kennedy Industries
323 Berry St Brooklyn 11 NY 7-19-22-25 Automatic & Precision Mfg Co	249 Huron St Brooklyn 62 NY 6-14-19-23	6808 Vista del Mar Playa del Rey Calif 21-23
252 Hawthorne Ave Yonkers NY 14-19	Dow-Key Co PO Box 57 Warren Minn 7	Keystone Electronics Corp 423 Broome St New York 13 NY 5-24
Avia Products Co 7266 Beverly Blvd	Dudek & Co R C	423 Broome St New York 13 NY 5-24 Kliegl Bros
Los Angeles 36 Calif	407 N Maple Dr Beverly Hills Calif 6-10-12-14-17-21-25	321 W 50 St New York 19 NY 5-6 Koiled Kords Inc
Barker & Williamson Inc	Du Mont Labs Inc Allen B	1565 Dixwell Ave New Haven 14 Conn 1-14
Bead Chain Mfg Co	760 Bloomfield Ave Clifton NJ 1-7 Duro Specialty Co	Kolton Electric Mfg Co
110 Mountain Grove St Bridgeport 5 Conn 13 Bendix Aviation Corp	811 Boston St Lynn Mass 6	123 NJ Railroad Ave Newark 5 NJ 6-23 Krueger & Hudepohl
1104 Fisher Bldg Detroit 2 Mich 1 C 14	Eagle Electric Mfg Co 23-10 Bridge Plaza S	1041 Evans St
Berg Mig Corp	S Long Island City 1 NY 12-17	Cincinnati 4 Ohio 6-8-11-19-28 Lab-Tronics Inc
142 Reno St New Cumberland Pa 21-23-24 Bergen Wire Rope Co	Elco Corp M St below Erie Ave	3656 N Lincoln Ave
455 Gregg St Lodi NJ Birnbach Radio Co	Philadelphia 24 Pa 6-17-21-23-24-25	Chicago 13 Ill 3-4-5-6-8-10-13-16-17-18-25 Lerco Electronics Inc
145 Hudson St 2-4-5-6-8-11-12-13-	Electrical & Physical Instrument Corp	501 S Varney St Burbank Calif 8-21
New York 13 NY 16-17-18-19-23-24 Blaco Mfg Co	42-19 27 St Long Island City 1 NY 7	Macson Co 3260 Motor Ave
6541 Euclid Ave Cleveland 3 Ohio	Electrical Specialty Co	Los Angeles 34 Calif 6-8-16-18
Blonder-Tongue Laboratories	158 11 St San Francisco 3 Calif 23 Electric Terminals Corp	Malco Tool & Mfg Co 4025 W Lake St Chicago 24 Ill 3-12-21-23
Breeze Corps	2019 Center St Cleveland 13 Ohio 23	Mandex Mfg Co
700 Liberty Ave Union NJ Buchanan Electrical Products Corp	Enflo Corp Rte 38 at Airport Circle	2608 W 16 St Chicago 8 III 2-4-7-8-16-17-18-21-22
225 Route 22	Pennsauken 11 NJ 3-8-11-17-25 Entron Inc	Mayfair Molded Products Corp
Hillside NJ Buggie Inc H H 6-11-17-19-20-23	4902 Lawrence St Bladensburg Md 7-22-23	3700 N Rose St Franklin Park Ill 2-11 Metal Specialty Products Corp
PO Box 817 6-7-8-10-11-14-17-	Farnsworth Electronics Co Div IT&T	27-01 Brooklyn Queens Expressway W
Toledo 1 Ohio 19-20-21-22-25 Burndy Corp	3702 E Pontiac St Ft Wayne Ind 10-36 Flexonics Corp	Woodside 77 NY 19 Methode Mfg Corp
Omaton Div 5-6-7-8-9-14	1315 S 3 Ave Maywood Ill 1	7447 W Wilson Ave
Norwalk Conn 19-20-23-24 Cable Electric Products	Fluorocarbon Products Inc Div US Gasket Co 602 N 10 St 3-7-8-11-12-13-14-	Chicago 31 Ill 5-6-17-21 Micarta Fabricators Inc
234 Daboll St 1-3-6-7-13-	Camden 1 NJ 17-18-19-21-25	5324 N Ravenswood Ave
Providence 7 RI 14-16-17-19	Frankel Connector Co 27 Vestry St New York 13 NY 6-19-23	Chicago 40 Ill 2-5-12-21 Microdot Inc
Cal-Connector Co 7360 Varna Ave	Garde Mfg Co	220 Pasadena Ave
N Hollywood Calif 1-3-6-13-14-20-22	588 Eddy St Providence 3 RI 8-10-17-21-23-24-25	S Pasadena Calif 7-10-17-21-22-25 Millen Mfg Co James
Cal-Met Electronics 5860 Spring Oak Dr	Gee-Lar Mfg Co	150 Exchange St Malden 48 Mass 11
Hollywood 28 Calif	418 S Wyman St Rockford Ill 3 General Cement Mfg Co Div Textron Inc	Minnesota Mining & Mfg Co 900 Fauquier Ave St Paul 6 Minn 23
Cambridge Thermionic Corp 445 Concord Ave Cambridge 38 Mass 17-23	400 S Wyman St	Molding Corp of America
Cannon Electric Co	Rockford Ill 3-5-6-13-14-16-17 General Radio Co	58 Weybosset St Providence 3 RI 8-10-11-19-20
Eastern Div 1-2-3-4-5-6-7-8- Pingree & Leavitt Sts 10-11-14-15-16-17-19-	275 Massachusetts Ave	Mosley Electronics Inc
Salem Mass 21-22-23-24-25	Cambridge 39 Mass 7 General RF Fittings Inc	8622 St Charles Rock Rd St Louis 14 Mo 3 Mutual Electronic Industries Corp
Cannon Electric Co 1-4-5-6-7-8-10-11-12-13- 3208 Humboldt St 14-15-16-17-19-20-	702 Beacon St 3-6-7-8-10-11-12-13-14-15-	85 Beechwood Ave
Los Angeles 31 Calif 21-22-23-24-25	Boston 15 Mass 17-19-20-21-22-23-25 Good-All Electric Mfg Co	New Rochelle NY 1-4-6-7-10-11-13-19 National Tel-Tronics Corp
Carol Electronics Corp 315 W Stephen St Martinsburg W Va 4-19	Good-All Bldg Ogallala Nebr 14-22	52 St Casimir Ave Yonkers NY 2-3-5-7-11-12
Central Porcelain Co	Gorn Electric Co	Nichols Products Co 325 W Main St Moorestown NJ 7-22-25
511 Railroad St Columbiana Ohio 23 Century Lighting Inc	Stamford Conn 10-11-14-17-20-21-25 Graphik Circuits Div Cinch Mfg Corp	North Electric Co
521 W 48 St New York 36 NY 19-94	200 S Turnbull Canyon Rd	553 S Market St Galion Ohio 6-25 NYT Electronics Inc
Chester Morton Electronics Corp 10 St & Morton Ave Chester Pa 13-20	La Puente Calif 6-21 Gremar Mfg Co	2979 N Ontario St Burbank Calif 21
Cinch Mfg Corp	7 North Ave \$-4-7-10-11-14-16-	Pacific Electricord Co 3217 Exposition Pl
1026 S Homan Ave 3-5-6-7-8-16-17-18-19- Chicago 24 Ill 20-21-22-23-24-25	Wakefield Mass 17-20-21-22-25 Gries Reproducer Corp	Los Angeles 18 Calif 6-17
Circon Component Co.	125 Beechwood Ave New Rochelle NY 6-7	Painton & Co Ltd c/o British Electronic Sales Co Box 132
Santa Barbara Municipal Airport 2-3-4-5-6- Goleta Calif 8-11-16-17-19-21-22-24-25	Gruen Industries Inc Time Hill Cincinnati 6 Ohio 7	Oakland Gardens 64 NY 4-17-19-25
Clark Controller Co	Cincinnati 6 Ohio 7 Gulton Industries Inc	Permite Mfg Co 444 Lake Shore Dr Chicago 11 Ill 2-3-5-6-12
1146 E 152 St Cleveland 10 Ohio · 6	212 Durham Ave Metuchen NJ 7-10-25	Petroff Corp Peter A
Coaxial Connector Co 37 N 2 Ave 3-6-7-8-10-11-12-13-14-	Hallett Mfg Co 1601 W Florence	127 Water St New York 5 NY Plastic Mold & Eng'g Co
Mt Vernon NY 15-17-20-21-22-23-25 Commercial Radio Sound Corp	Inglewood Calif 6-7-8-9	157 Clifford St Providence RI 17
652 1 Ave New York 16 NY 7	Heldor Mfg Corp 238 Lewis St Paterson NJ 10	Pomona Electronics Co 1126 W 5 Ave Pomona Calif 6-17

		Maratuanias Co
Potter Aeronautical Corp	Winchester Electronics Inc	Autel Electronics Co P O Box 225 Linden NJ 36
P O Box 532 Union NJ 6 Prodelin Inc	Willard Rd 6-10-11-14-17- Norwalk Conn 19-20-21-25	Automatic Coil Co
307 Bergen Ave Kearny NJ 6-7	Winder Aircraft Corp of Florida	415 Bedford Ave Brooklyn II NY
Progress Electronics Co	P O Box 2397 Drane Field	Automatic Electric Co 1033 W Van Buren St Chicago 7 Ill 33-40-41
296 Broadway New York 7 NY 1-7-22	Lakeland Fla 5-6-16	Automatic & Precision Mfg CO
Pye Canada Ltd 82 Northline Rd	Wisconsin Porcelain Co 121 Lincoln St Sun Prairie Wisc 23	252 Hawthorne Ave Yonkers N1
Toronto 16 Ontario Canada 6-7	Workman TV Inc	Bead Chain Mfg Co
The Pyle-National Co	309 Queen Anne Rd Teaneck NJ 18	110 Mountain Grove St Bridgeport 5 Conn 13-31-35
1334 N Kostner Ave		Book's Inc
Chicago 51 Ill 6-8-9-14-19-20 Raypar Inc	20A-CONNECTORS &	298 E 5 St St Paul 1 Minn 40-41
7800 W Addison St Chicago 34 III 12	TERMINALS	Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich 28
Raytheon Mfg Co Ceramic Sales	IERMINALS	Page Mfg Corn
Foundry Ave Waltham Mass 7-8-10-11-20-25	Connectors, tube 26	142 Reno St New Cumberland Pa 30
Remler Co 2101 Bryant St	Connectors, twin line 27	Dawner Engineering Corn
San Francisco Calif 4-11-14-16-19	Connectors, waterproof 28	2320 S Tibbs Ave Indianapolis 41 Ind Birnbach Radio Co
Revere Corp of America	Connectors, wire 29	145 Hudeon St
Wallinford Conn 6-14 Richards Electrocraft Inc	Patch cords	New York 13 NY 29-31-35-39-40
3739 N Kedzie Ave Chicago 18 Ill 13-16-17-25	Plugs 31	Brilhart Plastics Corp
Robinson Machine Works	•	Old Country Rd Mineola NY 36 British Electronic Sales
802 E 8 St New Albany Ind 7-8-9-17-21	TERMINALS & JACK PANELS	Dow 132 Oakland Gardens 64 N I 30-55
Rodale Mfg Co 6 & Minor Sts Emmaus Pa 6-12-17	Headers 32	Ruchanan Electrical Products Corp
Roflan Co	Jack panels	ZZD ROUGE ZZ IIIII
Topsfield Mass 3-13-16-17	Junction boxes 34	Buggie Inc H H P O Box 817 Toledo 1 Ohio 28-30
Sangamo Electric Co Springfield Ill 24	Terminals35	Dundy Floatronics Corn
Springfield Ill 24 Scintilla Div Bendix Aviation Corp	Terminal, hermetically sealed 36	171 Fabyan Pl Newark 12 NJ
Delaware Ave		Burndy Corp Omator Div Norwalk Conn 28-29-35
Sidney NY 1-6-11-14-17-19-20-23	Terminals, snap 37	Cable Floatric Products
Seals Ltd 1010 Mission St	Terminals, solderless 38 Terminals, standoff 39	234 Daboll St Providence ( RI
S Pasadena Calif 1-10-14-17-20-25		Cal-Connector Co 7360 Varna Ave N Hollywood Calif 31
Smith Inc Herman H	Terminal boards	Cambridge Thermionic Corp
2326 Nostrand Ave 2-3-5-6-7-8-12-13 Brooklyn 10 NY 14-16-17-18-23-24-25	terminal Strips	445 Concord Ave
Stimpson Co Edwin B	Abalon Precision Mfg Corp	
70 Franklin Ave Brooklyn 5 NY 6	540 Casanova St New York 59 NY 34	Cannon Electric Co Eastern Div Pingree & Leavitt Sts Salem Mass 28
Stone City Machine & Tool Co 1206 7 St Bedford Ind 24	Accurate Electronics Corp 169 S Abbe Rd W Elyria Ohio 31-33-35-40-41	Cannon Electric Co
1206 7 St Bedford Ind 24 Stupakoff Div Carborundum Co	Adler Electronics Inc	2208 Humboldt St
Latrobe Pa 8-10	1 LeFevre Lane New Rochelle NY 33	Los Angeles 31 Calli
Switcheraft Inc	Advanced Vacuum Products Inc 430 Fairfield Ave Stamford Conn 35	Carter Parts Co 3401 W Madison St Skokie III 31
1328 N Halsted St Chicago 22 III 4-6-13-16-17 Techniques Inc	Aerolite Electronics Corp	
52 Jackson Ave Hackensack NJ 21	507 26 St Union City NJ 30-33-34-35-39-40-41	2601 N Howard St Philadelphia 33 1 a
Telex	Aeronautical Electric Co	Century Electronics Co 34 Oleander St Cocoa Fla
1633 Eustis St St Paul 1 Minn 25	5656 Northwest Hwy Chicago 30 Ill 29-31 Aeronautical Electronics Inc	O t Lighting Inc
Tenna Mfg Co 7580 Garfield Blvd Cleveland 25 Ohio 7	P O Box 6527 Raleigh NC 34	521 W 43 St New York 30 141
Thomas & Betts Co	Aircraft & Electronic Specialties	Ceramaseal Inc P O Box 25 New Lebanon Center NY 36
36 Butler St Elizabeth NJ 6-7-9-23	22 S Green St Brownsburg Ind 34	Cinch Mig Corp
Tru-Connector Corp	Aircraft Radio Corp Boonton NJ 40	1026 S Homan Ave
416 Union St Lynn Mass 3-7-10-11-14-17-19-20-22-25	Airflo Instrument Co	Chicago 24 Ill
TV Hardware Mfg Co Div Textron Inc	53 Addison Rd Glastonbury Conn 31-33	Circon Component Co Santa Barbara Municipal Airport 27-29-35
400 S Wyman St Rockford Ill 3	Air Transport Mfg Co 1114 N Sycamore Ave	Santa Barbara Municipal 27-29-35 Goleta Calif
Ucinite Co Div United-Carr Fastener Corp 459 Watertown St	Los Angeles 38 Calif 34-40	
Newtonville 60 Mass 2-5-8-13-21	A-K Mfg Co	Coaxial Connector Co 37 N 2 Ave Mt Vernon NY 27-28-29-30-31-33
Unimatic Corp	115 S Northwest Hwy Barrington III 30 Alden Products Co	Collins Radio Co 855 35 St N E Cedar Rapids Iowa 33
Sherwood Lane Caldwell NJ 6	123A N Main St	
Union Electronics & Machine Corp Moulton & Monroe St	Brockton Mass 26-27-29-30-31-35-40	260 E 143 St New 10th of 11-
Georgetown Mass 6-7-10-11-17-20-22-25	Allen-Bradley Co 136 W Greenfield Ave	Column Machine Co 87 State St Lynn Mass 35
United-Carr Fastener Corp	Milwaukee 4 Wisc 35-39-41	
Cambridge 12 Man	Allied Allegri Co	AGOS NO POSSIBLE AVE UNICARO OF ALL
Uniwave Inc 2 Marine St Farmingdale NY 8	141 River Rd Nutley 10 NJ 40	Conn Telephone & Electric Conp 33
US Components Inc	American Communications Corp 280 Broadway New York 17 NY 33-40	Consolidated Productions Inc
454 E 148 St	American Insulator Corp	Broward Int'l Airport It Indiana
New York 55 NY 6-10-14-17-19-21-23-25	New Freedom Pa 40	Constantin & Co L L 29-36
US Instrument Corp P O Bex 33E Charlottesville Pa 13-24	American Lava Corp Subs Minn Mining & Mfg Cherokee Blvd & Mfrs Rd	Route 46 Lodi NJ Continental Connector Corp
US Stoneware Co Alite Div	Chattanooga 5 Tenn 35-36-39-40-41	34-63 56 St
Orville Ohio 10	American Machine & Foundry Co Defense	Woodside 77 NY
Vaco Products Co 317 E Ontario St Chicago 11 Ill 23	Products Group 1101 N Royal St	and Onkland St Brooklyn 22 ***
Viking Industries Inc	Alexandria Va Amphenol Electronics Corp	
21343 Roscoe Blvd	1830 S 54 Ave	3266 N 33 St Milwaukee 10 11.5
Canoga Park Calif 10-11-14-17-20-21-25	Chicago 50 Ill 26-27-28-29-31-32-40	Dale Boisen Co 2928 Nebraska Ave Santa Monica Calif 40
Wade Electric Products Co Box 271 Sturgis Mich 6-15	AMP Inc Harrisburg Pa 38	Dante Electric Mfg Co 29-35-38
Waldom Electronics Inc	Anchor Products Co	
4625 W 53 St Chicago 32 Ill 2-12-13-18-23	2712 W Montrose Ave Chicago 18 Ill 34	Bantam Conn Dayton Aviation Radio & Equipment Corp
Walsco Electronics Mfg Co		
	Anchor Specialty Mfg Co	R R 3 Troy Unio
17 10 00 07 05	Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 40	R R 3 Troy Unio
Rockford Ill 17-18-23-24-25	Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 40 Anton Electronic Labs 1226 Flushing Ave	R R 3 Troy Onlo Decatur Electronic Industries Corp 203 Orinoco Dr Brightwaters LI NY 30-40
Rockford III 17-18-23-24-25 Waltham Horological Corp 395 Lynnway 3-4-6-7-8-10-13	Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 40 Anton Electronic Labs 1226 Flushing Ave Brooklyn 6 NY 28-31-36-41	Decatur Electronic Industries Corp 203 Orinoco Dr Brightwaters LI NY 30-40 Deutsch Co 7000 Avalon Blvd Los Angeles 3 Calif 31
Rockford III 17-18-23-24-25 Waltham Horological Corp 395 Lynnway 3-4-6-7-8-10-13 Lynn Mass 14-16-17-20-22-25	Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 40 Anton Electronic Labs 1226 Flushing Ave Brooklyn 6 NY 28-31-36-41 Ark-Les Switch Corp	R R 3 Troy Onto Decatur Electronic Industries Corp 203 Orinoco Dr Brightwaters LI NY 30-40 Deutsch Co 7000 Avalon Blvd Los Angeles 3 Calif 31 Diamonite Products Mfg Co 217 4 St N E Canton 2 Ohio 39
Rockford III 17-18-23-24-25  Waltham Horological Corp 395 Lynnway 3-4-6-7-8-10-13 Lynn Mass 14-16-17-20-22-25  Waltham Screw Co	Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 40 Anton Electronic Labs 1226 Flushing Ave Brooklyn 6 NY 28-31-36-41 Ark-Les Switch Corp 51 Water St Watertown 72 Mass 29-31-35-38-40-41	PR R 3 Troy Onio Decatur Electronic Industries Corp 203 Orinoco Dr Brightwaters LI NY 30-40 Deutsch Co 7000 Avalon Blvd Los Angeles 3 Calif 31 Diamonite Products Mfg Co 217 4 St N E Canton 2 Ohio 39
Rockford III 17-18-23-24-25  Waltham Horological Corp 395 Lynnway 3-4-6-7-8-10-13  Lynn Mass 14-16-17-20-22-25  Waltham Serew Co 77 Rumferd Ave Waltham 54 Mass 7	Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 40 Anton Electronic Labs 1226 Flushing Ave Brooklyn 6 NY 28-31-36-41 Ark-Les Switch Corp 51 Water St Watertown 72 Mass 29-31-35-38-40-41 Armel Electronics Inc	Per R R 3 Troy Onlo Decatur Electronic Industries Corp 203 Orinoco Dr Brightwaters LI NY 30-40 Deutsch Co 7000 Avalon Blvd Los Angeles 3 Calif 31 Diamonite Products Mfg Co 217 4 St N E Canton 2 Ohio 39 Dittmore-Freimuth Corp 2517 E Norwich St Milwaukee 7 Wis 33
Rockford III 17-18-23-24-25  Waltham Horological Corp 395 Lynnway 3-4-6-7-8-10-13 Lynn Mass 14-16-17-20-22-25  Waltham Screw Co	Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 40 Anton Electronic Labs 1226 Flushing Ave Brooklyn 6 NY 28-31-36-41 Ark-Les Switch Corp 51 Water St Watertown 72 Mass 29-31-35-38-40-41 Armel Electronics Ino 840 5 Ave Brooklyn 32 NY 35-39-40-41	PR R 3 Troy Onlo Decatur Electronic Industries Corp 203 Orinoco Dr Brightwaters LI NY 30-40 Deutsch Co 7000 Avalon Blvd Los Angeles 3 Calif 31 Diamonite Products Mfg Co 217 4 St N E Canton 2 Ohio Dittmore-Freimuth Corp 2517 E Norwich St Milwaukee 7 Wis Dossert Mfg Corp 249 Huron St Brooklyn 62 NY 35-38
Rockford III 17-18-23-24-25  Waltham Horological Corp 395 Lynnway 3-4-6-7-8-10-13 Lynn Mass 14-16-17-20-22-25  Waltham Screw Co 77 Rumford Ave Waltham 54 Mass 7  Walworth Co 60 E 42 St New York 17 NY 7-14-22  Westbury Electronics Inc	Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 40 Anton Electronic Labs 1226 Flushing Ave Brooklyn 6 NY 28-31-36-41 Ark-Les Switch Corp 51 Water St Watertown 72 Mass 29-31-35-38-40-41 Armel Electronics Inc 840 5 Ave Brooklyn 32 NY 35-39-40-41 Artisan Metal Works Co 11400 Madison Ave Cleveland 2 Ohio 31	R R 3 Troy Onlo Decatur Electronic Industries Corp 203 Orinoco Dr Brightwaters LI NY 30-40 Deutsch Co 7000 Avalon Blvd Los Angeles 3 Calif 31 Diamonite Products Mfg Co 217 4 St N E Canton 2 Ohio 39 Dittmore-Freimuth Corp 2517 E Norwich St Milwaukee 7 Wis 33 Dossert Mfg Corp 249 Huron St Brooklyn 62 NY 35-38
Rockford III 17-18-23-24-25  Waltham Horological Corp 395 Lynnway 3-4-6-7-8-10-13 Lynn Mass 14-16-17-20-22-25  Waltham Screw Co 77 Rumferd Ave Waltham 54 Mass 7  Walworth Co 60 E 42 St New York 17 NY 7-14-22  Westbury Electronics Inc 300 Sharnes Dr Westbury NY 7-8-22	Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 40 Anton Electronic Labs 1226 Flushing Ave Brooklyn 6 NY 28-31-36-41 Ark-Les Switch Corp 51 Water St Watertown 72 Mass 29-31-35-38-40-41 Armel Electronics Ino 840 5 Ave Brooklyn 32 NY 35-39-40-41 Artisan Metal Works Co 11400 Madison Ave Cleveland 2 Ohio 31 Associated Eng'g Corp	PR R 3 Troy Onlo Decatur Electronic Industries Corp 203 Orinoco Dr Brightwaters LI NY 30-40 Deutsch Co 7000 Avalon Blvd Los Angeles 3 Calif 31 Diamonite Products Mfg Co 217 4 St N E Canton 2 Ohio Dittmore-Freimuth Corp 2517 E Norwich St Milwaukee 7 Wis Dossert Mfg Corp 249 Huron St Brooklyn 62 NY 35-38 Dudek & Co R C 407 N Maple Dr Beverly Hills Calif 31
Rockford III 17-18-23-24-25  Waltham Horological Corp 395 Lynnway 3-4-6-7-8-10-13 Lynn Mass 14-16-17-20-22-25  Waltham Screw Co 77 Rumford Ave Waltham 54 Mass 7  Walworth Co 60 E 42 St New York 17 NY 7-14-22  Westbury Electronics Inc 300 Shames Dr Westbury NY 7-8-22  Western Int'l Co	Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 40 Anton Electronic Labs 1226 Flushing Ave Brooklyn 6 NY 28-31-36-41 Ark-Les Switch Corp 51 Water St Watertown 72 Mass 29-31-35-38-40-41 Armel Electronics Ino 840 5 Ave Brooklyn 32 NY 35-39-40-41 Artisan Metal Works Co 11400 Madison Ave Cleveland 2 Ohio 31 Associated Eng'g Corp 65 Kent St Brookline 46 Mass 30	Part of the corp 203 Orinoco Dr Brightwaters LI NY 30-40 Deutsch Co 7000 Avalon Blvd Los Angeles 3 Calif 31 Diamonite Products Mfg Co 217 4 St N E Canton 2 Ohio 39 Ditmore-Freimuth Corp 2517 E Norwich St Milwaukee 7 Wis 33 Dossert Mfg Corp 249 Huron St Brooklyn 62 NY 35-38 Dudek & Co R C 407 N Maple Dr Beverly Hills Calif Duralith Corp 1025 Race St Philadelphia 7 Pa 40-41
Rockford III 17-18-23-24-25  Waltham Horological Corp 395 Lynnway 3-4-6-7-8-10-13 Lynn Mass 14-16-17-20-22-25  Waltham Screw Co 77 Rumferd Ave Waltham 54 Mass 7  Walworth Co 60 E 42 St New York 17 NY 7-14-22  Westbury Electronics Inc 300 Sharnes Dr Westbury NY 7-8-22  Western Int'l Co 45 Vesey St 2-4-6-7-8-13- New York 7 NY 14-15-16-20-22	Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 40 Anton Electronic Labs 1226 Flushing Ave Brooklyn 6 NY 28-31-36-41 Ark-Les Switch Corp 51 Water St Watertown 72 Mass 29-31-35-38-40-41 Armel Electronics Ino 840 5 Ave Brooklyn 32 NY 35-39-40-41 Artisan Metal Works Co 11400 Madison Ave Cleveland 2 Ohio 31 Associated Eng'g Corp	R R 3 Troy Onlo Decatur Electronic Industries Corp 203 Orinoco Dr Brightwaters LI NY 30-40 Deutsch Co 7000 Avalon Blvd Los Angeles 3 Calif 31 Diamonite Products Mfg Co 217 4 St N E Canton 2 Ohio 39 Dittmore-Freimuth Corp 2517 E Norwich St Milwaukee 7 Wis Dossert Mfg Corp 249 Huron St Brooklyn 62 NY Dudek & Co R C 407 N Maple Dr Beverly Hills Calif Duralith Corp 1025 Race St Philadelphia 7 Pa 40-41 Eagle Electric Mfg Co
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Rockford III	Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 40  Anton Electronic Labs 1226 Flushing Ave Brooklyn 6 NY 28-31-36-41  Ark-Les Switch Corp 51 Water St Watertown 72 Mass 29-31-35-38-40-41  Armel Electronics Ino 840 5 Ave Brooklyn 32 NY 35-39-40-41  Artisan Metal Works Co 11400 Madison Ave Cleveland 2 Ohio 31  Associated Eng'g Corp 65 Kent St Brookline 46 Mass 30  Atlantic Research Corp 301 N Columbus St Alexandria Va 28  Atlas E-E Corp	R R 3 Troy Onlo Decatur Electronic Industries Corp 203 Orinoco Dr Brightwaters LI NY 30-40 Deutsch Co 7000 Avalon Blvd Los Angeles 3 Calif 31 Diamonite Products Mfg Co 217 4 St N E Canton 2 Ohio 39 Dittmore-Freimuth Corp 2517 E Norwich St Milwaukee 7 Wis 33 Dossert Mfg Corp 249 Huron St Brooklyn 62 NY 35-38 Dudek & Co R C 407 N Maple Dr Beverly Hills Calif 31 Duralith Corp 1025 Race St Philadelphia 7 Pa Eagle Electric Mfg Co 23-10 Bridge Plaza S Long Island City 1 NY Eastern Specialty Co 3617 N 8 St Philadelphia 40 Pa
Rockford III 17-18-23-24-25  Waltham Horological Corp 395 Lynnway 3-4-6-7-8-10-13 Lynn Mass 14-16-17-20-22-25  Waltham Screw Co 77 Rumford Ave Waltham 54 Mass 7  Walworth Co 60 E 42 St New York 17 NY 7-14-22  Westbury Electronics Inc 300 Shames Dr Westbury NY 7-8-22  Western Int'l Co 45 Vesey St 2-4-6-7-8-13 New York 7 NY 14-15-16-20-22  Wheaton Co T C Millville NJ 10	Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 40 Anton Electronic Labs 1226 Flushing Ave Brooklyn 6 NY 28-31-36-41 Ark-Les Switch Corp 51 Water St Watertown 72 Mass 29-31-35-38-40-41 Armel Electronics Ino 840 5 Ave Brooklyn 32 NY 35-39-40-41 Artisan Metal Works Co 11400 Madison Ave Cleveland 2 Ohio 31 Associated Eng'g Corp 65 Kent St Brookline 46 Mass 30 Atlantic Research Corp 901 N Columbus St Alexandria Va 28 Atlas E-E Corp 47 Prospect St Woburn Mass 35-40 Audio Accessories	R R 3 Troy Onlo Decatur Electronic Industries Corp 203 Orinoco Dr Brightwaters LI NY 30-40 Deutsch Co 7000 Avalon Blvd Los Angeles 3 Calif 31 Diamonite Products Mfg Co 217 4 St N E Canton 2 Ohio 39 Dittmore-Freimuth Corp 2517 E Norwich St Milwaukee 7 Wis 33 Dossert Mfg Corp 249 Huron St Brooklyn 62 NY 35-38 Dudek & Co R C 407 N Maple Dr Beverly Hills Calif 31 Duralith Corp 1025 Race St Philadelphia 7 Pa Eagle Electric Mfg Co 23-10 Bridge Plaza S Long Island City 1 NY

M St below Erie Ave	
Philadelphia 24 Pa 26-2	9-31
Electrical Industries 691 Central Ave Murray Hill NJ	36
691 Central Ave Murray Hill NJ Electric Terminals Corp	
2019 Center St Cleveland 13 Ohio 3 Elm Labs 10 Washington Ave	5-38
	0.41
Elzee Metal Products Co	0-41
775 39 St Brooklyn 32 NY 3 Emerson Plastics Corp	3-34
Emerson Plastics Corp Seabury Ave & Butler Pl Bronx 61 NY 4	0-41
Empire Electronics Co	30
166 River St Paterson 1 NJ Enflo Corp	
Rte 38 at Airport Circle Pennsauken 11 NJ 36-39-4	0-41
Engineered Electronics Co 506 E 1 St Santa Ana Calif	
Equipment & Service Co 6815 Oriole Dr Dallas 7 Texas 3	33
6815 Oriole Dr Dallas 7 Texas 3 Excellex Electronics Inc	1-34
475 Chestnut St Cedarhurst LI NY 3	5-41
Farnsworth Electronic Co Pacific Div 815 S San Antonio Rd Palo Alto Calif 3	6-39
Farnsworth Electronics Co Div IT&T 3702 E Pontiac St Ft Wayne Ind	
Ft Wayne Ind	36
Federal Screw Products Inc	
3917 N Kedzie Ave Chicago 18 III 35-38-4	0-41
Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd	
Clifton NJ	0-41
Feiner & Sons P 522 W 45 St New York 36 NY	34
522 W 45 St New York 36 NY Fisher & Crome 109 N Camac St Philadelphia 7 Pa 33-40	
riexonics Corp	0-41
1315 S 3 Ave Maywood III	26
Fluorocarbon Products Inc Div U S Gasket Co 602 N 10 St Camden 1 NJ 31-33-35-36-39	
	9-40
27 Vestry St New York 13 NY Freeway Washer & Stamping Co	38
4911 Grant Ave Cleveland 5 Ohio	35
Frenchtown Porcelain Co Muirhead Ave Trenton 9 NJ 39	
Fusite Corp	5-36
6000 Fernview Ave Cincinnati 13 Ohio Garde Mfg Co 588 Eddy St	36
Providence 3 RI 31-32-35-36-39 General Cement Mfg Co Div	9-40
Textron Inc 400 S Wyman St Rockford Ill	
General Ceramics Corp Crows Mill Rd Keasbey NJ	31
Crows Mill Rd Keasbey NJ	
General Components Inc	36
General Components Inc 225 E 144 St	
225 E 144 St  Bronx 51 NY 29-25 28 20 40	
225 E 144 St Bronx 51 NY 29-35-38-39-46 General Electric Co Specialty Electronic Components Dept	)-41
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225 E 144 St Bronx 51 NY 29-35-38-39-40 General Electric Co Specialty Electronic Components Dept W Genesee St Auburn NY General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY	9-41 29
225 E 144 St Bronx 51 NY 29-35-38-39-40 General Electric Co Specialty Electronic Components Dept W Genesee St Auburn NY General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY	9-41 29 40
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225 E 144 St Bronx 51 NY General Electric Co Specialty Electronic Components Dept W Genesae St Auburn NY General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY General Machine & Instrument Co Clinton Rd & Rt 46 Caldwell NJ General Metal Products Co 1010 Centre St Easton Pa	9-41 29 40
225 E 144 St Bronx 51 NY General Electric Co Specialty Electronic Components Dept W Genesee St Auburn NY General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY General Machine & Instrument Co Clinton Rd & Rt 46 Caldwell NJ General Metal Products Co 1010 Centre St Easton Pa 34 General Radio Co 275 Massachusetts Ave	29 40 41
225 E 144 St Bronx 51 NY General Electric Co Specialty Electronic Components Dept W Genesee St Auburn NY General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY General Machine & Instrument Co Clinton Rd & Rt 46 Caldwell NJ General Metal Products Co 1010 Centre St Easton Pa 34 General Radio Co 275 Massachusetts Ave	29 40 41
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General Components Inc  225 E 144 St Bronx 51 NY General Electric Co Specialty Electronic Components Dept W Genese St Auburn NY General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY General Machine & Instrument Co Clinton Rd & Rt 46 Caldwell NJ General Metal Products Co 1010 Centre St Easton Pa General Radio Co 275 Massachusetts Ave Cambridge 39 Mass General RF Fittings Inc	29 40 41 -40
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General Components Inc  225 E 144 St Bronx 51 NY General Electric Co Specialty Electronic Components Dept W Genesee St Auburn NY General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY General Machine & Instrument Co Clinton Rd & Rt 46 Caldwell NJ General Matal Products Co 1010 Centre St Easton Pa General Radio Co 275 Massachusetts Ave Cambridge 39 Mass General RF Fittings Inc 702 Beacon St Boston 15 Mass General RF Fittings Inc 702 Beacon St Boston 15 Mass General RF Fittings Inc 702 Beacon St Boston 15 Mass General RF Fittings Inc 702 Beacon St Boston 15 Mass General RF Fittings Inc 702 Beacon St Boston 15 Mass General RF Fittings Inc 702 Beacon St Boston 15 Mass General RF Fittings Inc 702 Beacon St Boston 15 Mass General RF Fittings Inc 702 Beacon St Boston 15 Mass General RF Fittings Inc 702 Beacon St Boston 15 Mass General RF Fittings Inc 702 Beacon St Boston 15 Mass General RF Fittings Inc 702 Beacon St Boston 15 Mass General RF Fittings Inc 702 Beacon St Boston 15 Mass General RF Fittings Inc 702 Beacon St Boston 15 Mass General RF Fittings Inc 703 Beacon St Boston 15 Mass General RF Fittings Inc 704 St Massachusetts General RF Fittings Inc 705 Massachusetts General RF Fittings Inc 706 St Massachusetts General RF Fittings Inc 707 Massachusetts General RF Fittings Inc 708 St Massachusetts General RF Fittings Inc 709 St Massachusetts General RF Fittings Inc 700 St Massachusetts General RF Fittings Inc 700 St Massachusetts General RF Fittings Inc 701 Massachusetts General RF Fittings Inc 702 St Massachusetts General RF Fittings Inc 703 St Massachusetts General RF Fittings Inc 706 St Massachusetts General RF Fittings Inc 707 Massachusetts General RF Fittings Inc 708 St Massachusetts General RF Fittings Inc 709 St Massachusetts General RF Fittings Inc 709 St Massachusetts General RF Fittings Inc 700 St Massachusetts General RF Fittings Inc 700 St Massachusetts General RF Fittings Inc 700 St Massachusetts General RF Fittings Inc 707 Massachusetts General RF Fittings Inc 708 St Massachusetts Genera	29 40 41 -40 -31 -31
225 E 144 St Bronx 51 NY 29-35-38-39-40 General Electric Co Specialty Electronic Components Dept W Genesae St Auburn NY General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY General Machine & Instrument Co Clinton Rd & Rt 46 Caldwell NJ General Metal Products Co 1010 Centre St Easton Pa 34 General Radio Co 275 Massachusetts Ave Cambridge 39 Mass 30 General RF Fittings Inc 702 Beacon St Boston 15 Mass 27-28-29 Glass & Bro Harry H 10 Van Cortlandt Ave E New York 68 NY Globe Electrical Mfg Co 1729 W 134 St Gardena Calif Goe Eng'g Co 219 S Mednik Ave	29 40 41 -40 -31 -31
225 E 144 St Bronx 51 NY General Electric Co Specialty Electronic Components Dept W Genese St Auburn NY General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY General Machine & Instrument Co Clinton Rd & Rt 46 Caldwell NJ General Matal Products Co 1010 Centre St Easton Pa 34 General Radio Co 275 Massachusetts Ave Cambridge 39 Mass General RF Fittings Inc 702 Beacon St Boston 15 Mass Glass & Bro Harry H 10 Van Cortlandt Ave E New York 68 NY Globe Electrical Mfg Co 1729 W 134 St Gardena Calif Goe Eng'g Co 219 S Mednik Ave Los Angeles 22 Calif Graphik Circuits Div Cinch Mfg Con	29 40 41 -40 -31 -31
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General Components Inc  225 E 144 St Bronx 51 NY General Electric Co Specialty Electronic Components Dept W Genese St Auburn NY General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY General Machine & Instrument Co Clinton Rd & Rt 46 Caldwell NJ General Metal Products Co 1010 Centre St Easton Pa General Radio Co 275 Massachusetts Ave Cambridge 39 Mass General RF Fittings Inc 702 Beacon St Boston 15 Mass 27-28-29 Glass & Bro Harry H 10 Van Cortlandt Ave E New York 68 NY Globe Electrical Mfg Co 1729 W 134 St Gardena Calif Goe Eng'g Co 219 S Mednik Ave Los Angeles 22 Calif Graphik Circuits Div Cinch Mfg Corp 200 S Turnbull Canyon Rd La Puente Calif Grayhill Ine 561 Hillgrove Ave LaGrange Ill Gremar Mfg Co 7 North Ave Wakefield Mass Gulton Industries Inc 212 Durham Ave Metuchen NJ Hallamore Electronics Co 3852 Brookhurst Ave Anaheim Calif Hallett Mfg Co 1601 W Florence Inglewood Calif Es-29-31-34 Harwood Electronics Co 466 W Superior St Chicago 10 Ill	29 40 41 -40 -31 -31 -41 -41 -29 42 43 44 41 -41 -39 -41 27 28 34
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General Components Inc  225 E 144 St Bronx 51 NY General Electric Co Specialty Electronic Components Dept W Genesee St Auburn NY General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY General Machine & Instrument Co Clinton Rd & Rt 46 Caldwell NJ General Metal Products Co 1010 Centre St Easton Pa General Radio Co 275 Massachusetts Ave Cambridge 39 Mass General RF Fittings Inc 702 Beacon St Boston 15 Mass 27-28-29 Glass & Bro Harry H 10 Van Cortlandt Ave E New York 68 NY Globe Electrical Mfg Co 1729 W 134 St Gardena Calif Goe Eng'g Co 219 S Mednik Ave Los Angeles 22 Calif Graphik Circuits Div Cinch Mfg Corp 200 S Turnbull Canyon Rd La Puente Calif Graphill Inc 561 Hillgrove Ave LaGrange Ill Gremar Mfg Co 7 North Ave Wakefield Mass Gulton Industries Inc 212 Durham Ave Metuchen NJ Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif Hallett Mfg Co 1601 W Florence Inglewood Calif Harwood Electronics Co 466 W Superior St Chicago 10 Ill Heldor Mfg Corp 238 Lewis St Paterson NJ 35-36 Hermaseal Co 1101 Lafayette St Elkhart Ind Hermetite Corp	29 40 41 -40 -31 -31 -41 -41 -27 28 34 -35 34 -39 36
General Components Inc  225 E 144 St Bronx 51 NY General Electric Co Specialty Electronic Components Dept W Genese St Auburn NY General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY General Machine & Instrument Co Clinton Rd & Rt 46 Caldwell NJ General Machine & Instrument Co Clinton Rd & Rt 46 Caldwell NJ General Metal Products Co 1010 Centre St Easton Pa 34 General Radio Co 275 Massachusetts Ave Cambridge 39 Mass General RF Fittings Inc 702 Beacon St Boston 15 Mass 27-28-29 Glass & Bro Harry H 10 Van Cortlandt Ave E New York 68 NY Globe Electrical Mfg Co 1729 W 134 St Gardena Calif Goe Eng'g Co 219 S Mednik Ave Los Angeles 22 Calif Graphik Circuits Div Cinch Mfg Corp 200 S Turnbull Canyon Rd La Puente Calif Graphik Circuits Div Cinch Mfg Corp 200 S Turnbull Canyon Rd La Puente Calif Graphik Circuits Div Cinch Mfg Corp 201 S Mednik Ave Los Angeles 20 Calif Graphik Circuits Div Cinch Mfg Corp 202 S Turnbull Canyon Rd La Puente Calif Graphik Circuits Div Cinch Mfg Corp 203 S Turnbull Canyon Rd La Puente Calif Graphik Circuits Div Cinch Mfg Corp 204 S Turnbull Canyon Rd La Puente Calif Graphik Circuits Div Cinch Mfg Corp 205 Turnbull Canyon Rd La Puente Calif Graphik Circuits Div Cinch Mfg Corp 206 S Turnbull Canyon Rd La Puente Calif Graphik Circuits Div Cinch Mfg Corp 207 North Ave Wakefield Mass Gulton Industries Inc 212 Durham Ave Metuchen NJ Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif Hallett Mfg Co 1601 W Florence Inglewood Calif Harwood Electronics Co 466 W Superior St Chicago 10 III Heldor Mfg Corp 238 Lewis St Paterson NJ 35-36	29 40 41 -40 -31 -31 -41 -41 -27 28 34 -35 34 -39 36 36

Hoffman Flostronica Com-	
Hoffman Electronics Corp 3761 S Hill St Los Angeles 7 Calif	41
Houman Eng'g Corn	34
Anoka Minn Holland Electronics 2133 Central Dr S East Meadow NY	
Hollingsworth Co Phoenixville Pa	33
Holub Industries Inc 413 De Kalb Ave Sycamore Ill	38
413 De Kalb Ave Sycamore Ill Hubbell Inc Harvey	29
State St & Bostwick Ave	
Bridgeport 2 Conn 28-31-35-3 Hughey & Phillips	
3300 N San Fernando Blvd Burbank Cal Ideal Industries Inc	if 34
5127 Park Ave Sycamore Ill iE Mfg	29
325 N Hoyne Ave	
Chicago 12 Ill 35-36-37-38-39-4 Industrial Devices Inc	0-41
982 River Rd Edgewater NJ Industrial Hardware Mfg Co	31
109 Prince St New York 12 NY 4 Industrial Engravers Inc	0-41
2212 McDonald Ave Brooklyn 23 NV	41
Insuline Corp of America 186 Granite St Manchester NH 30-31-3 International Resistance Co	3-40
International Resistance Co	0.0
401 N Broad St Philadelphia 8 Pa Jan Hardware Mfg Co	36
75 N 11 St Brooklyn 11 NY Janco Corp	83
3111 Winona Ave Burbank Calif Javex	34
P.O. Pour 646 Deallers 1 of 116	9-31
6101-16 Ave Brooklyn 4 NY	30
JFG Mg Co 6101-16 Ave Brooklyn 4 NY Jodee Plastics Co 213 Shepherd Ave Brooklyn 8 NY Johns-Manville	40
Johns-Manville 22 E 40 St New York 15 NV	
Johns January 22 E 40 St New York 16 NY Jones Div Howard B Cinch Mfg Co 1026 S Homan Ave Chicago 24 Ill 31-4 Jones Electronics Hiram 2313 W Olive St Burbank Calif Joy Mfg Co Electrical Products Div	40
Jones Electronics Hiram	0-41
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Joy Mfg Co Electrical Products Div 1201 Macklind Ave St Louis 10 Mo	
JOY MIR CO	
333 Oliver Bldg Pittsburgh 22 Pa Kees Mfg Co F D	28
700 Park St Beatrice Nebr Keystone Electronics Corp	34
423 Broome St New York 13 NY 33-35-3 Kliegl Bros	۹-40
321 W 50 St New York 19 NY	29
Koiled Kords Inc 1565 Dixwell Ave New Haven 14 Conn 2	8-31
Kolton Electric Mfg Co 123 N J Railroad Ave Newark 5 NJ 29-3: Krueger & Hudepohl	5-28
Krueger & Hudepohl 1041 Evans St	0-00
Cincinnati 4 Ohio 25-26-29	8-39
Kulka Electric Mfg Co 633 S Fulton Ave	
Mt Vernon NY 35-37-46 Kuss Industries Inc	
Tacony & I.ewis Sts Philadelphia 24 Pa	30
3656 N Lincoln Ave Chicago 13 Ill 30-3: Laminated Sheet Products Corp	l-35
449 Nenonset St Norwood Mass 44	)-41
Lane Electronics Mfg Corp 7254 Atoll Ave N Hollywood Calif	38
Lerco Electronics Inc 501 S Varney St	00
Burbank Calif 35-37-38-39-40	)-41
5873 Rodeo Rd	
Los Angeles 16 Calif 35-39-46 Litton Industries of Calif	)-41
Litton Industries of Calif  336 N Foothill Rd  Reverly Hills Calif	
Long Inc Thomas J	5-40
Beverly Hills Calif ong Inc Thomas J 215 Stonehinge Lane Carle Place LI NY orentzen Inc H K	-41
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Lundev Associates	_
694 Main St Waltham 54 Mass McCormick Selph Assoc	36
P O Box 6 Hollister Airport Hollister Calif	36
	.,,
nacson Co	00
3260 Motor Ave Los Angeles 34 Calif Malkin-Illion Co	28
3260 Motor Ave Los Angeles 34 Calif Malkin-Illion Co	33
3260 Motor Ave Los Angeles 34 Calif Malkin-Illion Co	33
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Michigan Electronics Inc.	
Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill	3
Mid-West Conveyer Co Metal Products I 7 & Sunshine Rd Kansas City 15 Kan	Div
Mill Case Corn	n 3
35-18 37 St Long Island City NY 33-3-3 Milgo Electronic Corp 7601 N W 37 Ave Miami 47 Fla	-40-4
Minen Mig CO James	3
150 Exchange St Malden 48 Mass Miller Co J W	40-4
5917 S Main St Los Angeles 3 Calif Minnesota Mining & Mfg Co	40-4
900 Fauquier Ave St Paul 6 Minn Minn-Honeywell Regulator Co	2
Ordnance Div Hopkins Minn Mitronics Inc	3
1290 Central Ave Hillside NJ Molded Insulation Co	35-3
335 E Price St Philadelphia 44 Pa Molding Corp of America	3
58 Weybosset St Providence 3 RI 35-36-39	-40-4
Morse Co Frank W 1300 Soldiers Field Rd Boston 35 Mass	
Mosley Electronics Inc 8622 St Charles Rock Rd St Louis 14	Mo 2
Motiograph Inc 4441 W Lake St Chicago 24 Ill Mutual Electronic Industries Corp	3
Mutual Electronic Industries Corp	
85 Beechwood Ave New Rochelle NY National Company Inc	4
61 Sherman St Malden 48 Mass National Tel-Tronics Corp	3
52 St Casimir Ave Yonkers NY 30-31-33-35-37-39	-40-4
Nems-Clarke Inc 919 Jesup-Blair Dr Silver Spring Md Neosil Products Div Rubber Associates	3
Neosil Products Div Rubber Associates 745 5 Ave New York 22 NY	2
Newcomb Spring Corp	_
177 E Hawthorne Ave Valley Stream NY Norma Hoffman Bearings Corp	29-3
Walker Div Hamilton Ave Stamford Conn	3
North Electric Co 553 S Market St Galion Ohio 30-31-33	
Northern Plastics Corp 2nd Market St LaCrosse Wis	
Olympic Plastics Co 3471 S LaCienega Blvd	4
Los Angeles 16 Calif	40
Omega Industries Inc 36-39 171 St Flushing NY	35
Page-Fogwell Corp 1311 Riverside Dr Los Angeles 31 Cali	
Painton & Co Ltd c/o British Electronic Sales Co Box 132 Oakland Gardens 64 NY	3
Panellit Inc 7401 N Hamlin Ave Skokie Ill	35
Patton-MacGuyer Co 17 Virginia Ave Providence 5 RI	35
Permonite Mfg Co	0.0
Chicago 11 III 31-35- Phalo Plastics Corp	40-41
25 Foster St Worcester 8 Mass PIC Design Corp	31
477 Atlantic Ave	
F Dodlosson II NV	0- 4-
E Rockaway LI NY Pix Mfg Co	35-40
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E Rockaway LI NY Pix Mfg Co 75 Hudson St Newark 3 NJ Plastic-Craft Products Corp 1 Station Plaza W Nyack NY Plastic Mold & Eng'g Co 157 Clifford St Providence RI Pomona Electronics Co 1126 W 5 Ave Pomona Calif Precise Instrument Parts Co 4520 San Fernando Rd Glendale 4 Cal	32-35 40-41 26
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E Rockaway LI NY Pix Mfr Co 75 Hudson St Newark 3 NJ Plastic-Craft Products Corp 1 Station Plaza W Nyack NY Plastic Mold & Ene'g Co 157 Clifford St Providence RI Pomona Electronics Co 1126 W 5 Ave Pomona Calif Precise Instrument Parts Co 4520 San Fernando Rd Glendale 4 Cal Precision Metal Products Co 41 Elm St Stoneham Mass Pye Canada Ltd 82 Northline Rd	32-35 40-41 26 31-33 if 35 39-40
E Rockaway LI NY Pix Mfc Co 75 Hudson St Newark 3 NJ Plastic-Craft Products Corp 1 Station Plaza W Nyack NY Plastic Mold & Eng'g Co 157 Clifford St Providence RI Pomona Electronics Co 1126 W 5 Ave Pomona Calif Precise Instrument Parts Co 4520 San Fernando Rd Glendale 4 Cal Precision Metal Products Co 41 Elm St Stoneham Mass Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada	32-35 40-41 26 31-33 if 35 39-40
E Rockaway LI NY Pix Mfc Co 75 Hudson St Newark 3 NJ Plastic-Craft Products Corp 1 Station Plaza W Nyack NY Plastic Mold & Eng'g Co 157 Clifford St Providence RI Pomona Electronics Co 1126 W 5 Ave Pomona Calif Precise Instrument Parts Co 4520 San Fernando Rd Glendale 4 Cal Precision Metal Products Co 41 Elm St Stoneham Mass Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada The Pyle-National Co 1334 N Kostner Ave Chicago 51 III 28- Radio Corp of America Commercial	32-35 40-41 26 31-33 if 35 39-40 33-36 31-34
E Rockaway LI NY Pix Mfg Co 75 Hudson St Newark 3 NJ Plastic-Craft Products Corp 1 Station Plaza W Nyack NY Plastic Mold & Eng'g Co 157 Clifford St Providence RI Pomona Electronics Co 1126 W 5 Ave Pomona Calif Precise Instrument Parts Co 4520 San Fernando Rd Glendale 4 Cal Precision Metal Products Co 41 Elm St Stoneham Mass Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada The Pyle-National Co 1334 N Kostner Ave Chicago 51 III 28- Radio Corp of America Commercial	32-35 40-41 26 31-33 if 35 39-40 33-36 31-34
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E Rockaway LI NY Pix Mfc Co 75 Hudson St Newark 3 NJ Plastic-Craft Products Corp 1 Station Plaza W Nyack NY Plastic Mold & Eng'g Co 157 Clifford St Providence RI Pomona Electronics Co 1126 W 5 Ave Pomona Calif Precise Instrument Parts Co 4520 San Fernando Rd Glendale 4 Cal Precision Metal Products Co 41 Elm St Stoneham Mass 35- Pye Canada Ltd 82 Northline Rd Troronto 16 Ontario Canada The Pyle-National Co 1334 N Kostner Ave Chicago 51 III 28- Radio Corp of America Commercial Electronic Products Camden 2 NJ Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass 28-35- Ravtheon Mfg Co Microwave & Power Tube Operations Foundry Ave Waltham Mass	32-35 40-41 26 31-33 if 35 39-40 33-36 31-34
E Rockaway LI NY Pix Mfc Co 75 Hudson St Newark 3 NJ Plastic-Craft Products Corp 1 Station Plaza W Nyack NY Plastic Mold & Eng'g Co 157 Clifford St Providence RI Pomona Electronics Co 1126 W 5 Ave Pomona Calif Precise Instrument Parts Co 4520 San Fernando Rd Glendale 4 Cal Precision Metal Products Co 41 Elm St Stoneham Mass Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada The Pyle-National Co 1334 N Kostner Ave Chicago 51 III 28- Radio Corp of America Commercial Electronic Products Camden 2 NJ Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass Rest Mfg Corp 393 Jericho Turnpike Mineola NY	32-35 40-41 26 31-33 if 35 39-40 33-36 31-34 33 36-39
E Rockaway LI NY Pix Mfg Co 75 Hudson St Newark 3 NJ Plastic-Craft Products Corp 1 Station Plaza W Nyack NY Plastic Mold & Eng'g Co 157 Clifford St Providence RI Pomona Electronics Co 1126 W 5 Ave Pomona Calif Precise Instrument Parts Co 4520 San Fernando Rd Glendale 4 Cal Precision Metal Products Co 41 Elm St Stoneham Mass Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada The Pyle-National Co 1334 N Kostner Ave Chicago 51 III 28- Radio Corp of America Commercial Electronic Products Camden 2 NJ Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass Ravtheon Mfg Co Microwave & Power Tube Operations Foundry Ave Waltham Mass RFF Mfg Corp 393 Jericho Turnpike Mineola NY Reiner Electronics Co Centre & Glendale Sts Easton Pa	32-85 40-41 26 31-33 if 35 39-40 33-36 31-34 33 36-39 34 34-40
E Rockaway LI NY Pix Mfg Co 75 Hudson St Newark 3 NJ Plastic-Craft Products Corp 1 Station Plaza W Nyack NY Plastic Mold & Eng'g Co 157 Clifford St Providence RI Pomona Electronics Co 1126 W 5 Ave Pomona Calif Precise Instrument Parts Co 4520 San Fernando Rd Glendale 4 Cal Precision Metal Products Co 41 Elm St Stoneham Mass Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada The Pyle-National Co 1334 N Kostner Ave Chicago 51 III 28- Radio Corp of America Commercial Electronic Products Camden 2 NJ Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass Ravtheon Mfg Co Microwave & Power Tube Operations Foundry Ave Waltham Mass RFF Mfg Corp 393 Jericho Turnpike Mineola NY Reiner Electronics Co Centre & Glendale Sts Easton Pa	32-85 40-41 26 31-33 if 35 39-40 33-36 31-34 33 36-39 34 34-40
E Rockaway LI NY Pix Mfg Co 75 Hudson St Newark 3 NJ Plastic-Craft Products Corp 1 Station Plaza W Nyack NY Plastic Mold & Eng'g Co 157 Clifford St Providence RI Pomona Electronics Co 1126 W 5 Ave Pomona Calif Precise Instrument Parts Co 4520 San Fernando Rd Glendale 4 Cal Precision Metal Products Co 41 Elm St Stoneham Mass Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada The Pyle-National Co 1334 N Kostner Ave Chicago 51 III 28- Radio Corp of America Commercial Electronic Products Camden 2 NJ Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass Ravtheon Mfg Co Geramic Sales Foundry Ave Waltham Mass RFF Mfg Corp 393 Jericho Turnpike Mineola NY Reiner Electronics Co Centre & Glendale Sts Easton Pa Remler Co 2101 Bryant St San Francisco Calif 28- Revere Corp of America	32-85 40-41 26 31-33 if 35 39-40 33-36 31-34 33 36-39 34 34-40 331-33
E Rockaway LI NY Pix Mfg Co 75 Hudson St Newark 3 NJ Plastic-Craft Products Corp 1 Station Plaza W Nyack NY Plastic Mold & Eng'g Co 157 Clifford St Providence RI Pomona Electronics Co 1126 W 5 Ave Pomona Calif Precise Instrument Parts Co 4520 San Fernando Rd Glendale 4 Cal Precision Metal Products Co 41 Elm St Stoneham Mass 35- Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada The Pyle-National Co 1334 N Kostner Ave Chicago 51 III 28- Radio Corp of America Commercial Electronic Products Camden 2 NJ Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass 28-35- Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass RFF Mfg Corp 393 Jericho Turnpike Mineola NY Reiner Electronics Co Centre & Glendale Sts Easton Pa Remler Co 2101 Bryant St San Francisco Calif 28- Revere Corp of America Wallingford, Conn Richards Electroraft Inc	32-85 40-41 26 31-33 if 35 39-40 33-36 31-34 33 35-36 34 34-40 34
E Rockaway LI NY Pix Mfc Co 75 Hudson St Newark 3 NJ Plastic-Craft Products Corp 1 Station Plaza W Nyack NY Plastic Mold & Eng'g Co 157 Clifford St Providence RI Pomona Electronics Co 1126 W 5 Ave Pomona Calif Precise Instrument Parts Co 4520 San Fernando Rd Glendale 4 Cal Precision Metal Products Co 41 Elm St Stoneham Mass 35- Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada The Pyle-National Co 1334 N Kostner Ave Chicago 51 III 28- Radio Corp of America Commercial Electronic Products Camden 2 NJ Ravtheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass 28-35- Ravtheon Mfg Co Microwave & Power Tube Operations Foundry Ave Waltham Mass RFF Mfg Corp 393 Jericho Turnpike Mineola NY Reiner Electronics Co Centre & Glendale Sts Easton Pa Remler Co 2101 Bryant St San Francisco Calif 28- Revere Corp of America Wallingford, Conn Richards Electrocraft Inc 3739 N Kedzie Ave Chicago 18 III	32-85 40-41 26 31-33 if 35 39-40 33-36 31-34 33 36-39 35-36 34 34-40 31-33 34 225-31
E Rockaway LI NY Pix Mfg Co 75 Hudson St Newark 3 NJ Plastic-Craft Products Corp 1 Station Plaza W Nyack NY Plastic Mold & Eng'g Co 157 Clifford St Providence RI Pomona Electronics Co 1126 W 5 Ave Pomona Calif Precise Instrument Parts Co 4520 San Fernando Rd Glendale 4 Cal Precision Metal Products Co 41 Elm St Stoneham Mass 35- Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada The Pyle-National Co 1334 N Kostner Ave Chicago 51 III 28- Radio Corp of America Commercial Electronic Products Camden 2 NJ Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass Ravtheon Mfg Co Microwave & Power Tube Operations Foundry Ave Waltham Mass RFF Mfg Corp 393 Jericho Turnpike Mineola NY Reiner Electronics Co Centre & Glendale Sts Easton Pa Remler Co 2101 Bryant St San Francisco Calif 28- Revere Corp of America Wallingford, Conn Richards Electrocraft Inc 3739 N Kedzie Ave Chicago 18 III Richardson Co 27 Ave & Lake St Melrose Park III 35- Rodale Mfg Co	32-85 40-41 26 31-33 if 35 39-40 33-36 31-34 33 36-39 35-36 34 34-40 31-33 34 225-31

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Rogers Corp Rogers Conn	40	P O Box 33E	66-11 99 St Forest Hills 74 NY 10 Communication Accessories Co
Romar Plastics Inc	40	Charlottesville Va 31-33-40-41 U S Stoneware Co Alite Div	110 St & 71 Hwy Hickman Mills Mid 10
1311 E Main St St Charles Ill Rubbercraft Corp of Calif	40	Orville Ohio	Consolidated Avionica Corp 66 Brooklyn Ave Westbury NY 4-5
1800 W 220 St Torrance Calif	35	Vaco Products Co	Consolidated Productions Inc
Saxton Products Inc	29	317 E Ontario St Chicago 11 Ill 35-38 Vector Electronic Co	Broward Int'l Airport Ft Lauderdale Fla 10
1661 Boone Ave New York 60 NY Scintilla Div Bendix Aviation Corp	29	3352 San Fernando Rd	Continental Electronics Ltd 302 Oakland St Brocklyn 22 NY 5-10
Delaware Ave Sidney NY	28	Los Angeles 65 Calif 31-35-37-40-41 Viking Industries Inc	Continental Electronics Mfg Co
Sealectro Corp 610 Fayette Ave Mamaroneck NY 30-35	-36-39	21343 Roscoe Blvd Canoga Park Calif 28-31	4212 S Buckner Blvd Dallas 27 Texas 10
Seals Ltd		Vitroseal Corp	Cook Electric Co 2700 Southport Ave Chicago 14 Ill 4
1010 Mission St S Pasadena Calif 31	1-32-36	709 E 106 St Indianapolis 20 Ind 32-35-36-39-40-41	Delmo Victor Co Div Textron Inc
Shakeproof Div Illinois Tool Works St Charles Rd Elgin Ill	35	Volta Mfg Co	1515 Industrial Way Belmont Calif 2 Daven Co
Shaw Insulator Co	40	2154 N Halsted St Chicago 14 Ill 40 Wade Electric Products Co	Poute 10 Livingston NJ 1-5-9
160 Coit St Irvington NJ Sheffco Mfg Corp	40	Box 271 Sturgis Mich 29-35-37-38-40-41	Dayton Aviation Radio & Equipment Corp
323 Bergen Blvd Fairview NJ	35	Waldom Electronics Inc 4625 W 53 St Chicago 32 III 27	DeMornay-Ronardi Corp
Silicone Insulation Inc Seabury Ave & Butler Pl Bronx 61 N	IY 40	Walsco Electronics Mfg Co	780 S Arroyo Pkwy Pasadena Calii 4
Silicone Seals Inc		100 W Green St Rockford III 29-35-38-41	Devco Eng'g Inc P O Box 387 Caldwell NJ 5
3125 Milwaukee Ave Chicago 18 Ill 30	5-39-41	Waltham Horological Corp 395 Lynnway Lynn Mass 31	Diamond Power Specialty Corp
Smith Inc Herman H 2326 Nostrand Ave		Waltham Screw Co	Lancaster Ohio Dietz Co Henry G
Brooklyn 10 NY 26-31-35	5-40-41	77 Rumford Ave Waltham 54 Mass 35 Warren Plastics Corp	12-16 Astoria Blvd
Spaulding Fibre Co 310 Wheeler St Tonawanda NY	40	Warren Pa 32	Long Island City 2 NY
Sphere Co		Western Int'l Co 45 Vesey St New York 7 NY 28-33	Dunlap Electronics 764 9 St Des Moines 14 Iowa 1
25 Amity St Little Falls NJ	36	Wheaton Co T C	Dynamics Research Associates DIV
Spivey Inc James S 4908 Hampden Lane Washington 14 I	OC 33	Millville NJ 35-36-39-41	Universal Match Corp P O Box 5841 Ferguson 21 Mo
Standard Electric Time Co		Whitaker Cable Corp 1301 Burlington St	Electric Regulator Corp
89 Logan St Springfield 2 Mass Standard Electronics Corp Sub Dynami	30-31 es	N Kansas City 16 Mo 29-35-38	Pearl St Norwalk Conn Electrical Communications Inc
Corp of America 285 Emmett St		Whitso Inc 9330 Byron St Schiller Park Ill 39	765 Clementina St.
Newark 5 NJ Standard Record Mfg Co	30	Willard Storage Battery	San Francisco 3 Calif
70 N San Gabriel Blvd		246 E 131 St Cleveland 1 Ohio 38	Electro-Physics Co 287 Broadway New York 7 NY 7-8
Pasadena 8 Calif	40-41	Winchester Electronics Inc Willard Rd Norwalk Conn 28-39	Flootrola Inc
States Co 19 New Pa Ave Hartford 6 Conn	40	Winder Aircraft Corp of Florida	Floatron-Radar Products
Stimpson Co Edwin B	0 0 5 0 0	P O Box 2397 Drane Field Lakeland Fla 33-34-40-41	4806 W Chicago Ave Chicago 51 111
70 Franklin Ave Brooklyn 5 NY 2 Stone City Machine & Tool Co	9-35-38	Wisconsin Porcelain Co	Electronic Specialty Co 5121 San Fernando Rd
1206 7 St Bedford Ind 26-2	9-35-41	121 Lincoln St Sun Prairie Wis 29	Los Angeles 39 Calif 4-6
Strat-O-Seal Mfg Co 3039 W Fullerton Ave		Zell Products Corp 280 Main St Norwalk Conn 36	Elm Labs
Chicago 47 Ill 3	6-40-41	Zierick Mfg Corp	10 Washington Ave Hastings-on-Hudson NY 10-11
Stromberg-Carlson Div General		Beechwood & Rockdale Ave New Rochelle NY	Eman Dadio Laba Inc
Dynamics Corp 100 Carlson Rd Rochester 3 NY	31-41		637 Stewart Ave Garden City NY 10 Federal Telephone & Radio Co
Stupakoff Div Carborundum Co	5-36-39	21—CONTROL EQUIPMENT,	Div IT&T 100 Kingsland Rd
Latrobe Pa Swedlow Plastics Co	0-00-00	COMMUNICATIONS	Chiton NJ
6986 Bandini Blvd	40.41	COMMUNICATIONS	478 Warminster Rd Hatboro Pa
Los Angeles 22 Calif Switchcraft Inc	40-41	Controls, audio recording 1	Fisher Pierce Co 170 Pearl St S S Braintree 85 Mass 5-7
1328 N Halsted St Chicago 22 Ill	31-33	Controls, automatic tuning 2	Frequency Standards Inc
Sylvania Electric Products Inc 1740 Broadway New York 19 NY	31-32	Controls, broadcast input 3	P O Box 504 Asbury Park NJ
Tatnall Measuring Systems Co		Controls, frequency 4	General Control Co 1200 Soldiers Field Rd
Kimberton Rd Phoenixville Pa Taylor Fibre Co Norristown Pa	34 40-41	Controls, illumination 5 Controls, motor & generator 6	Boston 34 Mass General Electric Co Apparatus Sales Div
Technical Ply-Woods Sales		Controls, motor & generator 6 Controls, photoelectric 7	1 River Rd Schenectady 5 NY
6756 Crandon Ave Chicago 49 III	33	Controls, photographic 8	General Radio Co
Techniques Inc 52 Jackson Ave Hackensack NJ	40	Controls, power level 9	275 Massachusetts Ave Cambridge 39 Mass 5
Telectro Industries Corp	00.00	Controls, remote radio 10	
35-18 37 St Long Island City 1 NY Telematic Industries Inc	30-33	Controls, remote TV 11	Gordon Enterprises 5362 N Cahuenga Blvd N Hollywood Calif 8 Hallamore Electronics Co
16 Howard Ave Brooklyn 7 NY	30	Controls, tower lighting 12	
Telephonics Corp			8352 Brookhurst Ave Anaheim Calif 11
	2.2	Controls, ventilation 13	8352 Brookhurst Ave Anaheim Call
Park Ave Huntington LI NY Telex	33	Controls, ventilation 13 Tuners, automatic 14	Hammarlund Mfg Co 460 W 34 St New York 1 NY  10
Telex 1633 Eustis St St Paul 1 Minn	33 33	Tuners, automatic	8352 Brookhurst Ave Anaheim Caill Hammarlund Mfg Co 460 W 34 St New York 1 NY Hancock Electronics Corp 2553 Middlefield Rd Redwood City Calif 11
Telex		Tuners, automatic	8352 Brookhurst Ave Anaheim Cail Hammarlund Mfg Co 460 W 34 St New York 1 NY Hancock Electronics Corp 2553 Middlefield Rd Redwood City Calif 11 Hancon-Gorrill-Brigan
Telex 1633 Eustis St St Paul 1 Minn Telker Inc N Murray Ridge Rd Elyria Ohio Thale Eng'g Corp	33 40	Tuners, automatic	Hammarlund Mfg Co 460 W 34 St New York 1 NY Hancock Electronics Corp 2553 Middlefield Rd Redwood City Calif 11 Hanson-Gorrill-Brian 85 Hazel St Glen Cove NY Hattage Electrical Mfg Co
Telex 1633 Eustis St St Paul 1 Minn Telker Inc N Murray Ridge Rd Elyria Ohio Thale Eng'g Corp 2104 E Villa St Pasadena Calif	33	Tuners, automatic	Hammarlund Mfg Co 460 W 34 St New York 1 NY Hancock Electronics Corp 2553 Middlefield Rd Redwood City Calif 11 Hanson-Gorrill-Brian 85 Hazel St Glen Cove NY Hartman Electrical Mfg Co 175 N Diamond St Mansfield Ohio Haven Flectronics Cox
Telex 1633 Eustis St St Paul 1 Minn Telker Inc N Murray Ridge Rd Elyria Ohio Thale Eng's Corp 2104 E Villa St Pasadena Calif Thomas & Betts Co	33 40	Tuners, automatic	Hammarlund Mfg Co 460 W 34 St New York 1 NY Hancock Electronics Corp 2553 Middlefield Rd Redwood City Calif 11 Hanson-Gorrill-Brian 85 Hazel St Glen Cove NY Hartman Electrical Mfg Co 175 N Diamond St Mansfield Ohio Hoover Electronics Co 3640 Woodland Ave Baltimore 7 Md 10
Telex 1633 Eustis St St Paul 1 Minn Telker Inc N Murray Ridge Rd Elyria Ohio Thale Eng'g Corp 2104 E Villa St Pasadena Calif Thomas & Betts Co 36 Butler St Elizabeth NJ Thompson-Bremer & Co Sub	33 40 34	Tuners, automatic	Hammarlund Mfg Co 460 W 34 St New York 1 NY Hancock Electronics Corp 2553 Middlefield Rd Redwood City Calif 11 Hanson-Gorrill-Brian 85 Hazel St Glen Cove NY Hartman Electrical Mfg Co 175 N Diamond St Mansfield Ohio Hoover Electronics Co 3640 Woodland Ave Baltimore 7 Md Hughey & Phillips
Telex 1633 Eustis St St Paul 1 Minn Telker Inc N Murray Ridge Rd Elyria Ohio Thale Eng'g Corp 2104 E Villa St Pasadena Calif Thomas & Betts Co 36 Butler St Elizabeth NJ 28-2 Thompson-Bremer & Co Sub American Machine & Fdry	33 40 34 29-35-38	Adler Electronics Inc 1 LeFevre Lane New Rochelle NY Alliance Mfg Co Lake Park Blvd Alliance Ohio Allis-Chalmers Mfg Co Milwaukee 1 Wis Altec Lansing Corp 1515 S Manchester Ave Anaheim Calif American Metrix Corp	Hammarlund Mfg Co 460 W 34 St New York 1 NY Hancock Electronics Corp 2553 Middlefield Rd Redwood City Calif 11 Hanson-Gorrill-Brian 85 Hazel St Glen Cove NY Hartman Electrical Mfg Co 175 N Diamond St Mansfield Ohio Hoover Electronics Co 3640 Woodland Ave Baltimore 7 Md Hughey & Phillips 3300 N San Fernando Blvd The St S
Telex 1633 Eustis St St Paul 1 Minn Telker Inc N Murray Ridge Rd Elyria Ohio Thale Eng'g Corp 2104 E Villa St Pasadena Calif Thomas & Betts Co 36 Butler St Elizabeth NJ 28-2 Thompson-Bremer & Co Sub American Machine & Fdry 520 N Dearborn St Chicago 10 III Thor Ceramics Inc	33 40 34	Tuners, automatic	Hammarlund Mfg Co 460 W 34 St New York 1 NY Hancock Electronics Corp 2553 Middlefield Rd Redwood City Calif 11 Hanson-Gorrill-Brian 85 Hazel St Glen Cove NY Hartman Electrical Mfg Co 175 N Diamond St Mansfield Ohio Hoover Electronics Co 3640 Woodland Ave Baltimore 7 Md Hughey & Phillips 3300 N San Fernando Blvd Burbank Calif Hupp Electronics Co Div Hupp Corp
Telex 1633 Eustis St St Paul 1 Minn Telker Inc N Murray Ridge Rd Elyria Ohio Thale Eng'g Corp 2104 E Villa St Pasadena Calif Thomas & Betts Co 36 Butler St Elizabeth NJ Thompson-Bremer & Co Sub American Machine & Fdry 520 N Dearborn St Chicago 10 Ill Thor Ceramics Inc 225 Belleville Ave Bloomfield NJ	33 40 34 29-35-38	Adler Electronics Inc 1 LeFevre Lane New Rochelle NY Alliance Mfg Co Lake Park Blvd Alliance Ohio Allis-Chalmers Mfg Co Milwaukee 1 Wis Altec Lansing Corp 1515 S Manchester Ave Anaheim Calif American Metrix Corp 40 Haddon Ave Camden 3 NJ Anton Electronic Labs 1226 Flushing Ave Brooklyn 6 NY	Hammarlund Mfg Co 460 W 34 St New York 1 NY Hancock Electronics Corp 2553 Middlefield Rd Redwood City Calif 11 Hanson-Gorrill-Brian 85 Hazel St Glen Cove NY Hartman Electrical Mfg Co 175 N Diamond St Mansfield Ohio Hoover Electronics Co 3640 Woodland Ave Baltimore 7 Md Hurhey & Phillips 3300 N San Fernando Blvd Burbank Calif Hupp Electronics Co Div Hupp Corp 743 Circle Ave Forest Park Ill 5-7-12
Telex 1633 Eustis St St Paul 1 Minn Telker Inc N Murray Ridge Rd Elyria Ohio Thale Eng'g Corp 2104 E Villa St Pasadena Calif Thomas & Betts Co 36 Butler St Elizabeth NJ 28-2 Thompson-Bremer & Co Sub American Machine & Fdry 520 N Dearborn St Chicago 10 Ill Thor Ceramics Inc 225 Belleville Ave Bloomfield NJ Torwico Electronics Inc	33 40 34 29-35-38 35 39	Adler Electronics Inc 1 LeFevre Lane New Rochelle NY Alliance Mfg Co Lake Park Blvd Alliance Ohio Allis-Chalmers Mfg Co Milwaukee 1 Wis Altec Lansing Corp 1515 S Manchester Ave Anaheim Calif American Metrix Corp 40 Haddon Ave Camden 3 NJ Anton Electronic Labs 1226 Flushing Ave Brooklyn 6 NY Askania Regulator Co	Hammarlund Mfg Co 460 W 34 St New York 1 NY Hancock Electronics Corp 2553 Middlefield Rd Redwood City Calif 11 Hanson-Gorrill-Brian 85 Hazel St Glen Cove NY Hartman Electrical Mfg Co 175 N Diamond St Mansfield Ohio Hoover Electronics Co 3640 Woodland Ave Baltimore 7 Md Hughey & Phillips 3300 N San Fernando Blvd Burbank Calif Hupp Electronics Co Div Hupp Corp 743 Circle Ave Forest Park Ill 5-7-12 Illumitronic Eng's Co
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Telex 1633 Eustis St St Paul 1 Minn Telker Inc N Murray Ridge Rd Elyria Ohio Thale Eng'g Corp 2104 E Villa St Pasadena Calif Thomas & Betts Co 36 Butler St Elizabeth NJ 28-2 Thompson-Bremer & Co Sub American Machine & Fdry 520 N Dearborn St Chicago 10 Ill Thor Ceramics Inc 225 Belleville Ave Bloomfield NJ Torwico Electronics Inc 1090 Morris Ave Union NJ Triad Transformer Corp 4055 Redwood Ave Venice Calif	33 40 34 29-35-38 35 39	Adler Electronics Inc 1 LeFevre Lane New Rochelle NY Alliance Mfg Co Lake Park Blvd Alliance Ohio Allis-Chalmers Mfg Co Milwaukee 1 Wis Altec Lansing Corp 1515 S Manchester Ave Anaheim Calif American Metrix Corp 40 Haddon Ave Camden 3 NJ Anton Electronic Labs 1226 Flushing Ave Brooklyn 6 NY Askania Regulator Co 240 E Ontario St Chicago 11 Ill Avion Div ACF Industries Inc 11 Park Pl Paramus NJ	Hammarlund Mfg Co 460 W 34 St New York 1 NY Hancock Electronics Corp 2553 Middlefield Rd Redwood City Calif 11 Hanson-Gorrill-Brian 85 Hazel St Glen Cove NY Hartman Electrical Mfg Co 175 N Diamond St Mansfield Ohio Hoover Electronics Co 3640 Woodland Ave Baltimore 7 Md Huxhey & Phillips 3300 N San Fernando Blvd Burbank Calif Hupp Electronics Co Div Hupp Corp 743 Circle Ave Forest Park Ill Illumitronic Eng'g Co 680 E Taylor Ave Sunnyvale Calif Industrial Research Labs Div Aeronea Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md 4-9
Telex 1633 Eustis St St Paul 1 Minn Telker Inc N Murray Ridge Rd Elyria Ohio Thale Eng'g Corp 2104 E Villa St Pasadena Calif Thomas & Betts Co 36 Butler St Elizabeth NJ Thompson-Bremer & Co Sub American Machine & Fdry 520 N Dearborn St Chicago 10 Ill Thor Ceramics Inc 225 Belleville Ave Bloomfield NJ Torwico Electronics Inc 1090 Morris Ave Union NJ Triad Transformer Corp	33 40 34 29-35-38 35 39 35-36	Adler Electronics Inc 1 LeFevre Lane New Rochelle NY Alliance Mfg Co Lake Park Blvd Alliance Ohio Alis-Chalmers Mfg Co Milwaukee 1 Wis Altec Lansing Corp 1515 S Manchester Ave Anaheim Calif American Metrix Corp 40 Haddon Ave Camden 3 NJ Anton Electronic Labs 1226 Flushing Ave Brooklyn 6 NY Askania Regulator Co 240 E Ontario St Chicago 11 Ill Avion Div ACF Industries Inc 11 Park Pl Paramus NJ Avionics Ltd P O Box 200	Hammarlund Mfg Co 460 W 34 St New York 1 NY Hancock Electronics Corp 2553 Middlefield Rd Redwood City Calif 11 Hanson-Gorrill-Brian 85 Hazel St Glen Cove NY Hartman Electrical Mfg Co 175 N Diamond St Mansfield Ohio Hoover Electronics Co 3640 Woodland Ave Baltimore 7 Md Hughey & Phillips 3300 N San Fernando Blvd Burbank Calif Hupp Electronics Co Div Hupp Corp 743 Circle Ave Forest Park Ill S-7-12 Illumitronic Eng'g Co 680 E Taylor Ave Sunnyvale Calif Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Leveld Electronics COTD
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Leach Corp Inet-Palmer Div 4441 S Santa Fe Ave Los Angeles 58 Calif 6	WacLine Inc 35 S St Clair St Dayton 2 Ohio 4-6-10	A R F Products Inc
Lear Inc	Walkirt Co	7627 Lake St River Forest Ill 9 Arrow-Hart & Hegeman Electric Co
3171 S Bundy Drive Santa Monica Calif 6 Lenkurt Electric Co	141 W Hazel St Inglewood 3 Calif 4 Warren Mfg Co	103 Hawthorn St Hartford 3 Conn 30
1105 County Rd San Carlos Calif 10	Newtown Rd Littleton Mass 4	Askania Regulator Co
Lumenite Electronic Co	Winder Aircraft Corp of Florida	240 E Ontario St 2-3-7-8-11-13-18-20-21 Chicago 11 Ill 27-28-29-30-34
407 S Dearborn St Chicago 5 Ill 5-7 Magnetic Research Corp	P O Box 2397 Drane Field Lakeland Fla 5	Assembly Products Inc
3160 W El Segundo Blvd Hawthorne Calif 4	Worner Electronic Devices	Wilson Mills Rd 1-11-20-24-26-28-30-33 Chesterland 1 Ohio 42-50-52-58-67-68
Manson Laboratories Inc	Rankin Ill 5-12	Atlas Electric Products Co
207 Greenwich Ave Stamford Conn 10 Maxson Instruments Div W L Maxson Corp	22 CONTROL FOURNISH	P O Box 1591 Erie Pa
47-37 Austell Pl	22—CONTROL EQUIPMENT,	Auburn Spark Plug Co 89 York St Auburn NY 25
Long Island City 1 NY 4 Michigan Electronics Inc	INDUSTRIAL	Automatic Control Co
854 N Rockwell St Chicago 22 Ill 5-10	Controls along sustains	995 University Ave St Paul 4 Minn. 1-25
Minneapolis-Honeywell Regulator Co	Controls, alarm system 1 Controls, chemical 2	Automatic Switch Co Hanover Rd Florham Park NJ 11-26-30
Industrial Div Wayne & Windrim Aves Philadelphia 44 Pa	Controls, combustion 3	Autonetics Div North American Aviation
Mutual Electronic Industries Corp	Controls, computer 4	9150 E Imperial Hwy Downey Calif
85 Beechwood Ave New Rochelle NY 5	Controls, conductivity 5	Autron Eng'g Inc 1254 W 6 St 6-11-19-25
National Aircraft Corp 3411 Tulare Ave Burbank Calif 6	Controls, counting & sorting 6	Los Angeles 17 Calif 26-32-34-35
Nemeth Inc	Controls, density 7	Autotron Inc 3629 N Vermilion St Danville Ill 34
2223 S Carmelina Ave	Controls, dimension 8	Avion Div ACF Industries Inc
Los Angeles 64 Calif Nevada Air Products Co	Controls, door 9	11 Park Pl Paramus NJ
P O Box 2472 Reno Nev 14	Controls, dynamometer 10	Avionics Ltd PO Box 200 Niagara-on-the-Lake
Norman Laboratories Ernst Williams Bay Wis 4	Controls, electronic 11	Ontario Canada 11-15-25-27-29-34
Williams Bay Wis North Electric Co	Controls, elevator 12	Avtron Mfg Inc
553 S Market St Galion Ohio 5-9-10	Controls, film thickness 13	10409 Meech Ave Cleveland 5 Ohio 10-11 Bailey Meter Co
Nuclear-Electronics Corp 2632 W Cumberland St Philadelphia 32 Pa 7	Controls, fire	1050 Ivanhoe Rd 3-5-7-16-17-18-
O'Brien Electric Corp	Controls, flame failure 15	Cleveland 10 Ohio 21-22-25-33
6514 Santa Monica Blvd	Controls, fluid flow 16	Baird-Atomic Inc 33 University Rd
Hollywood 38 Calif Ohmite Mfg Co	Controls, food processing 17	Cambridge 38 Mass 6-11-16-34
3601 Howard St Skokie Ill 6	Controls, gas	Barber-Colman Co Rock St Rockford Ill 3-11-15-16-21-22
Otis Elevator Co Electronic Div	Controls, grading & sorting 19 Controls, guided missile 20	Barlowe Television
35 Ryerson St Brooklyn 5 NY 10 Painton & Co Ltd c/o British	Controls, heat treating 21	402 N Wantagh Ave Bethpage NY 11-25
Electronic Sales Co Box 132	Controls, humidity 22	Barnes Development Co 213 W Baltimore Pike Lansdowne Pa 6-19
Oakland Gardens 64 NY 1-3 Pantek Co	Controls, illumination 23	Barton Electronics Inc
P O Box 212 El Segundo Calif 4	Controls, inspection 24	1000 Farmington Ave
Par Products Corp	Controls, liquid level 25	W Hartford 7 Conn 6-9-11-19-25-28-34 Basic Controls Co
602 Colorado Ave Santa Monica Calif 8 Photo Crystals Inc	Controls, machine safety 26	1714 Westwood Blvd 1-6-7-9-11-19-
15 S 1 St Geneva Ill 8-12	Controls, materials thickness 27	Los Angeles 24 Calif 21-23-25-34
Photobell Co	Controls, mechanical overload 28	Beckman Instruments Inc Process Instruments Div 2500 Fullerton Rd
43 Vesey St New York 7 NY 5-7-12 Photographic Products Inc	Controls, moisture 29	Fullerton Calif 2-29-3"
1000 N Olive St Anaheim Calif 8	Controls, motor & generator 30	Beckman Scientific Instruments Inc Data & Control Systems Scientific Instrument Div
Precision Crystal Lab 2223 Warwick Ave Santa Monica Calif 4	Controls, oxygen 31	325 N Muller Ave Anaheim Calif 2-4
Production Research Corp	Controls, package wrapping 32	Belfab Corp
Thornwood NY 5	Controls, pH	11 Ramah Circle Agawam Mass 16-25
Thornwood NY PSC Applied Research Ltd	Controls, pH	
Thornwood NY PSC Applied Research Ltd 1500 O'Connor Dr Toronto 16 Canada 18 Pye Canada Ltd	Controls, pH	11 Ramah Circle Agawam Mass Bell Aircraft Corp PO Box 1 Buffalo 5 NY Belock Instrument Corp
Thornwood NY PSC Applied Research Ltd 1500 O'Connor Dr Toronto 16 Canada 18 Pye Canada Ltd 82 Northline Rd	Controls, pH	11 Ramah Circle Agawam Mass Bell Aircraft Corp PO Box 1 Buffalo 5 NY Belock Instrument Corp 111-01 14 Ave
Thornwood NY PSC Applied Research Ltd 1500 O'Connor Dr Toronto 16 Canada 18 Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada 10.11	Controls, pH       33         Controls, photoelectric       34         Controls, photographic       35         Abbeon Supply Co       179-15 Jamaica Ave Jamaica 32 NY 22-29	11 Ramah Circle Agawam Mass Bell Aircraft Corp PO Box 1 Buffalo 5 NY Belock Instrument Corp 111-01 14 Ave College Point 56 NY Bendix Aviation Corp Pacific Div
Thornwood NY  PSC Applied Research Ltd 1500 O'Connor Dr Toronto 16 Canada 18 Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada 10-11 Pye Telecommunications Ltd Newmarket Rd Cambridge England 2-3-10	Controls, pH       33         Controls, photoelectric       34         Controls, photographic       35         Abbeon Supply Co       179-15 Jamaica Ave Jamaica 32 NY 22-29         Accurate Eng'g Co	11 Ramah Circle Agawam Mass Bell Aircraft Corp PO Box 1 Buffalo 5 NY Belock Instrument Corp 111-01 14 Ave College Point 56 NY Bendix Aviation Corp Pacific Div 11600 Sherman Way
Thornwood NY  PSC Applied Research Ltd 1500 O'Connor Dr Toronto 16 Canada 18 Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada 10-11 Pye Telecommunications Ltd Newmarket Rd Cambridge England Rich Electronics Inc	Controls, pH       33         Controls, photoelectric       34         Controls, photographic       35         Abbeon Supply Co       179-15 Jamaica Ave Jamaica 32 NY       22-29         Accurate Eng'g Co       2005 Blue Island Ave Chicago 8 Ill       30         Acoustica Associates       30	11 Ramah Circle Agawam Mass   16-25
Thornwood NY PSC Applied Research Ltd 1500 O'Connor Dr Toronto 16 Canada 18 Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada 10-11 Pye Telecommunications Ltd Newmarket Rd Cambridge England 2-3-10 Rich Electronics Inc 212 N W 8 Ave Miami 36 Fla 14 Robotron Corp	Controls, pH	11 Ramah Circle Agawam Mass   16-25
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Thornwood NY PSC Applied Research Ltd 1500 O'Connor Dr Toronto 16 Canada 18 Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada 10-11 Pye Telecommunications Ltd Newmarket Rd Cambridge England 2-3-10 Rich Electronics Inc 212 N W 8 Ave Miami 36 Fla 14 Robotron Corp 21300 W 8 Mile Rd Detroit 19 Mich Royal Communication Systems 11462 Euclid Ave Cleveland 6 Ohio 10 Schafer Custom Eng'g 235 S 3 St Burbank Calif Scott Inc H H 385 Putnam Ave Cambridge 39 Mass 1 Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY New Hyde Park NY Servo-Tek Products Co 1086 Goffle Rd Hawthorne NJ Skiatron Electronics & TV Corp 180 Varick St New York 14 NY Specialty Eng'g & Electronics Co 79 Clifton Pl Brooklyn 38 NY Stewart Corp F W 4211 Ravenswood Ave Chicago 13 Ill 10-11 Tabet Mfg Co 1336 Ballentine Blvd Norfolk 12 Va 17 Iller & Cooper 75 Front St Brooklyn 1 NY 11-13 Tarc Electronics Inc 48 Urban Ave Weestbury LI NY 12 Ranick Dr Amityville LI NY 140 W 58 St New York 19 NY 17 Imper Facsimile Corp 140 W 58 St New York 19 NY 17 Inptronic Inc 14 & Franklin Sts Tipp City Ohio	Controls, photoelectric 34 Controls, photoelectric 34 Controls, photographic 35  Abbeon Supply Co 179-15 Jamaica Ave Jamaica 32 NY 22-29 Accurate Eng'g Co 2005 Blue Island Ave Chicago 8 Ill 30 Acoustica Associates Shore Rd Glenwood Landing LI NY 1-9-20-25 Advanced Electronics Inc 94 Silas Deane Hwy Rocky Hill 9 Conn 11-24 Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 11-26-32 Advance Instrument Corp 1709 F St Belmar NJ 11 Aero Electronics Co 1512 N Wells St Chicago 10 Ill 11-20 AiResearch Mfg Co Div Garret Corp 9851 Sepulveda Blvd Los Angeles 45 Calif 11-30-31 Airmatic Valve Inc 7314 Associate Ave Cleveland 9 Ohio 16 Airmec Ltd High Wycombe Buckinghamshire England 6-11-25-34 Allen-Bradley Co 136 W Greenfield Ave Milwaukee 4 Wis 11-25-30 Alliance Mfg Co Lake Park Blvd Alliance Ohio Allied Eng'g & Production Corp 2421 Blanding Ave Alameda Calif 26 Allis-Chalmers Mfg Co Milwaukee 1 Wis 30 American Communications Corp 280 Broadway New York 17 NY 1 American Instrument Co 8030 Georgia Ave Silver Spring Md 13-22-29	11 Ramah Circle Agawam Mass   16-25
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Thornwood NY PSC Applied Research Ltd 1500 O'Connor Dr Toronto 16 Canada 18 Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada 10-11 Pye Telecommunications Ltd Newmarket Rd Cambridge England 12-3-10 Rich Electronics Inc 212 N W 8 Ave Miami 36 Fla 14 Robotron Corp 21300 W 8 Mile Rd Detroit 19 Mich Royal Communication Systems 11462 Euclid Ave Cleveland 6 Ohio 10 Schafer Custom Eng'g 235 S 3 St Burbank Calif Scott Inc H H 385 Putnam Ave Cambridge 39 Mass 1 Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY Servo-Tek Products Co 1086 Goffle Rd Hawthorne NJ Skiatron Electronics & TV Corp 180 Varick St New York 14 NY Specialty Eng'g & Electronics Co 79 Clifton Pl Brooklyn 38 NY Stewart Corp F W 4211 Ravenswood Ave Chicago 13 Ill 10-11 Tabet Mfg Co 1336 Ballentine Blvd Norfolk 12 Va 10 Taller & Cooper 75 Front St Brooklyn 1 NY 11-13 Tarc Electronics Inc 48 Urban Ave Westbury LI NY 28 Ranick Dr Amityville LI NY Telephonics Corp 218 Ranick Dr Amityville LI NY Telephonics Corp 228 Ranick Dr Amityville LI NY Telephonics Corp Park Ave Huntington LI NY Telephonics Corp 540 W 58 St New York 1 NY Times Facsimile Corp 540 W 58 St New York 1 NY Tipptronic Inc 4 & Franklin Sts Tipp City Ohio TV Specialty Co 350 W 31 St New York 1 NY United Electric Controls Co River Rd & B& OR R	Controls, photoelectric 34 Controls, photoelectric 34 Controls, photographic 35  Abbeon Supply Co 179-15 Jamaica Ave Jamaica 32 NY 22-29 Accurate Eng'g Co 2005 Blue Island Ave Chicago 8 Ill 30 Acoustica Associates Shore Rd Glenwood Landing LI NY 1-9-20-25 Advanced Electronics Inc 94 Silas Deane Hwy Rocky Hill 9 Conn 11-24 Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 11-26-32 Advance Instrument Corp 1709 F St Belmar NJ 11 Aero Electronics Co 1512 N Wells St Chicago 10 Ill 11-20 AiResearch Mfg Co Div Garret Corp 9851 Sepulveda Blvd Los Angeles 45 Calif 11-30-31 Airmatic Valve Inc 7314 Associate Ave Cleveland 9 Ohio 16 Airmec Ltd High Wycombe Buckinghamshire Ave Cleveland 9 Ohio 16 Airmec Ltd High Wycombe Buckinghamshire England 6-11-25-34 Allen-Bradley Co 136 W Greenfield Ave Milwaukee 4 Wis 11-25-30 Alliance Mfg Co Lake Park Blvd Alliance Ohio Allied Eng'g & Production Corp 2421 Blanding Ave Alameda Calif 26 Allis-Chalmers Mfg Co Milwaukee 1 Wis 30 American Communications Corp 280 Broadway New York 17 NY 1 American Instrument Co 8030 Georgia Ave Silver Spring Md 13-22-29 American Machine & Foundry Co Defense Products Group 1101 N Royal St Alexandria Va 20-24-25-27-28 American Metrix Corp 40 Haddon Ave Camden 3 NJ 23 American Rectifier Corp 95 Lafayette St New York 13 NY 12 Analogue Controls Inc	11 Ramah Circle Agawam Mass   16-25

Canadian Aviation Electronics Ltd	Electronic Contractors Inc	Hays Mfg Co
6214 Cote de Liesse Rd	2101 SE 6 Ave Portland 14 Ore 4	12 & Liberty Sts Erie Pa 16
St Laurent Quebec Canada 33	Electronic Control Corp	Healy-Ruff Co
Cash Valve Mfg Corp A W	1573 E Forest Ave	2255 University Ave St Paul 14 Minn 25
666 E Wabash Ave Decatur Ill 16	Detroit 7 Mich 6-8-11-19-23-26-34	Hewson Co 443 Broad St Newark 2 NJ 16
Central Electronics Mfrs Inc	Electronic Control Systems 2136 Westwood Blvd	Holland Electronics
Sub Nuclear Corp of America 2 Richwood Pl Denville NJ 11-25-27-33	Los Angeles 25 Calif 11	2133 Central Dr S
Century Engineers	Electronic Machine Parts Inc	East Meadow NY 6-34
2741 N Naomi St Burbank Calif 11	204 Lafayette St New York 12 NY 32	Hoover Electronics Co
Century Lighting Inc	Electronics Corp of America	3640 Woodland Ave Baltimore 7 Md 6-11-19
521 W 43 St New York 36 NY 23	1 Memorial Dr	Hupp Electronics Co Div Hupp Corp
Chicago Aerial Industries Inc 1980 N Hawthorne Ave	Cambridge 42 Mass 3-7-9-15-23-25-34	743 Circle Ave Forest Park III 6-9-12-15-23-34
Melrose Park Ill 8-27	Electronic Specialty Co 5121 San Fernando Rd	Huppert Co K H
Cinema Eng'g Div Aerovox Corp	Los Angeles 39 Calif 1-11-20	6830 Cottage Grove Ave
1100 Chestnut St Burbank Calif 11	Electron-Radar Products	Chicago 37 Ill 21
Cinema-Television Ltd	4806 W Chicago Ave	Ideal-Aerosmith Inc
Worsley Bridge Rd Lower Sydenham	Chicago 51 Ill 3-6-15-22-29-34	12909 S Cerise Ave Hawthorne Calif 11-20
London S E 26 England 5-8 Clark Controller Co	Electro-Physics Co 287 Broadway New York 7 NY 34-35	Ideal Electric & Mfg Co 300 E 1 St Mansfield Ohio 30
1146 E 152 St	287 Broadway New York 7 NY 34-35 Electro Products Labs Inc	Illinois Testing Labs Inc
Cleveland 10 Ohio 11-14-16-28-30-34	4501 N Ravenswood Ave Chicago 40 Ill 6	420 N LaSalle St Chicago 18 Ill 21
Cleveland Instrument Co	El-Tronics Inc	Illumitronic Eng'g Co
735 Carnegie Ave Cleveland 15 Ohio 6-8	Penn Ave Mayfield Pa 22	680 E Taylor Ave Supplyvale Calif 11-17-23-32
Colorado Research Corp	Emmett Machine & Mfg	Duiting ( and  a mana
4697 E Evans Ave Denver 22 Colo 11 Conoflow Corp	445 E Turkeyfoot Lake Rd Akron 19 Ohio 6	Indikon Co 76 Coolidge Hill Rd
2100 Arch St	Ess Instrument Co	Watertown 72 Mass 11
Philadelphia 3 Pa 16-17-18	96 S Washington Ave	Industrial Control Co
Consolidated Avionics Corp	Bergenfield NJ 32-34	805 Albin Ave Lindenhurst LI NY 11-20-30
66 Brooklyn Ave Westbury NY 4-6-8-13-20-27	Fairchild Controls Corp Components Div	Industrial Electronic Engineers
Consolidated Productions Inc Broward Int'l Airport	225 Park Ave Hicksville LI NY 11	3973 Lankershim Blvd N Hollywood Calif 4-11-19-20
Ft Lauderdale Fla 11-20	Farmer Electric Products Co 2300 Washington St	Industrial Electronics Inc
Continental Electronics Ltd	Newton Lower Falls 62 Mass 34	8060 Wheeler St
302 Oakland St Brooklyn 22 NY 1-4	Farnsworth Electronics Co Div IT&T	Detroit 10 Mich 8-11-26-27-29-34
Controlled Atmosphere Enclosures Corp	3702 E Pontiac St Ft Wayne Ind 11	Industrial Instruments Inc
280-11 141 Ave	Fenwal Inc	89 Commerce Rd Cedar Grove NJ 5-6
Springfield Gardens 13 LI NY 22-29 Control Specialty Corp	Pleasant St 3-14-15-16- Ashland Mass 17-21-25	Industrial Nucleonics Corp 1205 Chesapeake Ave
	Ashland Mass 17-21-25 Ferranti Electric Inc	Columbus 12 Ohio 11-13-24-27
Cook Electric Co	30 Rockefeller Plaza New York 20 NY 4	Industrial Research Labs
2700 Southport Ave Chicago 14 Ill 1-11-26	Fielden Instrument Div	Div Aeronca Mfg Corp
Corbin Corp	Robertshaw-Fulton Controls Co	Hilltop & Frederick Rds
5419 56 Pl Riverdale Md 22-31	2920 N 4 St	Baltimore 28 Md 11-20-34
Corona Eng'g Service	Philadelphia 38 Pa 5-17-22-25-27-29	Industrial Test Equipment Co 55 E 11 St New York 3 NY 11
94-52 Corona Ave Elmhurst 73 NY 11-25-34	Fischer & Porter Co 478 Warminster Rd 1-2-3-4-6-7-8-11-16-17-	Instrumentation Associates
Crescent Eng'g & Research Co	Hatboro Pa 18-21-22-25-31	17 W 60 St New York 23 NY 31
5440 N Peck Rd El Monte Calif 8-11-13-16	Fisher Governor Co	Instruments Inc
Curtiss-Wright Corp Electronics Div	Marshalltown Iowa 25	122 N Madison St Tulsa Okla 7-25
631 Central Ave Carlstadt NJ 11-13-17-25	Fisher Peirce Co	International Business Machines Corp
Cutler-Hammer Inc	170 Pearl St	590 Madison Ave New Tork 25 112
315 N 12 St Milwaukee 1 Wisc 11-16-18-25-28-30	S Braintree 85 Mass 23-34 Fisher Scientific Co	I Q Industries 1714 Westwood Blvd 1-6-7-9-11-19
Dalmo Victor Co Div Textron Inc	711 Forbes St Pittsburgh 22 Pa 2-7-25-33	Los Angeles 24 Calif 21-23-25-34
1515 Industrial Way Belmont Calif 3-11	FluiDyne Eng'g Corp	Irwin Labs
Daven Co	425 N 7 St	1238 S Gerhart Ave
Route 10 Livingston NJ 11	Minneapolis 6 Minn 1-4-11-16-26	Hos Angeles 22 Cutil
Davenport Mfg Co	Ford Instrument Co Div Sperry Rand Corp	Isotope Products
1713 N Ashland Ave Chicago 22 Ill 5-6-11-34 Dayton Aviation Radio & Equipment Corp	31-10 Thomson Ave Long Island City 1 NY 4-11	1711 Elmwood Ave Buffalo 7 NY 7-13-24-25-29
RR 3 Troy Ohio	Friez Instrument Div Bendix Aviation Corp	Jo-Bell Products Inc
Daytronic Corp	1400 Taylor Ave Baltimore 4 Md 22-29	5456 W 111 St Oak Lawn Ill 25
216 S Main St Dayton 2 Ohio 8-11	Furnas Electric Co	Johnson Corp
Defender Instrument & Regulator Co	1000 McKee St Batavia III 25	800 WOOD St Three Tervers 12192
Boody Ill 3-14-16-18-25 Deitz Co S J	Garrett Corp AiResearch Mfg Co Div 9851 Sepulveda Blvd	Johnson Service Co 507 E Michigan St Milwaukee 1 Wis 22
9 E Wesley St S Hackensack NJ 11-32-34	Los Angeles 45 Calif 11-31	Kahlenberg Bros
Deltron Inc	General Controls Co	1700 13 St Two Rivers Wisc
2905 N Leithgow St	801 Allen Ave 3-15-16-17-	Kahl Scientific Instrument Corp
Philadelphia 33 Pa 25-34	Glendale 1 Calif 18-22-25	
Denison Eng'g Div American Brake Shoe 1160 Dublin Rd Columbus 16 Ohio 16	General Electric Co	Kaiser Aircraft & Electronics Corp Toledo Electronics Div
Denrad Mfg Co	Apparatus Sales Div 1 River Rd 9-11-12-15-21-	PO Box 437 Toledo Ohio
310 W Woodard St Denison Texas 11-34	Schenectady 5 NY 23-25-26-34	Kollsman Instrument Corp Standard
Devol Research Co	General Radio Co	Coil Products 80-08 45 Ave
Brookside Dr Greenwich Conn 19	275 Massachusetts Ave	Elmhurst 78 NY LaMotte Chemical Products Co
Devco Eng'g Inc PO Box 387 1-2-3-5-6-16-18	Cambridge 39 Mass 23 Giannini & Co G M	Chestertown Md 38
Caldwell NJ 23-25-26-32-34	918 E Green St	Larson Instrument Co
Diatron Co	Pasadena Calif 1-4-11-14-16-20	24 Orchard St Tarrytown, NY 3-7-11-34
3327 Dixie Dr Houston 21 Texas 1	Glens Falls Lab	Leach Corp Inet-Palmer Div
Dietz Co Henry G	Box 685 Glens Falls NY 34	4441 S Santa Fe Ave
12-16 Astoria Blvd Long Island City 2 NY 25 Dunlap Electronics	Gordon Enterprises	Los Angeles 58 Calif Lear Inc
764 9 St Des Moines 14 Iowa 1-6-26-34	5362 N Cahuenga Blvd N Hollywood Calif 35	3171 S Bundy Drive
Dynamics Research Associates	Grafton Eng'g Co	Santa Monica Calif 11-16-18-30
Div Universal Match Corp 1-4-11-16-17-	628 Vernon Rd Springfield Pa 4	Leeds & Northrup Co
PO Box 5841 Ferguson 21 Mo 18-20-25-28-34	Guardian Electric Mfg Co	4970 Stenton Ave Philadelphia 44 Pa 3-5-11-21-31-33
Eastman Kodak Co	1621 W Walnut St Chicago 12 Ill 25	2 mile 10 mile
343 State St Rochester 4 NY 35 Eclipse Fuel Eng'g Co	Guild Electronics Inc 388 Broadway New York 13 NY 32	Lennard Co P M P O Box 56 Village Sta New York 14 NY 22
1100 Buchanan Rockford III 3-15-21	388 Breadway New York 13 NY 32 Hagan Chemicals & Controls Inc	Leslie Co
Edison Industries Thomas A Instrument Div	Hagan Bldg 2-3-4-5-7-10-11-16-	Lyndhurst NJ 25
93 Lakeside Ave W Orange NJ 11	Pittsburgh 30 Pa 18-21-25-28-33	Librascope Inc
Electrical Communications Inc	Hallamore Electronics Co	808 Western Ave Glendale Calif 4-20
765 Clementina St	8352 Brookhurst Ave Anaheim Calif 11	Liquidometer Corp
San Francisco 3 Calif 1-5-6-11-20-24-30	Hallicrafters Co	41-03 36 St Long Island City 1 NY 25
Electrical Service Co 1271 Mission St 1-6-11-15-	4401 W 5 Ave Chicago 24 Ill 27	Litton Industries of Calif
San Francisco 3 Calif 19-23-26-34	Hammarlund Mfg Co 460 W 34 St New York 1 NY 1-11	336 N Foothill Rd Beverly Hills Calif 4-11-20
Electric Eye Equipment Co	460 W 34 St New York 1 NY 1-11 Hansen Co Wm	LogEtronics Inc
1941 E Fairchild St	165 Silverbrook Ave Niles Mich 29	500 E Monroe Ave Alexandria Va 35
Danville III 11-13-27-29-34	Hanson-Gorrill-Brian	Lumenite Electronic Co
Electric Machinery Mfg Co 800 Central Ave Minneapolis 13 Minn .30	85 Hazel St Glen Cove NY 30	407 S Dearborn St
Electric Regulator Corp	Hart Mfg Co	Chicago 5 Ill 1-11-17-25-34
Pearl St Nerwalk Conn 30	128 Bartholemew Ave Hartford 1 Conn 11	Lunkenheimer Co Beekman St & Waverly Ave
	Hays Corp	Cincinnati 14 Ohio 25
Electro-Devices Inc	Michigan City Ind 3-16-18-25	Cincinnati 14 Onto

Machinery Electrification Inc
Northboro Mass
Mack Electronics Div Mack Trucks Inc 40 Leon St Boston 15 Mass
Magnetic Amplifiers Inc 632 Tinton Ave
632 Tinton Ave New York 55 NY Mallory & Co Inc P R 42 S. Grey & Latter 1
42 S Gray St Indianapolis 6 Ind Manning Maxwell & Moore Inc Shelter Rock Lane Danbury Conn 15-16-20 Measurement Eng's 144
Shelter Rock Lane Danbury Conn 15-16-20 Measurement Eng'g Ltd
232 John St Arnprior Ontario Can 11 84
4201 Belmont Ave Chicago 41 III 1-3-25
200 S Harding St
Indianapolis Ind Michigan Electronics Inc
Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill Milgo Electronic Corp.
Milgo Electronic Corp 7601 N W 37 Ave Miami 47 Fla 14-20 Miller-Trojan Co
3 North Ridge Ave Troy Ohio 35 Milwaukee Gas Specialty Co
730 N Jackson St Milwaukee 1 Wisc 18 MinAtron Corp
Belle Mead 9 N.I
Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd
Minneapolis Minn 11-25-31 Minn-Honeywell Regulator Co
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Industrial Div Wayne & Windrim Aves Philadelphia 44 Pa Modern Laboratory Equip Co 1811 1 Ave New York 28 NY Motordyne Inc.
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2661 S. Mysetla Ass. M
Multi-Products Co 21470 Coolidge Hwy
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Mutual Electronic Industries Corp 85 Beechwood Ave New Rochelle NY 23
85 Beechwood Ave New Rochelle NY 23 Nagor Associates Inc Littleton Mass 11-34 National Aircraft Corp
National Bell Corp
6 Lafayette Ave Brooklyn 17 NY Naybor Laboratories Inc E V 2 Yennicock Ave Port Washington NY 7
2223 S Carmelina Ave Los Angeles 64 Calif 6-20-34-35
PO Box 2472 Reno Nev 11.20
15 Word St Plantfill NY
North American Instruments Inc
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Hanover Mass PSC Applied Research Ltd	
Pye Canada Ltd	3
82 Northline Rd Toronto 16 Ontario Canada Pye Telecommunications Ltd	29-3
Newmarket Rd Cambridge England Quantametric Devices Inc	
Box 1107 Binghamton NY Quaré Associates	3
Canton Mass Radionics Inc PO Box 186 Cockeysville Md	5 <b>-</b> 3
Rabm Instruments Inc	2
Ransom Research 323 W 7 St San Pedro Calif Reeves Instrument Comp	4-3
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Wallingford Conn Rich Electronics Inc 212 NW 8 Ave Miami 36 Fla	16-25
Ripley Co	20-34 25-34
Robinette Co W C 802 Fair Oaks Ave S Pasadena Calif	20-04
Robotron Corp	11-30
21300 W 8 Mile Rd Detroit 19 Mich Rockwell Eng'g Co 2133 E 45 St Indianapolis 5 Ind	11 34
Ronan & Kunzl 502 S Kalamazoo Ave	
Marshall Mich Scaico Controls Inc Market St. Palmyra NI	9
Scantlin Electronics Inc 11624 W Pico Blvd	11-21
Los Angeles 64 Calif Scientific Glass Apparatus Co 100 Lakewood Terrace	34
Bloomfield NJ 18-: Schirmer-National Alarm Co	31-33
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Schulmerich Electronics Inc	30 11
Seaboard Electric Products Corn 417 Canal St New York 13 NY Seneca Falls Machine Co	1
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Pleasantville Pd New Vernon NJ 6-8-19-24-3	32-34
Serdex Inc 91 Cambridge St Boston 14 Mass	22
Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY	1-21
ervomechanisms Inc 12500 Aviation Blyd Hawthorne Calif	11
ervo-lek Products Co	5-30
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Telechrome Mfg Corp	
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Ft Lauderdale Fla	9-1
Telemeter Magnetics Inc 2245 Pontius Ave	
Los Angeles 64 Calif	4-11-2
Telectronics Lab Inc 54 Kinkel St Westbury NY	2
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311 W 43 St New York 36 N Temperature Eng'g Corp	
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Trans Electronics Inc 7349 Canoga Ave Canoga Park	Calif
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United Control Corp 4540 Union Bay Pl Seattle 5 Wa	ash 1-11-2
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United Transformer Corp Pacific 4008 W Jefferson Blvd Los Angeles 16 Calif Uniwave Inc 2 Marine St Farmingdale NY US Controls Ine 161 Grand St New York 13 NY 240 Vapor Recovery Systems Co 2820 N Alameda St Compton Calif Varo Mfg Co 2201 Walnut St Garland Texas Vectrol Eng'g Inc P O Box 1089 Stamford Conn Victory Eng'g Corp 117 Springfield Rd Union NJ 11 Virginia Electronics Co River Rd & B&O RR Washington 16 DC Vitro Corp of America 261 Madison Ave New York 16 WacLine Inc 35 S St Clair St Dayton 2 Ohi Wagner Co H A 14707 Keswick St Van Nuys Cal Waldorf Instrument Co Div F C Hu & Sons Park Ave Huntington Station NY Walkirt Co 141 W Hazel St Inglewood 3 Cali Wallson Associates Ltd 963 Frelinghuysen Ave Newark 12 NJ	Div  20 34 -11-16-17-19 -26-30-32-34  18-25 30 11-30-34 -16-18-25-31  NY 11 0 11-30 if 12 yek 4-11-19-20 21-22-24-25
United Transformer Corp Pacific 4008 W Jefferson Blvd Los Angeles 16 Calif Uniwave Inc 2 Marine St Farmingdale NY US Controls Inc 161 Grand St New York 13 NY Vapor Recovery Systems Co 2820 N Alameda St Compton Calif Varo Mfg Co 2201 Walnut St Garland Texas Vectrol Eng'g Inc P O Box 1089 Stamford Conn Victory Eng'g Corp 117 Springfield Rd Union NJ 11 Virginia Electronics Co River Rd & B&O RR Washington 16 DC Vitro Corp of America 261 Madison Ave New York 16 1 Wagner Co H A 14707 Keswick St Van Nuys Cal Waddorf Instrument Co Div F C Hu & Sons Park Ave Huntington Station NY Walkirt Co 141 W Hazel St Inglewood 3 Cali Wallson Associates Ltd 963 Frelinghuysen Ave Newark 12 NJ Ward Leonard Electric Co Mt Vernon NY	Div  20 34 -11-16-17-19 -26-30-32-34  18-25 30 11-30-34 -16-18-25-31  NY 11 o 11-30 if 12 yek 4-11-19-20 21-22-24-25 f 11
United Transformer Corp Pacific 4008 W Jefferson Blvd Los Angeles 16 Calif Uniwave Inc 2 Marine St Farmingdale NY US Controls Inc 161 Grand St New York 13 NY Vapor Recovery Systems Co 2820 N Alameda St Compton Calif Varo Mfg Co 2201 Walnut St Garland Texas Vectrol Eng'g Inc P O Box 1089 Stamford Conn Victory Eng'g Corp 117 Springfield Rd Union NJ 11 Virginia Electronics Co River Rd & B&O RR Washington 16 DC Vitro Corp of America 261 Madison Ave New York 16 1 WacLine Inc 35 S St Clair St Dayton 2 Ohi Wagner Co H A 14707 Keswick St Van Nuys Cal Waldorf Instrument Co Div F C Hu & Sons Park Ave Huntington Station NY Walkirt Co 141 W Hazel St Inglewood 3 Cali Wallson Associates Ltd 963 Frelinghuysen Ave Newark 12 NJ Ward Leonard Electric Co Mt Vernon NY Warrick Co Charles F	Div  20 34 -11-16-17-19 -26-30-32-34  18-25 36 11-30-34 -16-18-25-31  NY 11 0 11-30 if 12 yek 4-11-19-20 21-22-24-25 f 11 11-34 23-30
United Transformer Corp Pacific 4008 W Jefferson Blvd Los Angeles 16 Calif Uniwave Inc 2 Marine St Farmingdale NY US Controls Inc 161 Grand St New York 13 NY Vapor Recovery Systems Co 2820 N Alameda St Compton Calif Varo Mfg Co 2201 Walnut St Garland Texas Vectrol Eng'g Inc P O Box 1089 Stamford Conn Victory Eng'g Corp 117 Springfield Rd Union NJ 11 Virginia Electronics Co River Rd & B&O RR Washington 16 DC Vitro Corp of America 261 Madison Ave New York 16 1 WacLine Inc 35 S St Clair St Dayton 2 Ohi Wagner Co H A 14707 Keswick St Van Nuys Cal Waldorf Instrument Co Div F C Hu & Sons Park Ave Huntington Station NY Walkirt Co 141 W Hazel St Inglewood 3 Cali Wallson Associates Ltd 963 Frelinghuysen Ave Newark 12 NJ Ward Leonard Electric Co Mt Vernon NY Warrick Co Charles F	Div  20 34 -11-16-17-19 -26-30-32-34  18-25 36 11-30-34 -16-18-25-31  NY 11 0 11-30 if 12 yek 4-11-19-20 21-22-24-25 f 11 11-34 23-30
United Transformer Corp Pacific 4008 W Jefferson Blvd Los Angeles 16 Calif Uniwave Inc 2 Marine St Farmingdale NY US Controls Ine 161 Grand St New York 13 NY Vapor Recovery Systems Co 2820 N Alameda St Compton Calif Varo Mfg Co 2201 Walnut St Garland Texas Vectrol Eng'g Inc P O Box 1089 Stamford Conn Victory Eng'g Corp 117 Springfield Rd Union NJ 11 Virginia Electronics Co River Rd & B&O RR Washington 16 DC Vitro Corp of America 261 Madison Ave New York 16 N WacLine Inc 35 S St Clair St Dayton 2 Ohi Wagner Co H A 14707 Keswick St Van Nuys Cal Waldorf Instrument Co Div F C Hu & Sons Park Ave Huntington Station NY Walkirt Co 141 W Hazel St Inglewood 8 Cali Walson Associates Ltd 963 Frelinghuysen Ave Newark 12 NJ Ward Leonard Electric Co Mt Vernon NY Warrick Co Charles F 1964 W 11 Mile Rd Berkley Mi Waugh Eng'g Co 7842 Burner Ave Van Nuys Cal Wells-Gardner & Co	Div  20 34 -11-16-17-19 -26-30-32-34  18-25 30 11-30-34 -16-18-25-31  NY 11 0 11-30 if 12 yek 4-11-19-20 21-22-24-25 f 11 11-34 23-30 ch 5-25 if 16
United Transformer Corp Pacific 4008 W Jefferson Blvd Los Angeles 16 Calif Uniwave Inc 2 Marine St Farmingdale NY US Controls Ine 161 Grand St New York 13 NY Vapor Recovery Systems Co 2820 N Alameda St Compton Calif Varo Mfg Co 2201 Walnut St Garland Texas Vectrol Eng'g Inc P O Box 1089 Stamford Conn Victory Eng'g Corp 117 Springfield Rd Union NJ Virginia Electronics Co River Rd & B&O RR Washington 16 DC Vitro Corp of America 261 Madison Ave New York 16 N WacLine Inc 35 S St Clair St Dayton 2 Ohi WacLine Inc 35 S St Clair St Dayton 2 Ohi WacLine Inc 35 S St Clair St Dayton 2 Ohi WacLine Inc 36 S St Clair St Dayton 2 Ohi WacLine Inc 37 S S St Clair St Dayton 2 Ohi WacLine Inc 38 S St Clair St Dayton 2 Ohi Walkirt Co 141 W Hazel St Inglewood 3 Cali Wallson Associates Ltd 963 Frelinghuysen Ave Newark 12 NJ Ward Leonard Electric Co Mt Vernon NY Warrick Co Charles F 1964 W 11 Mile Rd Berkley Mic Waugh Eng'g Co 7842 Burnet Ave Van Nuys Cal Wells-Gardner & Co 2701 N Kildare Ave Chicago 39	Div  20 34 -11-16-17-19 -26-30-32-34  18-25 30 11-30-34 -16-18-25-31  NY 11 0 11-30 if 12 yek 4-11-19-20 21-22-24-25 f 11 11-34 23-30 ch 5-25 if 16
United Transformer Corp Pacific 4008 W Jefferson Blvd Los Angeles 16 Calif Uniwave Inc 2 Marine St Farmingdale NY US Controls Ine 161 Grand St New York 13 NY Vapor Recovery Systems Co 2820 N Alameda St Compton Calif Varo Mfg Co 2201 Walnut St Garland Texas Vectrol Eng'g Inc P O Box 1089 Stamford Conn Victory Eng'g Corp 117 Springfield Rd Union NJ 11 Virginia Electronics Co River Rd & B&O RR Washington 16 DC Vitro Corp of America 261 Madison Ave New York 16 1 WacLine Inc 35 S St Clair St Dayton 2 Ohi Wagner Co H A 14707 Keswick St Van Nuys Cal Waldorf Instrument Co Div F C Hu & Sons Park Ave Huntington Station NY Walkirt Co 141 W Hazel St Inglewood 3 Cali Wallson Associates Ltd 963 Frelinghuysen Ave Newark 12 NJ Ward Leonard Electric Co Mt Vernon NY Warrick Co Charles F 1964 W 11 Mile Rd Berkley Mid Waugh Eng'g Co 7842 Burnet Ave Van Nuys Cal Wells-Gardner & Co 2701 N Kildare Ave Chicago 39 West Coast Research Corp 22711½ Westwood Blvd	Div  20 34 -11-16-17-19 -26-30-32-34  18-25 30 11-30-34 -16-18-25-31  NY 11 0 11-30 if 12 yek 4-11-19-20 21-22-24-25 f 11 11-34 23-30 ch 5-25 if 16
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United Transformer Corp Pacific 4008 W Jefferson Blvd Los Angeles 16 Calif Uniwave Inc 2 Marine St Farmingdale NY US Controls Ine 161 Grand St New York 13 NY Vapor Recovery Systems Co 2820 N Alameda St Compton Calif Varo Mfg Co 2201 Walnut St Garland Texas Vectrol Eng'g Inc P O Box 1089 Stamford Conn Victory Eng'g Corp 117 Springfield Rd Union NJ 11 Virginia Electronics Co River Rd & B&O RR Washington 16 DC Vitro Corp of America 261 Madison Ave New York 16 N WacLine Inc 35 S St Clair St Dayton 2 Ohi Wagner Co H A 14707 Keswick St Van Nuys Cal Waldorf Instrument Co Div F C Hu & Sons Park Ave Huntington Station NY Walkirt Co 141 W Hazel St Inglewood 8 Cali Walson Associates Ltd 963 Frelinghuysen Ave Newark 12 NJ Ward Leonard Electric Co Mt Vernon NY Warrick Co Charles F 1964 W 11 Mile Rd Berkley Mi Waugh Eng'g Co 7842 Burnet Ave Van Nuys Cal Wells-Gardner & Co 2701 N Kildare Ave Chicago 39 West Coast Research Corp 2371½ Westwood Blvd Los Angeles 64 Calif Westinghouse Electric Corp	Div  20 34 -11-16-17-19 -126-30-32-34  18-25 30 11-30-34  -16-18-25-31  NY 11  o 11-30 if 12 yek 4-11-19-20 21-22-24-25 f 11 11-34 23-30 ch 5-25 if 16 III 9 4-7-11-20-30
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United Transformer Corp Pacific 4008 W Jefferson Blvd Los Angeles 16 Calif Uniwave Inc 2 Marine St Farmingdale NY US Controls Inc 161 Grand St New York 13 NY Vapor Recovery Systems Co 2820 N Alameda St Compton Calif Varo Mfg Co 2201 Walnut St Garland Texas Vectrol Eng'g Inc P O Box 1089 Stamford Conn Victory Eng'g Corp 117 Springfield Rd Union NJ 11Virginia Electronics Co River Rd & B&O RR Washington 16 DC Vitro Corp of America 261 Madison Ave New York 16 New Corp Marine Inc 35 S St Clair St Dayton 2 Ohi Wagner Co H A 14707 Keswick St Van Nuys Cal Waldorf Instrument Co Div F C Hu & Sons Park Ave Huntington Station NY Walkirt Co 141 W Hazel St Inglewood 3 Cali Wallson Associates Ltd 963 Frelinghuysen Ave Newark 12 NJ Ward Leonard Electric Co Mt Vernon NY Warrick Co Charles F 1964 W 11 Mile Rd Berkley Mic Waugh Eng'g Co 7842 Burnet Ave Van Nuys Cal Wells-Gardner & Co 2701 N Kildare Ave Chicago 39 West Coast Research Corp 22711/2 Westwood Blvd Los Angeles 64 Calif Westinghouse Electric Corp P O Box 868 Pittsburgh 30 Pa West Instrument Corp 4363 W Montrose Ave Chicago 41 Ill Weston Electrical Instrument Corp	Div  20 34 -11-16-17-19 -126-30-32-34  18-25 30 11-30-34  -16-18-25-31  NY 11  o 11-30 if 12 yek 4-11-19-20 21-22-24-25 f 11 11-34 23-30 ch 5-25 if 16 III 9 4-7-11-20-30 2-3-6-17
United Transformer Corp Pacific 4008 W Jefferson Blvd Los Angeles 16 Calif Uniwave Inc 2 Marine St Farmingdale NY US Controls Inc 161 Grand St New York 13 NY 240por Recovery Systems Co 2820 N Alameda St Compton Calif Varo Mfg Co 2201 Walnut St Garland Texas Vectrol Eng'g Inc P O Box 1089 Stamford Conn Victory Eng'g Corp 117 Springfield Rd Union NJ 11 Virginia Electronics Co River Rd & B&O RR Washington 16 DC Vitro Corp of America 261 Madison Ave New York 16 N WacLine Inc 35 S St Clair St Dayton 2 Ohi Waldorf Instrument Co Div F C Hu & Sons Park Ave Huntington Station NY Walkirt Co 141 W Hazel St Inglewood 3 Cali Wallson Associates Ltd 963 Frelinghuysen Ave Newark 12 NJ Ward Leonard Electric Co Mt Vernon NY Warrick Co Charles F 1964 W 11 Mile Rd Berkley Mid Mary Eng'g Co 7842 Burnet Ave Van Nuys Cal Wells-Gardner & Co 2701 N Kildare Ave Chicago 39 West Coast Research Corp 2371½ Westwood Blvd Los Angeles 64 Calif Westinghouse Electric Corp P O Box 868 Pittsburgh 30 Pa West Instrument Corp 4363 W Montrose Ave Chicago 41 Ill Weston Electrical Instrument Corp Sub Daystrom Inc 614 Frelinghuysen Ave	Div  20 34 -11-16-17-19 -126-30-32-34  18-25 30 11-30-34  -16-18-25-31  NY 11  o 11-30 if 12 yek 4-11-19-20 21-22-24-25 f 11 11-34 23-30 ch 5-25 if 16 III 9 4-7-11-20-30 2-3-6-17

Wilcolator Co		
	Allen-Bradley Co	Black & Webster Inc
1001 Newark Ave Elizabeth NJ 1	136 W Greenfield Ave 38-50-52-56-57-	445 Watertown St Newton 58 Mass 71
Winder Aircraft Corp of Florida PO Box 2397 Drane Field	Milwaukee 4 Wisc 59-71-73-75 Allis-Chalmers Mfg Co	Bogue Electric Mfg Co Iowa Ave Paterson 3 NJ 58-67-68
Lakeland Fla 20-26-28	Milwaukee 1 Wisc 36	Bosch Inc M Ten
Winterburn Mfg Co	Allis Co Louis	80 Wheeler Ave Pleasantville NY 41-64
11 Whittemore St Putnam Conn 26-28-30 Worner Electronic Devices	427 E Stewart St Milwaukee 1 Wisc 58 Aloe Scientific	Boulin Instrument Corp 10 1 St Pelham NY 63
Rankin Ill 1-3-6-7-8-9-14-16-23-24-25-34	5655 Kingsbury Blvd St Louis 12 Mo 58	Bowmar Instrument Corp
Zenith Electric Co 152 W Walton St Chicago 10 Ill 30	American Electronics Inc Instrument Div 9503 W Jefferson Blvd Culver City Calif 41	2415 Pennsylvania St Ft Wayne Ind 40-41-46
of the state of th	American Gyro Corp	Brailsford & Co
22 A CONTROL FOURWENT	3030 Nebraska Ave Santa Monica Calif 64	670 Milton Rd Rye NY 73-75
22A-CONTROL EQUIPMENT,	American Instrument Co 8030 Georgia Ave Silver Spring Md 50	Breeze Corps 700 Liberty Ave Union NJ 65
INDUSTRIAL	American Machine & Foundry Co	Briggs Associates
Controls, position 36	Defense Products Group 1101 N Royal St Alexandria Va 49-58	10 DeKalb St Norristown Pa 41-46-52-60-61-63
Controls, power level 37	1101 N Royal St Alexandria Va 49-58 American Metrix Corp	Bristol Co 36-37-38-41-43-44-45-
Controls, pressure 38	40 Haddon Ave Camden 3 NJ 42-54	PO Box 1790 EITT 46-47-49-50-52-56-57-
Controls, printing 39	American Rectifier Corp 95 Lafayette St New York 13 NY 37-46-58	Waterbury 20 Conn 63-70-71-72-73-75 British Electronic Sales
Controls, register 40	American Scientific Co	Box 132 Oakland Gardens 64 NY 69
Controls, servo 41	1295 Grand Concourse New York 52 NY 52 Amglo Corp	Brooke Eng'g Co 4517 Wayne Ave Philadelphia 44 Pa 43-44
Controls, signal 42	4333 Ravenswood Ave	4517 Wayne Ave Philadelphia 44 Pa 43-44 Buffalo Instrument Corp
Controls, smoke & combustion . 43	Chicago 13 Ill 52-71-75	1780 Elmwood Ave Buffalo 7 NY 36
Controls, smoke density 44	Analogue Controls Inc 39 Roselle St Mineola NY 36-41	Burling Instrument Co 16 River Rd Chatham NJ 50
Controls, specific gravity 45	39 Roselle St Mineola NY 36-41 Antlab Inc	16 River Rd Chatham NJ 50 Burroughs Corp
Controls, speed	4950 N High St Columbus 14 Ohio 36	6071 2 Ave Detroit 32 Mich 64-70-73
Controls, strain	Anton Electronic Labs 1226 Flushing Ave Brooklyn 6 NY 58	Burroughs Corp Electronic Tube Div Box 1226 Plainfield NJ 63
Controls, surface finish 48 Controls, telemetering 49	Arma Div American Bosch Arma Corp	Burroughs Corp
Controls, temperature 50	Garden City NY 41-49-64 Askania Regulator Co	Electronic Instruments Div
Controls, tension 51	240 E Ontario St 36-37-38-39-40-41	1209 Vine St Philadelphia 7 Pa 63 Caltron Products Co
Controls, timing 52	Chicago 11 Ill 43-50-51-53-58-67	3518 W Pico Blvd Los Angeles 19 Calif 69
Controls, torque 53	Assembly Products Inc Chesterland Ohio 46-47-49-50	Camera Equipment Co 315 W 43 St New York 36 NY 64
Controls, traffic 54	Atkomatic Valve Co	Campbell X-Ray Corp
Controls, ultrasonic 55	545 W Abbott St Indianapolis 25 Ind 69	110 Commington St Boston 15 Mass
Controls, vacuum 56	Atlas Electric Products Co PO Box 1591 Erie Pa 50-52	Canadian Aviation Electronics Ltd 6214 Cote de Liesse Rd
Controls, ventilating 57	Automatic Control Co	St Laurent Quebec Canada 33-41-47-61
Controls, voltage regulator 58	995 University Ave St Paul 4 Minn 38 Automatic Switch Co	Carter Parts Co 3401 W Madison St Skokie III 59
Controls, volume 59	Hanover Rd Florham Park NJ 38-69	Cash Valve Mfg Corp A W
Controls, weight	Automation Management Inc	666 E Wabash Ave Decatur III 38-56
Controls, welding	Adams St Westboro Mass 36-11-49-52 Autonetics Div North American Aviation	C B C Electronics Co 2601 N Howard St Philadelphia 33 Pa 68
Counting devices	9150 E Imperial Hwy Downey Calif 64	Cedar Eng'g Inc
Gyros	Autron Eng'g Inc 1254 W 6 St	5806 W 36 St Minneapolis 16 Minn 64
Ignition systems, electronic 65	Los Angeles 17 Calif 36-38-40-41-50-63	Central Electronic Mfrs Inc Sub Nuclear Corp of America
Injection equip., fuel, electronic 66	Autotron Inc	2 Richwood Pl Denville NJ 33-56
Regulators, automatic current 67	3629 N Vermilion St Danville III 74 Avion Div ACF Industries Inc	Century Coil Corp 1534 N Clybourn Ave Chicago 10 III 62-77
Regulators, automatic voltage 68	11 Park Pl Paramus NJ 53-58	Century Engineers
Solenoid Valves 69	Avionics Ltd	2741 N Naomi St Burbank Calif
	PO Por 200 Niegove on the Late	
Timers, counting 70	PO Box 200 Niagara-on-the-Lake Ontario Canada 52-74-75	CG Electronics Corp 305 Dallas St NE Albuquerque New Mex 77
Timers, cyclic 71	Ontario Canada 52-74-75 Bailey Meter Co	305 Dallas St NE Albuquerque New Mex 77
Timers, cyclic	Ontario Canada 52-74-75 Bailey Meter Co 1050 Ivanhoe Rd	305 Dallas St NE Albuquerque New Mex 77 Chicago Aerial Industries Inc. 1980 N Hawthorne Ave Melrose Park III 73 Cincinnati Time Recorder Co
Timers, cyclic	Ontario Canada 52-74-75 Bailey Meter Co 1050 Ivanhoe Rd Cleveland 10 Ohio 36-38-44-46-49-50-56 Baird-Atomic Inc	305 Dallas St NE Albuquerque New Mex 77 Chicago Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park Ill 73 Cincinnati Time Recorder Co 1733 Central Ave Cincinnati 14 Ohio 42-63
Timers, cyclic	Ontario Canada 52-74-75 Bailey Meter Co 1050 Ivanhoe Rd Cleveland 10 Ohio 36-38-44-46-49-50-56 Baird-Atomic Inc 33 University Rd	305 Dallas St NE Albuquerque New Mex 77 Chicago Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III 73 Cincinnati Time Recorder Co 1733 Central Ave Cincinnati 14 Ohio 42-63 Cinema-Television Ltd Westley Bridge Rd Lower Sydenham 58
Timers, cyclic       71         Timers, impulse       72         Timers, interval       73         Timers, photoelectric       74         Timers, sequence       75	Ontario Canada 52-74-75 Bailey Meter Co 1050 Ivanhoe Rd Cleveland 10 Ohio 36-38-44-46-49-50-56 Baird-Atomic Inc 33 University Rd Cambridge 38 Mass Balteau Electric Corp	305 Dallas St NE Albuquerque New Mex 77 Chicago Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III 73 Cincinnati Time Recorder Co 1733 Central Ave Cincinnati 14 Ohio 42-63 Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham 58 London S E 26 England 63-63-70-72-73-74-75
Timers, cyclic	Ontario Canada 52-74-75 Bailev Meter Co 1050 Ivanhoe Rd Cleveland 10 Ohio 36-38-44-46-49-50-56 Baird-Atomic Inc 33 University Rd Cambridge 38 Mass Balteau Electric Corp New and Meadow Sts Stamford Conn 77	305 Dallas St NE Albuquerque New Mex 77 Chicago Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III 73 Cincinnati Time Recorder Co 1733 Central Ave Cincinnati 14 Ohio 42-63 Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London S E 26 England 63-68-70-72-73-74-75 Clark Controller Co
Timers, cyclic	Ontario Canada Bailey Meter Co 1050 Ivanhoe Rd Cleveland 10 Ohio Baird-Atomic Inc 33 University Rd Cambridge 38 Mass Balteau Electric Corp New and Meadow Sts Stamford Conn 77 Barber-Colman Co	305 Dallas St NE Albuquerque New Mex 77 Chicago Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III 73 Cincinnati Time Recorder Co 1733 Central Ave Cincinnati 14 Ohio 42-63 Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham 58 London S E 26 England 63-68-70-72-73-74-75 Clark Controller Co 1146 E 152 St 36-38-39-46-79
Timers, cyclic       71         Timers, impulse       72         Timers, interval       73         Timers, photoelectric       74         Timers, sequence       75         Timers, thermal       76         X-Ray inspection machines       77	Ontario Canada 52-74-75 Bailey Meter Co 1050 Ivanhoe Rd Cleveland 10 Ohio 36-38-44-46-49-50-56 Baird-Atomic Inc 33 University Rd Cambridge 38 Mass Balteau Electric Corp New and Meadow Sts Stamford Conn 77 Barber-Colman Co Rock St Rockford Ill 36-50-57-71 Barker Sales Co	305 Dallas St NE Albuquerque New Mex 77 Chicago Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III 73 Cincinnati Time Recorder Co 1733 Central Ave Cincinnati 14 Ohio 42-63 Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London S E 26 England 63-68-70-72-73-74-75 Clark Controller Co 1146 E 152 St 36-38-39-46- Cleveland 10 Ohio 50-52-58 Clargata Mfg Co
Timers, cyclic       71         Timers, impulse       72         Timers, interval       73         Timers, photoelectric       74         Timers, sequence       75         Timers, thermal       76         X-Ray inspection machines       77    Abrams Instrument Corp 606 E Shiswassee St	Ontario Canada Bailev Meter Co 1050 Ivanhoe Rd Cleveland 10 Ohio 36-38-44-46-49-50-56 Baird-Atomic Inc 33 University Rd Cambridge 38 Mass Balteau Electric Corp New 2nd Meadow Sts Stamford Conn 77 Barber-Colman Co Rock St Rockford Ill 36-50-57-71 Barker Sales Co 996 Edgewater Ave Ridgefield NJ 63	305 Dallas St NE Albuquerque New Mex 77 Chicago Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III 73 Cincinnati Time Recorder Co 1733 Central Ave Cincinnati 14 Ohio 42-63 Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London S E 26 England 63-68-70-72-73-74-75 Clark Controller Co 1146 E 152 St 36-38-39-46- Cleveland 10 Ohio 50-52-58 Clarostat Mfg Co Washington St Dover NH 59
Timers, cyclic         71           Timers, impulse         72           Timers, interval         73           Timers, photoelectric         74           Timers, sequence         75           Timers, thermal         76           X-Ray inspection machines         77           Abrams Instrument Corp         606 E. Shiawassee St         49-52-63-70-71-72-73-75           Lansing 1 Mich         71-72-73-75           Acoustica Associates Shore Rd	Ontario Canada 52-74-75 Bailey Meter Co 1050 Ivanhoe Rd Cleveland 10 Ohio 36-38-44-46-49-50-56 Baird-Atomic Inc 33 University Rd Cambridge 38 Mass Balteau Electric Corp New and Meadow Sts Stamford Conn 77 Barber-Colman Co Rock St Rockford Ill 36-50-57-71 Barker Sales Co	305 Dallas St NE Albuquerque New Mex       77         Chicago Aerial Industries Inc       1980 N Hawthorne Ave Melrose Park III       73         Cincinnati Time Recorder Co       1733 Central Ave Cincinnati 14 Ohio       42-63         Cinema-Television Ltd       Worsley Bridge Rd Lower Sydenham       58         London S E 26 England 63-68-70-72-73-74-75       Clark Controller Co       36-38-39-46-         1146 E 152 St       36-38-39-46-         Cleveland 10 Ohio       50-52-58         Clarostat Mfg Co       Washington St Dover NH       59         Clary Corp       408 Junipero St San Gabriel Calif       70-73
Timers, cyclic       71         Timers, impulse       72         Timers, interval       73         Timers, photoelectric       74         Timers, sequence       75         Timers, thermal       76         X-Ray inspection machines       77         Abrams Instrument Corp       606 E Shiawassee St       49-52-63-70-1-73-75         Lansing 1 Mich       71-72-73-75         Acoustica Associates Shore Rd       Glenwood Landing LI NY       55	Ontario Canada Bailey Meter Co 1050 Ivanhoe Rd Cleveland 10 Ohio 36-38-44-46-49-50-56 Baird-Atomic Inc 33 University Rd Cambridge 38 Mass Balteau Electric Corp New and Meadow Sts Stamford Conn 77 Barber-Colman Co Rock St Rockford Ill 36-50-57-71 Barker Sales Co 996 Edgewater Ave Ridgefield NJ 63 Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass 63 Barton Electronies Inc	305 Dallas St NE Albuquerque New Mex 77 Chicago Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III 73 Cincinnati Time Recorder Co 1733 Central Ave Cincinnati 14 Ohio 42-63 Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham 58 London S E 26 England 63-68-70-72-73-74-75 Clark Controller Co 1146 E 152 St Cleveland 10 Ohio 36-38-39-46- Cleveland 10 Ohio 50-52-58 Clarostat Mfg Co Washington St Dover NH 59 Clary Corp 408 Junipero St San Gabriel Calif 70-73
Timers, cyclic         71           Timers, impulse         72           Timers, interval         73           Timers, photoelectric         74           Timers, sequence         75           Timers, thermal         76           X-Ray inspection machines         77           Abrams Instrument Corp         606 E Shiawassee St         49-52-63-70-17-72-73-75           Acoustica Associates Shore Rd         Glenwood Landing LI NY         55           Adler Electronics Inc         1 LeFevre Lane New Rochelle NY         67-68	Ontario Canada Bailey Meter Co 1050 Ivanhoe Rd Cleveland 10 Ohio 36-38-44-46-49-50-56 Baird-Atomic Inc 33 University Rd Cambridge 38 Mass 52-63-70-72-74-75 Balteau Electric Corp New and Meadow Sts Stamford Conn 77 Barber-Colman Co Rock St Rockford Ill 36-50-57-71 Barker Sales Co 996 Edgewater Ave Ridgefield NJ 63 Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass 63 Barton Electronies Inc 1000 Farmington Ave W	305 Dallas St NE Albuquerque New Mex 77 Chicago Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III 73 Cincinnati Time Recorder Co 1733 Central Ave Cincinnati 14 Ohio 42-63 Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London S E 26 England 63-68-70-72-73-74-75 Clark Controller Co 1146 E 152 St 36-38-39-46- Cleveland 10 Ohio 50-52-58 Clarostat Mfg Co Washington St Dover NH 59 Clary Corp 408 Junipero St San Gabriel Calif 70-73 Comac Instrument Co 66-11 99 St Forest Hills 74 NY 49 Communication Accessories Co
Timers, cyclic         71           Timers, impulse         72           Timers, interval         73           Timers, photoelectric         74           Timers, sequence         75           Timers, thermal         76           X-Ray inspection machines         77           Abrams Instrument Corp         606 E Shiawassee St         49-52-63-70-10-10-10-10-10-10-10-10-10-10-10-10-10	Ontario Canada Bailey Meter Co 1050 Ivanhoe Rd Cleveland 10 Ohio 36-38-44-46-49-50-56 Baird-Atomic Inc 33 University Rd Cambridge 38 Mass Balteau Electric Corp New and Meadow Sts Stamford Conn 77 Barber-Colman Co Rock St Rockford Ill 36-50-57-71 Barker Sales Co 996 Edgewater Ave Ridgefield NJ 63 Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass 63 Barton Electronies Inc 1000 Farmington Ave W Hartford 7 Conn 36-52-73 Basic Controls Co	305 Dallas St NE Albuquerque New Mex 77 Chicago Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III 73 Cincinnati Time Recorder Co 1733 Central Ave Cincinnati 14 Ohio 42-63 Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham 58 London S E 26 England 63-68-70-72-73-74-75 Clark Controller Co 1146 E 152 St 36-38-39-46- Cleveland 10 Ohio 50-52-58 Clarostat Mfg Co Washington St Dover NH 59 Clary Corp 408 Junipero St San Gabriel Calif 70-73 Comac Instrument Co 66-11 99 St Forest Hills 74 NY Communication Accessories Co 110 St & 71 Hwy
Timers, cyclic         71           Timers, impulse         72           Timers, interval         73           Timers, photoelectric         74           Timers, sequence         75           Timers, thermal         76           X-Ray inspection machines         77           Abrams Instrument Corp         606 E Shiawassee St         49-52-63-70-17-72-73-75           Acoustica Associates Shore Rd         Glenwood Landing LI NY         55           Adler Electronics Inc         1 LeFevre Lane New Rochelle NY         67-68	Ontario Canada Bailey Meter Co 1050 Ivanhoe Rd Cleveland 10 Ohio 36-38-44-46-49-50-56 Baird-Atomic Inc 33 University Rd Cambridge 38 Mass Balteau Electric Corp New and Meadow Sts Stamford Conn 77 Barber-Colman Co Rock St Rockford Ill 36-50-57-71 Barker Sales Co 996 Edgewater Ave Ridgefield NJ 63 Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass 63 Barton Electronics Inc 1000 Farmington Ave W Hartford 7 Conn 36-52-73 Basic Controls Co 1714 Westwood Blvd 42-43-44-50	305 Dallas St NE Albuquerque New Mex 77 Chicago Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III 73 Cincinnati Time Recorder Co 1733 Central Ave Cincinnati 14 Ohio 42-63 Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham 58 London S E 26 England 63-68-70-72-73-74-75 Clark Controller Co 1146 E 152 St 36-38-39-46- Cleveland 10 Ohio 50-52-58 Clarostat Mfg Co Washington St Dover NH 59 Clary Corp 408 Junipero St San Gabriel Calif 70-73 Comac Instrument Co 66-11 99 St Forest Hills 74 NY Communication Accessories Co 110 St & 71 Hwy Hickman Mills Mo Conn Telephone & Electric Corp
Timers, cyclic         71           Timers, impulse         72           Timers, interval         73           Timers, photoelectric         74           Timers, sequence         75           Timers, thermal         76           X-Ray inspection machines         77           Abrams Instrument Corp         606 E Shiawassee St         49-52-63-70-10-10-10-10-10-10-10-10-10-10-10-10-10	Ontario Canada Bailey Meter Co 1050 Ivanhoe Rd Cleveland 10 Ohio 36-38-44-46-49-50-56 Baird-Atomic Inc 33 University Rd Cambridge 38 Mass Balteau Electric Corp New and Meadow Sts Stamford Conn 77 Barber-Colman Co Rock St Rockford Ill 36-50-57-71 Barker Sales Co 996 Edgewater Ave Ridgefield NJ 63 Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass 63 Barton Electronies Inc 1000 Farmington Ave W Hartford 7 Conn 36-52-73 Basic Controls Co 1714 Westwood Blvd 42-43-44-50 Los Angeles 24 Calif 70-71-72-73-74-75 Bayside Timers	305 Dallas St NE Albuquerque New Mex 77 Chicago Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III 73 Cincinnati Time Recorder Co 1733 Central Ave Cincinnati 14 Ohio 42-63 Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham 58 London S E 26 England 63-68-70-72-73-74-75 Clark Controller Co 1146 E 152 St 36-38-39-46- Cleveland 10 Ohio 50-52-58 Clarostat Mfg Co Washington St Dover NH 59 Clary Corp 408 Junipero St San Gabriel Calif 70-73 Comac Instrument Co 66-11 99 St Forest Hills 74 NY 49 Communication Accessories Co 110 St & 71 Hwy Hickman Mills Mo Conn Telephone & Electric Corp 70 Brittania St Meriden Conn 41
Timers, cyclic         71           Timers, impulse         72           Timers, interval         73           Timers, photoelectric         74           Timers, sequence         75           Timers, thermal         76           X-Ray inspection machines         77           Abrams Instrument Corp         606 E Shiawassee St         49-52-63-70-10-10-10-10-10-10-10-10-10-10-10-10-10	Ontario Canada Bailey Meter Co 1050 Ivanhoe Rd Cleveland 10 Ohio 36-38-44-46-49-50-56 Baird-Atomic Inc 33 University Rd Cambridge 38 Mass Balteau Flectric Corp New and Meadow Sts Stamford Conn 77 Barber-Colman Co Rock St Rockford Ill 36-50-57-71 Barker Sales Co 996 Edgewater Ave Ridgefield NJ 63 Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass 63 Barton Electronies Inc 1000 Farmington Ave W Hartford 7 Conn 36-52-73 Basic Controls Co 1714 Westwood Blvd 42-43-44-50 Los Angeles 24 Calif 70-71-72-73-74-75 Bayside Timers 45-25 162 St Flushing 58 NY 71-72-73-75	305 Dallas St NE Albuquerque New Mex 77 Chicago Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III 73 Cincinnati Time Recorder Co 1733 Central Ave Cincinnati 14 Ohio 42-63 Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London S E 26 England 63-68-70-72-73-74-75 Clark Controller Co 1146 E 152 St 36-38-39-46- Cleveland 10 Ohio 50-52-58 Cleveland 10 Ohio 50-52-58 Clarostat Mfg Co Washington St Dover NH 59 Clary Corp 408 Junipero St San Gabriel Calif 70-73 Comac Instrument Co 66-11 99 St Forest Hills 74 NY 49 Communication Accessories Co 110 St & 71 Hwy Hickman Mills Mo Conn Telephone & Electric Corp 70 Brittania St Meriden Conn Connollow Corp
Timers, cyclic         71           Timers, impulse         72           Timers, interval         73           Timers, photoelectric         74           Timers, sequence         75           Timers, thermal         76           X-Ray inspection machines         77           Abrams Instrument Corp         606 E Shiawassee St         49-52-63-70-10-10-10-10-10-10-10-10-10-10-10-10-10	Ontario Canada Bailey Meter Co 1050 Ivanhoe Rd Cleveland 10 Ohio 36-38-44-46-49-50-56 Baird-Atomic Inc 33 University Rd Cambridge 38 Mass Balteau Electric Corp New and Meadow Sts Stamford Conn 77 Barber-Colman Co Rock St Rockford Ill 36-50-57-71 Barker Sales Co 996 Edgewater Ave Ridgefield NJ 63 Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass 63 Barton Electronics Inc 1000 Farmington Ave W Hartford 7 Conn 36-52-73 Basic Controls Co 1714 Westwood Blvd 42-43-44-50 Los Angeles 24 Calif 70-71-72-73-74-75 Bayside Timers 45-25 162 St Flushing 58 NY 71-72-73-75 Beckman/Berkeley Div	305 Dallas St NE Albuquerque New Mex 77 Chicago Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III 73 Cincinnati Time Recorder Co 1733 Central Ave Cincinnati 14 Ohio 42-63 Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham 58 London S E 26 England 63-68-70-72-73-74-75 Clark Controller Co 1146 E 152 St 36-38-39-46- Cleveland 10 Ohio 50-52-58 Clarostat Mfg Co Washington St Dover NH 59 Clary Corp 408 Junipero St San Gabriel Calif 70-73 Comac Instrument Co 66-11 99 St Forest Hills 74 NY 49 Communication Accessories Co 110 St & 71 Hwy Hickman Mills Mo 41-58-68 Conn Telephone & Electric Corp 70 Brittania St Meriden Conn Conoflow Corp 2100 Arch St Philadelphia 3 Pa 36-38-56 Corsolidated Avionics Corp
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Timers, cyclic	Ontario Canada Bailev Meter Co 1050 Ivanhoe Rd Cleveland 10 Ohio 36-38-44-46-49-50-56 Baird-Atomic Inc 33 University Rd Cambridge 38 Mass 52-63-70-72-74-75 Balteau Electric Corp New and Meadow Sts Stamford Conn 77 Barber-Colman Co Rock St Rockford Ill 36-50-57-71 Barker Sales Co 996 Edgewater Ave Ridgefield NJ 63 Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass 63 Barton Electronies Inc 1000 Farmington Ave W Hartford 7 Conn 36-52-73 Basic Controls Co 1714 Westwood Blvd 42-43-44-50 Los Angeles 24 Calif 70-71-72-73-74-75 Bayside Timers 45-25 162 St Flushing 58 NY 71-72-73-75 Beckman /Berkeley Div Beckman Instruments Inc 2200 Wright Ave Richmond 3 Calif 73-74 Berkman Instruments Inc Process Instruments Div 2500 Fullerton Rd Fullerton Calif	305 Dallas St NE Albuquerque New Mex         77           Chicago Aerial Industries Inc         1980 N Hawthorne Ave Melrose Park III         73           Cincinnati Time Recorder Co         1733 Central Ave Cincinnati 14 Ohio         42-63           Cinema-Television Ltd         Worsley Bridge Rd Lower Sydenham         58           London S E 26 England 63-68-70-72-73-74-75         Clark Controller Co         36-38-39-46-           Cleveland 10 Ohio         50-52-58           Clarostat Mfg Co         36-38-39-46-           Washington St Dover NH         59           Clary Corp         408 Junipero St San Gabriel Calif         70-73           Comac Instrument Co         66-11 99 St Forest Hills 74 NY         49           Communication Accessories Co         110 St & 71 Hwy         41-58-68           Conn Telephone & Electric Corp         70 Brittania St Meriden Conn         41           Consolidated Avionics Corp         66 Brooklyn Ave         43-38-56           Westbury NY         36-38-41-49-52-58           Consolidated Electrodynamics         30 N Sierra Madre Villa         56           Pasadena Calif         Consolidated Electrodynamics Corp         56           Consolidated Electrodynamics Corp         56
Timers, cyclic	Ontario Canada Bailey Meter Co 1050 Ivanhoe Rd Cleveland 10 Ohio 36-38-44-46-49-50-56 Baird-Atomic Inc 33 University Rd Cambridge 38 Mass 52-63-70-72-74-75 Balteau Electric Corp New and Meadow Sts Stamford Conn 77 Barber-Colman Co Rock St Rockford Ill 36-50-57-71 Barker Sales Co 996 Edgewater Ave Ridgefield NJ 63 Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass 63 Barton Electronics Inc 1000 Farmington Ave W Hartford 7 Conn 36-52-73 Basic Controls Co 1714 Westwood Blvd 42-43-44-50 Los Angeles 24 Calif 70-71-72-73-74-75 Bayside Timers 45-25 162 St Flushing 58 NY 71-72-73-75 Beckman/Berkeley Div Beckman Instruments Inc 200 Wright Ave Richmond 3 Calif 73-74 Beckman Instruments Inc Process Instruments Div 2500 Fullerton Rd Fullerton Calif 8elfab Corp 11 Ramah Circle Agawam Mass 38-56 Bell Aircraft Corp PO Rox 1 Buffalo 5 NY 41-49-64	305 Dallas St NE Albuquerque New Mex 77 Chicago Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III 73 Cincinnati Time Recorder Co 1733 Central Ave Cincinnati 14 Ohio 42-63 Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham 58 London S E 26 England 63-68-70-72-73-74-75 Clark Controller Co 1146 E 152 St 36-38-39-46- Cleveland 10 Ohio 50-52-58 Clarostat Mfg Co Washington St Dover NH 59 Clary Corp 408 Junipero St San Gabriel Calif 70-73 Comac Instrument Co 66-11 99 St Forest Hills 74 NY 49 Communication Accessories Co 110 St & 71 Hwy Hickman Mills Mo 41-58-68 Conn Telephone & Electric Corp 70 Brittania St Meriden Conn 41 Conoflow Corp 2100 Arch St Philadelphia 3 Pa 36-38-56 Corsolidated Avionics Corp 66 Brooklyn Ave Westbury NY 36-38-41-49-52-58 Consolidated Electrodynamics Corp 300 N Sierra Madre Villa Pasadena Calif Consolidated Electrodynamics Corp Rochester Div 1775 Mt Read Blvd Rochester 4 NY 56
Timers, cyclic	Ontario Canada Bailey Meter Co 1050 Ivanhoe Rd Cleveland 10 Ohio 36-38-44-46-49-50-56 Baird-Atomic Inc 33 University Rd Cambridge 38 Mass Balteau Electric Corp New and Meadow Sts Stamford Conn 77 Barber-Colman Co Rock St Rockford Ill 36-50-57-71 Barker Sales Co 996 Edgewater Ave Ridgefield NJ 63 Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass 63 Barton Electronics Inc 1000 Farmington Ave W Hartford 7 Conn 36-52-73 Basic Controls Co 1714 Westwood Blvd 42-43-44-50 Los Angeles 24 Calif 70-71-72-73-74-75 Bayside Timers 45-25 162 St Flushing 58 NY 71-72-73-75 Beckman /Berkeley Div Beckman Instruments Inc 63-70- 2200 Wright Ave Richmond 3 Calif 73-74 Beckman Instruments Inc Process Instruments Div 2500 Fullerton Rd Fullerton Calif Belfab Corp 11 Ramah Circle Agawam Mass 38-56 Bell Aircraft Corp PO Rox 1 Buffalo 5 NY 41-49-64 Belock Instrument Corp	305 Dallas St NE Albuquerque New Mex 77 Chicago Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III 73 Cincinnati Time Recorder Co 1733 Central Ave Cincinnati 14 Ohio 42-63 Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham 58 London S E 26 England 63-68-70-72-73-74-75 Clark Controller Co 1146 E 152 St 36-38-39-46- Cleveland 10 Ohio 50-52-58 Clarostat Mfg Co Washington St Dover NH 59 Clary Corp 408 Junipero St San Gabriel Calif 70-73 Comac Instrument Co 66-11 99 St Forest Hills 74 NY 49 Communication Accessories Co 110 St & 71 Hwy Hickman Mills Mo 41-58-68 Conn Telephone & Electric Corp 70 Brittania St Meriden Conn 41 Conoflow Corp 2100 Arch St Philadelphia 3 Pa 36-38-56 Corsolidated Avionics Corp 66 Brooklyn Ave Westbury NY 36-38-41-49-52-58 Consolidated Electrodynamics Corp 300 N Sierra Madre Villa Pasadena Calif Consolidated Electrodynamics Corp Rochester Div 1775 Mt Read Blvd Rochester 4 NY 56 Consolidated Productions Inc Broward Int'l Airport Ft Lauderdale Fla 36
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Timers, cyclic	Ontario Canada Bailey Meter Co 1050 Ivanhoe Rd Cleveland 10 Ohio 36-38-44-46-49-50-56 Baird-Atomic Inc 33 University Rd Cambridge 38 Mass Balteau Electric Corp New and Meadow Sts Stamford Conn 77 Barber-Colman Co Rock St Rockford Ill 36-50-57-71 Barker Sales Co 996 Edgewater Ave Ridgefield NJ 63 Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass 63 Barton Electronies Inc 1000 Farmington Ave W Hartford 7 Conn 36-52-73 Basic Controls Co 1714 Westwood Blvd 42-43-44-50 Los Angeles 24 Calif 70-71-72-73-74-75 Bayside Timers 45-25 162 St Flushing 58 NY 71-72-73-75 Beckman/Berkeley Div Beckman Instruments Inc 970-620 Wright Ave Richmond 3 Calif 73-74 Beckman Instruments Inc Process Instruments Div 2500 Fullerton Rd Fullerton Calif 41 Belfab Corp 11 Ramah Circle Agawam Mass 38-56 Bell Aircraft Corp PO Rox 1 Buffalo 5 NY 41-49-64 Belock Instrument Corp 111-01 14 Ave College Point 56 NY 41-64-75 Bendix Aviation Corp Red Bank Div Eatontown NJ 68 Bendix Aviation Corp Red Bank Div Eatontown NJ 68 Bendix Aviation Corp Red Bank Div Eatontown NJ 68 Bendix Aviation Corp Red Bank Div Eatontown NJ 68 Bendix Aviation Corp Red Bank Div Eatontown NJ 68 Bendix Aviation Corp Red Bank Div Eatontown NJ 68 Bendix Aviation Corp Red Bank Div Eatontown NJ 68 Bendix Aviation Corp Red Bank Div Eatontown NJ 68 Bendix Aviation Corp Red Bank Div Eatontown NJ 68 Bendix Aviation Corp Cincinnati Div 3130 Wasson Rd Cincinnati 8 Ohio Bergen Labs 247 Crooks Ave Clifton NJ 41-52 Bernoc Engineering Corp	305 Dallas St NE Albuquerque New Mex 77 Chicago Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III 73 Cincinnati Time Recorder Co 1733 Central Ave Cincinnati 14 Ohio 42-63 Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham 58 London S E 26 England 63-68-70-72-73-74-75 Clark Controller Co 1146 E 152 St 36-38-39-46- Cleveland 10 Ohio 50-52-58 Clarostat Mfg Co Washington St Dover NH 59 Clary Corp 408 Junipero St San Gabriel Calif 70-73 Comac Instrument Co 66-11 99 St Forest Hills 74 NY 49 Communication Accessories Co 110 St & 71 Hwy Hickman Mills Mo 41-58-68 Conn Telephone & Electric Corp 70 Brittania St Meriden Conn 41 Conoflow Corp 2100 Arch St Philadelphia 3 Pa 36-38-56 Corsolidated Avionics Corp 66 Brooklyn Ave Westbury NY 36-38-41-49-52-58 Consolidated Electrodynamics Corp 300 N Sierra Madre Villa Pasadena Calif Consolidated Electrodynamics Corp Rochester Div 1775 Mt Read Blvd Rochester 4 NY 56 Consolidated Productions Inc Broward Int'l Airport Ft Lauderdale Fla 36 Continental X-Ray Corp 1536 N Clybourn Ave Chicavo 10 III 62-77 Control Corp 718 Central Ave NE Minneapolis 14 Minn Control Specialists Inc 115 E Arbor Vitae St Inglewood 1 Calif 41 Control Specialists Inc 115 E Arbor Vitae St Inglewood 1 Calif 41 Control Specialists Inc 115 E Arbor Vitae St Inglewood 1 Calif 41 Control Specialists Inc 115 E Arbor Vitae St Inglewood 1 Calif 41 Control Specialists Inc 115 E Arbor Vitae St Inglewood 1 Calif 41 Control Specialists Inc 115 E Arbor Vitae St Inglewood 1 Calif 41 Control Specialists Inc 115 E Arbor Vitae St Inglewood 1 Calif 41 Control Specialists Inc 115 E Arbor Vitae St Inglewood 1 Calif 41 Control Specialists Inc 115 E Arbor Vitae St Inglewood 1 Calif 41 Control Specialists Inc 115 E Arbor Vitae St Inglewood 1 Calif 41 Control Specialists Inc 115 E Arbor Vitae St Inglewood 1 Calif 41 Control Corp

Centerbrook Conn 52-70-71-72-73-75		Hagan Chemicals & Controls Inc
Crescent Eng'g & Research Co	55 Reade St New York 7 NY 50 El-Tronics Inc	Hagan Bldg 36-38-41-43-45-46-49-
5440 N Peck Rd	Penn Ave Mayfield Pa 63	Pittsburgh 30 Pa 50-51-52-53-56-60
El Monte Calif 36-38-41-47-53-60	Emmett Machine & Mfg	Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif 41
Cutler-Hammer Inc	445 E Turkeyfoot Lake Rd	Hallikainen Instruments
315 N 12 St Milwaukee 1 Wisc 38-39-52-58-68	Akron 19 Ohio 38-50-52-71-75 Endevco Corp	1341 7 St Berkeley 10 Calif 50
Milwaukee 1 Wisc 38-39-52-58-68 Dallons Labs	161 E California St Pasadena Calif 38-63	Hamilton Watch Co Allied Products Div
5066 Santa Monica Blvd	Engineered Magnetics Div Gulton	Columbia Ave Lancaster Pa 71 Hammarlund Mfg Co
Los Angeles 29 Calif 55	Industries Inc 13030 Cerise Ave	460 W 34 St New York 1 NY 42-49
Dalmo Victor Co Div Textron Inc	Hawthorne Calif 41-58-67-68	Hamner Electronics Co
1515 Industrial Way Belmont Calif 41-69 Darco Industries Inc Gyro Dynamics Div	Exide Industrial Div Electric Storage Battery Co	Princeton NJ 70
2151 E Rosecrans Ave	42 S 15 St Philadelphia 2 Pa 58	Hancock Electronics Corp
El Segundo Calif 41-64	Fairchild Controls Corp Components Div	2553 Middlefield Rd Redwood City Calif 49
Daven Co	225 Park Ave Hicksville LI NY 38	Hansen Co Wm 165 Silverbrook Ave Niles Mich 71-73
Route 10 Livingston NJ 36-37-49	Farmer Electric Products Co	Harrison Labs
Davenport Mfg Co 1713 N Ashland Ave	2300 Washington St Newton Lower Falls 62 Mass 52-73-74	45 Industrial Rd Berkeley Heights NJ 68
Chicago 22 Ill 34-50-63-74	Newton Lower Falls 62 Mass 52-73-74 Farrand Controls Inc	Hastings-Raydist Inc
Daystrom Pacific Corp	4401 Bronx Blvd New York 70 NY 36-41	Newcomb Ave Hampton Va 56
3030 Nebraska Ave	Federal Equipment Co	Haydon Co A W 232 N Elm St
Santa Monica Calif 38-52-64-71-73-75	38 Brady St San Francisco 3 Calif 63	Waterbury 20 Conn 49-52-71-72-73-75
Defender Instrument & Regulator Co Boody Ill 36-38-43-50-56	Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ 36-41-50-68	Haydon Mfg Co
Deitz Co S J	Feedback Controls Inc	245 E Elm St
9 E Wesley St S Hackensack NJ 40	899 Main St Waltham 54 Mass 41	Torrington Conn 52-70-71-72-73-75 Hays Corp
Del Electronics Corp	Fenwal Inc	Michigan City Ind 38-41-50
41 N Mac Questen Pkwy Mt Vernon NY 62	Pleasant St Ashland Mass 50	Hays Mfg Co
Denison Eng'g Div American Brake Shoe 1160 Dublin Rd Columbus 16 Ohio 38-69	Fielden Instrument Div Robertshaw-Fulton Controls Co	12 & Liberty Sts Erie Pa 69
Design Tool Corp	2920 N 4 St Philadelphia 33 Pa 50	Healy-Ruff Co
80 Washington St New York 6 NY 36	First Electronics Corp	2255 University Ave St Paul 14 Minn 38-49 Hevi-Duty Electric Co
Devol Research Co	117 Blue Hill Ave Boston 19 Mass 73	4212 W Highland Blvd Milwaukee 1 Wisc 67
Brookside Dr Greenwich Conn 41	Fischer & Porter Co	High Vacuum Equipment Corp
Devco Eng'g Inc PO Box 387 36-38-41-42-45-49-	478 Warminster Rd Hatboro Pa 37-38-42-45-49-50-56	2 Churchill Rd Hingham Mass 56
Caldwell NJ 50-51-52-53-57-59	Fisher Governor Co	High Voltage Eng'g Corp
Dietz Co Henry G	Marshalltown Iowa 38	Burlington Mass 77 Hillburn Electronic Products Co
12-16 Astoria Blvd 38-52-56-57-	Fisher Scientific Co	55 Nassau Ave Brooklyn 22 NY 69
Long Island City 2 NY 71-72-73-75	711 Forbes St Pittsburgh 22 Pa 45-50	Hoover Electronics Co
Dimco-Gray Co 207 E 6 St Dayton 2 Ohio 73	Flight Research Inc	3640 Woodland Ave Baltimore 7 Md 49
207 E 6 St Dayton 2 Ohio 73 Dittmore-Freimuth Corp	PO Box 1-F Richmond 1 Va 74 FluiDyne Eng'g Corp	Hubbard Scientific Labs
2517 E Norwich St Milwaukee 7 Wisc 63	425 N 7 St Minneapolis 6 Minn 41-47	1292 E 3 St Pomona Calif 72-73-75
Durant Mfg Co	Ford Instrument Co Div Sperry Rand Corp	Humphrey Inc 2805 Canon St San Diego Calif 64
1950 N Buffum St Milwaukee 1 Wisc 63 Dynalysis Development Labs Inc	31-10 Thomson Ave	Hupp Electronics Co Div Hupp Corp
11941 Wilshire Blvd	Long Island City 1 NY Foster Eng'g Co	743 Circle Ave Forest Park Ill 36-49
Los Angeles 25 Calif 58	835 Lehigh Ave Union NJ 38-50	Huppert Co K H 6830 Cottage Grove Ave Chicago 37 III 50
Dynamics Instrumentation Co	Foto-Video Labs Inc	6830 Cottage Grove Ave Chicago 37 III 50 Hupp Instru/mation Co
Div Alberhill Corp	25 Amity St Little Falls NJ 70	2119 Sepulveda Blvd
1118 Mission St S Pasadena Calif 67-68 Dynamics Research Associates Div	Freed Transformer Co 1718-36 Weirfield St Brooklyn 27 NY 63	Los Angeles 25 Calif 70-73
Universal Match Corp PO Box 5841	Friez Instrument Div Bendix Aviation Corp	Ideal-Aerosmith Inc 12909 S Cerise Ave Hawthorne Calif 69
Ferguson 21 Mo 36-41-45-50-51-52-58	1400 Taylor Ave Baltimore 4 Md 38-50-77	12909 S Cerise Ave Hawthorne Calif 69 Illinois Testing Labs Inc
Eagle Signal Corp 202 20 St Moline Ill 71-73-75	Furnas Electric Co	420 N LaSalle St Chicago 18 Ill 50
202 20 St Moline III 71-73-75 Eastman Pacific Co	1000 McKee St Batavia Ill 38 Gaertner Scientific Corp	I-I-S Instrument Corp
2320 E 8 St Los Angeles 21 Calif 71-73	1250 Wrightwood Ave Chicago 14 Ill 72	4525 W 160 St Cleveland 11 Ohio 70-73 Indikon Co
Eberline Instrument Div Reynolds Electrical	Garrett Corp AiResearch Mfg Co Div	76 Coolidge Hill Rd
805 Early St Santa Fe N Mexico 63 Eclipse Fuel Eng'g Co	9851 Sepulveda Blvd	Watertown 72 Mass 38-47-50
1100 Buchanan Rockford III 42	Los Angeles 45 Calif 36-41-46 Gates Radio Co	Industrial Control Co
Eclipse-Pioneer Div Bendix Aviation Corp	123 Hampshire St Quincy Ill 58-68	805 Albin Ave Lindenhurst LI NY 41-53 Industrial Electronic Engineers
Teterboro NJ 41.64	General Bronze Corp	3973 Lankershim Blvd
Edison Industries Thomas A Instrument Div	711 Stewart Ave Garden City NY 41	N Hollywood Calif 52-60-63-70
93 Lakeside Ave W Orange NJ 50-76	General Communication Co	Industrial Electronics Inc
Eisler Eng'g Co	677 Beacon St Boston 15 Mass 45	8060 Wheeler St Detroit 10 Mich 38-41-60
Eisler Eng'g Co 750 S 13 St Newark 3 NJ 61	General Control Co	Industrial Research Labs Div Aeronca
Eisler Eng'g Co 750 S 13 St Newark 3 NJ Electrical Communications Inc	General Control Co 1200 Soldiers Field Rd	Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds
Eisler Eng'g Co 750 S 13 St Newark 3 NJ 61 Electrical Communications Inc 765 Clementina St	General Control Co 1200 Soldiers Field Rd Boston 34 Mass 42-49-52-71-72-73-74-75 General Controls Co	Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md 36-37-41-49-58
Eisler Eng'g Co 750 S 13 St Newark 3 NJ Electrical Communications Inc 765 Clementina St San Francisco 3 Calif 41.42.49.54	General Control Co 1200 Soldiers Field Rd Boston 34 Mass 42-49-52-71-72-73-74-75 General Controls Co 801 Allen Ave Glendale 1 Calif 38-50-56-69	Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md 36-37-41-49-58 Industrial Timer Corp 1407 McCarter Hwy
Eisler Eng'g Co 750 S 13 St Newark 3 NJ 61 Electrical Communications Inc 765 Clementina St San Francisco 3 Calif Electrical & Physical Instrument Corp 42-19 27 St Long Island City 1 NY 63	General Control Co 1200 Soldiers Field Rd Boston 34 Mass 42-49-52-71-72-73-74-75 General Controls Co 801 Allen Ave Glendale 1 Calif 38-50-56-69 General Electric Co Apparatus Sales Div	Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Industrial Timer Corp 1407 McCarter Hwy Newark 4 NJ 52-70-71-73-75
Eisler Eng'g Co 750 S 13 St Newark 3 NJ 61 Electrical Communications Inc 765 Clementina St San Francisco 3 Calif 41-42-49-54 Electrical & Physical Instrument Corp 42-19 27 St Long Island City 1 NY 63 Electric Eye Equipment Co	General Control Co 1200 Soldiers Field Rd Boston 34 Mass	Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md 36-37-41-49-58 Industrial Timer Corp 1407 McCarter Hwy Newark 4 NJ 52-70-71-73-75 Industrial Winding Mchy Co
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Eisler Eng'g Co 750 S 13 St Newark 3 NJ Electrical Communications Inc 765 Clementina St San Francisco 3 Calif Electrical & Physical Instrument Corp 42-19 27 St Long Island City 1 NY Electric Eye Equipment Co 1941 E Fairchild St Danville III Electric Machinery Mfg Co	General Control Co 1200 Soldiers Field Rd Boston 34 Mass	Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md 36-37-41-49-58 Industrial Timer Corp 1407 McCarter Hwy Newark 4 NJ 52-70-71-73-75 Industrial Winding Mchy Co 120 Wall St New York 5 NY 63 International Business Machines Corp 590 Madison Ave New York 23 NY 52
Eisler Eng'g Co 750 S 13 St Newark 3 NJ 61 Electrical Communications Inc 765 Clementina St San Francisco 3 Calif 41-42-49-54 Electrical & Physical Instrument Corp 42-19 27 St Long Island City 1 NY 63 Electric Eye Equipment Co 1941 E Fairchild St Danville III 39-40 Electric Machinery Mfg Co 800 Central Ave Minneapolis 13 Minn 46-53-58	General Control Co 1200 Soldiers Field Rd Boston 34 Mass 42-49-52-71-72-73-74-75 General Controls Co 801 Allen Ave Glendale 1 Calif 38-50-56-69 General Electric Co Apparatus Sales Div 1 River Rd 36-38-39-40-52-56- Schenectady 5 NY 58-61-68-71-73 General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wisc 77 General Magnetics Inc	Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Industrial Timer Corp 1407 McCarter Hwy Newark 4 NJ Industrial Winding Mchy Co 120 Wall St New York 5 NY International Business Machines Corp 590 Madison Ave New York 23 NY 52 International Register Co
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Eisler Eng'g Co       61         750 S 13 St Newark 8 NJ       61         Electrical Communications Inc       765 Clementina St         San Francisco 3 Calif       41-42-49-54         Electrical & Physical Instrument Corp       42-19 27 St Long Island City 1 NY       63         Electric Eye Equipment Co       1941 E Fairchild St Danville Ill       39-40         Electric Machinery Mfg Co       800 Central Ave       46-53-58         Electric Regulator Corp       7earl St Norwalk Conn       37-46-51-58	General Control Co 1200 Soldiers Field Rd Boston 34 Mass 42-49-52-71-72-73-74-75 General Controls Co 801 Allen Ave Glendale 1 Calif 38-50-56-69 General Electric Co Apparatus Sales Div 1 River Rd 36-38-39-40-52-56- Schenectady 5 NY 58-61-68-71-73 General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wisc 77 General Magnetics Inc 135 Bloomfield Ave Bloomfield NJ 67-68 General Radio Co	Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Industrial Timer Corp 1407 McCarter Hwy Newark 4 NJ Industrial Winding Mchy Co 120 Wall St New York 5 NY International Business Machines Corp 590 Madison Ave New York 23 NY 52 International Register Co 2620 W Washington Blvd Chicago 12 Ill 71-73
Eisler Eng'g Co 750 S 13 St Newark 3 NJ Electrical Communications Inc 765 Clementina St San Francisco 3 Calif Electrical & Physical Instrument Corp 42-19 27 St Long Island City 1 NY 63 Electric Eye Equipment Co 1941 E Fairchild St Danville III 39-40 Electric Machinery Mfg Co 800 Central Ave Minneapolis 13 Minn 46-53-58 Electric Regulator Corp Pearl St Norwalk Conn 137-46-51-58 Electro-Devices Inc	General Control Co 1200 Soldiers Field Rd Boston 34 Mass 42-49-52-71-72-73-74-75 General Controls Co 801 Allen Ave Glendale 1 Calif 38-50-56-69 General Electric Co Apparatus Sales Div 1 River Rd 36-38-39-40-52-56- Schenectady 5 NY 58-61-68-71-73 General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wisc 77 General Magnetics Inc 135 Bloomfield Ave Bloomfield NJ 67-68 General Radio Co 275 Massachusetts Ave	Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Industrial Timer Corp 1407 McCarter Hwy Newark 4 NJ Industrial Winding Mchy Co 120 Wall St New York 5 NY International Business Machines Corp 590 Madison Ave New York 23 NY 52 International Register Co 2620 W Washington Blvd Chicago 12 Ill I Q Industries 1714 Westwood Blvd 42-43-44-50-70-
Eisler Eng'g Co       61         750 S 13 St Newark 3 NJ       61         Electrical Communications Inc       765 Clementina St         San Francisco 3 Calif       41-42-49-54         Electrical & Physical Instrument Corp       42-19 27 St Long Island City 1 NY       63         Electric Eye Equipment Co       61         1941 E Fairchild St Danville III       39-40         Electric Machinery Mfg Co       800 Central Ave         Minneapolis 13 Minn       46-53-58         Electric Regulator Corp       Pearl St Norwalk Conn       37-46-51-58         Electro-Devices Inc       4 Godwin Ave Paterson 1 NJ       41-51-53	General Control Co 1200 Soldiers Field Rd Boston 34 Mass 42-49-52-71-72-73-74-75 General Controls Co 801 Allen Ave Glendale 1 Calif 38-50-56-69 General Electric Co Apparatus Sales Div 1 River Rd 36-38-39-40-52-56- Schenectady 5 NY 58-61-68-71-73 General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wisc 77 General Magnetics Inc 135 Bloomfield Ave Bloomfield NJ 67-68 General Radio Co	Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Industrial Timer Corp 1407 McCarter Hwy Newark 4 NJ Industrial Winding Mchy Co 120 Wall St New York 5 NY 52-70-71-73-75 Industrial Winding Mchy Co 120 Wall St New York 5 NY 530 Madison Ave New York 23 NY 52 International Business Machines Corp 590 Madison Ave New York 23 NY 52 International Register Co 2620 W Washington Blvd Chicago 12 II 71-73 I Q Industries 1714 Westwood Blvd Los Angeles 24 Calif 71-72-73-74-75
Eisler Eng'g Co 750 S 13 St Newark 3 NJ Electrical Communications Inc 765 Clementina St San Francisco 3 Calif Electrical & Physical Instrument Corp 42-19 27 St Long Island City 1 NY 63 Electric Eye Equipment Co 1941 E Fairchild St Danville III Electric Machinery Mfg Co 800 Central Ave Minneapolis 13 Minn 46-53-58 Electro-Devices Inc 4 Godwin Ave Paterson 1 NJ Electrola Inc 7517 N Clark St Chicago 26 III 36-41	General Control Co 1200 Soldiers Field Rd Boston 34 Mass 42-49-52-71-72-73-74-75 General Controls Co 801 Allen Ave Glendale 1 Calif 38-50-56-69 General Electric Co Apparatus Sales Div 1 River Rd 36-38-39-40-52-56- Schenectady 5 NY 58-61-68-71-73 General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wisc 77 General Magnetics Inc 135 Bloomfield Ave Bloomfield NJ 67-68 General Radio Co 275 Massachusetts Ave Cambridge 39 Mass 46-50-58-68 General RF Fittings Inc 702 Beacon St Boston 15 Mass 65	Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Industrial Timer Corp 1407 McCarter Hwy Newark 4 NJ Industrial Winding Mchy Co 120 Wall St New York 5 NY 100 Madison Ave New York 23 NY 100 Madison Ave New York 23 NY 100 Madison Ave New York 23 NY 100 Madison Blvd Chicago 12 Ill 110 Q Industries 1714 Westwood Blvd 12-72-73-74-75 1 Iron Fireman Mfg Co Electronics Div
Eisler Eng'g Co         61           750 S 13 St Newark 3 NJ         61           Electrical Communications Inc         765 Clementina St           San Francisco 3 Calif         41-42-49-54           Electrical & Physical Instrument Corp         42-19 27 St Long Island City 1 NY         63           Electric Eye Equipment Co         61           1941 E Fairchild St Danville Ill         39-40           Electric Machinery Mfg Co         800 Central Ave           Minneapolis 13 Minn         46-53-58           Electric Regulator Corp         Pearl St Norwalk Conn         37-46-51-58           Electro-Devices Inc         4 Godwin Ave Paterson 1 NJ         41-51-53           Electrola Inc         7517 N Clark St Chicago 26 Ill         36-41           Electro-Mechanical Div General Riveters Inc	General Control Co 1200 Soldiers Field Rd Boston 34 Mass 42-49-52-71-72-73-74-75 General Controls Co 801 Allen Ave Glendale 1 Calif 38-50-56-69 General Electric Co Apparatus Sales Div 1 River Rd 36-38-39-40-52-56- Schenectady 5 NY 58-61-68-71-73 General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wisc 77 General Magnetics Inc 135 Bloomfield Ave Bloomfield NJ 67-68 General Radio Co 275 Massachusetts Ave Cambridge 39 Mass 46-50-58-68 General RF Fittings Inc 702 Beacon St Boston 15 Mass 65 Giannini & Co G M	Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Industrial Timer Corp 1407 McCarter Hwy Newrk 4 NJ Industrial Winding Mchy Co 120 Wall St New York 5 NY International Business Machines Corp 590 Madison Ave New York 23 NY 52 International Register Co 2620 W Washington Blvd Chicago 12 Ill I Q Industries 1714 Westwood Blvd Los Angeles 24 Calif Iron Fireman Mfg Co Electronics Div 2838 SE 9 Ave Portland 2 Ore 64
Eisler Eng'g Co       61         750 S 13 St Newark 8 NJ       61         Electrical Communications Inc       765 Clementina St         San Francisco 3 Calif       41-42-49-54         Electrical & Physical Instrument Corp       42-19 27 St Long Island City 1 NY       63         Electric Eye Equipment Co       39-40         Electric Eye Equipment Co       39-40         Electric Machinery Mfg Co       800 Central Ave         Minneapolis 13 Minn       46-53-58         Electric Regulator Corp       9-earl St Norwalk Conn       37-46-51-58         Electro-Devices Inc       4 Godwin Ave Paterson 1 NJ       41-51-53         Electro-Mechanical Div General Riveters Inc       7617 N Clark St Chicago 26 Ill       36-41         Electro-Mechanical Div General Riveters Inc       785 Hertel Ave Buffalo 7 NY       53	General Control Co 1200 Soldiers Field Rd Boston 34 Mass 42-49-52-71-72-73-74-75 General Controls Co 801 Allen Ave Glendale 1 Calif 38-50-56-69 General Electric Co Apparatus Sales Div 1 River Rd 36-38-39-40-52-56- Schenectady 5 NY 58-61-68-71-73 General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wisc 77 General Magnetics Inc 135 Bloomfield Ave Bloomfield NJ 67-68 General Radio Co 275 Massachusetts Ave Cambridge 39 Mass 46-50-58-68 General RF Fittings Inc 702 Beacon St Boston 15 Mass 65 Giannini & Co G M 918 E Green St	Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md Industrial Timer Corp 1407 McCarter Hwy Newark 4 NJ Industrial Winding Mchy Co 120 Wall St New York 5 NY 100 Madison Ave New York 23 NY 100 Madison Ave New York 23 NY 100 Madison Ave New York 23 NY 100 Madison Blvd Chicago 12 Ill 110 Q Industries 1714 Westwood Blvd 12-72-73-74-75 1 Iron Fireman Mfg Co Electronics Div
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Eisler Eng'g Co         61           750 S 13 St Newark 3 NJ         61           Electrical Communications Inc         765 Clementina St           San Francisco 3 Calif         41-42-49-54           Electrical & Physical Instrument Corp         42-19 27 St Long Island City 1 NY         63           Electric Eye Equipment Co         1941 E Fairchild St Danville Ill         39-40           Electric Machinery Mfg Co         300 Central Ave         46-53-58           Electro Regulator Corp         Pearl St Norwalk Conn         37-46-51-58           Electro-Devices Inc         4 Godwin Ave Paterson 1 NJ         41-51-53           Electrola Inc         7517 N Clark St Chicago 26 Ill         36-41           Electro-Mechanical Div General Riveters Inc         785 Hertel Ave Buffalo 7 NY         53           Electronic Control Corp         1573 E Forest Ave         Detroit 7 Mich         43-44-50-52-53           Electronic Control Systems         2136 Westwood Blvd         Los Angeles 25 Calif         41	General Control Co 1200 Soldiers Field Rd Boston 34 Mass 42-49-52-71-72-73-74-75 General Controls Co 801 Allen Ave Glendale 1 Calif 38-50-56-69 General Electric Co Apparatus Sales Div 1 River Rd 36-38-39-40-52-56- Schenectady 5 NY 58-61-68-71-73 General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wisc 77 General Electric Ave Milwaukee 1 Wisc 77 General Magnetics Inc 135 Bloomfield Ave Bloomfield NJ 67-68 General Radio Co 275 Massachusetts Ave Cambridge 39 Mass 46-50-58-68 General RF Fittings Inc 702 Beacon St Boston 15 Mass 65 Giannini & Co G M 918 E Green St Pasadena Calif 36-38-41-42-46-49-50-56-64 Gilmore Industries Inc 5713 Euclid Ave Cleveland 3 Ohio 60 Globe Industries Inc 1784 Stanley Ave Dayton 4 Ohio 64 Gorrell & Gorrell	Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md   36-37-41-49-58
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Kinney Mfg Div Vacuum Equip	Minneapolis-Honeywell Regulator Co Industrial Div Wayne & Windrim Aves	Production Research Corp Thornwood NY 41-42-49-63-72-73
Div NY Air Brake Co 3529 Washington St Boston 30 Mass 56	Philadelphia 44 Pa 37-38-41-50-56	PSP Eng'g Co Div Induction Motors
Kollsman Instrument Corp Sub Standard Coil Products 80-08 45 Ave	Modelectric Products Corp Asbury Park NJ 65	Pye Canada Ltd
Elmhurst 73 NY 36-38-46	Modern Industries Inc	82 Northline Rd Toronto 16 Ontario Canada 55
Labline Inc 3070 W Grand Ave Chicago 22 Ill 73	2601 Colorado Ave Santa Monica Calif 41-50-58-67-68	Pve Telecommunications Ltd
Laboratory For Electronics Inc	Modern Laboratory Equip Co	Newmarket Rd Cambridge England 58-68 Radiation Research Corp
75 Pitts St Boston 14 Mass 63 Land-Air Inc Instrument & Electronic Div	1811 1 Ave New York 28 NY 50-73 Moeller Instrument Co	140 E 59 St New York 22 NY 73-75
2133 Adams Ave San Leandro Calif 49	132-02-89 Ave Richmond Hill 18 NY 50	Radio Frequency Labs Inc Boonton NJ 49
Land-Air Inc 7444 W Wilson Ave Chicago 31 Ill 62	Montgomery Mfg Co 206 S Main Owensville Ind 42-52-71-73-75	Ram Meter Inc
Landis & Cyr	Moog Valve Co Proner Airport E Aurora NY 41	1100 Hilton Rd Ferndale 20 Mich 63 Ransom Research
45 W 45 St New York 36 NY 63 Larson Instrument Co	Muirhead Instruments Inc	323 W 7 St San Pedro Calif 58-63-73
24 Orchard St Tarrytown NY 43-44-50 Leach Corp Inet-Palmer Div	677 5 Ave New York 22 NY 41 Nagog Associates Inc	Raytheon Mfg Co 100 River St Waltham 54 Mass 68
4441 S Santa Fe Ave	Littleton Mass 52-53	Raytheon Mfg Co Commercial Equip Div
Los Angeles 58 Calif 58 Lear Inc	National Aircraft Corp Electronics Div 3411 Tulare Ave Burbank Calif 67-69	Por Co I R
3171 S Bundy Drive	National Bell Corp	1723 Cloverfield Blvd Santa Monica Calif 64
Santa Monica Calif 36-41-64 Leeds & Northrup Co	6 Lafayette Ave Brooklyn 17 NY 52 National Cine Equipment Inc	Reeves Instrument Corp 215 E 91 St New York 28 NY 36-41-64
4970 Stenton Ave	209 W 48 St New York 36 NY 73	Reliance Automatic Lighting Co 1922 Mead St Racine 3 Wisc 52-73
Philadelphia 44 Pa 37-41-50 Lektra Labs Inc	National Spectrographic Labs Inc 6300 Euclid Ave Cleveland 3 Ohio 77	Reliance Electric and Eng'g Co
154 11 Ave New York 11 NY 71-73-74-75	National X-Ray Products Corp	24701 Euclid Ave Cleveland 17 Ohio 46-58-68
Leslie Co Lyndhurst NJ 38-50	71 S Newman St Hackensack NJ 77 Navco Navigation Computer Corp	Research Electronics Lab Roslyn Pa 56
Liebel-Flarsheim Co	1621 Snyder Ave Philadelphia 45 Pa 63	Resistron Labs Inc 2908 Nebraska Ave Santa Monica Calif 77
111 E Amity Rd Cincinnati 15 Ohio 71-73 Lisk Co G W	Nemeth Inc 2223 S Carmelina Ave	Payer Inc
Clifton Springs NY 69	Los Angeles 64 Calif 41-49-64-70-71	1900 Lyndale Ave S Minneapolis 5 Minn 46 Reynolds Electric Co
Litton Industries of Calif 336 N Footbill Rd Beverly Hills Calif 41-64	Newark Controls Co 15 Ward St Bloomfield NJ 38	3000 River Rd River Grove III 42-54-76
Lumenite Electronic Co	New York Air Brake Co 230 Park Ave New York 17 NY 56	Rich Electronics Inc 212 NW 8 Ave Miami 36 Fla 41-49
407 S Dearborn St Chicago 5 Ill 43-52-71-72-73-74-75	N J E Corp	Ripley Co
Lux Clock Mfg Co	345 Carnegie Ave Kenilworth NJ 67-68	1 Factory St Middletown Conn 40-44-52 Rixon Electronics Inc
Johnson St Waterbury Conn 73 Lytle Eng'g & Mfg Co	Norden-Ketay Corp Commerce Rd Stamford Conn 41-64	2414 Reedie Dr Silver Spring Md 63
1404 San Mateo Blvd SE Albuquerque New Mexico 71-73	North American Instruments Inc 2420 N Lake St Altadena Calif 36-38	Robertshaw-Fulton Controls Co Fulton Sylphon Div
Albuquerque New Mexico 71-73 McQuay-Norris Mfg Co	North Atlantic Industries Inc	PO Box 400 Knoxville 1 Tenn 50-56-57
2320 Marconi St St Louis 10 Mo 69	603 Main St Westbury NY 60	Robinette Co W C 802 Fair Oaks Ave S
Machinery Electrification Inc 35 Hudson St	North Electric Co 553 S Market St Galion Ohio 37-49	Pasadena Calif 36-41-46-51
Northboro Mass 40-52-71-72-73-74-75 Mack Electronics Div Mack Trucks Inc	NRC Equipment Corp Sub National Research Corp 160 Charlemont St	Robotron Corp 21300 W 8 Mile Rd Detroit 19 Mich 61
40 Leon St Boston 15 Mass 36-41-46-63	Newton Highlands 61 Mass 38-56	Rockwell Eng'g Co
Magnetio Amplifiers Inc 632 Tinton Ave	O'Brien Electric Corp 6514 Santa Monica Blvd	Polah Studios
New York 55 NY 36-37-41-58-67-68	Hollywood 38 Calif 71	Walnut Tree Hill Sandy Hook Conn 73
Magnetic Research Corp	Ohmart Corp	Rollan Electric Co 8233 S Princeton Ave Chicago 20 Ill 51
3160 W El Segundo Blvd Hawthorne Calif 36-41-58-68	2236 Bogen St Cincinnati 14 Ohio 45 Ohmite Mfg Co	Ronan & Kunzl
Magnuson Engineers Inc 590 Emory St San Jose 10 Calif 72	3601 Howard St Skokie Ill 46	Poter Punch Co
Magtrol Inc	Omega Instrument Co 103 E Altadena Dr Altadena Calif 38	2350 Alvarado St San Leandro Calif 69
38 Virginia Pl Buffalo 2 NY 53 Mallory & Co Inc P R	Otis Elevator Electronic Div 35 Ryerson St Brooklyn 5 NY 41-55	Royal Communication Systems 11462 Euclid Ave Cleveland 6 Ohio 49
42 S Gray St	Pacific Scientific Co	Royeon Eng'g Co
Indianapolis 6 Ind 52-71-73-75-76 Manning Maxwell & Moore Inc	PO Box 22019 Los Angeles 22 Calif 64 Packard Bell Electronics Corp	St John X-Ray Lab
Shelter Rock Lane	12333 W Olympic Blvd	Califon NJ
Danbury Conn 38-41-46-50-56-69 Manostat Corp	Los Angeles 64 Calif 68 Pantek Co	Sanders Associates 95 Canal St Nashua NH 64
20-26 N Moore St New York 13 NY 38-56	PO Box 212 El Segundo Calif 36-38-47-63	Sangamo Electric Co
Marvel-Schebler Products Div Borg Warner Corp	Paragon Electric Co 1600 12 St Two Rivers Wisc 52-72-73	Sarco Co
Box 863 Decatur III 41	Parsons Co Ralph M Electronics Div	350 Fifth Ave New York 1 NY
Matthew Labs 146 Riverdale Ave Yonkers NY 67-68	151 S De Lacey Ave Pasadena Calif 49 Pegasus Labs Inc	Scaico Controls Inc Market St Palmyra NJ 38-50-52
Maxson Instruments Div W L Maxson Corp	3690 W 11 Mile Rd Berkley Mich 36-41	Scientific Glass Apparatus Co
47-37 Austell Pl Long Island City 1 NY 58-68	Penn Controls Inc Goshen Ind \$8-50	Schirmer-National Alarm Co
Measurement Eng'g Ltd	Penn-East Eng'g Corp	20 Westside Ave Bergenfield NJ 44
232 John St Arnprior Ontario Can 71 Mercoid Corp	Willow St Kutztown Pa 41 Peschel Electronics Inc	Seaboard Electric Products Corp 417 Canal St New York 13 NY 41
4201 Belmont Ave Chicago 41 Ill 38-50-56	13 Garden St New Rochelle NY 63	Seely Instrument Co 377 4 St Niagara Falls NY 71-73-75
Mercury Electronic Co Box 450 B Red Bank NJ 67-68	Philadelphia Scientific Glass Co Box 460 Paleton Rd Quakertown Pa 67	Sonece Falls Machine Co
Metals & Controls Corp	Philips Electronics Inc	314 Fall St Seneca Falls NY 36-41-46-53-60
Spencer Thermostat Div 48 Forest St Attleboro Mass 50	750 S Fulton Ave Mt Vernon NY 77	Sensory Inc Pleasantville Rd New Vernon NJ 36
Michigan Electronics Inc	Phoenix Precision Instrument Co 3803 N 5 St Philadelphia 40 Pa 43-44	Serdex Inc 91 Cambridge St Boston 14 Mass 50
854 N Rockwell St Chicago 22 Ill 52 Micrometrical Mfg Co	Photo Crystals Inc	Servo Corp of America
345 S Main St Ann Arbor Mich 48 Microtran Co	15 S 1 St Geneva Ill 43-44-61 Photobell Co	2020 Jericho Turnpike New Hyde Park NY 36-41-50
145 E Mineola Ave Vallev Steam NY 68	43 Vesey St 40-43-44-45-46-52-	Servemechanisms Inc
Miller-Harris Instrument Co 601 E Ogden Ave	New York 7 NY 54-59-60-63-70-74 Photographic Analysis Inc	12500 Aviation Blvd Hawthorne Calif 36-41 Servomex Controls Ltd
Milwaukee 2 Wisc 71-73-75	13273 Ventura Blvd N Hollywood Calif 43-50	80 Shore Rd Port Washington NY 68
Miller-Trojan Co	Photovolt Corp 95 Madison Ave New York 16 NY 74	Servonic Instruments Inc 1145 S Fair Oaks Ave Pasadena 2 Calif 38
3 North Ridge Ave Troy Ohio 39-56 Milwaukee Gas Specialty Co	Polyphase Instrument Co	Servonics Inc
730 N Jackson St Milwaukee 1 Wisc 69	E 4 St Bridgeport Pa 61 Potter Instrument Co	822 N Henry St Alexandria Va 41-46-47-53 Servo-Recording Instruments Inc
MinAtron Corp Belle Mead 9 NJ 36	115 Cuttermill Rd	1815 W Van Buren St Phoenix Ariz 63
Minn-Honeywell Regulator Co	Great Neck NY 70-72-73-74-75	Servo-Tek Products Co 1086 Goffle Rd Hawthorne NJ 36-41-46-51-58
Ordnance Div Hopkins Minn 41-55-58	Powers Regulator Co 3400 Oakton St Skokie III 50-57-69	Shepard Labs Inc
Minn-Honeywell Regulator Co Aero Div	Power Transformer Co	480 Morris Ave Summit NJ 68
1433 Stinson Blvd Minneapolis Minn 38-50-60-64	91 Edison Pl Newark 5 NJ 61-62 Process & Instruments	Simplex Time Recorder Co 24 S Lincoln St Gardner Mass 73
Minn-Honeywell Regulator Co	15 Stone Ave Brooklyn 33 NY 50-55	Skiatron Electronics & TV Corp 180 Varick St
2753 4 Ave S Minneapolis 8 Minn 38-43-50-56-69	Production Instrument Co 710 W Jackson Blvd Chicago 6 Ill 63	New York 14 NY 41-42-49-55-63
	•	

4633 W 16 St Chicago 50 Ill 58-68	1200 S Marengo Ave Pasadena Calif 49-67-68	Crystals, tourmaline 14 Crystals, transducer 15
Solar Aircraft Co 2200 Pacific Hwy San Diego 12 Calif 38	United Transformer Corp 150 Varick St New York 13 NY 67-68	,,
Solartron Electronic Group Ltd	Universal Atomics Corp	CRYSTAL ACCESSORIES
Queens Rd Thames Ditton Surrey England 41	50 Bond St Westbury LI NY 58 Universal X-Ray Products Inc	Crystal blanks 16
Sorensen & Co	1140 N Western Ave Chicago 22 Ill 77	Crystal cartridges 17
Richards Ave Norwalk Conn 67-68 Sparton Control Systems Div	U S Controls Inc 161 Grand St New York 13 NY 52-56	Crystal electrodes 18
Sparks-Withington Co	U S Dynamics Corp	Crystal filters
2301 E Michigan Ave Jackson Mich 38-49 Specialty Eng'g & Electronics Co	1250 Columbus Ave Boston 20 Mass 67-68 U S Time Corp	Crystal heaters
79 Clifton Pl Brooklyn 38 NY 68	Waterbury Conn 64	Crystal mounts
Spencer Mfg Co 3253 N Cicero Ave Chicago 41 Ill 63	Vacuum-Electronic Eng'g Co 86 Denton Ave New Hyde Park LI NY 56	Crystal sockets
Sperry Gyroscope Co Div Sperry Rand Corp	Vacuum Specialties Co	Holders 24
Great Neck NY Sperry Products Inc	77 Prospect St Somerville Mass 56 Vacuum Tube Products Co	Pickups, quartz crystal 25
Shelter Rock Rd Danbury Conn 36-55	506 S Cleveland St	Probes 26
Standard Electric Time Co 89 Logan St Springfield 2 Mass 70-72-73	Oceanside Calif 52-56-71 Valverde Labs	CORES
Standard Electronics Div Radio Eng'g Labs	252 Lafayette St New York 12 NY 50	Cores, c-type 27
30 & Borden Sts Long Island City NY 68 Stevens Mfg Co	Vapor Heating Corp 80 E Jackson Blvd Chicago 4 Ill 38-50	Cores, ceramic
P O Box 1007 Annex Mansfield Chio 50-76	Vapor Recovery Systems Co	Cores, cut
Stewart Instrument Co	2820 N Alameda St Compton Calif 49 Varo Mfg Co	Cores, e-type
6507 Grand River Detroit 8 Mich 37-61 Sticht Co Herman H	2201 Walnut St Garland Texas 46-68 Vectrol Eng'g Inc	Cores, ferrite
27 Park Pl New York 7 NY 73	P O Box 1089	Cores, laminated
Stoelting Co C H 424 N Homan Ave Chicago 24 Ill 71-72-73	Stamford Conn 36-37-41-46-49-50-51-52-58-61 Veeder Root Inc	Cores, powered 34
Strandberg Eng'g Labs Inc	70 Sargeant St Hartford 2 Conn 63	Cores, slug tuning 35
416 W Market St Greensboro N Car 63 Stratford Corp	Vemaline Products Co P O Box 222 Hawthorne NJ 71	Cores, tape wound 36
44 W 28 St New York 1 NY 41-42	Victory Eng'g Corp	Cores, toroidal
Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd	117 Springfield Rd Union NJ 50 Vocaline Co of America	Cores, u-type
Rochester 3 NY 36-41-54	Old Saybrook Conn 73-75	Ferrites 40
Stromberg Time Corp 135 S Main St Thomaston Conn 52	WacLine Inc 35 S St Clair St 41-46-53-	Admittance Namco Corp Marine
Superior Electric Co	Dayton 2 Ohio 58-63-68 Waldorf Instrument Co Div	St Farmingdale LI NY 20
Systron Corp	F C Huyck & Sons Park Ave	Aeronautical Electronics Inc P O Box 6527 Raleigh NC 3-5-5
2055 Concord Blvd Concord Calif 46-50-63-70-71-73-75	Huntington Station NY 49-50-51-52 Walkirt Co	Aerovox Corp Crowley Div
Taller & Cooper	141 W Hazel St	W Orange NJ 34-35-37-38-46
75 Front St Brooklyn 1 NY 39-43-49-54-57-60-63	Inglewood 3 Calif 52-63-70-71-72-73-74-75 Wallson Associates Ltd	Aircom Inc 1209 E Grand St Elizabeth NJ 21
Teca Corp	963 Frelinghuysen Ave Newark 12 NJ 36-41 Waltham Watch Co	Airtron Inc
Telechrome Mfg Corp	221 Crescent St	1101 W Elizabeth Ave Linden NJ 40 Alden Products Co
28 Ranick Dr Amityville LI NY 58-70 Telectro Industries Corp	Waltham 54 Mass 52-64-70-71-72-73-75 Ward Leonard Electric Co	123A N Main St Brockton Mass 31-37
35-18 37 St Long Island City 1 NY 67-68	Mt Vernon NY 37-46-57	Allen-Bradley Co 136 W Greenfield Ave
Teletronic Labs Inc 1835 W Rosecrans Ave	Warner Electric Brake & Clutch Co Industrial Div Beloit Wis 36-41-51-52-53	Milwaukee 4 Wis 30-31-37-38-40 Allied Industries Inc
Gardena Calif 59_79 72	Warren Corp	2500 Woodland Ave Louisville 10 Ky 21-23
Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ 68	2901 Brighton Rd Pittsburgh 12 Pa 77 Warren Mfg Co	American Electronic Laboratories 121 N 7 St Philadelphia 6 Pa 23
1 empo instrument Co	Newtown Rd Littletown Mass 41-58-67-68 Weltronic Co	American Lava Corp Subs Minn Mining &
Tensitron Inc	19500 W 8 Mile Rd	Mfg Cherokee Blvd & Mfrs Rd Chattanooga 5 Tenn 28
Pin Hill Harvard Mass 52-53 Texas Instrument Inc 47-49-	Detroit 19 Mich 52-58-61-67-68-75 West Coast Research Corp	Amersil Co
6000 Lemmon Ave Dallas 9 Tevas 70-72-73	2371½ Westwood Blvd 36-38-41-47-	685 Ramsey Ave Hillside NJ Amplex Div Chrysler Corp
Phoenix NY	Los Angeles 64 Calif 49-50-51-52 Westinghouse Electric Corp	P O Box 2718 Detroit 31 Mich 34 Arenberg Ultrasonic Laboratory
Inompson Clock Co H C	P O Box 868 Pittsburgh 30 Pa 64 West Instrument Corp 64	94 Green St Jamaica Plain 30 Mass 14-25
38 Federal St Bristol Conn 70-71-73-75 Thompson Products Inc Electronics Div	4363 W Montrose Ave Chicago 41 III 50	Arnold Eng'g Co P O Box G
2196 Clarkwood Rd Cleveland 3 Ohio 41-46 Therm-O-Disc Inc	Weston Electrical Instrument Corp Sub Daystrom Inc 614 Frelinghuysen Ave	Marengo III 27-29-30-32-33-34-35-36-37-38
S Main St Rd Mansfield Ohio 50	Newark 12 NJ 38-50-56	Astatic Corp 250 Harbor St Conneaut Ohio 17
1 nermo Electric Co 109 5 St Saddle Brook N.I	Wilcolator Co 1001 Newark Ave Elizabeth NJ 50	Audiogersh Corp 514 Broadway New York 12 NY 17
Tipptronic Inc	Wilson & Co G C	Baird-Atomic Inc
4 & Franklin Sts Tipp City Ohio 37-38-46-47-50-52-53-56	1915 8 Ave Huntington 3 W Va 52-71-73-75 Winder Aircraft Corp of Florida	33 University Rd Cambridge 38 Mass 19 Barker Sales Co
Toledo Scale Co	P O Box 2397 Drane Field Lakeland Fla 38 Winterburn Mfg Co	996 Edgewater Ave Ridgefield NJ 27
1027 Telegraph Rd Toledo Ohio 60 Topp Industries Inc	11 Whittemore St Putnam Conn 41-46	Bassett Inc Rex 1314 N E 17 Ct
5255 W 102 St	Worner Electronic Devices Rankin Ill 40-43-44	Ft Lauderdale Fla 3-5-8-9-19
Tork Time Controls Inc	Yellow Springs Instrument Co	Beckman/Berkeley Div Beckman Instruments Inc 2200 Wright Ave
1 Grove St Mt Vernon NY 73 Transval Eng'g Corp	P O Box 106 Yellow Springs Ohio 50 Zenith Electric Co	Richmond 3 Calif 40
10401 W Jefferson Blyd	152 W Walton St Chicago 10 Ill 52-72-73-75	Belmont Smelting & Refining 330 Belmont Ave Brooklyn 7 NY 12
Culver City Calif Tricraft Products Corp	03 ABVAT414 444	Berkeley Crystal Co 1740 University Ave Berkeley 3 Calif 11-15
1535 N Ashland Ave Chicago 22 III 71	23—CRYSTALS, ACCESSO-	Bios Labs Inc
831 N Lake St Burbank Calif 77	RIES & CORES	17 W 60 St New York 23 NY 4-7-8-9-10-11-12-13-14
Trott Electronics Inc	Crystals, barium titinate 1	Birtcher Corp Industrial Div
412 Smith St Rochester 6 NY 42-52-58-63 Tuttle & Kift Inc	Crystals, color TV frequency	4371 Valley Blvd Los Angeles 32 Calif 21 Bliley Electric Co
1823 N Monitor Ave Chicago 39 III 50 Ulanet Co George	Crystals communication 2	Union Station Bldg
413 Market St Newark 5 NJ 50-76	Crystals, communication 3 Crystals, diode 4	Erie Pa 2-3-5-8-9-15-20-22 Bogart Mfg Corp
Union Switch & Signal Div Westinghouse Air Brake	Crystals, frequency control 5	315 Seigel St Brooklyn 6 NY 24 Bogue Electric Mfg Co
Braddock Ave Pittsburgh 18 Pa 42	Crystals, galena 6	Iowa Ave Paterson 3 NJ 4-8-12
Union Thermoelectric Corp 2001 Greenleaf St Evanston Ill 63	Crystals, germanium 7	Bram Chemical Co Metals & Minerals Div 820 65 Ave
United Aircraft Products Inc 1116 Bolander Ave Dayton 9 Ohio 50-69	Crystals, hermetically sealed 8 Crystals, quartz 9	Philadelphia 26 Pa 1-10-15-32-34 Branson Instruments Inc
United Control Corp	Crystals, rochelle salt 10	37 Brown House Rd Stamford Conn 9
1540 Union Bay Pl Seattle 5 Wash 41-50 United Electric Controls Co	Crystals, scintillation 11	Breen Labs 1520 Evergreen Rd Williamsport Pa 3-5-16-21
85 School St	Crystals, silicon	Browning Labs Inc
Watertown 72 Mass 33-50-56-67	SI VOIGIO, OVINTACTIC SOPPRICE IS	750 Main St. Winchester Mass 26

Brush Electronics Co
3400 Perkins Ave
Cleveland 14 Ohio
Bulova Watch Co Electronics Div
40-01 61 St
Woodside 77 NY 3-5-8-9-16-19-20-22-23
Burnell & Co
45 Warburton Ave Yonkers NY 19
Burnett Radio Lab W W L
4814 Idano St
San Diego 16 Calif 3-5-9-21-22-24
Burroughs Corp Electronic Instruments
Div 1209 Vine St
Philadelphia 7 Pa 32
Carstedt Research Inc
2501 E 68 St
Long Beach 5 Calif 27-29-32-33-36-37-38
Centryl Coil Corp
1534 N Clybourn Ave Chicago 10 Ill 33
Chesapeake Instrument Corp
Shadyside Md
Cinch Mfg Corp Brush Electronics Co Shadyside Md
Cinch Mfg Corp
1026 S Homan Ave Chicago 24 III 23-24
Cinema-Television Ltd
Worsley Bridge Rd Lower Sydenham
London S E 26 England 22
City Chemical Corp
132 W 22 St New York 11 NY 7-11-12-39
Clark Crystal Co
2 Farm Rd Marlboro Mass 3-5-8-9-14-16-22
Clowes Ceramic Corp 2 Farm Rd Marlboro Mass 3-5-8-9-14-16-22
Clowes Ceramic Corp 3711 Calhoun Ave Chattanooga 7 Tenn 28
Coil Winders Inc New York Ave Westbury LI NY 19
Collins Radio Co 855 35 St N E Cedar Rapids Iowa 31
Columbian Carbon Co Mapico Color Unit 380 Madison Ave New York 17 NY 39
Communication Accessories Co 110 St & 71 Hwy Hickman Mills Mo 40
Cryco Inc The St & 71 Hwy Hickman Mills Mo
Cryco Inc
1138 Mission St S Pasadena Calif
1138 Mission St S Pasadena Calif
Custom Components Inc
P O Box 248 Caldwell NJ 30-32-34-35-37
Dallons Labs
5066 Santa Monica Blvd
Los Angeles 29 Calif
Dana Inc P A
233 Broadway New York 7 NY
Dayton Aviation Radio & Equipment Corp
R R 3 Troy Ohio
Defiance Eng'g & Microwave Corp
Beverly Airport Beverly Mass
21
Delta Chemical Works
23 W 60 St
New York 23 NY
4-7-8-9-10-11-12-13-14
DeMornay-Bonardi Corp New York 23 NY 4-7-8-9-10-11-11

DeMornay-Bonardi Corp
780 S Arroyo Pkwy Pasadena Calif
Diamond Antenna & Microwave Corp
7 North Ave Wakefield Mass
Diamond Drill Carbon Co
244 Madison Ave New York 16 NY
Diamonite Products Mfg Co
217 4 St N E Canton 2 Ohio
Douglas Microwave Co
252 E 3 St Mt Vernon NY
Downing Crystal Co
191 Shaffer Ave 19-21-24 9 21-28 Downing Crystal Co

191 Shaffer Ave
Westminster Md 2-3-5-8-9-16
Du-Co Ceramics Co
Box 278 Saxonburg Pa
Dudek & Co R C
407 N Maple Dr Beverly Hills Calif
Du Mont Labs Inc Allen B
760 Bloomfield Ave Clifton NJ 2-3-5-8-9-16-19-22 28 Duotone Co Locust St Keyport NJ 17 Locust St Keyport NJ
Dyna-Empire Inc
1075 Stewart Ave Garden City LI NY
Eagle-Picher Co
American Bldg Parkway & Walnut
Cincinnati 2 Ohio
Edison Electronic Co
1902 N 3 St Temple Texas
3-5-8 Edo Corp 13-10 111 St College Point 56 LI NY 1-15 Elco Mfg Co 137 Herrick Rd New Hyde Prk LI NY 21 Electrical Specialty Co 158 11 St San Francisco 3 Calif 12 158 11 St San Francisco 3 Calif
Electronic Instrument Co
84 Withers St Brooklyn 11 NY
Electro Mechanical Co Div Union
Carbide & Carbon 30 E 42 St
New York 17 NY
Electro-Voice Inc
Cecil & Carrol Sts Buchanan Mich
Elgin National Watch Co Electronics Div
2435 N Naomi St Burbank Calif
Elm Labs 26 12 Elm Labs

10 Washington Ave
Hastings-on-Hudson NY
Endeco Eng'g Development Co of
Los Angeles 922 E Anaheim St
Wilmington Calif 20-21-22-24 3 Endevco Corp 161 E California St Pasadena Calif 15 Enflo Corp
Rte 38 at Airport Circle
Pennsauken 11 NJ 21-23-24

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Erie Resistor Corp Erie Resistor Corp
644 W 12 St Erie 6 Pa
Erwood Inc
1770 W Berteau Ave Chicago 13 Ill
Fair-Rite Products Corp
Commercial Row Wallkill NY 1-15 22-26 Commercial Row Walkill NY
Federal Telephone & Radio Co Div IT&T
100 Kingsland Rd Clifton NJ
Ferroxcube Corp of America
35 E Bridge St Saugerties NY
Flight Research Inc
P O Box 1-F Richmond 1 Va
Fluorocarbon Products Inc Div U S
Gasket Co 602 N 10 St
Camden 1 NJ
Foote Mineral Co
18 W Chelten Ave Philadelphia 44 Pa
F-R Machine Works Inc Electronic &
X-Ray Div 26-12 Borough Pl
Woodside 77 NY
Franklin Fibre-Lamitex Corp 34-38 12 23 .21 Woodside 17 N1
Franklin Fibre-Lamitex Corp
Wilmington Dela
Frenchtown Porcelain Co
Muirhead Ave Trenton 9 NJ 33 28 
 Muirhead Ave Trenton 9 NJ
 28

 Fretco Inc
 406 N Craig St Pittsburgh 13 Pa
 10-11

 Gates Radio Co
 123 Hampshire St Quincy III
 22

 General Cement Mfg Co Div Textron Inc
 400 S Wyman St Rockford III
 26

 General Ceramics Corp
 Crows Mill Rd
 Keasbey NJ
 27-28-29-30-31-32-35-37-38-40

 General Chemical Div Allied Chemical Dye Corp
 27-28-29-30-31-32-35-37-38-40
 37-38-35-37-38-40
 Dye Corp 40 Rector St New York 6 NY 40 Rector St New York 6 NY 39

General Crystal Co
P O Box 9 1-2-3-5-6-8-9-10-15
Burlington Wis
General Electric Co Specialty Electronic
Components Dept W Genesee St
Auburn NY 1-27-30-31-32-37-38-40

General Electric Co Ltd of England
80 Shore Rd Port Washington NY 4-7-12

General Instrument Corp Automatic Mfg Div
65 Gouveurner St Newark 4 NJ 4-12

General RF Fittings Inc
702 Beacon St Boston 15 Mass 19-21-24-26

General Transistor Corp 702 Beacon St Boston 15 Mass 19-21-24-26
General Transistor Corp 91-27 138 Pl Jamaica 35 NY 4-7-12
G-I. Electronics Co 2921 Admiral Wilson Blvd Camden 5 NJ 32-36-37
Gulton Industries Inc 212 Durham Ave Metuchen NJ 1-15
Harshaw Chemical Co 1945 E 97 St Cleveland 6 Ohio 8-11-16-39
Hermetic Seal Corp 29 S 6 St Newark 7 NJ 24
Hermetite Corp Permette Corp

29 S 6 St Newark 7 NJ

Hermetite Corp

702 Beacon St Boston 15 Mass

R-24

Hewlett-Packard Co

275 Pare Mill Rd Palo Alto Calif

Hickok Electrical Instrument Co

10514 Dupont Ave Cleveland 9 Ohio

26

Hill Electronic Eng'g & Mfg Co

New Kingstown Pa 2-3-5-8-9-15-16-19-20-22

Hoffman Co P R

321 Cherry St Carlisle Pa 9-15-16-18-21

Hoffman Semiconductor Div Hoffman

Electronics Corp 930 Pitner Ave

Evanston III

Hooper Chemical Corp

P O Box 313 Rutherford NJ

Howard Crystal Holders Inc

2600 Grand Ave Kansas City 8 Mo 18-22-23-24

Hudson American Div

25 W 43 St New York 36 NY

9

Hunt Corp Hunt Corp 453 Lincoln St Carlisle Pa 3 Hupp Electronics Co Div Hupp Corp 3-5-8-9-22 743 Circle Ave Forest Park Ill 2-3-5-9-16-18-19-21-22-24 Hupp Electronics Co Div Hupp Corp 265 E Pomfret St Carlisle Pa Hycon Mfg Co 707 S Raymond Ave Pasadena Calif Indiana Steel Products Co Valparaiso Ind 27-32-36-38 Intelex Systems Inc
22 Thames St
New York 6 NY 28-31-32-33-34-36-37-38-40
International Crystal Mfg Co 18 N Lee Ave Oklahoma City 1 Okla 3-5-8-9-22 International Telemeter Corp 2000 Stoner Ave Los Angeles 25 Calif Isolantite Mfg Corp Warren Ave Stirling NJ Isomet Corp 118 Union St Palisades Park NJ 11-16 Javex P O Box 646 Redlands Calif Johnson Co E F Waseca Minn J-V-M Eng'g Co 4633 S Lawndale Ave Lyons Ill 26 Kahle Eng'g Co 1307 7 St N Bergen NJ 22

with the set of the set of

Keystone Electronics Co
65 7 Ave Newark 4 NJ 2-5-8-9-16-21-22
King Lab Inc
2645 S 2 St W Salt Lake City 15 Utah 1-15
Kirchberger & Co M
83 W Forest Ave Englewood NJ 28
Kistler Instrument Corp
15 Webster St N Tonawanda NY 15-25
Knights Co James
Church & Wells Sts
Sandwich III 2-3-5-8-9-15-16-19-20-22
Krystinel Corp Sandwich III

Krystinel Corp

P O Box 6

Port Chester NY 2,7-28-30-31-32-34-35-37

Lapp Insulator Co Radio Specialties Div
24 Summer St LeRoy NY 28

Lavoie Labs Inc

Matawan-Freehold Rd Morganville NJ 22

Lehigh Valley Electronics Eng'g & Mfg Co
215 S 3 St Allentown Pa 22

Leonard Electric Products Co
67 34 St Brooklyn 32 NY 39-40

Lewis Co E B
11 Bragg St E Hartford 8 Conn 3-5-8-9-15-19

Lieco Inc 11 Bragg St E Hartford 8 Conn 3-0-3-3-1 Lieco Inc 3610 Oceanside Rd Oceanside LI NY Linde Air Products Co Div Union Carbide & Carbon Co 30 E 42 St New York 17 NY 13 New York It NI
Louthan Mfg Co
Harvey Ave E Liverpool Ohio
McCoy Electronics Co
Chestnut & Watts Sts
Mt Holly Springs Pa 28 2-3-5-8-9-16 Mt Holly Springs Pa 19-20-2

Mackay Inc A D
198 Broadway
New York 38 NY 6-7-9-11-1

Magnaflux Corp
7300 W Lawrence Ave Chicago 31 Ill

Magnetic Core Corp
John & Lawrence Sts
Newburgh NY 32-34-1 6-7-9-11-12-18 John & Lawrence Sts
Newburgh NY
Magnetic Metals Co
Hayes Ave & 21 St Camden 1 NJ
Magnetics Inc
Box 391 Butler Pa

3 32-34-35-37 Mallinckrodt Chemical Works 2 & Mallinckrodt Sts St Louis 7 Mo 10-39 2 & Mallinckrodt Sts St Louis 7 Mo 10-39 Manson Laboratories Inc 207 Greenwich Ave Stamford Conn 5-22 Methode Mfg Corp 7447 W Wilson Ave Harwood Heights III 24 Metpro Inc R I 230 Toronto Ave Providence 5 RI 17 Micarta Fabricators Inc 5324 N Ravenswood Ave Chicago 40 III 21 Micardia Page 10-39 Micardia Pag Microlab Okner Pkwy Livingston NJ Microwave Associates Inc Burlington Mass Microwave Development Labs 92 Broad St Babson Park 57 Mass 12-40 | Microwave Development Labs | 92 Broad St Babson Park 57 Mass | 21 Midland Mfg Co | 3155 Fiberglas Rd | Kansas City 15 Kan | 2-5-16-19-20-22 Millen Mfg Co James | 150 Exchange St Malden 48 Mass | 23 Molded Fiber Glass Co | 4801 Benefit Ave Ashtabula Ohio | 33 Moloney Electric Co | 5390 Bircher Blvd | St Louis 20 Mo | 27-29-30-38 Monitor Products Co | 815 Fremont Ave | South Pasadena Calif | 3-9-15-22 Mosley Electronics Inc | 8622 St Charles Rock Rd St Louis 14 Mo 23 National Moldite Co | 1410 Chestnut Ave | Hillside 5 NJ | 31-32-34-35-37-40 National Radiac Inc | 475 Washington St Newark 2 NJ | 11-16 Nebel Laboratory R E | 1634 E 12 St Brooklyn 29 NY | 3-16-18-21 Nichols Products Co | 325 W Main St Moorestown NJ | 26 Northern Eng'g Lubs | 372 Willmot Ave 21 Northern Eng'g Lubs 372 Wilmot Ave Burlington Wis 3-5-8-9-15-20-22 Norton Co
1 New Bond St. Worcester 6 Mass
Omega Labs Inc
Haverbill St Rowley Mass
Ortho Filter Corp
196 Albion Ave Paterson 2 NJ
Recific Semiconductors Inc. 21 19 Pacific Semiconductors Inc 10451 W Jefferson Blvd Culver City Calif Pacific Transducer Corp
11836 W Pico Blvd Los Angeles 64 Calif 25
Pan-Electronics Corp
Ruth St Griffin Ga
2-3-5-8-9-16-22
Permonite Mfg Co
444 Lake Shore Dr Chicago 11 Ill
24 Philmore Mfg Co
113 University Pl New York 3 NY Pix Mfg Co 21-24 75 Hudson St Newark 3 NJ Polymer Corp 2120 Fairmont Ave 32-34-35-36-37-40 Reading Pa

Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY 21	Texas Instruments Inc	Barker & Williamson Inc Canal & Beaver Sts Bristol Pa 12
Precise Development Corp	6000 Lemmon Ave Dallas 9 Tex 12 Thermo Materials Inc	Beckman Berkeley Div Beckman
2 Neil Ct Oceanside NY 26	4040 Campbell Ave Menlo Park Calif 40	Instruments Inc 2200 Wright Ave
Precision Crystal Lab	Thomas & Skinner Inc	Richmond 3 Calif
2223 Warwick Ave	1120 E 28 St	Beckman Instruments Inc Process
Santa Monica Calif 2-3-5-8-9-15-16-19-22 Premier Instrument Corp	Indianapolis 7 Ind 27-29-33-36-37 Thorens Co	Instruments Div 2500 Fullerton Rd Fullerton Calif 5-7
52 W Houston St New York 12 NY 21-24	Thorens Ave New Hyde Park NY 17	Bendix Aviation Corp
Premier Research Labs Inc	Tracerlab Ino	1104 Fisher Bldg Detroit 2 Mich 14
79 7 Ave	1601 Trapelo Rd Waltham 54 Mass 11	Bendix Aviation Corp Cincinnati Div
New York 11 NY 2-3-5-8-14-15-16-20-21-22	Trad Electronics Corp	3130 Wasson Rd Cincinnati 8 Ohio 14
Press Wireless Labs Inc	1001 1 Ave Asbury Park NJ 21	Berger Communications 109-01 72 Rd Forest Hills LI NY 16
25 Prospect Pl W Newton 65 Mass 26 Pye Canada Ltd	Transitron Electronic Corp 168 Albion St Wakefield Mass 4	Berkeley Crystal Co
82 Northline Rd	Ultradyne Eng'g Labs	1740 University Ave
Toronto 16 Ontario Canada 3-8-9-16	P O Box 3308 Albuquerque New Mex 30-33	Berkeley 3 Calif 1-14-16
Pye Telecommunications Ltd	Uniwave Inc	Berman Labs
Newmarket Rd 1-2-3-4-5-7-9-20 Cambridge England 21-22-23-24	2 Marine St Farmingdale NY 21-24	112-13 Rockaway Blvd Ozone Park 20 NY 10 B J Electronics Borg-Warner Corp
Cambridge England 21-22-23-24 Pyroferric Co	U S Dynamics Corp 1250 Columbus Ave Boston 20 Mass 4-7-12	3300 Newport Ave Santa Ana Calif 14-18
Pyroferric Bldg E 216 St at Bronx Blvd	U S Stoneware Co Alite Div	Black Light Corp of America
New York 67 NY 32-34-35-37	Orville Ohio 28	5114 Walnut Grove Ave San Gabriel Calif 11
Quality Components Inc	Valpey Crystal Corp	Brilmayer Laboratories E W
St Marys Pa 34-35 Radar Design Corp	1244 Highland St	86 Fulton St New York 38 NY 10 Boonton Electronics Corp
210 5 Ave New York 16 NY 21	Holliston Mass 3-5-9-14-15-16-19-22 Vari-L Co	738 Speedwell Ave
Radiation Counter Labs Inc	432 Fairfield Ave Stamford Conn 34	Morris Plains NJ 12-14-20
5121 W Grove St Skokie Ill 11-31	WacLine Inc	Brooke Eng'g Co
Radio City Products Co	35 S St Clair St	4517 Wayne Ave Philadelphia 44 Pa 17
Centre & Glendale Sts Easton Pa 26 Radio Cores Inc	Dayton 2 Ohio 26	Browning Labs Inc 750 Main St Winchester Mass 2-18
9540 Tulley Ave Oak Lawn Ill 34-35-37	Waldom Electronics Inc 4625 W 53 St Chicago 32 Ill 24	Bruno-New York Industries Corp
Radio Corp of America	Waveguide Inc	460 W 34 St New York 1 NY 12-20
Camden 2 NJ 31-37	14837 Oxnard St Van Nuys Calif 24	Brush Electronics Co Texas Div
Raytheon Mfg Co Receiving & Cathode	Webster Electric Co	3732 Westheimer Rd Houston 6 Texas 19
Ray Tube Operations 55 Chapel St Newton 58 Mass 4	1900 Clark St Racine Wis 17	Calif Technical Industries 1421 Old County Rd Belmont 10 Calif 18
Raytheon Mfg Co Ceramic Sales	Westinghouse Electric Corp P O Box 868	CG Electronics Corp
Foundry Ave Waltham Mass 40	Pittsburgh 30 Pa 27-29-30-32-36-37-38	305 Dallas St N E Albuquerque New Mex 6
Raytheon Mfg Co Microwave & Power	Williamson Development Co	Cinema-Television Ltd
Tube Operations	317 Main St W Concord Mass 22	Worsley Bridge Rd Lower Sydenham
Foundry Ave Waltham Mass 40 Reeves-Hoffman Div Standard	Wisconsin Porcelain Co 121 Lincoln St Sun Prairie Wis 28	London S E 26 England 10-13-14 Coilcraft Inc
Electronics Corp 145 Cherry St	Workman TV Inc	Cary Ill 9
Carlisle Pa 2-3-5-8-9-15-16-18-19-22	309 Queen Anne Rd Teaneck NJ 31-34	Consolidated Electrodynamics Corp
Remler Co	Wright Electronics Inc	300 N Sierra Madre Villa
2101 Bryant St San Francisco Calif 22 Research Development Mfg Inc	1519 McGee St	Pasadena Calif 7-19 Consolidated Electrodynamics Corp
429 E Collom St Philadelphia 41 Pa 31	Kansas City 5 Mo 2-3-5-8-9-16-19-20-22 Yale & Towne Powdered Metal Prods Div	Rochester Div 1775 Mt Read Blvd
Rixon Electronics Inc	9335 W Belmont Ave	Rochester 4 NY 7
2414 Reedie Dr Silver Spring Md 20-22	Franklin Park III 27-28-31-32-34-38-49	Control Products Inc
Romar Plastics Inc 1311 E Main St St Charles Ill 20	24 DETECTORS	306 Sussex St Harrison NJ 2 Crescent Eng'g Research Co
Rubbercraft Corp of Calif	24—DETECTORS	5440 N Peck Rd El Monte Calif 12-19
1800 W 220 St Torrance Calif 12	Dotostone enucial	Deltron Inc
Sage Labs Inc	Detectors, crystal 1	2905 N Leithgow St
30 Guinan St Waltham 54 Mass 19-21-24 Scala Radio Co	Detectors, fire	Philadelphia 33 Pa 12 DeMornay-Bonardi Corp
2814 19 St San Francisco 10 Calif 26	Detectors, flaw 3	780 S Arroyo Pkwy Pasadena Calif 18
Scientific Radio Products Inc	Detectors, galena 4	Devco Eng'g Inc
215 S 11 St	Detectors, gas 5	P O Box 387 Caldwell NJ 5
Omaha Nebr 2-3-5-8-9-16-19-20-22 Scientific Radio Service	Detectors, impedance 6	Devol Research Co Brookside Drive Greenwich Conn 9
4301 Sheridan St University Park	Detectors, leak	Diamond Antenna & Microwave Corp
Hyattsville Md 3-5	Detectors, lie 8	7 North Ave Wakefield Mass 1-18
Sealectro Corp	Detectors, magnetic 9	Diatron Co
610 Fayette Ave Mamaroneck NY 23 Semimetals Inc	Detectors, metal 10	3327 Dixie Dr Houston 21 Texas 5 Dice Co J W
130-11 90 Ave Richmond Hill 18 NY 7-12	Detectors, mineral 11	16 Highwood Ave Englewood NJ 3-10
Solar Mfg Corp	Detectors, null 12	Doty Acoustical Electronic Labs
4553 Seville Ave Los Angeles 58 Calif 1-15	Detectors, pipe & cable 13	431 Broome St New York 13 NY 13
Sperry Gyroscope Co Div Sperry Rand Corp	Detectors, radiation 14	Douglas Microwave Co
Great Neck NY Sprague Electric Co	Detectors, resistance 15	252 E 3 St Mt Vernon NY 1 Dudek & Co R C
Marshall St North Adams Mass 36-37	Detectors, scintillation 16	407 N Maple Dr Beverly Hills Calif 14-16
Stackpole Carbon Co	Detectors, smoke 17	Dyna-Empire Inc
St Marys Pa 31-32-34-35-37-10	Detectors, standing wave 18	1075 Stewart Ave Garden City LI NY 9
Standard Crystal Co 1714 Locust St	Detectors, vibration 19	Eagle Electric Mfg Co 23-10 Bridge Plaza S
Kansas City Mo 2-5-8-9-15-16-18-19-21	Detectors, voltage 20	Long Island City 1 NY 20
Standard Electronics Div Radio Eng'g Labs	Detectors, water leak 21	Eastman Kodak Co
30 & Borden Sts Long Island City NY 26 Steward Mfg Co D M		343 State St Rochester 4 NY 14
Chattanooga Tenn 27-28-29-30-31-35-37-38-40	Admittance Namco Corp	Eberline Instrument Div Reynolds Electrical 805 Early St
Stone Paper Tube Co	Marine St Farmingdale LI NY 1	Santa Fe N Mexico 14
900 Franklin St N E Washington 17 DC 33	Advanced Electronics Inc 94 Silas Deane Hwy Rocky Hill 9 Conn 7-19	Edison Industries Thomas A
Stupakoff Div Carborundum Co	Airmec Ltd	Instrument Div 93 Lakeside Ave
Latrobe Pa	High Wycombe	W Orange NJ 2-15
Superex Electronics Corp 4 Radford Pl Yonkers NY 29-32-35-40	Buckinghamshire England 12-14	Eisler Eng'g Co 750 S 13 St Newark 3 NJ
4 Radford Pl Yonkers NY 29-32-35-40 Superior Steatite & Ceramic Corp	Amerac Inc 116 Topsfield Rd Wenham Mass 1	Eleo Mfg Co
91 W Forest Ave Englewood NJ 28	116 Topsfield Rd Wenham Mass 1 American District Telegraph Co	137 Herrick Rd
Sylvania Electric Products Inc	155 6 Ave New York 13 NY 2-17	New Hyde Park LI NY
1740 Broadway	American Electronics Inc	Electric Regulator Corp Pearl St Norwalk Conn 20
New York 19 NY 4-7-12-24-40 Technicraft Labs Inc	655 W Washington Blvd	Electro-Medical Lab Inc
Thomaston-Waterbury Rd	Los Angeles 15 Calif 7	S Woodstock 10 Vt 8
Thomaston Conn 21-40	Anton Electronic Labs 1226 Flushing Ave	Electro Products Labs Inc
Tedford Crystal Labs	Brooklyn 6 NY 5-7-16-17-20	4501 N Ravenswood Ave Chicago 40 Ill 10-19
4126 Colerain Ave	Arnoux Corp	Electro-Technical Labs Div
Cincinnati 23 Ohio 2-3-5-8-9-15-16-19 Tele-Coil Co	11924 W Washington Blvd	Møndrel Industries
2783 Saunders St Camden 5 NJ 20	Los Angeles 66 Calif 2 Assembly Products Inc	5184 Glenmont Houston Texas 19
Telemeter Magnetics Inc	Wilson Mills Rd Chesterland 1 Ohio 12	Electronic Control Corp 1573 E Forest Ave Detroit 7 Mich 9-17
2245 Pontius Ave	Associated Research Inc	1573 E Forest Ave Detroit 7 Mich 9-17 Electronics Corp of America
Los Angeles 64 Calif 28-31-34 Teletronics Lab Inc	3758 W Belmont Ave Chicago 18 Ill 8	1 Memorial Dr Cambridge 42 Mass 2-17
54 Kinkel St Westbury NY 26	Atomic Labs Inc 3086 Claremont Ave Berkeley 5 Calif 14	Electron-Radar Products
	3086 Claremont Ave Berkeley 5 Calif 14	4806 W Chicago Ave Chicago 51 Ill 17
Temperature Eng'g Corp		
U S Hwy 130 Riverton NJ 22	Baird-Atomic Inc 33 University Rd Cambridge 38 Mass 1-14-16	El-Tronics Inc Penn Ave Mayfield Pa 14-16

Ercona Corp	Magnaflux Corp	Sage Labs Inc 30 Guinan St Waltham 54 Mass 1-18
551 5 Ave New York 17 NY 5 Ess Instrument Co	7300 W Lawrence Ave Chicago 31 Ill 3-7-9-10-13	Seismograph Service Corp 6200 E 41 St Tulsa 1 Okla 19
96 S Washington Ave Bergenfield NJ 17	Massa Laboratories Inc 5 Fottler Rd Hingham Mass 19	Scaico Controls Inc
Federal Telephone & Radio Co	MB Mfg Co Div Textron Inc 1060 State St New Haven 11 Conn 19	Sensitive Research Instrument Corp
Div IT&T 100 Kingsland Rd Clifton NJ 12-17	Measurement Eng'g Ltd 232 John St Arnprior Ontario Can 14-16	Servo Corp of America
Fenwal Inc Pleasant St Ashland Mass 2-17	Menlo Research Lab	2020 Jericho Turnpike New Hyde Park NY 2-14
Fielden Instrument Div	538 Phelan Ave San Jose Calif 14-16 Microtran Co	Servo-Recording Instruments Inc
Robertshaw-Fulton Controls Co 2920 N 4 St Philadelphia 33 Pa 19	145 E Mineola Ave Valley Stream NY 9-10-19	1815 W Van Buren St Phoenix Ariz 14-16 Sierra Electronic Corp
Fisher Research Lab 1961 University Ave	Microwave Associates Inc	3885 Bohannon Dr Menlo Park Calif Solertron Electronic Group Ltd
Palo Alto Calif 10-11-13-14-16-21 Forro Scientific Co	Burlington Mass 1 Minco Products Inc	Queens Rd Thames Ditton
833 Lincoln St Evanston Ill 14-16	740 Washington Ave Minneapolis 1 Minn 15	Sperry Gyroscope Co Div Sperry Rand Corp
F-R Machine Works Inc Electronic & X-Ray Div	Mine Safety Appliances Co	Great Neck NY Sperry Products Inc
26-12 Borough Pl Woodside 77 NY 1-18 Franklin Electronics Inc	201 N Braddock Ave Pittsburgh 8 Pa 5-7 Minneapolis-Honeywell Regulator Co	Shelter Rock Rd Danbury Conn 3 Standard Instruments
Box 113 Bridgeport Pa 16	Industrial Div Wayne & Windrim Aves	P O Box 11556 Dallas 18 Texas
Freed Transformer Co 1718-36 Weirfield St Brooklyn 27 NY 12	Philadelphia 44 Pa 12 Mt Sopris Instrument Corp	Stoelting Co C H 424 N Homan Ave Chicago 24 III 8
Fretco Inc 406 N Craig St Pittsburgh 13 Pa 16	1320 Pearl St Boulder Colo 16	Stratford Corp 44 W 28 St New York 1 NY
Gardiner Electronics Co 2545 E Indian School Rd	Muirhead Instruments Inc 677 5 Ave New York 22 NY 12	Sullivan Ltd H W
Phoenix Ariz 10-11-13-14-16	Narda Corp 160 Herricks Rd Mineola NY 18	Sylvania Electric Products Inc
Gates & Co Geo W Hempstead Tpke & Lucille Ave	National Radiac Inc	Tollar & Cooner
Franklin Square LI NY 3-11-21 General Bronze Corp	475 Washington St Newark 2 NJ 16 Network Mfg Corp	75 Front St Brooklyn 1 NY 5-17
711 Stewart Ave Garden City NY 18	213 W 5 St Bayonne NJ 20 Nevada Air Products Co	140 W Providencia Ave Burbank Calif 14-16
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY 7-17-19	PO Box 2472 Reno Nev 2-8-14-17 Newark Controls Co	Technicraft Labs Inc Thomaston-Waterbury Rd
General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wisc 14	15 Ward St Bloomfield NJ 17	Thomaston Conn Tele-Smoke Corp
General Radio Co	Nilsson Electrical Laboratory Inc 103 Lafayette St New York 13 NY 13	15 Ward St Bloomfield NJ
275 Massachusetts Ave Cambridge 39 Mass 1-12-18-19	NRD Instrument Co	Tal-Instrument Electronics Corp 728 Garden St Carlstadt NJ 19
General RF Fittings Inc 702 Beacon St Boston 15 Mass 1	Nuclear-Chicago Corp	Telonic Industries Inc 78 N 2 Ave Beech Grove Ind 1
General Scientific Equipment Co	223 W Erie St Chicago 10 III 14-16 Nuclear Corp of America	Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas 9-10
7516 Limekiln Pike Philadelphia 50 Pa 5-17	Empire State Bldg New York NY 16 Nuclear-Electronics Corp	Two soulch Inc
G&M Equipment Co 7315 Varna Ave N Hollywood Calif 2	2632 W Cumberland St	Trad Electronics Corp
Goldak Co 1544 W Glenoaks Blvd	Philadelphia 32 Pa 14-16 Nuclear Measurements Corp	1001 1 Ave Asbury Park NJ
Glendale 1 Calif 7-10-11-13-14-16-21	2460 N Arlington Ave Indianapolis 18 Ind 16 Nucleonic Corp of America	168 Albion St Wakeneid Mass .
Harworth Mfg Co 409 El Camino Real Menlo Park Calif 10	196 Degraw St Brooklyn 31 NY 14-16 OMCO	Turner Brass Works 821 Park Ave Sycamore Ill 7
Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif 1	U S 93 & Las Palomas St	Ultradyne Eng'g Labs P O Box 3308 Albuquerque New Mex 19
Hewson Co 443 Broad St Newark 2 NJ	Kingman Ariz 18-11-14 Omega Instrument Co	Ultra-Violet Products Inc 5114 Walnut Grove Ave
Hickok Electrical Instrument Co	103 E Altadena Dr Altadena Calif 19	San Gabriel Calif
10514 Dupont Ave Cleveland 8 Ohio 20 Hupp Electronics Co Div Hupp Corp	Omega Labs Inc	Universal Atomics Corp 50 Bond St Westbury LI NY 14-16
743 Circle Ave Forest Park Ill 14 Industrial Control Co	Haverhill St Rowley Mass 1-18 Optron Corp	Uniwave Inc 2 Marine St Farmingdale NY
805 Albin Ave Lindenhurst LI NY 12	3526 State St Santa Barbara Calif 19 Parr Mfg Corp	U S Dynamics Corp 1250 Columbus Ave Boston 20 Mass 1
Industrial Test Equipment Co 55 E 11 St New York 3 NY 6-12-20	48 Hale St Cranford NJ 13 Peschel Electronics Inc	Vaccion-Electronic Engry CO
International Research & Development Corp 797 Thomas Lane Columbus 16 Ohio 19	13 Garden St New Rochelle NY 20	86 Denton Ave New Hyde Park I.I NY Vacuum Tube Products Co
Irwin Labs 1238 S Gerhart Ave	Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY 14-16	506 S Cleveland St Oceanside Calif
Los Angeles 22 Calif 3-9-10	Philmore Mfg Co 113 University Pl New York 3 NY 1-4	P O Box 1089 Stamford Conn
Isomet Corp 118 Union St Palisades Park NJ 1	Photo Crystals Inc	Vectron Inc 1611 Trapelo Rd Waltham 54 Mass 18
Johnson Aircraft Eng'g Co M J Box 10 Morristown Airport	15 S 1 St Geneva III 17 Photobell Co	Victoreen Instrument Co 5806 Hough Ave Cleveland 3 Ohio 14-16
Morristown NJ 11-12-13	43 Vesey St New York 7 NY 3-17 Photocon Research Products	Volk Radiochemical Co
Johnson-Williams Inc 2625 Park Blvd Palo Alto 15 Calif 5	421 N Altadena Drive Pasadena Calif 3 Photographic Analysis Inc	Waveline Inc
J-V-M Eng'g Co 4633 S Lawndale Ave Lyons III 1	13273 Ventura Blvd N Hollywood Calif 2-5	Western Radiation Lab
Kidde & Co Walter 1156 Main St Belleville 9 NJ 2-3-7-17	Polytechnic Research & Development Co 303 Tillary St Brooklyn 1 NY 1-18	1107 W 24 St Los Angeles 7 Calif 14-16 Whittington Pump & Eng's Corp
Keithley Instruments Inc	Potter Aeronautical Corp PO Box 532 Union NJ 7-21	1126 Prospect St Indianapolis 3 Ind 7
12415 Euclid Ave Cleveland 6 Ohio 12-20 Kinney Mfg Div Vacuum Equip Div	Precise Development Corp	Wilcolator Co 1001 Newark Ave Elizabeth NJ 2
NY Air Brake Co 3529 Washington St Boston 30 Mass 7	Precision Technology Inc	Wood Counter Lab N 1525 E 53 St Chicago 15 Ill 1-14-16
Knopp Inc	66 South P St Livermore Calif 10-13 Production Research Corp	Worner Electronic Devices Rankin III 2-17
4224 Holden St Oakland 8 Calif 12 Kruger Instruments Harold	Thornwood NY 14	Zenith Electric Co
Box 164 San Gabriel Calif 5 Land-Air Inc Instrument & Electronic Div	Protectowire Co Hanover Mass 2	152 W Walton St Chicago 10 Ill 7
2133 Adams Ave San Leandro Calif 19	Pye Telecommunications Ltd Newmarket Rd Cambridge England 1	25-DIALS & FRONT PANEL
Landsverk Electrometer Co 550 W Garfield Ave Glendale 4 Calif 14	Radar Design Corp	ACCESSORIES
Larson Instrument Co 24 Orchard St Tarrytown NY 17	210 5 Ave New York 16 NY Radiation Counter Labs Inc	Belts 1
Leeds & Northrup Co	5121 W Grove St Skokie III 14-16	Bezels 2
4970 Stenton Ave Philadelphia 44 Pa 12 Lieco Inc	Radio Corp of America Commercial Electronic Products Camden 2 NJ 1	Chains 3
3610 Oceanside Rd Oceanside LI NY 1-18	Raytheon Mfg Co Commercial Equip Div 100 River St Waltham 54 Mass 5	Cords
Linde Air Products Div Union Carbide & Carbon	Rich Electronics Inc	Decalcomanias
30 E 42 St New York 17 NY Lord-Taber Co	Ripley Co	Dials, complete 7
40 Ontario St Canandaigua NY 2	1 Factory St Middletown Conn 17 Rowe Industries	Dials, precision
Lumenite Electronic Co 407 S Dearborn St Chicago 5 III 10-17-21	1702 Wayne St Toledo 9 Ohio 10	Escutcheon
Machinery Electrification Inc 35 Hudson St Northboro Mass 17	Ryan Co S C 1316 Yale Place Minneapolis 3 Minn 10	Faceplates11

Faces 12	Brunswick Instruments	General RF Fittings Inc
Knobs, metal	PO Box 813 New Brunswick NJ 18	702 Beacon St Boston 15 Mass 14
Knobs, molded	Cambridge Thermionic Corp	Glass & Bro Harry H
Knobs, wood	445 Concord Ave	10 Van Cortlandt Ave E
Lights, dial	Cambridge 38 Mass 14-22-23 Canadian Radium & Uranium Corp	New York 68 NY 25 Globe Electrical Mfg Co
Lights, dial assembly 17	630 5 Ave New York 20 NY 7-8	1729 W 134 St Gardena Calif 25
Lights, indicator 18	Central Electronic Mfrs Inc Sub	Gordon Enterprises
Lights, jewel pilot	Nuclear Corp of America 2 Richwood Pl Denville NJ 31	5362 N Cahuenga Blvd N Hollywood Calif 25
Lights, miniature 20	Century Lighting Inc	Gries Reproducer Corp
Lights, panel	521 W 43 St New York 36 NY 21	125 Beechwood Ave New Rochelle NY 13-14
Locks, dial	Chicago-Allis Mfg Corp 113 N Green St Chicago 7 Ill 1	Griffin Co John
Locks, shaft	113 N Green St Chicago 7 III 1 Chicago Miniature Lamp Works	2157 James Ave St Paul 5 Minn 25 Gudebrod Bros Silk Co
Luminous Markers 24	1500 W Ogden Ave Chicago 10 Ill 16-18-21	225 W 34 St New York 1 NY 4
Nameplates	Cinch Mfg Corp	Hamilton Glass Co
Pointers, dial	1026 S Homan Ave Chicago 24 Ill 28 Circon Component Co	2750 W Grand Ave Chicago 12 Ill 7 Hayward Scientific Glass Corp
Rubbers, drive	Santa Barbara Municipal Airport	217 N Magnolia Ave Whittier 1 Calif 30
Springs, knob	Goleta Calif 16-17-18-19-20-21	Hermes Plastics Inc
Tabs	Clearview Co	13 University Pl New York 13 NY 25 Hermetite Corp
Windows, glass 30	172 Stanton St New York 2 NY 25 Clevite Harris Products Inc	702 Beacon St Boston 15 Mass 30
Windows, metallized 31	6545 Carnegie Ave Cleveland 3 Ohio 27	Hetherington Inc
Tringons, meranized	Colman Tool & Machine Co	1200 Elmwood Ave
Accurate Electronics Corp	1017 NE 3 Ave Amarillo Texas 14 Conn Telephone & Electric Corp	Sharon Hill Pa 16-17-18-19-20-21 Hudson Lamp Co
169 S Abbe Rd W Elyria Ohio 14	70 Brittania St Meriden Conn 4-9-17	528 Elm St Kearny NJ 20
Accurate Spring Mfg Co	Croname Inc	iE Mfg
3811 W Lake St Chicago 24 III 28	3701 Ravenswood Ave	325 N Hoyne Ave Chicago 12 Ill 25-28
Ace Spring Mfg Co 78 W Houston St New York 12 NY 28	Chicago 13 Ill 2-5-7-8-10-13-25 Dale Products Inc Columbus Nebr 14	Industrial Devices Inc 982 River Rd Edgewater NJ 14-18-19
Ackerman Engravers	Dallons Labs	Industrial Engravers Inc
458 Broadway New York 13 NY 7-8	5066 Santa Monica Blvd	2212 McDonald Ave Brooklyn 23 NY 8-25
Acromark Co 443 Morrell St Elizabeth 4 NJ 7-8-9-25	Los Angeles 29 Calif 18 Davies Molding Co Harry	Insuline Corp of America 186 Granite St Manchester NH 7-13-14
Acton Laboratories	1428 N Wells St Chicago 10 Ill 14	186 Granite St Manchester NH 7-13-14 Intelex Systems Inc
533 Main St Acton Mass 7-8-14	Dearborn Glass Co	22 Thames St New York 6 NY 9
Aerolite Electronics Corp	6600 S Harlem Ave	Jan Hardware Mfg Co
507 26 St Union City NJ 16-17-18-19-20-21	Bedford Park Argo Ill 7-8-30 Decimeter Products Co	75 N 11 St Brooklyn 11 NY 2-14-23 Janco Corp
Aerolux Light Corp	730 Hooker St Denver 4 Colo 6	3111 Winona Ave Burbank Calif 14
653 11 Ave New York 36 NY 18	Dialight Corp	Jeffrey Mfg Co
Air Transport Mfg Co 1114 N Sycamore Ave	60 Stewart Ave Brooklyn 37 NY 16-17-18-19-20-21	803 N 4 St Columbus 16 Ohio 3 JFD Mfg Co
Los Angeles 38 Calif 10	Diamonite Products Mfg Co	6101-16 Ave Brooklyn 4 NY 4
Alden Products Co	217 4 St NE Canton 2 Ohio 28-30	Jodee Plastics Co
123A N Main St	Dietz Co Henry G	213 Shepherd Ave Brooklyn 8 NY 8-11
Brockton Mass 14-16-18-19-21 Allied Allegri Co	12-16 Astoria Blvd Long Island City 2 NY 7-8-25	Johnson Co E F Waseca Minn 7-13-14-19-21
141 River Rd Nutley 10 NJ 17	Dimco-Gray Co	Waseca Minn 7-13-14-19-21 Johnson Research Corp
Allied Engraving & Stamping Co	207 E 6 St Dayton 2 Ohio 14	Bethpage LI NY 6
17 Elm St Buffalo 3 NY 8-10-11-25 Allmetal Screw Products Co	D&M Products 13144 W McNichols Rd Detroit 35 Mich 23	Jones Electronics Hiram
821 Stewart Ave Garden City NY 10	Drake Mfg Co	2313 W Olive St Burbank Calif 13-14-23 Keil Eng'g Products Co
Alpha Metals Inc	1713 W Hubbard St	4356 Duncan Ave St Louis 10 Mo 25
56 Water St Jersey City 4 NJ 1 Amerac Inc	Chicago 22 Ill 2-16-19-20-21 Dry Screen Process Inc	Keystone Electronics Corp
116 Topsfield Rd Wenham Mass 7-8	1016 Madison Ave Pittsburgh 12 Pa 25	423 Broome St New York 13 NY 22-23
American Decalcomania Co	Du Mont Labs Inc Allen B	Kirkland Co H R 8 King St Morristown 4 NJ 16-17-18-19-21
4334 5 Ave Chicago 24 Ill 6 American Insulator Corp	760 Bloomfield Ave Clifton NJ 2-14 Duralith Corp	Kliegl Bros
New Freedom Pa 14	1025 Race St Philadelphia 7 Pa 7-11-25	321 W 50 St New York 19 NY 21
Anderson Associates H V	Eastern Etching & Mfg Co	Krengel Mfg Co
233 Broad St Summit NJ 31 Anderson & Sons	Grape St Chicopee Mass 8-25 Eldema Corp	227 Fulton St New York 7 NY 25 Kurz-Kasch Inc
N Elm St Westfield Mass 7-25	9844 Remer St	1421 S Broadway Dayton 1 Ohio 14
Anti-Corrosive Metal Products Co	El Monte Calif 16-18-19-20-21	Laminated Sheet Products Corp
Castleton-on-Hudson NY 10	Electrical Specialty Co	449 Neponset St Norwood Mass 25
Askania Regulator Co 240 E Ontario St Chicago 11 Ill 8	158 11 St San Francisco 3 Calif 25 Elm Labs	La Moree C D 2433 Birkdale St Los Angeles 31 Calif 25
Atlas E-E Corp	10 Washington Ave	Lancaster Glass Corp Lancaster Ohio 11
47 Prospect St Woburn Mass 25	Hastings-on-Hudson NY 7-8-22-25	Liberty Mirror Div
Automatic Electric Co 1033 W Van Buren St Chicago 7 III 9	Emerson Plastics Corp Seabury Ave & Butler Pl Bronx 61 NY 8-25	Libbey Owens Ford Glass Co
Avionics Ltd	Erie Resistor Corp	Brackenridge Pa 30-31 Link-Belt Co
PO Box 200 Niagara-on-the-Lake	644 W 12 St Erie 6 Pa 10-14-25	Prudential Plaza Chicago 1 Ill 3
Ontario Canada 25 Bache & Co Semon	Etched Products Corp 39-01 Queens Blvd	Linlar Inc
636 Greenwich St New York 14 NY 19-30	Long Island City 4 NY 8-25	4101 San Fernando Rd
Barker & Williamson Inc	Feav Co Neal	Glendale 4 Calif 14-17 Litton Industries of Calif
Canal & Beaver Sts Bristol Pa 13 Barnes Co Wallace	427 Olive St Santa Barbara Calif 7-8-13-25	336 N Foothill Rd Beverly Hills Calif 13
Div Associated Spring Corp	Fecker Inc J W	Lytle Eng'g & Mfg Co
Bristol Conn 28	6592 Hamilton Ave	1404 San Mateo Blvd SE
Bead Chain Mfg Co 110 Mountain Grove St	Pittsburgh 6 Pa 8 Federal Screw Products Inc	Albuquerque New Mexico 25 Luminous Processes Inc
Bridgeport 5 Conn 3	3917 N Kedzie Ave Chicago 18 III 17-19-21	161 E 42 St New York 17 NY 7-8-24-25
Beckman-Helipot Corp	Fish-Schurman Corp	Matchless Electric Co
Newport Beach Calif 7-8 Bestcraft Products Co	70 Portman Rd New Rochelle NY 30 Fluorocarbon Products Inc Div US Gasket Co	1700 Washington Blvd
626 Broadway New York 12 NY 25	602 N 10 St Camden 1 NJ 14	Chicago 12 III 16-18-20-21 Matthews & Co Jas H
Birnbach Radio Co	Frenchtown Porcelain Co	3956 Forbes St Pittsburgh 13 Pa 25
145 Hudson St New York 13 NY 4-14-23	Muirhead Ave Trenton 9 NJ 31	Maxson Instruments Div W L Maxson Corp
Bolling Industries Inc 1117 N Main Ave P O Box 981	Fuze-on Products Div Aetna Supply Inc 15 N Hickory St Arlington Heights Ill 10-11	47-37 Austell Pl Long Island City 1 NY 8
Scranton 2 Pa 8-25	Gaertner Scientific Corp	Maymer Corp 1961 W 112 St Cleveland 2 Ohio 8-25
Bolta Products Div General Tire & Rubber Co	1250 Wrightwood Ave Chicago 14 Ill 30	Metal Specialty Products Corp
70 Garden St Lawrence Mass 14 Borg Equip Div George W Borg Corp	Gee-Lar Mfg Co 418 S Wyman St Rockford III 13-14	27-01 Brooklyn Queens Expressway W
120 S Main St Janesville Wisc 8	418 S Wyman St Rockford III 13-14 General Cement Mfg Co	Woodside 77 NY 13
Boston Woven Hose & Rubber Co	Div Textron Inc	Meyercord Co
P O Box 1071 Boston 3 Mass 1 Brady Co W H	400 S Wyman St	5323 W Lake St Chicago 44 Ill 6
727 W Glendale Ave	Rockford III 14-16-17-18-19-21-28 General Components Inc	Micarta Fabricators Inc
Milwaukee 9 Wisc 25	225 E 144 St Bronx 51 NY 22-28	5324 N Ravenswood Ave
Brilhart Plastics Corp Old Country Rd Mineola NY 8	General Electric Co Apparatus Sales Div	Chicago 40 Ill 7-8-9-16-17-19-25 Mid-West Conveyor Co Metal Products Div
Old Country Rd Mineola NY 8 British Electronic Sales	1 River Rd Schenectady 5 NY 17-19-21 General Radio Co	7 & Sunshine Rd Kansas City 15 Kan 10-11
Box 132	275 Massachusetts Ave	Mid-West Spring Mfg Co
Oakland Gardens 64 NY 16-17-18-19-20-21	Cambridge 39 Mass 7-8-14	Etna St Mentone Ind 28

Mil Case Corp	Roflan Co Topsfield Mass 13-14	Filters, equalizer 6
35-18 37 St Long Island City NY 10-25	Rogan Bros 8031 N Monticello Skokie Ill 10-14	Filters, high pass
Millen Mfg Co James 150 Exchange St	Romar Plastics Inc	Filters, IF 8
Malden 48 Mass 2-7-8-13-14-22-23-26	1311 E Main St St Charles Ill 7	Filters, interference 9
Miller Dial & Nameplate Co	Rubbercraft Corp of Calif	Filters, line 10
4400 N Temple City Blvd	1800 W 220 St Torrance Calif 14	Filters, low pass
El Monte Calif 6-7-25	Safetee Glass Co 4717 Stenton Ave	Filters, mechanical
Mitronics Inc 1290 Central Ave Hillside NJ 31	Philadelphia 44 Pa 30-31 Sage Labs Inc	Filters, microwave 13
Molded Insulation Co	30 Guinan St Waltham 54 Mass 30-31	Filters, needle scrotch 14
335 E Price St Philadelphia 44 Pa 14	Sampson Chemical & Pigment Corp	Filters, noise suppressing 15
Molded Products Div Admiral Corp	2830 W Lake St Chicago 12 Ill 7-8-24-26	riters, noise suppressing 15
Washington & Creamery Rd	Schrack Electrical Sales Corp	Filters, radio interference 16
W Chicago III 14	45 W 81 St New York 24 NY 9 Semrow Products Co	Filters, radio tower lighting 17
Molding Corp of America 58 Weybosset St Providence 3 RI 14	4317 N Ravenswood Ave Chicago 13 Ill 2	Filters, R-F 18
Muirhead & Co Ltd	Servo Corp of America	Filters, screen room 19
Beckenham Kent England 14	2020 Jericho Turnpike New Hyde Park NY 8	Filters, telemetering 20
Muirhead Instruments Inc	Signalite Inc	Filters, TV
677 5 Ave New York 22 NY 8-14	37 Neptune Hwy Neptune NJ 18-20 Sillcocks-Miller Co	Filters, UHF-VHF 22
Mutual Electronic Industries Corp 85 Beechwood Ave	10 W Parker Ave Maplewood NJ 5-8-9	Filters, variable 23
New Rochelle NY 7-8-26	Sinclair Mfg Co	Filters, vestigial sideband 24
National Carbon Co	PO Box 243 Chartley Mass 13	Filters, video 25
Div Union Carbide & Carbon Corp	Smith Inc Herman H 2326 Nostrand Ave	Filters, wavetrop 26
30 E 42 St New York 17 NY 18-20-21	Brooklyn 10 NY 14-19-22-23-26	•
National Company Inc 61 Sherman St	Soderberg Mfg Co 628 S Palm Ave	Adler Electronics Inc
Malden 48 Mass 7-8-13-14-22-23-26	Alhambra Calif 16-17-18-19-20-21	1 LeFevre Lane New Rochelle NY 3-7-11 Admittance Namco Corp
National Screw & Mfg Co	Stokes Molded Products Div	Marine St
2440 E 75 St Cleveland 4 Ohio 8	Electric Storage Battery Co	Farmingdale LI NY 3-4-7-11-13-21-22
Newcomb Spring of Conn	241 Taylor St Trenton 4 NJ 14	Advance Electronics Co
College Hwy Southington Conn 28 Newcomb Spring Corp	Stone City Machine & Tool Co 1206 7 St Bedford Ind 2-25	8510 North End Ave Oak Park 37 Mich 9-21-22-26
177 E Hawthorne Ave	Stromberg-Carlson Div General Dynamics Corp	Oak Park 37 Mich 9-21-22-26 Aerovox Corp Pacific Coast Div
Valley Stream NY 1-28	100 Carlson Rd Rochester 3 NY 4-7-8-9	2724 S Peck Rd 3-4-7-8-9-10-11-15-16
New England Electrical Works	Sun Dial Corp	Monrovia Calif 18-19-20-22-24-25-26
365 Main St Lisbon NH Now England Etching & Plating Co	PO Box 326 Caldwell NJ 7-8	Aerovox Corp
New England Etching & Plating Co Spring St Holyoke Mass 8-25	Sylvania Electric Products Inc 1740 Broadway New York 19 NY 14-18-20	740 Belleville Ave New Bedford Mass 9-10-16
New York Mfg & General Supply Co	Swenson & Co V H	Airborne Accessories Corp 1414 Chestnut Ave Hillside 5 NJ 18
10-38 Jackson Ave	554 Elm St Arlington NJ 10-14-25	Air-Maze Corp
Long Island City 1 NY 18-20-21	Taffet Radio & TV Co	25000 Miles Rd Cleveland 28 Ohio 12
Norsid Mfg Co	27-05 Brooklyn Queens Expressway W Woodside 77 NY 13	Airtron Inc
33 Prospect St Yonkers 1 NY 6 North Electric Co	Technicraft Co	1101 11 21122200011 1110 25111111
553 S Market St Galion Ohio 9	1156 Commonwealth Ave Boston 34 Mass 7	Alford Mfg Co 299 Atlantic Ave Boston 10 Mass 24
North Shore Nameplate Inc	Techniques Inc	Allen-Bradley Co
214-27 Northern Blvd Bayside 61 NY 25	52 Jackson Ave Hackensack NJ 7-8-10-25	136 W Greenfield Ave Milwaukee 4 Wisc 22
Nucleonic Products Co	Telectro Industries Corp 35-18 37 St Long Island City 1 NY 1-10	Allison Labs Inc
1601 Grande Vista Ave Los Angeles 23 Calif 18	Telex	14185 Skyline Dr La Puente Calif 2-3-7-11-23
Olympic Plastics Co	1633 Eustis St St Paul 1 Minn 14	All-Tronics Inc 45 Bond St Westbury NY 9-10-16
3471 S LaCienega Blvd	Toman & Co E	American Communications Corp
Los Angeles 16 Calif 14	8700 W 47 St Lyons Ill 14-25	280 Broadway New York 17 NY 21-22-25-26
Oxford Electric Corp	Tung-Sol Electric Inc 95 8 Ave Newark 4 NJ 16-18-20-21	American Electronics Laboratories
3911 S Michigan Ave Chicago 15 Ill 20	95 8 Ave Newark 4 NJ 16-18-20-21 Ucinite Co	121 N 7 St Philadelphia 6 Pa 13 American Electronics Co
Pacific Transducer Corp	Div United-Carr Fastener Corp	1203 Bryant Ave
11836 W Pico Blvd	459 Watertown St Newtonville 60 Mass 18-19	New York 59 NY 1-3-4-7-9-11-16
Los Angeles 64 Calif 13	U S Instrument Corp	American Research & Mfg Corp
Painton & Co Ltd c/o British Electronic Sales Co	PO Box 33E Charlottesville Va 7-8-9-13-14	920 Halpine Ave Rockville Md 2-3-8
Box 132 Oakland Gardens 64 NY 14	U S Radium Corp	Amphenol Electronics Corp 1830 S 54 Ave Chicago 50 Ill 7
Palmer Inc M V	Morristown NJ 7-8	Amplex Div Chrysler Corp
4002 Fruit Valley Rd Vancouver Wash 9	U S Rubber Co	P O Box 2718 Detroit 31 Mich 15
Pampa Electronics Corp	1230 6 Avè New York 20 NY 1 U S Stoneware Co	Amtron Corp
7354 Frankford Ave Philadelphia 36 Pa 25 Panellit Inc	Alite Div Orville Ohio 31	17 Felton St Waltham 54 Mass 22 Anchor Specialty Mfg Co
7401 N Hamlin Ave Skokie Ill 25	Vari Equip Co	Hollister Rd Teterboro NJ 2-3
Park Nameplate Co	P O Box 46	Anderton Electronic Lab
34-10 Linden Pl Flushing 54 NY 6-7-25	W Cornwall Conn 25	129 E 1800 S St Bountiul Utah 2-4-7-11-14
Perkin-Elmer Corp	Vector Electronic Co 3352 San Fernando Rd	Andrew California Corp 941 E Maryland Ave Claremont Calif 1-13-17
Main Ave Norwalk Conn 30 Permonite Mfg Co	Los Angeles 65 Calif 23	941 E Maryland Ave Claremont Calif 1-13-17 Andrew Corp
444 Lake Shore Dr Chicago 11 Ill 16-17	Victory Mfg Corp	363 E 75 St Chicago 19 III
PIC Design Corp	1722 W Arcade Pl Chicago 12 Ill 2-14-25	Apparatus Development Co
477 Atlantic Ave	Vocalite Screen Corp	115 Main St Wethersfield 9 Conn 4
E Rockaway LI NY 7-8-14	19 Debevoise Ave Roosevelt NY 11-25 Waldom Electronics Inc	Applied Research Inc
Plastic Accessories Inc 91 Mercer St New York 12 NY 5-8-25	4625 W 53 St	163-07 Depot Rd Flushing 58 NY 3-6-13-18-21-22
Plastic Mold & Eng'g Co	Chicago 32 III 2-7-8-10-14-22-23-25	Ark Eng'g Co
157 Clifford St Providence RI 14	Walsco Electronics Mfg Co	431 W Tabor Rd 9-10-13-15
Poray Inc	100 W Green St Rockford III 1-4-19-28	Philadelphia 20 Pa 16-18-19-20-22
3369 W Grand Ave Chicago 51 Ill 2-10 Pratt Albert	Waltham Watch Co 221 Crescent St Waltham 54 Mass 8-24	Arrow Radio Co 1829 Davenport Rd 8-9-10-15
114 W Lake View Ave	Walton Tool & Die Co	Toronto Ontario Canada 16-18-19
Milwaukee 17 Wisc 25	2707 Empire Ave Burbank Calif 13	Artted Co
Printed Cellorhane Tape Co	Westline Products Div Western Lithograph Co	367 Worthington St Springfield 3 Mass 18-26
521 N La Brea St	600 E 2 St Los Angeles 54 Calif 24-25 Wheaton Co T C	Astron Corp
Los Angeles 36 Calif 6-25 Printloid Corp	Millville NJ 13-14	255 Grant Ave E Newark NJ 7-9-11-15-16-18-19
93 Mercer St New York 12 NY 5-7-8	White Dental Mfg Co S S Industrial Div	Atlas Eng'g Co
Pye Telecommunications Ltd	10 E 40 St New York 16 NY	176 Blue Hill Ave Roxbury 19 Mass 2-15
Newmarket Rd Cambridge England 5	Winder Aircraft Corp of Florida P O Box 2397	Audio Development Co
Raybestos-Manhattan Inc 61 Willett St Passaic NJ 1	Drane Field Lakeland Fla 7-11-25	2833 13 Ave S Minneapolis Minn 1-2-3-4-6-7-10-11-14
Raytheon Mfg Co	Wisconsin Porcelain Co	Automatic Switch Co
100 River St Waltham 54 Mass 14-23	121 Lincoln St	Hanover Rd Florham Park NJ 10
Raytheon Mfg Co Ceramic Sales	Sun Prairie Wisc 14	Axel Electronics
Foundry Ave Waltham Mass 31		134-20 Jamaica Ave Jamaica 18 NY 15
Reeves Instrument Corp 215 E 91 St New York 28 NY 8	26FILTERS	Baird-Atomic Inc 33 University Rd Cambridge 38 Mass 3-4-9
Reliable Spring & Wire Forms Co	· · · · ·	Balco Research Labs
3167 Fulton Rd Cleveland 9 Ohio 28	Filters, antenna 1	49 Edison Place Newark 2 NJ 1-3-7-11
Remler Co	Filters, audio 2	Barker Sales Co
2101 Bryant St	Filters, bandpass 3	996 Edgewater Ave Ridgefield NJ 2 Barker & Williamson Inc
San Francisco Calif 7-13-14 Republic Rubber Div Lee Rubber & Tire Corp	Filters, band rejection 4	Canal & Beaver Sts 1-2-3-4-7-8-9-10-
1410 Albert St Youngstown 1 Ohio 1	Filters, crystal 5	Bristol Pa 11-16-17-18-24-26
-	-	

Basler Electric Co	Diamond Antenna & Microwave Corp	Gulton Industries Inc
601 5 St Highland Ill 3-7-11	7 North Assa 1-9 4-7-	212 Durham Ave Metuchen NJ 8-1
Bassett Inc Rex	Wakefield Mass 10-11-13-18 Dielectric Products Eng'g Co	Hallett Mfg Co
1314 N E 17 Ct Ft Lauderdale Fla 2-5-9-15	Dielectric Products Eng'g Co	1601 W Florence Inglewood Calif 9-15-1
Bell & Gossett Co	Raymond Me 1-3-4-11-18-22-24	Hallicrafters Co
8200 Austin Ave Morton Grove Ill 3	Douglas Microwave Co	4401 W 5 Ave Chicago 24 Ill 5-13-21-2
Bendix Aviation Corp Pacific Div	252 E 3 St Mt Vernon NY 13	Hammarlund Mfg Co 460 W 34 St New York 1 NY 2
11600 Sherman Way N Holloywood Calif 3-20	D & R Ltd	460 W 34 St New York 1 NY Hermetic Seal Transformer Co
Bird Electronic Corp	402 E Gutierree St Santa Barbara Calif 2-3-4-7-11-16-21	P O Box 277 Garland Texas 2-3-4-7-1
1800 E 38 St Cleveland 14 Ohio 18	Santa Barbara Calif 2-3-4-7-11-16-21 Downing Crystal Co	Hill Electronic Eng'g & Mfg Co
B J Electronics Borg-Warner Corp 3300 Newport Ave	191 Shaffer Ave Westminister Md 5	New Kingstown Pa 2-3-4-5-2
Santa Ana Calif 7-11-22	Eastern Precision Resistor Corp	Hogan Labs Inc
Blackburn Electronic Corp	675 Barbey St Brooklyn 7 NY	155 Perry St New York 14 NY
55 W 7 St Wyoming Pa 11	Eastman Kodak Co	Hoover Electronics Co
Blonder-Tongue Laboratories	343 State St Rochester 4 NY 9-21	3640 Woodland Ave Baltimore 7 Md 9-15-1
9-25 Alling St Newark 2 NJ 3-10-26	Edin Co	Hopkins Eng'g Co
Bogart Mfg Corp	207 Main St Worcester 8 Mass 3	12900 Foothill Blvd
315 Seigel St Brooklyn 6 NY 13	Electro Assemblies Inc	San Fernando Calif 9-10-11-15-16-18-1
Budd Stanley Co	4444 N Kedzie Ave Chicago 25 III 3-8-11-18	Hupp Electronics Co Div Hupp Corp
43-01 22 St Long Island City 1 NY 13	Electronic Designs Inc	743 Circle Ave Forest Park Ill
Bulova Watch Co Electronics Div	28 School St Yonkers NY 9	Hycon Eastern Inc
40-01 61 St Woodside 77 NY 5	Electronic Specialty Co	75 Cambridge Pkwy Cambridge 42 Mass 3-4-5-8-2
Bundy Electronics Corp	5121 San Fernando Rd	Hycon Mfg Co
171 Fabyan Pl	Los Angeles 39 Calif 1-3-4-7-9-11-13-18-22 Electronic Transformer Co	707 S Raymond Ave Pasadena Calif
Newark 12 NJ 2-3-4-7-8-9-10-11-15-16-20	70 Washington St	Inductor Eng'g Inc
Burnell & Co	Brooklyn 1 NY 1-2-3-4-7-11	117 Schley Ave Lewes Del 2-3-4-7-1
45 Warburton Ave Yonkers NY 1-2-3-4-5-6-7-8-11-20-24	Electronics Development Co	Industrial Development Eng'g Assoc
Caledonia Electronics & Transformer Corp	3743 N Caheuenga Blvd	7900 Pendleton Pike Indianapolis Ind
P O Box 298 Caledonia NY 2-3-4-7-11	N Hollywood Calif 24	Industrial Transformer Corp
Calif Magnetic Control Corp	Electron Products Inc	Gouldsboro Pa 2-3-4-7-11-2
11922 Valerio St N Hollywood Calif 2	430 N Halstead St	Interference Measurement Lab Inc
Cambridge Thermionic Corp	Pasadena 8 Calif 9-15-16-19	907 E 51 St Brooklyn 3 NY 9-10-1
445 Concord Ave	Electrosolids Corp	Intelex Systems Inc
Cambridge 38 Mass 1-4-8-18-23	7436 Varna Ave N Hollywood Calif 2-3	22 Thames St New York 6 NY
Canoga Corp	Electro-Technical Labs Div Mandrel Industries	Int'l Research & Development 797 Thomas Lane Columbus 16 Ohio 3-7-11-2
5955 Sepulveda Blvd Van Nuys Calif 13	5134 Glenmont Houston Texas 11	Jackson Electronics Inc
Capitol Transcription Service	El-Rad Mfg Co 2800 W Cullom Ave	23 Woodcrest Rd
1120-A Conn Ave N W Washington 6 DC 2	Chicago 18 Ill 1-2-3-4-7-8-9-11-26	West Chester Pa 3-8-13-18-2
Carnf Co Box 554	Entron Inc	Jerrold Electronics Corp
Brookhaven Miss 9-10-11-15-16-18-19-22	4902 Lawrence St 1-3-4-6-7-9-10- Bladensburg Md 11-16-18-21-22-23	23 & Chestnut Sts
CELCO Constantine Eng'g Labs Co	Bladensburg Md 11-16-18-21-22-23	Philadelphia 3 Pa 3-18-21-22-25-2
P O Box 555 Mahwah NJ 2-3	Epco Electronics Inc	JFD Mfg Co
Central Electronics Inc	140 Liberty St	6101-16 Ave Brooklyn 4 NY 1-7-9-10-2
1247 W Belmont Ave Chicago 13 Ill 3-18	New York 6 NY 7-9-10-26	Johnson Co E F Waseca Minn 11-1
CG Electronics Corp	Epsco Inc 588 Commonwealth Ave Boston 15 Mass 3-11	
305 Dallas St N E	ESC Corp	521 Elwell St 1-2-3-4-5-6-7-8-
Albuquerque New Mex 1-3-4-13-22 CGS Laboratories Inc	534 Bergen Blvd	Johnson Electronics 521 Elwell St 1-2-3-4-5-6-7-8- Orlando Fla 10-11-15-16-18-20-21-25-2
391 Ludlow St Stamford Conn 18-23	Palisades Park NJ 3-4-6-7-11-22	J-V-M Eng'g Co
Channel Master Corp	Essex Electronics Div NYT Electronics Inc	4633 S Lawndale Ave Lyons Ill 1-13-2
Ellenville NY 1-3	7303 Atoll Ave N Hollywood Calif 1-7-8-11-18	Keystone Products Co
Chicago Electronic Eng'g Co	Essex Electronics	
3223 W Armitage Ave Chicago 47 Ill 2-3-7-11	550 Springfield Ave Berkeley Heights NJ 3-4-8-11-18	Knights Co James Church & Wells Sts Sandwich III
Chicago Standard Transformer Corp	Berkeley Heights NJ 3-4-8-11-18 Farrand Controls Inc	Krohn-Hite Corp
3501 W Addison St 2-3-4	4401 Bronx Blvd New York 70 NY 9	580 Massachusetts Ave
Chicago 31 Ill 6-7-11 Cinema-Television Ltd	Federal Telephone & Radio Co Div IT&T	Cambridge 39 Mass 2-3-4-2
Cimenia-Television Ltd	1 Cultural 1 1 1 1 1 Cultural 1 1 1 1 1 0 Cultural 1 1 1 1 0 Cultural 1 1 1 1 0 Cultural 1 1 1 1 1 0 Cultural 1 1 1 1 1 0 Cultural 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Lambda-Pacific Eng'g Inc
Worsley Bridge Rd Lower Sydenham	100 Kingsland Rd Ulitton NJ 1-5-11-20	
Worsley Bridge Rd Lower Sydenham London S E 26 England	100 Kingsland Rd Clifton NJ 1-5-11-26 Femco Inc	14725 Arminta St Van Nuys Calif 1
London S E 26 England 21	100 Kingsland Rd Clifton NJ 1-5-11-20 Femco Inc Irwin Pa 2	Langevin Mfg Corp
London S E 26 England 21	Femco Inc Irwin Pa 2 Filtron Co	Langevin Mfg Corp 47-37 Austell Pl
London S E 26 England 21	Femco Inc Irwin Pa 2 Filtron Co 10023 W Jefferson Blvd 1-3-4-7-8-9-10-11-	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1
London S E 26 England   21	Femco Inc Irwin Pa 2 Filtron Co 10023 W Jefferson Blvd 1-3-4-7-8-9-10-11- Culver City Calif 13-15-16-18-19-20	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY LaPointe Industries Inc
London S E 26 England         21           Clegg Labs Div Clegg Inc         Ridgedale Ave           Ridgedale Ave         1-3-4-7-9-11-           Morristown NJ         16-21-22-26           Coil craft Inc Cary III         3-4-8-26	Femco Inc	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2
London S E 26 England   21	Femco Inc	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc
London S E 26 England   21	Femco Inc Irwin Pa 2 Filtron Co 10023 W Jefferson Blvd 1-3-4-7-8-9-10-11- Culver City Calif 13-15-16-18-19-20 Filtron Co 131-15 Fowler Ave 1-3-7-9-10-11-15 Flushing 55 NY 16-18-19-22-23	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1-
London S E 26 England   21	Femco Inc	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St
London S E 26 England   21	Femco Inc	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co
London S E 26 England   21	Femco Inc	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-2-3-7-8-9-11-18-21-2 Lewis Co E B
London S E 26 England   21	Femco Inc Irwin Pa 2 Filtron Co 10023 W Jefferson Blvd 1-3-4-7-8-9-10-11- Culver City Calif 13-15-16-18-19-20 Filtron Co 131-15 Fowler Ave 1-3-7-9-10-11-15 Flushing 55 NY 16-18-19-22-23 Fisher Radio Corp 21-21 44 Dr Long Island City 1 NY 2-6-14 Foster Transformer Co 3820 Colerain Ave Cincinnati 23 Ohio 3-10-11	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-2-3-7-8-9-11-18-21-2 Lewis Co E B 11 Bragg St E Hartford 8 Conn
London S E 26 England   21	Femco Inc Irwin Pa 2 Filtron Co 10023 W Jefferson Blvd 1-3-4-7-8-9-10-11- Culver City Calif 13-15-16-18-19-20 Filtron Co 131-15 Fowler Ave 1-3-7-9-10-11-15 Flushing 55 NY 16-18-19-22-23 Fisher Radio Corp 21-21 44 Dr Long Island City 1 NY 2-6-14 Foster Transformer Co 3820 Colerain Ave Cincinnati 23 Ohio 3-10-11 Foto-Video Labs Inc	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-2-3-7-8-9-11-18-21-2 Lewis Co E B 11 Bragg St E Hartford 8 Conn Lieco Inc
London S E 26 England   21	Femco Inc	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-2-3-7-8-9-11-18-21-2 Lewis Co E B 11 Bragg St E Hartford 8 Conn Lieco Inc 3610 Oceanside Rd Oceanside LI NY 1
London S E 26 England   21	Femco Inc	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-2-3-7-8-9-11-18-21-2 Lewis Co E B 11 Bragg St E Hartford 8 Conn Lieco Inc 3610 Oceanside Rd Oceanside LI NY 1 Ling Electronics Inc
London S E 26 England   21	Femco Inc	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-2-3-7-8-9-11-18-21-2 Lewis Co E B 11 Bragg St E Hartford 8 Conn Lieco Inc 3610 Oceanside Rd Oceanside LI NY 1 Ling Electronics Inc 5120 W Jefferson Blvd
London S E 26 England   21	Femco Inc	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-2-3-7-8-9-11-18-21-2 Lewis Co E B 11 Bragg St E Hartford 8 Conn Lieco Inc 3610 Oceanside Rd Oceanside LI NY Ling Electronics Inc 5120 W Jefferson Blvd
London S E 26 England   21	Femco Inc	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-2-3-7-8-9-11-18-21-2 Lewis Co E B 11 Bragg St E Hartford 8 Conn Lieco Inc 3610 Oceanside Rd Oceanside LI NY 1 Ling Electronics Inc 5120 W Jefferson Blvd Los Angeles 16 Calif 2-3-4-6-1 Link-Radio Corp 110 Jericho Turnpike
London S E 26 England   21	Femco Inc	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-2-3-7-8-9-11-18-21-2 Lewis Co E B 11 Bragg St E Hartford 8 Conn Lieco Inc 3610 Oceanside Rd Oceanside LI NY 1 Ling Electronics Inc 5120 W Jefferson Blvd Los Angeles 16 Calif 2-3-4-6-1 Link-Radio Corp 110 Jericho Turnpike New Hyde Park LI NY 2
London S E 26 England   21	Femco Inc	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-2-3-7-8-9-11-18-21-2 Lewis Co E B 11 Bragg St E Hartford 8 Conn Lieco Inc 3610 Oceanside Rd Oceanside LI NY 1 Ling Electronics Inc 5120 W Jefferson Blvd Los Angeles 16 Calif 2-3-4-6-1 Link-Radio Corp 110 Jericho Turnpike New Hyde Park LI NY Lynch Carrier Systems Inc
London S E 26 England   21	Femco Inc	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-2-3-7-8-9-11-18-21-2 Lewis Co E B 11 Bragg St E Hartford 8 Conn Lieco Inc 3610 Oceanside Rd Oceanside LI NY 1 Ling Electronics Inc 5120 W Jefferson Blvd Los Angeles 16 Calif 2-3-4-6-1 Link-Radio Corp 110 Jericho Turnpike New Hyde Park LI NY 2 Lynch Carrier Systems Inc 695 Bryant St
London S E 26 England	Femco Inc	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-2-3-7-8-9-11-18-21-2 Lewis Co E B 11 Bragg St E Hartford 8 Conn Lieco Inc 3610 Oceanside Rd Oceanside LI NY 1 Ling Electronics Inc 5120 W Jefferson Blvd Los Angeles 16 Calif 2-3-4-6-1 Link-Radio Corp 110 Jericho Turnpike New Hyde Park LI NY Lynch Carrier Systems Inc 695 Bryant St San Francisco 7 Calif 3-4-10-1
London S E 26 England   21	Femco Inc Irwin Pa 2 Filtron Co 10023 W Jefferson Blvd 1-3-4-7-8-9-10-11- Culver City Calif 13-15-16-18-19-20 Filtron Co 131-15 Fowler Ave 1-3-7-9-10-11-15 Flushing 55 NY 16-18-19-22-23 Fisher Radio Corp 21-21 44 Dr Long Island City 1 NY 2-6-14 Foster Transformer Co 3820 Colerain Ave Cincinnati 23 Ohio 3-10-11 Foto-Video Labs Inc 25 Amity St Little Falls NJ 21-25 F-R Machine Works Inc Electronic & X-Ray Div 26-12 Borough Pl Woodside 77 NY 13 Freed Transformer Co 1718-36 Weirfield St Brooklyn 27 NY 7-11-20 Frequency Standards Inc P O Box 564 Asbury Park NJ 1-3-4-13-18 Fugle-Miller Labs Inc 301 Central Ave Clark NJ 1-3-6-7-8-11-18-22-25	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-2-3-7-8-9-11-18-21-2 Lewis Co E B 11 Bragg St E Hartford 8 Conn Lieco Inc 3610 Oceanside Rd Oceanside LI NY 1 Ling Electronics Inc 5120 W Jefferson Blvd Los Angeles 16 Calif 2-3-4-6-1 Link-Radio Corp 110 Jericho Turnpike New Hyde Park LI NY Lynch Carrier Systems Inc 695 Bryant St San Francisco 7 Calif 3-4-10-1 Lynmar Engineers Inc
London S E 26 England   21	Femco Inc Irwin Pa 2 Filtron Co 10023 W Jefferson Blvd 1-3-4-7-8-9-10-11- Culver City Calif 13-15-16-18-19-20 Filtron Co 131-15 Fowler Ave 1-3-7-9-10-11-15 Flushing 55 NY 16-18-19-22-23 Fisher Radio Corp 21-21 44 Dr Long Island City 1 NY 2-6-14 Foster Transformer Co 3820 Colerain Ave Cincinnati 23 Ohio 3-10-11 Foto-Video Labs Inc 25 Amity St Little Falls NJ 21-25 F-R Machine Works Inc Electronic & X-Ray Div 26-12 Borough Pl Woodside 77 NY 13 Freed Transformer Co 1718-36 Weirfield St Brooklyn 27 NY 7-11-20 Frequency Standards Inc P O Box 504 Asbury Park NJ 1-3-4-13-18 Fugle-Miller Labs Inc 301 Central Ave Clark NJ 1-3-6-7-8-11-18-22-25 Gabriel Electronics Div Gabriel Co	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-2-3-7-8-9-11-18-21-2 Lewis Co E B 11 Bragg St E Hartford 8 Conn Lieco Inc 3610 Oceanside Rd Oceanside LI NY 1 Ling Electronics Inc 5120 W Jefferson Blvd Los Angeles 16 Calif 2-3-4-6-1 Link-Radio Corp 110 Jericho Turnpike New Hyde Park LI NY Lynch Carrier Systems Inc 695 Bryant St San Francisco 7 Calif 3-4-10-1 Lynmar Engineers Inc 1432 N Carlisle St
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London S E 26 England   21	Femco Inc Irwin Pa	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-2-3-7-8-9-11-18-21-2 Lewis Co E B 11 Bragg St E Hartford 8 Conn Lieco Inc 3610 Oceanside Rd Oceanside LI NY 1 Ling Electronics Inc 5120 W Jefferson Blvd Los Angeles 16 Calif 2-3-4-6-1 Link-Radio Corp 110 Jericho Turnpike New Hyde Park LI NY Lynch Carrier Systems Inc 695 Bryant St San Francisco 7 Calif 3-4-10-1 Lynmar Engineers Inc 1432 N Carlisle St Philadelphia 21 Pa 1-2-4-6-7-9-1 Lysco Mfg Co 1401 Clinton St Hoboken NJ MCOy Electronics Co
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London S E 26 England	Femco   Inc   Irwin   Pa   2	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-2-3-7-8-9-11-18-21-2 Lewis Co E B 11 Bragg St E Hartford 8 Conn Lieco Inc 3610 Oceanside Rd Oceanside LI NY 1 Ling Electronics Inc 5120 W Jefferson Blvd Los Angeles 16 Calif 2-3-4-6-1 Link-Radio Corp 110 Jericho Turnpike New Hyde Park LI NY Lynch Carrier Systems Inc 695 Bryant St San Francisco 7 Calif 3-4-10-1 Lynmar Engineers Inc 1432 N Carlisle St Philadelphia 21 Pa 1-2-4-6-7-9-1 Lysco Mfg Co 1401 Clinton St Hoboken NJ 1 McCoy Electronics Co Chestnut & Watts Sts Mt Holly Springs Pa Mack Electronics Div Mack Trucks Inc 1120 S 2 St Plainfield NJ
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London S E 26 England	Femco Inc Irwin Pa  Filtron Co  10023 W Jefferson Blvd  1-3-4-7-8-9-10-11- Culver City Calif  Filtron Co  131-15 Fowler Ave Flushing 55 NY  16-18-19-22-23  Fisher Radio Corp 21-21 44 Dr Long Island City 1 NY 2-6-14  Foster Transformer Co 3820 Colerain Ave Cincinnati 23 Ohio  3-10-11  Foto-Video Labs Inc 25 Amity St Little Falls NJ  21-25  F-R Machine Works Inc Electronic & X-Ray Div 26-12 Borough Pl Woodside 77 NY  13  Freed Transformer Co 1718-36 Weirfield St Brooklyn 27 NY 7-11-20  Frequency Standards Inc P O Box 504 Asbury Park NJ  1-3-4-13-18  Fugle-Miller Labs Inc 301 Central Ave Clark NJ  Gabriel Electronics Div Gabriel Co 135 Crescent Rd Needham Heights 94 Mass 1  Gates Radio Co 123 Hampshire St Quincy Ill  General Grommunication Co 677 Beacon St Boston 15 Mass 13  General Corp 711 Stewart Ave Garden City NY 1-11-13  General Corp O Box 98 Burlington Wis General Instrument Corp	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-2-3-7-8-9-11-18-21-2 Lewis Co E B 11 Bragg St E Hartford 8 Conn Lieco Inc 3610 Oceanside Rd Oceanside LI NY 1 Ling Electronics Inc 5120 W Jefferson Blvd Los Angeles 16 Calif 2-3-4-6-1 Link-Radio Corp 110 Jericho Turnpike New Hyde Park LI NY 2 Lynch Carrier Systems Inc 695 Bryant St San Francisco 7 Calif 3-4-10-1 Lynmar Engineers Inc 1432 N Carlisle St Philadelphia 21 Pa 1-2-4-6-7-9-1 Lysco Mfg Co 1401 Clinton St Hoboken NJ 1 McCoy Electronics Co Chestnut & Watts Sts Mt Holly Springs Pa Mack Electronic Div Mack Trucks Inc 1120 S 2 St Plainfield NJ Maryland Electronic Mfg Corp 5009 Calvert Rd College Park Md 13-1 Measurement Eng'g Ltd 232 John St Arnprior Ontario Can 2-3-4-7-1
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London S E 26 England   21	Femco Inc Irwin Pa  Filtron Co  10023 W Jefferson Blvd  1-3-4-7-8-9-10-11- Culver City Calif  Filtron Co  131-15 Fowler Ave  13-15-16-18-19-20  Filtron Co  131-15 Fowler Ave  16-18-19-22-23  Fisher Radio Corp  21-21 44 Dr Long Island City 1 NY 2-6-14  Foster Transformer Co  3820 Colerain Ave Cincinnati 23 Ohio  Foto-Video Labs Inc  25 Amity St Little Falls NJ  21-25  F-R Machine Works Inc Electronic & X-Ray Div 26-12 Borough Pl  Woodside 77 NY  Freed Transformer Co  1718-36 Weirfield St Brooklyn 27 NY 7-11-20  Frequency Standards Inc  P O Box 504 Asbury Park NJ  1-3-4-13-18  Fugle-Miller Labs Inc  301 Central Ave Clark NJ  1-3-6-7-8-11-18-22-25  Gabriel Electronics Div Gabriel Co  135 Crescent Rd Needham Heights 94 Mass 1  Gates Radio Co  123 Hampshire St Quincy Ill  2-18-24  General Bronze Corp  711 Stewart Ave Garden City NY  1-11-13  General Communication Co  677 Beacon St Boston 15 Mass  13  General Crystal Co  P O Box 9 Burlington Wis  General Instrument Corp  65 Gouveneur St Newark NJ  8-18-21-26  General Precision Lab Inc  63 Bedford Rd Pleasantville NY  13  General Radio Co  2-75 Massachusetts Ave Cambridge 39 Mass  2-3-22  Geotronic Labs Inc	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-2-3-7-8-9-11-18-21-2 Lewis Co E B 11 Bragg St E Hartford 8 Conn Lieco Inc 3610 Oceanside Rd Oceanside LI NY 1 Ling Electronics Inc 5120 W Jefferson Blvd Los Angeles 16 Calif 2-3-4-6-1 Link-Radio Corp 110 Jericho Turnpike New Hyde Park LI NY 2 Lynch Carrier Systems Inc 695 Bryant St San Francisco 7 Calif 3-4-10-1 Lynmar Engineers Inc 1432 N Carlisle St Philadelphia 21 Pa 1-2-4-6-7-9-1 Lysco Mfg Co 1401 Clinton St Hoboken NJ 1 McCoy Electronics Co Chestnut & Watts Sts Mt Holly Springs Pa Mack Electronics Div Mack Trucks Inc 1120 S 2 St Plainfield NJ Maryland Electronic Mfg Corp 5009 Calvert Rd College Park Md 13-1 Messurement Eng'g Ltd 232 John St Arnprior Ontario Can 2-3-4-7-1 Melpar Inc 3000 Arlington Blvd Falls Church Va Meridian Metalcraft Inc 8739 S Millergrove Dr Whittier Calif
Communication Accessories Communication Equipment & Eng'g Corp  Box 824 State College Pa  Community Eng'g Corp  Box 824 State College Pa  Continuity Eng'g Corp  Box 826 State College Pa  Continuity Eng'g Corp  Box 827 State College Pa  Continuity Eng'g Corp  Box 826 State College Pa  Continuity Eng'g Corp  Box 827 State College Pa  Continuity Eng'g Corp  Box 826 State College Pa  Continuity Eng'g Corp  Box 827 State College Pa  Continuity Eng'g Corp  Box 828 State College Pa  Continuity Eng'g Corp  Box 829 State College Pa  Continuity Eng'g Corp  Box 826 State College Pa  Continuity Eng'g Corp  Box 827 State College Pa  Continuity Eng's Corp  Box 828 State College Pa  Continuity Eng's Corp  Box 829 State College Pa  Continuity Eng's Corp  Box 826 State College Pa  Corbin Corp  5419 56 Pl Riverdale Md  1-3-4-26  Corpin Corp  5419 56 Pl Riverdale Md  Corpell-Dubiller Electric Corp  333 Hamilton Blvd  2-3-4-7-9-10-11-15-  S Plainfield NJ  16-18-19-21-22-26  Cycle Transformer Corp  356 Glenwood Ave E Orange 11 NJ 2-3-4-11  Dallons Labs  5066 Santa Monica Blvd  Los Angeles 29 Calif  DeCoursey Eng'g Lab  11828 W Jefferson Blvd  Culver City Calif  2-3-4-6-7-11-20  Defiance Eng'g & Microwave Corp  Beverly Airport  Beverly Mass  1-3-13-18-22-23-24-26	Femco   Inc   Irwin   Pa   2	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-2-3-7-8-9-11-18-21-2 Lewis Co E B 11 Bragg St E Hartford 8 Conn Lieco Inc 3610 Oceanside Rd Oceanside LI NY 1 Ling Electronics Inc 5120 W Jefferson Blvd Los Angeles 16 Calif 2-3-4-6-1 Link-Radio Corp 110 Jericho Turnpike New Hyde Park LI NY 2 Lynch Carrier Systems Inc 695 Bryant St San Francisco 7 Calif 3-4-10-1 Lynmar Engineers Inc 1432 N Carlisle St Philadelphia 21 Pa 1-2-4-6-7-9-1 Lysco Mfg Co 1401 Clinton St Hoboken NJ 1 McCoy Electronics Co Chestnut & Watts Sts Mt Holly Springs Pa Mack Electronics Div Mack Trucks Inc 1120 S 2 St Plainfield NJ Maryland Electronic Mfg Corp 5009 Calvert Rd College Park Md 13-1 Measurement Eng'g Ltd 232 John St Arnprior Ontario Can 2-3-4-7-1 Melpar Inc 3000 Arlington Blvd Falls Church Va Meridian Metalcraft Inc 8739 S Millergrove Dr Whittier Calif 1 Merit Coil & Transformer Corp
London S E 26 England   21	Femco   Inc   Irwin   Pa   Pattern   Irwin   Pa   Pattern   Colver   City   Calif   13-15-16-18-19-20   Filtron   Co   130-23   W   Jefferson   Blvd   1-3-4-78-9-10-11-Culver   City   Calif   13-15-16-18-19-20   Filtron   Co   131-15   Fowler   Ave   1-3-7-9-10-11-15   Flushing   55   NY   16-18-19-22-23   Fisher   Radio   Corp   21-21   44   Dr   Long   Island   City   1 NY   2-6-14   Foster   Transformer   Co   3820   Colerain   Ave   Cincinnati   23   Ohio   3-10-11   Foto-Video   Labs   Inc   25   Amity   St   Little   Falls   NJ   21-25   F-R   Machine   Works   Inc   Electronic & X-Ray   Div   26-12   Borough   Pl   Woodside   77   NY   13   Freed   Transformer   Co   1718-36   Weirfield   St   Brooklyn   27   NY   7-11-20   Frequency   Standards   Inc   P   O   Box   504   Asbury   Park   NJ   1-3-4-13-18   Fugle-Miller   Labs   Inc   301   Central   Ave   Clark   NJ   1-3-6-7-8-11-18-22-25   Gabriel   Electronics   Div   Gabriel   Co   135   Crescent   Rd   Needham   Heights   94   Mass   1   Gates   Radio   Co   123   Hampshire   St   Quincy   Ill   2-18-24   General   Bronze   Corp   711   Stewart   Ave   Garden   City   NY   1-11-13   General   Communication   Co   677   Beacon   St   Boston   I5   Mass   13   General   Crystal   Co   P   O   Box   9   Burlington   Wis   5   General   Crystal   Co   P   O   Box   9   Burlington   Wis   5   General   Precision   Lab   Inc   63   Bedford   Rd   Pleasantville   NY   13   General   Radio   Co   275   Massachusetts   Ave   Cambridge   39   Mass   2-3-22   Geotronic   Labs   Inc   1314   Cedar   Hill   Ave   Dallas   8   Texas   3-7-11   Glaser-Steers   Corp   Co	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-2-3-7-8-9-11-18-21-2 Lewis Co E B 11 Bragg St E Hartford 8 Conn Lieco Inc 3610 Oceanside Rd Oceanside LI NY 1 Ling Electronics Inc 5120 W Jefferson Blvd Los Angeles 16 Calif 2-3-4-6-1 Link-Radio Corp 110 Jericho Turnpike New Hyde Park LI NY 2 Lynch Carrier Systems Inc 695 Bryant St San Francisco 7 Calif 3-4-10-1 Lynmar Engineers Inc 1432 N Carlisle St Philadelphia 21 Pa 1-2-4-6-7-9-1 Lysco Mfg Co 1401 Clinton St Hoboken NJ 1 McCoy Electronics Co Chestnut & Watts Sts Mt Holly Springs Pa Mack Electronics Div Mack Trucks Inc 1120 S 2 St Plainfield NJ Maryland Electronic Mfg Corp 5009 Calvert Rd College Park Md 13-1 Measurement Eng'g Ltd 232 John St Arnprior Ontario Can 2-3-4-7-1 Melpar Inc 3000 Arlington Blvd Falls Church Va Merit Coil & Transformer Corp 4227 N Clark St 2-3-7-8-9-1
London S E 26 England   21	Femco Inc Irwin Pa	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-2-3-7-8-9-11-18-21-2 Lewis Co E B 11 Bragg St E Hartford 8 Conn Lieco Inc 3610 Oceanside Rd Oceanside LI NY 1 Ling Electronics Inc 5120 W Jefferson Blvd Los Angeles 16 Calif 2-3-4-6-1 Link-Radio Corp 110 Jericho Turnpike New Hyde Park LI NY 2 Lynch Carrier Systems Inc 695 Bryant St San Francisco 7 Calif 3-4-10-1 Lynmar Engineers Inc 1432 N Carlisle St Philadelphia 21 Pa 1-2-4-6-7-9-1 Lysco Mfg Co 1401 Clinton St Hoboken NJ 1 McCoy Electronics Co Chestnut & Watts Sts Mt Holly Springs Pa Mack Electronics Div Mack Trucks Inc 1120 S 2 St Plainfield NJ Maryland Electronic Mfg Corp 5009 Calvert Rd College Park Md 13-1 Measurement Eng'g Ltd 232 John St Arnprior Ontario Can 2-3-4-7-1 Melpar Inc 3000 Arlington Blvd Falls Church Va 1 Meridian Metalcraft Inc 8739 S Millergrove Dr Whittier Calif Merit Coil & Transformer Corp 4427 N Clark St 2-3-7-8-9-1 Chicago 40 Ill 11-16-18-21-25-2
London S E 26 England   21	Femco Inc Irwin Pa  Filtron Co  10023 W Jefferson Blvd  1-3-4-7-8-9-10-11- Culver City Calif  Filtron Co  131-15 Fowler Ave  13-15-16-18-19-20  Filtron Co  131-15 Fowler Ave  16-18-19-22-23  Fisher Radio Corp  21-21 44 Dr Long Island City 1 NY 2-6-14  Foster Transformer Co  3820 Colerain Ave Cincinnati 23 Ohio  Foto-Video Labs Inc  25 Amity St Little Falls NJ  F-R Machine Works Inc Electronic & X-Ray Div 26-12 Borough Pl Woodside 77 NY  13  Freed Transformer Co  1718-36 Weirfield St Brooklyn 27 NY 7-11-20  Frequency Standards Inc  P O Box 504 Asbury Park NJ  1-3-4-13-18  Fugle-Miller Labs Inc  301 Central Ave Clark NJ  Clark NJ  Cabriel Electronics Div Gabriel Co  135 Crescent Rd Needham Heights 94 Mass 1  Gates Radio Co  123 Hampshire St Quincy Ill  General Bronze Corp  711 Stewart Ave Garden City NY  1-11-13  General Communication Co  677 Beacon St Boston 15 Mass  13  General Crystal Co  P O Box 9 Burlington Wis  General Instrument Corp  65 Gouveneur St Newark NJ  General Radio Co  275 Massachusetts Ave Cambridge 39 Mass  2-3-22  Geotronic Labs Inc  1314 Cedar Hill Ave Dallas 8 Texas  3-7-11  Glaser-Steers Corp  20 Main St Belleville 9 NJ  Goslin Electric & Mfg Co	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-2-3-7-8-9-11-18-21-2 Lewis Co E B 11 Bragg St E Hartford 8 Conn Lieco Inc 3610 Oceanside Rd Oceanside LI NY 1 Ling Electronics Inc 5120 W Jefferson Blvd Los Angeles 16 Calif 2-3-4-6-1 Link-Radio Corp 110 Jericho Turnpike New Hyde Park LI NY 2 Lynch Carrier Systems Inc 695 Bryant St San Francisco 7 Calif 3-4-10-1 Lynmar Engineers Inc 1432 N Carlisle St Philadelphia 21 Pa 1-2-4-6-7-9-1 Lysco Mfg Co 1401 Clinton St Hoboken NJ 1 McCoy Electronics Co Chestnut & Watts Sts Mt Holly Springs Pa Mack Electronics Div Mack Trucks Inc 1120 S 2 St Plainfield NJ Maryland Electronic Mfg Corp 5009 Calvert Rd College Park Md 13-1 Measurement Eng'g Ltd 232 John St Arnprior Ontario Can 2-3-4-7-1 Melpar Inc 3000 Arlington Blvd Falls Church Va 1 Meridian Metalcraft Inc 8739 S Millergrove Dr Whittier Calif 1 Merit Coil & Transformer Corp 4427 N Clark St 2-3-7-8-9-1 Chicago 40 III 11-16-18-21-25-2
Cleng Labs Div Clegg Inc   Ridgedale Ave   1-3-4-7-9-11-	Femco Inc Irwin Pa	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 2-3-4-6-7-1 LaPointe Industries Inc 155 W Main St Rockville Conn 1-3-2 Lear Inc 3171 S Bundy Drive Santa Monica Calif 1- Leonard Electric Products Co 67 34 St Brooklyn 32 NY 1-2-3-7-8-9-11-18-21-2 Lewis Co E B 11 Bragg St E Hartford 8 Conn Lieco Inc 3610 Oceanside Rd Oceanside LI NY 1 Ling Electronics Inc 5120 W Jefferson Blvd Los Angeles 16 Calif 2-3-4-6-1 Link-Radio Corp 110 Jericho Turnpike New Hyde Park LI NY 2 Lynch Carrier Systems Inc 695 Bryant St San Francisco 7 Calif 3-4-10-1 Lynmar Engineers Inc 1432 N Carlisle St Philadelphia 21 Pa 1-2-4-6-7-9-1 Lysco Mfg Co 1401 Clinton St Hoboken NJ 1 McCoy Electronics Co Chestnut & Watts Sts Mt Holly Springs Pa Mack Electronics Div Mack Trucks Inc 1120 S 2 St Plainfield NJ Maryland Electronic Mfg Corp 5009 Calvert Rd College Park Md 13-1 Measurement Eng'g Ltd 232 John St Arnprior Ontario Can 2-3-4-7-1 Melpar Inc 3000 Arlington Blvd Falls Church Va 1 Meridian Metalcraft Inc 8739 S Millergrove Dr Whittier Calif Merit Coil & Transformer Corp 4427 N Clark St 2-3-7-8-9-1 Chicago 40 Ill 11-16-18-21-25-2

		Warran R. Co. Cooper
Microlab Okner Pkwy	Ross Mfg Co 2538 Peterson Ave	Voron & Co George 835 N 19 St
Livingston NJ 1-3-4-7-9-10-11-13-18-21-22-23	Chicago 45 Ill 1-2-8-18-21-22-25-26	Philadelphia 39 Pa 2-3-5-6-7-9-10-11-14-15-16 Walsco Electronics Mfg Co
Microphase Corp Box 1166	Royal Communication Systems 11462 Euclid Ave Cleveland 6 Ohio 1	100 W Green St Rockford Ill
Greenwich Conn 1-3-4-7-9-11-13-16-18-22-23	RS Electronics Corp	Waveline Inc
Microtran Co 145 E Mineola Ave	435 Portage Ave Palo Alto Calif 8 Sage Labs Inc	Passaic Ave Caldwell NJ Westbury Electronics Inc
Valley Stream NY 2-3-10-20	30 Guinan St	300 Shames Dr
Microwave Associates Inc Burlington Mass 13	Waltham 54 Mass 1-3-4-7-11-13-22 Sanders Associates	Westbury NY 7-10-11-18-21-22 Western Electro Acoustic Lab Inc
Microwave Development Labs	95 Canal St Nashua N H 13	11789 San Vicente Blvd
92 Broad St Babson Park 57 Mass 7-11-12-13 Miller Co J W	San Fernando Electric Mfg Co 1509 1 St San Fernando Calif 15-16-18	Westrex Corp
5917 S Main St 1-2-3-4-5-7-8-9-10-11-14-15-16	Saratoga Industries	111 8 Ave New York 11 NY 2-6-7-11-23
Los Angeles 3 Calif 17-18-20-21-22-23-26	Congress & Ballston Aves Saratoga Springs N Y 2-20	Wheeler Insulated Wire Co 150 E Aurora St Waterbury 20 Conn 2
Milwaukee Transformer Co 5231 W Hopkins St	Scientific Radio Products Inc	Wheeler Labs Inc
Milwaukee 12 Wis 2-3-7-11	215 S 11 St Omaha Nebr 3-4-5-13 Scott Inc H H	122 Cutter Mill Rd Great Neck NY 13 White Instrument Labs
Minneapolis-Honeywell Regulator Co Davies Labs Div 10721 Hanna St	385 Putnam Ave Cambridge 39 Mass 14-15	Box 9006 Allandale Station
Beltsville Md 3-11	Servomechanisms Inc 12500 Aviation Bldg Hawthorne Calif 2	Wind Turbine Co
Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport	Sierra Electronic Corp	E Market St & P R R W Chester Pa 1
Mineral Wells Texas 16	3885 Bohannon Dr Menlo Park Calif 11-22 Sigmadyne of Conn	Wyeth Eng'g Inc 9911 Walden Pkwy
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 13	P O Box 869 Port Chester NY 3-4-6-7-11-20	Chicago 43 Ill 3-4-9-10-16-18-19
Mohawk Business Machines Corp	Southwestern Industrial Electronics Co 2831 Post Oak Rd Houston 19 Texas 2-3	27—GAGES
944 Halsey St Brooklyn 33 NY 2-3-4-10-11 Muirhead Instruments Inc	Spencer-Kennedy Labs Inc	Z/—GAGES
677 5 Ave New York 22 NY 23	1320 Soldiers Field Rd Boston 35 Mass 2-3-4-7-11-18-21-23-26	Gages, ionization ]
Nagog Associates Inc	Sperry Gyroscope Co Div Sperry Rand Corp	Gages, pirani
Littleton Mass 2-3-4 Narda Corp	Great Neck NY 1-13	Gages, pressure 3
160 Herricks Rd Mineola NY 13	Sprague Electric Co Marshall St North Adams Mass 15-16	Gages, strain 4 Gages, temperature 5
National Aircraft Corp Electronics Div 3411 Tulare Ave Burbank Calif 2-4	Stancil-Hoffman Corp	Gages, tension
National Capacitor Co	921 N Highland Ave Hollywood 38 Calif 6-7-11	Gages, thickness 7
18 Webster St Brookline 46 Mass 3-4-7-9-10-11-15-16	Standard Crystal Co	Gages, vacuum 8
National Coil Co	1714 Locust St Kansas City Mo 3-4-5-20 Standard Electronics Div Radio Eng*g Labs	Gages, wire 9
P O Box 1237 Sheridan Wyo 2-3-4-7-8-11-18	30 & Borden Sts	Aloe Scientific
New York Transformer Co	Long Island City NY 1-3-4-7-11-22 Stewart Warner Electronics Div	5655 Kingsbury Blvd St Louis 12 Mo 3-5-8
3 Ave Alpha NJ 2-3 N J E Corp	1300 N Kostner Ave Chicago 51 Ill 15-24	American Instrument Co 8030 Georgia Ave Silver Spring Md 4-7
345 Carnegie Ave	Superex Electronics Corp 4 Radford Pl	Allegany Instrument Co
Kenilworth NJ 2-3-4-7-10-11 NYT Electronics Inc	Yonkers N Y 1-3-4-7-9-10-11-16-18-21-23-26	1091 Wills Mountain Cumberland Md 4 Amthor Testing Instrument Co
2979 N Ontario St	Telechrome Mfg Corp 28 Ranick Dr	45 Van Sinderen Ave Brooklyn 7 NY 7-8
Burbank Calif 2-3-4-7-8-11-13-18-20 Ortho Filter Corp	Amityville L I N Y 3-4-5-7-11-18-21-24-25	Anton Electronic Labs
196 Albion Ave 1-2-3-4-5-6-7-8-9-10-11-14-15	Telectro Industries Corp 35-18 37 St Long Island City 1 N Y 3-5	Arlin Products Inc
Paterson 2 NJ 16-18-19-20-21-22-24-26 Packard-Bell Electronics Corp	Telegraph Condenser Co	13541 Auburn Ave Detroit 23 Mich 7
12333 W Olympic Blvd	N Acton London W 3 England 7-9-10-11-15-16-21	Arnoux Corp 11924 W Washington Blvd
Los Angeles 64 Calif 7-10-11-15 Palmer Inc M V	Telematic Industries Inc	Los Angeles 66 Calif 5
4002 Fruit Valley Rd	16 Howard Ave Brooklyn 7 N Y 1-9-10-21	Baldwin-Lima-Hamilton Corp Electronics & Instrumentation Div
Vancouver Wash 3-7-10-11	Televiso Corp 1415 Golf Rd	42 4 Ave Waltham 54 Mass 4
Peerless Electrical Products 1515 S Manchester Ave	Des Plaines III 3-4-7-9-10-11-15-16-18	Barton Electronics Inc 1000 Farmington Ave W Hartford 7 Conn 7
Anaheim Calif 2-3-4-5-6-7-11	Telex 1633 Eustis St St Paul 1 Minn 2	Bendix Aviation Corp Pacific Div
Penn-East Eng'g Corp Willow St Kutztown Pa 3-4-7-11	Telkor Inc	11600 Sherman Way N Hollywood Calif 3 B J Electronics Borg-Warner Corp
Pittsburgh Coil Co	N Murray Ridge Rd Elyria Ohio 16 Texas Instruments Inc	3300 Newport Ave Santa Ana Calif 3-5
Box 700 Carnegie Pa 7-9-10-16 Polarad Electronics Corp	Industrial Instrumentation Div	Boonton Radio Corp
43-20 34 St Long Island City 1 NY 13	3609 Buffalo Speedway Houston 6 Texas 15 Thale Eng'g Corp	Branson Instruments Inc
Polyphase Instrument Co E 4 St Bridgeport Pa 2-3-4-7-8-10-11-18-20	2104 E Villa St Pasadena Calif 7-9-16	37 Brown House Rd Stamford Conn 7
Potter Co	Thermador Electronics Div Norris- Thermador Corp 2000 S Camfield Ave	Bristol Co P O Box 1790 EITT
1950 Sheridan Rd N Chicago Ill 3-4-9-10-15-16-18-19-20	Los Angeles 22 Calif 2-3-4-7-11	Waterbury 20 Conn 3-4-5-8
Premier Instrument Corp	Topp Industries Inc 5255 W 102 St Los Angeles 45 Calif 1	Brush Electronics Co Div Clevite Corp 3405 Perkins Ave Cleveland 14 Ohio 4
52 W Houston St New York 12 NY 13 Pulse Techniques Inc	Torwico Electronics Inc	Canadian Aviation Electronics Ltd
1411 Palisade Ave	1090 Morris Ave Union N J 7-11 Transformer Technicians Inc	6214 Cote de Liesse Rd St Laurent Quebec Canada 4
W Englewood N J 2-3-6-7-11-14-23 Pye Telecommunications Ltd	2608 N Cicero Ave	Central Electronic Mfrs Inc
Newmarket Rd 1-2-3-4-5-7-8-	Chicago 39, Ill 2-3-4-6-10-11	Sub Nuclear Corp of America 2 Richwood Pl Denville NJ 8
Cambridge England 9-10-11-13-18 Radar Design Corp	Transformers Inc 200 Stage Rd Vestal N Y 2-3-4-7-11	Central Scientific Co of Calif
210 5 Ave New York 16 N Y 13-18-22	Transonic Inc	1040 Martin Ave Santa Clara Calif Cerro De Pasco Sales Corp
Radio Corp of America Commercial Electronic Products Camden 2 NJ 6-12	808	300 Park Ave New York 22 NY
Electronic Products Camden 2 NJ 6-12 Radio Eng'g Products Ltd	United Electrodynamics	Chesapeake Instrument Corp Shadyside Md
1080 University St	1200 S Marengo Ave Pasadena Calif 20	Chicago Aerial Industries Inc
Montreal 3 Quebec Canada 3-4-6-7-10-11 Radio Frequency Labs Inc	United Transformer Corp Pacific Div 4008 W Jefferson Blvd	1980 N Hawthorne Ave Melrose Park Ill 7
Boonton N J 2-3-7-11-20	Los Angeles 16 Calif 2-3-4-6-7-10-11	Cleveland Instrument Co 735 Carnegie Ave Cleveland 15 Ohio 7
Radio Industries Inc 5225 N Ravenswood Ave Chicago 25 Ill 8	United Transformer Corp 150 Varick St 2-3-4-6-	Consolidated Avionics Corp
Rayco Electronic Mfg Inc	New York 13 NY 7-11-13-16-18-20-23-24	66 Brooklyn Ave Westbury NY 7 Consolidated Electrodynamics Corp
11116 Cumpston St N Hollywood Calif 2-3-4-7-11	Uniwave Inc 2 Marine St Farmingdale NY 8-13-18-22	300 N Sierra Madre Villa
Raytheon Mfg Co Commercial Equip Div	U S Electronics Corp.	Pasadena Calif 1-2-3-8 Consolidated Electrodynamics Corp
100 River St. Waltham 54 Mass 18 Reed & Reese Inc	278 Warren St	Rochester Div 1775 Mt Read Blvd
717 N Lake Ave Pasadena 6 Calif 3-7-11	Lyndhurst NJ 1-8-9-10-11-16-18 Vanguard Electronics Co	Rochester 4 NY 1-2-8 Crescent Eng'g & Research Co
Regency Div Idea Inc 7900 Pendleton Pike Indianapolis 26 Ind 7	3384 Motor Ave	5440 N Peck Rd El Monte Calif 3-4-7
Richardson Labs Kenneth	Los Angeles 34 Calif 3-4-7-8-11-18-26 Varo Mfg Co	Curtiss-Wright Corp Electronics Div 631 Central Ave Carlstadt NJ 7
254 Vincent Ave Lynbrook N Y 11 Riverbank Labs Eng'g Dept	2201 Walnut St Garland Texas 3	Custom Scientific Instruments Inc
P O Box 65 Geneva III 12	Vectron Inc 1611 Trapelo Rd Waltham 54 Mass 13	541 Devon St Kearny NJ 7
Rixon Electronics Inc 2414 Reedie Dr Silver Spring Md 2-3-4-5-18	Vidaire Electronics Mfg Corp	Decker Aviation Corp 1361 Frankford Ave Philadelphia_25 Ill 3
Robbins Aviation	576 W Merrick Rd	Defender Instrument & Regulator Co
1735 W Florence Ave Los Angeles 47 Calif 12	Lynbrook NJ 1-7-8-9-10-11-16-18-21-26 Virginia Electronics Co	Boody Ill Detroit Controls Corp Norwood Controls
RK Mfg Co	River Rd & B & O R R	Unit 934 Washington St
P O Box 112 Marion III 2-3-4-7-11	Washington 16 DC 2-4-9-10-11-16	Norwood Mass 4

16 Highland Ave Englewood NJ	Opto Eng'g Co 3524 W Washington Blvd	Couplings, shatt, rigid 22
Edcliff Instruments	Los Angeles 18 Calif 4-7	Diaphragms 23
1711 S Mountain Ave Monrovia Calif	Pacific Transducer Corp	Diecastings
Edison Industries Thomas A	11836 W Pico Blvd	Dowels
Instrument Div 93 Lakeside Ave W Orange NJ	Los Angeles 64 Calif 3-4 B Panellit Inc	Extensions, shaft 26
Eitel-McCullough Inc	7401 N Hamlin Ave Skokie Ill 3	Eyelets
798 San Mateo Ave San Bruno Calif	Philips Electronics Inc	Fasteners
Electronics Corp of America	750 S Fulton Ave Mt Vernon NY 7	Felt parts 29
1 Memorial Dr Cambridge 42 Mass Ellison Draft Gage Co	Photocon Research Products	Gaskets 30
548 W Monroe St Chicago 6 Ill 3-	421 N Altadena Drive Pasadena Calif 3 Process & Instruments	Gears, precision
Endevco Corp	15 Stone Ave Brooklyn 33 NY 1-8	Grommets 32
161 E California St Pasadena Calif 3-4-	Quality Control Corp	Handles 33
Ercona Corp 551 5 Ave New York 17 NY	401 Broadway New York 13 NY 4-5-6-7 Research Electronics Lab	Hardware, electronic 34
Federal Products Corp	Research Electronics Lab Roslyn Pa 1-8	Hinges 35
1144 Eddy St Providence 1 RI	Royco Instruments	Latches, magnetic 36
Fischer & Porter Co	720 Arthur St Albany Calif 5	Locknuts
478 Warminster Rd Hatboro Pa 3-5- Gardner Lab Inc		Locks
P O Box 5728 Bethesda 14 Md	200 Lafayette St New York 12 NY 6-7-9 Scientific Glass Apparatus Co	Markers, code
General Controls Co	100 Lakewood Terrace Bloomfield NJ 1-2-3-8	Mirrors 40
801 Allen Ave Glendale 1 Calif 3-5-	Seneca Falls Machine Co	Mounst, shockproof 41
General Electric Co Apparatus Sales Div 1 River Rd	314 Fall St Seneca Falls NY 8 Servo-Recording Instruments Inc	Mounst, vibration 42
Schenectady 5 NY 4-7-	1815 W Van Buren St Phoenix Ariz 1	Nails 43
General Electric Co X-Ray Dept	Sheffield Corp	Nuts 44
4855 Electric Ave Milwaukee 1 Wis General Electric Co Ltd of England	Box 893 Dayton 1 Ohio	Pins 45
c/o IMTRA Corp 58 Charles St	Sierra Electronic Corp	Plugs 46
	3885 Bohannon Dr Menlo Park Calif Size Control Div American Gage &	Reducers, shaft 47
Giannini & Co G M	Machine Co 2500 W Washington Blvd	Rivets
918 E Green St Pasadena Calif Hagan Chemicals & Controls Inc	0ougo -= 111	Screw machine products 49
Hagan Bldg Pittsburgh 30 Pa 3-	Sperry Products Inc	Screws, self-tapping 50
Hamilton Watch Co Allied Products	Shelton Rock Rd Danbury Conn 7 Standard Gage Co	Screws, set
Div Columbia Ave	Poughkeepsie NY	Screws, standard 52
Lancaster Pa	Statham Labs Inc	Shafts, flexible
Harshaw Chemical Co 1945 E 97 St Cleveland 6 Ohio 3-5-	12401 W Olympic Blvd	
Hastings-Raydist Inc	I.os Angeles 64 Calif 3-4 Stokes Corp F J	Shafts, rigid 54
Newcomb Ave Hampton Va 3-	5500 Tabor Rd Philadelphia 20 Pa 8	Slides, equipment 55
Hathaway Instrument Div Hamilton	Sylvania Electric Products Inc	Spacers 56
Watch Co 5800 E Jewell Ave Denver 22 Colo	1740 Broadway New York 19 NY 1	Springs 57
Hays Corp	Tatnall Measuring Systems Co Kimberton Rd Phoenixville Pa 4	Stampings 58
Michigan City Ind 8-	Tracerlab Inc	Strain reliefs
High Vacuum Equipment Corp	1601 Trapelo Rd Waltham 54 Mass 7	Washers, brass 60
2 Churchill Rd Hingham Mass Hill & Co E Vernon	Trimount Instrument Co	Washers, ceramic
P O Box 189 Lake Geneva Wis 8-	3119 W Lake St Chicago 12 III 3-8 Ultradyne Eng'g Labs	Washers, felt 62
Hull Corp	P O Roy 3308 Albuquerque New Mey 3	Washers, fibre
	Uniwave Inc	Washers, lock
Illinois Testing Labs Inc 420 N LaSalle St Chicago 18 Ill	2 Marine St Farmingdale NY 7	Washers, metal
Industrial Nucleonics Corp	U S Gauge Div American Machine & Metals Sellersville Pa 3-5	Washers, mica 66
	Vacuum-Electronic Eng'g Co	Washers, plastic 67
Instrumentation Associates 17 W 60 St New York 23 NY	86 Denton Ave New Hyde Park LI NY 1-8	Washers, rubber 68
I Q Industries	vacuum Specialties Co	Wire mesh
1714 Westwood Blvd Los Angeles 24 Calif 3-	77 Prospect St Somerville Mass 8 Vacuum Tube Products Co	
Isotope Products	506 S Cleveland St Oceanside Calif 8	Abalon Precision Mfg Corp
1711 Elmwood Ave Buffalo 7 NY Jan Hardware Mfg Co	Van Keuren Co	540 Casanova St New York 59 NY 4-5-5
	. 176 Waltham St Watertown 72 Mass 7-9	Accurate Electronics Corp 169 S Abbe Rd W
King Electric Equipment Co	Vapor Recovery Systems Co 2820 N Alameda St Compton Calif 5	Elyria Ohio 21-22-46-58-60-63-65-6
9123 Inman Ave Cleveland 5 Ohio	Weksler Thermometer Corp	Accurate Spring Mfg Co
Kinney Mfg Co Div Vacuum Equip Div NY Air Brake Co	195 E Merrick Rd Freeport LI NY 3-5-8	3811 W Lake St Chicago 24 III 57-5
3529 Washington St Boston 30 Mass 1-2-	West Coast Research Corp	Ace Plastic Co 91-30 VanWyck Expwy
Kistler Instrument Corp	2371½ Westwood Blvd Los Angeles 64 Calif 3-4-5	Jamaica 35 NY 7-33-49-66-6
15 Webster St N Tonawanda NY	West Instrument Corp	Ace Spring Mfg Co
Kollsman Instrument Corp Standard Coil Products Sub 80-08 45 Ave	4363 W Montrose Ave Chicago 41 Ill 5	78 W Houston St New York 12 NY 5
Elmhurst 73 NY	Weston Electrical Instrument Corp	Acme Mfg & Gasket Co 738 N 41 St
Lewis Eng'g Co	Newark 12 NJ 3-5-8	Philadelphia 4 Pa 30-60-62-65-67-6
339 Church St Naugatuck Conn	Wiencko Eng'g Co	Acromark Co
Link Aviation Inc Binghamton NY	255 Halstead St. Pasadena Calif 3-6	443 Morrell St Elizabeth 4 NJ Adel Precision Products Div General
Lufkin Rule Co		Metals Corp 1444 Washington Ave
1730 Hess St Saginaw Mich	28—HARDWARE	Huntington 4 W Va
Manning Maxwell & Moore Inc		Advanced Products Co
Shelter Rock Lane Danbury Conn 3-5-	Balls, screw 1	59 Broadway North Haven Conn 3 Advance Electronics Co
Marshalltown Mfg Co	Regrings 2	8510 North End Ave
810 E Nevada St Marshalltown Iowa 3-5-5 Martindale Electric Co	Bolts 3	Oak Park 37 Mich 49-57-5
Box 617 Edgewater Branch	Brackets 4	Aeroflex Labs
Cleveland 7 Ohio		34-06 Skillman Ave Long Island City 1 NY 4
Millers Falls Co	Bushings, hermetically sealed 6	Aerolite Electronics Corp
57 Wells Greenfield Mass	Bushings, non-metallic 7	507 26 St
Moeller Instrument Co	Cons	Union City NJ 4-12-15-16-26-32-34-5
132-02 89 Ave Richmond Hill 18 NY New York Air Brake Co	Casters 9	Aerotron Supply Co 8504 S Normandie Ave
230 Park Ave New York 17 NY	•	Los Angeles 44 Calif 44-49-50-51-52-60-64-6
Norden-Ketay Corp	Clamps, tube	Aetna Felt Co
Commerce Rd Stamford Conn 3-8	Clips, alligator	204 Centre St New York 13 NY 29-30-6
North American Intruments Inc	Clips, crystal diode 13	Aircraft Radio Corp Boonton NJ
2420 N Lake St Altadena Calif	Clips, fahnstock 14	Air Transport Mfg Co
NRC Equipment Corp Sub National Research Corp 160 Charlemont St	Clips, grid	1114 N Sycamore Ave
Newton Highlands 61 Mass		Los Angeles 38 Calif 4-5-10-41-42-5
Nuclear Corp of America	CIIDS. SDriper	
		Airtron Inc
Empire State Bldg New York NY 1-7	Clips, test	1101 W Elizabeth Ave Linden NJ 30
Empire State Bldg New York NY Nucleonic Corp of America	Clips, test	
Empire State Bldg New York NY Nucleonic Corp of America 196 Degraw St Brooklyn 31 NY	Clips, test	1101 W Elizabeth Ave Linden NJ Akron Rubber Co 53 Warren St New York 7 NY Alden Products Co
Empire State Bldg New York NY Nucleonic Corp of America	Clips, test       17         Contact points       18         Cords & tape, lacing       19         Couplings       20	1101 W Elizabeth Ave Linden NJ Akron Rubber Co 53 Warren St New York 7 NY 30

Allen Mfg Co	Barnes Co Wallace Div Associated	Conn Hard Rubber Co
100 Sheidon St Hartford 2 Conn 51	Spring Corp	P O Box 1911 New Haven 9 Conn 30-42
Allied Engraving & Stamping Co	Bristol Conn 57	Conn Telephone & Electric Corp
Allied Fabricating Corp	Bead Chain Mfg Co 110 Mountain Grove St	Continental Diamond Fibre Corp
1538 N Clybourn Ave	Bridgeport 5 Conn 25-28-45-46	Newark Dela
Chicago 10 III 4-5-8-10-60-63-65-67	Beaver Gear Works	Continental Electronic Ltd
Allmetal Screw Products Co 821 Stewart Ave 3-25-28-34-37-43-44-45	1025 Parmele St Rockford I'll 31	302 Oakland St Brooklyn 22 N 1
	Beckman/Helipot Corp	Continental Screw Co New Bedford Mass 44-50-52
Garden City NY 48-49-50-51-52-64-65 Alpha Metals Inc	Newport Beach Calif 10-16-31-34 Belmont Smelting & Refining Works	Corning Glass Works
56 Water St Jersey City 4 NJ 65	330 Belmont Ave Brooklyn 7 NY 24-30-65	Corning NY 6-7
Aluminum Co of America	Belock Instrument Corp	Crane Packing Co
Alcoa Bidg	111-01 14 Ave College Point 56 NY 31	6400 Oakton St Morton Grove and
Pittsburgh 19 Pa 2-3-24-49-50-51-52-58-65 Alvo Nut & Bolt Co	Bendix Aviation Corp	Crystalx-Westlake Corp. Lenni Rd Lenni Mills Pa 63-67
1601 Grande Vista Ave	1104 Fisher Bldg Detroit 2 Mich 23 Bendix Foundries Div Bendix Aviation	Custom Gast Co
Los Angeles 23 Calif 3-44-50-51-52-65	Corp Teterboro NJ 24	648 College St South Bend 28 Ind 31
American Hinge Corp	Bernard Franklin Co	Daco Instrument Co Tillary & Prince Sts Brooklyn 1 NY 31
206 Wallabout St Brooklyn 6 NY 49	4155 E Hedley St Philadelphia 37 Pa 55	
American Hoist & Derrick Co 63 S Robert St St Paul 1 Minn 3	Bestcraft Products Co	6641 Crenshaw Blvd Los Angeles 43 Calif 11
American Insulator Corp	626 Broadway New York 12 NY 29-30 Bethlehem Steel Co	Davies Molding Co Harry
New Freedom Pa 33_67	Bethlehem Pa 3	1428 N Wells St Chicago 10 III 33
American Lava Corp Subs Minn Mining	Bird & Co Richard H	Dazor Mfg Corp 4481 Duncan Ave St Louis 10 Mo 5
& Mig Cherokee Blvd & Mfrs Rd	1 Spruce St Waltham 54 Mass 2	Decatur Electronic Industries Corp
Chattanooga 5 Tenn 6-7-25-27-32-54-61 American Mica Radio Corp	Birnbach Radio Co	203 Orinoco Dr Brightwaters Ll NY 32
235 Parker Ave Manasquan NJ 63-66	145 Hudson St 7-10-11-12-14-16-17-19-20 New York 13 NY 21-22-34-37-46-53-59	Dewey & Almy Chemical Co 62 Whittmore Ave Cambridge 40 Mass 30
American Screw Co	Birtcher Corp Industrial Div	Diamonite Products Mfg Co
Willimantic Conn 50-52	4371 Valley Blvd Los Angeles 32 Calif 11	217 4 St NE Canton 2 Ohio
American Sealants Co	Blaco Mfg Co	Dimco-Gray Co
103 Woodbine St Hartford 6 Conn 37-14 American Silver Co	6541 Euclid Ave Cleveland 3 Ohio 58	207 E 6 St Dayton 2 Ohio 28-33
3607 Prince St Flushing 54 NY 18	Boots Aircraft Nut Corp Newtown Turnpike Norwalk Conn 37-14	Dollin Corp 636 S 21 St Irvington 11 NJ 24
American Super-Temperatures Wires Inc	Bowmar Instrument Corp	Dry Screen Process Inc
West Canal St Winooski Vt 19	2415 Pennsylvania St Ft Wayne Ind 31-47	1016 Madison Ave Pittsburgh 12 Pa 69
Amplex Div Chrysler Corp	Brady Co W H	D & S Mfg Co  424 Rurk Ave Ridgley Park Pa 34
P O Box 2718 Detroit 31 Mich 2-18-22-31-60-65	727 W Glendale Ave Milwaukee 9 Wis 39	424 Burk Ave Ridgley Park Pa 34 Du-Co Ceramics Co
Anchor Metal Co	Brainin Co C S 320 Washington St Mt Vernon NY 18	Box 278 Saxonburg Pa 61
966 Meeker Ave Brooklyn 22 NY 65	Brand & Co William	Dudek & Co R C
Anchor Plastics Co	41 North St Willimantic Conn 39	407 N Maple Dr Beverly Hills Calif 16-28-34-37-44-64
36-36 36 St Long Island City 6 NY 33-34-67 Anchor Specialty Mfg Co	Bristol Co P O Box 1790 EITT	Durable Rubber Products Co
Hollister Rd Teterboro NJ 17	Waterbury 20 Conn 23-25-28-49-51	609 W Lake St Chicago 6 Ill 30
Anti-Corrosive Metal Products Co	British Electronic Sales	Dynamic Gear Co 20 Merrick Rd Amityville LI NY 31
Castleton-on-Hudson NY 3-25-28-43-44-15-48	Box 132 Oakland Gardens 64 NY 6-11	Dzus Fastener Co
49-50-51-52-64-65-67 Arch Gear Works	British Industries Corp 80 Shore Rd Port Washington NY 55	Box 185 Babylon NY 28-32-57
97 Holmes St N Quincy Mass 31	Brush Nail Expansion Bolt Co	Eagle Electronics Corp P G Box 775 Meriden Conn 33-34
Arch Instrument Co	Greenwich Conn 28	P G Box 775 Meriden Conn 33-34 Eastern Specialty Co
101 Holmes St N Quincy Mass 31 Arco Transformer & Electric Corp	Buchanan Electrical Products Corp	3617 N 8 St Philadelphia 40 Pa 49
1602 S Hanna St Ft Wayne 5 Ind 58	225 Route 22 Hillside NJ 46 Cal-Connector Co	Eaton Mfg Co Reliance Dix 25 Charles Ave SE
Armstrong Cork Co	7360 Varna Ave N Hollywood Calif 46	Massillon Ohio 10-44-50-64
W Liberty St Lancaster Pa 29-30	California Chassis Co	Elastic Stop Nut Corp of America
Artisan Metal Works Co 11400 Madison Ave Cleveland 2 Ohio 5	5445 E Century Blvd Lynwood Calif 5 Cambridge Thermionic Corp	2330 Vauxhall Rd Union NJ 28-37-45
Art Wire & Stamping Co	445 Concord Ave	Elco Corp M St below Erie Ave
227 High St Newark 2 NJ 45	Cambridge 38 Mass 4-5-11-33-34	Philadelphia 24 Pa 46
Asheville-Schoonmaker Mica Co	Camcar Screw & Mfg Co Div Textron Inc	Elco Tool & Screw Corp
900 Jefferson Ave Newport News Va 66 Askania Regulator Co	600 18 Ave Rockford III 28-50-52	1800 Broadway Rockford Ill 50-52 Electrical Refractories Co
240 E Ontario St Chicago 11 III 23	Camloc Fastener Corp 22 Spring Valley Rd Paramus NJ 28	E Clark St E Palestine Ohio 61
Associated Eng'g Corp	Cardwell Co Allen D	Electrical Specialty Co
65 Kent St Brookline 46 Mass 12-17	97 Whiting St Plainville Conn 21	158 11 St San Francisco 3 Calif 2-19-39-63-66
Associated Mfg Co 4755 N Rockwell St Chicago 25 III 28-58	Central Screw Co	Electronic Coil Engineers Inc 5830 Main St Hollydale Calif
Associated Production Co	3501 Shields Ave Chicago 9 Ill 28-44-50-52 Ceramaseal Inc	Ellis & Sons George D
162 N Clinton St Chicago 6 Ill 49-58	P O Box 25 New Lebanon Center NY 6	4028 N American St Philadelphia 40 Pa 8
Associated Spring Co	Chase Brass & Copper Co	Elm Labs
1800 Clybourn Ave Chicago 14 Ill 57 Atlantic & Pacific Wire & Cable Co	236 Grand St 3-28-32-43-44-15	10 Washington Ave Hastings-on-Hudson NY 5
112-01 Northern Blvd E Elmhurst LI NY 69	Waterbury 20 Conn 48-49-52-60-64-65	Elzee Metal Products Co
Atlas E-E Corp	Chassis Trak Inc 525 S Webster Ave	775 39 St Brooklyn 32 NY 4-5-8-10-58
47 Prospect St Woburn Mass 11-13-16-49-78	Indianapolis 19 Ind 55	Emeloid Co 1239 Central Ave Hillside 5 NJ 67
Atlas Precision Products Co 3801 Castor Ave Philadelphia 24 Pa 31	Chicago Gasket Co	Emerson Plastic Corp
Atlas Screw & Specialty Co	1271 W North Ave Chicago 22 Ill 2-23-30-67	Seabury Ave & Butler Pl
450 Broome St 3-44-49-50-51	Chicago Rivet & Machine Co	Bronx 61 NY 7-23-32 Emerson-Sack Warner Corp
New York 13 NY 52-60-64-65	950 S 25 Ave Bellwood III 48	85 Washinigton St Somerville 43 Mass 58
Auburn Mfg Co	Chicago Screw Co Div Standard Screw Co	Enflo Corp
Stack St 23-29-30-32-56-58-60 Middletown Conn 61-62-63-65-66-67-68	2701 Washington Blvd Bellwood Ill 3-28-41-19-51-52	Rte 38 at Airport Circle
Auburn Spark Plug Co	Churchill Lighting Corp	Pennsauken 11 NJ 2-7-22-23-30-32-56-67 Engineering Co
89 York St Auburn NY 32-19	344 Franklin St	23 Wright St Newark 5 NJ 49
Audio Development Co	Melrose 76 Mass 5-34-42-58	Erca Tool Die & Stamping Co
2833 13 Ave S Minneapolis Minn 46 Augat Bros	Cinch Mfg Corp	19 Ash St Brooklyn 22 NY 58
33 Perry Ave Attleboro Mass 10-11-13-16	1026 S Homan Ave Chicago 24 Ill 5-11-13-15	Exact Eng'g Mfg Co P O Box 668 Oceanside Calif 31
Autel Electronics	Circon Component Co	Exacto Industries Inc
P O Box 225 Linden NJ 6	Santa Barbara Municipal Airport	8730 Santa Monica Blvd
Automatic & Precision Mfg Co 252 Hawthorne Ave Yonkers NY 23-52		
202 MANUSCHE AVE TURKEIS INT 40-02	Goleta Calif 34-48-52-60-63-64-65-67	Los Angeles 46 Calif 10-11-16
Autoscrew Co	Cleveland Wire Cloth & Mfg Co	E-Z-Hook Test Products 1536 Woodburn Ave Covington Ky 17
Autoscrew Co 216 W 18 St		E-Z-Hook Test Products 1536 Woodburn Ave Covington Ky Factory Enterprises Inc
Autoscrew Co 216 W 18 St New York 11 NY 3-28-44-51-52	Cleveland Wire Cloth & Mfg Co 3573 E 78 St Cleveland 5 Ohio 69 Clevite Harris Products Inc 6545 Carnegie Ave Cleveland 3 Ohio 7-41-42	E-Z-Hook Test Products 1536 Woodburn Ave Covington Ky Factory Enterprises Inc 3431 Butler St Pittsburgh 1 Pa 69
Autoscrew Co 216 W 18 St New York 11 NY 3-28-44-51-52 Avionics Ltd	Cleveland Wire Cloth & Mfg Co 3573 E 78 St Cleveland 5 Ohio 69 Clevite Harris Products Inc 6545 Carnegie Ave Cleveland 3 Ohio 7-41-42 Clowes Ceramic Corp	E-Z-Hook Test Products 1536 Woodburn Ave Covington Ky Factory Enterprises Inc
Autoscrew Co 216 W 18 St New York 11 NY 3-28-44-51-52	Cleveland Wire Cloth & Mfg Co 3573 E 78 St Cleveland 5 Ohio 69 Clevite Harris Products Inc 6545 Carnegie Ave Cleveland 3 Ohio 7-41-42 Clowes Ceramic Corp 3711 Calhoun Ave Chattanooga 7 Tenn 7-61	E-Z-Hook Test Products 1536 Woodburn Ave Covington Ky Factory Enterprises Inc 3431 Butler St Pittsburgh 1 Pa Fafnir Bearing Co 37 Booth St New Britain Conn 2 Falstrom Co
Autoscrew Co 216 W 18 St New York 11 NY 3-28-44-51-52 Avionics Ltd P O Box 200 Niagara-on-the-Lake	Cleveland Wire Cloth & Mfg Co 3573 E 78 St Cleveland 5 Ohio 69 Clevite Harris Products Inc 6545 Carnegie Ave Cleveland 3 Ohio 7-41-42 Clowes Ceramic Corp	E-Z-Hook Test Products 1536 Woodburn Ave Covington Ky Factory Enterprises Inc 3431 Butler St Pittsburgh 1 Pa Fafnir Bearing Co 37 Booth St New Britain Conn Falstrom Co Falstrom Court Passaic NJ 5
Autoscrew Co 216 W 18 St New York 11 NY 3-28-44-51-52  Avionics Ltd P O Box 200 Niagara-on-the-Lake Ontario Canada 2  Bache & Co Semon 636 Greenwich St New York 14 NY 40	Cleveland Wire Cloth & Mfg Co 3573 E 78 St Cleveland 5 Ohio 69 Clevite Harris Products Inc 6545 Carnegie Ave Cleveland 3 Ohio 7-41-42 Clowes Ceramic Corp 3711 Calhoun Ave Chattanooga 7 Tenn 7-61 Coaxial Connector Co 37 N 2 Ave Mt Vernon NY 49 Collins Radio Co	E-Z-Hook Test Products 1536 Woodburn Ave Covington Ky Factory Enterprises Inc 3431 Butler St Pittsburgh 1 Pa Fafnir Bearing Co 37 Booth St New Britain Conn Falstrom Co Falstrom Court Passaic NJ Fansteel Metallurgical Corp
Autoscrew Co 216 W 18 St New York 11 NY 3-28-44-51-52  Avionics Ltd P O Box 200 Niagara-on-the-Lake Ontario Canada 2  Bache & Co Semon 636 Greenwich St New York 14 NY 40  Bacon Industries	Cleveland Wire Cloth & Mfg Co 3573 E 78 St Cleveland 5 Ohio 69 Clevite Harris Products Inc 6545 Carnegie Ave Cleveland 3 Ohio 7-41-42 Clowes Ceramic Corp 3711 Calhoun Ave Chattanooga 7 Tenn 7-61 Coaxial Connector Co 37 N 2 Ave Mt Vernon NY 49 Collins Radio Co 855 35 St N E Cedar Rapids Iowa 41	E-Z-Hook Test Products 1536 Woodburn Ave Covington Ky Factory Enterprises Inc 3431 Butler St Pittsburgh 1 Pa Fafnir Bearing Co 37 Booth St New Britain Conn Falstrom Co Falstrom Court Passaic NJ Fansteel Metallurgical Corp 2200 Sheridan Rd N Chicago Ill Farnsworth Electronics Co Div I T & T
Autoscrew Co 216 W 18 St New York 11 NY 3-28-44-51-52  Avionics Ltd P O Box 200 Niagara-on-the-Lake Ontario Canada 2  Bache & Co Semon 636 Greenwich St New York 14 NY 40  Bacon Industries 192 Pleasant St Watertown 72 Mass 23-30	Cleveland Wire Cloth & Mfg Co 3573 E 78 St Cleveland 5 Ohio 69 Clevite Harris Products Inc 6545 Carnegie Ave Cleveland 3 Ohio 7-41-42 Clowes Ceramic Corp 3711 Calhoun Ave Chattanooga 7 Tenn 7-61 Coaxial Connector Co 37 N 2 Ave Mt Vernon NY 49 Collins Radio Co 855 35 St N E Cedar Rapids Iowa 41 Column Tool & Machine Co	E-Z-Hook Test Products 1536 Woodburn Ave Covington Ky Factory Enterprises Inc 3431 Butler St Pittsburgh 1 Pa Fafnir Bearing Co 37 Booth St New Britain Conn Falstrom Co Falstrom Court Passaic NJ Fansteei Metallurgical Corp 2200 Sheridan Rd N Chicago Ill Farnsworth Electronics Co Div I T & T 3702 E Pontiac St Ft Wayne Ind
Autoscrew Co 216 W 18 St New York 11 NY 3-28-44-51-52  Avionics Ltd P O Box 200 Niagara-on-the-Lake Ontario Canada 2  Bache & Co Semon 636 Greenwich St New York 14 NY 40  Bacon Industries	Cleveland Wire Cloth & Mfg Co 3573 E 78 St Cleveland 5 Ohio 69 Clevite Harris Products Inc 6545 Carnegie Ave Cleveland 3 Ohio 7-41-42 Clowes Ceramic Corp 3711 Calhoun Ave Chattanooga 7 Tenn 7-61 Coaxial Connector Co 37 N 2 Ave Mt Vernon NY 49 Collins Radio Co 855 35 St N E Cedar Rapids Iowa 41 Column Tool & Machine Co	E-Z-Hook Test Products  1536 Woodburn Ave Covington Ky Factory Enterprises Inc  3431 Butler St Pittsburgh 1 Pa Fafnir Bearing Co  37 Booth St New Britain Conn Falstrom Court Passaic NJ Fansteei Metallurgical Corp 2200 Sheridan Rd N Chicago III Farnsworth Electronics Co Div I T & T 3702 E Pontiac St Ft Wayne Ind Feay Co Neal
Autoscrew Co 216 W 18 St New York 11 NY 3-28-44-51-52  Avionics Ltd P O Box 200 Niagara-on-the-Lake Ontario Canada 2  Bache & Co Semon 636 Greenwich St New York 14 NY 40  Bacon Industries 192 Pleasant St Watertown 72 Mass 23-30  Baker & Co	Cleveland Wire Cloth & Mfg Co 3573 E 78 St Cleveland 5 Ohio 69 Clevite Harris Products Inc 6545 Carnegie Ave Cleveland 3 Ohio 7-41-42 Clowes Ceramic Corp 3711 Calhoun Ave Chattanooga 7 Tenn 7-61 Coaxial Connector Co 37 N 2 Ave Mt Vernon NY Collins Radio Co 855 35 St N E Cedar Rapids Iowa 41 Column Tool & Machine Co 1017 N E 3 Ave Amarillo Texas 46	E-Z-Hook Test Products  1536 Woodburn Ave Covington Ky Factory Enterprises Inc  3431 Butler St Pittsburgh 1 Pa Fafnir Bearing Co 37 Booth St New Britain Conn Falstrom Co Falstrom Court Passaic NJ Fansteei Metallurgical Corp 2200 Sheridan Rd N Chicago Ill Farnsworth Electronics Co Div I T & T 3702 E Pontiac St Ft Wayne Ind Feay Co Neal 427 Olive St Santa Barbara Calif Federal Screw Products Inc
Autoscrew Co 216 W 18 St New York 11 NY 3-28-44-51-52  Avionics Ltd P O Box 200 Niagara-on-the-Lake Ontario Canada 2  Bache & Co Semon 636 Greenwich St New York 14 NY 40  Bacon Industries 192 Pleasant St Watertown 72 Mass 192 Pleasant St Watertown 72 Mass 18487 & Co 113 Astor St Newark 2 NJ 18-48	Cleveland Wire Cloth & Mfg Co 3573 E 78 St Cleveland 5 Ohio 69 Clevite Harris Products Inc 6545 Carnegie Ave Cleveland 3 Ohio 7-41-42 Clowes Ceramic Corp 3711 Calhoun Ave Chattanooga 7 Tenn 7-61 Coaxial Connector Co 37 N 2 Ave Mt Vernon NY 49 Collins Radio Co 855 35 St N E Cedar Rapids Iowa 41 Column Tool & Machine Co 1017 N E 3 Ave Amarillo Texas 46 Columbia Tape Mills	E-Z-Hook Test Products  1536 Woodburn Ave Covington Ky Factory Enterprises Inc  3431 Butler St Pittsburgh 1 Pa Fafnir Bearing Co 37 Booth St New Britain Conn Falstrom Co Falstrom Court Passaic NJ Fansteel Metallurgical Corp 2200 Sheridan Rd N Chicago III Farnsworth Electronics Co Div I T & T 3702 E Pontiac St Ft Wayne Ind Feay Co Neal 427 Olive St Santa Barbara Calif  34

1060 Washington Ave New York 56 NY 41-42 Feedback Controls Inc	1125 Hendricks Causeway	700 Park St Beatrice Nebr 4-5-58
899 Main St Waltham 54 Mass 31 Feiner & Sons P	Ridgefield NJ 28-34-45 Gudebrod Bros Silk Co	Kenwood Eng'g Co 265 Colfax Ave Kenilworth NJ 4-5
522 W 45 St New York 36 NY 4-5	225 W 34 St New York 1 NY 19 Guild Electronics Inc	Keystone Bolt & Nut Corp 125 Church St.
Felters Co 210 South St Boston 11 Mass 29-42-62	388 Broadway New York 13 NY 11	New York 7 NY 3-44-48-49-50-51-60-64-65 Keystone Electronics Co
Felt Products Mfg Co 1504 Carroll Ave	Halax Corp P O Box 425 Los Gatos Calif 2	65 7 Ave Newark 4 NJ Keystone Electronics Corp
Chicago 7 III 29-30-60-61-62-63-65-67-68 Finn & Co T R	Hallett Mfg Co 1601 W Florence	423 Broome St New York 13 NY 4-7-13-17-21-22-34-46-49-58
200 Central Ave Hawthorne NJ 41-42	Inglewood Calif 7-27-32-37-44 Hamilton Glass Co	Kirchberger & Co M 83 W Forest Ave Englewood NJ 61
Flock Process Co 375 Main Ave Norwalk Conn 41-42	2750 W Grand Ave Chicago 12 Ill 40 Hamilton Watch Co Allied Products Div	Klincher Locknut Corp
Floquil Products Inc Cobleskill NY 39	Columbia Ave Lancaster Pa 31	Kling Metal Spinning & Stamping Co
Fluorocarbon Products Inc Div U S Gasket Co 602 N 10 St	Handy & Harmen 82 Fulton St New York 38 NY 27-65-69	245 Centre St New York 13 NY 60-65 Klise Mfg Co
Camden 1 NJ 15-30-32-67 Foote Bros Gear & Machine Corp	Harper Co H M 8200 Lehigh Ave	51 Cottage Grove St SW Grand Rapids 2 Mich
4545 S Western Blvd Chicago 9 Ill 31	Morton Grove Ill 3-28-44-48-49-50-51 Harwood Electronics Co	Kontes Glass Co Vineland NJ 8
Ford Instrument Co Div Sperry Rand Corp 31-10 Thomson Ave	466 W Superior St Chicago 10 Ill 4-5-8-10-58	Koppers Co Koppers Bldg Pittsburgh 19 Pa 21
Long Island City 1 NY 21 Forsberg Mfg Co	Hassall Inc John Cantiague Rd Westbury LI NY 28-43-48	Kost Products Co 2335 N Cicero Ave
125 Seaview Ave Bridgeport 1 Conn 49-58 Franklin Fibre-Lamitex Corp	Haveg Industries Inc 900 Greenbank Rd Wilmington 8 Del 30	Chicago 39 Ill 4-5-11-13-16-28-34-58 Krengel Mfg Co
Wilmington Del 63-67 Freeway Washer & Stamping Co	Hawley Products Co N	227 Fulton St New York 7 NY 39
4911 Grant Ave	Haydu Electronic Products	Krueger & Hudepohl 1041 Evans St Cincinnati 4 Ohio 58
Cleveland 5 Ohio 56-60-63-65-67 Frenchtown Porcelain Co	1426 W Front St Plainfield NJ 16-31-57-58	Kulite Tungsten Co 1040 Hoyt Ave Ridgefield NJ 18
Muirhead Ave Trenton 9 NJ 61 Friez Instrument Div Bendix Aviation	Hayward Scientific Glass Corp 217 N Magnolia Ave Whittier 1 Calif 40	Kulka Electric Mfg Co 633 S Fulton Ave Mt Vernon NY 10-11-15
Corp 1400 Taylor Ave	Heldor Mfg Corp 238 Lewis St Paterson NJ 5-6-8	Kupfrian Mfg Corp 395 State St Binghamton NY 20-21-53
Garde Mfg Co	Heli-Coil Corp Shelter Rock Lane Danbury Conn 28	Labline Inc 3070 W Grand Ave Chicago 22 Ill 10
588 Eddy St Providence 3 RI 6-56 Garlock Packing Co	Hermetic Seal Corp 29 S 6 St Newark 7 NJ 8	Laminated Sheet Products Corp 449 Neponset St Norwood Mass 63-67
402 Main St Palmyra NY 30-67-68 Gear Specialists Inc	Heminway & Bartlett Mfg Co	Land-Air Inc
2635 W Medill Ave Chicago 47 Ill 31 Geartronics Corp	500 5 Ave New York 36 NY 19 Hermaseal Co	7444 W Wilson Ave Chicago 31 Ill 41 Landis & Gyr
2514 Broadway	1101 Lafayette St Elkhart Ind 6 Heyman Mfg Co	45 W 45 St New York 36 NY 2 LaPointe Industries Inc
Long Island City NY 31-53-54 Gee-Lar Mfg Co	147 N Michigan Ave Kenilworth NJ 7-32-59	155 W Main St Rockville Conn 4-5-58 Lee Chemical Corp Walter
418 S Wyman St Rockford Ill 4-5-20 Gemex Corp	Hi Grade Alloy Corp 236 S. Talman Chicago 8 Ill 65	Seabury Ave & Butler Pi Bronx 61 NY 7-23-32
1200 Commerce Ave Union NJ 58	Hitchiner Mfg Co P O Box 232 Milford NH 24	Lerco Electronics Inc
General Cement Mfg Co Div Textron Inc 10-12-13-14-15-16-17-20	Hobson Bros 4940 W Lawrence Ave Chicago 30 Ill 15	501 S Varney St Burbank Calif 27-34-44
400 S Wyman St 21-34-37-46-49-50-51-52 Rockford Ill 56-57-60-62-64-65-68	Huck Mfg Co	Lewis Spring & Mfg Co 2652 W North Ave Chicago 47 Ill 57
General Components Inc 225 E 144 St	2480 Bellevue Ave Detroit 7 Mich 3-28-48 Hunter Spring Co	Liberty Mirror Div Libbey Owens Ford Glass Co
Bronx 51 NY 5-21-33-34-58-67 General Control Co	1 Spring Ave Lansdale Pa 10-16 iE Mfg	Brackenridge Pa 40
1200 Soldiers Field Rd	325 N Hoyne Ave 4-5-10-11-16-45-57-58- Chicago 12 Ill 60-61-62-63-64-65-66-67-68	Link Aviation Inc Binghamton NY 31
Boston 34 Mass 18 General Electric Co Apparatus	Indium Corp of America 1676 Lincoln Ave Utica 4 NY 65	Link-Belt Co Prudential Plaza Chicago 1 Ill 2-21-22-31-47
Sales Div 1 River Rd Schenectady 5 NY 2	Industrial Accessories Inc Line Rd Matawan NJ 30-32	Litton Industries of Calif 336 N Foothill Rd Beverly Hills Calif 8-34
General Findings & Supply Co	Industrial Devices Inc 982 River Rd Edgewater NJ 12-17	Litton Industries of Md Inc
Industrial Div Leach & Garner Bldg Attleboro Mass 18-32-49	Industrial Hardware Mfg Co 109 Prince St New York 12 NY 58	4910 Calvert Rd College Park Md 31 Lord Mfg Co
General Machine & Instrument Co Clinton Rd & Rt 46 Caldwell NJ 24	Industrial Test Equipment Co 55 E 11 St New York 3 NY 53	1635 W 12 St Erie 6 Pa 21-23-41-42 Lorentzen Inc H K
General Metal Products Co 1010 Centre St Easton Pa 4-5	Instruments Inc	391 W Broadway New York 12 NY 4-5-42-58
Gibson Electric Co	Insulating Fabricators of N E Inc	Louthan Mfg Co Harvey Ave E Liverpool Ohio 61
8317 Frankstown Ave Pittsburgh 21 Pa 18	69 Grove St Watertown 72 Mass 67 Insulation Mfrs Corp	Lundey Associates
Glaser-Steers Corp 20 Main St Belleville 9 NJ 36	565 N Washington Blvd Chicago 39 Ill 63-66-67	694 Main St Waltham 54 Mass 6 Malco Tool & Mfg Co
Gleason-Avery Inc 45 Aurelius Ave Auburn NY 49	Insulation & Wires Inc 1534 Swinney Ave Ft Wayne Ind 63	4025 W Lake St Chicago 24 Ill 34 Malkin-Illion Co
Globe Industries Inc	Insuline Corp of America 186 Granite St 4-5-9-12-16-20-22-26-27-	400 Coit St Irvington 11 NJ 5 Mallory & Co Inc P R
1784 Stanley Ave Dayton 4 Ohio 31 Goat Co Fred	Manchester NH 44-46-52-58-63-64-65-68 Int'l Electronic Research Corp	42 S Gray St Indianapolis 6 Ind 18 Mandex Mfg Co
314 Dean St Brooklyn 17 NY 15-16 Goe Eng'g Co	145 W Magnolia Blvd Burbank Calif 11 Int'l Powder Metallurgy Co	2608 W 16 St Chicago Ill 34 Markem Machine Co
219 S Mednik Ave	439 W Main St Ridgeway Pa 2-7	150 Congress St Keene NH 39
Golden Co	Isolantite Mfg Corp Warren Ave Stirling NJ 6-7-61	Markwik Mfg Co 31 Sexton Rd Plainview LI NY 39
1054 38 St Brooklyn 19 NY 4-5-58 Goodrich Aviation Products Div	Jacobson Nut Mfg Corp Box 177 Kenilworth NJ 44	Marlin-Rockwell Corp 402 Chandler St Jamestown NY 2
500 S Main St Akron 18 Ohio 28-48 Goodrich Industrial Products Co B F	Jan Hardware Mfg Co 75 N 11 St	Martindale Electric Co Box 617 Edgewater Branch
500 S Main St Akron 18 Ohio 80	Brooklyn 11 NY 4-20-21-22-34-37-53-54 Janette Electric Mfg Co	Cleveland 7 Ohio 17-68
Gordon Enterprises 5362 N Cahuenga Blvd N Hollywood Calif 40	8350 Lehigh Ave Morton Grove Ill 31	Matthews & Co Jas H 3956 Forbes St Pittsburgh 13 Pa 39
Graflex Inc 154 Clarissa St Rochester 8 NY 49	Jelliff Mfg Corp CO Southport Conn 69	Mayfair Molded Products Corp 3700 N Rose St
Grant Gear Works	JFD Mfg Co 6106-16 Ave Brooklyn 4 NY 12	Franklin Park III 30-32-41-42-67-68 Mercury Electronic Co
154 W 2 St S Boston Mass 31 Grant Pulley & Hardware Corp	Jodee Plastics Co 213 Shepherd Ave Brooklyn 8 NY 49	Box 450 B Red Bank NJ 41-42 Metals & Controls Corp
31-85 Whitestone Pkwy Flushing 54 NY 55 Graphite Metallizing Corp	Johnson Bronze Co	General Plate Div
1002 Nepperhan Ave Yonkers NY 18 Grayhill Inc	S Mill St New Castle Pa 2 Johnson Co E F	48 Forest St Attleboro Mass Metal Specialty Products Corp
561 Hillgrove Ave LaGrange Ill 17-67	Waseca Minn 20-21-22 Johnson & Hoffman Mfg Corp	27-01 Brooklyn Queens Expressway W Woodside 77 NY 4-5-10-11-16-58-65
Greer Hydraulics Inc N Y Int'l Airport Jamaica 30 NY 23	31 E 2 St Mineola NY 18-27 Johns-Manville	Metal Textile Corp 647 E First Ave Roselle NJ 30-69
Greer Stop Nut Co 2608 W Flournoy St	22 E 40 St New York 16 NY 30 Jones Electronics Hiram	Methode Mfg Corp 7447 W Wilson Ave
Chicago 12 Ill 44-49-51	2313 W Olive St Burbank Calif 27-34-46-49	Harwood Heights Ill 46-58 Metpro Inc R I
Gries Reproducer Corp 125 Beechwood Ave 3-7-24-28-31	Kaynar Co	230 Toronto Ave
125 Beechwood Ave 3-7-24-28-31 New Rochelle NY 32-48-51-52-67	Box 2001 Terminal Annex Los Angeles 54 Calif 37-44	Providence 5 R I 8-27

Mica Fabricating Co	Nylok Corp 611 Industrial Ave	Rohn Mfg Co 116 Limestone Bellevue Peoria 5 Ill 4-5-33
Rochelle Park NJ 61-63-66-67 Micarta Fabricators Inc	Paramus NJ 3-28-37-44-51-52	Roller Bearing Co of America
5324 N Ravenswood Ave Chicago 40 Ill 63-67	Ohio Carbon Co. 12508 Berea Rd Cleveland 11 Ohio 2-7-18	Sullivan Way W Trenton NJ Romac Products Co
Micromold Products Corp 1 School St Yonkers NY 30	Olin Mathieson Chemical Corp	48-01 25 Ave Long Island City 3 NY 58
Micron Gear Mfg Co	460 Park Ave New York 22 NY 28	Romar Plastics Inc 1311 E Main St St Charles Ill 33-6'
73 Rushmore St Westbury LI NY 31	Omega Industries Inc 36-39 171 St Flushing NY 45	Rosan Inc
Mid-West Conveyor Co Metal Products Div 7 & Sunshine Rd Kansas City 15 Kan 5-8	Palnut Co	2901 W Coast Hwy Newport Reach Calif 3-28-37-49
Mid-West Spring Mfg Co	25 Glen Rd Mountainside NJ 28-37-44 Parker-Kalon Div General American	Newport Beach Calif 3-28-37-49 Rubbercraft Corp of Calif
Etna St Mentone Ind 57	Transportation Corp Clifton NJ 28-50-51	1800 W 220 St
Mil Case Corp 35-18 37 St	Parker Metal Goods Co	Torrance Calif 23-30-32-41-66 Russell Burdsall & Ward Bolt & Nut Co
Long Island City NY 4-5-8-9-30-33-55	85 Prescott St Worcester 5 Mass 34 Paul & Beekman	Midland Aro
Milford Rivet & Machine Co 857 Bridgeport Ave Milford Conn 48	1801 Courtland St Philadelphia 40 Pa 8	Port Chester NY 3-44-48-50-51-52 Safetee Glass Co
Millen Mfg Co James	Peerless Electronics Inc 5338 Alhambra Ave	4717 Stenton Ave Philadelphia 44 Pa 46
150 Exchange St	Los Angeles 32 Calif 10-11	Saginaw Steering Gear Div GMC
Malden 48 Mass 11-15-20-21-22-34 Miller Co J W	Peerless Products Industries 812 N, Pulaski Rd Chicago 51 III 49	3900 Holland Saginaw Mich St Marys Carbon Co
5917 S Main St Los Angeles 3 Calif 8	Pem Eng'g & Mig Corp	State St St Marys Pa 2-
Miniature Precision Bearings Inc Precision Park Keene NH 2	Box 311 Doylestown Pa 28-44	Samples Machine Co A M 208 Tazewell Pike Knoxville 18 Tenn 16-49
Minnesota Rubber & Gasket Co	Penn Fibre & Specialty Co. 2020 E Westmoreland St. 30-32-49-60-62	Schmidt Inc Geo T
3630 Wooddale Ave St Louis Park	Philadelphia 34 Pa 63-65-66-67-68	4100 N Ravenswood Ave Chicago 13 Ill 39 Schrack Electrical Sales Corp
Minneapolis 16 Minn 23-30-32 Minor Rubber Co	Perkins Machine & Gear Co Circuit Ave West Springfield Mass 31	45 W 81 St
Ackerman St	Permonite Mfg Co	New York 24 NY 51-52-62-63-65-6' Scientific Glass Apparatus Co
Bloomfield NJ 7-30-32-42-67-68 Mitronics Inc	444 Lake Shore Dr Chicago 11 Ill 4-5-58-63-67	100 Lakewood Terrace
1290 Central Ave Hillside NJ 61	Pheoll Mfg Co	Bloomfield NJ 8-10-12-6
Mobil Electronics Mfg Co	5700 W Roosevelt Rd Chicago 50 Ill 3-28-44-50-52	Scovill Mfg Co 99 Mill St Waterbury 20 Conn 27-28-34-49-5
1111 State Rd 67 E Anderson Ind 5 Molding Corp of America	PIC Design Corp	Scalectro Corp
58 Weybosset St	477 Atlantic Ave E Rockaway LI NY 2-21-31-51-60-65	610 Fayette Ave Mamaroneck NY Segal Edward
Providence 3 R I 6-7-32-67 Moody Machine Products Co	Pilgrim Screw Corp	72 Spring St New York 12 NY 27-33
40 Dudley St Providence 5 RI 49	259 Dexter St Providence 1 RI 50-52	Shakeproof Div Illinois Tool Works St Charles Rd Elgin Ill 28-37-44-50-6
Morris Co J I	Piqua Machine & Mfg Co 441 S College St Piqua Ohio 49	Sheffco Mfg Corp
390 Elm St Southbridge Mass 28-49-51-52	Pix Mfg Co	323 Bergen Blvd Fairview NJ 58-60-63-65-67-6
Moser Jewel Co	Plastic Mold & Eng'g Co	Silicone Insulation Inc
544 Fayette St Perth Amboy NJ 2 Muckle Mfg Co	157 Clifford St Providence RI 7-67	Seabury Ave & Butler Pl Bronx 61 NY 7-3 Sillcocks-Miller Co
US Hwy 14 Owatonna Minn 33	Polymer Corp 2120 Fairmont Ave Reading Pa 2-7-30-44-67	10 W Parker Ave Maplewood NJ 6
Mueller Electric Co	Pomona Electronics Co	Simmonds Aerocessories Inc 105 White Plains Rd Tarrytown NY 2.
1585H E 31 St Cleveland 14 Ohio 12-17 Mycalex Corp of America	1126 W 5 Ave Pomona Calif 17 Ponn Machine Cutting Co	Simmons Fastener Corp
125 Clifton Blvd Clifton NJ 61-66	Tileston St Everett 49 Mass 30	N Broadway Albany 1 NY 2
Nagel-Chase Mfg Co 2811 N Ashland Ave Chicago 13 III 4-9	Positive Lock Washer Co Avenue A & Miller St Newark 5 NJ 64	Simmonds Saw & Steel Co 470 Main St Fitchburg Mass 5
2811 N Ashland Ave Chicago 13 Ill 4-9 Narrow Fabric Co	Avenue A & Miller St Newark 5 NJ 64 Precise Instrument Parts Co	Sinclair Mfg Co
PO Box 742 Reading Pa 19	4520 San Fernando Rd	P O Box 243 Chartley Mass 5-7-11-28-34-44-49-5
National Ceramic Co 500 Southard St Trenton 2 NJ 61	Glendale 4 Calif 28-49-54-60-63-65-67 Precision Metal Products Co.	SKF Industries Inc
National Cine Equipment Inc	41 Elm St Stoneham Mass 33	Front St & Erie Ave Philadelphia 32 Pa Slip Ring Co of America
209 W 48 St New York 36 NY	Premmco Inc 5470 Valley Blvd Los Angeles 32 Calif 28	3612 W Jefferson Blvd
National Company Inc 61 Sherman St	Printloid Corp	Los Angeles 16 Calif 7-66-6 Smith Inc Herman H 10-11-12-14-15-16-17
Malden 48 Mass 11-15-20-21-22	93 Mercer St New York 12 NY 67 Protectoseal Co	2226 Nostrand Ave 19-20-21-22-26-32-34
National Gasket & Washer Mfg Co 124 E 25 St 29-30-60-62-	1920 S Western Ave Chicago 8 Ill 8	Brooklyn 10 NY 44-46-49-50-51-52-53 54-58-60-61-62-63-64-65-67-6
New York 10 NY 63-65-67-68	Quaker City Gear Works Bethayres Pa 31	Solar Mfg Corp
National Lock Washer Co 40 Hermon St Newark 5 NJ 64	Rada Products Co	4553 Seville Ave Los Angeles 58 Calif 6
National Screw & Mfg Co	2911 Carroll Ave Chicago 12 Ill 4-5-58 Radio Frequency Labs Inc	Southco Div South Chester Corp Lester Pa 28-4
2440 E 75 St 3-37-44-45-48-	Roonton N.I. 55	Southern Screw Co
Cleveland 4 Ohio 49-50-51-52 National-Standard Co	Rapid Specialties Co	P O Box 1360-EI Statesville NC South River Metal Prods Co
Niles Mich	325 W Huron St Chicago 10 III 17 Raybestos-Manhattan Inc	377 Turnpike South River NJ 5-5
National Tel-Tronics Corp 52 St Casimir Ave Yonkers NY 15-46-58	61 Willett St Passaic NJ 30-42-68	Sparta Mfg Co Dover Ohio 2-30-6
National Vulcanized Fibre Co	Raybestos-Manhattan Inc Plastic Products Div Manheim Pa 30	Spaulding Fibre Co
P O Box 311 Wilmington 99 Del 63-67	Raytheon Mfg Co	310 Wheeler St 2-7-9-30-32-33-3 Tonawanda NY 44-49-63-6
Nemeth Inc 2223 S Carmelina Ave	100 River St Waltham 54 Mass 5-34 Raytheon Mfg Co Ceramic Sales	Tonawanda NY 44-49-63-6 Sphere Co
Los Angeles 64 Calif	Foundry Ave Waltham Mass 6-7-61	25 Amity St Little Falls NJ 6-
Neosil Products Div Rubber Associates 745 5 Ave New York 22 NY	Reeves Instrument Corp 215 E 91 St New York 28 NY 31	Spring Packing Corp 332 S Michigan Av Chicago 4 Ill 29-3
Neumade Products Corp	Reflectone Corp	Spruce Pine Mica Co
250 W 57 St New York 19 NY	Boston Post Rd Stamford Conn 21 Reiner Electronics Co	P O Box 456 Spruce Pine NC Stamford Metal Specialty Co
Newcomb Spring of Conn College Hwy Southngton Conn 57-65		427 W Broadway New York 12 NY 4-5-
Newcomb Spring Corp	Reliable Spring & Wire Forms Co 3167 Fulton Rd Cleveland 9 Ohio 10-16-57	Standard Electric Time Co 89 Logan St Springfield 2 Mass 12-1
177 E Hawthorne Ave 14-15-16-28-34-42 Valley Stream N Y 57-58-60-61-64-65-67		Standard Locknut & Lockwasher Inc
New Departure Div GMC	Corp 315 4 Ave New York 10 NY 34	2250 Valley Ave Indianapolis 18 Ind 44-4 Standard Pressed Steel Co
269 N Main St Bristol Conn New England Tape Co.	Remler 2101 Bryant St San Francisco Calif 11-41	Box 899 Jenkintown Pa 3-25-28-37-44-45-5
30 Tower St Hudson Mass 19-67	Repath Pacific Div Arnold Eng'g Co	Standard Record Mfg Co 70 N San Gabriel Blvd
Ney Co J M P O Box 990 Hartford 1 Conn 18	641 E 61 St Los Angeles 1 Calif 8 Republic Steel Corp	Pasadena 8 Calif 8-24-2
N H Ball Bearings Inc	Republic Bldg Cleveland 1 Ohio 3-28-37-44	Star Stainless Screw Co 655 Union Blvd
Petersborough 1 NH Nichols Products Co.	Research Development Mfg Inc 429 E Collom St	Paterson NJ 3-44-45-49-50-51-52-64-6
325 W Main St Moorestown NJ 7-49-67	Philadelphia 41 Pa 2-49-54	Star-A-Electric Mfg Co
Nielsen Hardware Corp 770 Wethersfield Ave	Resistflex Corp Woodland Rd Roseland NJ 23	269 Meserole St Brooklyn 6 NY Staver Co
Hartford 14 Conn 10-28-33	Rhodes & Sons Co M M	41-51 N Saxon Ave
Niemand Bros 37-05 35 Ave Long Island City 1 NY 6	Box 627 Taunton Mass 43 Richardson Co	Bay Shore LI NY 11-27-5 Steel Co Herman D
Norden-Ketay Corp	27 Ave & Lake St Melrose Park III 33-67	Lafayette Bldg Philadelphia 6 Pa 31-4
Commerce Rd Stamford Conn 31	Roberts Toledo Rubber Co 1200 Prospect Ave	Sterling Bolt Co 363 W Erie St
Norrich Plastics Corp 35 E 32 St New York 16 NY	Toledo 6 Ohio 7-32-42-68	Chicago 10 Ill 3-44-50-51-52-60-64-6
Northern Metal Products Corp 9599 W Grand Ave Franklin Park Ill 8-58	Robinson Aviation Inc Teterboro NJ 41-42	Stevens Products Inc 86 Main St E Orange NJ
Northern Plastics Corp	Robinson Machine Works	Stewart Corp F W
. 2nd Market St LaCrosse Wisc 6' North Shore Nameplate Inc	802 E 8 St New Albany Ind 3 Rogers Corp	4311 Ravenswood Ave Chicago 13 III Steward Mfg Co D M
214-27 Northern Blvd Bayside 61 NY 3		Chattanooga Tenn

Stewart Warner Electronics Div	Waldes Kohinoor Inc	Hal-Hen Co
1300 N Kostner Ave Chicago 51 III 5 Stimson Co Edwin B	47-16 Austel Pl	36-14 11 St Long Island City 6 NY 3-4
70 Franklin Ave	Long Island City 1 NY 28 Waldom Electronics Inc	Insuline Corp of America 186 Granite St Manchester NH
Brooklyn 5 NY 27-32-48-64-65	4625 W 53 St 13-28-32-34-50-	Knowles Electronics Inc
Stokes Molded Products Div Electric Storage Battery Co	Chicago 32 Ill 51-63-64-65	9400 Belmont Franklin Park Ill 3-4
241 Taylor St Trenton 4 N.I	Walker Co George 118 Amsterdam Ave Passaic NJ 59	Linlar Inc 4101 San Fernando Rd Glendale 4 Calif
Stone City Machine & Tool Co	Walsco Electronics Mfg Co 4-7-10-12-14-15-16-	Master Mobile Mounts Inc
1206 7 St 4-5-8-10-11-16-17-34 Bedford Ind 35-41-42-46-57-58-63	100 W Green St 17-19-27-28-32-44-46-48-57-	1306 Bond St Los Angeles 15 Calif
Stow Mfg Co	Rockford Ill 58-60-61-62-63-64-65	Melody Master Mfg Co 2842 N Cicero Ave Chicago 41 Ill 2-5
443 State St Binghamton NY 53	Waltham Screw Co 77 Rumford Ave Waltham 54 Mass 49-51-52	Mytron Mfg Co
Stromberg-Carlson Div General Dynamics Corp	Waltham Watch Co	4522 Brazil St Los Angeles 39 Calif
100 Carlson Rd Rochester 3 NY	221 Crescent St Waltham 54 Mass 49	Permoflux Products Co 4101 San Fernando Rd Glendale 4 Calif 2
Stupakoff Div Carborundum Co	Walton Tool & Die Co	Plastic Mold & Eng'g Co
Latrobe Pa 6-7-61 Sun Tube Corp	2707 Empire Ave Burbank Calif 4-5-49 Waterbury Pressed Metal Co	157 Clifford St Providence RI
181 Long Ave Hillside NJ g	300 Chase Ave	Pye Canada Ltd 82 Northline Rd Toronto 16 Ont Canada
Superior Steatite & Ceramic Corp	Waterbury 14 Conn 27-28-37-44-58	Roanwell Corp
91 W Forest Ave Englewood NJ 61 Swiss Jewel Co	Waters Mfg Inc Boston Post Rd Wayland Mass 28	662 Pacific St Brooklyn 17 NY 2-4 Roflan Co
Lafayette Bldg Philadelphia 6 Pa 2	Watson Mfg Co	Topsfield Mass 2-4
Sylvania Electric Products Inc	3700 Taylor St Jamestown NY 41-55	Superex Electronics Corp
1740 Broadway New York 19 NY 27-61 Taffet Radio & TV Co	Weckesser Co 5701 Northwest Hwy	4 Radford Pl Yonkers NY Telephonics Corp
27-05 Brooklyn-Queens Expressway W	Chicago 30 Ill 11-28-44-51-52-67	Park Ave Huntington Ll NY 2-3-4
Woodside 77 NY 5-16-58	Welch Mfg Co W M	Telex
TA Mfg Corp 4607 Alger St	1515 Sedgwick St Chicago 10 Ill 14 Wenco Mfg Co	1633 Eustis St St Paul 1 Minn 3-4 Trimm Inc
Los Angeles 39 Calif 4-5-10-11	1133 W Hubbard Chicago 22 Ill 8	400 W Lake St Libertyville Ill
Taylor Fibre Co	Western Gold & Platinum Co	U S Instrument Corp P O Box 33E Charlottesville Va
Norristown Pa 7-32-49-56-63-67 Tayloreel Corp	525 Harbor Blvd Belmont Calif 61-65 Westfield Metal Products Co	- O DOX OOD CHAIRCHESVIIIE VA
185 Murray St Rochester 6 NY 8	1035 Lower Union St	30—INDICATORS
Technicraft Co	Westfield Mass 3-44-49-52	
1156 Commonwealth Ave	Westline Products Div Western Lithograph Co	Indicators, annunciators 1
Boston 34 Mass Techniques Inc	600 E 2 St Los Angeles 54 Calif 39	Indicators, antenna position 2
52 Jackson Ave Hackensack N.J 27	Wheaton Co T C	Indicators, arc-over 3
Telectro Industries Corp	Millville NJ 24 Whitaker Cable Corp	Indicators, broadcast 4
35-18 37 St Long Island City 1 NY 36-42-47 Texas Instruments Inc	1301 Burlington St N	Indicators, capacitor leakage 5
6000 Lemmon Ave Dallas 9 Texas 40	Kansas City 16 Mo 12-16	Indicators, data display 6
Thale Eng'g Corp	White & Son James L 374 Verona Ave Newark 4 NJ 31	Indicators, deviation 7
2104 E Villa St Pasadena Calif 34 Thompson-Bremer & Co	374 Verona Ave Newark 4 NJ 31 White Dental Mfg Co S S	Indicators, dew paint 8
Sub American Machine & Fdry	Industrial Div	Indicators, dielectric constant 9
520 N Dearborn St Chicago 10 III 44-50-64	10 E 40 St New York 16 NY 21-53	Indicators, film thickness 10
Thomson Industries Inc 1029 Plandome Rd Manhasset NY 2-6-7-54	Wirgins Oil Tool Co E B 3424 E Olympic Blvd	Indicators, frequency 11
Thor Ceramics Inc	Los Angeles 23 Calif 20	Indicators, ground detector 12
225 Belleville Bloomfield NJ 61	Wilcolator Co 1001 Newark Ave Elizabeth NJ 23	Indicators, illumination 13
Times Facsimile Corp 540 W 58 St New York 19 NY 11	Wilmington Fibre Specialty Co	Indicators, industrial 14 Indicators, linear displacement 15
Timken Roller Bearing Co	New Castle Del 7-32-63	Indicators, intear displacement 15
1835 Dueber Ave S W Canton 6 Ohio 2	Winder Aircraft Corp of Florida P O Box 2397 4-5-10-11-16-17	Indicators, materials thickness . 17
Tinnerman Products Inc Department 16 P O Box 6688 Cleveland 1 Ohio 11-28-44	Drane Field 28-30-32-41-42	Indicators, medical electronic 18
Titan Metal Mfg Co	Lakeland Fla 55-56-60-62-65-68	Indicators, modulation 19
Bellefonte Pa 24	Wind Turbine Co E Market St & PRR W Chester Pa 69	Indicators, moisture 20
Titchener & Co E H 67 Clinton St Binghamton NY 3-5-33	Winzeler Mfg & Tool Co	Indicators, moving target 21
Toman & Co E	7355 W Wilson Ave Chicago 31 Ill 31 Wolfe Co F C Div Parker Appliance Co	Indicators, null
8700 W 47 St Lyons III 33 Transicoil Corp	10567 Jefferson Blvd Culver City Calif 30	Indicators, oxygen 23
Worcester Pa 31	Worcester Pressed Aluminum Corp 13 Hope Ave Worcester 3 Mass 8-58	Indicators, plan position 24
Triad Transformer Corp	13 Hope Ave Worcester 3 Mass 8-58 Workman TV Inc	Indicators, power level 25
4055 Redwood Ave Venice Calif 8 Tricon Mfg Co	309 Queen Anne Rd Teaneck NJ 16	Indicators, pressure 26
8012 Wallace St Chicago 20 III 18-23-48-60	Wrought Washer Mfg Co 2275 S Bay St	Indicators, proximity 27
Tri-Point Plastics Inc Tri-Point Mfg Inc	Milwaukee 7 Wis 56-58-60-65-66-67	Indicators, pulse time rise 28
175 I U Willets Rd Albertson LI NY 7 Tru-Lock Fasteners Inc	Wyzenbeek & Staff Inc	Indicators, radiation 29
Woodbury Conn 28	223 N California Ave Chicago 12 Ill 53 Yale & Towne Powdered Metal Prods Div	Indicators, R-F
Tubular Rivet & Stud Co	9335 W Belmont Ave Franklin Park Ill 2	Indicators, servo
Lindon St Wollaston 70 Mass 18-44-48 United-Carr Fastener Corp	Zagora Gears Inc 1327 S Mint St Charlotte 3 NC 31	Indicators, shorted turn 32
Cambridge 42 Mass 3-34-41-42-44-45-58	Zierick Mfg Corp	Indicators, sound level 33
United Fabricators & Electronics	Beechwood & Rockdale Ave	Indicators, speed
Myrtle & Water Sts Stillwater Minn 31	New Rochelle NY 12-14-15-17-58	Indicators, telemetering 36
United Shoe Machinery Corp 140 Federal St Boston 7 Mass 27-28-48	00 117 45 0110 1170	Indicators, temperature 37
Universal Condenser Co	29—HEADPHONES	Indicators, timing 38
3435 N Kimball Ave Chicago 18 III 8		Indicators, torque 39
Uniwave Inc 2 Marine St Farmingdale NY 20-21-22-34-49	Headphones, crystal	Indicators, vacuum 40
U S Gear Corp	Headphones, dynamic 2	Indicators, vibration 41
71 Broadway Wakefield Mass 31	Headphones, hearing aid 3	Indicators, volume 42
U S Engineering Co	Headphones, magnetic 4	
5873 Rodeo Rd Los Angeles 16 Calif 33 US Graphite Co Div Wickes Corp	Allied Electronic Equip Co	Abbeen Supply Co
1621 Holland Ave Saginaw Mich 2	868 San Mateo Ave San Bruno Calif 4	179-15 Jamaica Ave Jamaica 32 NY 20 Abrams Instrument Corp
U S Stoneware Co Alite Div	Altec Lansing Corp 1515 S Manchester Ave Anaheim Calif 2	606 E Shiawassee St Lansing 1 Mich 38
Orville Ohio 6-7-61	Amplivox Ltd	Advanced Electronics Inc
Utilities Service Co 1 Pine St Allentown Pa 3-10-44-45-65	2 Bentiner St London W I England 3-4	94 Silas Deane Hwy Rocky Hill 9 Conn 41 Advance Industries Inc
Vallorbs Jewel Co Lancaster Pa 2-49	Audio Sears Corp Shepard Hill Rd Roxbury NY 2-4	640 Memorial Dr Cambridge 39 Mass
VanKeuren Co	British Industries Corp	Advance Instrument Corp
176 Waltham St Watertown 72 Mass 45	80 Shore Rd Port Washington NY 2-4	1709 F St Belmar NJ Aero Electronics Co
Vector Electronics Co 3352 San Fernando Rd	Brush Electronics Co 3405 Perkins Ave Cleveland 14 Ohio 1	1512 N Wells St Chicago 10 Ill 6-31
Los Angeles 65 Calif 8	Cannon Co C F	Aero Instrument Co
Video Industries Co	Springwater NY 4 Conn Telephone & Electric Corp	11423 Vanowan St N Hollywood Calif 11-38 Aero Research Instrument Co
242 Madison Ave Port Chester NY 34	70 Brittania St Meriden Conn 4	315 N Aberdeen St Chicago 7 Ill 34
Wabash Metal Products Co 1569 Morris St Wabash Ind 60-65-67	Dyna-Empire Inc	Aerojet-General Corp
Wade Electric Products Co	1075 Stewart Ave Garden City LI NY 3 Elgin National Watch Co	6352 N Irwindale Ave Azusa Calif Aerolite Electronics Corp
Box 271 Sturgis Mich 5		

Airborne Electronics Co	B J Electronics Borg-Warner Corp	Elfa Intrument Center
6813 Troost Ave N Hollywood Calif 2	3300 Newport Ave Santa Ana Calif 6-11-26-30-36-37	55 Reade St New York 7 NY Ellis Associates
Airmee Ltd High Wycombe Buckinghamshire England 11-22-38	Boonton Electronics Corp	67 Lincoln Ave Pelham NY 35
Airpax Products Co	738 Speedwell Ave	Ellison Draft Gage Co
Middle River Baltimore 20 Md 11-34	Morris Plains NJ 11-22-30	548 W Monroe St Chicago 6 Ill 26-40 Endevco Corp
Alden Electronic & Impulse Recording	Boonton Radio Corp Intervale Rd Boonton NJ 10	161 E California St Pasadena Calif 41
Equip Co P O Box 125 Westboro Mass 29	Rosch Inc. M. Ten	Erwood Inc
Alfred Electronics	80 Wheeler Ave Pleasantville NY 31	1770 W Berteau Ave Chicago 13 Ill ESC Corp
897 Commercial St Palo Alto Calif 40	PO Box 1790 EITT 7-8-20-22-23-25-26-31-	534 Bergen Blvd Palisades Park NJ 28
Allard Instrument Corp 146 E 2 St Mineola LI NY 6	Waterhury 20 Conn 34-35-36-37-38-40-42	Fairchild Guided Missiles Div
Aloe Scientific	Bruno-New York Industries Corp	Fairchild Engine & Airplane Corp Straight Path Wyandarch L I N Y 27
5655 Kingsbury Blvd	460 W 34 St New York 1 NY 22 Brunswick Instruments	Farnsworth Electronics Co Div I T & T
St Louis 12 Mo 18-26-37	PO Box 813 New Brunswick NJ 25	3702 E Pontiac St Ft Wayne Ind
American Communications Corp 280 Broadway New York 17 NY 1	Brush Electronics Co	Federal Products Corp 1144 Eddy St Providence RI 15
American Electronics Inc Instruments Div	3405 Perkins Ave Cleveland 14 Ohio 7	Federal Telephone & Radio Co
9503 W Jefferson Blvd Culver City Calif 34	Burroughs Corp 6071 2 Ave Detroit 32 Mich 6-16-27-36	Div IT & T 100 Kingsland Rd 11-22-25
American Instrument Co 8030 Georgia Ave	Cambridge Instrument Co	Clifton NJ Feedback Controls Inc
Silver Spring Md 8-10-17-20	Grand Central Terminal New York 17 NY 37	899 Main St Waltham 54 Mass 31
American Machine & Foundry Co	Central Scientific Co of Calif 1040 Martin Ave Santa Clara Calif 40	Fenwal Inc Pleasant St Ashland Mass 37 Fielden Instrument Div 14-15-20
Defense Products Group 1101 N Royal St 2-10-11-21-	Channel Master Corp	Robertshaw-Fulton Controls Co 29-34-37
Alexandria Va 26-27-36	Ellenville NY	2920 N 4 St Philadelphia 33 Pa 39-41
American Machine & Foundry Co	Chicago Aerial Industries Inc 1980 N Hawthorne Ave	Fischer & Porter Co 478 Warminster Rd Hatboro Pa 14-25-26-36-37-40
Electronics Div 1085 Commonwealth Ave	Melrose Park III 17-34	Fisher Scientific Co
Boston 15 Mass 6-21-24	Chicago Industrial Instrument Co	711 Forbes St Pittsburgh 22 Pa 37 Ford Instrument Co Div Sperry Rand Corp 31
American Microwave Corp	865 N Sangamon St Chicago 22 III 20 Colvin Labs Inc	31-10 Thomson Ave Long Island City 1 NY
11754 Vose St N Hollywood Calif 11	364 Glenwood Ave E Orange NJ 26	Freed Transformer Co
Analogue Controls Inc 39 Roselle St Mineola NY 31	Communication Equipment & Eng g Co	1718-36 Weirfield St Brooklyn 27 NY 22 Frequency Standards Inc
Antlab Inc	3040 W Race Ave Onicago 1.	P O Box 504 Asbury Park NJ 11-30
4950 N High St Columbus 14 Ohio 2	66 Brooklyn Ave Westbury NY 17-26-31	Friez Instrument Div Bendix Aviation Corp
Anton Electronic Labs 1226 Flushing Ave Brooklyn 6 NY 29	Consolidated Electrodynamics Corp	1400 Taylor Ave Baltimore 4 Md Gary Wells Co
Apparatus Development Co	200 N Sierra Madre Villa Pasadena Calif 20-23-26-35-40-41	361 Rockaway Ave Valley Stream NY 11
115 Main St	Consolidated Electrodynamics Corp	General Controls Co
Wethersfield 9 Conn 2 Applied Science Corp of Princeton	Rochester Div 40 1775 Mt Read Blvd Rochester 4 NY	801 Allen Ave Glendale 1 Calif 14-26-37-40 General Electric Co
P O Box =44 Princeton NJ 36	Continental Electric Co Taylor Tubes Inc	Apparatus Sales Div 10-11-15-17-20-37-40
Arnoux Corp	6 N Michigan Ave Chicago 2 III 40	1 River Rd Schenectady 5 NY General Radio Co 7-11-19-22-33-34-41
11924 W Washington Blvd Los Angeles 66 Calif 37	Corbin Corp 5419 56 Pl Riverdale Md 8-37 Cornell-Dubilier Electric Corp	275 Massachusetts Ave Cambridge 39 Mass
Assembly Products Inc	333 Humilton Blvd S Plainfield NJ 5	Gertsch Products Inc 11846 Mississippi
Wilson Mills Rd	Collins Radio Co 855 35 St N E Cedar Rapids Iowa	Ave Los Angeles 25 Calif 7-22 Giannini & Co G M
Chesterland 1 Ohio 22-29-30-37-40 Associated Research Inc	Cramer Controls Corp Centerbrook Conn 38	918 E Green St 14-15-22-26-31-34-36-37-40
3758 W Belmont Ave	Crescent Eng'g & Research Co 15-17-22-25	Pasadena Calif Gilmore Industries Inc
Chicago 18 III 12-14	5440 N Peck Rd El Monte Calif 31-35-39-41 Curtiss-Wright Corp Electronics Div	5713 Euclid Ave Cleveland 3 Ohio 26-35-39
Atlas Precision Products Co 3801 Castor Ave Philadelphia 24 Pa 2	631 Central Ave Carlstadt NJ 10-17-34	GM Mfg Co 134 W 26 St New York 1 NY 37
Auth Electric Co	Cutler-Hammer Inc 315 N 12 St Milwaukee 1 Wisc 14-25-34	Goldak Co 1544 W Glenoaks Blvd Glendale 1 Calif 29
34-20 45 St Long Island City 1 NY 1	Dallons Labs 5066 Santa	Hagan Chemicals & Controls Inc 6-15-26-31-
Avion Div ACF Industries Inc 11 Park Pl Paramus NJ 6-39	Monica Blvd Los Angeles 29 Calif 18 Dayen Co Route 10 Livingston NJ 4-42	Hagan Bldg Pittsburgh 30 Pa 36-37-39-40
Avionics Ltd	Daven Co Route 10 Livingston NJ 4-42 Davenport Mfg Co	Hal-Hen Co 36-14 11 St Long Island City 6 NY 20
PO Box 200 Niagara-on-the-Lake Ontario Canada 1	1713 N Ashland Ave Chicago 22 Ill 3	Hallicrafters Co
Bailey Meter Co	Dayton Aviation Radio & Equipment Corp R R 3 Troy Ohio 11-30	4401 W 5 Ave Chicago 24 III Hallikainen Instruments
1050 Ivanhoe Rd	Defender Instrument & Regulator Co	1341 7 St Berkeley 10 Calif
Cleveland 10 Ohio 23-26-34-36-37 Baker & Co	Boody Ill Delta Chemical Works	Hamilton Watch Co Allied Products Div
113 Astor St Newark 2 NJ 8-23	23 W 60 St New York 23 NY 20	Columbia Ave Lancaster Pa 26-41 Hastings-Raydist Inc
Baldwin-Lima-Hamilton Corp	De Mornay-Bonardi Corp	Newcomb Ave Hampton Va 26-40
Electronics & Instrumentation Div 42 4 Ave Waltham 54 Mass 26-35-39	780 S Arroyo Pkwy Pasadena Calif 11 Detroit Controls Corp Norwood	Hathaway Instrument Div
Rallantine Labs Inc	Controls Unit 934 Washington St	Hamilton Watch Co 5800 E Jewell Ave Denver 22 Colo 36
Boonton NJ 22	Norwood Mass 22-26-31-37	5800 E Jewell Ave Denver 22 Colo Haydon Co A W
Barber-Colman Co Rock St Rockford III 22-37	Devco Eng'g Inc P O Box 387 Caldwell NJ 1-14	232 N Elm St Waterbury 20 Conn 38
Barker & Williamson Inc	Devol Research Co Brookside Dr	Haydon Mfg Co 245 E Elm St Torrington Conn 38
Canal & Beaver Sts Bristol Pa 22-29-30	Greenwich Conn 16-27 Dice Co J W	Hays Corp Michigan City Ind 23-26
Barton Electronics Inc 1000 Farmington Ave W	16 Highwood Ave Englewood NJ 10-17	Heath Co
Hartford 7 Conn 15	Diehl Mfg Co Finderne Ave Somerville NJ 34	305 Territorial Rd Benton Harbor Mich 29 Heiland Div Minneapolis-Honeywell
Beckman/Berkeley Div	Doelcam Div Minn-Honeywell	5200 E Evans Ave
Beckman Instruments Inc 2200 Wright Ave 6-11-20-28-	1400 Soldiers Field Rd Boston 35 Mass 22	Denver 22 Colo 15-26-34-35-37-39-43
Richmond 3 Calif 29-31-36-38	Drake Mfg Co 1713 W Hubbard St Chicago 22 III 13	High Vacuum Equipment Corp 2 Churchill Rd Hingham Mass 40
Beckman Instruments Inc Process	Dudek & Co R C	Hill & Co E Vernon
Instruments Div 2500 Fullerton Rd . Fullerton Calif 20	407 N Maple Dr Beverly Hills Calif 29 Du Mont Labs Inc Allen B	P O Box 189 Lake Geneva Wisc 20-26-37 Hogan Labs Inc
Bell Aircraft Corp	760 Bloomfield Ave Clifton NJ 11-17-18	155 Perry St New York 14 NY
P O Box 1 Buffalo 5 NY 21-22-24-28-30-31-36-40	Dyna-Empire Inc 16-33 1075 Stewart Ave Garden City L I N Y	Hoover Electronics Co
Buffalo 5 NY 21-22-24-28-30-31-36-40 Belock Instrument Corp	Edison Industries Thomas A	3640 Woodland Ave Baltimore 7 Md 30
111-01 14 Ave College Point 56 NY 31	Instrument Div 93 Lakeside Ave 1-37	Hupp Instru/mation Co 2119 Sepulveda Blvd
Bendix Aviation Corp Pacific Div	W Orange NJ Eldema Corp 9844 Remer St El Monte Calif 6	Los Angeles 25 Calif 11-38
11600 Sherman Way N Hollywood Calif 36	Electrical Communications Inc 36	Illinois Testing Labs Inc
Bendix Aviation Corp	765 Clementina St San Francisco 3 Calif Electric Eye Equipment Co	420 N LaSalle St Chicago 18 III 8-3' I-L-S Instrument Corp
1104 Fisher Bldg	1941 E Fairchild St Danville Ill 10-17	4525 W 160 St Cleveland II Ohio 11-34-38
Detroit 2 Mich 16-17-20-21-24-29-36	Electro Impulse Lab Inc	Impact-O-Graph Corp
Bendix Aviation Corp Cincinnati Div 3130 Wasson Rd Cincinnati 8 Ohio 29	208 River St Red Bank NJ 25 Electro-Mechanical Instrument Co	1900 Euclid Ave Cleveland 15 Ohio 15-4
Benson-Lehner Corp	8 & Chestnut St Perkasie Pa 22	Indikon Co 76 Coolidge Hill Rd
11930 W Olympic Blvd	Electronic Tube Corp	Watertown 72 Mass 26-31-35-37-4.
Los Angeles 64 Calif	1200 E Mermaid Lane Philadelphia 18 Pa 35 Electro-Physics Co	Industrial Control Co
B & H Instrument Co 3479 W Vickery Blvd	287 Broadway New York 7 NY 13	805 Albin Ave
Ft Worth 7 Texas 37	7	Lindenhuret LL NV 99-39-35-37-37
	Electro Products Labs Inc 27-34-41	Lindenhurst LI NY 22-32-35-37-39 Industrial Electronic Engineers
Biddle Co James G	Electro Products Labs Inc 27-34-41 4501 N Ravenswood Ave Chicago 40 Ill Electro-Pulse Inc	Industrial Electronic Engineers 3973 Lankershim Blvd
	Electro Products Labs Inc 27-34-41 4501 N Ravenswood Ave Chicago 40 Ill	Industrial Electronic Engineers

Industrial Test Equipment Co 55 E 11 St New York 3 NY 7-22-31
55 E 11 St New York 3 NY 7-22-31 Instrument Labs 315 W Walton Pl
Chicago 10 Ill 14 International Research & Development Corp
797 Thomas Lane Columbus 16 Ohio 41 I Q Industries 1714 Westwood Blvd
I Q Industries 1714 Westwood Blvd
Los Angeles 24 Calif 14 Irwin Labs
1238 S Gerhart Ave Los Angeles 22 Calif 16
Jarvis Electronics Corp 1140 Cherry St Winnetka III 24
Johnson Aircraft Eng g Co M J
Morristown Airport Box Morristown NJ 12-22-31
Johnson Co E F Waseca Minn 2
Johnson Co E F Waseca Minn 2 Kartron P O Box 472 Huntington Beach Calif 32
Kay Electric Co
14 Maple Ave Pine Brook NJ 11-30
Keithley Instruments Inc 12415 Euclid Ave Cleveland 6 Ohio 5-9-18-22 King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio 34
King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio 34
Kinney mig Div vacuum Equip
Div NY Air Brake Co 3529 Washington St Boston 30 Mass 40
Vintal (Var Lah)
5725 Kearney Villa Rd San Diego 12 Calif Kirkland Co H R 8 King St Morristown 4 NJ 1
Kirkland Co H R
8 King St Morristown 4 NJ 1
Kistler Instrument Corp 15 Webster St N Tonawanda NY 41
Knopp Inc 4224 Holden St Oakland 8 Calif 22
Kollsman Instrument Corp
Standard Coil Products Sub 80-08 45 Ave Elmhurst 73 NY 26-34 Kybernetes Corp
Kybernetes Corp
9 E 40 St New York 16 NY 37
Lampkin Labs Inc R F D 1 Bradenton Fla 19 Land-Air Inc
7444 W. Wilson Aug Chiango 21 III 41
Land-Air Inc Instrument & Electronic Div 2133 Adams Ave San Leandro Calif 41
Landsverk Electrometer Co
550 W Garfield Ave Glendale 4 Calif 29 Larson Instrument Co
24 Orchard St Tarrytown NY 37
Lavoie Labs Inc Matawan-Freehold Rd Morganville NJ 6
Lear Inc 3171 S Bundy Drive
Santa Monica Calif 6-7-31
Leeds & Northrup Co 4970 Stenton Ave Philadelphia 44 Pa 37
Lotting King'er Co
339 Church St Naugatuck Conn 37 Liquidometer Corp 41-03 36 St Long Island City 1 NY 14-23-42 Litton Industries of Calif
41-03 36 St Long Island City 1 NY 14-23-42
336 N FOOthill Rd Beverly Hills Calli 6-21
Lumenite Electronic Co 407 S Dearborn St Chicago 5 Ill 38
Lytle Eng'g & Mfg Co 1404 San Mateo Blyd SE
1404 San Mateo Blvd SE Albuquerque New Mexico 38
Mack Electronics Div Mack Trucks Inc
40 Leon St Boston 15 Mass 31
Mack Electronics Div Inc Sub Mack Trucks Inc
1120 S 2 St Plainfield NJ 2
Magnaflux Corp 7300 W Lawrence Ave
Chicago 31 III 10-16-17-35
Magnecessories Box 6960 Washington 20 DC 16
Magnecessories Box 6960 Washington 20 DC 16 Magnetic Amplifiers Inc
Magnecessories Box 6960 Washington 20 DC 16 Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY 31
Magnecessories Box 6960 Washington 20 DC 16 Magnetic Amplifiers Inc
Magnecessories Box 6960 Washington 20 DC 16 Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY 31 Magtrol Inc 38 Virginia Pl Buffalo 2 NY 34-39 Manning Maxwell & Moore Inc
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Magnecessories         Box 6960 Washington 20 DC         16           Magnetic Amplifiers Inc         632 Tinton Ave New York 55 NY         31           Magtrol Inc         38 Virginia Pl Buffalo 2 NY         34-39           Manning Maxwell & Moore Inc         Shelter Rock Lane Danbury Conn         26-37-40           Manostat Corp 20-26 N Moore St         New York 13 NY         26-40
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Magnecessories         16           Box 6960 Washington 20 DC         16           Magnetic Amplifiers Inc         632 Tinton Ave New York 55 NY         31           Magtrol Inc         38 Virginia Pl Buffalo 2 NY         34-39           Manning Maxwell & Moore Inc         Shelter Rock Lane Danbury Conn         26-37-40           Manostat Corp 20-26 N Moore St         New York 13 NY         26-40           Marconi Instruments Ltd         44 New St New York 4 NY         7           Marion Electrical Instrument Co         Grenier Field Manchester NH         22-33-38           MB Mfg Co Div Textron Inc         1060 State St New Haven 11 Conn         41           Measurement Ene'g Ltd         41
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Magnecessories Box 6960 Washington 20 DC  Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY  Magtrol Inc 38 Virginia Pl Buffalo 2 NY  Manning Maxwell & Moore Inc Shelter Rock Lane Danbury Conn Manostat Corp 20-26 N Moore St New York 13 NY  Marconi Instruments Ltd 44 New St New York 4 NY Marion Electrical Instrument Co Grenier Field Manchester NH  MB Mfg Co Div Textron Inc 1060 State St New Haven 11 Conn Measurement Eng'g Ltd 232 John St Arnprior Ontario Can Menlo Research Lab 538 Phelan Ave San Jose Calif 29 Mercury Electronic Co
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Minn-Honeywell Regulator Co Aero D	iv
1433 Stinson Blvd Minneapolis Minn 6-22-	23-26-37
Minneapolis-Honeywell Regulator Co Industrial Div Wayne & Windrim Av	7es
Model Eng'g & Mfg Inc	26-37-40
50 Frederick St Huntington Ind Moeller Instrument Co	18
129-09 89 Ave Richmond Hill IX NY	31
Moisture Register Co 1510 W Chestnut St Alhambra Calif Muirhead Instruments Inc	20
677 5 Aye New York 22 NY Navco Navigation Computer Corp 1621 Snyder Ave Philadelphia 45 Pa	22-31
Nevada Air Products Co	(
P O Box 2472 Reno Nev	18-29
Non-Linear Systems Inc Del Mar Airport Del Mar Calif Norden-Ketay Corp Commerce Rd	•
Stamford Conn	26
North American Instruments Inc 2420 N Lake St Altadena Calif NRC Equipment Corp Sub National	26
Newton Highlands 61 Mass	40
NRD Instrument Co 6425 Etzel Ave St Louis 14 Mo Nucleonic Corp of America	29
Nucleonic Corp of America 196 Degraw St Brooklyn 31 NY	29
O'Brien Electric Corp 6514 Santa Monica Blvd Hollywood 38	Calif 1
Omega Instrument Co 103 E Altadena Dr Altadena Calif	26-41
Optron Corp  3526 State St Santa Barbara Calif	41
Pace Electrical Instruments Co 70-31 84 St Glendale 27 L I NY	42
Panellit Inc	
7401 N Hamlin Ave Skokie Ill Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 7-11- Parks Lab Henry Francis 920 Stambau	9-36-41
Parks Lab Henry Francis 920 Stambau	gh St
Redwood City Calif Partlow Corp 2 Campion Rd New Hartford NY	37
Partrick & Wilkins Co 51 N 7 St Philadelphia 6 Pa	14
Penn-East Eng'g Corp Willow St	21-24
Kutztown Pa Performance Measurements Co	
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Schaevitz Eng'g P O Box 505 Camden 1 NJ 15-17-26-	31-35-4
Scherr Co George 200 Lafayette St New York 12 NY Scientific Glass Apparatus Co	10-34-3
100 Lakewood Terrace Bloomfield NJ	20-37-4
Sensitive Research Instrument Corp	16-30-3
Serdex Inc	2
Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY Servonics Inc 822 N Henry St Alexandria Va Servo-Recording Instruments Inc	29-31-3
New Hyde Park NY	29-31-3
Alexandria Va	3
1819 W Van Duren St Fnoenik Ariz	2
Servo-Tek Products Co 1086 Goffle Rd Hawthorne NJ	3
Shannon Luminous Materials Co 7356 Santa Monica Blvd	
Hollywood 46 Calif	
Shurite Meters 61 Hamilton St New Haven 8 Conn	1
Signalite Inc 37 Neptune Hwy Neptune NJ	1
Simmonds Aerocessories Inc 105 White Plains Rd Tarrytown NY Skiatron Electronics & TV Corp	4
Skiatron Electronics & TV Corp 180 Varick St New York 14 NY	6-24-3
Skyway Precision Tool Co 825 E Broadway San Gabriel Calif	. 3
Solartron Electronic Group Ltd Queens Rd	
Thomas Ditton Surrey England	14-8
Southern Instruments Computer Div Frimley Rd Camberley Surrey Engla	and
Specialities Inc Skunks Misery Rd Syosset LI NY	13
Sperry Gyroscope Co Div Sperry Rand Great Neck NY	Corp
Sperry Products Inc Shelter Rock Rd Danbury Conn	10
Spivey Inc James S 4908 Hampden Lane Washington 14	DC 1:
Standard Electric Time Co 89 Logan St Springfield 2 Mass	
Stavid Eng'g Inc U S Route 22	
Stewart Instrument Co	21-24-30
6507 Grand River Detroit 8 Mich Sticht Co Herman H 27 Park Pl New York 7 NY	14
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Dynamics Corp 1895 Hancock St San Diego 12 Calif Sturtevant Co P A Addison III Surface Combustion Corp 2375 Dorr St Toledo 1 Ohio Systron Corp 2055 Concord Blvd Concord Calif Taller & Cooper 75 Front St Brooklyn 1 NY Sullivan Ltd H W 80 Shore Rd Port Washington NY Swan Electronics Co 5016 N Austin Ave Chicago 30 III Tatnall Measuring Systems Co Kimberton Rd Phoenixville Pa Telechrome Mfg Corp 28 Ranick Dr Amityville LI NY Teletronics Lab Inc 54 Kinkel St Westbury NY Tel-Instrument Electronics Corp 728 Garden St Carlstdat NJ Telrex Labs Asbury Park NJ Tempil Corp 132 W 22 St New York 11 NY Thermo Electric Co 109 5 St Saddle Brook NJ Touch-Plate Mfg Corp P O Box 1970 Long Beach 1 Calif Tracerlab Inc 1601 Trapelo Rd Waltham 54 Mass Trimount Instrument Co 3119 W Lake St Chicago 12 III Tri-R Instruments 24-15 44 Rd Long Island City 1 NY Union Switch & Signal Div Westinghouse Air Brake Co Braddock Ave Pittsburgh 18 Pa United Control Corp 4540 Union Bay Pl Seattle 5 Wash United Electric Controls Co 85 School St Wastertown 72 Mass United Electrodynamics 1200 S Marengo Ave Pasadena Calif Universal Atomics Corp 50 Bond St Westbury LI NY Uniowaye Inc 2 Marine St Farmingdale NY U S Gauge Div American Machine & Metals Sellersville Pa 2	39 8 11-14-26 36-38-39 35-36-37 22 30 35 7-11-36 11-28 41 29 26-40 18-37 6 1 137 36 29
Dynamics Corp 1895 Hancock St San Diego 12 Calif Sturtevant Co P A Addison III Surface Combustion Corp 2375 Dorr St Toledo 1 Ohio Systron Corp 2055 Concord Blvd Concord Calif Taller & Cooper 75 Front St Brooklyn 1 NY Sullivan Ltd H W 80 Shore Rd Port Washington NY Swan Electronics Co 5016 N Austin Ave Chicago 30 III Tatnall Measuring Systems Co Kimberton Rd Phoenixville Pa Telechrome Mfg Corp 28 Ranick Dr Amityville LI NY Teletronics Lab Inc 54 Kinkel St Westbury NY Tel-Instrument Electronics Corp 728 Garden St Carlstdat NJ Telrex Labs Asbury Park NJ Tempil Corp 132 W 22 St New York 11 NY Thermo Electric Co 109 5 St Saddle Brook NJ Touch-Plate Mfg Corp P O Box 1970 Long Beach 1 Calif Tracerlab Inc 1601 Trapelo Rd Waltham 54 Mass Trimount Instrument Co 3119 W Lake St Chicago 12 III Tri-R Instruments 24-15 44 Rd Long Island City 1 NY Union Switch & Signal Div Westinghouse Air Brake Co Braddock Ave Pittsburgh 18 Pa United Control Corp 4540 Union Bay Pl Seattle 5 Wash United Electric Controls Co 85 School St Watertown 72 Mass United Electric Controls Co 85 School St Watertown 72 Mass United Electric Controls Co 85 School St Watertown 72 Mass United Electric Controls Co 85 School St Watertown 72 Mass United Electric Controls Co 85 School St Watertown 72 Mass United Electrodynamics 1200 S Marengo Ave Pasadena Calif Universal Atomics Corp 50 Bond St Westbury LI NY Uniwave Inc 2 Marine St Farmingdale NY U S Gauge Div American Machine & Metals Selersville Pa 2 Vacuum-Electronic Eng'g Co	38 88 11-14-26 66-38-39 35-36-37 22 30 35 7-11-36 11-28 41 27 37 129 26-40 18-37 6 1 37 36 29 34 46-31-39
Dynamics Corp 1895 Hancock St San Diego 12 Calif Sturtevant Co P A Addison III Surface Combustion Corp 2375 Dorr St Toledo 1 Ohio Systron Corp 2055 Concord Blvd Concord Calif Taller & Cooper 75 Front St Brooklyn 1 NY Sullivan Ltd H W 80 Shore Rd Port Washington NY Swan Electronics Co 5016 N Austin Ave Chicago 30 III Tatnall Measuring Systems Co Kimberton Rd Phoenixville Pa Telechrome Mfg Corp 28 Ranick Dr Amityville LI NY Teletronics Lab Inc 54 Kinkel St Westbury NY Tel-Instrument Electronics Corp 728 Garden St Carlstdat NJ Telrex Labs Asbury Park NJ Tempil Corp 132 W 22 St New York 11 NY Thermo Electric Co 109 5 St Saddle Brook NJ Touch-Plate Mfg Corp P O Box 1970 Long Beach 1 Calif Tracerlab Inc 1601 Trapelo Rd Waltham 54 Mass Trimount Instrument Co 3119 W Lake St Chicago 12 III Tri-R Instruments 24-15 44 Rd Long Island City 1 NY Union Switch & Signal Div Westinghouse Air Brake Co Braddock Ave Pittsburgh 18 Pa United Control Corp 4540 Union Bay Pl Seattle 5 Wash United Electric Controls Co 85 School St Watertown 72 Mass United Electric Controls Co 2 Mariene St Farmingdale NY Union Switch & Signal Div Universal Atomics Corp 50 Bond St Westbury LI NY Universal Atomics Corp 50 Bond St Watertown 72 Mass United Electrodynamics 1200 S Marengo Ave Pasadena Calif Universal Atomics Corp 50 Bond St Westbury LI NY Univave Inc 2 Marine St Farmingdale NY U S Gauge Div American Machine & Metals Sellersville Pa 2 Vacuum-Electronic Eng'g Co	38 88 11-14-26 66-38-39 35-36-37 22 30 35 7-11-36 11-28 41 27 37 129 26-40 18-37 6 1 37 36 29 34 46-31-39

Varo Mfg Co	American Air Filter Co	Cornelius Co
2201 Walnut St Garland Texas 11 Victoreen Instrument Co	215 Central Ave Louisville 8 Ky American Electronic Laboratories	550 39 Ave NE William Police
5806 Hough Ave Cleveland 3 Ohio 29	121 N 7 St Philadelphia 6 Pa 11	Corning NY
Victory Eng'g Corp 117 Springfield Rd Union NJ 23-37	American Gyro Corp 3030 Nebraska Ave Santa Monica Calif 21	Crescent Eng'g & Research Co 5440 N Peck Rd El Monte Calif 21
Virginia Electronics Co	American Mica Insulation Co	Cutler-Hammer Inc 315 N 12 St Milwaukee 1 Wis 12
River Rd & B&O RR Washington 16 DC 42 WacLine Inc 35 S St	235 Parker Ave Manasquan NJ 12 American Speedlight Corp	Dallons Labs
Clair St Dayton 2 Ohio 22-34-41-42 Waltham Watch Co	63-01 Metropolitan Ave	5066 Santa Monica Blvd Los Angeles 29 Calif 6-12-15-21-23-25-27
221 Crescent St Waltham #4 Mass co	Amplivox Ltd	Dalmotor Co Div Dalmo Victor Co
Warsaw Coil Co Segal St Warsaw Ind 30 Waters Mfg Inc	2 Bentiner St London W I England 21	Div Textron Inc 1375 Clay St Santa Clara Calif 5
Boston Post Rd Wayland Mass	Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 26	Dalmo Victor Co Div Textron Inc
Weathers Industries Div Advance Industries 66 E Gloucester Pike	Annis Co R B	Dampp-Chaser Inc
Barrington NJ	Anton Electronic Labs	Box 520 Hendersonville NC Darco Industries Inc Gyro Dynamics Div
195 E Merrick Rd Freepowt I I NIV	1226 Flushing Ave Brooklyn 6 NY 1-11-19 Applied Physics Corp	2151 E Rosecrans Ave El Segundo Cam
West Coast Research Corn	362 W Colorado St Pasadena 1 Calif 15	Datran Electronics 3615 Aviation Blvd
2371½ Westwood Blvd 6-15-21-24-27- Los Angeles 64 Calif 31-35-36-37	Artisan Electronics Corp 171 Ridgedale Ave Morristown NJ 1	Manhattan Beach Calif 21
Westinghouse Electric Corp	Atlantic Research Corp	Davenport Mfg Co 1713 N Ashland Ave Chicago 22 Ill 7-18
P O Box 868 Pittsburgh 30 Pa 11-30-34-36-37-38	901 N Columbus St Alexandria Va 21 Atomic Labs Inc	Daytronic Corp 216 S Main St Dayton 2 Ohio 21
West Instrument Corp	3086 Claremont Ave Berkeley 5 Calif 15	Design Aginting Corn
" eston Electrical Instrument Corn	Autron Eng'g Inc 1254 W 6 St Los Angeles 17 Calif 20-21	1361 Frankford Ave Philadelphia 25 Pa Detroit Controls Corp
Sub Daystrom Inc 5-11-13-20-33-614 Frelinghuysen Ave Newark 12 NJ 37-42	Baldwin-Lima-Hamilton Corp Electronics & Instrumentation Div	Nonwood Control Unit
Westionies inc	42 4 Ave Waltham 54 Mass	Di-mond Power Specialty Corp
3605 McCart Ft Worth Texas 11-31-37 White & Son Sons Wilfrid O	Barco Chemical Products Co 701 LaSalle St Chicago 5 Ill 23	Lancaster Ohio
178 Atlantic Ave Boston 10 Mass Yellow Springs Instrument Co	Barton Electronics Inc 1000 Farmington Ave W Hartford 7 Conn 19	16 Highwood Ave Englewood NJ 9-13-20
P U Box 106 Yellow Springs Ohio 37-39	Dockman Instruments Inc Process	Donner Scientific Co 888 Galindo St Concord Calif 21
Zernickow Co O 15 Park Row New York 38 NY 84	Instruments Div 2500 Fullerton Rd Fullerton Calif 2	Driver Co Wilbur B 1875 McCarter Hwy Newark 4 NJ 12
2014 00 111 04	n t 6. Whitley	Dumont Labs Inc Allen B
31—INDUSTRIAL ELEC-	973 E San Carlos Ave San Carlos Cam	Eastman Kodak Co
TRONIC EQUIPMENT	D O D W 1 Duffelo 5 NY	343 State St Rochester 4 NY 14 Edgerton, Germeshausen & Grier
	Bendix Aviation Corp Pioneer-Central Div 2734 Hickory Grove Rd Davenport Iowa 23	160 Brookline Ave Boston 15 Mass
Actuators	Bendix Aviation Corn 1104 Fisher Bldg Detroit 2 Mich 1-19-23	Edin Co 207 Main St Worcester 8 Mass 2
chemical 2	Renson-Lehner Corp	Electomic Mechanisms Inc
Bolancing equipment, dynamic . 3	11930 W Olympic Blvd Los Angeles 64 Calif 11-16	Electrical Eng'g & Mfg Corp
Dielectric heating equipment A	D & F Instruments Inc	4612 W Jefferson Blvd Los Angeles 16 Calif
Dynameters	B I Floatronics Rorg-Warner Corp	Electrical Specialty Co
Electric furnaces	3300 Newport Ave Santa Ana Calif Black Light Corp of America	Electric Furnace Co
Electroploting equipment	5114 Walnut Grove Ave	W Wilson St Salem Ohio  Electric Hotpack Co
Flaw locators, metal 9	San Gabriel Calif Black Light Eastern Corp	Cottman Ave & Melrose St
Flow locators, non metal 10	33-00 Northern Blvd	Philadelphia 35 Pa Electro-Chemical Eng'g & Mfg Co
Geophysical instruments 11 Heating elements 12	Black Light Products Inc 53 W	750 Broad St Emmaus Pa 8
Induction heating equipment 13	Jackson Blvd Chicago 4 III	Electro-Flex Heat Inc 83 Woodbine St Hartford 6 Conn 12
Infrared equipment	Chatham St Blue Island III Bogue Electric Mfg Co Iowa Ave	Electro-Mechanical Div General Riveters Inc 785 Hertel Ave Buffalo 7 NY 1-5
Ionization chambers 15	Determine 3 N.I	Electronic Assembly Co
Meteorological equipment 16 Ovens, infra-red drying 17	Boonton Radio Corp Intervale Rd	Electronic Processes Corp of Calif
Precipitators, electrostatic 18	Bosch Inc M Ten 80 Wheeler Ave	2190 Folsom St San Francisco 10 Calif 4 Electronics Development Co
Thickness equipment, electronic 19	Rourns Labs Inc	3743 N Cahuenga Blvd N Hollywood Calif 22
Thickness equipment, ultrasonic 20	6135 Magnolia Ave Riverside Calif Branson Instruments Inc 37 Brown	Electro Products Labs Inc 4501 N Ravenswood Ave Chicago 40 Ill 21
Transducers	House Rd Stamford Conn	Elektro Serv Co 480 Johnson Ave Brooklyn 37 NY
Ultrasonic cleaners 23	Bristol Co P O Box 1790 EITT Waterbury 20 Conn 1-2-21	El-Tronics Inc
Ultrasonic soldering 24	Brush Electronics Co Div Clevite Corp 3405 Perkins Ava Cleveland 14 Ohio 21	Penn Ave Mayfield Pa 15 Emerson-Sack-Warner Corp
Ultra-violet equipment	Brush Electronics Co Texas Div	85 Washington St Somerville 43 Mass 17 Endevco Corp
Vacuum tube aging racks 26	3732 Westheimer Rd Houston 6 Texas 11 Rurdick Corp 635 Plumb St Milton Wisc 14-25	161 E California St Pasadena Calif 21
Vibrators, ultrasonic 27	Burroughs Corp	Enthone Inc 442 Elm St New Haven 8 Conn 8-23
Acme Electric Heating Co	Buss-Clement-Doughten & Associates	Ercona Corp
1217 Washington St Boston 18 Mass 12 Acoustica Associates Shore Rd	201 B Studio Hill Chester Springs Pa 22	551 5 Ave New York 17 NY 11
Glenwood Landing L I NY 21-23-24-27	Carborundum Co Globar Div Hyde	
Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 22	Carborundum Co Globar Div Hyde Park Blyd Niagara Falls NY 12	Erie Resistor Corp 644 W 12 St Erie 6 Pa 21
	Park Blvd Niagara Falls NY 12 Cavitron Electron Oscillator Co Div Short Wave Plastic Forming	Erie Resistor Corp
Advanced Instruments Inc	Park Blvd Niagara Falls NY Cevitron Electron Oscillator Co Div Short Wave Plastic Forming 355 N Newbort Blvd Newport Beach Calif 21	Erie Resistor Corp 644 W 12 St Erie 6 Pa 21 Falstrom Co 1 Falstrom Court Passaic NJ 26 Federal Mfg & Eng'g Corp
	Park Blvd Niagara Falls NY Cevitron Electron Oscillator Co Div Short Wave Plastic Forming 355 N Newbort Blvd Newport Beach Calif 21 Chesapeake Instrument Corp Shadyside Md 21-23	Erie Resistor Corp 644 W 12 St Erie 6 Pa 21 Falstrom Co Falstrom Court Passaic NJ 26 Federal Mfg & Eng'g Corp 1055 Stewart Ave Garden City NY 1 Federated Metals Div American
Advanced Instruments Inc 21 Oakcrest Rd Needham 92 Mass 2 Aerojet-General Corp 6352 N Irwindale Ave Azusa Calif 14	Park Blvd Niagara Falls NY Cavitron Electron Oscillator Co Div Short Wave Plastic Forming 355 N Newbort Blvd Newport Beach Calif 21 Chesapeake Instrument Corp Shadyside Md Chicago Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III	Erie Resistor Corp 644 W 12 St Erie 6 Pa 21 Falstrom Co Falstrom Court Passaic NJ 26 Federal Mfg & Eng'g Corp 1055 Stewart Ave Garden City NY 1 Federated Metals Div American Smelting & Refining Co
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Advanced Instruments Inc 21 Oakcrest Rd Needham 92 Mass 2 Aerojet-General Corp 6352 N Irwindule Ave Azusa Calif Aerotec Corp Pemberwick Rd Greenwich Conn 18 Airborne Accessories Corp 1414 Chestnut Ave Hillside 5 NJ 1 Air-Maze Corp	Park Blvd Niagara Falls NY Cavitron Electron Oscillator Co Div Short Wave Plastic Forming 355 N Newbort Blvd Newport Beach Calif 21 Chosapeake Instrument Corp Shadyside Md Chicaro Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London S E 26 England Uark Electronic Labs Box 165 Palm Springs Calif 21	Erie Resistor Corp 644 W 12 St Erie 6 Pa 21 Falstrom Co Falstrom Court Passaic NJ Federal Mfg & Eng'g Corp 1055 Stewart Ave Garden City NY Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 NY Fischer & Co R A 517 Commercial St Glendale 3 Calif Fisher Research Lab 1961 University Ave Palo Alto Calif 25
Advanced Instruments Inc 21 Oakcrest Rd Needham 92 Mass Aerojet-General Corp 6352 N Irwindule Ave Azusa Calif Aerotec Corp Pemberwick Rd Greenwich Conn Airborne Accessories Corp 1414 Chestnut Ave Hillside 5 NJ 1 Air-Maze Corp 25000 Miles Rd Cleveland 28 Ohio Air Transport Mfg Co	Park Blvd Niagara Falls NY Cavitron Electron Oscillator Co Div Short Wave Plastic Forming 355 N Newbort Blvd Newport Beach Calif 21 Chesapeake Instrument Corp Shadyside Md Chicago Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London S E 26 England Clark Electronic Labs Box 165 Palm Springs Calif Colvin Labs Inc 12 Colvin Labs Inc	Eric Resistor Corp 644 W 12 St Eric 6 Pa 21 Falstrom Co Falstrom Court Passaic NJ Federal Mfg & Eng'g Corp 1055 Stewart Ave Garden City NY Federated Metals Div American Smelting & Reflning Co 120 Broadway New York 5 NY Fischer & Co R A 517 Commercial St Glendale 3 Calif Fisher Research Lab
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Advanced Instruments Inc 21 Oakcrest Rd Needham 92 Mass 2 Aerojet-General Corp 6352 N Irwindule Ave Azusa Calif Aerotec Corp Pemberwick Rd Greenwich Conn Airborne Accessories Corp 1414 Chestnut Ave Hillside 5 NJ 1 Air-Maze Corp 25000 Miles Rd Cleveland 28 Ohio Air Transport Mfg Co 1114 N Sycamore Ave Los Angeles 38 Calif Alcar Instruments Inc	Park Blvd Niagara Falls NY Cavitron Electron Oscillator Co Div Short Wave Plastic Forming 355 N Newbort Blvd Newport Beach Calif 21 Chesapeake Instrument Corp Shadyside Md Chicago Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London S E 26 England Clark Electronic Labs Box 165 Palm Springs Calif Colvin Labs Inc 364 Glenwood Ave E Orange NJ 21	Eric Resistor Corp 644 W 12 St Eric 6 Pa 7alstrom Co Falstrom Court Passaic NJ 7ederal Mfg & Eng'g Corp 1055 Stewart Ave Garden City NY 7ederated Metals Div American 7smelting & Reflning Co 120 Broadway New York 5 NY 7escher & Co R A 717 Commercial St Glendale 3 Calif 7esher & Co R A 718 University Ave Palo Alto Calif 7esher Scientific Co 711 Forbes St Pittsburgh 22 Pa 7elanders Mill Inc 7el O Box 718 Riverhead NY 7el Sterer-Teichmann Co
Advanced Instruments Inc 21 Oakcrest Rd Needham 92 Mass 2 Aerojet-General Corp 6352 N Irwindule Ave Azusa Calif Aerotec Corp Pemberwick Rd Greenwich Conn 18 Airborne Accessories Corp 1414 Chestnut Ave Hillside 5 NJ 1 Air-Maze Corp 25000 Miles Rd Cleveland 28 Ohio 18 Air Transport Mfg Co 1114 N Sycamore Ave Los Angeles 38 Calif Alcar Instruments Inc 17 Industrial Ave Little Ferry NJ 20-21-24	Park Blvd Niagara Falls NY Cavitron Electron Oscillator Co Div Short Wave Plastic Forming 355 N Newbort Blvd Newport Beach Calif 21 Chesapeake Instrument Corp Shadyside Md Cricaro Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London S E 26 England Uclark Electronic Labs Box 165 Palm Springs Calif Colvin Labs Inc 364 Glenwood Ave E Orange NJ Conn Hard Rubber Co P O Box 1911 New Haven 9 Conn Conflow Corp 2100 Arch St Philadelphia 3 Pa 1	Eric Resistor Corp 644 W 12 St Eric 6 Pa 7alstrom Co Falstrom Court Passaic NJ 7ederal Mfg & Eng'g Corp 1055 Stewart Ave Garden City NY 7ederated Metals Div American Smelting & Refining Co 120 Broadway New York 5 NY 7eischer & Co R A 517 Commercial St Glendale 3 Calif 7eisher Research Lab 1961 University Ave Palo Alto Calif 7isher Scientific Co 711 Forbes St Pittsburgh 22 Pa 7eischer & Mill Inc P O Box 718 Riverhead NY 7erter-Teichmann Co 1212 Clark Bldg Pittsburgh 22 Pa 7eischer & Corp. 7eiser Research Lab 7eisher Scientific Co 7eisher Scienti
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Advanced Instruments Inc 21 Oakcrest Rd Needham 92 Mass 2 Aerojet-General Corp 6352 N Irwindule Ave Azusa Calif 14 Aerotec Corp Pemberwick Rd Greenwich Conn 18 Airborne Accessories Corp 1414 Chestnut Ave Hillside 5 NJ 1 Air-Maze Corp 25000 Miles Rd Cleveland 28 Ohio 18 Air Transnort Mfg Co 1114 N Sycamore Ave Los Angeles 38 Calif Alear Instruments Inc 17 Industrial Ave Little Ferry NJ 20-21-24 Allied Eng'g & Production Corp 2421 Blanding Ave Alameda Calif Alis-Chalmers Mfg Co Milwaukee 1 Wis 13 Allis Co Louis	Park Blvd Niagara Falls NY Cavitron Electron Oscillator Co Div Short Wave Plastic Forming 355 N Newbort Blvd Newport Beach Calif 21 Chesapeake Instrument Corp Shadyside Md Chicaro Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London S E 26 England Urark Electronic Labs Box 165 Palm Springs Calif Colvin Labs Inc 364 Glenwood Ave E Orange NJ Conn Hard Rubber Co P O Box 1911 New Haven 9 Conn Conoflow Corp 2100 Arch St Philadelphia 3 Pa Consolidated Avionics Corp 66 Brooklyn Ave Westbury NY Consolidated Electrodynamics Orp 300 N Sierra Madre Villa Pasrdena Calif 2-21-25	Eric Resistor Corp 644 W 12 St Eric 6 Pa 7alstrom Co Falstrom Court Passaic NJ Federal Mfg & Eng'g Corp 1055 Stewart Ave Garden City NY Federated Metals Div American Smelting & Reflning Co 120 Broadway New York 5 NY Fischer & Co R A 517 Commercial St Glendale 3 Calif Fisher Research Lab 1961 University Ave Palo Alto Calif Fisher Scientific Co 711 Forbes St Pittsburgh 22 Pa Flanders Mill Inc P O Box 718 Riverhead NY Forter-Teichmann Co 1212 Clark Bldg Pittsburgh 22 Pa Fostoria Pressed Steel Corp N Main St Fostoria Ohio Foto-Video Labs Inc 25 Amity St Little Falls NJ Gardiner Electronics Co
Advanced Instruments Inc 21 Oakcrest Rd Needham 92 Mass 2 Aerojet-General Corp 6352 N Irwindule Ave Azusa Calif 14 Aerotec Corp Pemberwick Rd Greenwich Conn 18 Airborne Accessories Corp 1414 Chestnut Ave Hillside 5 NJ 1 Air-Maze Corp 25000 Miles Rd Cleveland 28 Ohio 18 Air Transport Mfg Co 1114 N Sycamore Ave Los Angeles 38 Calif 26 Alcar Instruments Ine 17 Industrial Ave Little Ferry NJ 20-21-24 Allied Fng's & Production Corp 2421 Blanding Ave Alameda Calif Alis-Chalmers Mfg Co Milwaukee 1 Wis 13	Park Blvd Niagara Falls NY Cavitron Electron Oscillator Co Div Short Wave Plastic Forming 355 N Newbort Blvd Newport Beach Calif 21 Chosapeake Instrument Corp Shadyside Md Chicaro Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London S E 26 England Clark Electronic Labs Box 165 Palm Springs Calif Colvin Labs Inc 364 Glenwood Ave E Orange NJ Conn Hard Rubber Co P O Box 1911 New Haven 9 Conn 12 Connflow Corp 2100 Arch St Philadelphia 3 Pa Consolidated Avionics Corp 66 Brooklyn Ave Westbury NY Consolidated Electrodynamics Corp 300 N Sierra Madre Villa	Erie Resistor Corp 644 W 12 St Erie 6 Pa 7

Gates & Co Geo W		Johnson Aircraft Eng'g Co M J		North American Electric Lamp Co	
Hempstead Toke & Lucille Ave Franklin Square LI NY	25	Box 10 Morristown Airport Morristown NJ		1520 N 13 St St Louis 6 Mo	4
Geartronics Corp	20	Kahl Scientific Instrument Corp	1-11	North American Instruments Inc 2420 N Lake St Altadena Calif 2	1
2514 Broadway Long Island City NY	1	P O Box 1166 El Cajon Calif	16	Norton Co	1
General Controls Co 801 Allen Ave Glendale 1 Calif		Kahn & Co	2.0	1 New Bond St Worcester 6 Mass	2
General Electric Co Apparatus Sales Div	1	541 Windsor St Hartford 1 Conn Kanthal Corp	26	NRD Instrument Co 6425 Etzel Ave St Louis 14 Mo	
1 River Rd Schenectady 5 NY 5-1	2-21	Amelia Pl Stamford Conn	12	Nuclear-Chicago Corp	o
General Electric Co Light Military		Kemlite Labs Inc		223 W Erie St Chicago 10 Ill 1.	5
Electronic Equip Dept French Rd Utica NY	1.4	1819 W Grand Ave Chicago 22 III	7-25	Nuclear Corp of America Empire State Bldg New York NY	
General Kinetics Inc	14	Kistler Instrument Corp 15 Webster St N Tonawanda NY	21	Nucleonic Corp of America	5
555 23 St S Arlington 2 Va	23	Knights Co James	4. I	196 Degraw St Brooklyn 31 NY	5
General Nuclear Corp		Church & Wells Sts Sandwich Ill	21	Nucleonic Products Co	
550 5 Ave New York 32 NY General Precision Lab Inc	23	Lab Corp E Onondaga Skaneateles NY		1601 Grande Vista Ave Los Angeles 23 Calif	
63 Bedford Rd Pleasantville NY	22	Laboratory Equipment Corp	5	Oakite Products Inc	**
Geotronic Labs Inc		P O Box 151 St Joseph Mich	13	79 Rector St New York 6 NY	3
1314 Cedar Hill Ave Dallas 8 Texas Giannini & Co G M	11	Land-Air Inc Instrument & Electronic		Ohio Crankshaft Co Tocco Div 3800 Harvard Ave Cleveland 5 Ohio	0
918 E Green St Pasadena Calif	21	2133 Adams Ave San Leandro Calif Landsverk Electrometer Co	2-19	Unmart Corp	6
Gisholt Machine Co	41	550 W Garfield Ave Glendale 4 Calif	15	2236 Bogen St Cincinnati 14 Ohio	5
1245 E Washington Ave Madison 10 Wis	3	Lansing Sound Inc James B		Opto Eng'g Co 3524 W Washington Blvd	
Glens Falls Lab Box 685 Glens Falls NY	0.5	3249 Casitas Ave Los Angeles 39 Cali Leeds & Northrup Co	f 21	1.08 Angeles 18 Calif	.1
Globe Industries Inc	25	4970 Stenton Ave Philadelphia 44 Pa	2-6-14	Oster Mfg Co John	•
1784 Stanley Ave Dayton 4 Ohio	1	Lepel High Frequency Labs		I Main St Racine Wis Pace Eng'g Co	1
Gordon Enterprises		54-18 37 Ave Woodside 77 NY Leupold & Stevens Instruments Inc	4-13-24	6914 Beck Ave N Hollywood Calif	1
5362 N Cahuenga Blvd N Hollywood Calif 7-1	1 14	4445 NE Glisan St Portland 13 Ore	21	Pacific Semiconductors Inc	
Grand Ra-Tronics Inc	1-14	Lindberg Eng'g Co		10451 W Jefferson Blvd Culver City Calif 1.	4
17360 Hayes Rd Grand Haven Mich	21	2450 W Hubbard St Chicago 12 III	6-13	Packard Bell Electronics Corp 12333 W Olympic Blvd	
Graybar Electric Co		Linde Air Products Co Div Union Carbide & Carbon Co 30 E 42 St		Los Angeles 64 Calif	4
420 Lexington Ave New York 17 NY Greer Hydraulics Inc	22	New York 17 NY	14	Panellit Inc	
Int'l Airport Jamaica 30 NY	1	Litton Industries of Calif		7401 Hamlin Ave Skokie Ill Pegasus Labs Inc	1
Grieve-Hendry Co	-	336 N Foothill Rd Beverly Hills Cali Lydon Bros	f 14	3690 W 11 Mile Rd Berkley Mich	1
1401 W Carroll Ave Chicago 7 Ill Guild Electronics Inc	6	85 Zabriskie St Hackensack NJ	6	Pereny Equipment Co	
388 Broadway New York 13 NV	4	Lyndon Aircraft Inc	Ü	893 Chambers Rd Columbus 12 Ohio Perkin-Elmer Corp	6
Gulton Industries Inc	**	140 Clifford St Newark 5 NJ	1	Main Ave Norwalk Conn	0
212 Durham Ave Metuchen NJ 20-23	3-24	McDowell Electronics Inc 105 Forrest St Metuchen NJ	13	Phileo Corp Govt & Industrial Div	4
Hacker & Co Wm J 82 Beaver St New York 5 NY	0.5	McKenna Laboratories	10	4700 Wissahickon Ave	
nagan Chemicals & Controls Inc	25	2503 Main St Santa Monica Calif	21	Philadelpha 44 Pa Philips Electronics Inc	2
Hagan Bldg Pittsburgh 30 Pa	21	Mack Electronics Div Inc Sub Mack Trucks Inc		750 S Fulton Ave Mt Vernon NY	Ω
Hallamore Electronics Co		1120 S 2 St Plainfield NJ	21-27	Phillips Mig Co	,
8352 Brookhurst Ave Anaheim Calif Haller Raymond & Brown	22	Magnaflux Corp		3475 W Toughy Ave Chicago 45 Ill 28 Photobell Co	3
124 N Atherton St State College Pa	14	7300 W Lawrence Ave Chicago 31 Ill 9 Magtrol Inc	-10-25	10 77	
Hancock Electronics Corn		38 Virginia Pl Buffalo 2 NY	5	Photocon Research Products	1
2553 Middlefield Rd Redwood City Calif Hanovia Chemical & Mfg Co	22	Majestic Int'l Corp	Ü	421 N Altadena Drive Pasadena Calif	7
100 Chestnut St. Newark 5 NT	2	79 Washington St Brooklyn 1 NY Marion Electrical Instrument Co	22	Potter & Brumfield Inc 1200 E Broadway Princeton Ind	
narper Electric Furnace Corn	-	Grenier Field Manchester NH	13	Production Research Corp	1
56 River St Buffalo 2 NY Harris Transducer Corp	6	Massa Laboratories Inc	10	Thornwood NY 14	4
Woodbury Conn	-27	5 Fottler Rd Hingham Mass Master Appliance Mfg Co	21	Pye Canada Ltd	
Darwood Electronics Co		530 4 St Racine Wis	18	82 Northline Rd Toronto 16 Ontario Canada 2-11-13-14-21-22	0
466 W Superior St Chicago 10 III	7	Matthew Labs	10	Racon Electric Co	-
Hathaway Instrument Div Hamilton Watch Co 5800 E Jewell Ave		146 Riverdale Ave Yonkers NY	2	1261 Broadway New York 1 NY 27	7
Denver 22 Colo	21	Measurement Eng'g Ltd 232 John St Arnprior Ontario Can	15-26	Radex Corp	
Hauman Instruments Co		Mech-Tronic Equipment Co	10-20	2076 Elston Ave Chicago 14 Ill 18 Radiation Inc	5
70 Coolidge Hill Rd Watertown 72 Mass Haydon Switch Inc	7	P O Box 510 Silver Spring Md	6-17	P O Box 37 Melbourne Fla 5	5
536 S Leonard St Waterbury Conn	1	Menlo Research Lab 538 Phelan Ave San Jose Calif	9-25	Radio Corp of America	
Heiland Div Minneanolis-Honeywell	1	Merz Eng'g Inc	9-20	Camden 2 NJ Radio Eng'g Co	2
5200 E Evans Ave Denver 22 Colo Hett Associates	3-7	200 S Harding St Indianapolis Ind	19	8 State St New York 4 NY	7
603 Grand Ave Englewood NJ	1.4	Micro Balancing Inc 191 Herricks Rd Garden City Park NY	3	Radio Frequency Co	
Hevi-Duty Electric Co	14	Mil Case Corp	ð	44 Park St Medfield Mass 4-13	Š
4212 W Highland Blvd Milwaukee 1 Wis	6	35-18 37 St Long Island City NY	26	Radio Receptor Co 240 Wythe Ave Brooklyn 11 NY 4	4
Hickok Electrical Instrument Co		Milli-Switch Corp		Rahm Instruments Inc	1
10514 Dupont Ave Cleveland 8 Ohio Humphrey Inc	22	1742 Berkeley St Santa Monica Calif MinAtron Corp	1	237 Lafayette St New York 12 NY 21	l
2805 Canon St San Diego Calif	21	Belle Mead 9 NJ	21	Rapid Electroplating Process 1414 S Wabash Ave Chicago 5 Ill 8	
Huppert Co K H		Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn	1.4	Raytheon Mfg Co	
6830 Cottage Grove Ave Chicago 37 Ill Ideal-Aerosmith Inc	6	Minn-Honeywell Regulator Co	14	100 River St Waltham 54 Mass 18	3
12909 S Cerise Ave Hawthorne Calif	21	2753 4 Ave S Minneanolis & Minn	1-7	Reeve Electronics Inc	
iE Mfg		Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn		609 W Lake St Chicago 6 Ill 4-13 Reliance Electric and Eng'g Co	,
325 N Hoyne Ave Chicago 12 Ill	26	Miskella Infra-Red Co	1	24701 Euclid Ave Cleveland 17 Ohio 5	í
Induction Heating Corp 181 Wythe Ave Brooklyn 11 NY 4	-13	E 73 & Grand Ave Cleveland 4 Ohio 12	-14-17	Resdel Eng'g Corp	
Industrial Electronics Inc	-10	Missileonics Inc P O Box 716 Melbourne Fla		330 S Fair Oaks Ave Pasadena Calif 4	
8060 Wheeler St Detroit 10 Mich			_	Posennah Davidonmant Mf- Tu-	ŀ
Industrial Engig & Four Co	21		7	Research Development Mfg Inc 429 E Collom St Philadelphia 41 Pa	•
Industrial Eng'g & Equip Co	21	Modelectric Products Corp Asbury Park NJ		Research Development Mfg Inc 429 E Collom St Philadelphia 41 Pa Research Electronics Lab	•
24 Hanley Industrial Ct Brentwood		Modelectric Products Corp Asbury Park NJ Model Rectifier Corp	7	429 E Collom St Philadelphia 41 Pa 1 Research Electronics Lab Roslyn Pa 19	l
24 Hanley Industrial Ct Brentwood St Louis 17 Mo Industrial Nucleonics Corp	12	Modelectric Products Corp Asbury Park NJ Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NV		429 E Collom St Philadelphia 41 Pa 1 Research Electronics Lab Roslyn Pa 19 Richardson Labs Kenneth	l )
24 Hanley Industrial Ct Brentwood St Louis 17 Mo Industrial Nucleonics Corp 1205 Chesapeake Ave Columbus 12 Ohjo	12	Modelectric Products Corp Asbury Park NJ Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Laboratory Equip Co 1811 1 Ave New York 28 NY	7 8	429 E Collom St Philadelphia 41 Pa Research Electronics Lab Roslyn Pa Richardson Labs Kenneth 254 Vincent Ave Lynbrook NY 4	l )
24 Hanley Industrial Ct Brentwood St Louis 17 Mo Industrial Nucleonics Corp 1205 Chesapeake Ave Columbus 12 Ohio Industrial Test Equipment Co	12 19	Modelectric Products Corp Asbury Park NJ Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Laboratory Equip Co 1811 1 Ave New York 28 NY Moore Corp John B	7	429 E Collom St Philadelphia 41 Pa 1 Research Electronics Lab Roslyn Pa Richardson Labs Kenneth 254 Vincent Ave Lynbrook NY 4 Robotron Corp 21300 W 8 Mile Rd Detroit 19 Mich 4-13	l )
24 Hanley Industrial Ct Brentwood St Louis 17 Mo Industrial Nucleonics Corp 1205 Chesapeake Ave Columbus 12 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY	12	Modelectric Products Corp Asbury Park NJ Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Laboratory Equip Co 1811 I Ave New York 28 NY Moore Corp John B P O Box 3 Dept EI Peerless Bldg	7 8 6-12	429 E Collom St Philadelphia 41 Pa       1         Research Electronics Lab       19         Roslyn Pa       19         Richardson Labs Kenneth       19         254 Vincent Ave Lynbrook NY       4         Robotron Corp       21300 W 8 Mile Rd Detroit 19 Mich       4-13         Rockwell Co W S       4	1
24 Hanley Industrial Ct Brentwood St Louis 17 Mo Industrial Nucleonics Corp 1205 Chesapeake Ave Columbus 12 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY Industrial TV Inc	12 19 11	Modelectric Products Corp Asbury Park NJ Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Laboratory Equip Co 1811 I Ave New York 28 NY Moore Corp John B P O Box 3 Dept EI Peerless Bldg Nutley 10 NJ Muirhead Instruments Inc	7 8	429 E Collom St Philadelphia 41 Pa       1         Research Electronics Lab       19         Roslyn Pa       19         Richardson Labs Kenneth       254 Vincent Ave Lynbrook NY         Robotron Corp       21300 W 8 Mile Rd Detroit 19 Mich         Rockwell Co W S       220 Eliot St Fairfield Conn         6-17	1
24 Hanley Industrial Ct Brentwood St Louis 17 Mo Industrial Nucleonics Corp 1205 Chesapeake Ave Columbus 12 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY Industrial TV Inc 369 Lexington Ave Clifton NJ Instrumentation Associates	12 19	Modelectric Products Corp Asbury Park NJ Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Laboratory Equip Co 1811 1 Ave New York 28 NY Moore Corp John B P O Box 3 Dept EI Peerless Bldg Nutley 10 NJ Muirhead Instruments Inc 677 5 Ave New York 22 NY	7 8 6-12	429 E Collom St Philadelphia 41 Pa       1         Research Electronics Lab       19         Roslyn Pa       19         Richardson Labs Kenneth       254 Vincent Ave Lynbrook NY       4         Robotron Corp       21300 W 8 Mile Rd Detroit 19 Mich       4-13         Rockwell Co W S       220 Eliot St Fairfield Conn       6-17         Milton Roy Co       1300 E Mermaid Lane Philadelphia 18 Pa 2	1
24 Hanley Industrial Ct Brentwood St Louis 17 Mo Industrial Nucleonics Corp 1205 Chesapeake Ave Columbus 12 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY Industrial TV Inc 369 Lexington Ave Clifton NJ Instrumentation Associates 17 W 60 St New York 23 NY 2	12 19 11	Modelectric Products Corp Asbury Park NJ Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Laboratory Equip Co 1811 1 Ave New York 28 NY Moore Corp John B P O Box 3 Dept EI Peerless Bldg Nutley 10 NJ Muirhead Instruments Inc 677 5 Ave New York 22 NY Mytron Mfg Co	7 8 6-12 23 16	429 E Collom St Philadelphia 41 Pa       1         Research Electronics Lab       19         Roslyn Pa       19         Richardson Labs Kenneth       254 Vincent Ave Lynbrook NY       4         Robotron Corp       21300 W 8 Mile Rd Detroit 19 Mich       4-13         Rockwell Co W S       220 Eliot St Fairfield Conn       6-17         Milton Roy Co       1300 E Mermaid Lane Philadelphia 18 Pa 2         Safeway Heat Elements Inc       18 Pa 2	1
24 Hanley Industrial Ct Brentwood St Louis 17 Mo Industrial Nucleonics Corp 1205 Chesapeake Ave Columbus 12 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY Industrial TV Inc 369 Lexington Ave Clifton NJ Instrumentation Associates 17 W 60 St New York 23 NY 2: Intelex Systems Inc	12 19 11 22	Modelectric Products Corp Asbury Park NJ Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Laboratory Equip Co 1811 1 Ave New York 28 NY Moore Corp John B P O Box 3 Dept EI Peerless Bldg Nutley 10 NJ Muirhead Instruments Inc 677 5 Ave New York 22 NY Mytron Mfg Co 4522 Brazil St Los Angeles 39 Calif Nems-Clarke Inc	7 8 6-12 23	429 E Collom St Philadelphia 41 Pa       1         Research Electronics Lab       19         Roslyn Pa       19         Richardson Labs Kenneth       254 Vincent Ave Lynbrook NY       4         Robotron Corp       21300 W 8 Mile Rd Detroit 19 Mich       4-13         Rockwell Co W S       220 Eliot St Fairfield Conn       6-17         Milton Roy Co       1300 E Mermaid Lane Philadelphia 18 Pa 2         Safeway Heat Elements Inc       680 Newfield St Middletown Conn       12	1
24 Hanley Industrial Ct Brentwood St Louis 17 Mo Industrial Nucleonics Corp 1205 Chesapeake Ave Columbus 12 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY Industrial TV Inc 369 Lexington Ave Clifton NJ Instrumentation Associates 17 W 60 St New York 23 NY 12 Intelex Systems Inc 22 Thames St New York 6 NY	12 19 11 22 -16	Modelectric Products Corp Asbury Park NJ Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Laboratory Equip Co 1811 1 Ave New York 28 NY Moore Corp John B P O Box 3 Dept EI Peerless Bldg Nutley 10 NJ Muirhead Instruments Inc 677 5 Ave New York 22 NY Mytron Mfg Co 4522 Brazil St Los Angeles 39 Calif Nems-Clarke Inc 919 Jesup-Blair Dr Silver Spring Md	7 8 6-12 23 16	429 E Collom St Philadelphia 41 Pa       1         Research Electronics Lab       19         Roslyn Pa       19         Richardson Labs Kenneth       254 Vincent Ave Lynbrook NY       4         Robotron Corp       21300 W 8 Mile Rd Detroit 19 Mich       4-13         Rockwell Co W S       220 Eliot St Fairfield Conn       6-17         Milton Roy Co       1300 E Mermaid Lane Philadelphia 18 Pa 2       Safeway Heat Elements Inc         680 Newfield St Middletown Conn       12         Sampson Chemical & Pigment Corp       12	1
24 Hanley Industrial Ct Brentwood St Louis 17 Mo Industrial Nucleonics Corp 1205 Chesapeake Ave Columbus 12 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY Industrial TV Inc 369 Lexington Ave Clifton NJ Instrumentation Associates 17 W 60 St New York 23 NY 1ntelex Systems Inc 22 Thames St New York 6 NY International Research & Development Cory	12 19 11 22 -16	Modelectric Products Corp Asbury Park NJ Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Laboratory Equip Co 1811 1 Ave New York 28 NY Moore Corp John B P O Box 3 Dept EI Peerless Bldg Nutley 10 NJ Muirhead Instruments Inc 677 5 Ave New York 22 NY Mytron Mfg Co 4522 Brazil St Los Angeles 39 Calif Nems-Clarke Inc 919 Jesup-Blair Dr Silver Spring Md Nevada Air Products Co	7 8 6-12 23 16 4	429 E Collom St Philadelphia 41 Pa         1           Research Electronics Lab         19           Roslyn Pa         19           Richardson Labs Kenneth         254 Vincent Ave Lynbrook NY         4           Robotron Corp         21300 W 8 Mile Rd Detroit 19 Mich         4-13           Rockwell Co W S         220 Eliot St Fairfield Conn         6-17           Milton Roy Co         1300 E Mermaid Lane Philadelphia 18 Pa 2         2           Safeway Heat Elements Inc         680 Newfield St Middletown Conn         12           Sampson Chemical & Pigment Corp         2330 W Lake St Chicago 12 Ill         18           Sanborn Co         18	
24 Hanley Industrial Ct Brentwood St Louis 17 Mo Industrial Nucleonics Corp 1205 Chesapeake Ave Columbus 12 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY Industrial TV Inc 369 Lexington Ave Clifton NJ Instrumentation Associates 17 W 60 St New York 23 NY 1rtelex Systems Inc 22 Thames St New York 6 NY International Research & Development Corp 797 Thomas Lane Columbus 16 Ohio Irwin Labs	12 19 11 22 -16 7	Modelectric Products Corp Asbury Park NJ Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Laboratory Equip Co 1811 1 Ave New York 28 NY Moore Corp John B P O Box 3 Dept EI Peerless Bldg Nutley 10 NJ Muirhead Instruments Inc 677 5 Ave New York 22 NY Mytron Mfg Co 4522 Brazil St Los Angeles 39 Calif Nems-Clarke Inc 919 Jesup-Blair Dr Silver Spring Md Nevada Air Products Co P O Box 2472 Reno Nev	7 8 6-12 23 16 4	429 E Collom St Philadelphia 41 Pa         1           Research Electronics Lab         19           Roslyn Pa         19           Richardson Labs Kenneth         254 Vincent Ave Lynbrook NY         4           Robotron Corp         21300 W 8 Mile Rd Detroit 19 Mich         4-13           Rockwell Co W S         220 Eliot St Fairfield Conn         6-17           Milton Roy Co         1300 E Mermaid Lane Philadelphia 18 Pa         2           Safeway Heat Elements Inc         680 Newfield St Middletown Conn         12           Sampson Chemical & Pigment Corp         2830 W Lake St Chicago 12 Ill         18           Sanborn Co         175 Wyman St Waltham 54 Mass         21	
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24 Hanley Industrial Ct Brentwood St Louis 17 Mo Industrial Nucleonics Corp 1205 Chesapeake Ave Columbus 12 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY Industrial TV Inc 369 Lexington Ave Clifton NJ Instrumentation Associates 17 W 60 St New York 23 NY 17 W 60 St New York 23 NY 17 W 60 St New York 6 NY Intelex Systems Inc 17 W 60 St New York 6 NY 18 International Research & Development Corp 18 Thomas Lane Columbus 16 Ohio 18 Irwin Labs 18 S Gerhart Ave Los Angeles 22 Calif Isotope Products	12 19 11 22 -16 7 3 3 7 9	Modelectric Products Corp Asbury Park NJ Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Laboratory Equip Co 1811 1 Ave New York 28 NY Moore Corp John B P O Box 3 Dept EI Peerless Bldg Nutley 10 NJ Muirhead Instruments Inc 677 5 Ave New York 22 NY Mytron Mfg Co 4522 Brazil St Los Angeles 39 Calif Nems-Clarke Inc 919 Jesup-Blair Dr Silver Spring Md Nevada Air Products Co P O Box 2472 Reno Nev New England Oven & Furnace Co 385 Boston Post Rd Orange Conn New Rochelle Toll Corp 320 Main St New Rochelle NY Norco Mfg Co	7 8 6-12 23 16 4 7 14-27 14-17	429 E Collom St Philadelphia 41 Pa         1           Research Electronics Lab         19           Roslyn Pa         19           Richardson Labs Kenneth         254 Vincent Ave Lynbrook NY         4           Robotron Corp         21300 W 8 Mile Rd Detroit 19 Mich         4-13           Rockwell Co W S         220 Eliot St Fairfield Conn         6-17           Milton Roy Co         1300 E Mermaid Lane Philadelphia 18 Pa 2         2           Safeway Heat Elements Inc         680 Newfield St Middletown Conn         12           Sampson Chemical & Pigment Corp         2830 W Lake St Chicago 12 Ill         18           Sanborn Co         175 Wyman St Waltham 54 Mass         21           Schaevitz Eng'g         P O Box 505 Camden 1 NJ         21           Scientific Electric         105 Monroe St Garfield NJ         18           Scientific Glass Apparatus Co         18	
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	Valora Florinio Co	American Window Glass Co
Sel-Rex Corp 155 Manchester Pl Newark 4 NJ 23	Vulcan Electric Co 88 Holten St Danvers Mass	Farmers Bank Bldg Pittsburgh 22 Pa 18
Seneca Falls Machine Co	Watlow Electric Mfg Co	AMP Inc Harrisburg Pa 10
314 Fall St Seneca Falls NY 1-19	1376 Ferguson Ave St Louis 14 Mo 12 West Coast Research Corp	AMP Inc Chemical Dielectrics Div
Sensory Inc Pleasantville Rd New Vernon NJ 21	2371 1/2 Westwood Blvd Los Angeles 65 Calif 5	155 Park St Elizabethtown Pa 10
Servo Corp of America	Western Coil & Electrical Co 215 State St Racine Wis 25	Anchor Plastics Co 36-36 St Long Island City 6 NY 27
2020 Jericho Turnpike	Westinghouse Electric Corp	Apex Coated Fabrics Co
New Hyde Park NY Servonic Instruments Inc	P O Box 868 Pittsburgh 30 Pa 1-5-12	12 E 22 St New York 10 NY 13-27 Arco Co
1145 S Fair Oaks Ave Pasadena 2 Calif 21	White Dental Mfg Co S S Industrial Div 10 E 40 St New York 16 NY	7301 Bessemer Ave Cleveland 27 Ohio 6-11
Servo-Tek Products Co	Wiancko Eng'g Co	Aries Labs Inc
1086 Goffle Rd Hawthorne NJ Shannon Luminous Materials Co	255 Halstead St Pasadena Calif 21 Wiegand Co Edwin L	45-33 Davis St Long Island City 1 NY 5-6-27-30
7356 Santa Monica Blvd	7500 Thomas Blvd Pittsburgh 8 Pa 12	Armstrong Cork Co
Hollywood 46 Calif 25	Worner Electronic Devices	W Liberty St Lancaster Pa 9-28 Asheville-Schoonmaker Mica Co
Sherman Industrial Electronics Co 505 Washington Ave Belleville NJ 12-13	Wright Equipment Co	900 Jefferson Ave Newport News Va 21
Small Motors Inc	128 N Main St Milltown NJ 26	Associated Commodity Corp
2076 Elston Ave Chicago 14 III 1 Solartron Electronic Group Ltd	Young Brothers Co 1831 Columbus Rd Cleveland 13 Ohio 4-6	Woolworth Bldg New York 7 NY 21 Atlas Mineral Products Co
Queens Rd	Zoomar Inc	Mertztown Pa 27
Thames Ditton Surrey England 1-3	55 Sea Cliff Ave Glen Cove NY 22	Auburn Mfg Co Stack St Middletown Conn 1-9-25-27-28-31-35
Southern Instruments Computer Div Frimley Rd Camberley Surrey England 2	32-INSULATION MATERI-	Bache & Co Semon
Southwestern Industrial Electronics Co		636 Greenwich St New York 14 NY 16-27 Baer Co NS
2831 Post Oak Rd Houston 19 Texas 11	ALS & COMPOUNDS	1-11 Montgomery St Hillside 5 NJ 15-28
Spellman TV Co 3029 Webster Ave New York 67 NY 18-23-27	Asbestos 1	Bakelite Co Div Union Carbide &
Sperry Gyroscope Co Div Sperry Rand Corp	Asphalt 2	Carbon Corp 30 E 42 St New York 17 NY 11-26-27
Great Neck NY	Ceramic	New York 17 NY 11-26-27 Baker Bros
Sperry Products Inc Shelter Rock Rd Danbury Conn 20	Coatings, cambric, varnished 4	Post & Harleau Sts Toledo 10 Ohio 27
Standard Electric Time Co	Compounds, encapsulation 5	Barium & Chemicals Inc Willoughby Ohio 21
89 Logan St Springfield 2 Mass 5	Compounds, impregnating 6	Barrett Div Allied Chemical & Dye Corp
Statham Labs Inc 12401 W Olympic Blvd	Compounds, mica 7	40 Rector St New York 6 NY 2-5-27-30
Los Angeles 64 Calif 21	Compounds, phenolic molding 8	Behr-Manning Co 3057 Howe St Troy NY 35
Stavid Eng'g Inc U S Route 22 Plainfield NJ	Cork 9	3057 Howe St Troy NY 35 Belding Corticelli Industries Inc
Steiner-Ives Co	Dielectrics	Putnam Conn 11-27-30
Springfield Rd Union NJ 6-12-17	Enamel	Belmont Smelting & Refining Works 330 Belmont Ave Brooklyn 7 NY 32
Stewart Warner Electronics Div 1300 N Kostner Ave Chicago 51 Ill 14	Fabric	Besteraft Products Co
Stroblite Co	Fabric, varnished	626 Broadway New York 12 NY 15-25
75 W 45 St New York 36 NY 25	Fibre	Biggs Co Carl H 2255 Barry Ave Los Angeles 64 Calif 27-28
Taller & Cooper 75 Front St Brooklyn 1 NY 22	Fibre, vulcanized	Bios Labs Inc
Taggian Inc Sarkes	Glass	17 W 60 St 1-3-9-11-19
E Hillside Drive Bloomington Ind 22	Glass fibre	New York 23 NY 21-22-26-32 Birnbach Radio Co
Tatnall Measuring Systems Co Kimberton Rd Phoenixville Pa 21	Glass, mica-woven or laminated 18	145 Hudson St New York 13 NY 3-33
Technic Inc	Grain, alundum	Biwax Corp 3445 Howard St Skokie III 5-6
39 Snow St Providence 3 RI 8	Mica21	Blaine Electronetics Inc
Technical Associates 140 W Providencia Ave Burbank Calif 15	Mica, glass bonded 22	14757 Keswick St Van Nuys Calif 28
Technicraft Co	Oxide, aluminum	Bolta Products Div General Tire & Rubber Co 70 Garden St
1156 Commonwealth Ave	Paper 25	Lawrence Mass 27-28
Goston 34 mas	Phenolics	Boots Aircraft Nut Corp
36-11 33 St Long Island City 6 NY 12	Plastics 27	Newtown Turnpike Norwalk Conn 8-26-27-33 Borden Co Chemical Div Resinite Dept
Telechrome Mfg Corp 28 Ranick Dr Amityville LI NY 22	Plastics, laminated 28	P O Box 1589 Santa Barbara Calif 27
Telephonics Corp	Porcelain	Borden Co Chemical Div
Park Ave Huntington LI NY	Resin, synthetic 30	350 Madison Ave New York 17 NY 30 Borthig Co George C
Temperature Eng'g Corp U S Hw 130 Riverton NJ 12-17	Rubber	P O Box 115 E Rutherford NJ 11
Thurse Fraig Inc	Silicon 32	Boston Woven Hose & Rubber Co P O Box 1071 Boston 3 Mass 35
1090 Springheld Rd Othon 110	Steatite	P O Box 1071 Boston 3 Mass 35 Bradley Associates
Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas 14	Tape, coil	- 1650 N Damen Ave Chicago 47 Ill 27
Thermal Refractories Corp	Tape, electrical 35	Bram Chemical Co Metals & Minerals Div 820 65 Ave Philadelphia 26 Pa 7-21-33
Tonn Industries Inc.	Accurate Electronics Corp	820 65 Ave Philadelphia 26 Pa 7-21-33 Brand Dielectrics Inc
5255 W 102 St Los Angeles 45 Calif 14	169 S Ahbe Rd W Elyria Ohio 26-28	57 North St
Tracerlab Inc 1601 Trapelo Rd Waltham 54 Mass 15-19	Accurate Mfg Co 44 Hepworth Pl Garfield NJ 35	Willimantic Conn 10-13-16-18-21-22-25-35
T Dwoducte Inc	Ace Plastic Co	Brilhart Plastics Corp Old Country Rd Mineola NY 27
12210 Nebraska Ave Los Angeles 25 Calif	91-30 Van Wyck Expwy Jamaica 35 NY 27 Acheson Colloids Co	British Electronic Sales
Transformer Technicians Inc 2608 N Cicero Ave Chicago 39 III 11	1635 Washington Ave Port Huron Mich 6-7	Box 132 Oakland Gardens 64 NY Brooklyn Paint & Varnish Co
Transitron Inc	Acme Wire Co 1255 Dixwell Ave	50 Jay St Brooklyn 1 NY
186 Granite St Manchester NH 21 Transvision Inc	New Haven 14 Conn 4-5-13-25	Brown-Bridge Mills E. Water St. Troy Ohio 25
460 North Ave New Rochelle NY 22	Aero Research Instrument Co	Brush Beryllium Co
Trion Inc	315 N Aberdeen St Chicago 7 III 3 Aerovox Corp Crowley Div	4301 Perkins Ave Cleveland 3 Ohio 21
1000 Island Ave McKees Rocks Pa Tuttle & Kift Inc	1 Central Ave W Orange N.J	Buchanan Electrical Products Corp
1823 N Monitor Ave Chicago 39 III	Airflyte Electronics Co	225 Route 22 Hillside NJ Cambridge Thermionic Corp
TV Specialty Co 350 W 31 St New York 1 NY 22	Allied Posinous Products	445 Concord Ave Cambridge 38 Mass 3
Litradyne Eng'g Labs	Whitney Rd & Clark St Conneaut Ohio 27	Campro Products Inc
P O Box 3308 Alhuquerque New Mex 21	Aloe Scientific 5655 Kingsbury Blvd	3131 Alliance Rd N E Canton 1 Ohio 27-28
Ultra-Violet Products Inc 5114 Walnut Grove Ave San Gabriel Calif 25	St Louis 12 Mo 1-9-17-24	Carbide & Carbon Chemicals Co Div Union Carbide & Carbon
United Electrodynamics	Alpha Metals Inc 56 Water St Jersey City 4 NJ 34	30 E 42 St New York 17 NY 6
1200 S Marengo Ave Pasadena Calif Universal Atomics Corp	Aluminum Co of America	Cavitron Electron Oscillator Co Div
50 Bond St Westbury LI NY 11-15	Alcoa Bldg Pittsburgh 19 Pa 24	Short Wave Plastic Forming 355 N Newport Blvd Newport Beach Calif 10
Universal Industrial Equipment Corp 1625 Paterson Plank Rd Secaucus NJ 8	American Air Filter Co 215 Central Ave Louisville 8 Ky 17	Centralab Div Globe Union Inc
Uniwave Inc	American Insulator Corp	900 E Keefe Ave Milwaukee 1 Wis
2 Marine St Farmingdale NY	New Freedom Pa 26-27 American Lava Corp	Central Coil Co 1720 N Luett St Indianapolis 22 Ind 5-6
US Dynamics Corp 1250 Columbus Ave Boston 20 Mass 6-8	Subs Minn Mining & Mfg	Chase & Sons
U S Rubber Co	Cherokee Blvd & Mfrs Rd	26 Spruce St N Quincy Mass 35
1230 6 Ave New York 20 NY 12	American Mica Insulation Co	Chemical Process Co 1901 Spring St Redwood City Calif 27
Vapor Heating Corp 80 E Jackson Blvd Chicago 4 Ill 12	235 Parker Ave Manasquan NJ 21-22-28	Chamical Products Corp
Victoreen Instrument Co	American Mica Radio Corp 235 Parker Ave Manasquan NJ 7-21-22	King Philip Rd E Providence 14 RI 11-27
5806 Hough Ave Cleveland 3 Ohio 15 Volk Radiochemical Co	American Products Mfg Co	Chemo-Textiles Inc P O Box 169 W Warwick RI 27-28-35
5412 N Clark St Chicago 40 Ill 15		I. O DOZ TOS M MSTATCK IVI 21 20-00

Chicago-Allis Mfg Corp
Chicago-Allis Mfg Corp 113 N Green St Chicago 7 Ill 31 Chicago Gasket Co
1271 W North Ave Chicago 22 Ill 27 Chicago Telephone Co of Calif
105 Pasadena Ave S Pasadena Calif 27 Ciba Co Plastics Div
Kimberton Pa 27-30
City Chemical Corp 132 W 22 St New York 11 NY 21-24-32
Clowes Ceramic Corp
3711 Calhoun Ave Chattanooga 7 Tenn 3-33 Cleveland Container Co
6201 Barberton Ave Cleveland 2 Ohio 25-28 Colonial Insulator Co
945 Grant St Akron 11 Ohio 29
Columbia Tape Mills Bank St E Greenville Pa 16-17-18-34-35
Communication Products Co Marlboro NJ 6
Conn Hard Rubber Co
P O Box 1911 New Haven 9 Conn 12-31-35 Continental-Diamond Fibre Corp
Newark Del 15-21-22-26-28-35 Controlled Atmosphere Enclosures Corp
230-11 141 Ave Springfield Gardens 13 LI NY 27
Corning Glass Works
Corning NY 10 Crane Packing Co
Crane Packing Co 6400 Oakton St Morton Grove Ill 10-27 Crystalx-Westlake Corp
Lenni Rd Lenni Mills Pa 18-26-27-28
Cudner & O'Connor Co 4035 W Kinzie St Chicago 24 Ill 5
Dale Boisen Co
2928 Nebraska Ave Santa Monica Calif 28 Dalmo Victor Co Div Textron Inc 1515 Industrial Way Belmont Calif 28
1515 Industrial Way Belmont Calif 28 Dearborn Glass Co
6600 S Harlem Ave Bedford Park Argo Ill 18 Decatur Electronic Industries Corp
203 Orinoco Dr Brightwaters LI NY 26-31
Delta Chemical Works 23 W 60 St
23 W 60 St New York 23 NY 1-3-9-11-19-21-22-26-32 Delta Co
333 W 24 Pl Chicago 16 Ill 4
300 Howard St Framingham Mass 25-34-35
Diamonite Products Mfg Co 217 4 St NE Canton 2 Ohio 3-24
Dielect Inc Cedar & Gross Sts Fords NJ 10-27
Dilectrix Corp
Allen Blvd Farmingdale LI NY 36
Dimco-Gray Co
Dimco-Gray Co
Dimco-Gray Co 207 E 6 St Dayton 2 Ohio 27 Dow Chemical Co Midland Mich 27-30
Dimco-Gray         Co         27           207         E 6         St         Dayton         2         Ohio         27           Dow Chemical         Co         Midland         Midland         27-30         Dow         Corning         Corp         Midland         Mich         5-6-10-11-27-30-31-34-35         Dow         Corning         Corp
Dimco-Gray         Co         27           207         E 6 St Dayton 2 Ohio         27           Dow Chemical Co         Midland Mich         27-30           Dow Corning Corp         Midland Mich         5-6-10-11-27-30-31-34-35           Du-Co Ceramics Co         Box 278 Saxonburg Pa         3-10-29-33
Dimco-Gray         Co         27           207         E 6 St Dayton 2 Ohio         27           Dow Chemical Co         3         3           Midland Mich         27-30         3           Dow Corning Corp         4         3           Midland Mich         5-6-10-11-27-30-31-34-35         5           Du-Co Ceramics Co         5-6-10-11-27-30-31-34-35         3           Duncton Co M W         3         3-10-29-33
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Dimco-Gray Co         27           207 E 6 St Dayton 2 Ohio         27           Dow Chemical Co         37-30           Midland Mich         27-30           Dow Corning Corp         37-30           Midland Mich         5-6-10-11-27-30-31-34-35           Du-Co Ceramics Co         Box 278 Saxonburg Pa           3-10-29-33         3-10-29-33           Duncton Co M W         7 Goff St Providence RI           7 Goff St Providence RI         35           Du Pont de Nemours & Co E I         5-6-11-12-14-27           Duralith Corp         5-6-11-12-14-27
Dimco-Gray Co         27           207 E 6 St Dayton 2 Ohio         27           Dow Chemical Co         30           Midland Mich         27-30           Dow Corning Corp         36           Midland Mich         5-6-10-11-27-30-31-34-35           Du-Co Ceramics Co         Box 278 Saxonburg Pa           Box 278 Saxonburg Pa         3-10-29-33           Duncton Co M W         7 Goff St Providence RI           Du Pont de Nemours & Co E I         35           Wilmington 98 Dela         5-6-11-12-14-27           Duralith Corp         1025 Race St Philadelphia 7 Pa         28
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Dimco-Gray Co 207 E 6 St Dayton 2 Ohio 27  Dow Chemical Co Midland Mich Dow Corning Corp Midland Mich Du-Co Ceramics Co Box 278 Saxonburg Pa 3-10-29-33  Duncton Co M 7 Goff St Providence RI Du Pont de Nemours & Co E I Wilmington 98 Dela Duralith Corp 1025 Race St Philadelphia 7 Pa Durez Plastics Div Hooker Electrochemical Co 1926 Walck Rd Niagara Falls NY 8-26-27-30
Dimco-Gray Co 207 E 6 St Dayton 2 Ohio 27  Dow Chemical Co Midland Mich 27-30  Dow Corning Corp Midland Mich 5-6-10-11-27-30-31-34-35  Du-Co Ceramics Co Box 278 Saxonburg Pa 3-10-29-33  Duncton Co M W 7 Goff St Providence RI 35  Du Pont de Nemours & Co E I Wilmington 98 Dela 5-6-11-12-14-27  Duralith Corp 1025 Race St Philadelphia 7 Pa 28  Durez Plastics Div Hooker Electrochemical Co 1926 Walck Rd Niagara Falls NY Eagle-Picher Co American Bldg Parkway & Walnut Cincinnati 2 Ohio 32
Dimco-Gray Co 207 E 6 St Dayton 2 Ohio 27  Dow Chemical Co Midland Mich Dow Corning Corp Midland Mich Du-Co Ceramics Co Box 278 Saxonburg Pa 3-10-29-33  Duncton Co M 7 Goff St Providence RI Du Pont de Nemours & Co E I Wilmington 98 Dela 5-6-11-12-14-27  Duralith Corp 1025 Race St Philadelphia 7 Pa 28  Durez Plastics Div Hooker Electrochemical Co 1926 Walck Rd Niagara Falls NY Eagle-Picher Co American Bldg Parkway & Walnut Cincinnati 2 Ohio Eastern Precision Resistor Corp 675 Barbey St Brooklyn 7 NY 5-6
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Dimco-Gray Co         207 E 6 St Dayton 2 Ohio         27           Dow Chemical Co         Midland Mich         27-30           Dow Corning Corp         Midland Mich         5-6-10-11-27-30-31-34-35           Du-Co Ceramics Co         Box 278 Saxonburg Pa         3-10-29-33           Duncton Co M W         7 Goff St Providence RI         35           Du Pont de Nemours & Co E I         Wilmington 98 Dela         5-6-11-12-14-27           Duralith Corp         1025 Race St Philadelphia 7 Pa         28           Durez Plastics Div Hooker Electrochemical Co 1926 Walck Rd         Niagara Falls NY         8-26-27-30           Eagle-Picher Co         American Bldg Parkway & Walnut Cincinnati 2 Ohio         32           Eastern Precision Resistor Corp         675 Barbey St Brooklyn 7 NY         5-6           Eastern Precision Research & Development Co         27           Electrical Products Research & Development Co         20           2106 Cherry St Toledo 4 Ohio         27           Electrical Refractories Co         E Clark St E Palestine Ohio         3-29           Electrical Specialty Co         1-4-7-8-11-14-15-15           158 11 St         16-17-18-21-22-26-27-28-30-15           San Francisco 3 Calif         32-33-34-35           Electro-Chemical Eng'g & Mfg Co         750 Broad St Emmaus Pa
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Dimco-Gray Co 207 E 6 St Dayton 2 Ohio 27 Dow Chemical Co Midland Mich Dow Corning Corp Midland Mich Dow Corning Corp Midland Mich Du-Co Ceramics Co Box 278 Saxonburg Pa 3-10-29-33 Duncton Co M W 7 Goff St Providence RI Du Pont de Nemours & Co E I Wilmington 98 Dela 5-6-11-12-14-27 Durslith Corp 1025 Race St Philadelphia 7 Pa 28 Durez Plastics Div Hooker Electrochemical Co 1926 Walck Rd Niagara Falls NY Eagle-Picher Co American Bldg Parkway & Walnut Cincinnati 2 Ohio Eastern Precision Resistor Corp 675 Barbey St Brooklyn 7 NY 5-6 Eastman Kodak Co 343 State St Rochester 4 NY Electrical Producta Research & Development Co 1206 Cherry St Toledo 4 Ohio Electrical Refractories Co E Clark St E Palestine Ohio 520 Electrical Specialty Co 1-4-7-8-11-14-15-158 11 St 16-17-18-21-22-26-27-28-30-158 11 St 10-10 Clifton Blvd Clifton NJ Electro-Chemical Eng'g & Mfg Co 750 Broad St Emmaus Pai 20-5-27 Electronic Mechanics Inc 101 Clifton Blvd Clifton NJ Electro Technical Products Div Sun Chemical Corp 113 E Centre St Nutley 10 NJ 4-13-16-25-34-35 Ellanar Chemical Co 2308 Oakton Evanston III 30 Emeloid Co 1239 Central Ave Hillside 5 NJ 27-28 Emerson & Cuming Inc 869 Washington St Canton 1 Mass 3-5-6-10-18-27-28-30 Emerson Plastics Corp Rta 38 at Airport Circle
Dimco-Gray Co 207 E 6 St Dayton 2 Ohio 27 Dow Chemical Co Midland Mich Dow Corning Corp Midland Mich Dow Corning Corp Midland Mich Du-Co Ceramics Co Box 278 Saxonburg Pa 3-10-29-33 Duncton Co M W 7 Goff St Providence RI Du Pont de Nemours & Co E I Wilmington 98 Dela 5-6-11-12-14-27 Durslith Corp 1025 Race St Philadelphia 7 Pa 28 Durez Plastics Div Hooker Electrochemical Co 1926 Walck Rd Niagara Falls NY Eagle-Picher Co American Bldg Parkway & Walnut Cincinnati 2 Ohio Eastern Precision Resistor Corp 675 Barbey St Brooklyn 7 NY 5-6 Eastman Kodak Co 343 State St Rochester 4 NY Electrical Producta Research & Development Co 1206 Cherry St Toledo 4 Ohio Electrical Refractories Co E Clark St E Palestine Ohio 520 Electrical Specialty Co 1-4-7-8-11-14-15-158 11 St 16-17-18-21-22-26-27-28-30-158 11 St 10-10 Clifton Blvd Clifton NJ Electro-Chemical Eng'g & Mfg Co 750 Broad St Emmaus Pai 20-5-27 Electronic Mechanics Inc 101 Clifton Blvd Clifton NJ Electro Technical Products Div Sun Chemical Corp 113 E Centre St Nutley 10 NJ 4-13-16-25-34-35 Ellanar Chemical Co 2308 Oakton Evanston III 30 Emeloid Co 1239 Central Ave Hillside 5 NJ 27-28 Emerson & Cuming Inc 869 Washington St Canton 1 Mass 3-5-6-10-18-27-28-30 Emerson Plastics Corp Rta 38 at Airport Circle
Dimco-Gray Co 207 E 6 St Dayton 2 Ohio 27 Dow Chemical Co Midland Mich Dow Corning Corp Midland Mich Dow Corning Corp Midland Mich Du-Co Ceramics Co Box 278 Saxonburg Pa 3-10-29-33 Duncton Co M W 7 Goff St Providence RI Du Pont de Nemours & Co E I Wilmington 98 Dela Duralith Corp 1025 Race St Philadelphia 7 Pa 28 Durez Plastics Div Hooker Electrochemical Co 1926 Walck Rd Niagara Falls NY Eagle-Picher Co American Bldg Parkway & Walnut Cincinnati 2 Ohio 23 Eastern Precision Resistor Corp 675 Barbey St Brooklyn 7 NY 5-6 Eastman Kodak Co 343 State St Rochester 4 NY Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio 27 Electrical Refractories Co E Clark St E Palestine Ohio 28 Ectrical Specialty Co 1-4-7-8-11-14-15- 158 11 St 16-17-18-21-22-26-27-28-30- San Francisco 3 Calif Electro-Chemical Eng'g & Mfg Co 750 Broad St Emmaus Pa 2-5-27 Electronic Mechanics Inc 101 Clifton Blvd Clifton NJ 22-27 Electronic Mechanics Inc 101 Clifton Blvd Clifton NJ 22-27 Electro Technical Products Div Sun Chemical Corp 113 E Centre St Nutley 10 NJ Ellanar Chemical Co 2308 Oakton Evanston III 269 Emeloid Co 1239 Central Ave Hillside 5 NJ 27-28 Emerson Plastics Corp Seabury Ave & Butler Pl Bronx 61 NY Enflo Corp Rte 38 at Airport Circle

Farley & Loetscher Mfg Co Plastics Div 7 & White Sts Dubuque Iowa 28	
Farnam Mfg Co 2000 Sweeten Creek Rd Asheville NC 21-28	
Fidelity Chemical Products Corp 470 Frelinghuysen Ave Newark 12 NJ 5	
Flevrock Co	
3609 Filbert St Philadelphia 1 Pa 27 Flight Research Inc P O Box 1-F Richmond 1 Va 32 Fluorearbon Products Inc	
Fluorcarbon Products Inc Div U S Gasket Co 602 N 10 St Camden 1 NJ 23-27-28-35	
Formica Corp	
4614 Spring Grove Ave	
Cincinnati 32 Ohio 28 Franklin Fibre-Lamitex Corp Wilmington Dela 14-15-17-25-26-27-28	
r reed Transformer Co 1718-36 Weirfield St Brooklyn 27 NV 5-6	
r rencation Poreclain Co Muirhead Ave Trenton 9 N.I. 2 22	
Fuller Co H B  181 W Kellogg Blvd St Paul 2 Minn 27 Furane Plastics Inc	
4516 Brazil St Los Angeles 32 Calif 5-6-27-28	
Garlock Packing Co 402 Main St Palmyra NY 1-27-28	
Garlock Packing Co 402 Main St Palmyra NY 1-27-28 Gavitt Wire & Cable Co Central St Brookfield Mass General Cement Mfg Co Div Textron Inc 400 S Wyman St Rockford III General Ceramics Corp Crow Mill Rd Keasbey NJ General Electric Co 2	
400 S Wyman St Rockford III 4-11-35	
Crow Mill Rd Keasbey NJ  General Electric Co	
Chemical Materials Dept	
General Electric Co Coshocton Ohio	
General Electric Co Apparatus Sales Div	
Waterford NV	
South Kensington Rd Kankakee III 5	
431 Glenridge Rd Cleveland 21 Ohio 28	
Goodrich Chemical Co B F  3135 Euclid Ave Cleveland 15 Object 27 20	
Goodrich Industrial Products Co B F Marietta Ohio 27-28	
310 Wilkes Pl Sharon Pa	
Guastavino Co R 660 Main St Woburn Mass 29-33	
Guild Electronics Inc 388 Broadway New York 13 NY Hardman Co H V	
Harshaw Chemical Co 1945 E 97 St Cleveland 6 Ohio 21 Hartford City Paper Co	
Haveg Industries Inc 900 Greenbank Rd Wilmington 8 Del Hermes Plastics Inc 13 University Pl. Naw York 13 NV	
Hi-Test Chemical Corp 722-64 St Brooklyn 20 NY 5-6	
Hommel Co O 209 4 Ave Pittsburgh 22 Pa	
Houghton Laboratories Inc 322 Houghton Ave Olean NY 5-7 Howard Crystal Holders Inc	
Howard Crystal Holders Inc 2600 Grand Ave Kansas City 8 Mo 27 Huse Liberty Mica Co	
Peabody Industrial Center	
Peabody Mass 21-22-35 Hydro Molding Co	
Hydro Molding Co 100 Sharron Ave Plattsburgh NY 27 Illumitronic Eng'g Co 680 F Toylor Ave Supervision Colling	
Indentification Service Corn	
144 W 46 St New York 36 NY 28 Induction Heating Corp 181 Wythe Ave Brooklyn 11 NY 27 Industrial Agreements Industrial	
181 Wythe Ave Brooklyn 11 NY 27 Industrial Accessories Inc	
Industrial Accessories Inc Line Rd Matawan NJ 31-35 Insulating Fabricators Inc	
150 Union Ave E Rutherford NJ 28 Insulating Fabricators of N E Inc	
69 Grove St Watertown 72 Mass 15-17-18-26-27-28 Insulation Mfrs Corp	
565 W Washington Blvd 1-5-7-10-11-14-15-16	
Chicago 39 III 18-21-22-28-35	
1534 Swinney Ave Ft Wayne Ind 4-11-13 Integrated Mica Corp 202 Franklin Pl Woodmere LI NY 21 Irvington Div Minn Mining & Mfg Co 11 Argyle Terrace Irvington 11 NY 27	
202 Franklin Pl Woodmere LI NY 21 Irvington Div Minn Mining & Mfg Co	
isolantite mig Corp	
Warren Ave Stirling NJ 3-33 Jodee Plastics Co 213 Shepherd Ave Brooklyn 8 NY 23-27-28	
Johns-Manville Dutch Brand Div	
7800 Woodlawn Ave Chicago 19 Ill 31-34-35 Johns-Manville	
22 E 40 St	

Johnson Co E F	
Waseca Minn	33
Joy Mfg Co Electrical Products Div 1201 Macklind Ave St Louis 10 Mo Kaiser Aluminum & Chemical	31
Kaiser Aluminum & Chemical 919 N Michigan Ave Chicago III	24
919 N Michigan Ave Chicago III Keasbey & Mattison Co Ambler Pa	1
Kallan Duadouta Inc	
Kellogg Co M W	27-28
P O Box 469 Jersey City 3 NJ Kendall Co Polyken Sales Div	27-31
309 W Jackson Blvd Chicago 20 III Kirchberger & Co M	27-35
83 W Forest Ave Englewood NJ	3-33
Koppers Co Koppers Bldg Pittsburgh 19 Pa	27
Laminated Sheet Products Corp 449 Neponset St	
Norwood Mass 14-15-17-18-23-26- La Moree C D	27-28
2433 Birkdale St Los Angeles 31 Calif 3-	18-35
Lapp Insulator Co Radio Specialties Div 24 Summer St LeRoy NY 3-	29-33
Lee Chemical Corp Walter Seabury Ave & Butler Pl Bronx 61 NY	27
L O F Glass Fibers Co 1810 Madison Ave Toledo 1 Ohio	14-17
Long Inc Thomas J 215 Stonehinge Lane	
Carle Place LI NY Louthan Mfg Co	15-26
Harvey Ave E Liverpool Ohio	3-29
Luminous Resins Inc 166 W Washington St Chicago 2 Ill	27
Luzerne Rubber Co Muirhead Ave Trenton NJ	27
McMillan Industrial Corp	10-28
Brownville Ave Ipswich Mass Mackay Inc A D	
198 Broadway New York 38 NY 19- Maigne Co O J	
323 Pearl St New York 38 NY Mallory & Co Inc P R	27
42 S Gray St Indianapolis 6 Ind Manning Paper Co John A P O Drawer 328 Troy NY	27-28
P O Drawer 328 Troy NY	25
	27-30
Marhon Chemical Div Borg-Warner Corp 7165 Chicago Ave Gary Ind	р 27 <b>-3</b> 0
7165 Chicago Ave Gary Ind Mayfair Molded Products Corp 3700 N Rose St Franklin Park Ill	26-27
Mesa Plastics Co 11751 Mississippi Ave	
Los Angeles 25 Cali	27
Metaplast Corp Davisville Rd Hatboro Pa	27
Micarta Fabricators Inc 5324 N Ravenswood Ave	
Chicago 40 Ill 15- Mica Corp	26-28
4031 Elenda St Culver City Calif Micacraft Products Inc	28
701 McCarter Hwy Newark 5 NJ	21
Mica Fabricating Co Rochelle Park NJ 14-15-21-	
Mico Instrument Co 80 Trowbridge St Cambridge 38 Mas	ss 28
Micromold Products Corp 1 School St Yonkers NY	27
Mil Case Corp 35-18 37 St	
Long Island City NY 17-18-	27-28
35-18 37 St Long Island City NY 17-18- Millen Mfg Co James 150 Exchange St Malden 48 Mass 3- Minnesota Mining & Mfg Co 90 Fauquier Ave St Paul 6 Minn 5-6-30- Minnesota Rubber & Gasket Co 3630 Wooddole Ave St Louis Park	26-27
90 Fauquier Ave St Paul 6 Minn 5-6-30-	34-35
5050 Wooddale Ave St Library Lank	
Minneapolis 16 Minn Minor Rubber Co	31
Ackerman St Bloomfield NJ Mitronics Inc	31
1290 Central Ave Hillside NJ Molded Fiber Glass Co	3
4801 Benefit Ave Ashtabula Ohio 18-	27-28
Molded Products Div Admiral Corp Washington & Creamery Rd	
Molding Corp of America	26-27
58 Weybosset St Providence 3 RI Monsanto Chemical Co	27
1700 S 2 St St Louis 4 Mo 5-6-8-10-	27-30
Montaine Corp 2446 S Prairie Ave Chicago 16 Ill Mosinee Paper Mills Co	3
Mosinee Wis	25
Multiplastics 770 W Factory Rd Addison III	27
Mutual Electronic Industries Corp 85 Beechwood Ave New Rochelle NY	28
Mycalex Corp of America 125 Clifton Blvd Clifton NJ 3-7-10-	
National Ceramic Co	
500 Southard St Trenton 2 NJ National Eng'g Products Inc	3
435 Washington Bldg Washington 5 DC National Gasket & Washer Mfg Co	27
124 E 25 St New York 10 NY 9-13-14-15-25-26-	27-31

	Saratoga Plastics Inc N Walpole NH 27	1528 E 1 St Sandusky Ohio 3
475 Washington St Newark 2 NJ 27 National Tel-Tronics Corp	Sauereisen Cements Co	U S Plywood Corp
52 St Casimir Ave Yonkers NY 27-28	1045 N Canal St Pittsburgh 15 Pa 5-6 Saxonburg Ceramics	55 W 44 St New York 36 NY 27-28 U S Rubber Co
National Vulcanized Fibre Co P O Box 311 Wilmington 99 Dela 14-15-28	Saxonburg Pa 3	1230 6 Ave New York 20 NY 35
Natvar Corp	Schenectady Varnish Co	U S Stoneware Co Alite Div Orville Ohio 3-29
211 Randolph Ave Woodbridge NJ 13 New England Laminates Co	Congress St & 9 Ave Schenectady 3 NY 6-11-30	Vitro Corp of America
481 Canal St Stamford Conn 18-25-26-27-28	Schjeldahl Co G T	261 Madison Ave New York 16 NY 3
New England Mica Co 66 Woerd Ave Waltham 54 Mass 18-21-22	Northfield Minn 27	Vocalite Screen Corp 19 Debevoise Ave Roosevelt NY 27
New England Tape Co	Schrack Electrical Sales Corp 45 W 81 St New York 24 NY 3	Vorne Co
30 Tower St Hudson Mass 5-6-27-35	Schweitzer Inc Peter J	147 Meadow Rd Rutherford NJ
New Jersey Wood Finishing Co Amboy Ave Woodbridge NJ 4-27-35	261 Madison Ave New York NY 25	Waldom Electronics Inc 4625 W 53 St Chicago 32 III 11-14
Nichols Products Co	Scientific Glass Apparatus Co 100 Lakewood Terrace Bloomfield NJ 17	Walsco Electronics Mfg Co
325 W Main St Moorestown NJ 23	Seamless Rubber Co	100 W Green St Rockford III 11-18
Niemand Bros 37-05 35 Ave Long Island City 1 NY 25	253 Hallock Ave New Haven 3 Conn 34-35 Secon Metals Corp	Weckesser Co 5701 Northwest Hwy Chicago 30 III 23
Norrich Plastics Corp	7 Intervale St White Plains NY 11	Western Gold & Platinum Co
35 E 32 St New York 16 NY 27 Northern Plastics Corp	Shamban & Co W S	525 Harbor Blvd Belmont Calif 3
2nd Market St LaCrosse Wis 18-28	11617 W Jefferson Blvd Culver City Calif 27-28	Westlake Plastics Co 133 W Lenni Rd Lenni Mills Pa 27
Northern Industrial Chemical Co 7 Elkins St S Boston 27 Mass 27	Sherwin-Williams Co	Wheaton Co T C
Norton Co	101 Prospect Ave Cleveland 1 Ohio 11-30 Silicone Insulation Inc	Millville NJ Whitso Inc
1 New Bond St Worcester 6 Mass 3-19-24	Seabury Ave & Butler Pl	9330 Byron St Schiller Park Ill 27
Nukem Products Corp 111 Colgate Ave Buffalo 20 NY 27-28-30	Bronx 61 NY 16-26-27-28-31	Wilmington Fibre Specialty Co
Nureco Inc	Sillcocks-Miller Co 10 W Parker Ave Maplewood NJ 27-28	Window Aircraft Corp of Florida
1100 Pontiac Ave Cranston 10 RI 27 Ohio-Apex Div Food Mchy &	Smooth-On Mfg Co	P O Box 2397 Drane Fleid Lakeland Fla 20
Chemical Corp Nitro W Va 5-6-27	572 Communipaw Ave Jersey City 4 NJ 5-30	Wisconsin Porcelain Co 121 Lincoln St Sun Prairie Wisc 3-29-33
Okonite Co 2200 Passaic St Pasasic NJ 35	Solar Mfg Corp 4553 Seville Ave	Zenith Plastics Co
2200 Passaic St Pasasic NJ 35 Olympic Plastics Co	Los Angeles 58 Calif 3-10-33	1600 W 135 St Gardena Calif 26-27-26
3471 S LaCienega Blvd	Sound Screen Supplies Inc 752 Broadway New York 3 NY 27	Zophar Mills Inc 112 26 St Brooklyn 32 NY 56
Los Angeles 16 Calif 27-28 Organic Development Corp	Sparta Mfg Co	
8841 Orangewood Ave Anaheim Calif 5-6-27	Dover Ohio 27	33—INSULATORS
Oronite Chemical Co 200 Bush St San Francisco 20 Calif 10	Spaulding Fibre Co 310 Wheeler St	1 1 1
Osborne Electronic Corp	Tonawanda NY 14-15-17-25-28	Insulators, antenna
712 SE Hawthorne Blvd Portland 14 Ore 27	Spraylat Corp 1 Park Ave New York 16 NY 27	Insulators, bearing
Paul F H & Stein Bros 235 5 Ave New York 16 NY 12	1 Park Ave New York 16 NY 27 Spruce Pine Mica Co	Insulators, ceramic 4
Penn Fibre & Specialty Co	P O Box 456 Spruce Pine NC 21	Insulators, cord5
2020 E Westmoreland St Philadelphia 34 Pa 14-15-17-25-27-28-31	Star Porcelain Co Muirhead Ave Trenton 9 NJ 29	Insulators, coupling
Perfection Mica Co Magnetic Shield Div	Sterling Varnish Co	Insulators, fabricated/
20 N Wacker Dr Chicago 6 Ill 21 Permacel Tape Corp	Haysville Borough Sewickley Pa 5-6-11	Insulators, feed through 8
U S Hwy 1 New Brunswick NJ 35	Stevens Paper Mills Windsor Conn 25	Insulators, alass bonded mica y
Permonite Mfg Co	Stevenson Bro	Insulators, H. V. power line 10
444 Lake Shore Dr Chicago 11 Ill 14-15-18-26-28	110 Race St Philadelphia 6 Pa 6 Steward Mfg Co D M	Inisuators, laminated 11
Plastic Accessories Inc	Chattanooga Tenn 3-29-33	Insulators, metallized bushing 12
91 Mercer St New York 12 NY 27-28 Plasticite Corp	Stokes Molded Products Div Electric	Insulators, mica
327 Rider Ave Bronx 51 NY 27	Storage Battery Co 241 Taylor St Trenton 4 NJ 27-31	Insulators, plastic
Plastic-Craft Products Corp 1 Station Plaza W Nyack NY 27-28	Stone City Machine & Tool Co	Insulators, rods
Plectron Corp	1206 7 St Bedford Ind 25	Insulators, sheets
Overton Nebr 27	Stupakoff Div Carborundum Co Latrobe Pa 3-10-33	Inculators, shock
Polymer Corp 2120 Fairmont Ave Reading Pa 27-30	Sun Chemical Corp	Inculators, sleeve
Polymer Industries Inc	Sun Chemical Corp	
	10-10 44 Ave Long Island City 1 NY 25	Insulators, standoff
Springdale Conn 6	10-10 44 Ave Long Island City 1 NY Superior Steatite & Ceramic Corp 91 W Forest Ave Englewood NJ 3-33	Insulators, standoff 20
Springdale Conn 6 Ponn Machine Cutting Co Tileston St Everett 49 Mass 31	10-10 44 Ave Long Island City 1 NY 25 Superior Steatite & Ceramic Corp 91 W Forest Ave Englewood NJ 3-33 Swedlow Plastics Co	Insulators, standoff
Springdale Conn Ponn Machine Cutting Co Tileston St Everett 49 Mass Porcelain Products Inc	10-10 44 Ave Long Island City 1 NY Superior Steatite & Ceramic Corp 91 W Forest Ave Englewood NJ 3-33 Swedlow Plastics Co 6986 Bandini Blvd	Insulators, standoff 20
Springdale Conn Ponn Machine Cutting Co Tileston St Everett 49 Mass Porcelain Products Inc 420 W Sandusky St Findlay Ohio Pres Industrial Equipment Ltd	10-10 44 Ave Long Island City 1 NY 25 Superior Steatite & Ceramic Corp 91 W Forest Ave Englewood NJ 3-33 Swedlow Plastics Co 6986 Bandini Blvd Los Angeles 22 Calif 17-27-28 Sulvania Electric Products Inc	Insulators, standoff
Springdale Conn Ponn Machine Cutting Co Tileston St Everett 49 Mass Porcelain Products Inc 420 W Sandusky St Findlay Ohio Pres Industrial Equipment Ltd Box 302 Putt Corners Rd N	10-10 44 Ave Long Island City 1 NY Superior Steatite & Ceramic Corp 91 W Forest Ave Englewood NJ 3-33 Swedlow Plastics Co 6986 Bandini Blvd Los Angeles 22 Calif Sylvania Electric Products Inc 17-40 Broadway New York 19 NY 21-22-27-32	Insulators, standoff
Springdale Conn Ponn Machine Cutting Co Tileston St Everett 49 Mass Porcelain Products Inc 420 W Sandusky St Findlay Ohio Pres Industrial Equipment Ltd Box 302 Putt Corners Rd N New Paltz NY Printloid Corp	10-10 44 Ave Long Island City 1 NY Superior Steatite & Ceramic Corp 91 W Forest Ave Englewood NJ Swedlow Plastics Co 6986 Bandini Blvd Los Angeles 22 Calif 17-27-28 Sylvania Electric Products Inc 1740 Broadway New York 19 NY 21-22-27-32 Syncor Products Co	Insulators, standoff
Springdale Conn Ponn Machine Cutting Co Tileston St Everett 49 Mass Porcelain Products Inc 420 W Sandusky St Findlay Ohio Pres Industrial Equipment Ltd Box 302 Putt Corners Rd N New Paltz NY Printloid Corp 93 Mercer St New York 12 NY 26-27-28	10-10 44 Ave Long Island City 1 NY 25 Superior Steatite & Ceramic Corp 91 W Forest Ave Englewood NJ 3-33 Swedlow Plastics Co 6986 Bandini Blvd Los Angeles 22 Calif 17-27-28 Sylvania Electric Products Inc 1740 Broadway New York 19 NY 21-22-27-32 Syncor Products Co 30 Eastern Ave Malden 48 Mass 16 Synthane Corp	Insulators, standoff
Springdale Conn Ponn Machine Cutting Co Tileston St Everett 49 Mass Porcelain Products Inc 420 W Sandusky St Findlay Ohio Pres Industrial Equipment Ltd Box 302 Putt Corners Rd N New Paltz NY Printloid Corp 93 Mercer St New York 12 NY Quality Components Inc	10-10 44 Ave Long Island City 1 NY Superior Steatite & Ceramic Corp 91 W Forest Ave Englewood NJ Swedlow Plastics Co 6986 Bandini Blvd Los Angeles 22 Calif Sylvania Electric Products Inc 1740 Broadway New York 19 NY 21-22-27-32 Syncor Products Co 30 Eastern Ave Malden 48 Mass Synthane Corp Montgomery Ave Oaks Pa 18-26-27-28	Insulators, standoff
Springdale Conn Ponn Machine Cutting Co Tileston St Everett 49 Mass Porcelain Products Inc 420 W Sandusky St Findlay Ohio Pres Industrial Equipment Ltd Box 302 Putt Corners Rd N New Paltz NY Printloid Corp 93 Mercer St New York 12 NY Quality Components Inc St Marys Pa Ram Electronics Inc	10-10 44 Ave Long Island City 1 NY Superior Steatite & Ceramic Corp 91 W Forest Ave Englewood NJ Swedlow Plastics Co 6986 Bandini Blvd Los Angeles 22 Calif 17-27-28 Sylvania Electric Products Inc 1740 Broadway New York 19 NY 21-22-27-32 Syncor Products Co 30 Eastern Ave Malden 48 Mass 16 Synthane Corp Montgomery Ave Oaks Pa 18-26-27-28 Taylor Fibre Co Norristown Pa 15-16-17-18-25-26-27-28	Insulators, standoff
Springdale Conn   6	10-10 44 Ave Long Island City 1 NY Superior Steatite & Ceramic Corp 91 W Forest Ave Englewood NJ Swedlow Plastics Co 6986 Bandini Blvd Los Angeles 22 Calif 17-27-28 Sylvania Electric Products Inc 1740 Broadway New York 19 NY 21-22-27-32 Syncor Products Co 30 Eastern Ave Malden 48 Mass 16 Synthane Corp Montzomery Ave Oaks Pa 18-26-27-28 Taylor Fibre Co Norristown Pa 15-16-17-18-25-26-27-28 Technical Ply-Woods Sales	Insulators, standoff
Springdale Conn   6	10-10 44 Ave Long Island City 1 NY Superior Steatite & Ceramic Corp 91 W Forest Ave Englewood NJ Swedlow Plastics Co 6986 Bandini Blvd Los Angeles 22 Calif 17-27-28 Sylvania Electric Products Inc 1740 Broadway New York 19 NY 21-22-27-32 Syncor Products Co 30 Eastern Ave Malden 48 Mass 16 Synthane Corp Montzomery Ave Oaks Pa 18-26-27-28 Taylor Fibre Co Norristown Pa 15-16-17-18-25-26-27-28 Technical Ply-Woods Sales 6756 Crandon Ave Chicago 49 Ill 10-14-15	Insulators, standoff Insulators, test clip
Springdale Conn Ponn Machine Cutting Co Tileston St Everett 49 Mass Porcelain Products Inc 420 W Sandusky St Findlay Ohio Pres Industrial Equipment Ltd Box 302 Putt Corners Rd N New Paltz NY Printloid Corp 93 Mercer St New York 12 NY Quality Components Inc St Marys Pa Ram Electronics Inc 600 Industrial Ave Paramus NJ Raybestos-Manhattan Inc Plastic Products Div Manheim Pa Raytheon Mfg Co Ceramic Sales	10-10 44 Ave Long Island City 1 NY Superior Steatite & Ceramic Corp 91 W Forest Ave Englewood NJ Swedlow Plastics Co 6986 Bandini Blvd Los Angeles 22 Calif 17-27-28 Sylvania Electric Products Inc 1740 Broadway New York 19 NY 21-22-27-32 Syncor Products Co 30 Eastern Ave Malden 48 Mass 16 Synthane Corp Montzomerv Ave Oaks Pa 18-26-27-28 Taylor Fibre Co Norristown Pa 15-16-17-18-25-26-27-28 Technical Ply-Woods Sales 6756 Crandon Ave Chicago 49 Ill 10-14-15 Technicraft Co 1156 Commonwealth Ave Boston 34 Mass 27	Insulators, standoff Insulators, test clip
Springdale Conn Ponn Machine Cutting Co Tileston St Everett 49 Mass Porcelain Products Inc 420 W Sandusky St Findlay Ohio Pres Industrial Equipment Ltd Box 302 Putt Corners Rd N New Paltz NY Printloid Corp 93 Mercer St New York 12 NY Quality Components Inc St Marys Pa Ram Electronics Inc 600 Industrial Ave Paramus NJ Raybestos-Manhattan Inc Plastic Products Div Manheim Pa Raytheon Mfg Co Ceramic Sales Foundry Ave Wathham Mass Raytheon Mfg Co Microwave & Power Tube	10-10 44 Ave Long Island City 1 NY Superior Steatite & Ceramic Corp 91 W Forest Ave Englewood NJ Swedlow Plastics Co 6986 Bandini Blvd Los Angeles 22 Calif 17-27-28 Sylvania Electric Products Inc 1740 Broadway New York 19 NY 21-22-27-32 Syncor Products Co 30 Eastern Ave Malden 48 Mass 16 Synthane Corp Montcomery Ave Oaks Pa 18-26-27-28 Taylor Fibre Co Norristown Pa 15-16-17-18-25-26-27-28 Technical Ply-Woods Sales 6756 Crandon Ave Chicago 49 Ill 10-14-15 Technicraft Co 1156 Commonwealth Ave Boston 34 Mass 27 Telertro Industries Corp	Insulators, standoff Insulators, test clip
Springdale Conn Ponn Machine Cutting Co Tileston St Everett 49 Mass Porcelain Products Inc 420 W Sandusky St Findlay Ohio Pres Industrial Equipment Ltd Box 302 Putt Corners Rd N New Paltz NY Printloid Corp 93 Mercer St New York 12 NY Quality Components Inc St Marys Pa Ram Electronics Inc 600 Industrial Ave Paramus NJ 600 Industrial Ave Paramus NJ 700 Raybestos-Manhattan Inc Plastic Products Div Manheim Pa 8 Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass 3-10 Raytheon Mfg Co Microwave & Power Tube Operations Foundry Ave Waltham Mass 3	10-10 44 Ave Long Island City 1 NY Superior Steatite & Ceramic Corp 91 W Forest Ave Englewood NJ 3-33 Swedlow Plastics Co 6986 Bandini Blvd Los Angeles 22 Calif 17-27-28 Sylvania Electric Products Inc 1740 Broadway New York 19 NY 21-22-27-32 Syncor Products Co 30 Eastern Ave Malden 48 Mass 16 Synthane Corp Montgomery Ave Oaks Pa 18-26-27-28 Taylor Fibre Co Norristown Pa 15-16-17-18-25-26-27-28 Technical Ply-Woods Sales 6756 Crandon Ave Chicago 49 Ill 10-14-15 Technicraft Co 1156 Commonwealth Ave Boston 34 Mass 27 Telertro Industries Corp 35-18 37 St Long Island City 1 NY 5-6	Insulators, standoff
Springdale Conn Ponn Machine Cutting Co Tileston St Everett 49 Mass Porcelain Products Inc 420 W Sandusky St Findlay Ohio Pres Industrial Equipment Ltd Box 302 Putt Corners Rd N New Paltz NY Printloid Corp 93 Mercer St New York 12 NY Quality Components Inc St Marys Pa Ram Electronics Inc 600 Industrial Ave Paramus NJ Raybestos-Manhattan Inc Plastic Products Div Manheim Pa Raytheon Mfg Co Ceramic Sales Foundry Ave Wathham Mass Raytheon Mfg Co Microwave & Power Tube	10-10 44 Ave Long Island City 1 NY Superior Steatite & Ceramic Corp 91 W Forest Ave Englewood NJ Swedlow Plastics Co 6986 Bandini Blvd Los Angeles 22 Calif 17-27-28 Sylvania Electric Products Inc 1740 Broadway New York 19 NY 21-22-27-32 Syncor Products Co 30 Eastern Ave Malden 48 Mass 16 Synthane Corp Montcomery Ave Oaks Pa 18-26-27-28 Taylor Fibre Co Norristown Pa 15-16-17-18-25-26-27-28 Technical Ply-Woods Sales 6756 Crandon Ave Chicago 49 Ill 10-14-15 Technicraft Co 1156 Commonwealth Ave Boston 34 Mass 27 Telertor Industries Corp 35-18 37 St Long Island City 1 NY 5-6 Terrell Corp 19 Lane St Waltham 54 Mass 5-6-30	Insulators, standoff Insulators, test clip
Springdale Conn Ponn Machine Cutting Co Tileston St Everett 49 Mass Porcelain Products Inc 420 W Sandusky St Findlay Ohio Pres Industrial Equipment Ltd Box 302 Putt Corners Rd N New Paltz NY Printloid Corp 93 Mercer St New York 12 NY Quality Components Inc St Marys Pa Ram Electronics Inc 600 Industrial Ave Paramus NJ Raybestos-Manhattan Inc Plastic Products Div Manheim Pa Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass Raytheon Mfg Co Microwave & Power Tube Operations Foundry Ave Waltham Mass REF Mfg Corp 393 Jericho Turnpike Mineola NY 27-28 Reichhold Chemicals Inc	10-10 44 Ave Long Island City 1 NY Superior Steatite & Ceramic Corp 91 W Forest Ave Englewood NJ Swedlow Plastics Co 6986 Bandini Blvd Los Angeles 22 Calif 17-27-28 Sylvania Electric Products Inc 1740 Broadway New York 19 NY 21-22-27-32 Syncor Products Co 30 Eastern Ave Malden 48 Mass 16 Synthane Corp Montzomery Ave Oaks Pa 18-26-27-28 Taylor Fibre Co Norristown Pa 15-16-17-18-25-26-27-28 Technical Ply-Woods Sales 6756 Crandon Ave Chicago 49 Ill 10-14-15 Technicraft Co 1156 Commonwealth Ave Boston 34 Mass 27 Telectro Industries Corp 35-18 37 St Long Island City 1 NY 5-6 Terrell Corp 19 Lane St Waltham 54 Mass 5-6-30 Tevoo Insulated Wire	Insulators, standoff Insulators, test clip
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Boonton Molding Co	Constant and the second	
326 Myrtle Ave Roonton NI 12 14 15	General RF Fittings Inc 702 Beacon St Boston 15 Mass 7-8-22	National Ceramic Co
Borden Co Chemical Div Resinite Dept P O Box 1589 Santa Barbara Calif	Glastic Corp	500 Southard St Trenton 2 NJ 1-4-8-12-20 National Company Inc
Borden Co Chemical Div	4321 Glenridge Rd Cleveland 21 Ohio 14-15-16-17-20	61 Sherman St Malden 48 Mass 1-4-8-20
350 Madison Ave New York 17 NY 19 Brand & Co William	Goe Eng'g Co	National Moldite Co
41 North St Willimantic Conn 10	219 S Mednik Ave Los Angeles 22 Calif 8 Grayhill Inc	1410 Chestnut Ave Hillside 5 NJ 19 National Tel-Tronics Corp
Brand Dielectrics Inc 57 North St Willimantic Conn 11-13	561 Hillowers A. T. C.	52 St Casimir Ave
Bristol Co	Gremar Mig Co	Yonkers NY National Vulcanized Fibre Co 7-11-15-16-17
P O Box 1790 EITT Waterbury 20 Conn 4-22 British Electronic Sales	7 North Ave Wakefield Mass 15 Gries Reproducer Corp	P O Box 311
Box 132 Oakland Garden 64 NV 4-8-10-19-20	125 Beechwood Ave New Poshelle NV 9 15	Wilmington 99 Dela 7-11-15-16-17
Duchanan Electrical Products Corp	660 Main St Walnus M.	Natvar Corp 211 Randolph Ave Woodbridge NJ 15-19
Cambridge Thermionic Corp	Hermetic Seal Corp	New England Laminates Co
440 Concord Ave Cambridge 20 Man 40 00	29 S 6 St Newark 7 NJ Hobson Bros	481 Canal St Stamford Conn 11-15-17 New England Mica Co
Centralab Div Globe Union Inc 900 E Keefe Ave Milwaukee 1 Wis 4-8-12-20	4940 W Lawrence Ave Chierry 20 TH	66 Woerd Ave Waltham 54 Mass 9-13
Ceramasear Inc		New England Tape Co
P O Box 25 New Lebanon Center NY 8 Channel Master Corp	322 Houghton Ave Olean NY Huse Liberty Mica Co	30 Tower St Hudson Mass 15-19 Nichols Products Co
Ellenville NY	Peabody Industrial Center Peabody Mass 9-13	325 W Main St Moorestown NJ 7-11-15-16-17
1971 W North Arr Cli	325 E Hoyne Ave Chiange 10 Til + 0 + 40 a	Northern Plastics Corp 2nd Market St LaCrosse Wis 7-11-15-17
Cincinnati Molding Co		Ohio Brass Co
2037 Florence Ave Cincinnati 6 Ohio 14-15 Clear Beam Antenna Corp	420 N LaSalle St Chicago 18 Ill 22 Industrial Accessories Inc	380 N Main St Mansfield Ohio 10
21341 Roscoe Blvd Canoga Park Colif	Line Rd Matawan N.I	Parker Metal Goods Co 85 Prescott St Worcester 5 Mass 15
Clowes Ceramic Corp 3711 Calhoun Ave Chattanooga 7 Tenn 4-20	982 River Dd Edmand	Penn Fibre & Specialty Co
Cievelaliu Container I'n	INCUSTRIAL Engravers Inc	2020 E Westmoreland St Philadelphia 34 Pa 7-11-15-16-17-18
6201 Barberton Ave Cleveland 2 Ohio 15 Colonial Insulator Co	2212 McDonald Ave Brooklyn 23 NY Insulating Fabricators of N E Inc	Philadelphia 34 Pa 7-11-15-16-17-18 Permonite Mfg Co
945 Grant St Akron 11 Ohio 4-10-12-20-22 22		444 Lake Shore Dr
	Insulation Mfrs Corp 565 W Washington Blvd	Chicago 11 Ill 7-11-15-16-17-18 Petroff Corp Peter A
6025 N Keystone Ave Chicago 30 III Consolidated Wire & Associated Cos	Unicago 39 III 7 0 11 10 14 1	127 Water St New York 5 NY 1-8
1000 5 Clinton St Chicago 16 Til	Insuline Corp of America	Plastic Accessories Inc 91 Mercer St New York 12 NY 15
Cook Ceramic Mfg Co Prospect St Trenton NJ	186 Granite St Manchester NH 7 Integrated Mica Corp	Plasticite Corp
Crane Packing Co	202 Franklin Pl Woodmere LI MV 40 10	327 Rider Ave Bronx 51 NY 20
6400 Oakton St Morton Grove Ill 8-15-20 Crown Industrial Products	Isolantite Mfg Corp Warren Ave	Plastic-Craft Products Corp 1 Station Plaza W Nyack NY 11-15
113 Amsterdam Woodstock Til	Stirling NJ 1-2-3-4-6-7-8-12-16-19-29-29	Plastic Mold & Eng'g Co
Lenni Rd Lenni Milla Da	Jan Hardware Mfg Co	157 Clifford St Providence RI 15 Porcelain Products Inc
Decatur Electronic Industries Com	75 N 11 St Brooklyn 11 NY 6-10-14-18-20 Jodee Plastics Co	420 W Sandusky St Findlay Ohio 1-4
Rright waters T.T. No.	213 Shepherd Ave Brooklyn 8 NV	Polymer Corp 2120 Fairmont Ave Reading Pa 15-16-17
Dennison Mfg Co	220 E 40 St Now York 10 Nov	Precision Paper Tube Co
300 Howard St Framingham Mass Diamonite Products Mfg Co	Johnson Co E F	2035 W Charleston St
21/ 4 St NE Canton 2 Object 4 19 16 19 99	Waseca Minn 1-4-6-8-20 Jones Electronics Hiram	Chicago 47 Ill Premax Products Div Chisholm-Ryder Co
Cedar & Gross Sta D. 1 277	2313 W Olive St	College & Highland Aves
Dittinore-Freimith Corn	Burbank Calif	Niagara Falls NY Printloid Corp
2517 E Norwich St Milwaukee 7 Wis Du-Co Ceramics Co	423 Broome St Man V 1 42 27	93 Mercer St New York 12 NY 15
Box 278	Airciberger & Co M	Quality Components Inc
Saxonburg Pa 1-2-3-4-8-14-16-19-20-22 Elco Corp	83 W Forest Ave Englewood NJ 2-4-14 Laminated Sheet Products Corp	Raybeston-Manhattan Inc Plastic
M St below Eric Ave	449 Nenonset St Nonnead M. A. A. A.	Products Div Manheim Pa 15
Philadelphia 24 Pa 13-14-15 Electrical Refractories Co	Papp Insulator to Radio Specialties Di-	Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass 4-8-12-20
E Clark St E Palestine Ohio	24 Summer St LeRoy NY 1-4-8-10-16-20-23 Lee Chemical Corp Walter	name with Co Microwave & Power Tube
Electrical Specialty Co	Seabury Ave & Butler Pl	Operations Foundry Ave Waltham Mass 4-20 Red Seal Electric Co
158 11 St San Francisco 3 Calif 4-9-11-13-15 Electronic Mechanics Inc	Bronx 61 NY 7-15-16-17-19 Leeds & Northrup Co	6321 Detroit Ave Cleveland 2 Ohio 7-11-14-15
101 Clifton Blvd Clifton NJ Electro-Technical Products Div	4970 Stenton Ave Philadelphia 44 Po 22	Reid Enterprises 2610 E 67 St Long Beach 5 Calif 14-15
Sun Unemical Corn	Lerco Electronics Inc	Resistoflex Corp
113 E Centre St Nutley 10 NJ 11 Emeloid Co	501 S Varney St Burbank Calif 8-20 Louthan Mfg Co	Woodland Rd Roseland NJ 1-7-14-15-16-17-19-20
1239 Central Ave Willeide F NIV	Harvey Ave E Liverpool Ohio	Richardson Co
Gillerson & Cilming Inc	Maigne Co O J	27 Ave & Lake St Melrose Park Ill 7-11-14-15-16-17
869 Washington St Canton 1 Mass 11 Emerson Plastics Corp	Maylair Molded Products Com	Richards Co Arklay S
Seabury Ave & Butler Pl	3700 N Rose St Franklin Park III 7-14-15 Methode Mfg Corp	35 Winchester St Newton Highlands 61 Mass 22
Enflo Corp	7447 W Wilson Ave	Roberts Toledo Rubber Co
Rte 38 at Airport Circle Pennsauken 11 NJ 6-8-14-16-17-19-20	Harwood Heights III	Robinson Aviation Inc
Erie Resistor Corp	Mica Fabricating Co Rochelle Park NJ 3-7-9-11-13-14-15-16	Teterboro NJ 18
644 W 12 St Erie 6 Pa 4-8-15-20	Mica Insulator Co	Robinson Machine Works 802 E 8 St New Albany Ind 15
Farnsworth Electronic Co Pacific Div 815 S San Antonio Rd Palo Alto Calif 4-8-20	797 Broadway Schenectady 1 NY 13 Micarta Fabricators Inc	Royan Bros
rim & Co I R	5324 N Ravenswood Ave	8031 N Monticello Ave Skokie III 15 Rogers Corp
200 Central Ave Hawthorne NJ 18 Fluorocarbon Products Inc	Chicago 40 Ill 11-15-20 Micromold Products Corp	Rogers Conn 7-11-17
DIV U S Gasket Co	1 School St Yonkers NY 15	Rubbercraft Corp of Calif 1800 W 220 St Torrance Calif
602 N 10 St Camden 1 NJ 1-8-14-15-17-20-21 Formica Corp	Millen Mfg Co James	Safetee Glass Co
4614 Spring Grove Ave	150 Exchange St Malden 48 Mass 4-6-14 Minnesota Rubber & Gasket Co	4717 Stenton Ave Philadelphia 44 Pa 9-11
Cincinnati 32 Ohio 15 Franklin Fibre-Lamitex Corp	3630 Wooddale Ave St Louis Park	Saxonburg Ceramics Saxonburg Pa 2-4-20-22
Wilmington Dela 15	Minneapolis 16 Minn 6-14-16-17 Minor Rubber Co	Schrack Electrical Sales Corp
Muinhard Appreciain Co	Ackerman St	45 W 81 St New York 24 NY 4 Shamban & Co W S
Fretco Inc	Bloomfield NJ 14-15-16-17-18-19 Mitronics Inc	11617 W Jefferson Blvd
406 N Craig St Pittsburgh 13 Pa 1-4-8-14-15 Furane Plastics Inc	1290 Central Ave Hillside NJ 4-8-12-19-20	Culver City Calif 8-15-20 Sheffco Mfg Corp
4516 Brazil St	Moided Fiber Glass Co	323 Bergen Blvd Fairview NJ 7-11
Los Angeles 32 Calif 11-14-15-16-17 Garde Mfg Co	4801 Benefit Ave Ashtabula Ohio Molded Products Div Admiral Corp	Silicone Insulation Inc Seabury Ave & Butler Pl
588 Eddy St Providence 3 RI 1-7-8-14-15-20	Washington & Creamery Rd	Bronx 61 NY 1-7-11-14-16-17-19
Gee-Lar Mfg Co	W Chicago Ill Mosley Electronics Inc	Silicone Seals Inc 3125 Milwauke Ave Chicago 18 Ill 8-20
418 S Wyman St Rockford III 1-14-15-20 General Cement Mfg Co Div Textron Inc	8622 St Charles Rock Rd	Sillcocks-Miller Co
100 S wyman St	St Louis 14 Mo Mueller Electric Co	10 W Parker Ave Maplewood NJ 14-15
Rockford Ill 1-8-14-15-16-18-19-20-21 General Ceramics Corp	1585H E 31 St Cleveland 14 Ohio 21	Sinclair Mfg Co P O Box 243 Chartley Mass 11-15
Keasbey NJ 1-9-19 19 20 22	Mycalex Corp of America 125 Clifton Blvd Clifton NJ 9-13	Smith Inc Herman H
General Components Inc 225 E 144 St Bronx 51 NY 8-15	Mykroy Inc	2326 Nostrand Ave Brooklyn 10 NY 6-19-21 Solar Mfg Corp
225 E 144 St Bronx 51 NY 8-15	Wheeling Ill 1-2-4-7-8-9-10-14-15-16-17-19	4553 Seville Ave Los Angeles 58 Calif 4

Sparta Mfg Co Dover Ohio 8-15-19	Aerolite Electronics Corp. 507 26 St Union City NJ 2	Nucleonic Corp of America 196 Degraw St Brooklyn 31 NY 7
Spaulding Fibre Co	Alden Products Co	Packard Bell Electronics Corp
310 Wheeler St Tonawanda NY 15 Spruce Pine Mica Co	123A N Main St Brockton Mass 2-4 Aladdin Electronics	12333 W Olympic Blvd Los Angeles 64 Calif 8-10
P O Box 456 Spruce Pine NC 13 Star Porcelain Co	100 Blanton Ave Nashville 10 Tenn 4 Allied Radio Corp	Paco Inc 70-31 84 St Glendale 27 NY
Muirhead Ave Trenton 9 NJ Stevens Products Inc	100 N Western Ave 2-3-4-6- Chicago 80 III 10-11-12	Parker Metal Goods Co 85 Prescott St Worcester 5 Mass
86 Main St E Orange NJ 7-11-14-15 Steward Mfg Co D M	American Electronics Co	PCA Electronics Inc
Chattanooga Tenn 2-4-16-17-18-19-20-21-22-23	1203 Bryant Ave New York 59 NY 1-12 American Machine & Foundry Co	16799 Schoenborn St Sepulveda Calif Philmore Mfg Co
Stone City Machine & Tool Co 1206 7 St Bedford Ind 7-14-17-19	Defense Products Group 1101 N Royal St Alexandria Va 3-8-11	113 University Pl New York 3 NY 1-3-6-10-12
Stupakoff Div Carborundum Co Latrobe Pa 1-2-4-6-8-20-22	Anton Electronic Labs	PIC Design Corp 477 Atlantic Ave E Rockaway LI NY 2
Sun Chemical Corp	1226 Flushing Ave Brooklyn 6 NY 4-6-7-8-11 Automation Electronics Inc	Polyphase Instrument Co
10-10 44 Ave Long Island City 1 NY 7-11-15	231 W Olive St Burbank Calif Beckman Helipot Corp	E 4 St Bridgeport Pa Pomona Electronics Co
Superior Steatite & Ceramic Corp 91 W Forest Ave Englewood NJ 2-4-14	Newport Beach Calif  Berkshire Labs	1126 W 5 Ave Pomona Calif Precise Development Corp
Surprenant Mfg Co 172 Sterling St Clinton Mass 15	586 Bank Village Greenville NH 4	2 Neil Ct Oceanside NY 3-5-10-11-12
Swedlow Plastics Co 6986 Bandini Blyd	Bernco Engineering Corp 2320 S Tibbs Ave Indianapolis 41 Ind 2-6	Precision Metal Products Co 41 Elm St Stoneham Mass
Los Angeles 22 Calif 11-15-17-23	Birnbach Radio Co 145 Hudson St New York 13 NY 1	Pye Telecommunications Ltd Newmarket Rd Cambridge England 3-8
Swenson & Co V H 554 Elm St Arlington NJ 15	Brach Mfg Corp	Radio City Products Co Centre & Glendale Sts Easton Pa 6-7-11
Swiss Jewel Co Lafayette Bldg Philadelphia 6 Pa 3	Cambridge Thermionic Corp	Ransom Research 323 W 7 St San Pedro Calif 5
Sylvania Electric Products Inc 1740 Broadway New York 19 NY 13	445 Concord Ave Cambridge 38 Mass 4 Central Electronics Inc	Design Instrument Corp
Syncor Products Co	1247 W Belmont Ave Chicago 13 Ill 3-11-12	Deing Floatronics Co
Malden 48 Mass 12-19-20-23	Certified Radio Labs	Centre & Glendale Sts Easton Pa
Synthane Corp Montgomery Ave Oaks Pa 11-15-16-17	5507 13 Ave Brooklyn 19 NY 6-10 Channel Master Corp	2414 Reedie Dr Silver Spring and
Taylor Fibre Co Norristown Pa 1-3-6-7-10-11-15-16-17-19-20	Ellenville NY Clear Beam Antenna Corp	8233 S Princeton Ave Unicago 20 111
Tevco Insulated Wire  108 E Prospect Ave Burbank Calif 20	21341 Roscoe Blvd Canoga Park Calif 1	Seco Mfg Co 5015 Penn Ave S Minneapolis 19 Minn 11
Thomas & Sons R	Colman Tool & Machine Co 1017 NE 3 Ave Amarillo Texas 8	Service Instruments Corp 171 Official Rd Addison Ill
Lisbon Ohio 1-4-10-20 Tri-Dex Electronics	Conn Telephone & Electric Corp 70 Brittania St Meriden Conn 3-8	Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY 2
P O Box 1207 Lindsay Calif 7-11-15 Tri-Point Plastics Inc	Consolidated Wire & Associated Cos 1635 S Clinton St Chicago 16 Ill 1	Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif 2
175-I U Willets Rd 1-7-8-11-15- Albertson LI NY 16-17-19-20	Dale Boisen Co	Snyder Mfg Co
United Mineral & Chemical Corp	2928 Nebraska Ave Santa Monica Calif 2 DeWald Radio Mfg Corp	22 & Ontario Sts Philadelphia 40 Pa Specific Products Co
16 Hudson St New York 13 NY 13 Universal Clay Products Co	35-15 37 Ave Long Island City 1 NY 10 Doty Acoustical Electronic Labs	14515 Dickens St Sherman Oaks Call 2 Superex Electronics Corp
1528 E 1 St Sandusky Ohio 1-4 Uniwaye Inc	431 Broome St New York 13 NY 6-10	4 Radford Pl Yonkers NY 2-4-6-10 Swan Electronics Co
2 Marine St Farmingdale NY 8-20	Du Mont Labs Inc Allen B 760 Bloomfield Ave Clifton NJ 2-6	5016 N Austin Ave Chicago 30 III 6-10
U S Stoneware Co Alite Div Orville Ohio 4-12	Dyna Co 5142 Master St Philadelphia 31 Pa 6	Symphony Electronics Corp 925 S Western Ave Los Angeles 6 Calif 10
Vaco Products Co 317 E Ontario St Chicago 11 III 15-19	Elco Corp	Tatnall Measuring Systems Co Kimberton Rd Phoenixville Pa 2
Vacuum Tube Products Co 506 S Cleveland St Oceanside Calif	M St below Erie Ave Philadelphia 24 Pa 4 Electronic Instrument Co	Tech-Master Corp 75 Front St Brooklyn 1 NY 6-10
Varflex Corp 511 W Court St Rome NY 15-19	84 Withers St Brooklyn 11 NY 6-7-10-11	Techniques Inc
Victor Insulator Div I-T-E Circuit	Electronic Measurements Corp 625 Broadway New York 12 NY 11	Tec-Kit Co
Breaker Co Maple Ave Victor NY 4-10-20 Vitroseal Corp	Engineering Developments Inc	Box 8827 Kansas City 15 Mo 1-2-3-4-5-6-7-8-9-10-11-12
709 E 106 St Indianapolis 20 Ind 8-20 Voltube Corp	Erie Resistor Corp	Telegraph Condenser Co N Acton London W 3 England 4
Lincoln Hwy Menlo Park NJ 19 Wade Electric Products Co	644 W 12 St Erie 6 Pa 2-4 First Electronics Corp	Telematic Industries Inc 16 Howard Ave Brooklyn 7 NY
Box 271 Sturgis Mich 14-15-19 Western Coil & Electrical Co	117 Blue Hill Ave Boston 19 Mass 4-6-8	Temco Aircraft Corp
215 State St Racine Wis 20	Gardiner Electronics Co 2545 E Indian School Rd	P O Box 6191 Dallas 2 Texas Torocoil Co
Westinghouse Electric Corp P O Box 868 Pittsburgh 30 Pa 4	Phoenix Ariz 3-10 G & M Equipment Co	2615 Bristol Rd Columbus 21 Obio Tran-Kit Electronics Co
West Instrument Corp 4363 W Montrose Ave Chicago 41 III 22	7315 Varna Ave N	467 S 5 Ave Mt Vernon NY Transvision Inc
Westline Products Div Western Lithograph Co 600 E 2 St Los Angeles 54 Calif 15	Giannini & Co G M	460 North Ave New Rochelle NY 6-10
West Virginia Pulp & Paper Co	Coldale Co	Tricraft Products Corp 1535 N Ashland Ave Chicago 22 III
230 Park Ave New York 17 NY 14 Wheaton Co T C	1544 W Glenoaks Blvd Glendale 1 Calif 3-7 Gyro Electronics Co	TV Hardware Mfg Co Div Textron Inc 400 S Wyman St Rockford Ill
Millville NJ 8-12-20 Whitaker Cable Corp	325 Canal St New York 13 NY 6-10-12	University Loudspeakers Inc 80 S Kensico Ave White Plains NY
1301 Burlington St N Kansas City 16 Mo 15-19	Hal-Hen Co 36-14 11 St Long Island City 6 NY 10	Valandy Electronics Corp 61-35 166 St Flushing 68 NY 2-4-6-10
Whitso Inc 9330 Byron St Schiller Park III 20	Heath Co 305 Territorial Rd	Vector Electronic Co
Wilmington Fibre Specialty Co	Benton Harbor Mich Hickok Electrical Instrument Co	3352 San Fernando Rd Los Angeles 65 Calif
New Castle Dela 7 Winder Aircraft Corp of Florida	10514 Dupont Ave Cleveland 8 Onto 11	Victory Eng'g Corp 117 Springfield Rd Union NJ
P O Box 2397 Drane Field Lakeland Fla 1 Wind Turbine Co	Hill & Co E Vernon PO Box 189 Lake Geneva Wisc 11	Vokar Corp 7300 Huron River Dr Dexter Mich
E Market St & PRRW Chester Pa 1 Wisconsin Porcelain Co	Hubbell Inc Harvey State St & Bostwick Ave	Walsco Electronics Mfg Co 100 W Green St Rockford III
121 Lincoln St Sun Prairie Wis 4-8	Bridgeport 2 Conn Insuline Corp of America	Warren Mfg Co
24 VITS	186 Granite St Manchester NH	Winder Aircraft Corp of Florida
34—KITS	JFD Mfg Co 6101-16 Ave Brooklyn 4 NY	P O Box 2397 Drane Field Lakeland Fla 3-4-5-6-8-11-12
Antenna, home 1	Johnson Co E F Waseca Minn 12	Worner Electronic Devices Rankin Ill
Breadboard	Keil Eng'g Products Co	WRL Electronics Inc 3415 W Broadway Council Bluffs Iowa 12
Component 4	Kit-Tronics	5415 W Droauway Council Diulis 10wa 12
Computer 5	2315 Hendola Dr N E Albuquerque New Mex 6-11	35-LIGHTING EQUIPMENT &
Electronic	Labko Scientific Inc	ACCESSORIES
Geiger counter	LaPointe Industries Inc	
Portable lighting 9	155 W Main St Rockville Conn Miller Co J W	Accessories & supplies 1 Cold cathode
Receiver	5917 S Main St Los Angeles 3 Calif 10	Consoles, control 3
Transmitter	National Coil Co PO Box 1237 Sheridan Wyo 4	Dimmers 4

Gobos 5	Drake Mfg Co	W.D.C.
Lamps, infra-red 6	1713 W Hubbard St Chicago 22 III 14-20	M-B Communication Co 4626 Walnut St Philadelphia 39 Pa 26
Lamps, inspection 7	Edgerton, Germeshausen & Grier 160 Brookline Ave Boston 15 Mass 25	Mercury Electronic Co
Lighting, emergency 8	Edko Electronics Engly Co	Box 450 B Red Bank NJ 25 Micarta Fabricators Inc
Lighting, preset panels 9	202 Grand St Brooklyn 11 NY 23 Eldema Corp	5324 N Ravenswood Ave Chicago 40 III 14
Lighting, tower	9844 Remer St El Monte Calif Electric Cord Co	Mil Case Corp 35-18 37 St Long Island City NY 3
Lights, arc	21 Spruce St New York 38 NY 8	Miller-Trojan Co
Lights, black	Electronic Brazing Co	3 North Ridge Ave Troy Ohio 12 Mole-Richardson Co
Lights, dial	Electro-Physics Co	937 N Sycamore Ave Hollywood 38 Calif 1-11
Lights, flood	287 Broadway New York 7 NY 22 Engineering Developments Inc	National Carbon Co
Lights, fluorescent 16	Forest Ave Middletown DI -	Div Union Carbide & Carbon Corp 30 E 42 St New York 17 NY 8-19-20-21
Lights, glow	Co 42 S 15 St Dhill Hall Connect Battery	National Cine Equipment Inc
Lights, neon test	reueral Screw Products Inc	209 W 48 St New York 36 NY 1 New York Mfg & General Supply Co
Lights, signal	3917 N Kedzie Ave Chicago 18 Ill Flexo International Corp	10-38 Jackson Ave Long Island City 1 NY 18
Lights, spot 21	3255 W Lake St Chicago 24 III 16-19	Norco Mfg Co 392 Bleecker St
Meters, light 22	Florman & Babb 68 W 45 St New York 36 NY 1-5-11-15-21	New York 14 NY 2-13-15-16
Power supplies 23	Gales & Co Geo W	Norma Hoffmann Bearings Corp Walker Div Hamilton Ave Stamford Conn 23
Scoops	Hempstead Tpke & Lucille Ave Franklin Square LI NY 7-12-13-23	Northeast Electronics Corp
Stroboscopes	General Cement Mfg Co Div Textron Inc	PO Box 425 Concord NH 25 North American Electric Lamp Co
	400 S Wyman St Rockford III 7-14-19 General Electric Co Apparatus Sales Div	1520 N 13 St St Louis 6 Mo 6-20
Adams Lighting Inc 10 1 St Pelham NY 15-16-18-21	1 Miver Ru Schenectady 5 NV 90	Ohmite Mfg Co
Aerolite Electronics Corp	General Radio Co 275 Massachusetts Ave	3601 Howard St Skokie III 4 Onan & Sons D W
507 26 St Union City NJ 1-14 Aerolux Light Corp	Cambridge 39 Mass 4-22-25 Glen Falls Lab	2515 University Ave SE
653 11 Ave	Box 685 Glens Falls NY 22	Minneapolis 14 Minn 8-23
New York 36 NY 2-13-16-17-19-25 Air Transport Mfg Co	Gordon Enterprises	Pantek Co P O Box 212 El Segundo Calif 25
1114 N Sycamore Ave Los Angeles 38 Calif 3	5362 N Cahuenga Blvd N Hollywood Calif	Permonite Mfg Co
Airtron Inc 1101 W Elizabeth Ave Linden NJ 1	Warren Dr Interelectric Corp	444 Lake Shore Dr Chicago 11 Ill 14 Peschel Electronics Inc
Alden Products Co	Gyro Electronics Co	13 Garden St New Rochelle NY 23
123A Main St Brockton Mass 18-19 Allied Eng'g & Production Corp	325 Canal St New York 13 NY Hall-Scott Inc Electronics Div	Pioneer Gen-E-Motor Corp 5841 W Dickens Ave Chicago 39 Ill 23
2421 Blanding Ave Alameda Calif 16	2950 N Ontario St Rurbank Calle an ac	Production Research Corp
Aloe Scientific 5655 Kingsbury Blvd St Louis 12 Mo 6-22	100 Chestrut St Mfg Co	Thornwood NY The Pylc-National Co
American Television & Radio Co	Hanson-Corrill-Rrigh	1334 N Kostner Ave Chicago 51 Ill 15
300 E 4 St St Paul 1 Minn 23 Amglo Corp	85 Hazel St Glen Cove NY Harshaw Chemical Co	Radiant Lamp Corp 300 Jelliff Ave Newark 8 NJ 6
4333 Ravenswood Ave	1945 E 97 St Cleveland 6 Ohio	Radio Corp of America
Chicago 13 Ill 2-17-19-20 Andrew Antenna Corp	466 W Superior St Chicago 10 711	Camden 2 NJ 1-10-11 Radio Eng'g Co
606 Beech St Whitby Ontario Can 10 Andrew California Corp		8 State St New York 4 NY 11-23
941 E Marylind Ave Claremont Calif 10	Hetherington Inc.	Ready Power Co 11231 Freud Ave Detroit 14 Mich 8
Art Specialty Co	1200 Elmwood Ave Sharon Hill De 14 10 00	11231 Freud Ave Detroit 14 Mich 8 Sampson Chemical & Pigment Corp
Automatic Switch Co	10514 Dupont Ave Claud 10	2830 W Lake St Chicago 12 Ill 2-16
Hanover Rd Florham Park NJ 8 Barker & Williamson Inc		Sangamo Electric Co Springfield Ill 23
Canal & Beaver Sts Bristol Pa 10	Hobart Square E Troy 3 Ohio 8 Holland Electronics	Scientific Glass Apparatus Co
Berkshire Labs 586 Bank Village Greenville NH 25	2133 Central Dr S East Mondon NV .	100 Lakewood Terrace Bloomfield NJ 6-22
Black Light Corp of America	67 Riverdale Ave De Cl	Shannon Luminous Materials Co
5114 Walnut Grove Ave San Gabriel Calif 7 Black Light Eeastern Corp	muson Lamp Co	7356 Santa Monica Blvd Hollywood 46 Calif 7-13
33-00 Northern Light Blvd	528 Elm St Kearny NJ 17-18 Hughey & Phillips	Sheppard Co R H
Long Island City 1 NY 13 Bogue Electric Mfg Co	3300 N San Fernando Blvd	101 Philadelphia St Hanover Pa 23 Signalite Inc
Iowa Ave Paterson 3 NJ 4-23 Boulin Instrument Corp	Burbank Calif Industrial Devices Inc	37 Neptune Hwy Neptune NJ 17
10 1 St Pelham NY 25	982 River Rd Edgewater NI 17.10	Soderberg Mfg Co 628 S Palm Ave 8-9-10-11-13-14-15-
British Electronic Sales Box 132 Oakland Gardens 64 NY 14-17-19-20	Jan Hardware Mfg Co	Alhambra Calif 16-17-18-20-21
Brooks & Perkins Inc	Johnson Co E F Waseca Minn	Specialties Inc Skunks Misery Rd Syosset LI NY 22
1950 W Fort St Detroit 16 Mich 3 Burdick Corp	Joy Mfg Co Electrical Products Div	Spinform Inc
635 Plumb St Milton Wis	Kato Engrg Co	Stamford Metal Specialty Co
Cable Electric Products 234 Daboll St Providence 7 RI 7-8-17-19-20-21	1415 1 Ave Mankato Minn 23 Katolight Corp	427 W Broadway New York 12 NY 16-18-21
Camera Equipment Co	Box 891 Mankato Minn 99	Standard Electric Time Co 89 Logan St Springfield 2 Mass 8
315 W 43 St New York 36 NY 11-15 Century Lighting Inc	Katolight Corp	Stewart Warner Electronics Div
521 W 43 St	Kemlite Labs Inc	Stratford Corp
New York 36 NY 1-3-5-9-11-12-13-15-16-18-21 Channel Master Corp	1819 W Grand Ave Chicago 22 Ill 10-11-20 25	44 W 28 St New York 1 NY 4
Ellenville NY Chicago Miniature Lamp Works	Kirkland Co H R	Stroblite Co 75 W 45 St New York 36 NY 13
1500 N Ogden Ave	8 King St Morristown 4 NJ 14-20-21 Kliegl Bros	Strong Electric Corp 87 City Park Ave Toledo 1 Ohio 11-12-23
Chicago 10 Ill 7-14-17-18-20 Circon Component Co	321 W 50 St 2-3-9-11-12-13-	Superior Electric Co
Santa Barbara Municipal Airport	New York 19 NY 15-16-18-21-24 Laine Electronics & Mfg Co	83 Laurel St Bristol Conn 4-11 Sylvania Electric Products Inc
Goleta Calif Communication Measurements Labs	91 Industrial Ave Little Ferry NJ 35	1740 Broadway New York 19 NY 6-7-16-17-18
350 Leland Ave Plainfield N.I. or	LaPointe Industries Inc	Technicraft Co 1156 Commonwealth Ave Boston 34 Mass 17
Condenser Products Div New Haven Clock & Watch Co	Lee Electric & Mfg Co	Telegraph Condenser Co
140 Hamilton St New Haven 4 Conn 23 Conn Ltd C G	2806 Clearwater St Los Angeles 39 Calif 23 Lenox Instrument Co	N Acton London W 3 England 1 Terado Co
1101 E Beardsley Ave Elkhart Ind 25	2010 Chancellor St Philadelphia 3 Pa 7	1068 Raymond Ave St Paul 14 Minn 8-16 Terris Div Consolidated Siphon Supply Co
Dallons Labs 5066 Santa Monica Blvd	Linds Air Products Div Union Carbide & Carbon	22 Wooster St New York 13 NY 24
Los Angeles 29 Calif 2-13	30 E 42 St New York 17 NY 15	Transco Products Inc 12210 Nebraska Ave Los Angeles 25 Calif 21
Davenport Mfg Co	Lindgren & Associated Erik A 4515 N Ravenswood Ave	Tung-Sol Electric Inc
Dazor Mig Corp	Chicago 40 Ill 2-18	95 8 Ave Newark 4 NJ 14-18 TV Specialty Co
4481 Duncan Ave St Louis 10 Mo 7-16-18 DeJur-Amsco Corp Electronic Sales Div	Luxo Lamp Corp	350 W 31 St New York 1 NY 11-15-24
45-01 Northern Blvd	Luxor Lighting Products Inc	Ucinite Co Div United-Carr Fastener Corp 459 Watertown St Newtonville 60 Mass 19
Long Island City 1 NY Devco Eng'g Inc	350 5 Ave New York 1 NY 2-6-7-10-11-16-18 Magnaflux Corp	Ultra-Violet Products Inc 13
P O Box 387 Caldwell N.I	7300 W Lawrence Ave Chicago 31 Ill 7-13	5114 Walnut Grove Ave San Gabriel Calif 13 Universal Atomics Corp
Dialight Corp 60 Stewart Ave	Matchless Electric Co 1700 Washington Blvd	50 Bond St Westbury LI NY 23
Brooklyn 37 NY 14-17-18-20	Chicago 12 Ill 14-18-20	U S Radium Corp Morristown NJ 20

U S Relay Co	Brooks & Perkins Inc	General Magnetic Corp 10001 Erwin Ave Detroit 34 Mich 8
1744 Albion St Los Angeles 31 Calif 4	1950 W Fort St Detroit 16 Mich 5 Brush Beryllium Co	Canonal Magnetics Inc
Victory Mfg Corp 1722 W Arcade Pl Chicago 12 Ill 1	4301 Perkins Ave Cleveland 3 Ohio 9 Bundy Electronics Corp	135 Bloomheld Ave Bloomheld 140
Wappler Inc 27-10 Astoria Blvd Long Island City 2 NY 7	171 Fabyan Pl Newark 12 NJ 2	8317 Frankstown Ave Pittsburgh 21 14
Welch Mfg Co W M 1515 Sedgwick St Chicago 10 Ill 22	Burroughs Corp 6071 2 Ave Detroit 32 Mich	31 Wyckoff Ave Brooklyn 31 N1
Weston Electrical Instrument Corp Sub Daystrom Inc	Burroughs Corp Electronic Instruments Div 1209 Vine St Philadelphia 7 Pa 2	Globe Industries Inc 1784 Stanley Ave Dayton 4 Ohio 3
614 Frelinghuysen Ave Newark 12 NJ 22	Calif Magnetic Control Corp	Goslin Electric & Mfg Co 2921 W Olive Ave Burbank Calif 2
Wind Turbine Co E Market St & PRRW Chester Pa 10	11922 Valerio St N Hollywood Calif 2	Hycon Mfg Co 707 S Raymond Ave Pasadena Calif 2
Winpower Mfg Co Newton Iowa 8-23	Cannon-Muskegon Corp Box 506 Muskegon Mich 1	
Winkler Labs 5225 N 20 St Phoenix Ariz 25	Carpenter Steel Co Front & Bern Sts Reading Pa 1-9-12	12970 Bradley Ave Sylmar Calif Indiana Steel Products Co 7-8
Zoomar Inc	Cedar Eng'g Inc	Valparaiso Ind
oo bea chir five osen con	5806 W 36 St Minneapolis 16 Minn 2 CELCO Constantine Eng'g Labs Co	
36-MAGNETICS	PO Box 555 Mahwah NJ Cerro De Pasco Sales Corp	International Powder Metallican 9
Alloys, high permeability 1	300 Park Ave New York 22 NY 9	Jan Hardware Mig Co
Amplifiers, magnetic	Chemical Commerce 166 Clifford St Newark 5 NJ 9	Johnson Electronics Inc 521 Elwell St Orlando Fla
Ironoxides, magnetic 4	Chicago Electronic Eng'g Co 3223 W Armitage Ave Chicago 47 Ill 2	Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif 2
Magnesium 5	Chicago Magnetic Control 1616 N Damen Ave Chicago 47 Ill 2	
Magnetostriction	Chicago Standard Transformer Corp	82 Fulton St New York 38 NY Johnson Aircraft Eng'g Co M J Johnson Aircraft Eng'g Co M J
Magnets, permanent 8	City Chemical Corp	Morristown Airport Box 10 Morristown Aircraft & Electronics Corp
Metals, powdered 9	132 W 22 St New York 11 NY 9 Clark Controller Co	Toledo Electronics Div P O Box 437 Toledo Ohio
Permeameters, high H 10 Permeameters, R-F 11	1146 E 152 St Cleveland 10 Ohio 2 Coil Winders Inc	
Steel, electric	New York Ave Westbury LI NY 2	840 Barry St New Tolk of The
Acme Electric Corp	Columbian Carbon Co Mapico Color Unit 380 Madison Ave New York 17 NY 4	131-38 Sanford Ave Flushing 242
Adler Electronics Inc	Communication Accessories Co 110 St & 71 Hwy Hickman Mills Mo 2	904 23 St Union City No
LeFevre Lane New Rochelle N1 2	Conn Telephone & Electric Corp	Standard Coll Products Sub
2724 S Peck Rd Monrovia Calif	Control Div Magnetics Inc	
1 Central Ave W Orange NJ AiResearch Mfg Co Div Garrett Corp	Box 391 Butler Pa 2 Cook Electric Co	2133 Adams Ave San Deandro Carr
9851 Sepulveda Blvd Los Angeles 45 Calif 2	2700 Southport Ave Chicago 14 Ill 7 Crucible Steel Co of America	47-37 Austell Pl Long Island City 2
Airpax Products Co Middle River Baltimore 20 Md 2	Henry W Oliver Bldg Pittsburgh 22 Pa 8-12	3171 S Bundy Drive Santa Montea Cam-
Allegheny Ludlum Steel Corp Oliver Bldg Pittsburgh 22 Pa 12	Cutler-Hammer Inc 315 N 12 St Milwaukee 1 Wisc 7	Linlar Inc 4101 San Fernando Rd Glendale 4 Calif 2
Allis Co Louis 427 E Stewart St Milwaukee 1 Wis 2	Cycle Transformer Corp 356 Glenwood Ave E Orange 11 NJ 2	Litton Industries of Md Inc 4910 Calvert Rd College Park Md 2
Aloe Scientific	DeCoursey Eng'g Lab 11828 W Jefferson Blvd Culver City Calif 2	Lux Clock Mfg Co Johnson St Waterbury Conn 9
Alpha Metals Inc	Dal Floatronice Corn	Macarr Inc 2543 Boston Rd New York 67 NY 2
56 Water St Jersey City 4 NJ 9 Aluminum Co of America	41 N Mac Questen Pkwy Mt Vernon NY 2 Delta Chemical Works	
Alcoa Bldg Pittsburgh 19 Pa 5-9 American Electronics Inc	23 W 60 St New York 23 NY 4-5-9-12	198 Broadway New Too Sub Mack
655 W Washington Blvd	Deltime Inc 608 Fayette Ave Mamaroneck NY 6	Trucks Inc 1120 S 2 St Flatimete 170
American Gyro Corp	Diatron Co 3327 Dixie Dr Houston 21 Texas 2	11785 W Olympic Blvd W Los Angeles 64 Calif
3030 Nebraska Ave Santa Monica Calif 2 American Metal Co	Dow Chemical Co Midland Mich Dynamics Instrumentations Co	Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY 2
61 Broadway New York 6 NY American Research & Mfg Corp	Div Alberhill Corp	Magnetic Powders Inc
920 Halpine Ave Rockville Md 2 Amplex Div Chrysler Corp	Dynamics Research Associates	P O Box 247 Johnsonburg Pa Magnetic Research Corp
P O Box 2718 Detroit 31 Mich	Div Universal Match Corp PO Box 5841 Ferguson 21 Mo 2	3160 W El Segundo Biva Hawthorne Can 2
Antara Chemicals Div General Aniline & Film Corp 435 Hudson St New York 14 NY 9	Electomic Mechanisms Inc PO Box 1156 Greenwich Conn 3	42 S Gray St Indianapons o Ind
Armco Steel Corp 703 Curtis St Middletown Ohio 12	Electro Eng'g Works	47-37 Austell Pl Long Island City 1 212 -
Arnold Eng'g Co P O Box G Marengo Ill 8	401 Preda St San Leandro Calif	Metz Refinery Co 360 Mulberry St Newark 2 NJ
Atlas Eng'g Co 176 Blue Hill Ave	Electro-Mechanical Div General Riverters Inc 785 Hertel Ave Buffalo 7 NY	Midwestern Instruments P O Box 7186 Tulsa Okla
Roxbury 19 Mass 2-3-4-7-11	Electronic Research Associates 67 E Centre St Nutley 10 NJ 2	Milwaukee Transformer Co 5231 N Hopkins St Milwaukee 12 Wis 2
Atomic Labs Inc 3086 Claremont Ave Berkeley 5 Calif	Electronic Specialty Co	Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn
Autotronics Inc Rte 1 Box 812 Florissant Mo	5121 San Fernando Rd Los Angeles 39 Calif	Murex Ltd Rainham
Avion Div ACF Industries Inc 11 Park Pl Paramus NJ 2	Electrosolids Corp 7436 Varna Ave N Hollywood Calif 2	Essex England Modern Industries Inc
Barker Sales Co 996 Edgewater Ave Ridgefield NJ 8	Engineered Magnetics Div	2601 Colorado Ave Santa Monica Calif National Aircraft Corp Electronics Div
Basler Electric Co	Gulton Industries Inc 13030 Cerise Ave Hawthorne Calif 2	3411 Tulare Ave Burbank Calli National Moldite Co
Beckman/Berkeley Div Beckman	Exact Eng'g & Mfg Inc PO Box 668 Oceanside Calif 3	1410 Chestnut Ave Hillside 5 NJ Naybor Laboratories Inc E V
Instruments Inc 2200 Wright Ave Richmond 3 Calif 7	Fansteel Metallurgical Corp	2 Yennicock Ave Port Washington NY
Beckman/Helipot Corp Newport Beach Calif 3	Federal Telephone & Radio Co Div II & I	New Jersey Zinc Co 160 Front St New York 38 NY
Beckman Instruments Inc Data & Control	Feedback Controls Inc	Norden-Ketay Corp Commerce Road Stamford Conn
Systems Scientific Instrument Div 325 N Muller Ave Anaheim Calif 2	899 Main St Waltham 54 Mass 2 Firth Sterling Inc	Nothelfer Winding Labs Inc 106 Albermarle Ave Trenton 8 NJ
Belmont Smelting & Refining Works 330 Belmont Ave Brooklyn 7 NY 1-5-9	3113 Forbes St Pittsburgh 13 Pa 9-12 Five Star Co	NYT Electronics Inc 2979 N Ontario St Burbank Calif
Belock Instrument Corp 111-01 14 Ave College Point 56 NY 2-3	W Main St Plantsville Conn	Ortho Filter Corp
Bethlehem Steel Co Bethlehem Pa 12	Foote Mineral Co 18 W Chelten Ave Philadelphia 44 Pa 4-9	196 Albion Ave Paterson 2 NJ Osborne Electronic Corp
Bios Labs Inc	Freed Transformer Co 1718-36 Weirfield St Brooklyn 27 NY 2	712 SE Hawthorne Blvd Portland 14 Ore Penn-East Eng'g Corp
17 W 60 St New York 23 NY 4-5-9-12 Bittermann Electric Co	Garrett Corp AiResearch Mfg Co Div 9851 Sepulveda Blvd Los Angeles 45 Calif 2	Willow St Kutztown Pa Penn Precision Products Inc
Barlow St Canaan Conn 2 Blackburn Electronic Corp	Centronics Corn	501 Crescent Ave Reading Pa
55 W 7 St Wyoming Pa 2 Bogue Electric Mfg Co	2514 Broadway Long Island City N1 3 General Electric Co	Pentron Corp 777 S Tripp Ave Chicago 24 Ill
Iowa Ave Paterson 3 NJ 2-3	Box 237 Roosevelt Park Annex	Perkin Eng'g Corp 345 Kansas St El Segundo Calif
Bram Chemical Co Metals & Minerals Div	General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY 8	Permag Corp 214 Teaffe Pl Brooklyn 5 NY
820 65 Ave Philadelphia 26 Pa 1-5-9	I Widel of Denencerary o 141	

Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY		
	Waldorf Instrument Co Div F C Huyek & Sons	Eastern Precision Resistor Corp
Fower Supplies Inc	Park Ave Huntington Station NY 8 Wallingford Steel Co	675 Barbey St Brooklyn 7 NY 7-9-16
1005 Olive St Highland Ill	Valley St Wallingford Conn	Electronic Eng'g Co 362 W Bowery St Akron 7 Ohio 4
Power Transformer Co 91 Edison Pl Newark 5 NJ	Warner Electric Brake & Clutch Co	362 W Bowery St Akron 7 Ohio 4 Electro Impulse Lab Inc
Production Research Corp	Industrial Div	208 River St Red Bank NJ 13
Thornwood NY	Beloit Wisc Warren Mfg Co	Electro-Measurements Inc
Pulse Eng'g Inc	Newtown Rd Littleton Mass 2	7524 S W Macadam Ave
2657 Spring St Redwood City Calif	Welch Mfg Co W M	Portland 1 Ore 1-4-7-16 Elm Labs
Radio Condenser Co	1515 Sedgwick St Chicago 10 III 8	10 Washington Ave
Davis & Copewood Sts Camden 3 NJ Ransom Research	West Coast Research Corp	Hastings-on-Hudson NY 2-3-7-15
323 W 7 St San Pedro Calif	2371½ Westwood Blvd Los Angeles 64 Calif 2	Fairchild Guided Missiles Div
Raymond Eng'g Lab Inc	Los Angeles 64 Calif Westinghouse Electric Corp	Fairchild Engine & Airplane Corp
Smith St Middletown Conn Raytheon Mfg Co Commercial Equip Div	PO Box 868 Pittsburgh 30 Pa 1-2-8	Straight Path Wyandanch LI NY 7-9
100 River St Waltham 54 Mass	Wheeler Insulated Wire Co	Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd
Republic Steel Corp	150 E Aurora St Waterbury 20 Conn 2 Williams & Co C K	Clifton NJ 1-3-4-5-6-16
Republic Bldg Cleveland 1 Ohio 9-1 Rem-Cru Titanium Inc	640 N 13 St Easton Pa 4	Freed Transformer Co
Midland Pa	Yale & Towne Powdered Metal Prods Div	1718-36 Weirfield St Brooklyn 27 NY 1-3-5
Remington Rand Univac Div Sperry Bond	9335 W Belmont Ave Franklin Park Ill 8-9	F-R Machine Works Inc Electronic & X-Ray Div
COLD 319 4 Ave New York 10 NA		26-12 Borough Pl Woodside 77 NY 13
Richardson Labs Kenneth 254 Vincent Ave Lynbrook NY	37-MEASUREMENT & TEST	General Communication Co
Rich Electronics Inc		677 Beacon St Boston 15 Mass 13
212 NW 8 Ave Miami 36 Flo	EQUIPMENT—BRIDGES	General Electric Co Apparatus Sales Div
Riverside-Alloy Metal Div Porter Co H K	Bridges, capacitance 1	1 River Rd Schenectady 5 NY 12
1 Pavilion Ave Riverside NJ Ryerson & Son Joseph T	Bridges, conductivity 2	General Metal Products Co 1010 Centre St Easton Pa
16 & Doolemali Ct., Oliver of the	Bridges, electrical 3	General Radio Co
St Marys Carbon Co	Bridges, impedance 4	275 Massachusetts Ave
State St St Marys Pa	Bridges, inductance 5	Cambridge 39 Mass 1-2-3-4-5-6-7-8-14-16
Sangamo Electric Co	Bridges, megohm 6	Gertsch Products Inc
Springfield Ill Saratoga Industries	Bridges posistance	11846 Mississippi Ave Los Angeles 25 Calif 1-5-7-9-16
Congress & Ballston Ave	Bridges, resistance 7	Los Angeles 25 Calif 1-5-7-9-16 Goodyear Aircraft Corp
Saratoga Springe NV	Bridges, R-F	1210 Massillon Rd Akron 15 Ohio 7
Delisitive Research Instrument Com-	bilages, self balancing y	Gray Instrument Co
310 Main St New Rochelle NY Servo Corp of America		200 E Church Lane
2020 Jericho Turnnike New Hydo Dowle MV	Bridges, synchro	Philadelphia 44 Pa 7-11-12-16 Gulton Industries Inc
		212 Durham Ave Metuchen NJ
12500 Aviation Blvd Hawthorne Calif Servonics Inc	Bridges, thermistor 13	Hamilton Watch Co Allied Products Div
822 N Henry St Alexandria Va	Bridges, VHF 14	Columbia Ave Lancaster Pa 7
Shepard Labs Inc	Bridges, wein 15	Heath Co
480 Morris Ave Summit NJ Shrader Co F W	Bridges, wheatstone 16	305 Territorial Rd Benton Harbor Mich 4 Hewlett-Packard Co
11623 S Broadway Los Angeles et a va	Acton Laboratories	275 Page Mill Rd Palo Alto Calif 14
	oo main of Acton Mass 4	Hickok Electrical Instrument Co
PO Box 869 Port Chester NY Simplatrol Products Corp	Acro Electronics Co 1512 N Wells St Chicago 10 Ill 9-11	10514 Dupont Ave Cleveland 8 Ohio 1-3-5-6-7-8
24 Salisbury St Workerton E Management	Alford Mfg Co	Indikon Co
	299 Atlantic Ave Boston 10 Mass 8	76 Coolidge Hill Rd
2831 Post Oak Rd Houston 19 Texas Sperry Gyroscope Co Div Sperry Rand Corp	Aloe Scientific 5655 Kingsbury Blvd St Louis 12 Mo 16	Watertown 72 Mass 1-7-9-12
	Alpha Instrument Co	Industrial Control Co 805 Albin Ave Lindenhurst LI NY 1
Stackpole Carbon Co	43 Hempstead St New London Conn 1-5-7	Industrial Development Labs Inc
St Marys Pa Stearns Magnetic Products	Arnoux Corp 11924 W Washington Blvd	17 Pollock Ave
635 S 28 St Milwaukee Wise	Los Angeles 66 Calif 12	Jersey City 5 NJ 1-3-4-7-12-13 Industrial Instruments Inc
Steward Mig Co	Autron Eng'g Inc	89 Commerce Rd
D M Chattanooga Tenn	1254 W 6 St Los Angeles 17 Calif 12-13 Barker & Williamson Inc	Cedar Grove NJ 2-3-4-5-6-16
Stewart Warner Electronics Div 1300 N Kostner Ave Chicago 51 Ill	Canal & Beaver Sts Bristol Pa 4-8	Industrial Test Equipment Co 55 E 11 St
	Barnes Development Co	New York 3 NY 1-3-4-5-7-11
14 (06 Arminta St Van Nuus Calle	213 W Baltimore Pike Lansdowne Pa 7-9	Industrial Transformer Corp
Sylvania Electric Products Inc 1740 Broadway New York 19 NY	Bendix Aviation Corp Cincinnati Div 3130 Wasson Rd Cincinnati 8 Ohio	Gouldsboro Pa
Telemeter Magnetics Inc	B & F Instruments Inc	Johnson Aircraft Eng'g Co M J Box 10 Morristown Airport
2245 Pontius Ave Los Angeles C4 C via	4732 N Broad St Philadelphia 41 Pa 3	
		Morristown NJ 3-7-16
releiaulo Engle Corn	Bolton Labs Inc W Main St	Johnson Co E F
Shannon & Rarrett St Willes Daws Day	W Main St	Johnson Co E F Waseca Minn 10
Shannon & Barrett St Wilkes-Barre Pa 7-1 Tensor Electric Development Co 1873 Eastern Phys. Brooklyp 22 3434	W Main St Bolton Mass Boonton Electronics Corp	Johnson Co E F Waseca Minn 10 Julie Research Labs
Shannon & Barrett St Wilkes-Barre Pa 7-4 Tensor Electric Development Co 1873 Eastern Pkwy Brooklyn 33 NY Texas Instruments Inc.	W Main St Bolton Mass Boonton Electronics Corp 738 Speedwell Ave Morris Plains NJ 1	Johnson Co E F Waseca Minn 10 Julie Research Labs 556 W 168 St New York 32 NY 2-3-7-11-16 J-V-M Eng'g Co
Shannon & Barrett St Wilkes-Barre Pa 7-1 Tensor Electric Development Co 1873 Eastern Pkwy Brooklyn 33 NY Texas Instruments Inc 6000 Lemmon Ave Dellag & Texas	W Main St Bolton Mass 8-10-14-15-16 Boonton Electronics Corp 738 Speedwell Ave Morris Plains NJ 1 Boonton Radio Corp	Johnson Co E F Waseca Minn 10 Julie Research Labs 556 W 168 St New York 32 NY 2-3-7-11-16 J-V-M Eng'g Co 4633 S Lawndale Ave Lyons III 13
Shannon & Barrett St Wilkes-Barre Pa 7-1 Pensor Electric Development Co 1873 Eastern Pkwy Brooklyn 33 NY Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas Thomas & Skinner Inc	W Main St Bolton Mass Boonton Electronics Corp 738 Speedwell Ave Morris Plains NJ 1	Johnson Co E F Waseca Minn 10 Julie Research Labs 556 W 168 St New York 32 NY 2-3-7-11-16 J-V-M Eng'g Co 4633 S Lawndale Ave Lyons Ill King Electric Equipment Co
Shannon & Barrett St Wilkes-Barre Pa Tensor Electric Development Co 1873 Eastern Pkwy Brooklyn 33 NY Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas Thomas & Skinner Inc 1120 E 23 St Indianapolis 7 Ind Thompson Inc A J	W Main St Bolton Mass 8-10-14-15-16 Boonton Electronics Corp 738 Speedwell Ave Morris Plains NJ 1 Boonton Radio Corp Intervale Rd Boonton NJ 4-8 Bristol Co PO Box 1790 EITT	Johnson Co E F Waseca Minn 10 Julie Research Labs 556 W 168 St New York 32 NY 2-3-7-11-16 J-V-M Eng'g Co 4633 S Lawndale Ave Lyons III 13 King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio 16 Leeds & Northrup Co
Shannon & Barrett St Wilkes-Barre Pa 7-1  Tensor Electric Development Co 1873 Eastern Pkwy Brooklyn 33 NY  Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas  Thomas & Skinner Inc 1120 E 23 St Indianapolis 7 Ind Thompson Inc A J Rt 1 Box 812 Florisaget Me	W Main St Bolton Mass 8-10-14-15-16 Boonton Electronics Corp 738 Speedwell Ave Morris Plains NJ 1 Boonton Radio Corp Intervale Rd Boonton NJ 4-8 Bristol Co PO Box 1790 EITT Waterbury 20 Conn 1-2-3-4-5-6-7-9-12-16	Johnson Co E F  Waseca Minn 10  Julie Research Labs  556 W 168 St New York 32 NY 2-3-7-11-16  J-V-M Eng's Co  4633 S Lawndale Ave Lyons Ill 13  King Electric Equipment Co  9123 Inman Ave Cleveland 5 Ohio 16  Leeds & Northrup Co  4970 Stenton Ave 1-2-3-4-5-6-
Shannon & Barrett St Wilkes-Barre Pa 7-1  Tensor Electric Development Co 1873 Eastern Pkwy Brooklyn 33 NY  Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas  Thomas & Skinner Inc 1120 E 23 St Indianapolis 7 Ind  Thompson Inc A J  Rt 1 Box 812 Florissant Mo Topp Industries Inc	W Main St Bolton Mass 8-10-14-15-16 Boonton Electronics Corp 738 Speedwell Ave Morris Plains NJ 1 Boonton Radio Corp Intervale Rd Boonton NJ 4-8 Bristol Co PO Box 1790 EITT Waterbury 20 Conn 1-2-3-4-5-6-7-9-12-16 Bruno-New York Industries Corp	Johnson Co E F  Waseca Minn  Julie Research Labs  556 W 168 St New York 32 NY 2-3-7-11-16  J-V-M Eng'g Co  4633 S Lawndale Ave Lyons Ill  King Electric Equipment Co  9123 Inman Ave Cleveland 5 Ohio  Leeds & Northrup Co  4970 Stenton Ave  Philadelphia 44 Pa  7-9-12-15-16
Shannon & Barrett St Wilkes-Barre Pa Tensor Electric Development Co 1873 Eastern Pkwy Brooklyn 33 NY Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas Thomas & Skinner Inc 1120 E 23 St Indianapolis 7 Ind Thompson Inc A J Rt 1 Box 812 Florissant Mo Topp Industries Inc 5255 W 102 St Los Appeler 45 Calle	W Main St Bolton Mass 8-10-14-15-16 Boonton Electronics Corp 738 Speedwell Ave Morris Plains NJ 1 Boonton Radio Corp Intervale Rd Boonton NJ 4-8 Bristol Co PO Box 1790 EITT Waterbury 20 Conn 1-2-3-4-5-6-7-9-12-16	Johnson Co E F  Waseca Minn  Julie Research Labs  556 W 168 St New York 32 NY 2-3-7-11-16  J-V-M Eng'g Co  4633 S Lawndale Ave Lyons III  King Electric Equipment Co  9123 Inman Ave Cleveland 5 Ohio 16  Leeds & Northrup Co  4970 Stenton Ave  Philadelphia 44 Pa  7-9-12-15-16  Lee Electric & Mfg Co
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Shannon & Barrett St Wilkes-Barre Pa 7-1  Pensor Electric Development Co 1873 Eastern Pkwy Brooklyn 33 NY  Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas  Thomas & Skinner Inc 1120 E 23 St Indianapolis 7 Ind  Thompson Inc A J Rt 1 Box 812 Florissant Mo  Topp Industries Inc 5255 W 102 St Los Angeles 45 Calif  Torwico Electronics Inc 1096 Morris Ave Union NJ  Transformer Technicians Inc	W Main St Bolton Mass 8-10-14-15-16 Boonton Electronics Corp 738 Speedwell Ave Morris Plains NJ 1 Boonton Radio Corp Intervale Rd Boonton NJ 4-8 Bristol Co PO Box 1790 EITT Waterbury 20 Conn 1-2-3-4-5-6-7-9-12-16 Bruno-New York Industries Corp 460 W 34 St New York 1 NY 8-13 Budelman Radio Corp 375 Fairfield Ave Stamford Conn 8-14 Calif Technical Industries	Johnson Co E F Waseca Minn Julie Research Labs 556 W 168 St New York 32 NY 2-3-7-11-16 J-V-M Eng'g Co 4633 S Lawndale Ave Lyons III 13 King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio 16 Leeds & Northrup Co 4970 Stenton Ave 1-2-3-4-5-6- Philadelphia 44 Pa 7-9-12-15-16 Lee Electric & Mfg Co 2806 Clearwater St Los Angeles 39 Calif 2 Lehigh Valley Electronics Eng'g & Mfg Co 215 S 3 St Allentown Pa 16
Shannon & Barrett St Wilkes-Barre Pa Tensor Electric Development Co 1873 Eastern Pkwy Brooklyn 33 NY Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas Thomas & Skinner Inc 1120 E 23 St Indianapolis 7 Ind Thompson Inc A J Rt 1 Box 812 Florissant Mo Topp Industries Inc 5255 W 102 St Los Angeles 45 Calif Torwico Electronics Inc 1096 Morris Ave Union NJ Transformer Technicians Inc 2608 N Cicero Ave Chicago 39 Ill	W Main St Bolton Mass 8-10-14-15-16 Boonton Electronics Corp 738 Speedwell Ave Morris Plains NJ 1 Boonton Radio Corp Intervale Rd Boonton NJ 4-8 Bristol Co PO Box 1790 EITT Waterbury 20 Conn 1-2-3-4-5-6-7-9-12-16 Bruno-New York Industries Corp 460 W 34 St New York 1 NY 8-13 Budelman Radio Corp 375 Fairfield Ave Stamford Conn 8-14 Calif Technical Industries 1421 Old County Rd Belmont 10 Calif 10	Johnson Co E F Waseca Minn Julie Research Labs 556 W 168 St New York 32 NY 2-3-7-11-16 J-V-M Eng'g Co 4633 S Lawndale Ave Lyons Ill 13 King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio 16 Leeds & Northrup Co 4970 Stenton Ave Philadelphia 44 Pa 7-9-12-15-16 Lee Electric & Mfg Co 2806 Clearwater St Los Angeles 39 Calif 2 Lehigh Valley Electronics Eng'g & Mfg Co 215 S 3 St Allentown Pa Macleod & Hanopol
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Shannon & Barrett St Wilkes-Barre Pa Tensor Electric Development Co 1873 Eastern Pkwy Brooklyn 33 NY Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas Thomas & Skinner Inc 1120 E 23 St Indianapolis 7 Ind Thompson Inc A J Rt 1 Box 812 Florissant Mo Topp Industries Inc 5255 W 102 St Los Angeles 45 Calif Torwico Electronics Inc 1096 Morris Ave Union NJ Transformer Technicians Inc 2608 N Cicero Ave Chicago 39 Ill Transformers Inc 200 Stage Rd Vestal NY Transnoic Inc	W Main St Bolton Mass 8-10-14-15-16 Boonton Electronics Corp 738 Speedwell Ave Morris Plains NJ 1 Boonton Radio Corp Intervale Rd Boonton NJ 4-8 Bristol Co PO Box 1790 EITT Waterbury 20 Conn 1-2-3-4-5-6-7-9-12-16 Bruno-New York Industries Corp 460 W 34 St New York 1 NY 8-13 Budelman Radio Corp 375 Fairfield Ave Stamford Conn 8-14 Calif Technical Industries 1421 Old County Rd Belmont 10 Calif 10 Cambridge Instrument Co Grand Central Terminal New York 17 NY 1-2-3-4-5-7-16	Johnson Co E F Waseca Minn Julie Research Labs 556 W 168 St New York 32 NY 2-3-7-11-16 J-V-M Eng'g Co 4633 S Lawndale Ave Lyons Ill 13 King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio 16 Leeds & Northrup Co 4970 Stenton Ave Philadelphia 44 Pa 7-9-12-15-16 Lee Electric & Mfg Co 2806 Clearwater St Los Angeles 39 Calif 2 Lehigh Valley Electronics Eng'g & Mfg Co 215 S 3 St Allentown Pa Macleod & Hanopol
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		Electrical & Physical Instrument Corp
Non-Linear Systems Inc Del Mar Airport Del Mar Calif 3-7-9-12	Airborne Electronics Co 6813 Troost Ave N Hollywood Calif 12	42-19 27 St Long Island City I IVI
Performance Measurements Co	Airmec Ltd	Electrical Service Co 1271 Mission St San Francisco 3 Calif 2-8
15301 W McNichols Rd Detroit 35 Mich 9	High Wycombe Buckinghamshire England 2-3-4-5-8-9-10-11-13	Mantagnia Control Lorp
Phoenix Precision Instrument Co	Allyn Inc	1573 E Forest Ave Detroit 7 Mich Electronic Eng's Co of Calif
3803 N 5 St Philadelphia 40 Pa 9-12-16 Photobell Co	Welch Skaneteles Falls NY Aloe Scientific	180 S Alvarado Los Angeles 57 Calil
43 Vesey St New York 7 NY	5655 Kingsbury Blvd St Louis 12 Mo 5-12	Electronic Instrument Co 84 Withers St Brooklyn 11 NY 5
Polytechnic Research & Development Co	American Electronics Inc	Electronic Products Div Post Machinery
202 Tillary St Brooklyn 1 NY 13 Precise Development Corp	655 W Washington Blvd Los Angeles 15 Calif 5-12	140 Elliot St Beverly Mass Electronics Corp of America
2 Neil Ct Oceanside NY 1-6-7	American Instrument Co	1 Memorial Dr Cambridge 42 Mass 2
Pye Canada Ltd	8030 Georgia Ave Silver Spring Md 13 Anton Electronic Labs	Electro-Pulse Inc 11861 Teale St Culver City Calif 2-3-4-9-13
82 Northline Rd Toronto 16 Ontario Canada 1-2-3-4-5-6-7-8-16	1226 Flushing Ave Brooklyn 6 NY 5-8-10	Elgin National Watch Co
Radex Corp	Askania Regulator Co 240 E Ontario St Chicago 11 Ill 12-13	107 National St Elgin Ill
2076 Elston Ave Chicago 14 Ill 4 Radio City Products Co	Automatic Electric Co	El-Tronics Inc Penn Ave Mayfield Pa 5-9-10-12-13
Centre & Glendale Sts Easton Pa 7	1033 W Van Buren St Chicago 7 III 1-6	E-James Corn
Radio Corp of America	Autron Eng'g Inc 1254 W 6 St Los Angeles 17 Calif 1-2-8	161 E California St Pasadena Calif 1-6-7-9-11 Engineered Electronics Co
Commercial Electronic Products Camden 2 NJ 4	Autotron Inc	506 E 1 St Santa Ana Calif
Reiner Electronics Co	3629 N Vermilion St Danville Ill 8 Avionics Ltd	Exact Eng'g & Mfg Inc P O Box 668 Oceanside Calif
Centre & Glendale Sts Easton Pa 7 Reliance Mica Co	P O Box 200	Vaderal Equipment Co
341-39 St Brooklyn 32 NY 1	Niagara-on-the-Lake Ontario Canada 2-8	20 Drady St San Francisco 3 Calif
Research Instrument Co P O Box 9168 Montavilla Station	Baird-Atomic Inc 33 University Rd	Federal Telephone & Radio Co Div 17&T 100 Kingsland Rd Clifton NJ
Portland 16 Ore 1-3-4-6-7-16	Cambridge 38 Mass 2-5-6-7-8-9-10-12	First Electronics Corp
Rixon Electronics Inc	Barker Sales Co	117 Blue Hill Ave Boston 19 Mass 13 Fischer & Porter Co
2414 Reedie Dr Silver Spring Md 8-10 Scientific Glass Apparatus Co	996 Edgewater Ave Ridgefield NJ 1-3-7-9-1	478 Warminster Rd Hatboro l'a
100 Lakewood Terrace Bloomfield NJ 2	Burker & Williamson Inc	Forro Scientific Co 833 Lincoln St Evanston Ill 3-5-6-10-12
Shallcross Mfg Co Jackson & Pusey Aves	Canal & Beaver Sts Bristol Pa 7-10 Barkley & Dexter Laboratories	Foto-Video Labs Inc
Collingdale Pa 7-9-16	50 Frankfort St Fitchburg Mass 1-5-5	25 Amity St Little Falls NJ
Shasta Div Beckman Instruments Inc	Basic Controls Co	Franklin Électronics Inc Box 113 Bridgeport Pa 2-10-12
P O Box 296 Station A Richmond Calif 7 Simmonds Aerocessories Inc	1714 Westwood Blvd Los Angeles 24 Calif 2-8	Freed Transformer Co
105 White Plains Rd Tarrytown NY 1-9	Reckman / Berkeley Div Beckman	1718-36 Weirfield St Brooklyn 27 NY 2-6-8-9-11
Southwestern Industrial Electronics Co 2831 Post Oak Rd	Instruments Inc 2200 Wright Ave Richmond 3 Calif 2-3-1-5-8-9-10-11-12-13	General Electric Co X-Ray Dept
Houston 19 Texas 1-4-5	Beckman/Helipot Corp	4855 Electric Ave Milwaukee 1 Wis 9-10 Glass Eng'g Labs Inc
Special Instruments Lab Inc 312 W Vine Ave Knoxville 02 Tenn 6-7	Newport Beach Calif Beckman Instruments Inc Data & Control	601 O'Neill St Belmont Calif
Sperry Gyroscope Co Div Sperry Rand Corp		Goldak Co 1544 W Glenoaks Blvd Glendale 1 Calif 5-10-12
Great Neck NY 13	325 N Muller Ave Anaheim Calif 2-3-9-13 Bendix Aviation Corp Cincinnati Div	Hallamore Electronics Co
Sticht Co Herman H 27 Park Pl New York 7 NY 6-7-16	3130 Wasson Rd Cincinnati 8 Unio 2-3-5	8352 Brookhurst Ave Anaheim Calif
Sullivan Ltd H W	Berger Communications 109-01 72 Rd Forrest Hills LI NY	Hallicrafters Co 4401 W 5 Av Chicago 24 Ill 2-3-13
80 Shore Rd Port Washington NY 1-2-3-4-5-7-15-16	D I Electronics Borg-Warner Colly	Hamner Electronics Co
Telectro Industries Corp	3300 Newport Ave Santa Ana Cam	Princeton NJ Hansen Co Wm
35-18 37 St Long Island City 1 NY 6-8	Black Light Corp of America 5114 Walnut Grove Ave San Gabriel Calif 12	165 Silverbrook Ave Niles Mich
Tri-R Instruments	Roesch Mfg Co	Haydon Co A W 232 N Elm St Waterbury 20 Conn 13
24-15 44 Rd Long Island City 1 NY 12-13 Ultradyne Eng'g Labs	45 River St Dannury Com	Haydon Mfg Co
P O Box 3308 Albuquerque New Mex 3	10 1 St Pelham NY	245 E Elm St Torrington Conn Hewlett-Packard Co
United Audio Products Div	Bowmar Instrument Corp 2415 Pensylvania St Ft Wayne Ind 7-11	275 Page Mill Rd Palo Alto Calif 2-1-8-13
United Optical Mfg 202 E 19 St New York 3 NY 16	Dulaga Associates	Hoffman Electronics Corp 3761 S Hill St Los Angeles 7 Calif 5-10
United Control Corp	10 DeKalb St Norristown Pa 2-3-0-3-15	Holland Electronics
4540 Union Bay Pl Seattle 5 Wash 7-12-13-16	Bristol Co P O Box 1790 EITT 3-6-13	2133 Central Dr S East Meadow NY Hupp Electronics Co Div Hupp Corp
Waters Mfg Inc	Waterbury 20 Conn	743 Circle Ave Forest Park III 2-8
Boston Post Rd Wayland Mass 5	Buffalo Instrument Corp 1780 Elmwood Ave Buffalo 7 NY 1	Hupp Instru/mation Co
Weinschel Eng'g 10503 Metropolitan Ave Kensington Md 13	Burroughs Corp	2119 Sepulveda Blvd Los Angeles 25 Calif 2-3-4-13
Welch Mfg Co W M	6071 2 Ave Detroit 32 Mich	Hycon Mfg Co
1515 Sedgwick St Chicago 10 III 16 West Coast Research Corp	Burroughs Corp Electronic Tube Div	707 S Raymond Ave Pasadena Calif I-L-S Instrument Corp
2371½ Westwood Blvd	Box 1226 Plainted No.	4525 W 160 St Cleveland 11 Ohio 2-3-4-13
Los Angeles 64 Calif 12-13 Westinghouse Electric Corp	1000 Vine St Philadelphia ( F& "	Industrial Research Labs Div Aeronca Mfg Corp Hilltop &
P O Box 868 Pittsburgh 30 Pa 3	Canadian Aviation Electronics Ltd 6214 Cote de Liesse Rd	Frederick Rds Baltimore 28 Md 2-3-4-7-8-13
Williamson Development Co	c. Laurent Quebec Canada 9-12	Industrial Timer Corp 1407 McCarter Hwy Newark 4 NJ
WRL Electronics Inc	Chatham Electronics Div Gera Corp W Mt Pleasant Ave Livingston NJ 12	Instrumentation Associates
3415 W Broadway Council Bluffs Iowa 10	Cinema-Television Ltd	17 W 60 St New York 23 NY Instruments Inc
38-MEASUREMENT & TEST	Worsley Bridge Rd	122 N Madison St Tulsa Okla 5
EQUIPMENT—COUN-	Lower Sydenham London SE 26 England 8-10-11-13	Instruments Inc 122 N Madison St Tulsa Okla 5
<u> </u>	Computer-Measurements Corp	122 N Madison St Tulsa Okla 5 I Q Industries
TERS	5528 Vineland Ave N Hollywood Calif 2-3-4-9-13	1714 Westwood Blvd
Counters, electromagnetic 1	Consolidated Avionics Corp	Los Angeles 24 Calif 2-8  Jack Scientific Instrument Co Bill
Counters, electronic 2	Cramer Controls Corp	143 Cedros St Solana Beach Calif 1-2
Counters, events-per-unit time . 3 Counters, frequency 4	Centerbrook Conn	Jacobs Instrument Co 4718 Bethesda Ave Bethesda 14 Md 2-3-9-13
Counters, geiger	Cyclotron Specialties Co P O Box 1000 Moraga Calif	Kollsman Instrument Corp Standard
Counters, impulse	Devenuert Mfg Co	Coil Products Sub 80-08 45 Ave
Counters, mechanical 7	Doity Co S J	Laboratory For Electronics Inc
Counters, photoelectric 8	9 E Wesley St S Hackensack NJ	75 Pitts St Boston 14 Mass 2-3-13
Counters, preset 9	Dittmore-Freimuth Corp 2517 E Norwich St Milwaukee 7 Wis 7-11	Landis & Gyr 45 W 45 St New York 36 NY 1-6-9
Counters, radiation	Douglas Radio Labs	Landsverk Electrometer Co
Counters, revolution	176 Norfolk Ave Boston 19 Mass 5-10 Dudek & Co R C	550 W Garfield Ave Glendale 4 Calif 5-10 Larson Instrument Co
Counters, scintillation 12 Counters, time-measuring 13	407 N Maple Dr Beverly Hills Calif 5-10-12	24 Orchard St Tarrytown NY
Abrams Instrument Corp	Du Mont Labs Inc Allen B 760 Bloomfield Ave Clifton NJ 2-13	Lavoie Labs Inc
606 E Shiawassee St Lansing 1 Mich 1-6	Dunlap Electronics	Leighton Labs H W
Advanced Instruments Inc	764 9 St Des Moines 14 Iowa 2-4 Durant Mfg Co	York Rd & Sunset Lane Hatboro Pa
Advance Electronics Lab Inc	1950 N Buffum St	Lumenite Electronic Co 407 S Dearborn St Chicago 5 Ill 6-8
249 Terhune Ave Passaic NJ 2-4-13	Milwaukee 1 Wis 1-2-7-8-9-11 Eberline Instrument Div Reynolds Electrical	Machinery Electrification Inc
Advance Instrument Corp 1709 F St Belmar NJ	805 Early St Santa Fe New Mex 5-10-12	35 Hudson St Northboro Mass 2-8-9
70		

40 Leon St Boston 15 Mass 2	Stevens Mfg Co Geo 6022 N Rogers Ave Chicago 30 Ill 7	Freed Transformer Co 1718-36 Weirfield St Brooklyn 27 NY 1-2
590 Emory St. San Inc	Sticht Co Herman H	General Radio Co
magirul Inc	27 Park Pl New York 7 NY 11 Sylvania Electric Products Inc	275 Massachusetts Ave Cambridge 39 Mass 1-2-3
38 Virginia Pl Buffalo 2 NY 2-3-8-11 Measurement Eng'g Ltd	1740 Broadway New York 19 NY 2 Systron Corp	Gray Instrument Co 200 E Church Lane Philadelphia 44 Pa 3
232 John St Arnprior	2055 Concord Blvd	Industrial Instruments Inc
Menlo Research Lab	Concord Calif 2-3-4-6-8-9-10-11-12-13 Taffet Radio & TV Co	89 Commerce Rd Cedar Grove NJ 1-3 Heath Co
538 Phelan Ave San Jose Calif 5-10-12 Milgo Electronic Corp	27-05 Brooklyn-Queens Expressway	305 Territorial Rd
7601 N W 37 Ave Minmi 47 131	W Woodside 77 NY 10 Taller & Cooper	Benton Harbor Mich 1-3 Julie Research Labs
1433 Stinson Blyd Minneapolis Minn	75 Front St	556 W 168 St. New York 32 NY 3
Attack Mile Co	Brooklyn 1 NY 1-2-3-4-6-7-9-13 Tally Register Corp	Leeds & Northrup Co 4970 Stenton Ave Philadelphia 44 Pa 1-3
Z661 S Myrtle Ave Monrovia Calif National Paris	5300 14 Ave N W Seattle 7 Wash 6 Tarc Electronics Inc	Muirhead & Co Ltd Beckenham Kent England 1-2-3
National Radiac Inc 475 Washington St Newark 2 NJ 12	48 Urban Ave Westbury LI NY 12	Muirhead Instruments Inc
Traveo Ivavigation Commutes C	Technical Associates 140 W Providencia Ave	677 5 Ave New York 22 NY 1-2-3 New York Transformer Co
Nemeth Inc Philadelphia 45 Pa 9	Burbank Calif 5-10-12	· 3 Ave Alpha NJ 2
2223 S Carmelina Ave	Telechrome Mfg Corp 28 Ranick Dr Amityville LI NY 4	Ohmite Mfg Co 3601 Howard St Skokie III 3
Los Angeles 64 Calif Nevada Air Products Co	Telemeter Magnetics Inc _ 2245 Pontius Ave Los Angeles 64 Calif 1-2-6	Precision Capacitors Inc 150 W Cypress St Burbank Calif 1
Northeastern English Inc. 5-10	Teletronics Lab Inc	Pye Canada Ltd
20 S Bedford St Manchester NH 994	54 Kinkel St Westbury NY 13 Texas Instruments Inc	82 Northline Rd Toronto 16 Ontario Canada 1-2-3
553 S Market St Galian Ohio	6000 Lemmon Ave Dallas 9 Texas 13	Ram Electronics Inc
NKD Instrument Co	Tracerlab Inc 1601 Trapelo Rd Waltham 54 Mass 5-10-12	600 Industrial Ave Paramus NJ 1-2-3 Shallcross Mfg Co
6425 Etzel Ave St Louis 14 Mo 5-10-12 Nuclear-Chicago Corp	Tripl-T Electronics Co	Jackson & Pusey Aves Collingdale Pa 3 Shasta Div Beckman Instruments Inc
223 W Erie St Chicago 10 III 5-10-12 Nuclear Corp of America	Trott Electronics Inc	P O Box 296 Station A Richmond Calif 2
Empire State Ridg Nov. Vont. NV	412 Smith St Rochester 6 NY 2-6-8-10-13 Universal Atomics Corp	Southern Electronics Corp 239 W Orange Grove Ave Burbank Calif 1
P O Box 7024 Vanna City to 24	50 Bond St Westbury LI NY 5-8-10-12	Sullivan Ltd H W
ruclear-Electronics Corp	Uniwave Inc 2 Marine St Farmingdale NY 7-11	80 Shore Rd Port Washington NY 1-2-3 Torocoil Co
2632 W Cumberland St Philadelphia 32 Pa Nuclear More 2 4-5-8-10-12	U S Instrument Corp	2615 Bristol Rd Columbus 21 Ohio 2 United Transformer Corp
Nuclear Measurements Corp 2460 N Arlington Ave	P O Box 33E Charlottesville Va 6 Veeder Root Inc	150 Varick St New York 13 NY 2
Indianapolis 18 Ind	70 Sargeant St Hartford 2 Conn 1-6-7-9-11-13	Welch Mfg Co W M 1515 Sedgwick St Chicago 10 Ill 1-2-3
2950 Roberts Avo Philadel II as a	Victor Adding Machine Co	
ATUCIEOTIC COPD OF America	3900 N Rockwell St Chicago 18 III 2-9 Victoreen Instrument Co	40—MEASUREMENT & TEST
196 Degraw St Brooklyn 31 NY 5-10-12 Pantek Co	5806 Hough Ave Cleveland 3 Ohio 5-10-12 Volk Radiochemical Co	EQUIPMENT-
P O Box 212 El Segundo Calif Philips Electronics Inc	5412 N Clark St Chicago 40 Ill 5-10-12	GENERATORS
750 S Fulton Ave Mt Vernon NV 5 10 10	WacLine Inc 35 S St Clair St Dayton 2 Ohio 11	Generators, A-F signal 1
43 Vesey St New York 7 NV	Waldorf Instrument Co Div F C Huyck	Generators, color TV bar 2
Photocon Research Products 421 N Altadena Drive	& Sons Park Ave Huntington Station NY 2-7	Generators, color TV dot 3
Pasadena Calif	Walkirt Co 141 W Hazel St	Generators, color TV signal 4 Generators, F-M signal 5
P O Roy 539 Union NI Contact	Inglewood 3 Calif 2-3-4-6-9-11-13	Generators, harmonic 6
Precision Radiation Instruments Inc.	Waltham Watch Co 221 Crescent St Waltham 54 Mass 1-7-11-13	Generators, microwave signal 7
Los Angeles 16 Calif 5.19	West Coast Research Corp 2371½ Westwood Blvd	Generators, noise
Production Instrument Co 710 W Jackson Blvd	Los Angeles 64 Calif 2	Generators, picture signal 7 Generators, pulse 10
Chicago 6 III	Western Radiation Lab 1107 W 24 St Los Angeles 7 Calif 5-10	Generators, R-F signal 11
Production Research Corp Thornwood NY 2-3-4-6-13	Westinghouse Electric Corp	Generators, single-sideband 12
Natiation Counter Labs Inc	Wood Counter Lab N	Generators, square wave 13 Generators, sweep 14
Radio Corp of America	1525 E 53 St Chicago 15 III 5-10-12	Generators, sync
Camden 2 NJ Ram Meter Inc 5		Generators, sync. stretcher 16
1100 Hilton Rd Ferndale 20 Mich 6 Ransom Research	20 MEASUBEMENT C TEST	Generators, sync. studio TV 17
323 W 7 St San Pedro Calif 22 t co 12	39—MEASUREMENT & TEST	Generators, timing market 18 Generators, TV composite signal 19
Remington Rand Univac Div Sperry Rand Corp 315 4 Ave	EQUIPMENT—DECADE BOXES	Generators, TV signal 20
New York 10 NY Ripley Co		Generators, UHF
1 Factory St Middletown Conn	Decade boxes, capacitance 1 Decade boxes, inductance 2	Generators, ultrasonic 22 Generators, VHF 23
Rixon Electronics Inc	Decade boxes, resistance 3	Generators, video signal 24
Rockwell Engly Co	Aero Electronics Co	Generators, waveform 25
2133 E 45 St Indianapolis 5 Ind 8 Royson Eng'g Co	1512 N Wells St Chicago 10 Ill 2	Multipliers, frequency 26
103 N Penn St Hatboro Pa 1-7 Scantlin Electronics Inc	Barker & Williamson Inc Canal & Beaver Sts Bristol Pa 2	Acoustica Associates
11624 W Pico Blvd	Rookman / Paulsalan Din Dan	
Los Angeles 64 Calif 2-3-4-8-9-13 Scherr Co George	Beckman/Berkeley Div Beckman	Shore Rd Glenwood Landing LI NY 22 Adler Electronics Inc
200 Lafavette St. New York 12 NV 11	Instruments Inc 2200 Wright Ave Richmond 3 Calif	Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 1-11-12
Schirmer-National Alarm Co	Instruments Inc 2200 Wright Ave Richmond 3 Calif Cinema Eng'g Div Aerovox Corp	Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 1-11-12 Admiral Corp 3800 W Cortland St Chicago 47 Ill 3
20 Westside Ave Bergenfield NJ g	Instruments Inc 2200 Wright Ave Richmond 3 Calif Cinema Eng'g Div Aerovox Corp 1100 Chestnut St Burbank Calif Clarostat Mfg Co	Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 1-11-12 Admiral Corp 3800 W Cortland St Chicago 47 Ill 3 Aircraft Radio Corp
20 Westside Ave Bergenfield NJ 8 Sensory Inc Pleasantville Rd New Verner NJ 1 2 C C	Instruments Inc 2200 Wright Ave Richmond 3 Calif Cinema Eng'g Div Aerovox Corp 1100 Chestnut St Burbank Calif Clarostat Mfg Co Washington St Dover NH Consolidated Resistance Co of America	Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 1-11-12 Admiral Corp 3800 W Cortland St Chicago 47 Ill Aircraft Radio Corp Boonton NJ 7 Airmec Ltd
Sensory Inc Pleasantville Rd New Vernon NJ 1-2-6-8-9 Servo Corp of America	Instruments Inc 2200 Wright Ave Richmond 3 Calif Cinema Eng'g Div Aerovox Corp 1100 Chestnut St Burbank Calif Clarostat Mfg Co Washington St Dover NH Consolidated Resistance Co of America 44 Propect St Yonkers 1 NY Cornell-Dubilier Electric Corp	Adler Electronics Inc  1 LeFevre Lane New Rochelle NY  Admiral Corp  3800 W Cortland St Chicago 47 Ill  Aircraft Radio Corp  Boonton NJ  7  Airmec Ltd  High Wycombe  Buckinghamshire England  1-11
sensory Inc Pleasantville Rd New Vernon NJ 1-2-6-8-9 Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY 2-10	Instruments Inc 2200 Wright Ave Richmond 3 Calif Cinema Eng'g Div Aerovox Corp 1100 Chestnut St Burbank Calif Clarostat Mfg Co Washington St Dover NH Consolidated Resistance Co of America 44 Propect St Yonkers 1 NY Cornell-Dubilier Electric Corp 333 Hamilton Blvd S Plainfield NJ 1-3	Adler Electronics Inc  1 LeFevre Lane New Rochelle NY  1-11-12  Admiral Corp  3800 W Cortland St Chicago 47 Ill  Aircraft Radio Corp  Boonton NJ  7  Airmec Ltd  High Wycombe  Buckinghamshire England  Alcar Instruments Inc
Sensory Inc Pleasantville Rd New Vernon NJ 1-2-6-8-9 Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY 2-10 Servo-Recording Instruments Inc.	Instruments Inc 2200 Wright Ave Richmond 3 Calif Cinema Eng'g Div Aerovox Corp 1100 Chestnut St Burbank Calif Clarostat Mfg Co Washington St Dover NH Consolidated Resistance Co of America 44 Propect St Yonkers 1 NY Cornell-Dubilier Electric Corp 333 Hamilton Blvd S Plainfield NJ Daven Co Route 10 Livingston NJ	Adler Electronics Inc  1 LeFevre Lane New Rochelle NY Admiral Corp 3800 W Cortland St Chicago 47 Ill Aircraft Radio Corp Boonton NJ 7 Airmec Ltd High Wycombe Buckinghamshire England 1-11 Alcar Instruments Inc 17 Industrial Ave Little Ferry NJ Alpha Instrument Co
Sensory Inc Pleasantville Rd New Vernon NJ 1-2-6-8-9 Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz 3-5-10-12 Skiatron Electronics & TV Corp	Instruments Inc 2200 Wright Ave Richmond 3 Calif Cinema Eng'g Div Aerovox Corp 1100 Chestnut St Burbank Calif Clarostat Mfg Co Washington St Dover NH Consolidated Resistance Co of America 44 Propect St Yonkers 1 NY Cornell-Dubilier Electric Corp 333 Hamilton Blvd S Plainfield NJ Daven Co Route 10 Livingston NJ Eastern Precision Resistor Corp	Adler Electronics Inc  1 LeFevre Lane New Rochelle NY Admiral Corp 3800 W Cortland St Chicago 47 Ill Aircraft Radio Corp Boonton NJ 7 Airmec Ltd High Wycombe Buckinghamshire England 1-11 Alcar Instruments Inc 17 Industrial Ave Little Ferry NJ Alpha Instrument Co 43 Hempstead St New London Conn Altec Lansing Corp
Sensory Inc Pleasantville Rd New Vernon NJ 1-2-6-8-9 Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz 3-5-10-12 Skiatron Electronics & TV Corp 180 Varick St	Instruments Inc 2200 Wright Ave Richmond 3 Calif Cinema Eng'g Div Aerovox Corp 1100 Chestnut St Burbank Calif Clarostat Mfg Co Washington St Dover NH Consolidated Resistance Co of America 44 Propect St Yonkers 1 NY Cornell-Dubilier Electric Corp 333 Hamilton Blvd S Plainfield NJ Daven Co Route 10 Livingston NJ Eastern Precision Resistor Corp 675 Barbey St Brooklyn 7 NY 3 Electronic Measurements Co	Adler Electronics Inc  1 LeFevre Lane New Rochelle NY Admiral Corp 3800 W Cortland St Chicago 47 Ill Aircraft Radio Corp Boonton NJ 7 Airmec Ltd High Wycombe Buckinghamshire England Alcar Instruments Inc 17 Industrial Ave Little Ferry NJ Alpha Instrument Co 43 Hempstead St New London Conn Altec Lansing Corp 1515 S Manchester Ave Anaheim Calif 8 Alto Scientific Co
Pleasantville Rd New Vernon NJ 1-2-6-8-9 Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz 3-5-10-12 Skiatron Electronics & TV Corp 180 Varick St New York 14 NY 2-3-4-6-9-13 Southwest Products Inc	Instruments Inc 2200 Wright Ave Richmond 3 Calif Cinema Eng'g Div Aerovox Corp 1100 Chestnut St Burbank Calif Clarostat Mfg Co Washington St Dover NH Consolidated Resistance Co of America 44 Propect St Yonkers 1 NY Cornell-Dubilier Electric Corp 333 Hamilton Blvd S Plainfield NJ Daven Co Route 10 Livingston NJ Eastern Precision Resistor Corp 675 Barbey St Brooklyn 7 NY Electronic Measurements Co Lewis St & Maple Ave Eatontown NJ Endevoc Corp	Adler Electronics Inc  1 LeFevre Lane New Rochelle NY Admiral Corp 3800 W Cortland St Chicago 47 Ill Aircraft Radio Corp Boonton NJ 7 Airmec Ltd High Wycombe Buckinghamshire England 1-11 Alcar Instruments Inc 17 Industrial Ave Little Ferry NJ 22 Alpha Instrument Co 43 Hempstead St New London Conn 1-5-11 Altec Lansing Corp 1515 S Manchester Ave Anaheim Calif Alto Scientific Co 855 Commercial St Palo Alto Calif 10
Pleasantville Rd New Vernon NJ 1-2-6-8-9 Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz 3-5-10-12 Skiatron Electronics & TV Corp 180 Varick St New York 14 NY Southwest Products Inc Alamo Downs Rt 4 San Antonio Texas 8 Spencer Mfg Co	Instruments Inc 2200 Wright Ave Richmond 3 Calif Cinema Eng'g Div Aerovox Corp 1100 Chestnut St Burbank Calif Clarostat Mfg Co Washington St Dover NH Consolidated Resistance Co of America 44 Propect St Yonkers 1 NY Cornell-Dubilier Electric Corp 333 Hamilton Blvd S Plainfield NJ Daven Co Route 10 Livingston NJ Eastern Precision Resistor Corp 675 Barbey St Brooklyn 7 NY Electronic Measurements Co Lewis St & Maple Ave Eatontown NJ Endeveo Corp 161 E California St Pasadens Calif	Adler Electronics Inc  1 LeFevre Lane New Rochelle NY Admiral Corp 3800 W Cortland St Chicago 47 Ill Aircraft Radio Corp Boonton NJ 7 Airmec Ltd High Wycombe Buckinghamshire England Alcar Instruments Inc 17 Industrial Ave Little Ferry NJ Alpha Instrument Co 43 Hempstead St New London Conn Altec Lansing Corp 1515 S Manchester Ave Anaheim Calif Alto Scientific Co 855 Commercial St Palo Alto Calif Amerac Inc 116 Topsfield Rd Wenham Mass 7-26
Pleasantville Rd New Vernon NJ 1-2-6-8-9 Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY 2-10 Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz 3-5-10-12 Skiatron Electronics & TV Corp 180 Varick St New York 14 NY 2-3-4-6-9-13 Southwest Products Inc Alamo Downs Rt 4 San Antonio Texas Spencer Mfg Co 3253 N Cicero Ave Chicago 41 Ill 1-6-9 Standard Electric Time Co	Instruments Inc 2200 Wright Ave Richmond 3 Calif Cinema Eng'g Div Aerovox Corp 1100 Chestnut St Burbank Calif Clarostat Mfg Co Washington St Dover NH Consolidated Resistance Co of America 44 Propect St Yonkers I NY Cornell-Dubilier Electric Corp 333 Hamilton Blvd S Plainfield NJ Daven Co Route 10 Livingston NJ Eastern Precision Resistor Corp 675 Barbey St Brooklyn 7 NY Electronic Measurements Co Lewis St & Maple Ave Eatontown NJ Endevco Corp 161 E California St Pasadena Calif Epco Electronics Inc 140 Liberty St New York 6 NY	Adler Electronics Inc  1 LeFevre Lane New Rochelle NY Admiral Corp 3800 W Cortland St Chicago 47 Ill Aircraft Radio Corp Boonton NJ 7 Airmec Ltd High Wycombe Buckinghamshire England Alcar Instruments Inc 17 Industrial Ave Little Ferry NJ 22 Alpha Instrument Co 43 Hempstead St New London Conn 1-5-11 Altec Lansing Corp 1515 S Manchester Ave Anaheim Calif 8 Alto Scientific Co 855 Commercial St Palo Alto Calif 10 Amerac Inc 116 Topsfield Rd Wenham Mass American Electronic Laboratories 121 N 7 St Philadelphia 6 Pa 10-18-14-18
Pleasantville Rd New Vernon NJ 1-2-6-8-9 Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz 3-5-10-12 Skiatron Electronics & TV Corp 180 Varick St New York 14 NY Southwest Products Inc Alamo Downs Rt 4 San Antonio Texas Spencer Mfg Co 3253 N Cicero Ave Chicago 41 Ill 1-6-9 Standard Electric Time Co 99 Logan St Springfield 2 Mass 2-1-11 12	Instruments Inc 2200 Wright Ave Richmond 3 Calif Cinema Eng'g Div Aerovox Corp 1100 Chestnut St Burbank Calif Clarostat Mfg Co Washington St Dover NH Consolidated Resistance Co of America 44 Propect St Yonkers I NY Cornell-Dubilier Electric Corp 333 Hamilton Blvd S Plainfield NJ Daven Co Route 10 Livingston NJ Eastern Precision Resistor Corp 675 Barbey St Brooklyn 7 NY Electronic Measurements Co Lewis St & Maple Ave Eatontown NJ Endeveo Corp 161 E California St Pasadena Calif Epoc Electronics Inc 140 Liberty St New York 6 NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ	Adler Electronics Inc  1 LeFevre Lane New Rochelle NY 1-11-12 Admiral Corp 3800 W Cortland St Chicago 47 Ill 3 Aircraft Radio Corp Boonton NJ 7 Airmec Ltd High Wycombe Buckinghamshire England Alcar Instruments Inc 17 Industrial Ave Little Ferry NJ 22 Alpha Instrument Co 43 Hempstead St New London Conn 1-5-11 Altec Lansing Corp 1515 S Manchester Ave Anaheim Calif 8 Alto Scientific Co 855 Commercial St Palo Alto Calif Amerac Inc 116 Topsfield Rd Wenham Mass 7-26 American Electronic Laboratories 121 N 7 St Philadelphia 6 Pa 10-13-14-18 American Research & Mfg Corp
Pleasantville Rd New Vernon NJ 1-2-6-8-9 Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY 2-10 Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz 3-5-10-12 Skiatron Electronics & TV Corp 180 Varick St New York 14 NY 2-3-4-6-9-13 Southwest Products Inc Alamo Downs Rt 4 San Antonio Texas Spencer Mfg Co 3253 N Cicero Ave Chicago 41 Ill 1-6-9 Standard Electric Time Co	Instruments Inc 2200 Wright Ave Richmond 3 Calif Cinema Eng'g Div Aerovox Corp 1100 Chestnut St Burbank Calif Clarostat Mfg Co Washington St Dover NH Consolidated Resistance Co of America 44 Propect St Yonkers 1 NY Cornell-Dubilier Electric Corp 333 Hamilton Blvd S Plainfield NJ Daven Co Route 10 Livingston NJ Eastern Precision Resistor Corp 675 Barbey St Brooklyn 7 NY Electronic Measurements Co Lewis St & Maple Ave Eatontown NJ Endevco Corp 161 E California St Pasadena Calif Epco Electronics Inc 140 Liberty St New York 6 NY Federal Telephone & Radio Co Div IT&T	Adler Electronics Inc  1 LeFevre Lane New Rochelle NY Admiral Corp 3800 W Cortland St Chicago 47 Ill Aircraft Radio Corp Boonton NJ 7 Airmec Ltd High Wycombe Buckinghamshire England Alcar Instruments Inc 17 Industrial Ave Little Ferry NJ 22 Alpha Instrument Co 43 Hempstead St New London Conn 1-5-11 Altec Lansing Corp 1515 S Manchester Ave Anaheim Calif 8 Alto Scientific Co 855 Commercial St Palo Alto Calif 10 Amerac Inc 116 Topsfield Rd Wenham Mass American Electronic Laboratories 121 N 7 St Philadelphia 6 Pa 10-18-14-18

American Time Products Inc	Electronic Tube Corp	5725 Kearny Villa Rd
580 5 Ave New York 36 NY 13	1200 E Mermaid Lane	San Diego 12 Calif
Antlab Inc	Philadelphia 18 Pa 14	Laboratory For Electronics Inc
4950 N High St Columbus 14 Ohio 1-13	Electro-Pulse Inc 11861 Teale St Culver City Calif 10	75 Pitts St Boston 14 Mass
Anton Electronic Labs 1226 Flushing Ave Brooklyn 6 NY 7	Engineering Associates	Lambda-Pacific Eng'g Inc 14725 Arminta St Van Nuys Calif 7
Applied Research Inc	434 Patterson Rd Dayton 9 Ohio 5-7-21-23	
163-07 Depot Rd Flushing 58 NY 14-26	Erco Radio Labs Inc	2133 Adams Ave San Leandro Calif 15
A R F Products Inc 7627 Lake St River Forest III 5-10-13	637 Stewart Ave Garden City NY 12 Ernst & Affiliates W Arthur	Lavoie Labs Inc
1021 Dare St Hitel 1 Steps	825 Hayes Ave Racine Wis 5	Matawan-Freehold Rd
Barker & Williamson Inc Canal & Beaver Sts Bristol Pa 1-12-13-26	Espey Mfg Co	Morganville NJ Lepel High Frequency Labs
Canal & Beaver Sts Bristol Pa 1-12-13-26 Beckman/Berkeley Div Beckman	Congress & Ballston Ave	54-18 37 Ave Woodside 77 NY
Instruments Inc 2200 Wright Ave	Saratoga Springs NY 5	McDowell Electronics Inc
Richmond 3 Calif 10	Federal Mfg & Eng'g Corp	105 Forrest St Metuchen NJ
Bekey Electric Co 1327 S Main St Los Angeles 15 Calif 15	1055 Stewart Ave Garden City NY 11-21-23	McKenna Laboratories Monica Calif 22
1327 S Main St Los Angeles 15 Calif 15 Bendix Aviation Corp	Federal Telephone & Radio Co	2503 Main St Santa Monica Calif 22 Majestic Int'l Corp
1104 Fisher Bldg Detroit 2 Mich 8-22	Div IT&T 100 Kingsland Rd	70 Washington St.
B J Electronics Borg-Warner Corp	Clifton NJ 7-11-22-26	Brooklyn 1 NY 5-13-14-20-24-25
3300 Newport Ave	Fisher Eng'g Inc P () Box 327 Huntington Ind 10	Manson Laboratories Inc
Santa Ana Calif 5-10-11-14-21-23-26 Berkshire Labs	Foto-Video Labs Inc	Manufacturors Engig & Equip Corp
586 Bank Village Greenville NH 10-25	25 Amity St 2-3-4-9-10-13-15-16	York Rd & Sunset Lane Hatboro Pa 14
B & K Mfg Co	Little Falls NJ 17-18-19-20-24-25	Margani Instruments Ltd
3726 N Southport Chicago Ill 2-3-4	F-R Machine Works Inc Electronic & X-Ray Div 26-12 Borough Pl	
Bogart Mfg Corp 315 Seigel St Brooklyn 6 NY 7	Woodside 77 NY 6-7-26	Massa Laboratories Inc 5 Fottler Rd Hingham Mass
Bogue Electric Mfg Co	Franklin Electronics Inc	Maxson Instruments Div W L Maxson Corp
Iowa Ave Paterson 3 NJ 22	Box 113 Bridgeport Pa 10	47-37 Austell Pl
Bolton Labs Inc	Freed Transformer Co	Long Island City 1 NY
W Main St Bolton Mass 1-5-7-11 Boonton Radio Corp	1718-30 Welffield Bt Drooms	Measurement Eng'g Ltd 232 John St Arnprior Ontario Can 1-8-13
Intervale Rd Boonton NJ 5-11-14	General Communication Co 677 Beacon St Boston 15 Mass 7-10-11-24	Managements Corn
Branson Instruments Inc	General Electric Co Apparatus	Boonton NJ 1-5-10-13-20-21
37 Brown House Rd Stamford Conn 22	Sales Div 1 River Rd	Metronix Inc 1-6-11
Brubaker Electronics Inc 3652 Eastham Dr Culver City Calif 10-18	Schenectady 5 NY 22	Mill Lane Wateriord Com.
3652 Eastham Dr Culver City Calif 10-18 Bruno-New York Industries Corp	General Precision Lab Inc	Microlab Okner Pkwy Livingston NJ 6-26
460 W 34 St New York 1 NY 7-11-21	63 Bedford Rd Pleasantville NY 2-3-4-7-15-19-20	Minn-Honeywell Regulator Co
Burr-Brown Research Corp	Coneral Radio Co	Ordnance Div Hopkins Minn
Route 4 Box 139 Tucson Ariz 13	275 Massachusetts Ave 1-7-8-10-11-13	Moloney Electric Co 5390 Bircher Blvd St Louis 20 Mo 10
Burroughs Corp 6071 2 Ave Detroit 32 Mich 10-13	Cambridge 39 Mass 14-21-22-23	Muirhead Instruments Inc
Burroughs Corp Electronic Instruments Div	General Ultrasonics Co 67 Mulberry St Hartord 3 Conn 22	677 5 Ave New York 22 NY
1209 Vine St Philadelphia 7 Pa 10	GPS Instrument Co	Mayoo Navigation Computer Corp
Canoga Corp	811 Boylston St Boston 16 Mass 8	1621 Snyder Ave Philadelphia 45 Pa 10-13
5955 Sepulveda Blvd Van Nuys Calif 8-14	Cond PaTronics Inc	Nevada Air Products Co P O Box 2472 Reno Nev 22
Cascade Research Corp 53 Victory Lane Los Gatos Calif 7	17360 Hayes Rd Grand Haven Mich 22	N. I.F. Corp.
53 Victory Lane Los Gatos Calif 7 Cavitron Electron Oscillator Co	Grem Eng'g Co	345 Carnegie Ave Kenilworth NJ 10
Div Short Wave Plastic Forming	488 1 St Brooklyn 15 NY Guild Electronics Inc	Norrman Laboratories Ernst
355 N Newport Blvd Newport Beach Calif 22	388 Broadway New York 13 NY 21	Williams Day Wis
Central Electronics Inc	Culton Industries Inc	Northeast Electronics Corp P O Box 425 Concord NH 1
1247 W Belmont Ave Chicago 13 Ill 12 CG Electronics Corp	212 Durnam Ave Metachen 210	Noutheast Scientific Corp
305 Dallas St	Hall Sonic Eng'g Co	617 Concord Ave Cambridge 38 Mass
N E Albuquerque New Mex 7-21-33	2402 2 51 1 610 111	Nuclear-Electronics Corp
Cinema-Television Ltd	Hamner Electronics Co Princeton NJ 10-13-25	3632 W Cumberland St Philadelphia 32 Pa 10-11-13
Worsley Bridge Rd	Hancock Electronics Corp	Page Floringal Instruments Co
Lower Sydenham 2-3-4-10- London SE 26 England 13-15-17	2553 Middlefield Rd	70-31 84 St Glendale 27 LI NY 1-2-3-11-13-14
Clegg Labs Div Clegg Inc	Redwood City Calif 4-15-19-20-24	Design Transducer Carn
Ridgedale Ave Morristown NJ 7-10-12-21	Harris Transducer Corp Woodbury Conn 22	11836 W Pico Blyd Los Angeles 64 Calif 1-14 Packard Bell Electronics Corp
Clough-Brengle Co	Harvey-Wells Electronics Inc	12333 W Olympic Blvd
6014 Broadway Chicago 40 III 1-7-11-14-21-23	North St Southbridge Mass 7	Los Angeles 64 Callif
Chicago 40 III 1-7-11-14-21-23 Collins Radio Co	Heath Co	Panoramic Radio Products Inc
855 35 St N E Cedar Rapids Iowa 1-23	305 Territorial Rd	10 S 2 St Mt Vernon NY Philamon Labs Inc
Communication Measurements Lab	Benton narrot men	90 Hopper St. Westbury LI NY 13
350 Leland Ave Plainfield NJ 22	275 Page Mill Rd 1-5-7-10-11-13-14	Philbrick Researches Inc George A
Community Eng'g Corp Box 824 State College Pa 14-23	Pale Alto Calif 18-21-20-24-20	230 Congress St Boston 10 Mass
Conn Ltd C G	vr. 1 1 Electrical Instrument CO	Philco Corp Accessory Div
1101 E Beardsley Ave Elkhart Ind 1	10514 Dupont Ave 1-2-3-4-5-6-8-9-10-11-13 Cleveland 8 Ohio 14-15-19-21-22-23-24-25	"A" & Allegheny Ave Philadelphia 34 Pa 2-3-11-14
Conn Telephone & Electric Corp	Cleveland 8 Ohio 14-15-19-21-22-23-24-25 Hill Electronic Eng'g & Mfg Co	Phileo Corp Govt & Industrial Div
70 Brittania St Meriden Conn 5-21	NI Wingertown Pa	4700 Wissahickon Ave
Crosby Labs Inc Box 233 Robbins Lane Hicksville NY 12	Holtzer Cabot Div Nat'l Pneumatic Co	Philadelphia 44 Pa 2-3-4-7-19
Dallons Labs	125 Amory St Roston 19 Mass	Polarad Electronics Corp 43-20 34 St Long Island City 1 NY 2-3-4-7-1
5066 Santa Monica Blvd	Hycon Mfg Co 707 S Raymond Ave Pasadena Calif 2-3-5-8	Polytechnic Research & Development Co
Los Angeles 29 Calif 22	Ideal Electric & Mfg Co	202 Tillary St Brooklyn 1 NY 6-7-8-2
Dalmotor Co Div Dalmo Victor Co	and E 1 St Manafield Ohio 15	Potter Instrument Co
Div Textron Inc 1375 Clay St Santa Clara Calif 25	1-Just in Personch Labs Div Aeronca	115 Cuttermill Rd Great Neck NY 10-1 Power Supplies Inc
DeMornay-Bonardi Corp	Mfg Corp Hilltop & Frederick Rus	1005 Olive St Highland III 2
780 S Arroyo Pky Pasadena Calif 6-7-8-26	Baltimore 28 Md Industrial Test Equipment Co	Progress Davelonment Corp
Diehl Mfg Co	55 E 11 St New York 3 NY	2 Neil Ct Oceanside NY 1-2-3-4-5-11-13-14-2
Finderne Ave Somerville NJ 14 Donner Scientific Co	Intercontinental Dynamics Corp	Precision Apparatus Co 70-31 84 St Glendale 27 LI NY 1-2-3-11-13-1
888 Galindo St Concord Calif	170 Coolinge Ave Bugiewood 110	Production Research Corp
Douglas Microwave Co	Jackson Electrical Instrument Co 18 S Patterson Blvd	Thornwood NY 6-7-11-1
252 E 3 St Mt Vernon NY 26	Dayton 2 Ohio 1-2-4-14-20	Pulse Techniques Inc
Dunlap Electronics 764 9 St. Des Moines 14 Iowa 10-13-18	Jacobs Instrument Co	1411 Palisade Ave W Engelwood NJ Pye Canada Ltd
764 9 St Des Moines 14 Iowa 10-13-18 Dyna-Empire Inc	4718 Bethesda Ave Bethesda 14 Md 10	82 Northline Rd 1-2-3-4-9-15-1
1075 Stewart Ave Garden City LI NY 8	Jerrold Electronics Corp 23 & Chestnut Sts	Toronto 16 Ontario Canada 17-19-20-22-2
Edgerton, Germeshausen & Grier	Philadelphia 3 Pa 7-11-14-20-21-23	Pye Telecommunications Ltd
160 Brookline Ave Boston 15 Mass 18	Johnson Co E F	Newmarket Rd Cambridge England 1-5-10-23-2
Electric Specialty Co	Waseca Minn 11-12	Radar Engineers
211 South St Stamford 1 Conn 15	J-V-M Eng'g Co 4633 S Lawndale Ave Lyons III 6-7-21-26	401 E 45 St Seattle 5 Wash
Electrical & Physical Instrument Corp 42-19 27 St Long Island City 1 NY 10	Kato Eng'g Co	Radiation Counter Labs Inc
Electronic Associates Inc	1415 1 Ave Mankato Minn 1-15	5121 W Grove St Skokie III
Long Branch NJ 8	Katolight Corp	Radiation Inc P O Box 37 Melbourne Fla 7-3
Electronic Instrument Co	1415 1 Ave Mankato Minn 1-15	Radiation Instrument Co
84 Withers St Brooklyn 11 NY 1-11-14 Electronic Measurements Corp	Kay Electric Co 14 Maple Ave 2-3-4-5-7-8-9-10-11	P O Box 733 Silver Spring Md
625 Broadway New York 12 NY 1-3-11-20	Pine Brook NJ 14-19-20-21-22-23-24	Radio City Products Co
Electronic Research Associates	Kinevox-Hallen Div Electromation Co	Centre & Glendale Sts
67 E Centre St Nutley 10 NJ 8	1646 18 St Santa Monica Calif 18	Easton Pa 2-3-4-11-14-20-21-4

Pudia Co.		
Radio Corp of America Commercial Electronic Products	Walworth Co 60 E 42 St New York 17 NY 7-11	Hancock Electronics Corp
Camden 2 NJ 1-2-3-7-10-11-14-15-19-20-23 Research Electronics Lab	Wang Labs Inc	2553 Middlefield Rd Redwood City Calif 8-9 Hewlett-Packard Co
Roslyn Pa	37 Hurley St Cambridge 41 Mass 10-25 Waveforms Inc	275 Page Mill Rd Palo Alto Calif 3-4 Industrial Test Equipment Co
Rese Eng'g Inc 731 Arch St Philadelphia 6 Pa 10	333 6 Ave New York 14 NY 1-22 Waveline Inc	55 E 11 St New York 3 NY 5
P. O. Boy Cf. Community	Passaic Ave Caldwell NJ 7	Industrial TV Inc 369 Lexington Ave Clifton NJ 8-9
Rixon Electronics Inc	Weinschel Eng'g 10503 Metropolitan Ave	Kintel (Kay Lab) 5725 Kearny Villa Rd
2414 Reedie Dr Silver Spring Md 8-10-13-18-26	Kensington Md 1-7-10-13 Wells-Gardner & Co	San Diego 12 Calif 9-10
AS Electronics Corp	2701 N Kildare Ave Chicago 39 III 22	Lampkin Labs Inc R F D 1 Bradenton Fla 3-4
Rutherford Electronics Co	Westinghouse Electric Corp P O Box 868 Pittsburgh 30 Pa 15	Langevin Mfg Corp 47-37 Austell PI Long Island City 1 NY 2
3707 S Robertson Blvd Culver City Calif 10-18	White Electron Devices Inc Roger	Litton Industries Electronic Display Lab
Saratoga Industries	Wickes Eng'g & Construction Co	1476 66 St Emeryville Calif Magnecord Div Midwestern Instruments Inc
Congress & Ballston Ave Saratoga Springs NY	12 St & Ferry Ave Camden 4 N.J 2-3 Winston Electronics Inc	1101 S. Kilbourn Ave Chicago 24 Ill 2 Majestic Int'l Corp
Servo Corp of America 2020 Jericho Turnpike	4312 Main St Philadelphia 27 Pa 2-3 Wollensak Optical Co	79 Washington St Brooklyn 1 NY
New Hyde Park NY 13-25	850 Hudson Ave Rochester 22 NY 10	Maryland Electronic Mfg Corp 5009 Calvert Rd College Park Md 1-5-11
Servomex Controls Ltd 80 Shore Rd	Woodwelding Inc 355 N Newport Blvd Newport Beach Calif 22	37-01 31 St Long Island City 1 NY
Port Washington NY 10-13-14-25 Scientific Electric		North Electric Co
105 Monroe St Garfield N.J 92	41—MEASUREMENT & TEST	Northern Radio Co
Scott Inc H H 385 Putnam Ave Cambridge 39 Mass 8	EQUIPMENT-	143 W 22 St New York 11 NY Panoramic Radio Products Inc
Service Instruments Corp	MONITORS	10 S 2 St Mt Vernon NY Polarad Electronics Corp
Simpson Electric Co	Monitors, antennos phose 1	43-20 34 St Long Island City 1 NY 8-9-12
5200 W Kinzie St Chicago 44 Ill 2-3-5-10-13-18-20	Monitors, audio 2	P O Box 532 Union N.J
Skiatron Electronics & TV Corp	Monitors, frequency	Pye Canada Ltd 82 Northline Rd
New York 14 NY 19-20-25-26	Monitors, modulation 4 Monitors, phase angle 5	Toronto 16 Ontario Canada
Solartron Electronic Group Ltd Queens Rd Thames Ditton	Monitors, power 6	Newmarket Rd Cambridge England 2-12
Surrey England	Monitors, service	Radio Corp of America
Specialty Eng'g Electronics Co 79 Clifton Pl Brooklyn 38 NY 10-11	Monitors, video color 8 Monitors, video line 9	Ransom Research
Spectralab Instruments 404 N Halstead Ave	Monitors, video off-the-air 10	323 W 7 St San Pedro Calif Rixon Electronics Inc
Pasadena Calif 11-21-23-26 Spencer-Kennedy Labs Inc	Monitors, VOR 11	2414 Reedie Dr Silver Spring Md 1-6 Seco Mfg Co
1320 Soldiers Field Rd Roston 25 Mars 10	Monitors, waveform 12	5015 Penn Ave S Minneapolis 19 Min Setchell-Carlson Inc
Sperry Gyroscope Co Div Sperry Rand Corp Great Neck NY 7-10	Advance Electronics Lab Inc 249 Terhune Ave Passaic NJ 5	New Brighton St Paul 12 Minn
Star-Kimble Motor Div Miehle Printing Press & Mfg Co	Aircraft Radio Corp Boonton NJ 11	Skiatron Electronics & TV Corp 180 Varick St New York 14 NY 8-9-10-11-12
200 Bloomfield Ave Bloomfield N. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Alden Electronic & Impulse Recording	190 Henry St. Stamford Conn
Stewart Warner Electronics Div 1300 N Kostner Ave Chicago 51 Ill 12	Equip Co P O Box 125 Westboro Mass 7 Altec Lansing Corp	Sperry Gyroscope Co Div Sperry Rand Corp Great Neck NY
Stoddart Aircraft Radio Co 6644 Santa Monica Blvd	1515 S Manchester Ave Anaheim Calif 2 American Communications Corp	Systron Corp
Hollywood 38 Calif 8-10	280 Broadway New York 17 NY 2 American Machine & Foundry Co	2055 Concord Blvd Concord Calif Tarc Electronics Inc
Sullivan Ltd H W 80 Shore Rd Port Washington NY 1	Defense Products Group	48 Urban Ave Westbury LI NY 8-9-10-12
Sylvania Electric Products Inc 1740 Broadway New York 19 NY 7	1101 N Royal St Alexandria Va 5-6 Andrew Antenna Corp	E Hillside Drive Bloomington Ind 2-9-12
Systron Corp	606 Beech St Whitby Ontario Can 5 Andrew California Corp	28 Ranick Dr Amitywille TT Mar a con-
Taffet Radio & TV Co	941 E Marylind Ave Claremont Calif 1-5 Andrew Corp	728 Garden St Carlstadt N.I
27-05 Brooklyn-Queens Expressway W Woodside 77 NY 1-11	363 E 75 St Chicago 19 III 1 Assembly Products Inc	460 North Ave New D. L. v.
Tally Register Corp	Wilson Mills Rd Chesterland 1 Ohio 6	TV Utilities Corp 112-33 Colonial Ave
Tarc Electronics Inc	Biddle Co James G 1316 Arch St Philadelphia 7 Pa 3	Corona 68 NY
48 Urban Ave Westbury LI NY 2-3-4-9-10-16-17-19-24	Blonder-Tongue Laboratories 9-25 Alling St Newark 2 NJ 9	U S Recording Co 1121 Vermont Ave Washington 5 DC 2
Technitrol Eng'g Co 1952 E Allegheny Ave	Browning Labs Inc	varo MIL CO
Philadelphia 34 Pa	750 Main St Winchester Mass 3-4 Buss-Clement-Doughten & Associates	2201 Walnut St Garland Texas Virginia Electronics Co
Tektronix Inc P O Box 831 Portland 7 Ore 10-13-18-25	201 B Studio Hill Chester Springs Pa 2-9 Capitol Transcription Service	River Rd & B & O R R Washington 16 DC 2 Walkirt Co
Telechrome Mfg Corp	1120-A Conn Ave NW Washington 6 DC 2 Central Electronics Inc	141 W Hazel St Inglewood 3 Calif Westronics Inc
Amityville LI NY 16-17-18-19-20-24-25-26	1247 W Belmont Ave Chicago 13 Ill	3605 McCart Ft Worth Texas
35-18 37 St Long Island City 1 NY 11-21	Cinema-Television Ltd Worsley Bridge Rd	Wickes Eng'g & Construction Co
Telerad Mfg Corp	Lower Sydenham 2-3-7-8 London SE 26 England 9-10-12	12 St & Ferry Ave Camden 4 NJ 8
Teletronics Lab Inc	Collins Radio Co	42—MEASUREMENT & TEST
54 Kinkel St Westbury NY 10-13-14-24 Tel-Instrument Electronics Corp	855 35 St NE Cedar Rapids Iowa 2 Commercial Radio Sound Corp	EQUIPMENT.
728 Garden St 2-3-4-5-9-11-14-15	652 1 Ave New York 16 NY 2 Conrac Inc	OSCILLATORS
Telonic Industries Inc	19217 D Foothill Blvd Glendora Calif 8-9-10 Consolidated Avionics Corp	Oscillators, audio
73 N 2 Ave Beech Grove Ind 5-6-7-10-11-14-21-23-24	66 Brooklyn Ave Westbury NY 3	Oscillators, cavity
Trad Electronics Corp	Dage TV Div Thompson Products W 10 St Michigan City Ind 8-9	Oscillators, code
Transitron Inc	Diamond Power Specialty Corp Lancaster Ohio 9-10	Oscillators, crystol
186 Granite St Manchester NH 5-6-7-11-14-21-23	Eidson Electronic Co	Oscillators, microwave
112-33 Colonial Ava Game as ava-	1902 N 3 St Temple Texas 7 Electrend Products Corp	Oscillators, pulse
Universal Atomics Corp	Box 110 St Joseph Mich Electric Regulator Corp	Oscillators, R-F
50 Bond St Westbury LI NY 10-13	Pearl St Norwalk Conn 3-6	Oscillators, tuning fork
P O Box 33E Charlottesville Va 1	Foto-Video Labs Inc 25 Amity St Little Falls NJ 9-12	Oscillators, ultra low frequency 11
Vectron Inc	Gates Radio Co 123 Hampshire St Quincy III 2-3-4	Oscillators, ultrasonic 12 Oscillators, video pattern 13
Waldorf Instrument Co	General Precision Lab Inc	Oscillators, video range 14
Div F C Huyck & Sons Park Ave Huntington Station NY 7	General Radio Co	Acoustica Associates
Walkirt Co 141 W Hazel St Inglewood 3 Calif 10-13-25	275 Massachusetts Ave Cambridge 39 Mass 3-4 Gotham Audio Development Corp	Shore Rd Glenwood Landing LI NY 12 Admittance Namco Corp
	2 W 46 St New York 36 NY	Marine St Farmingdale LI NY 2-6

Airmec Ltd High Wycombe	El-Tronies Inc	Muirhead Instruments Inc 677 5 Ave New York 22 NY 1-10-11-1:
Buckinghamshire England 1-8 Alfred Electronics	Penn Ave Mayfield Pa Engineered Electronics Co	Mytron Mfg Co
897 Commercial St Palo Alto Calif 6-9	506 E 1 St Santa Ana Calif Erco Radio Labs Inc	4522 Brazil St Los Angeles 39 Calif Norrman Laboratories Ernst
Alto Scientific Co 855 Commercial St Palo Alto Calif 5-7-8	637 Stewart Ave Garden City NY	Williams Bay Wis North American Instruments Inc
Amerac Inc 116 Topsfield Rd Wenham Mass 2-6-7-8	Essex Electronics 550 Springfield Ave Berkeley Heights NJ 8	2420 N Lake St Altadena Calif 9-1
American Coil Inc	Federal Telephone & Radio Co Div IT&T	Northern Radio Co 143 W 22 St New York 11 NY
21-28 45 Rd Long Island City 1 NY 8 American Electronics Co	100 Kingsland Rd Clifton NJ Femco Inc	Nuclear-Electronics Corp
1203 Bryant Ave New York 59 NY 3	Irwin Pa	2632 W Cumberland St Philadelphia 32 Pa
American Machine & Foundry Co Defense Products Group	Foto-Video Labs Inc 25 Amity St Little Falls NJ 7-13-14	Oltronix Corp
1101 N Royal St Alexandria Va	Frequency Standards Inc PO Box 504 Asbury Park NJ 2-6-8	235 Underwood Dr Atlanta 5 Ga
American Time Products Inc 580 5 Ave New York 36 NY 10	F-R Machine Works Inc	Pace Electrical Instruments Co 70-31 84 St Glendale 27 LI NY
Antlab Inc 4950 N High St Columbus 14 Ohio 10	Electronic & X-Ray Div 26-12 Borough Pl Woodside 77 NV 2-6-8	Packard Bell Electronics Corp 12333 W Olympic Blvd
Applied Research Inc	Cates Radio Co	Los Angeles 64 Calif
163-07 Depot Rd Flushing 58 NY 9-11 Artted Co	123 Hampshire St Quincy III General Coil Products Corp	Panoramic Radio Products Inc 10 S 2 St Mt Vernon N Y
367 Worthington St Springfield 3 Mass 8	43 Roselle St Mineola NY 8-12	Philamon Labs Inc
Avionics Ltd P O Box 200	General Communication Co 677 Beacon St Boston 15 Mass 6-7-8-9	90 Hopper St Westbury LI NY Polarad Electronics Corp
Niagara-on-the-Lake Ontario Canada 6	General Radio Co 275 Massachusetts Ave	43-20 34 St Long Island City 1 NY 2-6- Polytechnic Research & Development Co
Barker & Williamson Inc Canal & Beaver Sts	Cambridge 39 Mass 1-4-6-7-8-9-10-12	202 Tillary St Brooklyn 1 NY 2-
Bristol Pa 1-5-7-8-9-11-12	Greene Co L Charlton 314 Washington St Newton 58 Mass 8	Polytronic Research Inc 7660 Woodbury Dr Silver Spring Md
Bell & Gossett Co 8200 Austin Ave Morton Grove III 10-11-12	Guild Electronics Inc	Power Supplies Inc
Bendix Aviation Corp Pacific Div 11600 Sherman Way N Hollywood Calif 1	Gyro Electronics Co	1005 Olive St Highland III Precise Development Corp
Biddle Co James G	325 Canal St New York 13 NY	2 Neil Ct Oceanside NY 1-8-9-1
1316 Arch St Philadelphia 7 Pa 10 B J Electronics Borg-Warner Corp	Hallicrafters Co 4401 W 5 Ave Chicago 24 III 2-6-7	Precision Apparatus Co 70-31 84 St Glendale 27 LI NY 1-8-
3300 Newport Ave Santa Ana Calif 2-8	Hammarlund Mfg Co	Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass
Bogart Mfg Corp 315 Seigel St Brooklyn 6 NY 6	460 W 34 St New York 1 NY Harvey-Wells Electronics Inc	Production Research Corp
Boonton Electronics Corp	North St Southbridge Mass	Thornwood NY Pulse Techniques Inc
Bulova Watch Co Electronics Div	Heath Co 305 Territorial Rd	1411 Palisade Ave W Englewood NJ
40-01 61 St Woodside 77 NY Burroughs Corp	Benton Harbor Mich 1-5-8-9 Hewlett-Packard Co	Pye Canada Ltd 82 Northline Rd Toronto 16
6071 2 Ave Detroit 32 Mich	275 Page Mill Rd	Ontario Canada 1-4-1
Burr-Brown Research Corp Route 4 Box 139 Tucson Ariz	Palo Alto Calif 1-2-6-9-11-12-14 Hickok Electrical Instrument Co	Radex Corp 2076 Elston Ave Chicago 14 III
Buss-Clement-Doughten & Associates	10514 Dupont Ave Cleveland 8 Ohio 1-4-7-8-9-11-12-13-14	Radiation Inc
201 B Studio Hill Chester Springs Pa Calif Technical Industries	Hill Electronic Eng'g & Mfg Co	P O Box 37 Melbourne Fla Radio City Products Co
1421 Old County Rd Belmont 10 Calif 6	New Kingstown Pa 4-10-11 Hoover Electronics Co	Centre & Glendale Sts Easton I'a
Canoga Corp 5955 Sepulveda Blvd Van Nuys Calif 9	3640 Woodland Ave Baltimore 7 Md	Radio Corp of America 415 S 5 St Harrison NJ
Carol Electronics Corp	Hughes Products Hughes Aircraft Co 5340 W 104 St Int'l Airport Sta	Radio Eng'g Products Ltd
315 W Stephen St Martinsburg W Va 1 Cavitron Electron Oscillator Co Div	Los Angeles 45 Calif Hycon Eastern Inc	1080 University St Montreal 3 Quebec Canada
Short Wave Plastic Forming	75 Cambridge Pkwy Cambridge 42 Mass 4-6	Ransom Research 323 W 7 St San Pedro Calif 1-8-10-
355 N Newport Blvd Newport Beach Calif 2-5-6-8-12	Induction Heating Corp 181 Wythe Ave Brooklyn 11 NY 8-12	Raytheon Mfg Co Commercial Equip Div
Century Electronics Co 34 Oleander St Cocoa Fla	Industrial Research Labs Div Aeronca	100 River St Waltham 54 Mass Reeves-Hoffman Div Standard Electronics
CG Electronics Corp	Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md 1-2-3-4-12	Corp 145 Cherry St
305 Dallas St N E Albuquerque New Mex 1-11	Industrial Test Equipment Co 55 E 11 St New York 3 NY 1-10	Carlisle Pa Resdel Eng'g Corp
CGS Laboratories Inc	Instrument Labs	330 S Fair Oaks Ave Pasadena Calif Riverbank Labs Eng'g Dept
Cinama-Television Ltd	315 W Walton Pl Chicago 10 III 1 International Research Associates	P O Box 65 Geneva III
Worsley Bridge Rd Lower Sydenham London SE 26 England 1-7-8	2221 Warwick Ave Santa Monica Calif  Jackson Electrical Instrument Co	Ross Mfg Co 2538 Peterson Ave Chicago 45 III 1
Clegg Labs Div Clegg Inc	18 S Patterson Blvd Dayton 2 Ohio 1-3-9	Seels Radio Co
Ridgedale Ave Morristown NJ 0-1-3	Jerrold Electronics Corp 23 & Chestnut Sts Philadelphia 3 Pa 8	2814 19 St San Francisco 10 Calif Scantlin Electronics Inc
855 35 St N E Cedar Rapids Iowa 4	J-V-M Eng'g Co	11624 W Pico Blvd
Communication Accessories Co 110 St & 71 Hwy Hickman Mills Mo	4633 S Lawndale Ave Lyons III 2-6-8 Johnson Co E F	Sanga Falls Muchine Co
Dallons Labs	Waseca Minn 8 Kay Electric Co	314 Fall St Seneca Falls N1
5066 Santa Monica Blvd Los Angeles 29 Calif	14 Maple Ave Pine Brook NJ 1-8	Servomex Controls Ltd 80 Shore Rd Port Washington NY 9-
Daven Co	Knights Co James Church & Wells Sts Sandwich III 4	Shasta Div Beckman Instruments Inc P O Box 296 Station A Richmond Calif 1-
Desgan Inc J C	Krohn Hite Corp	Charged Luke Inc
1770 W Berteau Ave Chicago 13 III 10 DeMornay-Bonardi Corp	580 Massachusetts Ave Cambridge 39 Mass 1-11-12	480 Morris Ave Summit NJ Skiatron Electronics & TV Corp
780 S Arroyo Pkwy Pasadena Calif 6	Laboratory For Electronics Inc	140 Variet St New York 14 NT 0-12-19-
Diamond Antenna & Microwave Corp 7 North Ave Wakefield Mass 2-6-8	Langevin Mfg Corp	Solartron Electronic Group Ltd
Donner Scientific Co	47-37 Austell Pl Long Island City 1 NY 1-10 Lavoie Labs Inc	mi - Ditton Surrey England 1-1-1-
Doty Acoustical Electronic Labs	Matawan-Freehold Rd Morganville NJ 2	Southwestern Industrial Electronics Co 2831 Post Oak Rd Houston 19 Texas 1-11-
431 Broome St New York 13 NY Douglas Microwave Co	Lehigh Valley Electronics Eng'g & Mfg Co 215 S 3 St Allentown Pa	Spectralab Instruments 404 N Halstead Ave Pasadena Calif
252 E 3 St Mt Vernon NY 2-6	Lepel High Frequency Labs 54-18 37 Ave Woodside 77 NY 12	Georgiand Crystal Co
Dunlap Electronics 764 9 St Des Moines 14 Iowa	Lysco Mfg Co	1714 Locust St Kansas City Mo
Eastern Precision Resistor Corp	1401 Clinton St Hoboken NJ 3-4-5-8 McKenna Laboratories	137-151 Walsh Ave Newburgh Na
675 Barbey St Brooklyn 7 NY Electrend Products Corp	2503 Main St Santa Monica Calif 12	Stewart Eng'g Co Box 277 Soquel Calif
Box 110 St Joseph Mich	Majestic Int'l Corp 79 Washington St Brooklyn 1 NY 1-7	Grammet Warner Electronics Div
Electronic Instrument Co 84 Withers St Brooklyn 11 NY I-8	Manson Laboratories Inc	1300 N Kostner Ave Chicago 31 III
Electronic Measurements Co Lewis St & Maple Ave Eatontown NJ	207 Greenwich Ave Stamord Conn 4-8 Marconi Instruments Ltd	80 Shore Rd Port Washington N1
Electronic Specialty Co	44 New St New York 4 NY 6-7-8	Swan Electronics Co 5016 N Austin Ave Chicago 30 III
5121 San Fernando Rd Los Angeles 39 Calif 7-8	Maxson Instruments Div W L Maxson Corp 47-37 Austell Pl Long Island City 1 NY 2-8	Tutat Padio & TV Co
Electronic Tube Corp	Measurement Eng'g Ltd 232 John St Arnprior Ontario Can 1-4-8	27-05 Brooklyn-Queens Expressway W Woodside 77 NY
1200 E Mermaid Lane Philadelphia 18 Pa 9 Electro-Pulse Inc	Metronix Inc	Tarc Electronics Inc 48 Urban Ave Westbury LI NY 13-
11861 Teale St Culver City Calif Electro Sound Corp	Mill Lane Waterford Conn 1-11-12 Muirhead & Co Ltd	Telechrome Mfg Corp
115 Halleck St Boston 15 Mass 1	Beckenham Kent England 1-10-11	28 Ranick Dr Amityville LI NY 4-13-

Telectro Industries Corp	Electronic Measurements Corp	44-MEASUREMENT & TEST
35-18 37 St 1-2-3-4-5-6-7-8 Long Island City 1 NY 9-10-11-12-14	625 Broadway New York 12 NY 1 Electronic Tube Corp	EQUIPMENT—SPECIAL
Tele Dynamics Inc 32 & Walnut Sts	1200 E Mermaid Lane Philadelphia 18 Pa 3-4-5	PURPOSE
Philadelphia 4 Pa 1-4-6-7-8-9 Teletronics Lab Inc	Feiler Eng'g & Mfg Co 8026 N Monticello Ave Skokie Ill 1-5	Attenuators, A-F
54 Kinkel St Westbury NY 1-8-9-11 Textran Corp	Franklin Electronics Inc Box 113 Bridgeport Pa 1	Attenuators, logarithmic 2
Box 4252 Austin 51 Texas 4 Times Facsimile Corp	General Electric Co Apparatus Sales Div	Attenuators, R-F
540 W 58 St New York 19 NY 10 Transitron Inc	1 River Rd Schenectady 5 NY 4-7 Geotechnical Corp	Bolometers 5
186 Granite St Manchester NH 2-6-8-9 Triplett Electrical Instrument Co	3712 Haggar Dr Dallas 9 Texas 2-3-4-7 Gruen Industries Inc	Cabinets, temperature test 6 Calibrators, sweep 7
Harmon Rd Bluffton Ohio 8-9-11-13-14	Time Hill Cincinnati 6 Ohio  Hamilton Watch Co Allied Products Div	Calibrators, UHF 8
Ultradyne Eng'g Labs P O Box 3308 Albuquerque New Mex 1	Columbia Ave Lancaster Pa 3-7 Hathaway Instrument Div	Cameras, oscilloscope recording 9 Chronographs10
Uniwave Inc 2 Marine St Farmingdale NY 6-7-8	Hamilton Watch Co	Chronoscopes11
Vari-L Co 432 Fairfield Ave Stamford Conn 9	Heath Co 305 Territorial Rd Benton Harbor Mich 1	Combustion test equipment 12 Comparators, automatic resis-
Vectron Inc 1611 Trapelo Rd Waltham 54 Mass 6	Heiland Div Minneapolis-Honeywell 5200 E Evans Ave Denver 22 Colo 2-3-5-7-8	tance 13
Virginia Electronics Co River Rd & B&O RR Washington 16 DC 1	975 Den Will Da Da and and and	Comparators, circuit linearity . 14 Comparators, voltage 15
Vokar Corp 7300 Huron River Dr Dexter Mich 8	Hickok Electrical Instrument Co	Converters, frequency 16
Voron & Co George 835 N 19 St Philadelphia 30 Pa 1-3-6	10514 Dupont Ave Cleveland 8 Ohio 1-5 Hughes Aircraft Co	Delay lines
Walkirt Co	Florence & Teale Sts Culver City Calif 8 Hughes Products Hughes Aircraft Co	Filters 19
141 W Hazel St Inglewood 3 Calif 4-10 Waveforms Inc	5340 W 104 St Int'l Airport Sta Los Angeles 45 Calif 1-2-3-5-8	Frequency measuring equipment 20 Integrators
333 6 Ave New York 14 NY 1-11-12 Wells-Gardner & Co	Hycon Mfg Co 707 S Raymond Ave Pasadena Calif 1	Inverters 22
2701 N Kildare Ave Chicago 39 Ill 12 Westbury Electronics Inc	Industrial TV Inc	Locators, cable & line faults 23 Locators, open-short 24
300 Shames Dr Westbury NY 4-8 Wheeler Labs Inc	Jackson Electrical Instrument Co	Locators, pipe & cable 25
122 Cutter Mill Rd Great Neck NY 6-9 White Electron Devices Inc Roger	Matawan Frankill D. M.	Microwave test equipment 26 Multivibrators
92 4 Ave Haskell NJ Wollensak Optical Co	3180 Hanguar Ct. D. J. All.	Pressure measuring equipment 28
850 Hudson Ave Rochester 22 NY 7 Woodwelding Inc	Massa Lanoratories Inc	Probes
355 N Newport Blvd Newport Beach Calif 2-5-8-12	Mederaft Electronic Corp	Radar test sets
WRL Electronics Inc 3415 W Broadway Council Bluffs Iowa 3	426 Great East Neck Rd Babylon NY 1-2-3-4-7 Mid-Century Instrumatic Corp	Recorders, frequency response . 32 R-F interference equip 33
area and a second states towards	611 Broadway New York 12 NY 2-3-7 Midwestern Instruments	Servos
	P O Box 7186 Tulsa Okla 2-3-4-5-7 Millen Mfg Co James	Slotted lines
43—MEASUREMENT & TEST	150 Exchange St Malden 48 Mass 1-5 Minn-Honeywell Regulator Co	Specialties, capacitor 36 Specialties, inductance 37
EQUIPMENT—	Nuclear-Electronics Corn 7	Specialties, resistance 38
OSCILLOGRAPHS	2632 W Cumberland St Philadelphia 32 Pa	Spectrometers
Oscillographs, cathode-ray 1	Offner Electronics Inc	Spectroscopic source units 41
Oscillographs, direct writing 2 Oscillographs, multi-channel 3	70-31 84 St Glendale 27 LL NV	Synchroscopes
Oscillographs, multi-element 4	Philos Corp Accessory Div  "A" & Allegheny Ave Philadelphia 34 Pa 2	Thermopiles 44
Oscillographs, portable 5 Oscillographs, projection 6	1000 N Oline St. A. L. C.	Tracers, signal
Oscillographs, recording 7	Photron Instrument Co 6516 Detroit Ave Cleveland 2 Ohio 2-3-5-7	Transducers, sonar 48 Tuning forks 49
Oscillographs, transient study . 8 Acton Laboratories	7660 Woodbury Dr Silver Spring Md	Vibration measuring equipment . 50
533 Main St Acton Mass 7	2 Neil Ct Occarrida NV	VSWR measuring equipment 51
American Electronic Laboratories 121 N 7 St Philadelphia 6 Pa 1	70-31 84 St Claratel of Type	Abrams Instrument Corp
Bolton Labs Inc W Main St Bolton Mass 1	Contro & Classic Co	606 E Shiawassee St Lansing 1 Mich 9 Acoustica Associates
Bristol Co P O Box 1790 EITT Waterbury 20 Conn 7	Radio Corp of America	Shore Rd Glenwood Landing LI NY 46-47 Adler Electronics Inc
750 Main St Winchester Mass	415 S 5 St Harrison NJ Railway Communications Inc	1 LeFevre Lane New Rochelle NY 20-31 Admittance Namco Corp
Brush Electronics Co Div Clevite Corp	9351 E 59 St Daytown 33 Mo 1-3 Reeves Instrument Corp	Marine St Farmingdale LI NY 3-26-31-50 Advance Electronics Lab Inc
3405 Perkins Ave Cleveland 14 Ohio 2-3-4-5-7-8	215 E 91 St New York 28 NY 3-7 Sanborn Co	249 Terhune Ave Passaic NJ 17 Advance Industries Inc
Brush Electronics Co Texas Div 3732 Westheimer Rd Houston 6 Texas 3-4-5-7	175 Wyman St Waltham 54 Mass 2-3-5-7 Seismograph Service Corp	640 Memorial Dr Cambridge 39 Mass 31 Advance Instrument Corp
Central Electronics Inc	6200 E 41 St Tulsa 1 Okla 7-23 Skiatron Electronics & TV Corp	1709 F St Belmar NJ 34 Advanced Electronics Inc
1247 W Belmont Ave Chicago 13 Ill 1 Central Research Labs	180 Varick St New York 14 NY 1-2-3-4-5-6-7-8	94 Silas Deane Hwy Rocky Hill 9 Conn 29 Aero Instrument Co
Red Wing Minn 1-2-3-7-8 Century Electronics Co	Solartron Electronic Group Ltd Queens Rd Thames Ditton	11423 Vanowen St N Hollywood Calif 20
34 Oleander St Cocoa Fla 2-3-4 Cinema-Television Ltd 2-3-4	Surrey England 1-3-5-8 Southwestern Industrial Electronics Co.	Aerolite Electronics Corp 507 26 St Union City NJ 29
Worsley Bridge Rd Lower Sydenham London SE 26 England 1-3-7	2831 Post Oak Rd Houston 19 Texas 5-7 Stoelting Co C H	Aeronautical Electronics Inc P O Box 6527 Raleigh NC 18
Consolidated Electrodynamics Corp 300 N Sierra Madre Villa	424 N Homan Ave Chicago 24 Ill 2-3 Sylvania Electric Products Inc	Aerovox Corp Pacific Coast Div 2724 S Peck Rd Monrovia Calif 3
Pasadena Calif Cossor (Canada) Ltd	1740 Broadway New York 19 NY 1	Airborne Electronics Co 6813 Troost Ave N Hollywood Calif 31
301 Windsor St Halifax Nova Scotia Canada	Tektronix Inc P O Box 831 Portland 7 Ore 1-3-5-8	Aircraft Radio Corp Boonton NJ 18
Box 232 Dabbing Town Title 11	Teletronics Lah Inc 54 Kinkel St Westbury NY 1	AiResearch Mfg Co Div Garrett Corp 9851 Sepulveda Blvd
Du Mont Labs Inc Allen B	Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo Speedway	Los Angeles 45 Calif 28-46 Airflo Instrument Co
760 Bloomfield Ave Clifton NJ 1-5-7 Edin Co	Houston 6 Texas 2-3 Trad Electronics Corp	53 Addison Rd Glastonbury Conn 28-29-43 Airmec Ltd High Wycombe
207 Main St Worcester 8 Mass 7 Electro-Medical Lab Inc	1001 1 Ave Asbury Park NJ Triplett Electrical Instrument Co	Buckinghamshire England 9-20 Airpax Products Co
S Woodstock 10 Vt Electronic Instrument Co	Harmon Rd Bluffton Ohio 1-5 Waterman Products Co	Middle River Baltimore 20 Mo 20
84 Withers St Brooklyn 11 NY 1	2445 Emerald St Philadelphia 25 Pa 1	Air Transport Mfg Co 1114 N Sycamore Ave Los Angeles 38 Calif 6

Airtron Inc 1101 W Elizabeth Ave Linden NJ 3-26	-50	Barkley & Dexter 50 Frankfort St Fitchburg Mass	31	Cinema Eng'g Div Aerovox Corp 1100 Chestnut St Burbank Calif 1
Alcar Instruments Inc	-47	Earnes Development Co 213 W Baltimore Pike Lansdowne Pa	13	Cinema-Television Ltd Worsley Bridge Rd
Alford Mfg Co	-50	Barton Electronics Inc 1000 Farmington Ave W Hartford 7 Conn		Lower Sydenham 9-10-11-15-18 London SE 26 England 20-23-25-37
Alfred Electronics		Bassett Inc Rex		Clark Electronic Labs Box 165 Palm Springs Calif 38-46-47
897 Commercial St Palo Alto Calif Allegany Instrument Co	28	1314 NE 17 Ct Ft Lauderdale Fla Beckman/Helipot Corp	20	Clarostat Mfg Co
1091 Wills Mountain Cumberland Md 21 Allied Allegri Co	-46	Newport Beach Calif Beckman Instruments Inc	-21	Clegg Labs Div Clegg Inc
141 River Rd Nutley 10 NJ Allied Engraving & Stamping Co	43	Process Instruments Div 2500 Fullerton Rd Fullerton Calif	40	Ridgedale Ave Morristown NJ 26 Cleveland Instrument Co
17 Elm St Buffalo 3 NY	35	Beckman Instruments Inc Scientific Instruments Div		735 Carnegie Ave Cleveland 15 Ohio 46 Clippard Instrument Lab
Allison Labs Inc 14185 Skyline Dr La Puente Calif	19	2500 Fullerton Rd Fullerton 1 Calif	40	7374 Colerain Rd Cincinnati 24 Ohio 13
7000 Itingboury are	-43	Beckman & Whitley 973 E San Carlos Ave San Carlos Calif	9	Coaxial Connector Co 37 N 2 Ave Mt Vernon NY 1-3
Alto Scientific Co 855 Commercial St Palo Alto Calif 34	-50	Belfab Corp 11 Ramah Circle Agawam Mass	28	Coleman Instruments Inc
Aremac Associates 50 S San Gabriel Blvd Pasadena Calif	9	Bell Aircraft Corp P O Box 1 Buffalo 5 NY 1-3-18-20-21	-31	Colorado Research Corp
Amerac Inc 116 Topsfield Rd Wenham Mass 3-20-26	-31	Belock Instrument Corp 111-01 14 Ave College Point 56 NY	18	4697 E Evans Ave Denver 22 Colo Columbia Technical Corp
American Communications Corp. 280 Broadway New York 17 NY	1	Bendix Aviation Corp Pacific Div 11600 Sherman Way N Hollywood Calif	28	61-02 31 Ave Woodside 77 NY 17 Colvin Labs Inc
American Electronic Laboratories	31	Bendix Aviation Corp Bendix Radio Div	)-31	364 Glenwood Ave E Orange NJ 46 Community Eng'g Corp
121 N 7 St Philadelphia 6 Pa American Electronics Inc	91	Bendix Aviation Corp	,-01	Box 824 State Colloge Pa 3 Condenser Products Div New Haven
655 W Washington Blvd Los Angeles 15 Calif	39	1104 Fisher Bldg Detroit 2 Mich 12-18-31-3-	4-47	Clock & Watch Co 140 Hamilton St
American Gyro Corp 3030 Nebraska Ave Santa Monica Calif 22	-46	Bernco Engineering Corp 2320 S Tibbs Ave Indianapolis 41 Ind	43	New Haven 4 Conn 30-36 Conn Ltd C G
American Instrument Co	-28	Berndt-Bach Inc Auricon Div 6900 Romaine St Hollywood 38 Calif	9	1101 E Beardsley Ave Elkhart Ind 20 Consolidated Avionics
American Machine & Foundry Co		B & F Instruments Inc 4732 N Broad St Philadelphia 41 Pa	46	66 Brooklyn Ave Westbury NY 19-20-28-34-46 Consolidated Electrodynamics Corp
Electronics Div 1085 Commonwealth Ave Boston 15 Mass	27	Bishop & Co Platinum Works J Malvern Pa	43	300 N Sierra Madre Villa Pasadena Calif 28-29-39-46
American Machine & Foundry Co Defense Products Group 1101 N Royal S	lt.	B J Electronics Borg-Warner Corp 3300 Newport Ave		Corbin Corp
Alexandria Va 12-20-26-29-31-32 American Microwave Corp		Santa Ana Calif 3-19-28-30-35-40 Blackburn Electronic Corp	6-50	Corning Glass Works
11754 Vose St N Hollywood Calif American Optical Co Instrument Div	26	55 W 7 St Wyoming Pa	3	Corning NY Cossor (Canada) Ltd
Box A Buffalo 15 NY American Thermo Electric Co	40	Blonder-Tongue Laboratories 9-25 Alling St Newark 2 NJ	3	301 Windsor St Halifax Nova Scotia Canada 9-43
7269 Santa Monica Blvd Los Angeles 46 Calif	43	Blue M Electric Co 138 & Chatham St Blue Island Ill	6	Crescent Eng'g & Research Co 5440 N Peck Rd El Monte Calif 28-29-46
AMP Inc Chemical Dielectrics Div 155 Park St Elizabethtown Pa	30	Bogart Mfg Corp 315 Seigel St Brooklyn 6 NY	31	Custom Components Inc P O Box 248 Caldwell NJ 3
Ampex Corp	32	Bolton Labs Inc W Main St Bolton Mass 20-2		Dale Products Inc
934 Charter St Redwood City Calif Analogue Controls Inc		Boonton Electronics Corp 738 Speedwell Ave Morris Plains NJ	36	Columbus Nebr 38 Dallons Labs
39 Roselle St Mineola NY Anchor Specialty Mfg Co	3.1	Bourns Labs Inc 6135 Magnolia Ave Riverside Calif		5066 Santa Monica Blvd
Hollister Rd Teterboro NJ Andersen Labs Inc	19	Bowser Technical Refrigeration Div	46	Datran Electronics
39 Talcott Rd W Hartford Conn Anderton Electronic Lab	17	Bowser Inc Terryville Conn Branson Instruments Inc	6	3615 Aviation Blvd Manhattan Beach Calif 46
129 E 1800 S St Bountiful Utah Andrew Antenna Corp	19	37 Brown House Rd Stamford Conn Brew & Co Richard D	46	Daven Co Route 10 Livingston NJ 1-2-3-17-20-38
606 Beech St Whitby Ontario Can	50	90 Airport Rd Concord NH Bristol Co	17	Daytronic Corp 216 S Main St Dayton 2 Ohio 46
	5-50	P O Box 1790 EITT Waterbury 20 Conn 10-21-22-28-4	12.46	Deagan Inc J C 1770 W Berteau Ave Chicago 13 Ill 48
Andrew Corp 363 E 75 St Chicago 19 III	35	Browning Labs Inc 750 Main St Winchester Mass	7-9	Dearborn Electronic Labs Inc
Anetsberger Bros Northbrook III	6	Brubaker Electronics Inc 3652 Eastham Dr Culver City Calif		Decatur Electronic Industries Corp
Antlab Inc 4950 N High St Columbus 14 Ohio	21	Bruno-New York Industries Corp	17	203 Orinoco Dr Brightwater LI NY 29 Decker Aviation Corp
Applied Electronics Co 213 E Grand Ave S San Francisco Calif	18	460 W 34 St New York 1 NY Brush Electronics Co	5-26	1361 Frankford Ave Philadelphia 25 Pa 46 Defender Instrument & Regulator Co
Applied Physics Corp	9-40	Div Clevite Corp 3405 Perkins Ave		Boody III 28 Defiance Eng'g & Microwave Corp
Applied Research Inc 163-07 Depot Rd Flushing 58 NY	3	Cleveland 14 Ohio 13-20-28-29-4 Budd Stanley Co	16-50	Beverly Airport Beverly Mass 3-5
Arenberg Ultrasonic Laboratory		43-01 22 St Long Island City 1 NY	3	DeMornay-Bonardi Corp 780 S Arroyo Pkwy Pasadena Calif 20-26-31-50
Askania Regulator Co	3-17	Budelman Radio Corp 375 Fairfield Ave Stamford Conn	20	Designers for Industry
240 E Ontario St Chicago 11 Ill Associated Testing Labs	12	Burnell & Co		4241 Fulton Pkwy Cleveland 9 Ohio 31
409 Clinton Rd Caldwell NJ Atlantic Research Corp	6	Burroughs Corn	17-19	Detroit Controls Corp Norwood Controls Unit 934 Washington St
	16-47	Burroughs Corp Electronic Instruments I	17-27 Div	Norwood Mass 28-46 Deutschmann Corp Tobe
176 Blue Hill Ave Roxbury 19 Mass Atmosphere Control Co	19	1209 Vine St Philadelphia 7 Pa Calif Technical Industries	17	Norwood Mass 23-36
5315 Chester Ave Philadelphia 43 Pa	6	1421 Old County Rd Belmont 10 Calif	26-50	Devco Eng'g Inc P O Box 387 Caldwell NJ 28
Audio Instrument Co 133 W 14 St New York 11 NY	2	Cambridge Instrument Co Grand Central Terminal		Diamond Antenna & Microwave Corp 7 North Ave Wakefield Mass 3-20-26-31-35
Avionics Ltd P O Box 200 Niagara-on-the-Lake		New York 17 NY 10-29- Canadian Aviation Electronics Ltd	43-44	Digitronics Corp 35-10 36 Ave Long Island City 6 NY 17-30
Ontario Canada Axler Associates Inc	26-50	6214 Cote de Liesse Rd	17-31	Dilectron Div Gudeman Co 2669 S Myrtle Ave Monrovia Calif 17
	39-40	Canoga Corp 5955 Sepulveda Blvd Van Nuys Calif		Dit-Mco Inc Electronics Div 911 Broadway Kansas City Mo 23-24
Baird-Atomic Inc 33 University Rd	40.41	Carad Corp	31	Dittmore-Freimuth Corp
Cambridge 38 Mass 5-39- Baldwin-Lima-Hamilton Corp	10-41	2850 Bay Rd Redwood City Calif Carborundum Co Globar Div	17	Doty Acoustical Electronic Labs
Electronics & Instrumentation Div	28-46	Hyde Park Blvd Niagara Falls NY Cascade Research Corp	38	431 Broome St New York 13 NY 27 Douglas Microwave Co
Baldwin Products Corp 432 E Valley Blvd San Gabriel Calif	43	53 Victory Lane Los Gatos Calif Central Coil Co	26	252 E 3 St Mt Vernon NY 26
Barber-Colman Co		1720 N Luett St Indianapolis 22 Ind Central Scientific Co of Calif	17	Box 278 Saxonburg Pa 43 Du Mont Labs Inc Allen B
Rock St Rockford Ill Barker Sales Co	43	1040 Martin Ave Santa Clara Calif 39-	40-44	760 Bloomfield Ave Clifton NJ 9-19-20-29-32
996 Edgewater Ave Ridgefield NJ Barker & Williamson Inc	9-43	Chesapeake Instrument Corp Shadyside Md 28-29-	46-47	Dunlap Electronics 764 9 St Des Moines 14 Iowa 7-50
Canal & Beaver Sts Bristol Pa 17-19- Beckman/Berkeley Div Beckman	30-50	Chicago Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park	III 9	Dwyer Eng'g Co Pine St Ext Nashua NH 13-21-38
Instruments Inc 2200 Wright Ave	29-50	Chromatic Television Laboratories 1501 Broadway New York 36 NY	31	Dyna-Empire Inc 1075 Stewart Ave Garden City LI NY 20-47

Dynalysis Development Labs Inc 11941 Wilshire Blvd Los Angeles 25 C	alif 16
11941 Wilshire Blvd Los Angeles 25 C Eastern Precision Resistor Corp 675 Barbey St Brooklyn 7 NY	31-38
Eberline Instrument Div Reynolds Electrical 805 Early St	01 00
Santa Fe N Mex	30
Edgerton, Germeshausen & Grier 160 Brookline Ave Boston 15 Mass	9
Edo Corp 13-10 111 St College Point 56 LI NY	47
Elco Mfg Co 137 Herrick Rd	0.00.00
Electric Regulator Corp	3-26-35
Pearl St Norwalk Conn Electrical & Physical Instrument Corp	20
42-19 27 St Long Island City 1 NY Electro Impulse Lab Inc	3-30
208 River St Red Bank NJ 3-26-3 Electro-Medical Lab Inc S Woodstock 10 Vt	
Electronic Designs Inc	9-10
Electronic Instrument Co	29
84 Withers St Brooklyn 11 NY Electronic Specialty Co	29
5121 San Fernando Rd	3-20-33
Los Angeles 39 Calif Electronic Tube Corp 1200 E Mermaid Lane Philadelphia 18	Pa 9
1200 E Mermaid Lane Philadelphia 18 Electron Products Inc 430 N Halstead St Pasadena 8 Calif	36
Electro Products Labs Inc 4501 N Ravenswood Ave Chicago 40 II	
Electro-Pulse Inc 11861 Teale St Culver City Calif	8
Electrovert Inc	3-26
489 5 Ave New York NY Elektro Serv Co 480 Johnson Ave Brooklyn 37 NY	3-38
480 Johnson Ave Brooklyn 37 NY Ellison Draft Cage Co 548 W Monroe St Chicago 6 Ill	12-28
Emerson Electric Mfg Co 8100 Florissant Ave St Louis 21 Mo	50
Elm Labs 10 Washington Ave	
Hastings-on-Hudson NY El Rad Mfg Co	20
2800 W Cullom Ave Chicago 18 Ill	17
Empire Devices Products Corp 38-15 Bell Blvd Bayside 61 NY	3
Endevco Corp 161 E California St Pasadena Calif 29 Engineering Associates	-30-46
434 Patterson Rd Dayton 9 Ohio	20-26
4902 Lawrence St Bladensburg Md Epsco Inc	3
Entron Inc 4902 Lawrence St Bladensburg Md Epsco Inc 588 Commonwealth Ave Boston 15 Ma Eric Resistor Corp	
588 Commonwealth Ave Boston 15 Ma Erie Resistor Corp 644 W 12 St Erie 6 Pa	
588 Commonwealth Ave Boston 15 Ma Erie Resistor Corp 644 W 12 St Erie 6 Pa Erwood Inc 1770 W Berteau Ave Chicago 13 III ESC Corp	38 29
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588 Commonwealth Ave Boston 15 Marchie Eric Resistor Corp 644 W 12 St Erie 6 Pa Erwood Inc 1770 W Berteau Ave Chicago 13 Ill ESC Corp 534 Bergen Blvd Palisades Park NJ Essex Electronics Div NYT Electronics I 7303 Atoll Ave N Hollywood Calif Essex Electronics Div NYT Electronics I 7303 Atoll Ave N Hollywood Calif Essex Electronics Div NYT Electronics I 7304 Fairchild Camera Div 88-06 Van Wyck Expwy Jamaica I NY Fairchild Controls Corp Components Div 225 Park Ave Hicksville LI NY Fairchild Guided Missiles Div Farnsworth Electronics Co Div IT&T 3702 E Pontiac St Ft Wayne Ind Farnand Controls Inc 4401 Bronx Blvd New York 70 NY Fecker Inc J W 6592 Hamilton Ave Pittsburgh 6 Pa Federal Mfg & Eng'g Corp 1055 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ 13-15-17-20- Feiler Eng'g Mfg Co 8026 N Monticello Ave Skokie Ill Fenwal Inc Pleasant St Ashland Mass Fielden Instrument Div Robertshaw-Fulton Controls Co 2920 N 4 St Philadelphia 33 Pa Fillmohm Corp 48 W 25 St New York 10 NY	38 29 17-30 nc 17 37 17 17 9 46 31 43-44 10 30 21-26 45 43 3
588 Commonwealth Ave Boston 15 Marchie Eric Resistor Corp 644 W 12 St Erie 6 Pa Erwood Inc 1770 W Berteau Ave Chicago 13 III ESC Corp 534 Bergen Blvd Palisades Park NJ Essex Electronics Div NYT Electronics I 7303 Atoll Ave N Hollywood Calif Essex Electronics 550 Springfield Ave Berkeley Heights N Fairchild Camera and Instrument Corp Industrial Camera Div 88-06 Van Wyck Expwy Jamaica 1 NY Fairchild Controls Corp Components Div 225 Park Ave Hicksville LI NY Fairchild Guided Missiles Div Fairchild Engine & Airplane Corp Straight Path Wyandanch LI NY Falstrom Co Falstrom Court Passaic NJ Farnsworth Electronics Co Div IT&T 3702 E Pontiac St Ft Wayne Ind Farrand Controls Inc 4401 Bronx Blvd New York 70 NY Fecker Inc J W 6592 Hamilton Ave Pittsburgh 6 Pa Federal Mfg & Eng'g Corp 1055 Stewart Ave Garden City NY Federal Mfg & Eng'g Corp 1005 Kingsland Rd Clifton NJ 13-15-17-20- Feiler Eng'g Mfg Co 8026 N Monticello Ave Skokie III Fenwal Inc Pleasant St Ashland Mass Fielden Instrument Div Robertshaw-Fulton Controls Co 2920 N 4 St Philadelphia 33 Pa Filmohm Corp 48 W 25 St New York 10 NY Filtron Co 10023 W Jefferson Blvd Culver City Calif	38 29 17-30 nc 17 J 17 46 31 43-44 10 30 21-26 45 43
588 Commonwealth Ave Boston 15 Marchie Eric Resistor Corp 644 W 12 St Eric 6 Pa Erwood Inc 1770 W Berteau Ave Chicago 13 Ill ESC Corp 534 Bergen Blvd Palisades Park NJ Essex Electronics Div NYT Electronics I 7303 Atoll Ave N Hollywood Calif Essex Electronics 550 Springfield Ave Berkeley Heights N Fairchild Camera and Instrument Corp Industrial Camera Div 88-06 Van Wyck Expwy Jamaica I NY Fairchild Controls Corp Components Div 225 Park Ave Hicksville LI NY Fairchild Guided Missiles Div Fairchild Engine & Airplane Corp Straight Path Wyandanch LI NY Falstrom Co Falstrom Court Passaic NJ Farnsworth Electronics Co Div IT&T 3702 E Pontiac St Ft Wayne Ind Farrand Controls Inc 4401 Bronx Blvd New York 70 NY Fecker Inc J W 5592 Hamilton Ave Pittsburgh 6 Pa Federal Mfg & Eng'g Corp 1055 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ 13-15-17-20- Feller Eng'g Mfg Co 8026 N Monticello Ave Skokie Ill Fenwal Inc Pleassant St Ashland Mass Fielden Instrument Div Robertshaw-Fulton Controls Co 2920 N 4 St Philadelphia 33 Pa Filmohm Corp 48 W 25 St New York 10 NY Filtron Co 10023 W Jefferson Blvd Culver City Calif Filtron Co 131-15 Fowler Ave Flushing 55 NY 3-17-19-5	38 29 17-30 nc 17 J 17 46 31 43-44 10 30 21-26 45 43 43 3 17
588 Commonwealth Ave Boston 15 Marchie Eric Resistor Corp 644 W 12 St Eric 6 Pa Erwood Inc 1770 W Berteau Ave Chicago 13 Ill ESC Corp 534 Bergen Blvd Palisades Park NJ Essex Electronics Div NYT Electronics I 7303 Atoll Ave N Hollywood Calif Essex Electronics 550 Springfield Ave Berkeley Heights N Fairchild Camera and Instrument Corp Industrial Camera Div 88-06 Van Wyck Expwy Jamaica I NY Fairchild Controls Corp Components Div 225 Park Ave Hicksville LI NY Fairchild Guided Missiles Div Fairchild Guided Missiles Div Fairchild Guided Missiles Div Fairchild Guided Missiles Div Falstrom Co Falstrom Court Passaic NJ Farnsworth Electronics Co Div IT&T 3702 E Pontiac St Ft Wayne Ind Farrand Controls Inc 4401 Bronx Blyd New York 70 NY Fecker Inc J W 6592 Hamilton Ave Pittsburgh 6 Pa Federal Mfg & Eng'g Corp 1055 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ 13-15-17-20- Feiler Eng'g Mfg Co 3026 N Monticello Ave Skokie Ill Fenwal Inc Pleasant St Ashland Mass Fielden Instrument Div Robertshaw-Fulton Controls Co 2920 N 4 St Philadelphia 33 Pa Filmohm Corp 48 W 25 St New York 10 NY Filtron Co 10023 W Jefferson Blyd Culver City Calif Filtron Co 131-15 Fowler Ave Flushing 55 NY 3-17-19- First Electronics Corp 117 Blue Hill Ave Boston 19 Mass	38 29 17-30 nc 17 J 17 46 31 43-44 10 30 21-26 45 43 43 3 17
588 Commonwealth Ave Boston 15 Marchield Eric Resistor Corp 644 W 12 St Erie 6 Pa Erwood Inc 1770 W Berteau Ave Chicago 13 Ill ESC Corp 534 Bergen Blvd Palisades Park NJ Essex Electronics Div NYT Electronics I 7303 Atoll Ave N Hollywood Calif Essex Electronics Div NYT Electronics I 7303 Atoll Ave N Hollywood Calif Essex Electronics 550 Springfield Ave Berkeley Heights N Fairchild Camera and Instrument Corp Industrial Camera Div 88-06 Van Wyck Expwy Jamaica 1 NY Fairchild Controls Corp Components Div 225 Park Ave Hicksville LI NY Fairchild Guided Missiles Div Fairchild Engine & Airplane Corp Straight Path Wyandanch LI NY Falstrom Co Falstrom Court Passaic NJ Farnsworth Electronics Co Div IT&T 3702 E Pontiac St Ft Wayne Ind Farrand Controls Inc 4401 Bronx Blvd New York 70 NY Fecker Inc J W 6592 Hamilton Ave Pittsburgh 6 Pa Federal Mfg & Eng'g Corp 1055 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ 13-15-17-20- Feiler Eng'g Mfg Co 8026 N Monticello Ave Skokie Ill Fenwal Inc Pleasant St Ashland Mass Fielden Instrument Div Robertshaw-Fulton Controls Co 2920 N 4 St Philadelphia 33 Pa Filmohm Corp 48 W 25 St New York 10 NY Filtron Co 131-15 Fowler Ave Flushing 55 NY 3-17-19-1 First Electronics Corp 117 Blue Hill Ave Boston 19 Mass Fischer & Porter Co 478 Warminster Rd Hathore Pa	38 29 17-30 nc 17 37 17 9 46 31 43-44 10 30 21-26 45 43 3 17 30-33
588 Commonwealth Ave Boston 15 Marchie Eric Resistor Corp 644 W 12 St Erie 6 Pa Erwood Inc 1770 W Berteau Ave Chicago 13 III ESC Corp 534 Bergen Blvd Palisades Park NJ Essex Electronics Div NYT Electronics I 7303 Atoll Ave N Hollywood Calif Essex Electronics 550 Springfield Ave Berkeley Heights N Fairchild Camera and Instrument Corp Industrial Camera Div 88-06 Van Wyck Expwy Jamaica I NY Fairchild Controls Corp Components Div 225 Park Ave Hicksville LI NY Fairchild Guided Missiles Div Fairchild Engine & Airplane Corp Straight Path Wyandanch LI NY Falstrom Co Falstrom Court Passaic NJ Farnsworth Electronics Co Div IT&T 3702 E Pontiac St Ft Wayne Ind Farrand Controls Inc 4401 Bronx Blvd New York 70 NY Fecker Inc J W 6592 Hamilton Ave Pittsburgh 6 Pa Federal Mfg & Eng'g Corp 1055 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ 13-15-17-20- Feiler Eng'g Mfg Co 8026 N Monticello Ave Skokie III Fenwal Inc Pleasant St Ashland Mass Fielden Instrument Div Robertshaw-Fulton Controls Co 2920 N 4 St Philadelphia 33 Pa Filmohm Corp 48 W 25 St New York 10 NY Filtron Co 11023 W Jefferson Blvd Culver City Calif Filtron Co 117 Blue Hill Ave Boston 19 Mass Fischer & Porter Co	38 29 17-30 nc 17

DU 14 D	
Flight Research Inc P O Box 1-F Richmond 1 Va	9
Fluoracarbon Products Inc Div U S Gasket Co	
602 N 10 St Camden 1 NJ Forbes & Wagner Inc	29
343 Central Ave Silver Creek NY Foto-Video Labs Inc	17
Foto-Video Labs Inc 25 Amity St Little Falls NJ	17-27
Franklin Electronics Inc	
Box 113 Bridgeport Pa Freed Transformer Co 1718-36 Weirfield St Brooklyn 27 NY	30
1718-36 Weirfield St Brooklyn 27 NY Frequency Standards	37
Frequency Standards PO Box 504 Asbury Park NJ 16-2	
r-R Machine Works Inc	20-26-31
Electronic & X-Ray Div 26-12 Borough Pl	
Woodside 77 NY 5-20-26-30-3 Fugle-Miller Labs Inc	31-3 <b>5</b> -50
301 Central Ave Clark N.I.	17
Gaertner Scientific Corp 1250 Wrightwood Ave Chicago 14 Ill	10-39
1250 Wrightwood Ave Chicago 14 Ill Gardiner Electronics Co 2545 E Indian School Rd Phoenix A	riz 95
Garrett Corp AiResearch Mfg Co Div 9851 Sepulveda Blvd	2.0
Los Angeles 45 Calif	28-16
Gary Wells Co 361 Rockaway Ave Valley Stream NY	20
Gates Radio Co 123 Hampshire St Quincy III	20
General Bronze Corp	
711 Stewart Ave Garden City NY 1 General Communication Co	8-19-31
677 Beacon St Boston 15 Mass 2 General Controls Co	6-30-31
901 Allan A Ol 11 4 9 44	43
General Electric Co Capacitor Dept John St Hudson Falls NY General Electric Co Specialty Fleetynic Company of the Market NY	36
meen one components pent w	
Genesee St Auburn NY General Electric Co Apparatus Salas D	17
1 River Rd Schenectady 5 NY 39-4 General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wisc	0-42-43
4855 Electric Ave Milwaukee 1 Wisc	39
63 Bedford Rd Pleasantville NV	26
General Radio Co	
Cambridge 39 Mass 27-29-3	-17-20- 5-48-50
General Resistance Inc 577 E 156 St New York 55 NY	38
702 Beacon St Boston 15 Mass 2.1	5-20-35
Genisco Inc 2233 Federal Ave Los Angeles 64 Cali	
Gertsch Products Inc 11846 Mississippi Ave	if 46
Los Angeles 25 Calif Giannini & Co G M	20
918 E Green St Pasadena Calif 20	
918 E Green St Pasadena Calif G & M Equipment Co 7315 Varna Ave N Hollywood Calif	5-20-46
Goldak Co	26
1544 W Glenoaks Blvd Glendale 1 Cali Goodyear Aircraft Corp 1210 Massillon Rd Akron 15 Okt	f 25
Gordon Enterprises	31
5362 N. Cubuones Di. 1 37 77 11	Calif 9
Goslin Electric & Mfg Co 2921 W Olive Ave Burbank Calif GPS Instrument Co	30
Co	21
200 E Church Lane	
Philadelphia 44 Pa	38-43
Grav & Kuhn 20 Railroad Ave Roslyn Heights NY Grem Eng'g Co	17
488 1 St Proof-lim to NITE	26-31
Time Hill Cincinnati & Ohi-	
ivro Electronica Co	31
325 Canal St New York 13 NY Hacker & Co Wm J   32 Benver St New York 5 NY	27
82 Beaver St New York 5 NY Jagan Chemicals & Controls Inc	33
Hagan Ridg Pittebungh 20 m.	46
Hallett Mfg Co 1601 W Florence Inglewood Calif	33
Hallicrafters Co 4401 W 5 Ave Chicago 24 Ill	27
Iallikainen Instruments 1341 7 St Berkeley 10 Calif	
Iamilton Watch Co Allied Products Div	6
Iamner Electronics Co	'29
Princeton NJ Iancock Electronics Corp	27
2553 Middlefield Rd Redwood City Cali	if 9
Iansen Electronics Co 7117 Santa Monica Blvd	
Los Angeles 46 Calif Iarris Transducer Corp	3-38
Woodbury Conn	47
Iarshaw Chemical Co 1945 E 97 St Cleveland 6 Ohio	39-40
Iathaway Instrument Div Hamilton Watch Co 5800 E Jewell Ave Denver 22 Colo	
	40

Hays Corp	
Michigan City Ind Heiland Div Minneapolis-Honeywell	28
5200 E Evans Ave Denver 22 Colo Hett Associates	21
603 Grand Ave Englewood NJ	30
Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wis	43
Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif Hickok Electrical Instrument Co	30
10514 Dupont Ave Cleveland 8 Ohio 7-8 Hill & Co E Vernon	-29
P O Box 189 Lake Geneva Wis Holland Electronics	28
2133 Central Dr S East Meadow NY Hoover Electronics Co 3640 Woodland Ave Baltimore 7 Md 21	3
3640 Woodland Ave Baltimore 7 Md 21 Hupp Instru/mation Co	-31
2119 Sepulveda Blvd Los Angeles 25 Calif Hycon Eastern Inc	20
	19
707 S Raymond Ave Pasadena Calif Illinois Testing Labs Inc	20
420 N LaSalle St Chicago 18 Ill I-L-S Instrument Corp	43
4525 W 160 St Cleveland 11 Ohio Impact-O-Graph Corp	20
1900 Euclid Ave Cleveland 15 Ohio Indikon Co	29
76 Coolidge Hill Rd Watertown 72 Mass 28-	29
Industrial Condenser Corp 3243 N California Ave Chicago 18 Ill	36
Industrial Electronics Inc 8060 Wheeler St Detroit 10 Mich 28-	
Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds	
Baltimore 28 Md 20-26-	
55 E 11 St New York 3 NY 13-15-20- Industrial Transformer Corp	36
Gouldsboro Pa Instrument Development Labs Inc	19
67 Mechanic St Attlehoro Mass Instrument Resistors Co	40
1036 Commerce Ave Union NJ	38
Insuline Corp of America 186 Granite St Manchester NH International Radiant Corp	6
4 Manhasset Ave Port Washington NY International Research Associates	6
International Research & Development Co	46 rp
797 Thomas Lane Columbus 16 Ohio 20-	29
International Telemeter Corp 2000 Stoner Ave Los Angeles 25 Calif I-T-E Circuit Breaker Co Special Products Div 601 E Erie Ave	3
Products Div 601 E Erie Ave Philadelphia 34 Pa 3-26-	50
	16
Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa	36
Jacobs Instrument Co 4718 Bethesda Ave Bethesda 14 Md	17
Jarrell-Ash Co 26 Farwell St Newtonville 60 Mass 39-40-	41
Jarvis Electronics Corp 1140 Cherry St Winnetka Ill 18-2	23
	29
Jerrold Electronics Corp 23 & Chestnut Sts Philadelphia 3 Pa 3-20-	26
Johnson Aircraft Eng'g Co M J Box 10 Morristown Airport	
Morristown NJ 23-24-5 Johnson Co E F	
Waseca Minn 8-5 J-V-M Eng'g Co 4633 S Lawndale Ave Lyons III 3-26-3	
Kaar Eng'g Corp	
Kahl Scientific Instrument Corp	8
Kaiser Aircraft & Electronics Corp	16
Toledo Electronics Div P O Box 437 Toledo Ohio 15-3	7
Kay Electric Co 14 Maple Ave Pine Brook NJ 1-3-7-20-3	1
Kearfott Inc 1378 Main Ave Clifton NJ 2	6
Keithley Instruments Inc 12415 Euclid Ave Cleveland 6 Ohio 29-3 Kepco Labs	6
Kepco Labs 131-38 Sanford Ave Flushing NY 1 Keystone Electronics Corp	5
423 Broome St New York 13 NY 2	9
K-F Development Co 2606 Spring St Redwood City Calif Sistler Instrument Corp	8
15 Webster St N Tonowonds NV 98-99-4	6
Collsman Instrument Corp Standard Coil Products Sub 80-08 45 Ave Elmhurst 73 NY 4 aboratory For Electronics Inc	9
Lambda-Pacific Eng'g Inc 14725 Arminta St Van Nuys Calif 2	
ampkin Labs Inc  RFD 1 Bradenton Fla	
Diagentoni I ia	

Land-Air Inc Instrument & Electronic Div 2133 Adams Ave	MinAtron Corp	Phoenix Precision Instrument Co
San Leandro Calif 9-29-30-40	Belle Mead 9 NJ Minco Products Inc	3803 N 5 St Philadelphia 40 Pa 41 Photocon Research Products
Lane Electronics Mfg Corp	740 Washington Ave Minneapolis 1 Minn 38	421 N Altadena Drive Pasadena Calif 46
7254 Atoll Ave N Hollywood Calif Lansing Sound Inc James B	Minn-Honeywell Regulator Co	Photographic Analysis Inc
3249 Casitas Ave Los Angeles 39 Calif 47	Ordnance Div Hopkins Minn Minn-Honeywell Regulator Co	13273 Ventura Blvd N Hollywood Calif 9
Las-Lab Inc	2753 4 Ave S Minneapolis 8 Minn 9-43-44	Plastic Capacitors Inc 2620 N Clybourn Ave Chicago 14 III 36
220 S Mt Olivet Lane	Minn-Honeywell Regulator Co Aero Div	Polarad Electronics Corp
Baltimore 29 Md Layoje Labs Inc	1433 Stinson Blvd Minneapolis Minn 28 Minneapolis-Honeywell Regulator Co	43-20 34 St
Matawan-Freehold Rd Morganville NJ 13-20	Industrial Div	Long Island City 1 NY 3-20-26-31-41-50 Polyphase Instrument Co
Leach Corp Inet-Palmer Div	Wayne & Windrim Aves	E 4 St Bridgeport Pa 28
4441 S Santa Fe Ave Los Angeles 58 Calif	Philadelphia 44 Pa 15-20-28-43 Missileonics Inc	Polytechnic Research & Development Co
Lear Inc	PO Box 716 Melbourne Fla 30	202 Tillary St Brooklyn 1 NY 3-20-26
3171 S Bundy Drive	Model Eng'g & Mfg Inc	Potter Aeronautical Corp P O Box 532 Union NJ 16-20
Santa Monica Calif Leeds & Northrup Co	50 Frederick St Huntington Ind 1-27-38 Modern Laboratory Equip Co	Potter Co
1970 Stenton Ave Philadelphia 44 Pa 33-43	1811 1 Ave New York 28 NY 6	1950 Sheridan Rd N Chicago III 33-36
Lehigh Valley Electronics Eng g Mig Co	Moran Instrument Corp	Precise Development Corp 2 Neil Ct Oceanside NY 7-20-29
215 S 3 St Allentown Pa Leonard Electric Products Co	170 E Orange Grove Ave Pasadena 3 Calif	Precision Inc
67 34 St Brooklyn 32 NY	Muirhead & Co Ltd	730 N Lyndale Ave Minneapolis 11 Minn 38
Laurald & Stevens Instruments Inc	Beckenham Kent England 1-34-48	Precision Tube Co Church Rd & Wissahickon Ave
4445 NE Glisan St Portland 13 Ore Lewis Eng'g Co	Muirhead Instruments Inc 677 5 Ave	North Wales Pa 43
339 Church St Naugatuck Conn 45	New York 22 NY 1-20-29-34-48	Press Wireless Labs Inc
Librascope Inc Commercial Div	Muter Co	25 Prospect Pl W Newton 65 Mass 31-50
133 E Santa Anita Ave Burbank Calif 21 Librascope Inc	1255 S Michigan Ave Chicago 5 Ill 38 Narda Corp	Process & Instruments
808 Western Ave Glendale Calif 21	160 Herricks Rd Mineola NY 4-5-26-31-50	15 Stone Ave Brooklyn 33 NY 40
Lines Inc	National Coil Co	Production Research Corp Thornwood NY 1-2-7-8-18-20-26-33
3610 Oceanside Rd Oceanside LI NY 26-31 Litton Industries of Calif	P O Box 1237 Sheridan Wyo National Spectrographic Labs Inc	PSC Applied Research Ltd
336 N Foothill Rd Beverly Hills Calif 21-31	6300 Euclid Ave Cleveland 3 Ohio 40-41	1500 O'Connor Dr Toronto 16 Canada 9
Lorentzen Inc H K	Navco Navigation Computer Corp	Pye Canada Ltd 82 Northline Rd
391 W Broadway New York 12 NY Luther Electronic Mfg Co	1621 Snyder Ave Philadelphia 45 Pa 15-16 Nevada Air Products Co	Toronto 16 Ontario Canada 39-40
5728 W Washington Blvd	P O Box 2472 Reno Nev 26-31	Pye Telecommunications Ltd
Los Angeles 16 Calif	Nichols Products Co	Newmarket Hd Cambridge England 23-30 Radar Design Corp
McKenna Laboratories 2503 Main St Santa Monica Calif 34	325 W Main St Moorestown N.J 31-35 Nilsen Mfg Co	210 5 Ave New York 16 NY
McMillan Industrial Corp	21 N Church St Addison III 36-46	Radiation Inc
Brownville Ave Ipswich Mass 3-26	Norden-Ketay Corp	P O Box 37 Melbourne Fla 26-46 Radio City Products Co
Mackay Inc A D 198 Broadway New York 38 NY	Commerce Rd Stamford Conn 31 Norrman Laboratories Ernst	Centre & Glendale Sts Easton Pa 18-29
Mackay Radio & Telegraph Co Marine Div	Williams Bay Wis 20	Radio Corp of America Commercial
133 Terminal Ave Clark NJ Mack Electronics Div Mack Trucks Inc	North American Instruments Inc	Electronic Products Camden 2 NJ 3-20
40 Leon St Boston 15 Mass 21	2420 N Lake St Altadena Calif 28-32-46 Northeastern Eng'g Inc	Radio Corp of America
Magnaflux Corp	25 S Bedford St Manchester NH 20-31	415 S 5 St Harrison NJ
Magnagung Mfg Co	NRD Instrument Co	Radio Frequency Labs Inc Boonton NJ 20
5546 Satsuma Ave N Hollywood Calli 32	6425 Etzel Ave St Louis 14 Mo 29-39 Nuclear-Electronics Corp	Rahm Instruments Inc
Magnetic Research Corp 3160 W El Segundo Blvd Hawthorne Calif 30	2632 W Cumberland St	237 Lafayette St New York 12 NY 34-46
Magnuson Engineers Inc	Philadelphia 32 Pa 31	Ransom Research 323 W 7 St San Pedro Calif 20-27-30
590 Emory St San Jose 10 Calif 40	Nucleonic Products Co 1601 Grande Vista Ave	Raytheon Mfg Co Commercial Equip Div
Manning Maxwell & Moore Inc Shelter Rock Lane Danbury Conn 28-43	Los Angeles 23 Calif 5-43	100 River St Waltham 54 Mass 47 Ratigan Electronics Inc
Manson Laboratories Inc	NYT Electronics Inc 2979 N Ontario St Burbank Calif 17	3614 Maple Ave Los Angeles 11 Calif 17
207 Greenwich Ave Stamford Conn 20-26-30-31	2979 N Ontario St Burbank Calif 17 Offner Electronics Inc	Raytheon Mfg Co
Stamford Conn 20-26-30-31 Marconi Instruments Ltd	5320 N Kedzie Ave Chicago 25 III 28-29	100 River St Waltham 54 Mass 18 RCl, Mfg Co
44 New St New York 4 NY 3-20-26	Ohio Carbon Co 12508 Berea Rd Cleveland 11 Ohio 38	New Jersey Ave Riverside NJ 38
Massa Laboratories Inc 5 Fottler Rd Hingham Mass 29-46-47	Ohmite Mfg Co	Reeves Instrument Corp
Matthew Labs	3601 Howard St Skokie III 1-38	215 E 91 St New York 28 NY Reflectone Corp
146 Riverdale Ave Yonkers NY 21	Omega Labs Inc Haverhill St Rowley Mass 26-50	Boston Post Rd Stamford Conn 21-30
Maurer Inc J A 37-01 31 St Long Island City 1 NY 9	Optimum Eng'g Co	Resdel Eng'g Corp
MB Mfg Co Div Textron Inc	2017 Willow St Grand Prairie Texas 21	330 S Fair Oaks Ave Pasadena Calif Resistance Products Co
1060 State St New Haven 11 Conn 29	Ortho Filter Corp 196 Albion Ave Paterson 2 NJ 19	914 S 13 St Harrisburg Pa
Measurement Eng'g Ltd 232 John St Arnprior Ontario Can 10-39	Pace Eng'g Co	Revere Corp of America
Measurements Corp	6914 Beck Ave N Hollywood Calif 46	Wallingford Conn Rheem Mfg Co Electronics Div
Boonton NJ 3-8 Menlo Research Lab	Pacific Scientific Co P O Box 22019 Los Angeles 22 Calif 46	7777 Industry Ave Rivera Calif
538 Phelan Ave San Jose Calif 25	Packard Bell Electronics Corp	Rich Electronics Inc 212 NW 8 Ave Miami 36 Fla 32-31
Mepco Inc	12333 W Olympic Blvd	Richards Co Arklay S
Abbett Ave Morristown NJ 38 Merz Eng'g Inc	Los Angeles 64 Calif 17 Painton & Co Ltd c/o British Electronic	35 Winchester St
200 S Harding St Indianapolis Ind 46	Sales Co Box 132	Newton Highlands 61 Mass Riverbank Labs Eng'g Dept
Metavac Inc 45-68 162 St. Flushing 58 NY 3-38	Oakland Gardens 64 NY 1-2-3	PO Box 65 Geneva III 20-18
45-68 162 St Flushing 58 NY 3-38 Metronix Inc	Panellit Inc 7401 N Hamlin Ave Skokie Ill 28	Rivon Electronics Inc
Mill Lane Waterford Conn 8-20-29	Panoramic Radio Products Inc	2414 Reedie Dr Silver Spring Md 3-29-50 Rosemount Eng's Co
Micamold Electronics Mfg Corp 1087 Flushing Ave Brooklyn 37 NY 17	10 S 2 St Mt Vernon NY 9	Rosemount Minn 29
Mico Instrument Co	Pantek Co P O Box 212 El Segundo Calif 20	Royco Instruments
80 Trowbridge St Cambridge 38 Mass 20	Parr Mfg Corp	720 Arthur St Albany Calif Ruge Associates Arthur C
Micro-Circuits Co New Buffalo Mich 38	48 Hale St Cranford NJ 23-25	733 Concord Ave Cambridge 38 Mass 38
Microphase Corp	PCA Electronics Inc 16799 Schoenborn St Sepulveda Calif 17	Rutherford Electronics Co 3707 S Robertson Blvd Culver City Calif 7
Box 1166 Greenwich Conn 26	Peerless Photo Products Inc	Sage Labs Inc
Microwave Associates Inc Burlington Mass 20-26-50	Shoreham LI NY Peerless Products Industries	30 Guinan St Waltham 54 Mass 26
Mil Case Corp	812 N Pulaski Rd Chicago 51 III 29	Sangamo Electric Co Springfield Ill
35-18 37 St Long Island City NY 6 Millen Mfg Co James	Perkin-Elmer Corp	Scala Radio Co
150 Exchange St Malden 48 Mass 17-42	Main Ave Norwalk Conn 9-39-40-43 Peschel Electronics Inc	2814 19 St San Francisco 10 Calif Scantlin Electronics Inc
Miller Associates	13 Garden St New Rochelle NY 23-24	11624 W Pico Blvd
PO Box 369 Lakeville Conn 31	Petroff Corp Peter A	Los Angeles 64 Calif 20-27
Miller Instruments Inc William	127 Water St New York 5 NY 37 Phaostron Instrument & Electronic Co	Scherr Co George 200 Lafayette St New York 12 NY 28
325 N Halstead Ave Pasadena 8 Calif 46	151 Pasadena Ave S Pasadena Calif 29	Scientific Glass Apparatus Co
Miller-Trojan Co 3 North Ridge Ave Troy Ohio 21	Philamon Labs Inc	100 Lakewood Terrace
Milwaukee Gas Specialty Co	90 Hopper St Westbury LI NY 48 Phileo Corp Govt & Industrial Div	Bloomfield NJ Seismograph Service Corp
730 N Jackson St Milwaukee 1 Wisc 43-44 Milwaukee Resistor Co	4700 Wissahickon Ave Philadelphia 44 Pa 26	6200 E 41 St Tulsa 1 Okla 9
700 W Virginia St	Philips Electronics Inc	Sensitive Research Instrument Corp 310 Main St New Rochelle NY 20-22-37-50
Milwaukee 4 Wisc 38	750 S Fulton Ave Mt Vernon NY 39	OLO MARIE NO TIEM TOCHER ILL MARIE DA

Servo Corp of America	m	
2020 Jericho Turnpike	Transonic Inc _ 808 16 St Bakersfield Calif 19	Acton Laboratories
New Hyde Park NY 5-18-20-34	Trans-Tel Corp	533 Main St Acton Mass Airmec Ltd
Servomechanisms Inc	736 N Highland Ave Los Angeles 38 Calif 16	High Wycombe Buckinghamshire England
12500 Aviation Blvd Hawthorne Calif 34-46	Tripi-1 Electronics Co	American Instrument Co
Servonic Instruments Inc	Box 5352 Pasadena Calif	8030 Georgia Ave Silver Spring Md
1145 S Fair Oaks Ave Pasadena 2 Calif 46 Servonics Inc	Trop-Artic Inc	American Machine & Foundry Co
	637 S Mulberry St Muncie Ind 6	Defense Products Group
822 N Henry St Alexandria Va 21-34 Servo-Recording Instruments Inc	Tuttle & Kift Inc	1101 N Royal St Alexandria Vt
1815 W Van Buren St Phoenix Ariz 30	1823 N Monitor Ave Chicago 39 Ill 43	Bassett Inc Rex
Shasta Div Beckman Instruments Inc	TV Specialty Co	1314 N E 17 Ct Ft Lauderdale Fla
PO Box 296 Station A	350 W 31 St New York 1 NY 9 Ultradyne Eng'g Labs	Boonton Electronics Corp
Richmond Calif	D O D 0000 A 11	738 Speedwell Ave Morris Plains NJ
Shepard Labs Inc	Underwood Corp Electronic Computer Div	Calidyne Co 120 Cross St Winchester Mass
480 Morris Ave Summit NJ 27-34		Cambridge Instrument Co
Sierra Electronic Corp	Union Switch & Signal Div	Grand Central Terminal
3885 Bohannon Dr	Westinghouse Air Brake Co	New York 17 NY 3-5-
Menlo Park Calif	Braddock Ave Pittsburgh 18 Pa 10	Collins Radio Co
Simpson Electric Co	United Transformer Corp Pacific Div	855 35 St N E Cedar Rapids Iowa
5200 W Kinzie St Chicago 44 Ill 29-13 Skiatron Electronics & TV Corp	4008 W Jefferson Blvd	Davenport Mfg Co
180 Varick St New York 14 NY 20-21-27-31	Los Angeles 16 Calif 17	1713 N Ashland Ave Chicago 22 Ill
Solar Mfg Corp	Universal Atomics Corp	DeMorney-Bonardi Corp
4553 Seville Ave Los Angeles 50 Calif	50 Bond St Westbury LI NY 16	780 S Arroyo Pkwy Pasadena Calif D & R Ltd
Solartron Electronic Group Ltd	Uniwave Inc	402 E Gutierree St Santa Barbara Calif
Queens Rd Thames Ditton	2 Marine St Farmingdale NY 3-29-35	
Surrey England 1 20 20 24	Vacuum Tube Products Co	Eastern Precision Resistor Corp
Sonar Radio Corp	506 S Cleveland St Oceanside Calif 28-43 Varian Associates	675 Barbey St Brooklyn 7 NY Engineering Associates
3050 W 21 St Brooklyn 24 NY 18	C11 TT 177 TO 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	434 Patterson Rd Dayton 9 Ohio
Sound Apparatus Co	Varo Mfg Co	Fecker Inc J W
Stirling NJ Spencer-Kennedy Labs Inc 32	9901 W 1	6592 Hamilton Ave Pittsburgh 6 Pa
1320 Soldiers Field Rd Boston 35 Mass 19	Vectron Inc 16-20-48	Federal Telephone & Radio Co
Sperry Gyroscope Co Div Sperry Rand Corp	1611 Trapelo Rd Waltham 54 Mass 20-26-31	Div IT&T 100 Kingsland Rd Clifton NJ 1-
Great Neck IN 1 A 19 90 90 01 00	Vibra Seal Corp	Foto-Video Labs Inc
Sprague Electric Co	2832 E Grand Blvd Detroit 11 Mich 43	25 Amity St Little Falls NJ 4-
Marshall St North Adams Mass	Vibration Research Labs	Frequency Standards Inc
Standard Electronics Div	97 Lake Ave Tuckahoe NY 22	PO Box 504 Asbury Park NJ
Radio Engly Labe	Vidaire Electronics Mfg Corn	Gaertner Scientific Corp
30th & Borden Sts Long Joland City NIV 00	576 W Merrick Rd Lynbrook NY 3	1250 Wrightwood Ave Chicago 14 Ill
	Vought Co	General Radio Co
12401 W Olympic Blvd	P O Box 1350 Beverly Hills Calif 9	275 Massachusetts Ave
Los Angeles 64 Calif Stavid Eng'g Inc 46	Wabash Metal Products Co	Cambridge 39 Mass 1-2-3-' Gertsch Products Inc
Staviu Elig & Inc	1569 Morris St Wabash Ind 43	
US Route 22 Plainfield NJ Stephens Tru-sonic Inc	WacLine Inc 35 S St Clair St	11846 Mississippi Ave Los Angeles 25 Calif Gray Instrument Co
5055 Warner Dr Culves Cit. C 114	The state of the s	200 E Church Lane Philadelphia 44 Pa
Dicwait Warner Electronics Di.	Waldorf Instrument Co Div F C Huyck & Sons	Hamilton Watch Co Allied Products Div
	Park Ave Huntington Station NY 26-31-34	Columbia Ave Lancaster Pa
	Walkirt Co	Hewlett-Packard Co
27 Park Pl New Yould 7 NIV	141 W Hazel St Inglewood 3 Calif 20	275 Page Mill Rd Palo Alto Calif
Studiart Aircraft Radio Co	Walsco Electronics Mfg Co	Hill Electronic Eng'g & Mfg Co
6644 Santa Monica Blvd	100 W Green St Rockford Ill 3	New Kingstown Pa
Hollywood 38 Calif Sullivan Ltd H W 3	Waltham Watch Co	Hupp Instru/mation Co
80 Shore Rd	221 Crescent St Waltham 54 Mass 10-11	2119 Sepulveda Blvd Los Angeles 25 Calif 2
Port Washington NV	Waugh Eng'g Co	Hycon Eastern Inc
Sylvania Electric Droduct I	7842 Burnet Ave Van Nuys Calif 16	75 Cambridge Pkwy Cambridge 42 Mass 2
1140 Droadway New York to My	Waveline Inc	Industrial Test Equipment Co
	Passaic Ave Caldwell NJ 26-29-31-50	55 E 11 St New York 3 NY 2-4
2055 Concord Blvd	Weinschel Eng'g 10503 Metropolitan Ave Kensington Md 3	Julie Research Labs 556 W 168 St New York 32 NY 5
Concord Calif	Welch Mfg Co W M	Kintel (Kay Lab)
Iakk Corp	1515 Sedgwick St Chicago 10 Ill 39	5725 Kearny Villa Rd San Diego 12 Calif
PO Box 346 Newark Ohio Taller & Council	Welwyn Int'l Inc	Knights Co James
	3355 Edgecliff Terrace Cleveland 11 Ohio 38	Church & Wells Sts Sandwich Ill 2
75 Front St Brooklyn 1 NY Tatnall Measuring Systems Co Kimberton Rd Physics 11 Co	Westbury Electronics Inc	Lavoie Labs Inc
Kimberton Rd Phoenixville Pa	300 Shames Dr Westbury NY 3	Matawan-Freehold Rd Morganville NJ 2
* Cumical Appliance Com	West Coast Research Corp	Leeds & Northrup Co
	2371 ½ Westwood Blvd	4970 Stenton Ave Philadelphia 44 Pa 1-5
reconscraft Labe Inc	Los Angeles 64 Calif 28-30-34 West Instrument Corp	Manning Maxwell & Moore Inc Shelter Rock Lane Danbury Conn 8
Inomaston-Waterbury Rd		Manson Laboratories Inc
Illomaston Conn	Westinghouse Electric Corp 43 W Montrose Ave Chicago 41 Ill 43	207 Greenwich Ave Stamford Conn 2
	P O Box 868 Pittsburgh 30 Pa 42-43-46	Marconi Instruments Ltd
1952 E Allegheny Ave Philadelphia 34 Pa 17	Weston Electrical Instrument Corp	44 New St New York 4 NY 2
Telechrome Mfg Corp 28 Ranick Dr	Sub Daystrom Inc	Metronix Inc
A 7: 115 m =	614 Frelinghuysen Ave	Mill Lane Waterford Conn 2
Telectro Industries Com	Newark 12 NJ 42-43	Moeller Instrument Co
35-18 37 St Long Island City a service	Westronics Inc	132-02 89 Ave Richmond Hill 18 NY 6
relegiann Condenser Co	3605 McCart Ft Worth Texas 20-29	Muirhead Instruments Inc
N Acton London W 2 Email 1	Wheeler Labs Inc	677 5 Ave New York 22 NY 1-2-5-8
Telematic Industries Inc	122 Cutter Mill Rd Great Neck NY 26	Norrman Laboratories Ernst Williams Bay Wis 2-7
16 Howard Ave Brooklyn 7 NV	White Electron Devices Inc Roger	Williams Bay Wis 2-7 Packard Bell Electronics Corp
relephonics Corn	92 4 Ave Haskell NJ 26 Whitewater Electronics Inc	12333 W Olympic Blvd
Park Ave Huntington LI NY 18-47		
reletronics Lab Inc	136 Main St Whitewater Wisc 17 Wiancko Eng'g Co	Los Angeles 64 Calif 7 Philamon Labs Inc
54 Kinkel St Westbury NY 7-20-29-30	255 Halstead St Pasadena Calif 28-46	90 Hopper St Westbury LI NY 2
rei-instrument Electronics Corn	Winkler Labs 5225 N 20 St Phoenix Ariz 29	Polytechnic Research & Development Co
728 Garden St Carlstadt NJ 29	Workman TV Inc	202 Tillary St Brooklyn 1 NY 2
Felonic Industries Inc	309 Queen Anne Rd Teaneck NJ 38	Radiation Inc
73 N 2 Ave Beech Grove Ind 7 Semperature Eng'g Corp	Wyeth Engig Inc	P O Box 37 Melbourne Fla 8
II S Harr 120 Dimental NY	9911 Walden Pkwy Chicago 43 Ill 19	Radio Frequency Labs Inc Boonton NJ 28
Fenney Eng'g Inc		Resistance Products Co
1090 Springfield Rd Union NJ 6		914 S 13 St Harrisburg Pa 5
lexas Instruments Inc	45MEASUREMENT & TEST	Riverbank Labs Eng'g Dept P O Box 65 Geneva III 2
6000 Lemmon Ave Dollog 0 Towns 00 or		Scientific-Atlanta Inc
lexas Instruments Inc	EQUIPMENT	2162 Piedmont Rd N E Atlanta 9 Ga 2
Industrial Instrumentation Div	STANDARDS	Sensitive Research Instrument Corp
3609 Buffalo Speedway Houston 6 Texas 9		310 Main St New Rochelle NY 5-8
inale Engig Corp	Standards, capacitance 1	Sperry Gyroscope Co Div Sperry Rand Corp
2104 E Villa St Pasadena Calif 33	Standards, frequency 2	Great Neck NY 2
Chermo Electric Co	Standards, inductance 3	Sullivan Ltd H W
109 5 St Saddle Brook NJ 43 Topp Industries Inc	Standards, phase 4	80 Shore Rd Port Washington NY 1-2-3-5-7
FOFF IV 100 GL T		Systron Corp
5255 W 102 St Los Angeles 45 Calif 34 Frad Electronics Corp	Standards, resistance 5	2055 Concord Blvd Concord Calif 2-7 Teletronics Lab Inc
1001 1 Ave Asbury Park N.I 3	Standards, temperature 6	54 Kinkel St Westbury NY 2
ransitron Inc	Standards, time 7	Times Facsimile Corp
186 Granite St Manchester NH 3-20	Standards, voltage 8	

Transitron Inc	Calif Technical Industries	Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif 26
186 Granite St Manchester NH 2 Varo Mfg Co	1421 Old County Rd Belmont 10 Calif 26 Campbell X-Ray Corp	High Voltage Eng'g Corp Burlington Mass
2201 Walnut St Garland Texas 2	110 Commington St Boston 15 Mass 25-26	Holland Electronics 2133 Central Dr S East Meadow NY 5
Walkirt Co 141 W Hazel St Inglewood 3 Calif 2	Cambridge Instrument Co Grand Central Terminal	
Waltham Watch Co 221 Crescent St Waltham 54 Mass 7	New York 17 NY 5-21	3640 Woodland Ave Baltimore 7 Md 26 Houston Fearless Div Color Corp of America
Winder Aircraft Corp of Florida P O Box 2397 Drane Field Lakeland Fla 1	Canoga Corp 5955 Sepulveda Blvd Van Nuys Calif 26	Los Angeles 64 Calif
• • • • • • • • • • • • • • • • • • • •	Cavitron Electron Oscillator Co Div Short Wave Plastic Forming	Instrumentation Associates
46-MEDICAL ELECTRONIC	355 N Newport Blvd Newport Beach Calif 23	New York 23 NY
EQUIPMENT	Central Scientific Co of Calif	703 S Main St Burbank Calif 1-T-E Circuit Breaker Co
Ballistocardiographs 1	1040 Martin Ave Santa Clara Calif Century Coil Corp	Special Products Div 601 E Erie Ave Philadelphia 34 Pa 26
Blood pressure recorders 2	1534 N Clybourn Ave Chicago 10 Ill 25 CG Electronics Corp	IVM Engig Co
Diathermy accessories 3	305 Dallas St NE Albuquerque New Mex 25 Clegg Labs Div Clegg Inc	Voy Electric Co
Diathermy equipment 4 Electro cardiographs 5	Ridgedale Ave Morristown NJ 26 Continental X-Ray Corp	14 Maple Ave Pine Brook NJ
Electro cauterizers 6 Flectro encephalographs 7	1536 N Clybourn Ave Chicago 10 Ill 13-25 Corbett Science Labs F W	14844 Oxnard St Van Nuys Calif Keithley Instruments Inc
Electro encephalographs 7 Electro mygraphs 8	3117 Venice Blvd	12415 Euclid Ave Cleveland 6 Unio 23
Electro sedative generators 9	Dale Roisen Co	Lab-Tronics Inc 3656 N Lincoln Ave Chicago 13 Ill 11-22
Electro shock machines 10 Electro surgical equip 11	2928 Nebraska Ave Santa Monica Calif 15 Dale Products Inc Columbus Nebr 26	Lambda-Pacific Eng'g Inc
Epilators	Dallons Labs 5066 Santa Monica Blvd 3-4-5-11-	Land-Air Inc Instrument & Electronic Div 2133 Adams Ave San Leandro Calif 26
Fluorescent machines 13 Germicidal lamps	Los Angeles 29 Calif 12-14-15-22-23	Land-Air Inc 7444 W Wilson Ave Chicago 31 Ill 25
Heating elements 15	DeMornay-Bonardi Corp 780 S Arroyo Pkwy Pasadena Calif 26	Landsverk Electrometer Co 550 W Garfield Ave Glendale 4 Calif 20
Hemoglobino meters 16 Microscopes, electron 17	Diamond Antenna & Microwave Corp 7 North Ave Wakefield Mass 26	Lavoie Labs Inc Matawan-Freehold Rd Morganville NJ 26
Oscillometers 18	Douglas Microwave Co 252 E 3 St Mt Vernon NY 26	Levinthal Electronic Products Inc 3180 Hanover St Palo Alto Calif 10-11
Psychogalvanometers 19 Radioactivity equip 20	Du Mont Labs Inc Allen B 760 Bloomfield Ave Cliton NJ 26	Liebel-Flarsheim Co 111 E Amity Rd Cincinnati 15 Ohio 3-4-11-25
Stethographs & stethophones 21	Eastman Kodak Co 343 State St Rochester 4 NY 26	Litton Industries of Calif 336 N Foothill Rd Beverly Hills Calif 25
Stimulators	Eherline Instrument Div Reynolds Electrical	Litton Industries of Md Inc 4910 Calvert Rd College Park Md 24
Ultrosonic equip	Electrodyne Co	McDowell Electronics Inc
X-ray equipment 25	Electro-Flex Heat Inc	Mack Electronics Div Inc Sub Mack Trucks
X-ray equipment, photographic. 26	Electro-Medical Lab Inc	Manson Laboratories Inc
Acoustica Associates Shore Rd Glenwood Landing LI NY 20-23	S Woodstock 10 Vt 7-8-19-21-22 El-Tronics Inc Penn Ave Mayfield Pa 20	Marconi Instruments Ltd
Admittance Namco Corp Marine St Farmingdale LI NY 26	Ercona Corp 551 5 Ave New York 17 NY 17-26	Measurement Eng'g Ltd
Airborne Electronics Co	Farrand Controls Inc	232 John St Arnprior Ontario Can Medcraft Electronic Corp
6813 Troost Ave N Hollywood Calif Aircom Inc	Federal Mfg & Eng'g Corp	426 Great East Neck Rd Babylon NY 7-8-10-11-22-23
1209 E Grand St Elizabeth NJ 26 Alcar Instruments Inc	Federal Telephone & Radio Co	Menlo Research Lab 538 Phelan Ave San Jose Calif 20
17 Industrial Ave Little Ferry NJ 4-23 Aloe Scientific	Div IT&T 100 Kingsland Rd Clifton NJ 26 Fischer & Co H G	Meridian Metalcraft Inc 8739 S Millergrove Dr Whittier Calif 26
5655 Kingsbury Blvd St Louis 12 Mo 2-14 Amerac Inc 116 Topsfield Rd Wenham Mass 26	9451 W Belmont Ave Franklin Park III 3-4-23-25	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-5-7
American Electronic Laboratories 121 N 7 St Philadelphia 6 Pa 22	Fischer & Co R A 517 Commercial St Glendale 3 Calif 3-4	Modern Laboratory Equip Co 1811 1 Ave New York 28 NY
American Machine & Foundry Co	Fisher Scientific Co 711 Forbes St Pittsburgh 22 Pa 16	Mooradian High Frequency Labs 13 E Ft Lee Rd Bogota NJ 3-4-11-22
Defense Products Group 1101 N Royal St Alexandria Va 20-26	Frequency Standards Inc PO Box 504 Asbury Park NJ 26	Moran Instrument Corp 170 E Orange Grove Ave Pasadena 3 Calif 20
American Mica Insulation Co 235 Parker Ave Manasquan NJ 15	Enjoy Instrument Div Bendix Aviation Corp	National Spectrographic Labs Inc
American Microwave Corp 11754 Vose St N Hollywood Calif 26	F-R Machine Works Inc	National X-Ray Products Corp
American Scientific Co 1295 Grand Concourse New York 52 NY 10	Electronic & X-Ray Div 26-12 Borough Pl Woodside 77 NY 25-26	Neumade Products Corp
Anton Electronic Labs 1226 Flushing Ave Brooklyn 6 NY 20	Gardiner Electronics Co 2545 E Indian School Rd Phoenix Ariz 20	Nevada Air Products Co
Apparatus Development Co 115 Main St Wethersfield 9 Conn 21	General Bronze Corp 711 Stewart Ave Garden City NY 26	P O Box 2472 Reno Nev 7-11-19-20-22-23-26 New England Nuclear Corp 575 Alberty St Boston 18 Mass 20
Art Specialty Co 3245 W Lake St Chicago 24 Ill 14	General Communication Co 677 Beacon St Boston 15 Mass 26	Norco Mfg Co
Authorized Mfrs Service Co	Conoral Crystal Co	392 Bleecker St New York 14 NY Northeastern Eng'g Inc
Aviation Electronic Service	P O Box 9 Burlington Wis General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY	25 S Bedford St Manchester NH 26 NRD Instrument Co
N 12 St Wheeling Ill 9-10-22 Balteau Electric Corp	General Electric Co X-Ray Dept	6425 Etzel Ave St Louis 14 Mo Nuclear-Chicago Corp
New and Meadow Sts Stamford Conn 24-25-26	4855 Electric Ave Milwaukee 1 Wis 5-24-25-26	223 W Erie St Chicago 10 Ill 20 Nuclear-Electronics Corp
Baird-Atomic Inc 33 University Rd Cambridge 38 Mass 26	General RF Fittings Inc 702 Beacon St Boston 15 Mass 3	2632 W Cumberland St Philadelphia 32 Pa 20-23
Barkley & Dexter Labs 50 Frankfort St Fitchburg Mass 20	G & M Equipment Co 7315 Varna Ave N Hollywood Calif 26	Offner Electronics Inc 5320 N Kedzie Ave Chicago 25 Ill 2-7-8-19
Bendix Aviation Corp	Gorrell & Gorrell 336 Old Hook Rd Westwood NJ 22	Omega Labs Inc Haverhill St Rowley Mass 26
Biophysical Instruments Inc	Graflex Inc 154 Clarissa St Rochester 8 NY 26	Philoe Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa 25
20 Herman St Philadelphia 44 Pa 2-5-22-25 Birnbach Radio Co	Grason-Stadler Co W Concord Mass	Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY 17-26
145 Hudson St New York 13 NY 3 Black Light Corp of America	Gulton Industries Inc 212 Durham Ave Metuchen NJ 2-23	Photovolt Corp 95 Madison Ave New York 16 NY 16
5114 Walnut Grove Ave San Gabriel Calif	Hall Sonic Eng'g Co	Photron Instrument Co 6516 Detroit Ave Cleveland 2 Ohio 2
Black Light Eastern Corp 33-00 Northern Blvd	Hamilton Watch Co Allied Products Div Columbia Ave Lancaster Pa	Polarad Electronics Corp
Long Island City 1 NY Blaine Electronetics Inc	Hamner Electronics Co Princeton NJ 20	Polytechnic Research & Development Co
14757 Keswick St Van Nuys Calif Bolton Labs Inc W Main St Bolton Mass 26	Hanovia Chemical & Mfg Co 100 Chestnut St Newark 5 NJ 14	Press Wireless Labs Inc
Bruno-New York Industries Corp	Harshaw Chemical Co	25 Prospect Pl W Newton 65 Mass 26
Burdick Corp	Hathaway Instrument Div Hamilton Watch Co 5800 E Jewell Ave Denver 22 Colo 2	Process & Instruments 15 Stone Ave Brooklyn 33 NY 7-8-11
635 Plumb St Milton Wisc 3-4-5-10-11-23	20 0000	

Profexray Inc 1401 N 1 Ave Maywood Ill 25 Radar Design Corp	Diamonds 3 Graphite 4	Belmont Smelting & Refining Works 330 Belmont Ave 6-7-8-9-13-14-15-16-18-19
210 5 Ave New York 16 NY 26 Radiation Inc	METALS	Brooklyn 7 NY 23-28-29-30-31-32-33-34 35-42-46-47-49-50-51-53-54 Bennett & Co Paul
P O Box 37 Melbourne Fla Raytheon Mfg Co	Alnico 5	230 E Ohio St Chicago 11 Ill 3 Beryllium Corp
100 River St Waltham 54 Mass 3-4-5 Raytheon Mfg Co Commercial Equip Div 100 River St Waltham 54 Mass 23	Aluminum	Tuckerton Rd Reading Pa 10 Bethlehem Apparatus Co
Resitron Labs Inc 2908 Nebraska Ave	Arsenic	Front & Depot Sts Hellertown Pa 32 Bios Labs Inc 1-2-4-5-6-7-8-9-10-11
Santa Monica Calif 21-25-26 Richardson Labs Kenneth	Beryllium 10	17 W 60 St 13-14-15-16-17-18-19-21 New York 23 NY 23-24-25-26-31-32-33-34
254 Vincent Ave Lynbrook NY 9-24 Ronar Inc	Boron	35-36-38-39-41-42-43-44-46-48-49-50-51-53-54 Birnbach Radio Co
1316 Sherman Ave Evanston III 21 Sage Labs Inc	Bronze	145 Hudson St New York 13 NY Bishop & Co Platinum Works J
30 Guinan St Waltham 54 Mass 26 Sampson Chemical & Pigment Corp	Cadmium 15	Malvern Pa 24-36-41 Blaco Mfg Co 6541 Euclid Ave Cleveland 3 Ohio
2830 W Lake St Chicago 12 III 14 Sanborn Co	Calcium	Bow Solder Products Co 251 Freeman St Brooklyn 22 NY 28-49
175 Wyman St Waltham 54 Mass Scientific Glass Apparatus Co 100 Lakewood Terrace Bloomfield NJ 16	Chromium	Bradley Mining Co 660 Market St San Francisco 4 Calif 7-32
Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz 20	Columbium	Bram Chemical Co 1-5-6-7-8-9-10-11 Metals & Minerals Div 12-13-14-15-16-17
Queens Rd	Copper 21 Ferrites 22	820 65 Ave 18-19-20-21-23-21 Philadelphia 26 Pa 29-30-31-32-23-21 35-36-39-41-42-45-46-47-50-51-54
Thames Ditton Surrey England 26 Sperry Gyroscope Co Div Sperry Rand Corp	Germanium	Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn 12-13-14-21
Steiner-Ives Co	Iron 25	Brooks & Perkins Inc 1950 W Fort St Detroit 16 Mich 30
Springfield Rd Union NJ 15 Stoelting Co C H 424 N Homan Ave Chicago 24 III 2-19-22	Iron oxide	Brush Beryllium Co 4301 Perkins Ave Cleveland 3 Ohio
Sylvania Electric Products Inc	Lead & alloys	Burroughs Corp 6071 2 Ave Detroit 32 Mich 47
Teca Corp  80 Main St White Plains NY  8-22	Manganese alloys	Canadian Radium & Uranium Corp 630 5 Ave New York 20 NY 37-38 Cannon Muskegon Corp
Technicraft Labs Inc Thomaston-Waterbury Rd	Manganese	Box 506 Muskegon Mich Carborundum Metals Co Div Carborundum
Thomaston Conn Tech-Ohm Resistor Corn	Molybdenum	Co P O Box 32 Akron NY 54 Carpenter Steel Co
36-11 33 St Long Island City 6 NY Telechrome Mfg Corp	Nickel	Front & Bern Sts Reading Pa Cerro De Pasco Sales Corp
28 Ranick Dr Amityville LI NY Telectro Industries Corp 35-18 37 St Long Island City 1 NY 20	Polonium 37	300 Park Ave New York 22 NY Chase Brass & Copper Co 236 Grand St
30-16 of St Long Island City 1 NY 20 Telemarine Communications Co 3040 W 21 St Brooklyn 24 NY 26	Radium	Waterbury 20 Conn 12-13-14-21-44-49 Chromium Corp of America
Telephonics Corp Park Ave Huntington LI NY 28	Silver	P O Box 1229 Waterbury 20 Conn 21-35 City Chemical Corp 1-2-7-8-9-10-11-15-16-17
Temperature Eng'g Corp US Hwy 130 Riverton NJ 15	Steel, metal coated 43	132 W 22 St 19-21-23-29-32-33-35-36 New York 11 NY 39-46-47-48-49-50-53-54 Colonial Alloys Co
Thomas Instrument Co Phoenix NY 25	Steel, stainless	Ridge Ave & Crawford St Philadelphia 29 Pa
Topp Industries Inc 5255 W 102 St Los Angeles 45 Calif 26 Tracerlab Inc	Tantalum	Columbia Wire & Supply Co
1601 Trapelo Rd Waltham 54 Mass 20 Transitron Inc	Thorium	380 Madison Ave New York 17 NV
186 Granite St Manchester NH 26 Trott Electronics Inc	<u>T</u> itanium 50	Communication Accessories Co  110 St & 71 Hwy Hickman Mills Mo Copperweld Steel Co Wire & Cable Div
412 Smith St Rochester 6 NY 10 TV Specialty Co	Tungsten 51 Uranium 52	Cross Co H
350 W 31 St New York 1 NY 24-25-26 United Aircraft Products Inc	Zinc 53 Zirconium 54	15 Beekman St New York 38 NY Crucible Steel Co of America Henry W
1116 Bolander Ave Dayton 8 Ohio 15 Universal Atomics Corp		Davis-K-Products Co
50 Bond St Westbury LI NY 20 Universal X-Ray Products Inc	Acheson Colloids Co 1635 Washington Ave Port Huron Mich 4 Aerovox Corp Crowley Div	135 W 29 St New York 1 NY 24-39-41 Davison Chemical Co
1140 N Western Ave Chicago 22 Ill 25-26 Uniwave Inc	1 Central Ave W Orange NJ 22 Aitron Inc	Box 488 Pompton Plains NJ Delta Chemical Works 1-2-4-5-6-7-8-9-10-11 23 W 60 St 13-14-15-16-17-18-19-21-23
2 Marine St Farmingdale NY 26 U S Radium Corp Morristown NJ 20	1101 W Elizabeth Ave Linden NJ 22 Allegheny Ludlum Steel Corp	New York 23 NY 24-25-26-31-32-33-34-35-36
Vectron Inc 1611 Trapelo Rd Waltham 54 Mass 26	Oliver Bldg Pittsburgh 22 Pa 1-44 Allen-Bradley Co	244 Madison Ave New York 16 MV
Volk Radiochemical Co 5412 N Clark St Chicago 40 III 20	136 W Greenfield Ave Milwaukee 4 Wis 22 Aloe Scientific 5655 Kingsbury Blvd 4-7-8-9-18-19-24-25	Dixon Crucible Co Joseph 167 Wayne St Jersey City 3 NJ Dow Chemical Co
Vulcan Electric Co 88 Holten St Danvers Mass	St Louis 12 Mo 26-27-32-33-35-52-53-54 Alpha Metals Inc	Midland Mich Driver Co Wilbur B
WacLine Inc 35 S St Clair St Dayton 2 Ohio Wappler Inc	56 Water St Jersey City 4 NJ 10-24-28-49 Aluminum Co of America	1875 McCarter Hwy Newark 4 NJ 27-34-35-44
27-10 Astoria Blvd Long Island City 2 NY 3-6-11-22	Alcoa Bldg Pittsburgh 19 Pa 6-30 Ameray Corp Route 46 Kenvil NJ 28	Driver-Harris Co Harrison NJ
Watlow Electric Mfg Co 1376 Ferguson Ave St Louis 14 Mo 15	American Metal Co 61 Broadway 8-15-21-23-24-28-36	Wilmington 98 Del 50
Waveline Inc Passaic Ave Caldwell NJ 26	New York 6 NY 39-41-42-47-49-53 American Platinum Works	Eagle-Picher Co American Bldg Parkway & Walnut
Wave Particle Corp P O Box 252 Menlo Park Calif 26	231 NJ RR Ave Newark 5 NJ 41-42 American Silver Co	Cincinnati 2 Ohio Eastern Rolling Mills
White Electron Devices Inc Roger 92 4 Ave Haskell NJ 26	3607 Prince St Flushing 54 NY 13-14-21-35-41-44-46-50-54 Amplex Div Chrysler Corp	1126 E 180 St New York 60 NY Eastern Smelting & Refining Corp 109 W Brookline St
Wiegand Co Edwin L 7500 Thomas Blyd Pittsburgh 8 Pa Wood Counter Leb N	P O Box 2718 Detroit 31 Mich 13-21-41-42 Anchor Metal Co	Boston 18 Mass 24-36-41-42 Eisler Eng'g Co
Wood Counter Lab N 1525 E 53 St Chicago 15 Ill 20 Woodwelding Inc	966 Meeker Ave Brooklyn 22 NY 41-42-53 Anderson Associates H V	750 S 13 St Newark 3 NJ Electro Metallurgical Co Div Union
355 N Newport Blvd Newport Beach Calif 23 X-Ray Mfg Corp of America	233 Broad St Summit NJ 41 Armco Steel Corp 703 Curtis St	Carbide & Carbon 30 E 42 St New York 17 NY 18-31-50
1750 Plaza Ave New Hyde Park NY 25	Middletown Ohio Attleboro Refining Co	Electronic Parts Mfg Co 508 25 St Union City NJ 33-35-51
47—METALS	36 Union St Attleboro Mass  Baker & Co 113 Astor St	Elgin National Watch Co 107 National St Elgin Ill 3
<del>-</del>	Newark 2 NJ 24-36-39-42 Baldwin Products Corp	Fansteel Metallurgical Corp 2200 Sheridan Rd N Chicago III 20-33-46-51
Carbides	432 E Valley Blvd San Gabriel Calif Barker Sales Co 996 Edgewater Ave Ridgefield NJ 5	Federated Metals Div American Smelting & Refining Co 7-8-13-15-21
	Tries Tries Current 149	120 Broadway New York 5 NY 28-41-47-49-53

First Stanling Inc	Metz Refining Co.	Technic Inc
Firth Sterling Inc 3113 Forbes St	369 Mulberry St Newark 2 NJ 24-41-42	39 Snow St Providence 3 RI 24-39 Technicraft Labs Inc
Pittsburgh 13 Pa 1-44-50-54 Fish-Schurman Corp	Microwave Associates Inc Burlington Mass 22	Thomaston-Waterbury Rd
70 Portman Rd New Rochelle NY 3	Miller Dial & Nameplate Co	Torris Div Consolidated Sinhon Supply Co
Foote Mineral Co 18 W Chelten Ave	4400 N Temple City Blvd El Monte Calif 38 Monsanto Chemical Co	22 Wooster St New York 13 NY
Philadelphia 44 Pa 29-31-45-50-54	1700 S 2 St St Louis 4 Mo 2 Murex Ltd	Thermal Refractories Corp 4501 Dell Ave N Bergen NJ 10-46
Fort Wayne Metals Inc 3211 MacArthur Dr Ft Wayne 6 Ind 44	Rainham Essex England 1-20-33-46-51-54	Thermo Materials Inc. 4040 Campbell Ave Menlo Park Calif 22
Gar Precision Parts Inc	National Carbon Co Div Union Carbide & Carbon	Tricon Mfg Co
703 Pacific St Stamford Conn 35	30 E 42 St New York 17 NY 2-4	8012 Wallace St Chicago 20 Ill 36-41-42 Uniform Tubes Inc
General Ceramics Corp Keasbey NJ 22	National Moldite Co 1410 Chestnut St Hillside 5 NJ 22-26	Level Rd Collegeville 2 Pa 6-12-21
General Electric Co	National-Standard Co	Union Carbide Nuclear Co Div Union Carbide & Carbon
Box 237 Roosevelt Park Annex Detroit 32 Mich 1-3-5	Niles Mich 43-44-50 New Jersey Zinc Co	30 E 42 St New York 17 NY 16-33-51-52
General Electric Co Lamp Wire &	160 Front St New York 38 NY 53	United Carbon Products Co PO Box 269 Bay City Mich
Phosphors Dept 1331 Chardon Rd Cleveland 17 Ohio 33-51	Ney Co J M P O Box 990 Hartford 1 Conn 41-42	United Mineral & Chemical Corp
General Electric Co Specialty	Norden-Ketay Corp Commerce Rd Stamford Conn 45	16 Hudson St New York 13 NY 10-23-31-32-49-54
Electronic Components Dept	North American Philips Co Elmet Div	US Dynamics Corp
W Genesee St Auburn NY 22 Gibson Electric Co	Lisbon Rd Lewiston Me 3-33-51 Norton Co	II S Graphite Co Div Wickes Corp
8317 Frankstown Ave	1 New Bond St Worcester 6 Mass 11	1621 Holland Ave Saginaw Mich 2-4
Pittsburgh 21 Pa 33-41-42-51 Glaser Lead Co	NRC Equipment Corp Sub National Research Corp	U S Steel Corp 525 William Penn Pl Pittsburgh 30 Pa 13-44
31 Wyekoff Ave	160 Charlemont St	Utility Brass & Copper Corp 255 Conover St Brooklyn 31 NY 6-12-13-14-21
Brooklyn 37 NY 28-49 Grafo Colloids Corp	Newton Highlands 61 Mass 54 Numberall Stamp & Tool Co	Vaculloy Corp
310 Wilkes Pl Sharon Pa	Huguenot Park Staten Island 12 NY 36	W Kemrow Ave Wooster Ohio Vacuum Metals Corp Div Crucible Steel Co
Graphik Circuits Div Cinch Mfg Corp 200 S Turnbull Canyon Rd	Ohio Carbon Co 12508 Berea Rd Cleveland 11 Ohio 2-4	P O Box 977 Syracuse 1 NY
La Puente Calif 15-21-24-39	Olin Mathieson Chemical Corp	Vitro Corp of America
Handy & Harman 82 Fulton St New York 38 NY 24-41-42	460 Park Ave New York 22 NY 6-12-14 Paul F H & Stein Bros	261 Madison Ave New York 16 NY 31-48-50-52-54
Harmon Lichtenstein & Co	235 5 Ave New York 16 NY 6-46	Wallingford Steel Co
26 Broadway New York 4 NY 15-23-28-53 Harper-Leader Inc	Penn Precision Products Inc 501 Crescent Ave Reading Pa 10-12-14-21	Valley St Wallingford Conn 44-50 Werner Co R D
1046 S Main St	Permag Corp 214 Taaffe Pl Brooklyn 5 NY 5	295 5 Ave New York 16 NY 6 Western Gold & Platinum Co
Waterbury 20 Conn 24-36-39-41 Harshaw Chemical Co	Pettinos Inc Charles	525 Harbor Blvd Belmont Calif 24-36-41-42
1945 E 97 St 2-4-7-8-9-15-16-18	1 E 42 St New York 17 NY Phalma Dadas Compan Broducts Comp	Westinghouse Electric Corp P O Box 868 Pittsburgh 30 Pa
Cleveland 6 Ohio 19-24-25-26-29-49-53 Hi Grade Alloy Corp	Phelps Dodge Copper Products Corp 300 Park Ave	Wildberg Bros Smelting & Refining Co
1236 S Talman Chicago 8 III 7-28-42	New York 22 NY 12-13-14-21 Phila Bronze & Brass Corp	742 Market St San Francisco 2 Calif 24-32-41-42
Hill Co C R 35 W Grand River Ave Detroit 26 Mich 32	Sub P R Mallory & Co Inc	Williams & Co C K
Hooper Chemical Corp	22 & Master Sts Philadelphia 21 Pa 2 1 Polymer Corp	640 N 13 St Easton Pa
P O Box 313 Rutherford NJ 15-20	2120 Fairmont Ave Reading Pa 22	Yale & Towne Powdered Metal Prods Div 9335 W Belmont Ave Franklin Park Ill 22
Indiana Steel & Wire Co 700 S Council St Muncie Ind 44	Poray Inc 3369 W Grand Ave Chicago 51 Ill 15	
Intelex Systems Inc	Precision Supply Co	AT A METALE
22 Thames St New York 6 NY 22 International Nickel Co	292 Belmont Ave Paterson 2 NJ 1-3	47-A-METALS
67 Wall St New York 5 NY 34-35	"Q" Glass Co	METAL STOCK
	470 Broad St Bloomfield NJ 27	
International Powder Metallurgy Co	Radium Chemical Co	
International Powder Metallurgy Co 439 W Main St Ridgway Pa Isotope Products	Radium Chemical Co 161 E 42 St New York 17 NY 38	Foil
International Powder Metallurgy Co 439 W Main St Ridgway Pa 13-14 Isotope Products 1711 Elmwood Ave Buffalo 7 NY 19	Radium Chemical Co       161 E 42 St New York 17 NY       38         Ray Proof Corp       513 W 54 St New York 19 NY       28-37	
International Powder Metallurgy Co 439 W Main St Ridgway Pa Isotope Products	Radium Chemical Co 161 E 42 St New York 17 NY 38 Ray Proof Corp	Foil       55         Porous bearing metal       56         Sheet       57         Spring contact       58
International Powder Metallurgy Co 439 W Main St Ridgway Pa 13-14 Isotope Products 1711 Elmwood Ave Buffalo 7 NY 19 Isotopes Specialties Co 703 S Main St Burbank Calif 37-38-45-48 Jelliff Mfg Corp C O	Radium Chemical Co       161 E 42 St New York 17 NY       38         Ray Proof Corp       38         513 W 54 St New York 19 NY       28-37         Raytheon Mfg Co Ceramic Sales       Foundry Ave Waltham Mass       22         Raytheon Mfg Co       22	Foil       55         Porous bearing metal       56         Sheet       57         Spring contact       58         Stampings       59
International Powder Metallurgy Co 439 W Main St Ridgway Pa 13-14 Isotope Products 1711 Elmwood Ave Buffalo 7 NY 19 Isotopes Specialties Co 703 S Main St Burbank Calif 37-38-45-48 Jelliff Mfg Corp C O Southport Conn 34-35	Radium Chemical Co       161 E 42 St New York 17 NY       38         Ray Proof Corp       513 W 54 St New York 19 NY       28-37         Raytheon Mfg Co Ceramic Sales       Foundry Ave Waltham Mass       22	Foil       55         Porous bearing metal       56         Sheet       57         Spring contact       58
International Powder Metallurgy Co 439 W Main St Ridgway Pa 13-14 Isotope Products 1711 Elmwood Ave Buffalo 7 NY 19 Isotopes Specialties Co 703 S Main St Burbank Calif 37-38-45-48 Jelliff Mfg Corp C O Southport Conn 34-35 Johnson Bronze Co S Mill St New Castle Pa 13-14	Radium Chemical Co 161 E 42 St New York 17 NY 38 Ray Proof Corp 513 W 54 St New York 19 NY 28-37 Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass 22 Raytheon Mfg Co Microwave & Power Tube Operations Foundry Ave Waltham Mass 22 Rembar Co	Foil       55         Porous bearing metal       56         Sheet       57         Spring contact       58         Stampings       59
International Powder Metallurgy Co 439 W Main St Ridgway Pa 13-14 Isotope Products 1711 Elmwood Ave Buffalo 7 NY 19 Isotopes Specialties Co 703 S Main St Burbank Calif 37-38-45-48 Jelliff Mfg Corp C O Southport Conn 34-35 Johnson Bronze Co S Mill St New Castle Pa 13-14 Johnston & Funk Titanium Corp	Radium Chemical Co       161 E 42 St New York 17 NY       38         Ray Proof Corp       513 W 54 St New York 19 NY       28-37         Raytheon Mfg Co Ceramic Sales       Foundry Ave Waltham Mass       22         Raytheon Mfg Co       Microwave & Power Tube Operations       Foundry Ave Waltham Mass       22         Rembar Co       147 Main St Dobbs Ferry NY       33-51         Rem-Cru Titanium Inc       33-51	Foil       55         Porous bearing metal       56         Sheet       57         Spring contact       58         Stampings       59         Thermostatic metal       60         SOLDER
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International Powder Metallurgy Co 439 W Main St Ridgway Pa 13-14 Isotope Products 1711 Elmwood Ave Buffalo 7 NY 19 Isotopes Specialties Co 703 S Main St Burbank Calif 37-38-45-48 Jelliff Mfg Corp C O Southport Conn 34-35 Johnson Bronze Co S Mill St New Castle Pa 13-14 Johnston & Funk Titanium Corp W Kemrow Ave Wooster Ohio 50 Johnston Foil Mfg Co	Radium Chemical Co 161 E 42 St New York 17 NY 38 Ray Proof Corp 513 W 54 St New York 19 NY Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass 22 Raytheon Mfg Co Microwave & Power Tube Operations Foundry Ave Waltham Mass 22 Rembar Co 147 Main St Dobbs Ferry NY 33-51 Rem-Cru Titanium Inc Midland Pa Republic Steel Corp Republic Bldg Cleveland 1 Ohio 25-43-44-50 Revere Copper & Brass Inc	Foil
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International Powder Metallurgy Co 439 W Main St Ridgway Pa 13-14 Isotope Products 1711 Elmwood Ave Buffalo 7 NY 19 Isotopes Specialties Co 703 S Main St Burbank Calif 37-38-45-48 Jelliff Mfg Corp C O Southport Conn 34-35 Johnson Bronze Co S Mill St New Castle Pa 13-14 Johnston & Funk Titanium Corp W Kemrow Ave Wooster Ohio Johnston Foil Mfg Co 6008 S Broadway St Louis 11 Mo Johnson Mfg Co Mt Vernon Iowa 15-49-53 Kelley & Co O G 98 Taylor St Boston 22 Mass King Labs Inc 127 Solar St Syracuse 3 NY 9-45 Kinney Co Joseph Locust St Carnegie Pa Kulite Tungsten Co 1040 Hoyt Ave Ridgefield NJ 19-51	Radium Chemical Co 161 E 42 St New York 17 NY 38 Ray Proof Corp 513 W 54 St New York 19 NY Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass 22 Raytheon Mfg Co Microwave & Power Tube Operations Foundry Ave Waltham Mass 22 Rembar Co 147 Main St Dobbs Ferry NY 33-51 Rem-Cru Titanium Inc Midland Pa Republic Steel Corp Republic Steel Corp Republic Steel Corp Rever Copper & Brass Inc 230 Park Ave New York 17 NY 21 Riverside-Alley Metal Div Porter Co H K 1 Pavilion Ave Riverside NJ 10-12-14-34-35-44 Romac Products Co 48-01 25 Ave Long Island City 3 NY 27 Rome Cable Corp Ridge St Rome NY Ryerson & Son Joseph T 16 & Rockwell Sts Chicago 8 III 6-43-44 Scientific Glass Apparatus Co	Foil
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International Powder Metallurgy Co  439 W Main St Ridgway Pa  13-14 Isotope Products  1711 Elmwood Ave Buffalo 7 NY  19 Isotopes Specialties Co  703 S Main St Burbank Calif 37-38-45-48 Jelliff Mfg Corp C O Southport Conn  Johnson Bronze Co S Mill St New Castle Pa Johnston & Funk Titanium Corp  W Kemrow Ave Wooster Ohio Johnson Mfg Co  6008 S Broadway St Louis 11 Mo Johnson Mfg Co Mt Vernon Iowa  Kelley & Co O G 98 Taylor St Boston 22 Mass  Kelley & Co O G 98 Taylor St Syracuse 3 NY  Sinney Co Joseph Locust St Carnegie Pa Kulite Tungsten Co 1040 Hoyt Ave Ridgefield NJ  Landsverk Electrometer Co 550 W Garfield Ave Glendale 4 Calif 38 Leach & Garner Co Industrial Div Leach & Garner Bldg Attleboro Mass  24-36-41-42	Radium Chemical Co	Foil
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International Powder Metallurgy Co  439 W Main St Ridgway Pa  13-14  Isotope Products  1711 Elmwood Ave Buffalo 7 NY 19  Isotopes Specialties Co  703 S Main St Burbank Calif 37-38-45-48  Jelliff Mfg Corp C O Southport Conn 34-35  Johnson Bronze Co S Mill St New Castle Pa Johnston & Funk Titanium Corp  W Kemrow Ave Wooster Ohio Johnston Foil Mfg Co 6008 S Broadway St Louis 11 Mo Johnson Mfg Co Mt Vernon Iowa 15-49-53  Kelley & Co O G 98 Taylor St Boston 22 Mass 28  King Labs Inc 127 Solar St Syracuse 3 NY 9-45  Kinney Co Joseph Locust St Carnegie Pa 43  Kulite Tungsten Co 1040 Hoyt Ave Ridgefield NJ 19-51  Landsverk Electrometer Co 550 W Garfield Ave Glendale 4 Calif 38  Leach & Garner Bldg Attleboro Mass 24-36-41-42  Leonard Electric Products Co 67 34 St Brooklyn 32 NY Linde Air Products Div Union Carbide & Carbon 30 E 42 St New York 17 NY Lithium Corp of America 2500 Rand Tower Minneapolis 2 Minn 29  Mackay Inc A D 1-2-4-7-8-9-10-11-13-15 198 Broadway 16-17-19-21-23-24-25-26  New York 38 NY 28-29-31-32-33-34-35-36	Radium Chemical Co 161 E 42 St New York 17 NY 38 Ray Proof Corp 513 W 54 St New York 19 NY 28-37 Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass 22 Raytheon Mfg Co Microwave & Power Tube Operations Foundry Ave Waltham Mass 22 Rembar Co 147 Main St Dobbs Ferry NY 33-51 Rem-Cru Titanium Inc Midland Pa 80 Republic Steel Corp Republic Steel Corp Republic Steel Corp Republic May Cleveland 1 Ohio 25-43-44-50 Revere Copper & Brass Inc 230 Park Ave New York 17 NY 21 Riverside-Alley Metal Div Porter Co H K 1 Pavilion Ave Riverside NJ 10-12-14-34-35-44 Romac Products Co 48-01 25 Ave Long Island City 3 NY 27 Rome Cable Corp Ridge St Rome NY Ryerson & Son Joseph T 16 & Rockwell Sts Chicago 8 Ill 6-43-44 Scientific Glass Apparatus Co 100 Lakewood Terrace 16-17-18- Bloomfield NJ 19-32 Scovill Mfg Co 99 Mill St Waterbury 20 Conn 6-12-13-14-21 Seager Standard Carbon Co 291 Church St New York 13 NY 2 Second Metals Corp 7 Intervale St White Plains NY 35-42-50 Seymour Mfg Co 015 Franklin St Seymour Conn 12-13-14 Shieldalloy Corp Newfield NJ 11-18-20-33-46 Somers Brass Co Baldwin Ave Waterbury Conn 12-13-14-21-34-35	Foil         55           Porous bearing metal         56           Sheet         57           Spring contact         58           Stampings         59           Thermostatic metal         60           SOLDER           Aluminum         61           Indium         62           Lead-tin         63           Printed circuit         64           Silver         65           TUBING           Aluminum         66           Asbestos         67           Brass         68           Ceramic         69           Copper         70           Glass fibre insulation         71           Glass precision         72           Metal alloy         73           Metal hose, flexible         74           Monel         75           Nickel         76           Paper         77           Phenolic         78           Plastic         79           Silver         80
International Powder Metallurgy Co  439 W Main St Ridgway Pa  13-14 Isotope Products  1711 Elmwood Ave Buffalo 7 NY 19 Isotopes Specialties Co  703 S Main St Burbank Calif 37-38-45-48 Jelliff Mfg Corp C O Southport Conn 34-35 Johnson Bronze Co S Mill St New Castle Pa 13-14 Johnston & Funk Titanium Corp W Kemrow Ave Wooster Ohio 50 Johnston Foil Mfg Co 6008 S Broadway St Louis 11 Mo 6 Johnson Mfg Co Mt Vernon Iowa 15-49-53 Kelley & Co O G 98 Taylor St Boston 22 Mass 28 King Labs Inc 127 Solar St Syracuse 3 NY 9-45 Kinney Co Joseph Locust St Carnegie Pa 43 Kulite Tungsten Co 1040 Hoyt Ave Ridgefield NJ 19-51 Landsverk Electrometer Co 550 W Garfield Ave Glendale 4 Calif 38 Leach & Garner Bldg Attleboro Mass 24-36-41-42 Leonard Electric Products Co 67 34 St Brooklyn 32 NY 22 Linde Air Products Div Union Carbide & Carbon 30 E 42 St New York 17 NY 16 Lithium Corp of America 2500 Rand Tower Minneapolis 2 Minn 29 Mackay Inc A D 1-2-4-7-8-9-10-11-13-15	Radium Chemical Co 161 E 42 St New York 17 NY 38 Ray Proof Corp 513 W 54 St New York 19 NY 28-37 Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass 22 Raytheon Mfg Co Microwave & Power Tube Operations Foundry Ave Waltham Mass 22 Rembar Co 147 Main St Dobbs Ferry NY 33-51 Rem-Cru Titanium Inc Midland Pa 8 Eepublic Steel Corp Republic Steel Corp Republic Steel Corp Republic May Cleveland 1 Ohio 25-43-44-50 Revere Copper & Brass Inc 230 Park Ave New York 17 NY 21 Riverside-Alley Metal Div Porter Co H K 1 Pavilion Ave Riverside NJ 10-12-14-34-35-44 Romac Products Co 48-01 25 Ave Long Island City 3 NY 27 Rome Cable Corp Ridge St Rome NY Ryerson & Son Joseph T 16 & Rockwell Sts Chicago 8 Ill 6-43-44 Scientific Glass Apparatus Co 100 Lakewood Terrace 16-17-18- Bloomfield NJ 19-32 Scovill Mfg Co 99 Mill St Waterbury 20 Conn 6-12-13-14-21 Seager Standard Carbon Co 291 Church St New York 13 NY 2 Secon Metals Corp 7 Intervale St White Plains NY 35-42-50 Seymour Mfg Co 15 Franklin St Seymour Conn 12-13-14 Shieldalloy Corp Newfield NJ 11-18-20-33-46 Somers Brass Co Baldwin Ave Waterbury Conn 12-13-14-21-34-35 Spinform Inc 65 Mechanic St Attleboro Mass	Foil
International Powder Metallurgy Co  439 W Main St Ridgway Pa  13-14  Isotope Products  1711 Elmwood Ave Buffalo 7 NY  19  Isotopes Specialties Co  703 S Main St Burbank Calif 37-38-45-48  Jelliff Mfg Corp C O Southport Conn  34-35  Johnson Bronze Co S Mill St New Castle Pa Johnston & Funk Titanium Corp  W Kemrow Ave Wooster Ohio  Johnson Mfg Co Mt Vernon Iowa  Selley & Co O G  98 Taylor St Boston 22 Mass  Kelley & Co O G  98 Taylor St Boston 22 Mass  King Labs Inc  127 Solar St Syracuse 3 NY  9-45  Kinney Co Joseph  Locust St Carnegie Pa  Kulite Tungsten Co  1040 Hoyt Ave Ridgefield NJ  Landswerk Electrometer Co  550 W Garfield Ave Glendale 4 Calif 38  Leach & Garner Bldg  Attleboro Mass  10-12-47-89-10-11-13-15  198 Broadway  10-12-47-89-10-11-13-15  198 Broadway  16-17-19-21-23-24-25-26  New York 38 NY  28-29-31-32-33-31-32-33-34-5-36  37-38-41-42-44-45-46-47-50-51-52-53-54  Malavan Tin Bureau  1028 Conn Ave N W Washington 6 DC 49	Radium Chemical Co 161 E 42 St New York 17 NY 38 Ray Proof Corp 513 W 54 St New York 19 NY 28-37 Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass 22 Raytheon Mfg Co Microwave & Power Tube Operations Foundry Ave Waltham Mass 22 Rembar Co 147 Main St Dobbs Ferry NY 33-51 Rem-Cru Titanium Inc Midland Pa 86 Republic Steel Corp Republic Steel Corp Republic Bldg Cleveland 1 Ohio 25-43-44-50 Revere Copper & Brass Inc 230 Park Ave New York 17 NY 21 Riverside-Alloy Metal Div Porter Co H K 1 Pavilion Ave Riverside NJ 10-12-14-34-35-44 Romac Products Co 48-01 25 Ave Long Island City 3 NY 27 Rome Cable Corp Ridge St Rome NY Ryerson & Son Joseph T 16 & Rockwell Sts Chicago 8 Ill Scientific Glass Apparatus Co 100 Lakewood Terrace 16-17-18- Bloomfeld NJ Scovill Mfg Co 99 Mill St Waterbury 20 Conn 6-12-13-14-21 Seager Standard Carbon Co 291 Church St New York 13 NY 2 Secon Metals Corp 7 Intervale St White Plains NY 35-42-50 Seymour Mfg Co 15 Franklin St Seymour Conn 12-13-14 Shieldalloy Corp Newfield NJ Somers Brass Co Baldwin Ave Waterbury Conn 12-13-14-21-34-35 Spinform Inc 65 Mechanic St Attleboro Mass 27-33 Stackpole Carbon Co	Foil
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Ace Plastic Co 91-30 VanWyck Expwy Jamaica 35 NY	79
Acme Mfg & Gasket Co 738 N 41 St Philadelphia 4 Pa	59
Advance Electronics Co 8510 North End Ave Oak Park 37 Mich	59
Air Transport Mfg Co 1114 N Sycamore Ave Los Angeles 38 Calif	59
Allegheny Ludlum Steel Corp	82
Allied Engraving & Stamping Co 17 Elm St Buffalo 3 NY All-State Welding Alloys Co 249 Ferris Ave White Plains NY 61-63	59
All-State Welding Alloys Co 249 Ferris Ave White Plains NY 61-63	,
Albe Scientific	-75
Alpha Metals Inc 56 Water St	(
Jersey City 4 NJ 55-57-59-61-62-63-64 Alpha Wire Corp	-00
200 Varick St New York 14 NY 71-79-84 Aluminum Co of America Alcoa Bldg Pittsburgh 19 Pa 55-59-61	-85
American Lava Coro	
Subs Minn Mining & Mfg Cherokee Blvd & Mfrs Rd Chattanooga 5 Tenn	(
	69 (
American Metal Co 61 Broadway New York 6 NY 63-64 American Platinum Works 231 NJ RR Ave Newark 5 NJ American Silver Co 3607 Prince St Flushing 54 NY American Super-Temperature Wise Inc.	
American Silver Co	80 (
Timetream Super-Temperatures Wires Inc	65 I
West Canal St Winooski Vt Amplex Div Chrysler Corp P O Box 2718 Detroit 31 Mich	-79 =c I
Anchor Metal Co	56 I
966 Meeker Ave Brooklyn 22 NY 55-61-62-63-64	-65
Anchor Plastics Co 36-36 36 St Long Island City 6 NY	79
Anderson & Sons N Elm St Westfield Mass	59 I
Armco Steel Corp 703 Curtis St Middletown Ohio Associated Mfg Co	81 I
Associated Mig Co 4755 N Rockwell St Chicago 25 III Associated Production Co	59 I
162 N Clinton St Chicago 6 Ill Atlantic Metal Hose Co	59 I
ove Dyckman St New York 34 NY	74 I
Auburn Mfg Co Stack St Middletown Conn Automatic Methods Inc	59 I
965 W Grand St Elizabeth NJ Avon Tube Div Higbie Mfg Co	59 E
Barrett Rd Rochester Mich	81 E
Babcock & Wilcox Co Tubular Products Div Beaver Falls Pa 73-81-	00
Bache & Co Semon 636 Greenwich St New York 14 NY	
B & C Insulation Products Inc	72 E
Belmont Smelting & Refining Works	-84 E
330 Belmont Ave Brooklyn 7 NY 55-61-62-63-	·65 E
Bentley Harris Mfg Co Conshohocken 30 Pa 71-79.	.84 -
Bernard Franklin Co 4155 E Hedley St Philadelphia 37 Pa 59-	E
Bethlehem Steel Co Bethlehem Pa	
Bios Labs Inc	57 E
New York 23 NY 76-80-81-82-	83
Birnbach Radio Co 145 Hudson St New York 13 NY 71-79-84-	·85
Bishop & Co Platinum Works J  Malvern Pa  73-75-76-	·82
P O Box 1589 Santa Barbara Calif 71.	F
Borden Co Chemical Div 350 Madison Ave New York 17 NY 71.	79
Bow Solder Products Co 251 Freeman St Brooklyn 22 NY 61-62-63-	·64
Brach Mig Corp 200 Central Ave Newark 3NJ	63 F
Bram Chemical Co Metals & Minerals Div 820 65 Ave 55-57-60-65-	-68
Philadelphia 26 Pa 70-75-76-80. Brand & Co William	
41 North St Willimantic Conn 71-79- Bridgeport Brass Co	
30 Grand St Bridgenort 2 Conn cc co go	·73 F
Brooks & Perkins Inc  1950 W Fort St Detroit 16 Mich  Carpenter Steel Co. Allen Take Div	57 F
Carpenter Steel Co Alloy Tube Div Springfield Rd Union NJ	82 F
Carpenter Steel Co Front & Bern Sts Reading Pa 60.	-82 F
Carstedt Research Inc	71 F
2501 E 68 St Long Beach 5 Calif Centralab Div Globe Union Inc 900 E Keefe Ave Milwaukee 1 Wis	69 F
Cerro De Pasco Sales Corp	G
300 Park Ave New York 22 NY 62- Chace Co W M 1600 Beard Ave Detroit 9 Mich	.03 60
Channel Master Corp Ellenville NY 66-	G
	0.1

Chase Brass & Copper Co	
Chase Brass & Copper Co 236 Grand St Waterbury 20 Conn 58-63-65-68-70	-82
Chemalloy Electronics Corp Gillespie Airport Santee Calif	
Chicago Casket Co	61
1271 W North Ave Chicago 22 Ill Chromium Corp of America	79
Chromium Corp of America P O Box 1229 Waterbury 20 Conn Cleveland Container Co	55
6201 Barberton Ave	
Cleveland 2 Ohio 67-77 Clowes Ceramic Corp	-78
3711 Calhoun Ave Chattanooga 7 Tenn Columbia Products Co 6625 Shakespeare Rd Columbia SC	69
6625 Shakespeare Rd Columbia SC	71
Bank St E Greenville Pa	71
Columbia Wire & Supply Co 2850 Irving Park Rd Chicago 18 Ill	21
Conrad & Moser	
2 Borden Ave Long Island City 1 NY Continental-Diamond Fibre Corp	59
Newark Del 78- Corning Glass Works	-79
Corning NY Croname Inc	72
3701 Ravenswood Ave Chicago 13 Ill	59
3701 Ravenswood Ave Chicago 13 Ill Crucible Steel Co of America Henry W Oliver Bldg Pittsburgh 22 Pa 73-74-76	82
Crystalx-westiake Corp	-79
Delta Chemical Works 23 W 60 St 56-60-66-73 New York 23 NY 76-80-81-82	
Delta Co 333 W 24 Pl Chicago 16 Ill	55
Diamonite Products Mfg Co	
217 4 St N E Canton 2 Ohio Dielectric Materials Co	69
5315 N Ravenswood Ave Chicago 40 Ill 71-79-	84
Dow Chemical Co	
Midland Mich 73- Downing Crystal Co	
191 Shaeffer Ave Westminster Md Driver Co Wilbur B	57
Downing Crystal Co 191 Shaeffer Ave Westminster Md Driver Co Wilbur B 1875 McCarter Hwy Newark 4 NJ Du-Co Ceramics Co	58
Box 278 Saxonburg Pa	69
Dunton Co M W 7 Goff St Providence RI 63-	64
7 Goff St Providence RI 63- Du Pont de Nemours & Co E I Wilmington 98 Del	63
Eastern Smelting & Refining Corp	80
Eisler Eng'g Co	
Flootrical Potractorica Co	83
E Clark St E Palestine Ohio Electrical Specialty Co	69
158 11 St 01-03-07-	
San Francisco 3 Calif 77-78-79-84- Elzee Metal Products Co	
775 39 St Brooklyn 32 NY	59
Seabury Ave & Butler Pl Bronx 61 NY 71-78-	79
	59
Enthoven Solders Ltd	
113 N Water St Rochester 4 NY Erca Tool Die & Stamping Co	
19 Ash St Brooklyn 22 NY Erie Resistor Corp	59
644 W 12 St. Erie 6 Pa	59
	59
Extruders Inc 3232 W El Segundo Blvd Hawthorne Calif	79
Falstrom Co Falstrom Court Passaic NJ	59
Federal Tool & Mfg Co 3600 Alabama Ave Minneapolis 16 Minn	59
3600 Alabama Ave Minneanolis 16 Minn Federated Metals Div American Smelting & Refining Co 120 Broadway	
New York 5 NY 51-52-53-54-	65
	72
	72
Flexaust Co 100 Park Ave New York 7 NY	74
Flexonics Corp 1315 S 3 Ave Maywood Ill 74-79-	82
Fluorocarbon Products Inc Div U S	
Forsberg Mfg Co	79
125 Seaview Ave Bridgeport 1 Conn Franklin Fibre-Lamitex Corp	59
Franklin Fibre-Lamitex Corp Wilmington Del 71-78-	79
	= 0
Freeway Washer & Stamping Co 4911 Grant Ave Cleveland 5 Ohio	59
4911 Grant Ave Cleveland 5 Ohio Frenchtown Porcelain Co Muirhead Ave Trenton 9 NJ	69
4911 Grant Ave Cleveland 5 Ohio Frenchtown Porcelain Co Muirhead Ave Trenton 9 NJ Furane Plastics Inc 4516 Brazil St Los Angeles 32 Calif 71-	69
Frenchtown Porcelain Co Muirhead Ave Trenton 9 NJ Furane Plastics Inc	69 79
Frenchtown Porcelain Co Muirhead Ave Trenton 9 NJ Furane Plastics Inc 4516 Brazil St Los Angeles 32 Calif Garlock Packing Co 402 Main St Palmyra NY 67- Gemex Corp	69 79

General Electric Co	
Coshocton Ohio	71-78
Coshocton Ohio Glass Eng'g Labs Inc 601 O'Neill St Belmont Calif	72
31 Wyckoff Ave Brooklyn 37 NY Golden Co	
1054 38 St Brooklyn 19 NY Goldsmith Bros Smelting & Refining 1300 W 59 St Chicago 36 Ill	Co 59
1300 W 59 St Chicago 36 Ill Goodrich Industrial Products Co B F	61-65
Marietta Ohio Hallett Mfg Co	75
1601 W Florence Inglewood Calif Handy & Harman	74
	55-65-80
82 Fulton St. New York 35 N1 Harwood Electronics Co 466 W Superior St Chicago 10 III Haveg Industries Inc 900 Greenbank Rd Wilmington 8 De Haydu Electronic Products 1426 W Front St Plainfield NJ Heldor Mfg Corp 238 Lawis St Paterson NJ	59
Haveg Industries Inc 900 Greenbank Rd Wilmington 8 De	el 79
Haydu Electronic Products	58
Heldor Mfg Corp	***
Hi Grade Alloy Corn	-
Hitemp Wires Inc	-63-64-65
	71-79-84
Honeycomb Co of America 3 Burroughs St Bridgeport 8 Conn Hudson Tool & Die Co	71-78
18 Malvern St Newark 5 NJ Huse Liberty Mica Co	59
Peabody Industrial Center Peabody Mass	
ik: Mfo	71-78
325 N Hoyne Ave Chicago 12 I!! Improved Seamless Wire Co	58-59
775 Eddy St Providence 5 RI Indium Corp of America	80
1676 Lincoln Ave Utica 4 NY	62
Industrial Hardware Mfg Co 109 Prince St New York 12 NY	59
Insulating Fabricators of NE Inc 69 Grove St Watertown 72 Mass	64-78-79
69 Grove St Watertown 72 Mass Insulation Mfrs Corp 565 W Washington Blvd	
Chicago 39 Ill 67-71-77- Insulation & Wires Inc	78-79-84
	71-78-84
186 Granite St Manchester NH	78-79
Insuline Corp of America 186 Granite St Manchester NH International Nickel Co 67 Wall St New York 5 NY Irvington Div Minn Mining & Mfg Ct	73-75-76
Irvington Div Minn Mining & Mfg Co 11 Argyle Terrace Irvington 11 NY	79
Isolantite Mfg Corp Warren Ave Stirling NJ	69
Johns-Manville 22 E 40 St New York 16 NY	67
Johnson & Hoffman Mfg Corp 31 E 2 St Mineola NY	
Johnson Mfg Co	59
Mt Vernon Iowa Johnston Foil Mfg Co 6008 S Broadway St Louis 11 Mo	61-63-64
Jones & Laughlin Steel Corp	
3 Gateway Center Pittsburgh 30 Pa Kaiser Aluminum & Chemical	81
919 N Michigan Ave Chicago Ill	
Keasbey & Mattison Co	55
Keasbey & Mattison Co Ambler Pa Kees Mfg Co F D	55 67
Keasbey & Mattison Co Ambler Pa Kees Mfg Co F D 700 Park St Beatrice Nebr	55
Keasbey & Mattison Co Ambler Pa Kees Mfg Co F D 700 Park St Beatrice Nebr Kester Solder Co	55 67
Keasbey & Mattison Co Ambler Pa Kees Mfg Co F D 700 Park St Beatrice Nebr Kester Solder Co	55 67 59
Keasbey & Mattison Co Ambler Pa Kees Mfg Co F D 700 Park St Beatrice Nebr Kester Solder Co 4201 Wrightwood Ave Chicago 39 III Keystone Electronics Corp 423 Broome St New York 13 NY Kirchberger & Co M 83 W Forest Ave Englewood NJ	55 67 59 63 59
Keasbey & Mattison Co Ambler Pa Kees Mfg Co F D 700 Park St Beatrice Nebr Kester Solder Co 4201 Wrightwood Ave Chicago 39 III Keystone Electronics Corp 423 Broome St New York 13 NY Kirchberger & Co M 83 W Forest Ave Englewood NJ	55 67 59 63 59
Keasbey & Mattison Co Ambler Pa Kecs Mfg Co F D 700 Park St Beatrice Nebr Kester Solder Co 4201 Wrightwood Ave Chicago 39 Ill Keystone Electronics Corp 423 Broome St New York 13 NY Kirchberger & Co M 83 W Forest Ave Englewood NJ Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY Kontes Glass Co	55 67 59 63 59
Keasbey & Mattison Co Ambler Pa Kees Mfg Co F D 70 Park St Beatrice Nebr Kester Solder Co 4201 Wrightwood Ave Chicago 39 Ill Keystone Electronics Corp 423 Broome St New York 13 NY Kirchberger & Co M 83 W Forest Ave Englewood NJ Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY Kontes Glass Co Vineland NJ Krueger & Hudepohl	55 67 59 63 59 69 59
Keasbey & Mattison Co Ambler Pa Kees Mfg Co F D 700 Park St Beatrice Nebr Kester Solder Co 4201 Wrightwood Ave Chicago 39 III Keystone Electronics Corp 423 Broome St New York 13 NY Kirchberger & Co M 83 W Forest Ave Englewood NJ Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY Kontes Glass Co Vineland NJ Krueger & Hudepohl 1041 Evans St Cincinnati 4 Ohio Kuss Industries Inc	55 67 59 63 59 69 72 59
Keasbey & Mattison Co Ambler Pa Kees Mfg Co F D 70 Park St Beatrice Nebr Kester Solder Co 4201 Wrightwood Ave Chicago 39 Ill Keystone Electronics Corp 423 Broome St New York 13 NY Kirchberger & Co M 83 W Forest Ave Englewood NJ Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY Kontes Glass Co Vineland NJ Krueger & Hudepohl 1041 Evans St Cincinnati 4 Ohio Kuss Industries Inc Tacony & Lewis Sts Philadelphia 24	55 67 59 63 59 69 72 59 72
Keasbey & Mattison Co Ambler Pa Kees Mfg Co F D 70 Park St Beatrice Nebr Kester Solder Co 4201 Wrightwood Ave Chicago 39 Ill Keystone Electronics Corp 423 Broome St New York 13 NY Kirchberger & Co M 83 W Forest Ave Englewood NJ Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY Kontes Glass Co Vineland NJ Krueger & Hudepohl 1041 Evans St Cincinnati 4 Ohio Kuss Industries Inc Tacony & Lewis Sts Philadelphia 24	55 67 59 63 59 69 72 59 72
Keasbey & Mattison Co Ambler Pa Kees Mfg Co F D 700 Park St Beatrice Nebr Kester Solder Co 4201 Wrightwood Ave Chicago 39 III Keystone Electronics Corp 423 Broome St New York 13 NY Kirchberger & Co M 83 W Forest Ave Englewood NJ Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY Kontes Glass Co Vineland NJ Krueger & Hudepohl 1041 Evans St Cincinnati 4 Ohio Kuss Industries Inc Tacony & Lewis Sts Philadelphia 24 Lamaco Inc 9280 W Grand Ave Franklin Park III Laminated Sheet Products Corp 449 Neponset St Norwood Mass La More C D	55 67 59 63 59 69 72 59 72 59 Pa 59 77
Keasbey & Mattison Co Ambler Pa Kees Mfg Co F D 700 Park St Beatrice Nebr Kester Solder Co 4201 Wrightwood Ave Chicago 39 III Keystone Electronics Corp 423 Broome St New York 13 NY Kirchberger & Co M 83 W Forest Ave Englewood NJ Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY Kontes Glass Co Vineland NJ Krueger & Hudepohl 1041 Evans St Cincinnati 4 Ohio Kuss Industries Inc Tacony & Lewis Sts Philadelphia 24 Lamaco Inc 9230 W Grand Ave Franklin Park III Laminated Sheet Products Corp 449 Neponset St Norwood Mass La Moree C D 2433 Birkdale St Los Angeles 31 Ca	55 67 59 63 59 69 72 59 72 77 71-78
Keasbey & Mattison Co Ambler Pa Kees Mfg Co F D 700 Park St Beatrice Nebr Kester Solder Co 4201 Wrightwood Ave Chicago 39 III Keystone Electronics Corp 423 Broome St New York 13 NY Kirchberger & Co M 83 W Forest Ave Englewood NJ Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY Kontes Glass Co Vineland NJ Krueger & Hudepohl 1041 Evans St Cincinnati 4 Ohio Kuss Industries Inc Tacony & Lewis Sts Philadelphia 24 Lamaco Inc 9230 W Grand Ave Franklin Park III Laminated Sheet Products Corp 449 Neponset St Norwood Mass La Moree C D 2433 Birkdale St Los Angeles 31 Ca	55 67 59 63 59 69 72 59 72 77 71-78
Keasbey & Mattison Co Ambler Pa Kees Mfg Co F D 700 Park St Beatrice Nebr Kester Solder Co 4201 Wrightwood Ave Chicago 39 III Keystone Electronics Corp 423 Broome St New York 13 NY Kirchberger & Co M 83 W Forest Ave Englewood NJ Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY Kontes Glass Co Vineland NJ Krueger & Hudepohl 1041 Evans St Cincinnati 4 Ohio Kuss Industries Inc Tacony & Lewis Sts Philadelphia 24 Lamaco Inc 9230 W Grand Ave Franklin Park III Laminated Sheet Products Corp 449 Neponset St Norwood Mass La Moree C D 2433 Birkdale St Los Angeles 31 Ca	55 67 59 63 59 69 72 59 72 77 71-78
Keasbey & Mattison Co Ambler Pa Kees Mfg Co F D 70 Park St Beatrice Nebr Kester Solder Co 4201 Wrightwood Ave Chicago 39 Ill Keystone Electronics Corp 423 Broome St New York 13 NY Kirchberger & Co M 83 W Forest Ave Englewood NJ Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY Kontes Glass Co Vineland NJ Krueger & Hudepohl 1041 Evans St Cincinnati 4 Ohio Kuss Industries Inc Tacony & Lewis Sts Philadelphia 24 Lamaco Inc Tacony & Lewis Sts Philadelphia 24 Lamaco Inc 2230 W Grand Ave Franklin Park Ill Laminated Sheet Products Corp 449 Neponset St Norwood Mass La Moree C D 2433 Birkdale St Los Angeles 31 Ca La Pointe Industries Inc 155 W Main St Rockville Conn Lapp Insulator Co Radio Specialties D 24 Summer St LeRoy NY Leach & Garner Industrial Div Leach & Garner Industrial	55 67 59 63 59 72 59 72 71-78 11f 71 66
Keasbey & Mattison Co Ambler Pa Kees Mfg Co F D 700 Park St Beatrice Nebr Kester Solder Co 4201 Wrightwood Ave Chicago 39 III Keystone Electronics Corp 423 Broome St New York 13 NY Kirchberger & Co M 83 W Forest Ave Englewood NJ Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY Kontes Glass Co Vineland NJ Krueger & Hudepohl 1041 Evans St Cincinnati 4 Ohio Kuss Industries Inc Tacony & Lewis Sts Philadelphia 24 Lamaco Inc 9230 W Grand Ave Franklin Park III Laminated Sheet Products Corp 449 Neponset St Norwood Mass La Moree C D 243 Birkdale St Los Angeles 31 Ca La Pointe Industries Inc 155 W Main St Rockville Conn Lapp Insulator Co Radio Specialties D 24 Summer St LeRoy NY Leach & Garner Bldg Attleboro Mass Lee Chemical Corp Walter	55 67 59 63 59 72 59 72 71-78 8lif 71 66 iv 69
Keasbey & Mattison Co Ambler Pa Kees Mfg Co F D 700 Park St Beatrice Nebr Kester Solder Co 4201 Wrightwood Ave Chicago 39 III Keystone Electronics Corp 423 Broome St New York 13 NY Kirchberger & Co M 83 W Forest Ave Englewood NJ Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY Kontes Glass Co Vineland NJ Krueger & Hudepohl 1041 Evans St Cincinnati 4 Ohio Kuss Industries Inc Tacony & Lewis Sts Philadelphia 24 Lamaco Inc 9230 W Grand Ave Franklin Park III Laminated Sheet Products Corp 449 Neponset St Norwood Mass La Moree C D 2433 Birkdale St Los Angeles 31 Ca La Pointe Industries Inc 155 W Main St Rockville Conn Lapp Insulator Co Radio Specialties D 24 Summer St LeRoy NY Leach & Garner Bldg Attleboro Mass Lee Chemical Corp Walter Seabury Ave & Butler Pl Bronx 6 N Lenk Mfg Co	55 67 59 63 59 72 59 72 71-78 8lif 71 66 iv 69
Keasbey & Mattison Co Ambler Pa Kees Mfg Co F D 700 Park St Beatrice Nebr Kester Solder Co 4201 Wrightwood Ave Chicago 39 Ill Keystone Electronics Corp 423 Broome St New York 13 NY Kirchberger & Co M 83 W Forest Ave Englewood NJ Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY Kontes Glass Co Vineland NJ Krueger & Hudepohl 1041 Evans St Cincinnati 4 Ohio Kuss Industries Inc Tacony & Lewis Sts Philadelphia 24 Lamaco Inc 9230 W Grand Ave Franklin Park Ill Laminated Sheet Products Corp 449 Neponset St Norwood Mass La Moree C D 2433 Birkdale St Los Angeles 31 Ca La Pointe Industries Inc 155 W Main St Rockville Conn Lapp Insulator Co Radio Specialties D 24 Summer St LeRoy NY Leach & Garner Bldg Attleboro Mass Lee Chemical Corp Walter Seabury Ave & Butler Pl Bronx 6 P Lenk Mfg Co 30 Cummington St Boston 15 Mass Long Inc Thomas I	55 67 59 63 59 72 59 72 71-78 8lif 71 66 iv 69
Keasbey & Mattison Co Ambler Pa Kees Mfg Co F D 700 Park St Beatrice Nebr Kester Solder Co 4201 Wrightwood Ave Chicago 39 Ill Keystone Electronics Corp 423 Broome St New York 13 NY Kirchberger & Co M 83 W Forest Ave Englewood NJ Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY Kontes Glass Co Vineland NJ Krueger & Hudepohl 1041 Evans St Cincinnati 4 Ohio Kuss Industries Inc Tacony & Lewis Sts Philadelphia 24 Lamaco Inc 2230 W Grand Ave Franklin Park Ill Laminated Sheet Products Corp 449 Neponset St Norwood Mass La Moree C D 2433 Birkdale St Los Angeles 31 Ca La Pointe Industries Inc 155 W Main St Rockville Conn Lapp Insulator Co Radio Specialties D 24 Summer St LeRoy NY Leach & Garner Bldg Attleboro Mass Lee Chemical Corp Walter Seabury Ave & Butler Pl Bronx 6 N Lenk Mfg Co 30 Cummington St Boston 15 Mass Long Inc Thomas J 215 Stonehinge Lane	55 67 59 63 59 72 59 77 71-78 8lif 71 66 iv 69 70-73-80 VY 79
Keasbey & Mattison Co Ambler Pa Kees Mfg Co F D 700 Park St Beatrice Nebr Kester Solder Co 4201 Wrightwood Ave Chicago 39 Ill Keystone Electronics Corp 423 Broome St New York 13 NY Kirchberger & Co M 83 W Forest Ave Englewood NJ Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY Kontes Glass Co Vineland NJ Krueger & Hudepohl 1041 Evans St Cincinnati 4 Ohio Kuss Industries Inc Tacony & Lewis Sts Philadelphia 24 Lamaco Inc 9230 W Grand Ave Franklin Park Ill Laminated Sheet Products Corp 449 Neponset St Norwood Mass La Moree C D 2433 Birkdale St Los Angeles 31 Ca La Pointe Industries Inc 155 W Main St Rockville Conn Lapp Insulator Co Radio Specialties D 24 Summer St LeRoy NY Leach & Garner Industrial Div Leach & Garner Bldg Attleboro Mass Lee Chemical Corp Walter Seabury Ave & Butler Pl Bronx 6 N Lenk Mfg Co 30 Cummington St Boston 15 Mass Long Inc Thomas J 215 Stonehinge Lane Carle Place LI NY Louthan Mfg Co	55 67 59 63 59 72 59 72 59 77 71-78 8lif 71 66 69 70-73-80 1Y 79 64
Keasbey & Mattison Co Ambler Pa Kees Mfg Co F D 700 Park St Beatrice Nebr Kester Solder Co 4201 Wrightwood Ave Chicago 39 Ill Keystone Electronics Corp 423 Broome St New York 13 NY Kirchberger & Co M 83 W Forest Ave Englewood NJ Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY Kontes Glass Co Vineland NJ Krueger & Hudepohl 1041 Evans St Cincinnati 4 Ohio Kuss Industries Inc Tacony & Lewis Sts Philadelphia 24 Lamaco Inc 9230 W Grand Ave Franklin Park Ill Laminated Sheet Products Corp 449 Neponset St Norwood Mass La Moree C D 2433 Birkdale St Los Angeles 31 Ca La Pointe Industries Inc 155 W Main St Rockville Conn Lapp Insulator Co Radio Specialties D 24 Summer St LeRoy NY Leach & Garner Industrial Div Leach & Garner Bldg Attleboro Mass Lee Chemical Corp Walter Seabury Ave & Butler Pl Bronx 6 N Lenk Mfg Co 30 Cummington St Boston 15 Mass Long Inc Thomas J 215 Stonehinge Lane Carle Place LI NY Louthan Mfg Co	55 67 59 63 59 69 72 59 77 71-78 81if 71 66 69 70-73-80 11Y 79 64
Keasbey & Mattison Co Ambler Pa Kees Mfg Co F D Too Park St Beatrice Nebr Kester Solder Co 4201 Wrightwood Ave Chicago 39 Ill Keystone Electronics Corp 423 Broome St New York 13 NY Kirchberger & Co M 83 W Forest Ave Englewood NJ Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY Kontes Glass Co Vineland NJ Krueger & Hudepohl 1041 Evans St Cincinnati 4 Ohio Kuss Industries Inc Tacony & Lewis Sts Philadelphia 24 Lamaco Inc 29230 W Grand Ave Franklin Park Ill Laminated Sheet Products Corp 449 Neponset St Norwood Mass La Moree C D 2433 Birkdale St Los Angeles 31 Ca La Pointe Industries Inc 155 W Main St Rockville Conn Lapp Insulator Co Radio Specialties D 24 Summer St LeRoy NY Leach & Garner Industrial Div Leach & Garner Bldg Attleboro Mass Lee Chemical Corp Walter Seabury Ave & Butler Pl Bronx 6 N Lenk Mfg Co 30 Cummington St Boston 15 Mass Long Inc Thomas J 215 Stonehinge Lane Carle Place Li NY Louthan Mfg Co Harvey Ave E Liverpool Ohio Luzerne Rubber Co Muirhead Ave Trenton NJ Mackay Inc A D	55 67 59 63 59 69 72 59 77 71-78 81if 71 66 69 70-73-80 1Y 79 64
Keasbey & Mattison Co Ambler Pa Kees Mfg Co F D 700 Park St Beatrice Nebr Kester Solder Co 4201 Wrightwood Ave Chicago 39 III Keystone Electronics Corp 423 Broome St New York 13 NY Kirchberger & Co M 83 W Forest Ave Englewood NJ Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY Kontes Glass Co Vineland NJ Krueger & Hudepohl 1041 Evans St Cincinnati 4 Ohio Kuss Industries Inc Tacony & Lewis Sts Philadelphia 24 Lamaco Inc 9230 W Grand Ave Franklin Park III Laminated Sheet Products Corp 449 Neponset St Norwood Mass La Moree C D 243 Birkdale St Los Angeles 31 Ca La Pointe Industries Inc 155 W Main St Rockville Conn Lapp Insulator Co Radio Specialties D 24 Summer St LeRoy NY Leach & Garner Bldg Attleboro Mass Leech & Garner Bldg Attleboro Mass Leec Chemical Corp Walter Seabury Ave & Butler Pl Bronx 6 N Lenk Mfg Co 30 Cummington St Boston 15 Mass Long Inc Thomas J 215 Stonehinge Lane Carle Place LI NY Louthan Mfg Co	55 67 59 63 59 69 72 59 77 71-78 81if 71 66 69 70-73-80 1Y 79 64

Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind 56	Rem-Cru Titanium Inc Midland Pa 55-57-73	United Wire & Supply Corp 1497 Elmwood Ave
Mandex Mfg Co	Republic Foil & Metal Mills Inc	Providence 7 RI 65-66-68-70-73 U S Stoneware Co Alite Div
2608 W 15 St Chicago 8 Ill 59 Markel & Sons L Frank	oo Triangle St Danbury Conn 55 Republic Steel Corp	Orville Ohio
School Lane Norristown Pa 71-79-84 Mechanical Steel Tubing Corp	Republic Bldg Cleveland 1 Ohio 57-81-82 Resistoflex Corp	Utility Brass & Copper Corp 255 Conover St Brooklyn 31 NY 68-70
500 Barry St New York 59 NY 81	Woodland Rd Roseland NJ 79	Vacuum Metals Corp Div Crucible
Metal Textile Corp 647 E First Ave Roselle NJ 74-85	Revere Copper & Brass Inc 230 Park Ave	Steel Co
Metals & Controls Corp General Plate Div	New York 17 NY 57-66-68-70-73-81	Varflex Corp
48 Forest St Attleboro Mass 60-65-80 Metal Specialty Products Corp	Richardson Co 27 Ave & Lake St Melrose Park Ill 78-79	511 W Court St Rome NY 71-79-84
27-01 Brooklyn Queens Expressway	Romac Products Co	Voltube Corp Lincoln Hwy Menlo Park NJ 67-71-79-84
W Woodside 77 NY 59 Methode Mfg Corp	48-01 25 Ave Long Island City 3 NY 59 Rome Cable Corp	Wade Electric Products Co
7447 W Wilson Ave Harwood Heights Ill 59	Ridge St Rome NY 81	Box 271 Sturgis Mich 59 Wallingford Steel Co
Micarta Fabricators Inc	Ruby Chemical Co 68-70 McDowell St Columbus 16 Ohio 63	Valley St Wallingford Conn 73-81-82
5324 N Ravenswood Ave Chicago 40 Ill 78-79 Mico Instrument Co	Ryerson & Son Joseph T	Walsco Electronics Mfg Co 100 W Green St Rockford Ill 64-71-79
80 Trowbridge St Cambridge 38 Mass 63	16 & Rockwell Sts Chicago 8 Ill 66-81-82	Waterbury Pressed Metal Co
Mid-West Conveyor Co. Metal Products Div 7 & Sunshine Rd Kansas City 15 Kan 59	Saxonburg Ceramics Saxonburg Pa 69	300 Chase Ave Waterbury 14 Conn Werner Co R D
Mid-West Spring Mfg Co	Saxton Products Inc	295 5 Ave New York 16 NY 66
Mentone Ind 59 Mil Case Corp	1661 Boone Ave New York 60 NY 84 Scientific Glass Apparatus Co	Western Gold & Platinum Co 525 Harbor Blvd Belmont Calif 57-62
35-18 37 St Long Island City NY 71-72	100 Lakewood Terrace Bloomfield NJ 72-79	Wildberg Bros Smelting & Refining Co
Miller Dial & Nameplate Co 4400 N Temple City Blvd El Monte Calif 55	Schutte & Koerting Co Cornwells Heights Bucks Co Pa 72	742 Market St San Francisco 2 Calif Wilmington Fibre Specialty Co
Minor Rubber Co Ackerman St Bloomfield NJ 79	Scovill Mfg Co	New Castle Del
Mitronics Inc	99 Mill St Waterbury 20 Conn 59-68-70 Sheffco Mfg Corp	Winder Aircraft Corp of Florida P O Box 2397 Drane Field Lakeland Fla 57
1290 Central Ave Hillside NJ 69 Modern Adhesives & Electronics Inc	323 Bergen Blvd Fairview NJ 59	Winzeler Mfg & Tool Co
148 Greene St New York 12 NY 55	Silicone Insulation Inc Seabury Ave & Butler Pl	Wisconsin Porcelsin Co
Multicore Sales Corp 80 Shore Rd Port Washington NY 63	Bronx 61 NY 71-78-79	121 Lincoln St Sun Prairie Wis
Multicore Solders Ltd	Smith Inc Herman H 2326 Nostrand Ave Brooklyn 10 NY 59	Worcester Pressed Steel Co 100 Barber Ave Worcester 6 Mass 59
Maylands Ave Hemel Hempstead Hertfordshire England 63-64-65	Solar Aircraft Co	Wrought Washer Mfg Co
National Lead Co	2200 Pacific Hwy San Diego 12 Calif 59 Somer's Brass Co	Zell Products Corp
111 Broadway New York 6 NY 63 National Tel-Tronics Corp	Baldwin Ave Waterbury Conn 57	280 Main St Norwalk Conn Zierick Mfg Corp
52 St Casimir Ave Yonkers NY 59	South River Metal Products Co 377 Turnpike South River NJ 59-66	Beechwood & Rockdale Ave
National Vulcanized Fibre Co P O Box 311 Wilmington 99 Del 71-78	Sparta Mfg Co	New Rochelle NY
Natvar Corp	Dover Ohio 79 Spaulding Fibre Co	
211 Randolph Ave Woodbridge NJ 79-84 Newcomb Spring of Conn	310 Wheeler St Tonawanda NY 79	48—METERS, AUDIO
College Hwy Southington Conn 58-59 New England Tape Co	Spinform Inc 65 Mechanic St Attleboro Mass 59	Meters, audio 1
30 Tower St Hudson Mass 79	Standard Metals Corp	Meters, decibel
New Jersey Wood Finishing Co Amboy Ave Woodbridge NJ 79	262 Broad St N Attleboro Mass 65-68-70-73-75-76-80	Meters, distortion 3
New York Solder Co	Standard Record Mfg Co	Meters, frequency 4
684 E 133 St New York 54 NY 63 Ney Co J M	70 N San Gabriel Blvd Pasadena 8 Calif 59 Staver Co	Meters, intermodulation 5
Ney Co J M P O Box 990 Hartford 1 Conn 65	Staver Co 41-51 N Saxon Ave Bay Shore LI NY 59	Meters, intermodulation 5 Meters, modulation 6
Ney Co J M P O Box 990 Hartford 1 Conn 65 Niemand Bros 37-05 35 Ave Long Island City 1 NY 77	Staver Co 41-51 N Saxon Ave Bay Shore LI NY 59 Stevens Products Inc 86 Main St E Orange NJ 71-77-78	Meters, intermodulation 5 Meters, modulation 6 Meters, noise 7
Ney Co J M P O Box 990 Hartford 1 Conn 65 Niemand Bros 37-05 35 Ave Long Island City 1 NY Norrich Plastics Corp	Staver Co 41-51 N Saxon Ave Bay Shore LI NY 59 Stevens Products Inc 86 Main St E Orange NJ 71-77-78 Steward Mfg Co D M	Meters, intermodulation 5 Meters, modulation 6 Meters, noise 7 Meters, output 8 Meters, phase angle 9
Ney Co J M P O Box 990 Hartford 1 Conn Niemand Bros 37-05 35 Ave Long Island City 1 NY Norrich Plastics Corp 35 E 32 St New York 16 NY Northern Metal Products Corp	Staver Co 41-51 N Saxon Ave Bay Shore LI NY 59 Stevens Products Inc 86 Main St E Orange NJ 71-77-78 Steward Mfg Co D M Chattanooga Tenn Stone City Machine & Tool Co	Meters, intermodulation 5 Meters, modulation 6 Meters, noise 7 Meters, output 8 Meters, phase angle 9 Meters, recording 10
Ney Co J M P O Box 990 Hartford 1 Conn Niemand Bros 37-05 35 Ave Long Island City 1 NY Norrich Plastics Corp 35 E 32 St New York 16 NY 79	Staver Co 41-51 N Saxon Ave Bay Shore LI NY 59 Stevens Products Inc 86 Main St E Orange NJ 71-77-78 Steward Mfg Co D M Chattanooga Tenn 69 Stone City Machine & Tool Co 1206 7 St Bedford Ind 59	Meters, intermodulation       5         Meters, modulation       6         Meters, noise       7         Meters, output       8         Meters, phase angle       9         Meters, recording       10         Meters, sound level       11
Ney Co J M P O Box 990 Hartford 1 Conn 65 Niemand Bros 37-05 35 Ave Long Island City 1 NY 77 Norrich Plastics Corp 35 E 32 St New York 16 NY 79 Northern Metal Products Corp 9599 W Grand Ave Franklin Park III 59 Norton Co 1 New Bond St Worcester 6 Mass 69	Staver Co 41-51 N Saxon Ave Bay Shore LI NY 59 Stevens Products Inc 86 Main St E Orange NJ 71-77-78 Steward Mfg Co D M Chattanooga Tenn 69 Stone City Machine & Tool Co 1206 7 St Bedford Ind 59 Stone Paper Tube Co 900 Franklin St	Meters, intermodulation 5 Meters, modulation 6 Meters, noise 7 Meters, output 8 Meters, phase angle 9 Meters, recording 10
Ney Co J M P O Box 990 Hartford 1 Conn Niemand Bros 37-05 35 Ave Long Island City 1 NY Norrich Plastics Corp 35 E 32 St New York 16 NY Northern Metal Products Corp 9599 W Grand Ave Franklin Park Ill Norton Co	Staver Co	Meters, intermodulation 5 Meters, modulation 6 Meters, noise
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865 N Sangamon St Chicago 22 III	2-S 323 W 7 St San Pedro Calif	Airmec Ltd 4 High Wycombe
Cinema-Television Ltd	Rawson Electrical Instrument Co	
Worsley Bridge Rd Lower Sydenham	117 Potter St Cambridge 42 Mass	Buckinghamshire England 17-21-24-2
London SE 26 England	4 Scott Inc H H	8 Airpax Products Co Middle River Baltimore 20 Md
Computer-Measurements Corp	385 Putnam Ave Cambridge 39 Mass	Air Transport Mfg Co
5528 Vineland Ave N Hollywood Calif	4 Sensitive Research Instrument Corn	Till Transport Mig Co
Daven Co	310 Main St New Rochelle NV	1114 N Sycamore Ave 2-4 Los Angeles 38 Calif 2
Route 10 Livingston NJ 1-2-3-4- Davenport Mfg Co	1-8 Shasta Div Beckman Instruments Inc.	2-4 Los Angeles 38 Calif 2: All-State Welding Alloys Co
1713 N Ashland Ave Chicago 22 Ill	PU Box 296 Station A Richmond Calif	
Dayton Aviation Radio & Equipment Corp	11 Simpson Electric Co	210 I Citis five White I mins I'll
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45-01 Northern Blvd	Queens Rd Thames Ditton	Alpha Instrument Co
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Deltron Inc	Southern Instruments Computer Div	Tien Bondon Conn
2905 N Leithgow St Philadelphia 33 Pa	9 Frimley Rd Camberley	Alto Scientific Co
Donner Scientific Co	Surrey England	9 Palo Alto Calif 17-22-29-3
888 Galindo St Concord Calif	12 Systron Corp	Taio Titto Catti
D & R Ltd	2055 Concord Blyd Concord Culif	American Machine & Foundry Co
402 E Gutierree St Santa Barbara Calif	12 fathall Measuring Systems Co	Defense Trougets Group
Dudek & Co R C	Kimberton Rd Phoenixville Po	1101 N Royal St Alexandria Va 22-21 American Metrix Corp 1-2-3-8-9-12-13-14
407 N Maple Dr Beverly Hills Calif	1 Technical Products Co Instrument Div	10 Tr 11- 4 Tr 10 10 01 00
Dyna-Empire Inc	6670 Lexington Ave Los Angeles 38 Colif	40 Haddon Ave 15-16-17-18-19-21-22 Camden 3 NJ 23-25-27-29-30-3
1075 Stewart Ave Garden City LI NY 3-7-	-11 Telectro Industries Corp	Angles Budgets Co
Electric Design & Mfg Co	35-18 37 St Long Island City 1 NY 1-7-10	
Jefferson St Burlington Iowa	2 Teletronics Lab Inc	-12 2712 W Montrose Ave Chicago 18 III 29 Anton Electronic Labs
Electro-Mechanical Instrumnt Co	54 Kinkel St Westbury NY	
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	10 2201 Walnut St Garland Texas	Associated Research Inc
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	10 Waters Mfg Inc	Electronics & Instrumentation Div
Fluke Mfg Co John		1-2 42 4 Ave Waltham 54 Mass 28
1111 W Nickerson St Seattle 99 Wash	8 Welch Mfg Co W M	Ballantine Labs Inc
General Radio Co	1515 Sedgwick St Chicago 10 III 2.	-11 Boonton NJ 2-15-17-18-29
275 Massachusetts Ave	Western Electro Acoustic Lab Inc	Barber-Colman Co
Cambridge 39 Mass 1-2-3-4-6-7-8-	11 11789 San Vicente Blvd	Rock St Rockford III 17
Hagan Chemicals & Controls Inc	Los Angeles 49 Calif 1-2-7.	Barker & Williamson Inc
Hagan Bldg Pittsburgh 30 Pa	10 Westinghouse Electric Corp	Canal & Beaver Sts Bristol Pa
Heath Co	P O Box 868 Pittsburgh 30 Pa 1-2.	10 Beckman/Berkeley Div
305 Territorial Rd	Weston Electrical Instrument Corp	Beckman Instruments Inc
Benton Harbor Mich 2-3-5	5-8 Sub Daystrom Inc	2200 Wright Ave Richmond 3 Calif 7-24
Hewlett-Packard Co	614 Frelinghuysen Ave Newark 12 NI 0	10 Beckman/Helipot Corp
275 Page Mill Rd Palo Alto Calif 2-3	-4	Newport Beach Calif 1-33-3
Hickok Electrical Instrument Co		Beede Electrical Instrument Co 1-4-8-13-16-
10514 Dupont Ave	11 49—METERS, ELECTRICAL	Penacook NH 17-18-21-22-23-30
Cleveland 8 Ohio 1-2-3-4-6-7-8-9-		Bergen Labs
Hoyt Electrical Instrument Works	MEASUREMENT	247 Crooks Ave Clifton NJ 29
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass	MEASUREMENT	247 Crooks Ave Clifton NJ Beta Electric Div Sorensen Co
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co	MEASUREMENT	247 Crooks Ave Clifton NJ 29
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif	MEASUREMENT  Meters, ammeter	247 Crooks Ave Clifton NJ 29 Beta Electric Div Sorensen Co 333 E 103 St New York 29 NY 10-13 B & H Instrument Co
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif I-IS Instrument Corp	MEASUREMENT  Meters, ammeter	247 Crooks Ave Clifton NJ 29 Beta Electric Div Sorensen Co 333 E 103 St New York 29 NY 10-13 B & H Instrument Co
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif I-IS Instrument Corp 4525 W 160 St Cleveland 11 Ohio	MEASUREMENT  Meters, ammeter	247 Crooks Ave Clifton NJ 29 Beta Electric Div Sorensen Co 333 E 103 St New York 29 NY 10-13 B & H Instrument Co
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif I-IS Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co	MEASUREMENT  Meters, ammeter Meters, capacitance Meters, conductance Meters d'arsonyal	247 Crooks Ave Clifton NJ 29  Beta Electric Div Sorensen Co 333 E 103 St New York 29 NY 10-13  B & H Instrument Co 3479 W Vickery Blvd Ft Worth 7 Texas 7  Biddle Co James G
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif I-L-S Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY	MEASUREMENT  Meters, ammeter	247 Crooks Ave Clifton NJ 29  Beta Electric Div Sorensen Co 333 E 103 St New York 29 NY 10-13  B & H Instrument Co 3479 W Vickery Blvd Ft Worth 7 Texas 7  Biddle Co James G 1316 Arch St Philadelphia 7 Pa 7-12-21
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif I-IS Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY International Instruments Inc	MEASUREMENT  Meters, ammeter	247 Crooks Ave Clifton NJ 29  Beta Electric Div Sorensen Co 333 E 103 St New York 29 NY 10-13  B & H Instrument Co 3479 W Vickery Blvd Ft Worth 7 Texas 7  Biddle Co James G 1316 Arch St Philadelphia 7 Pa 7-12-21  Bird Electronic Corp
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif I-IS Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY International Instruments Inc Box 2954 New Haven 15 Conn	MEASUREMENT  Meters, ammeter Meters, capacitance Meters, conductance Meters, d'arsonval Meters, electrometer Meters, flux	247 Crooks Ave Clifton NJ  Beta Electric Div Sorensen Co  333 E 103 St New York 29 NY  B & H Instrument Co  3479 W Vickery Blvd  Ft Worth 7 Texas  Biddle Co James G  1316 Arch St Philadelphia 7 Pa  Bird Electronic Corp  1800 E 38 St Cleveland 14 Ohio  31
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif I-IS Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY International Instruments Inc Hox 2954 New Haven 15 Conn Jackson Electronics Inc	MEASUREMENT  Meters, ammeter Meters, capacitance Meters, conductance Meters, d'arsonval Meters, electrometer Meters, flux Meters, frequency	247 Crooks Ave Clifton NJ 29  Beta Electric Div Sorensen Co 333 E 103 St New York 29 NY 10-13  B & H Instrument Co 3479 W Vickery Blvd Ft Worth 7 Texas 7  Biddle Co James G 1316 Arch St Philadelphia 7 Pa 7-12-21  Bird Electronic Corp 1800 E 38 St Cleveland 14 Ohio 31  Bolton Labs Inc W Main St Bolton Mass 18
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif I-IS Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY International Instruments Inc Box 2954 New Haven 15 Conn Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa 2-4-7	MEASUREMENT  Meters, ammeter Meters, capacitance Meters, conductance Meters, d'arsonval Meters, electrometer Meters, flux Meters, frequency	247 Crooks Ave Clifton NJ 29  Beta Electric Div Sorensen Co 333 E 103 St New York 29 NY 10-13  B & H Instrument Co 3479 W Vickery Blvd  Ft Worth 7 Texas 7  Biddle Co James G 1316 Arch St Philadelphia 7 Pa 7-12-21  Bird Electronic Corp 1800 E 38 St Cleveland 14 Ohio 31  Bolton Labs Inc W Main St Bolton Mass 18  Boonton Electronics Corp
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif I-L-S Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY International Instruments Inc Box 2954 New Haven 15 Conn Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa 2-4-7 Kay Electric Co	MEASUREMENT  Meters, ammeter Meters, capacitance Meters, conductance Meters, d'arsonval Meters, electrometer Meters, flux Meters, frequency Meters, galvanometer Meters, galvanometer Meters, galvanometer	247 Crooks Ave Clifton NJ 29  Beta Electric Div Sorensen Co 333 E 103 St New York 29 NY 10-13  B & H Instrument Co 3479 W Vickery Blvd Ft Worth 7 Texas 7  Biddle Co James G 1316 Arch St Philadelphia 7 Pa 7-12-21  Bird Electronic Corp 1800 E 38 St Cleveland 14 Ohio 31  Botton Labs Inc W Main St Bolton Mass 18  Boonton Electronics Corp 738 Speedwell Ave Morris Plains NJ 17-29-36
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif I-L-S Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY International Instruments Inc Box 2954 New Haven 15 Conn Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa Kay Electric Co 14 Maple Ave Pine Brook NJ	MEASUREMENT  Meters, ammeter Meters, capacitance Meters, conductance Meters, d'arsonval Meters, electrometer Meters, flux Meters, frequency Meters, galvanometer Meters, impedance	247 Crooks Ave Clifton NJ  Beta Electric Div Sorensen Co  333 E 103 St New York 29 NY  B & H Instrument Co  3479 W Vickery Blvd  Ft Worth 7 Texas  Biddle Co James G  1316 Arch St Philadelphia 7 Pa  7-12-21  Bird Electronic Corp  1800 E 38 St Cleveland 14 Ohio  Bolton Labs Inc W Main St Bolton Mass  Boonton Electronics Corp  738 Speedwell Ave Morris Plains NJ 17-29-30  Boonton Radio Corp
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif I-IS Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY International Instruments Inc Box 2954 New Haven 15 Conn Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa Kay Electric Co 14 Maple Ave Pine Brook NJ Lampkin Labs Inc	MEASUREMENT  Meters, ammeter	247 Crooks Ave Clifton NJ  Beta Electric Div Sorensen Co  333 E 103 St New York 29 NY  B & H Instrument Co  3479 W Vickery Blvd  Ft Worth 7 Texas  Biddle Co James G  1316 Arch St Philadelphia 7 Pa  7-12-21  Bird Electronic Corp  1800 E 38 St Cleveland 14 Ohio  31 Bolton Labs Inc W Main St Bolton Mass  Boonton Electronics Corp  738 Speedwell Ave Morris Plains NJ 17-29-30  Boonton Radio Corp  Intervale Rd Boonton NJ  26
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif I-IS Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY International Instruments Inc Box 2954 New Haven 15 Conn Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa Kay Electric Co 14 Maple Ave Pine Brook NJ Lampkin Labs Inc RFD 1 Bradenton Fla	MEASUREMENT  Meters, ammeter	247 Crooks Ave Clifton NJ  Beta Electric Div Sorensen Co  333 E 103 St New York 29 NY  B & H Instrument Co  3479 W Vickery Blvd  Ft Worth 7 Texas  Biddle Co James G  1316 Arch St Philadelphia 7 Pa  7-12-21  Bird Electronic Corp  1800 E 38 St Cleveland 14 Ohio  31 Boonton Labs Inc W Main St Bolton Mass  Boonton Electronics Corp  738 Speedwell Ave Morris Plains NJ 17-29-36  Boonton Radio Corp  Intervale Rd Boonton NJ  26 Booth Co Arthur E  26 Appeles A Calif 24
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif LI-S Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY International Instruments Inc Box 2954 New Haven 15 Conn Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa Kay Electric Co 14 Maple Ave Pine Brook NJ Lampkin Labs Inc RPD 1 Bradenton Fla Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY	MEASUREMENT  Meters, ammeter	247 Crooks Ave Clifton NJ  Beta Electric Div Sorensen Co  333 E 103 St New York 29 NY  B & H Instrument Co  3479 W Vickery Blvd  Ft Worth 7 Texas  Biddle Co James G  1316 Arch St Philadelphia 7 Pa  7-12-21  Bird Electronic Corp  1800 E 38 St Cleveland 14 Ohio  31 Boonton Labs Inc W Main St Bolton Mass  Boonton Electronics Corp  738 Speedwell Ave Morris Plains NJ 17-29-36  Boonton Radio Corp  Intervale Rd Boonton NJ  26 Booth Co Arthur E  26 Appeles A Calif 24
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif I-L-S Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY International Instruments Inc Box 2954 New Haven 15 Conn Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa 2-4-7 Kay Electric Co 14 Maple Ave Pine Brook NJ Lampkin Labs Inc RFD 1 Bradenton Fla Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY Larson Instrument Co	MEASUREMENT  Meters, ammeter Meters, capacitance Meters, conductance Meters, d'arsonval Meters, flux Meters, frequency Meters, galvanometer Meters, impedance Meters, kilovolt Meters, imegohm	247 Crooks Ave Clifton NJ  Beta Electric Div Sorensen Co  333 E 103 St New York 29 NY  B & H Instrument Co  3479 W Vickery Blvd  Ft Worth 7 Texas  Biddle Co James G  1316 Arch St Philadelphia 7 Pa  7-12-21  Bird Electronic Corp  1800 E 38 St Cleveland 14 Ohio  31 Botno Labs Inc W Main St Bolton Mass  Boonton Electronics Corp  738 Speedwell Ave Morris Plains NJ 17-29-36  Boonton Radio Corp  Intervale Rd Boonton NJ  Booth Co Arthur E  265 Alexandria Ave Los Angeles 4 Calif 24  Boulin Instrument Corp
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif I-L-S Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY International Instruments Inc Box 2954 New Haven 15 Conn Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa 2-4-7 Kay Electric Co 14 Maple Ave Pine Brook NJ Lampkin Labs Inc RFD 1 Bradenton Fla Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY Larson Instrument Co	MEASUREMENT  Meters, ammeter Meters, capacitance Meters, conductance Meters, d'arsonval Meters, electrometer Meters, frequency Meters, galvanometer Meters, impedance Meters, kilovolt Meters, kilowatt Meters, megohm Meters, microampere Meters, mic	247 Crooks Ave Clifton NJ  Beta Electric Div Sorensen Co  333 E 103 St New York 29 NY  B & H Instrument Co  3479 W Vickery Blvd  Ft Worth 7 Texas  Biddle Co James G  1316 Arch St Philadelphia 7 Pa  7-12-21  Bird Electronic Corp  1800 E 38 St Cleveland 14 Ohio  31  Botton Labs Inc W Main St Bolton Mass  Boonton Electronics Corp  738 Speedwell Ave Morris Plains NJ 17-29-30  Boonton Radio Corp  Intervale Rd Boonton NJ  26  Booth Co Arthur E  265 Alexandria Ave Los Angeles 4 Calif 24  Boulin Instrument Corp  10 1 St Pelham NY  28
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif I-IS Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY International Instruments Inc Box 2954 New Haven 15 Conn Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa 2-4-7 Kay Electric Co 14 Maple Ave Pine Brook NJ Lampkin Labs Inc RFD 1 Bradenton Fla Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY Larson Instrument Co 24 Orchard St Tarrytown NY Marconi Instruments Ltd	MEASUREMENT  Meters, ammeter	247 Crooks Ave Clifton NJ  Beta Electric Div Sorensen Co  333 E 103 St New York 29 NY  B & H Instrument Co  3479 W Vickery Blvd  Ft Worth 7 Texas  Biddle Co James G  1316 Arch St Philadelphia 7 Pa  7-12-21  Bird Electronic Corp  1800 E 38 St Cleveland 14 Ohio  Bolton Labs Inc W Main St Bolton Mass  Boonton Electronics Corp  738 Speedwell Ave Morris Plains NJ 17-29-30  Boonton Radio Corp  Intervale Rd Boonton NJ  Booth Co Arthur E  265 Alexandria Ave Los Angeles 4 Calif 24  Boulin Instrument Corp  10 1 St Pelham NY  Bristol Co  P O Rey 1790 ELTT 1-5-8-10-11-12-13-16
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif I-L-S Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY International Instruments Inc Box 2954 New Haven 15 Conn Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa 47-37 West Pine Brook NJ Lampkin Labs Inc RFD 1 Bradenton Fla Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY Larson Instrument Co 24 Orchard St Tarrytown NY Marconi Instruments Ltd 44 New St New York 4 NY	MEASUREMENT  Meters, ammeter Meters, capacitance Meters, conductance Meters, d'arsonval Meters, electrometer Meters, flux Meters, frequency Meters, galvanometer Meters, impedance Meters, kilovolt Meters, kilowatt Meters, microampere Meters, microampere Meters, microampere Meters, microvolt Meters, microvolt	247 Crooks Ave Clifton NJ 29  Beta Electric Div Sorensen Co 333 E 103 St New York 29 NY 10-13  B & H Instrument Co 3479 W Vickery Blvd Ft Worth 7 Texas 7  Biddle Co James G 1316 Arch St Philadelphia 7 Pa 7-12-21  Bird Electronic Corp 1800 E 38 St Cleveland 14 Ohio Bolton Labs Inc W Main St Bolton Mass 18  Boonton Electronics Corp 738 Speedwell Ave Morris Plains NJ 17-29-30  Boonton Radio Corp Intervale Rd Boonton NJ 26  Booth Co Arthur E 265 Alexandria Ave Los Angeles 4 Calif 24  Boulin Instrument Corp 10 1 St Pelham NY  Bristol Co P O Box 1790 EITT 1-5-8-10-11-12-13-16 Waterbury 20 Conn 17-21-22-23-25-30-31
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif I-L-S Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY International Instruments Inc Box 2954 New Haven 15 Conn Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa 47-37 Woodcrest Rd West Chester Pa Lampkin Labs Inc RFD 1 Bradenton Fla Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY Larrson Instrument Co 24 Orchard St Tarrytown NY Marconi Instruments Ltd 44 New St New York 4 NY Marion Electrical Instrument Co	MEASUREMENT  Meters, ammeter	247 Crooks Ave Clifton NJ 29  Beta Electric Div Sorensen Co 333 E 103 St New York 29 NY 10-13  B & H Instrument Co 3479 W Vickery Blvd Ft Worth 7 Texas 7  Biddle Co James G 1316 Arch St Philadelphia 7 Pa 7-12-21  Bird Electronic Corp 1800 E 38 St Cleveland 14 Ohio Bolton Labs Inc W Main St Bolton Mass 18  Boonton Electronics Corp 738 Speedwell Ave Morris Plains NJ 17-29-30  Boonton Radio Corp Intervale Rd Boonton NJ 26  Booth Co Arthur E 265 Alexandria Ave Los Angeles 4 Calif 24  Boulin Instrument Corp 10 1 St Pelham NY  Bristol Co P O Box 1790 EITT 1-5-8-10-11-12-13-16 Waterbury 20 Conn 17-21-22-23-25-30-31
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif I-L-S Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY International Instruments Inc Box 2954 New Haven 15 Conn Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa 2-4-7 Kay Electric Co 14 Maple Ave Pine Brook NJ Lampkin Labs Inc RFD 1 Bradenton Fla Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY Larson Instrument Co 24 Orchard St Tarrytown NY Marconi Instruments Ltd 44 New St New York 4 NY Marion Electrical Instrument Co Grenier Field Manchester NH	MEASUREMENT  Meters, ammeter	247 Crooks Ave Clifton NJ  Beta Electric Div Sorensen Co  333 E 103 St New York 29 NY  B & H Instrument Co  3479 W Vickery Blvd  Ft Worth 7 Texas  Biddle Co James G  1316 Arch St Philadelphia 7 Pa  7-12-21  Bird Electronic Corp  1800 E 38 St Cleveland 14 Ohio  31 Bolton Labs Inc W Main St Bolton Mass  Boonton Electronics Corp  738 Speedwell Ave Morris Plains NJ 17-29-30  Boonton Radio Corp  Intervale Rd Boonton NJ  26  Booth Co Arthur E  265 Alexandria Ave Los Angeles 4 Calif 24  Boulin Instrument Corp  10 1 St Pelham NY  Bristol Co  P O Box 1790 EITT  Waterbury 20 Conn  17-21-22-23-25-30-31  British Industries Corp  80 Shore Rd Port Washington NY  18-25
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif I-L-S Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY International Instruments Inc Box 2954 New Haven 15 Conn Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa 2-4-7 Kay Electric Co 14 Maple Ave Pine Brook NJ Lampkin Labs Inc RFD 1 Bradenton Fla Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY Larson Instrument Co 24 Orchard St Tarrytown NY Marconi Instruments Ltd 44 New St New York 4 NY Marion Electrical Instrument Co Grenier Field Manchester NH Measurements Corp	MEASUREMENT  Meters, ammeter	247 Crooks Ave Clifton NJ  Beta Electric Div Sorensen Co  333 E 103 St New York 29 NY  B & H Instrument Co  3479 W Vickery Blvd  Ft Worth 7 Texas  Biddle Co James G  1316 Arch St Philadelphia 7 Pa  7-12-21  Bird Electronic Corp  1800 E 38 St Cleveland 14 Ohio  31 Botton Labs Inc W Main St Bolton Mass  Boonton Electronics Corp  738 Speedwell Ave Morris Plains NJ 17-29-30  Boonton Radio Corp  Intervale Rd Boonton NJ  26  Boulin Instrument Corp  10 1 St Pelham NY  Bristol Co  P O Box 1790 ElTT  British Industries Corp  80 Shore Rd Port Washington NY  18-25  Britos Corp  80 Shore Rd Port Washington NY  18-25  Britos Corp  80 Shore Rd Port Washington NY  18-25  Bring Name York Endustries Corp  80 Shore Rd Port Washington NY  18-25  Bring Name York Endustries Corp
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif I-L-S Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY International Instruments Inc Box 2954 New Haven 15 Conn Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa Kay Electric Co 14 Maple Ave Pine Brook NJ Lampkin Labs Inc RFD 1 Bradenton Fla Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY Larson Instrument Co 24 Orchard St Tarrytown NY Marconi Instruments Ltd 44 New St New York 4 NY Marion Electrical Instrument Co Grenier Field Manchester NH Measurements Corp Boonton NJ 5	MEASUREMENT  Meters, ammeter	247 Crooks Ave Clifton NJ  Beta Electric Div Sorensen Co  333 E 103 St New York 29 NY  B & H Instrument Co  3479 W Vickery Blvd  Ft Worth 7 Texns  Biddle Co James G  1316 Arch St Philadelphia 7 Pa  7-12-21  Bird Electronic Corp  1800 E 38 St Cleveland 14 Ohio  31  Botton Labs Inc W Main St Bolton Mass  Boonton Electronics Corp  738 Speedwell Ave Morris Plains NJ 17-29-30  Boonton Radio Corp  Intervale Rd Boonton NJ  26  Booth Co Arthur E  265 Alexandria Ave Los Angeles 4 Calif 24  Boulin Instrument Corp  10 1 St Pelham NY  28  British Industries Corp  80 Shore Rd Port Washington NY  Bruno-New York Industries Corp  460 W 34 St New York I NY  21-30
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif I-L-S Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY International Instruments Inc Box 2954 New Haven 15 Conn Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa 47-37 Austell Pl Long Island City 1 NY Lampkin Labs Inc RFD 1 Bradenton Fla Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY Larson Instrument Co 24 Orchard St Tarrytown NY Marconi Instrument Ldd 44 New St New York 4 NY Marconi Electrical Instrument Co Grenier Field Manchester NH Measurements Corp Boonton NJ Melody Master Mfg Co	MEASUREMENT  Meters, ammeter Meters, capacitance Meters, conductance Meters, d'arsonval Meters, flux Meters, frequency Meters, galvanometer Meters, impedance Meters, kilovolt Meters, kilovolt Meters, kilowatt Meters, microampere Meters, microampere Meters, microfarad Meters, microvolt Meters, milliampere Meters, milliovolt Meters, millivolt Meters, multimeter Meters, multimeter Meters, multimeter Meters, multimeter	247 Crooks Ave Clifton NJ  Beta Electric Div Sorensen Co  333 E 103 St New York 29 NY  B & H Instrument Co  3479 W Vickery Blvd  Ft Worth 7 Texns  Biddle Co James G  1316 Arch St Philadelphia 7 Pa  7-12-21  Bird Electronic Corp  1800 E 38 St Cleveland 14 Ohio  31  Botton Labs Inc W Main St Bolton Mass  Boonton Electronics Corp  738 Speedwell Ave Morris Plains NJ 17-29-30  Boonton Radio Corp  Intervale Rd Boonton NJ  26  Booth Co Arthur E  265 Alexandria Ave Los Angeles 4 Calif 24  Boulin Instrument Corp  10 1 St Pelham NY  28  British Industries Corp  80 Shore Rd Port Washington NY  Bruno-New York Industries Corp  460 W 34 St New York I NY  21-30  21-30  10-13  10-1
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif LI-S Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY International Instruments Inc Box 2954 New Haven 15 Conn Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa 47-37 Way Electric Co 14 Maple Ave Pine Brook NJ Lampkin Labs Inc RFD 1 Bradenton Fla Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY Larson Instrument Co 24 Orchard St Tarrytown NY Marconi Instruments Ltd 44 New St New York 4 NY Marion Electrical Instrument Co Grenier Field Manchester NH Measurements Corp Boonton NJ Melody Master Mfg Co 2842 N Cicero Ave Chicago 44 Ill 2-7-	MEASUREMENT  Meters, ammeter Meters, capacitance Meters, conductance Meters, d'arsonval Meters, electrometer Meters, frequency Meters, galvanometer Meters, impedance Meters, kilovolt Meters, kilovolt Meters, microampere Meters, microampere Meters, microfarad Meters, microvolt Meters, microvolt Meters, milliampere Meters, milliampere Meters, milliampere Meters, multiplier 15	247 Crooks Ave Clifton NJ  Beta Electric Div Sorensen Co  333 E 103 St New York 29 NY  B & H Instrument Co  3479 W Vickery Blvd  Ft Worth 7 Texas  Biddle Co James G  1316 Arch St Philadelphia 7 Pa  7-12-21  Bird Electronic Corp  1800 E 38 St Cleveland 14 Ohio  31 Bolton Labs Inc W Main St Bolton Mass  Boonton Electronics Corp  738 Speedwell Ave Morris Plains NJ 17-29-30  Boonton Radio Corp  Intervale Rd Boonton NJ  26 Boulin Instrument Corp  10 1 St Pelham NY  28 Bristol Co  P O Box 1790 EITT 1-5-8-10-11-12-13-16  Waterbury 20 Conn 17-21-22-23-25-30-31  British Industries Corp  80 Shore Rd Port Washington NY  Bruno-New York Industries Corp  460 W 34 St New York 1 NY  21-30  Burton-Rogers Co  42 Carleton St
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif I-L-S Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY International Instruments Inc Box 2954 New Haven 15 Conn Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa 2-4-7 Kay Electric Co 14 Maple Ave Pine Brook NJ Lampkin Labs Inc RFD 1 Bradenton Fla Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY Larson Instrument Co 24 Orchard St Tarrytown NY Marconi Instruments Ltd 44 New St New York 4 NY Marion Electrical Instrument Co Grenier Field Manchester NH Measurements Corp Boonton NJ Melody Master Mfg Co 2842 N Cicero Ave Chicago 44 III 2-7- Meters Inc	### Meters, ammeter	247 Crooks Ave Clifton NJ  Beta Electric Div Sorensen Co  333 E 103 St New York 29 NY  B & H Instrument Co  3479 W Vickery Blvd  Ft Worth 7 Texns  Biddle Co James G  1316 Arch St Philadelphia 7 Pa  7-12-21  Bird Electronic Corp  1800 E 38 St Cleveland 14 Ohio  Bolton Labs Inc W Main St Bolton Mass  Boonton Electronics Corp  738 Speedwell Ave Morris Plains NJ 17-29-30  Boonton Radio Corp  Intervale Rd Boonton NJ  265 Alexandria Ave Los Angeles 4 Calif 24  Boulin Instrument Corp  10 1 St Peham NY  Bristol Co  P O Box 1790 EITT 1-5-8-10-11-12-13-16  Waterbury 20 Conn 17-21-22-23-25-30-31  British Industries Corp  80 Shore Rd Port Washington NY  Briton-Row York Industries Corp  460 W 34 St New York 1 NY  21-30  Burton-Rogers Co  42 Carleton St  Combridge 42 Mass  1-4-13-16-17-28-36
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Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif L-S Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY International Instruments Inc Box 2954 New Haven 15 Conn Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa 2-4-7 Kay Electric Co 14 Maple Ave Pine Brook NJ Lampkin Labs Inc RFD 1 Bradenton Fla Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY Larson Instrument Co 24 Orchard St Tarrytown NY Marconi Instrument Etd 44 New St New York 4 NY Marion Electrical Instrument Co Grenier Field Manchester NH Measurements Corp Boonton NJ Melody Master Mfg Co 2842 N Cicero Ave Chicago 44 Ill 2-7-Meters Inc Mill Lane Waterford Conn Mine Safety Appliances Co 201 N Braddock Ave Pittsburgh 8 Pa 1-2-7- Muirhead & Co Ltd Beckenham Kent England Muirhead Instruments Inc 677 5 Ave New York 22 NY Non-Linear Systems Inc Del Mar Airport Del Mar Calif Northeast Electronics Corp P O Box 425 Concord NH Northern Radio Co 143 W 22 St New York 11 NY Otarion Inc 185 Ashford Ave Dobbs Ferry NY Pace Electrical Instrument Co 70-31 84 St Glendale 27 LI NY Penn-East Eng'g Corp Willow St Kutztown Pa Phaostron Instrument & Electronic Co 151 Pasadena Ave S Pasadena Calif Potter Aeronautical Corp P O Box 852 Union NJ Precision Apparatus Co	### Meters, ammeter	247 Crooks Ave Clifton NJ   25
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif I-I-S Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY International Instruments Inc Box 2954 New Haven 15 Conn Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa 2-4-7 Kay Electric Co 14 Maple Ave Pine Brook NJ Lampkin Labs Inc RFD 1 Bradenton Fla Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY Larson Instrument Co 24 Orchard St Tarrytown NY Marconi Instruments Ltd 44 New St New York 4 NY Marion Electrical Instrument Co Grenier Field Manchester NH Measurements Corp Boonton NJ Melody Master Mfg Co 2842 N Cicero Ave Chicago 44 Ill 2-7- Meters Inc 5353 N Keystone Ave Indianapolis 20 Ind Metronix Inc Mill Lane Waterford Conn Mine Safety Appliances Co 201 N Braddock Ave Pittsburgh 8 Pa 1-2-7- Muirhead & Co Ltd Beckenham Kent England Muirhead Instruments Inc 677 5 Ave New York 22 NY Non-Linear Systems Inc Del Mar Airport Del Mar Calif Northeast Electronics Corp P O Box 425 Concord NH Northern Radio Co 143 W 22 St New York 11 NY Otarion Inc 185 Ashford Ave Dobbs Ferry NY Pace Electrical Instruments Co 70-31 84 St Glendale 27 LI NY Pecision Apparatus Co 70-31 44 St Glendale 27 LI NY Precision Apparatus Co 70-31 44 St Glendale 27 LI NY	## Meters, ammeter	247 Crooks Ave Clifton NJ   25
Hoyt Electrical Instrument Works 42 Carleton St Cambridge 42 Mass Hupp Instru/mation Co 2119 Sepulveda Blvd Los Angeles 25 Calif L-S Instrument Corp 4525 W 160 St Cleveland 11 Ohio Industrial Test Equipment Co 55 E 11 St New York 3 NY International Instruments Inc Box 2954 New Haven 15 Conn Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa 2-4-7 Kay Electric Co 14 Maple Ave Pine Brook NJ Lampkin Labs Inc RFD 1 Bradenton Fla Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY Larson Instrument Co 24 Orchard St Tarrytown NY Marconi Instrument Etd 44 New St New York 4 NY Marion Electrical Instrument Co Grenier Field Manchester NH Measurements Corp Boonton NJ Melody Master Mfg Co 2842 N Cicero Ave Chicago 44 Ill 2-7-Meters Inc Mill Lane Waterford Conn Mine Safety Appliances Co 201 N Braddock Ave Pittsburgh 8 Pa 1-2-7- Muirhead & Co Ltd Beckenham Kent England Muirhead Instruments Inc 677 5 Ave New York 22 NY Non-Linear Systems Inc Del Mar Airport Del Mar Calif Northeast Electronics Corp P O Box 425 Concord NH Northern Radio Co 143 W 22 St New York 11 NY Otarion Inc 185 Ashford Ave Dobbs Ferry NY Pace Electrical Instrument Co 70-31 84 St Glendale 27 LI NY Penn-East Eng'g Corp Willow St Kutztown Pa Phaostron Instrument & Electronic Co 151 Pasadena Ave S Pasadena Calif Potter Aeronautical Corp P O Box 852 Union NJ Precision Apparatus Co	### Meters, ammeter	247 Crooks Ave Clifton NJ   25

DeJur-Amsco Corp Electronic Sales Div	Howell Instrument Co 3101 Trinity St Ft Worth 7 Texas 8	Non-Linear Systems Inc Del Mar Airport
45-01 Northern Blvd 1-4-8-10-13-15-16	Hoyt Electrical Instrument Works	Del Mar Calif 15-17-21-30-33
Long Island City 1 NY 17-18-22-23-30 Delaware Products Co	42 Carleton St Cambridge 42 Mass 1-4-13-16-17-23-30	Northeast Electronics Corp PO Box 425 Concord NH 1-21-30-31
300 Broadway Camden 3 NJ 33	Cambridge 42 Mass 1-4-13-16-17-23-30 Hycon Mfg Co	Northeastern Eng'g Inc
Deltron Inc 2905 N Leithgow St Philadelphia 33 Pa 24	707 S Raymond Ave	25 S Bedford St Manchester NH 18-30
DeMornay-Bonardi Corp	Pasadena Calif 29-30-33	Norton Electrical Instrument Co 71 Hilliard St Manchester Conn 1-30-31
780 S Arroyo Pkwy Pasadena Calif 9 Dittmore-Freimuth Corp	Industrial Control Co 805 Albin Ave Lindenhurst LI NY 17-30	Nuclear-Electronics Corp
2517 E Norwich St Milwaukee 7 Wisc 1-30-31	Industrial Development Labs Inc	2632 W Cumberland St Philadelphia 32 Pa
Donner Scientific Co 888 Galindo St Concord Calif 35	17 Pollock Ave Jersey City 5 NJ 2-9	Oltronix Co
Dudek & Co R C	Industrial Devices Inc 982 River Rd Edgewater NJ 30	235 Underwood Dr Atlanta 5 Ga 1-8-16-17-30-31
407 N Maple Dr Beverly Hills Calif 1-4-13-16-23-30	Industrial Instruments Inc	Atlanta 5 Ga 1-8-16-17-30-31 Pace Electrical Instruments Co
Du Mont Labs Inc Allen B	89 Commerce Rd Cedar Grove NJ 12-21	70-31 84 St 1-4-8-13-16-17-
760 Bloomfield Ave Clifton NJ 5-7-17-29 Dunlap Electronics	Industrial Test Equipment Co 55 E 11 St New York 3 NY 9-24-25-31	Glendale 27 LI NY Pameco Mill Lane
764 9 St Des Moines 14 Iowa 15-21-29-30	Instrument Electronics Corp	Waterford Conn 29
Dyna-Empire Inc 1075 Stewart Ave Garden City LI NY 6	90 Main St Port Washington NY 29 Instruments Inc	Parker Lectronics Co 130 Cutter Mill Rd
Eastern Specialty Co	122 N Madison St Tulsa Okla 2	Great Neck NY 1-4-16-17-23-30
3617 N 8 St Philadelphia 40 Pa 24	International Instruments Inc	Penn-East Eng'g Corp Willow St Kutztown Pa
Electric Design & Mfg Co Jefferson St 1-4-10-13	Box 2954 New Haven 15 Conn 1-4-13-16-17-18-30	Phaostron Instrument & Electronic Co
Burlington Iowa 16-17-23-30	Irwin Labs	151 Pasadena Ave 1-4-10-13-15-16-
Electro Impulse Lab Inc	1238 S. Gerhart Ave Los Angeles 22 Calif 6	S Pasadena Calif Phileo Corp Accessory Div
208 River St Red Bank NJ 27 Electro Instruments Inc	Jackson Electrical Instrument Co 18 S Patterson Blvd Dayton 2 Ohio 29	"A" & Allegheny Ave
3794 Rosecrans St San Diego 10 Calif 33	Jackson Electronics Inc	Philadelphia 34 Pa Photohell Co
Electro-Mechanical Instrument Co 8 & Chestnut St	23 Woodcrest Ra West Chester Pa 1-9-29 Jennings Radio Mfg Corp	13 Vesey St New York 7 NY
Perkasie Pa 1-13-16-17-21-22-23-30	970 McLaughlin Ave San Jose 8 Calif 29	Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY
Electronic Associates Inc Long Branch NJ 33	Johnson Aircraft Eng'g Co M J Box 10 Morristown Airport	Potter Aeronautical Corp
Electronic Designs Inc	Morristown NJ 8-13-21	PO Box 532 Union NJ
28 School St Yonkers NY 29 Electronic Instrument Co	Kaiser Aircraft & Electronics Corp	Precise Development Corp 2 Neil Ct Occanside NY 2-10-29
84 Withers St Brooklyn 11 NY 18-29	Toledo Electronics Div PO Box 437 Toledo Ohio 33	Precision Apparatus Co
Electronic Measurements Co Lewis St & Maple Ave Eatontown NJ 17-30	Kay Electric Co	70-31 84 St 1-4-8-13-16-17- Glendale 27 LI NY 18-23-29-30
Electronic Measurements Corp	14 Maple Ave Pine Brook NJ 17 Keithley Instruments Inc	Precision Meter Co
625 Broadway New York 12 NY 16-21-29-30 Electronic Specialty Co	12415 Euclid Ave 1-5-8-10-12-13-15-	126 Greenpoint Ave Brooklyn 22 NY 1-4-8-15-16-17-23-30
5121 San Fernando Rd	Cleveland 6 Ohio 16-17-29-30-34	Brooklyn 22 NY 1-4-8-15-16-17-23-30 Pve Canada Ltd
Los Angeles 39 Calif 22 Electrovert Inc	King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio 1-4	82 Northline Rd
489 5 Ave New York NY 1-8-17-21-30-31	Kintel (Kay Lab)	Pyramid Instrument Corp
Elfa Instrument Center 55 Reade St New York 7 NY 1	5725 Kearny Villa Rd San Diego 12 Calif 8-13-15-16-29-30	630 Merrick Rd Lynbrook LI NY 33
Ellis Associates 67 Lincoln Ave Pelham NY 30	Knopp Inc	Q-V-S Inc 20 N 15 St
Empire Devices Products Corp 38-15 Bell Blvd Bayside 61 NY 20	4224 Holden St Oakland 8 Calif 24-30 Landsverk Electrometer Co	E Orange NJ 1-4-8-13-16-17-21-22-23
Engelhardt Eng'g Co 38 Burritt Ave S Norwalk Conn 29	550 W Garfield Ave Glendale 4 Calif 5	Radio City Products Co
Esterline-Angus Co	Larson Instrument Co 21 Orchard St Tarrytown NY 4	Centre & Glendale Sts Easton Pa 21-22-30 Radio Corp of America
P O Box 596 Indianapolis 6 Ind 1-7-10-11-16-17-25-30-31	Lavoie Labs Inc	Commercial Electronic Products
Federal Telephone & Radio Co	Matawan-Freehold Rd Morganville NJ 7 Lehigh Valley Electronics Eng'g & Mfg Co	Camden 2 NJ Radio Corp of America
Div IT&T 100 Kingsland Rd Clifton NJ 2-7-15	215 S 3 St Allentown Pa 9	415 S 5 St Harrison NJ
Feiler Eng'g & Mfg Co 8026 N Monticello Ave	Leitch Eng'g Corp	Radio Kits Inc 120 Cedar St New York 6 NY 29-31
Skokie III 18-21-29-30 Ferranti Electric Inc	326 Lincoln St Manchester NH 18-21-29-30	Pailway Communications Inc
30 Rockefeller Plaza New York 20 NY 34	Link Aviation Inc Binghamton NY 30	9351 E 59 St Raytown 33 Mo Ransom Research
Fischer & Porter Co 478 Warminster Rd Hatboro Pa 23	Macleod & Hanopol 10 Roland St Charlestown 29 Mass 12	323 W 7 St San Pedro Calif
Fisher Research Lab	Magnaflux Corp	Rawson Electrical Instrument Co
1961 University Ave Palo Alto Calif 29-34 Fluke Mfg Co John	7300 W Lawrence Ave Chicago 31 III 3-6	117 Potter St Cambridge 42 Mass 18-22-23-30-31-34
1111 W Nickerson St	Majestic Int'l Corp 79 Washington St Brooklyn 1 NY 29-30	Sangamo Electric Co
Seattle 99 Wash 1-22-30-31-35 Franklin Electronics Inc	Marconi Instruments Ltd	Springfield III 1-11-31-32 Saratoga Industries Congress & Ballston
Box 113 Bridgeport Pa 18-29-33	44 New St New York 4 NY 2-12-26-29 Marion Electrical Instrument Co	Aves Saratoga Springs NY
Freed Transformer Co 1718-36 Weirfield St Brooklyn 27 NY 12-26-29	Grenier Field 1-4-8-10-12-13-16-	Scherr Co George
Gary Wells Co	Manchester NH 17-18-21-23-30 Martindale Electric Co	200 Lafayette St New York 12 NY 28 Scientific Glass Apparatus Co
361 Rockaway Ave Valley Stream NY 7 General Electric Co	Box 617 Edgewater Branch	100 Lakewood Terrace
Apparatus Sales Div	Cleveland 7 Ohio 1-12-21-27-30-31 Maxson Instruments Div W L Maxson Corp	Bloomfield NJ Sensitive Research Instrument Corp 1-2-3-4-5-
1 River Rd 1-4-6-7-8-10-13 Schenectady 5 NY 16-17-21-23-24-25	47-37 Austell Pl Long Island City 1 NY 24	310 Main St 6-7-8-10-11-13-15-10-17-15-15-
General Radio Co	Measurements Corp Roonton NJ 20-30	New Rochelle NY 20-22-23-24-25-30-31-34
275 Massachusetts Ave Cambridge 30 Mass 5-7-12-22-29	Boonton NJ 20-30 Meters Inc	Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz 5-34
Gilmore Industries Inc	5353 N Keystone Ave 1-4-8-10-13-	Shasta Div Beckman Instruments Inc
5713 Euclid Ave Cleveland 3 Ohio 33	Indianapolis 20 Ind 16-17-21-23-30 Metronix Inc	PO Box 296 Station A Richmond Calif 7-29-30
G-M Laboratories Inc 4300 N Knox Ave Chicago 41 Ill 8	Mill Lane Waterford Conn 9-30	Shurite Meters
Goldak Co 1544 W Glenoaks Blvd Glendale 1 Calif 17	Midwestern Instruments PO Box 7186 Tulsa Okla  8	61 Hamilton St New Haven 8 Conn 1-16-21-23-30
Gray Instruments Co	Miller M C	Simpson Electric Co 1-4-7-8-10-13-14-
200 E Church Lane Philadelphia 44 Pa 17 Gulton Industries Inc	Box 721 E Saddle River Rd Allendale NJ 1-16-17-30	5200 W Kinxie St 15-16-17-18-21-22-
212 Durham Ave 1-8-12-13-15-16-	Millivac Instrument Corp	Sittler Corn
Metuchen NJ 17-18-21-23-30	2315 2 Ave Carman Schenectady NY 29-30	18 N Ada St Chicago 7 Ill 30
Hagan Chemicals & Controls Inc Hagan Bidg Pittsburgh 30 Pa 30	Mine Safety Appliances Co	Solartron Electronic Group Ltd Queens Rd Thames Ditton
Hathaway Instrument Div	201 N Braddock Ave Pittsburgh 8 Pa 20 Minneapolis-Honevwell Regulator Co	Surrey England 15-17-20-24-29-30
Hamilton Watch Co 5800 E Jewell Ave Denver 22 Colo 8	Industrial Div Wayne & Windrim Aves	Southern Instruments Computer Div Frimley Rd Camberley Surrey England 33
Heath Co	Philadelphia 44 Pa 17 Moseley Co F L	Southwest Products Inc
305 Territorial Rd 2-9-14-17-18- Benton Harbor Mich 21-29-30-31	409 N Fair Oaks Ave Pasadena Calif 30	Alamo Downs Rt 4 San Antonio Texas
Hewlett-Packard Co	Muirhead & Co Ltd  Beckenham Kent England 24	Southwestern Industrial Electronics Co
275 Page Mill Rd Palo Alto Calif 7-17-19-29-30	Muirhead Instruments Inc	2831 Post Oak Rd Houston 19 Texas 12-29 Specialty Eng'g & Electronics Co
Hewson Co	677 5 Ave New York 22 NY 7-9-20-24	79 Clifton Pl Brooklyn 38 NY
443 Broad St Newark 2 NJ 13 Hickok Electrical Instrument Co 1-2-3-4-7-8-10-	National Aircraft Corp Electronics Div 3411 Tulare Ave Burbank Calif 33	Sperry Gyroscope Co Div Sperry Rand Corp Great Neck NY 7-9-31
10514 Dupont Ave 11-12-13-14-15-16-17-18-19-	New York Air Brake Co	Sprague Electric Co
Cleveland 8 Ohio 20-21-22-23-24-27-29-30-31	230 Park Ave New York 17 NY 29	Marshall St North Adams Mass

Sterling Mfg Co	Alpha Instrument Co	Hickok Electrical Instrument Co 10514 Dupont Ave
1201 Wentworth Ave Cleveland Ohio 1-13-16-23-30	43 riempstead St New London Conn 14 Alto Scientific Co	Cleveland 8 Ohio 1-3-4-5-7-9-10-11-12-13
Stewart Instrument Co	855 Commercial St Palo Alto Calif 8	International Instruments Inc
6507 Grand River Detroit 8 Mich Sticht Co Herman H	Amerac Inc 116 Topsfield Rd Wenham Mass 15	Box 2954 New Haven 15 Conn 1-7 Irwin Labs
27 Park Pl New York 7 NY 7-12-21-34	American Machine & Foundry Co	1238 S Gerhart Ave Los Angeles 22 Calif 5
Stoddard Aircraft Radio Co	Defense Products Group	Jackson Electronics Inc
6644 Santa Monica Blvd Hollywood 38 Calif 20	1101 N Royal St Alexandria Va 6-7 American Metrix Corp	23 Woodcrest Rd West Chester Pa 1-3-7-9-10-11-12-14
Sullivan Ltd H W	40 Haddon Ave Camden 3 NJ 1-2-14	Jerrold Electronics Corp
80 Shore Rd Port Washington NY 2-3-7-8-9 Systron Corp	American Microwave Corp 11754 Vose St N Hollywood Calif 9-15	23 & Chestnut Sts Philadelphia 3 Pa 5-1
2055 Concord Blvd Concord Calif 7-30	Andrew Antenna Corp	Johnson Co E F Waseca Minn 14
Taffet Radio & TV Co	606 Beech St Whitby Ontario Can 12	Jones Electronics Co M C
27-05 Brooklyn-Queens Expressway W Woodside 77 NY 18	Anton Electronic Labs 1226 Flushing Ave Brooklyn 6 NY 3	185 N Main St Bristol Conn 11-13-14 J-V-M Eng'g Co
Taller & Cooper	Assembly Products Inc	4633 S Lawndale Ave Lyons Ill 7-9-14-15
75 Front St Brooklyn 1 NY 30-33 Telechrome Mfg Corp	Chesterland Ohio 1 Avionics Ltd	Kay Electric Co
28 Ranick Dr Amityville LI NY 10-24	PO Box 200 Niagara-on-the-Lake	14 Maple Ave Pine Brook NJ 3-7 Lampkin Labs Inc
Telectro Industries Corp 35-18 37 St Long Island City 1 NY 2-20	Ontario Canada 9	RFD 1 Bradenton Fla 6-7
Telematic Industries Inc	Barker & Williamson Inc Canal & Beaver Sts	Lavoie Labs Inc Matawan-Freehold Rd Morganville NJ 7
16 Howard Ave Brooklyn 7 NY 30 Teletronics Lab Inc	Bristol Pa 3-4-8-10-11-13-14	Lysco Mfg Co
54 Kinkel St	Beckman/Berkeley Div Beckman Instruments Inc	1401 Clinton St Hoboken NJ 8
Westbury NY 17-21-29-33	2200 Wright Ave Richmond 3 Calif 7-12	Magnaflux Corp 7300 W Lawrence Ave Chicago 31 Ill 5
Tensitron Inc Pin Hill Harvard Mass 28	Beckman/Helipot Corp	Majestic Int'l Corp
Texas Instruments Inc	Newport Beach Calif 7 Beede Electrical Instrument Co	79 Washington St Brooklyn 1 NY 8 Marconi Instruments Ltd
6000 Lemmon Ave Dallas 9 Texas 1-4-10-13-16-17-22-30	Penacook NH 1-3	44 New St New York 4 NY 6-13
Thermo Electric Co	B J Electronics Borg-Warner Corp 3300 Newport Ave Santa Ana Calif 6-14	Maxson Instruments Div W L Maxson Corp 47-37 Austell Pl Long Island City 1 NY 12
109 5 St Saddle Brook NJ 17 Topp Industries Inc	Blonder-Tongue Laboratories	Measurements Corp
5255 W 102 St	9-25 Alling St Newark 2 NJ 5 Bogart Mfg Corp	Boonton NJ 8-10 Mico Instrument Co
Los Angeles 45 Calif 7 Transitron Inc	315 Seigel St Brooklyn 6 NY 7	80 Trowbridge St Cambridge 38 Mass 15
186 Granite St Manchester NH 12	Bolton Labs Inc	Microwave Associates Inc Burlington Mass 7-9-14
Trio Labs Inc	W Main St Bolton Mass 5-7-8-9-10-13-14-15	Millen Mfg Co James
4025 Merrick Rd Seaford NY 29 Triplett Electrical Instrument Co	Boonton Electronics Corp	150 Exchange St Malden 48 Mass 7-8-14
Harmon Rd 1-2-4-12-13-16-17-	738 Speedwell Ave Morris Plains NJ 3-4-8-11	Narda Corp 160 Herricks Rd
Bluffton Ohio 21-23-29-30-31 Union Switch & Signal Div	Browning Labs Inc	Mineola NY 7-9-13-14-15
Westinghouse Air Brake Co	750 Main St Winchester Mass 6-14 Bruno-New York Industries Corp	Nems-Clarke Inc 919 Jesup-Blair Dr Silver Spring Md 5
Braddock Ave Pittsburgh 18 Pa 18 U S Gauge Div American Machine & Metals	460 W 34 St New York 1 NY 13 Brunswick Instruments	Northeast Electronics Corp
Sellersville Pa 1	PO Box 813 New Brunswick NJ 11	PO Box 425 Concord NH 11 Polarad Electronics Corp
Varo Mfg Co 2201 Walnut St Garland Texas 7	Budelman Radio Corp 375 Fairfield Ave Stamford Conn 6-7-13	43-20 34 St Long Island City 1 NY 5-9-14
Victoreen Instrument Co	Calif Technical Industries	Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY 2-7-9-13-14
5806 Hough Ave Cleveland 3 Ohio 5 Voron & Co George	1421 Old County Rd Belmont 10 Calif 14	Press Wireless Labs Inc
835 N 19 St Philadelphia 30 Pa 18	Chemalloy Electronics Corp Gillespie Airport Santee Calif 9	25 Prospect P1 W Newton 65 Mass 8 Pye Canada Ltd
WacLine Inc 35 S St Clair St 1-2-4-5-8-9-10-13-15-16-17-	Chicago Industrial Instrument Co	82 Northline Rd
Dayton 2 Ohio 18-23-28-30-34	865 N Sangamon St Chicago 22 III 1 Cinema-Television Ltd	Radar Design Corp
Waters Mfg Inc Boston Post Rd 1-4-7-13-15-16-17-	Worsley Bridge Rd Lower Sydenham	210 5 Ave New York 16 NY 7-15
Wayland Mass 21-22-23-30	London SE 26 England 7 Daven Co	Radiation Inc PO Box 37 Melbourne Fla 7
Waveforms Inc 333 6 Ave New York 14 NY 30	Route 10 Livingston NJ 2	Radio Corp of America Commercial Electronic Products
Welch Mfg Co W M	DeMornay-Bonardi Corp 780 S Arroyo Pkwy Pasadena Calif 7-9-14	Camden 2 NJ 5-13
1515 Sedgwick St 1-4-8-10-13-16-17- Chicago 10 Ill 21-23-25-30-31	Diamond Antenna & Microwave Corp	Radio Kits Inc 120 Cedar St New York 6 NY 8
Western Electro Acoustic Lab Inc	7 North Ave Wakefield Mass 2-7-9-12-15 Douglas Microwave Co	Radion Corp
11789 San Vicente Blvd Los Angeles 49 Calif 29	252 E 3 St Mt Vernon NY 7-9	1130 W Wisconsin Ave Chicago 14 Ill 5 Rich Electronics Inc
Westinghouse Electric Corp	Du Mont Labs Inc Allen B 760 Bloomfield Ave Clifton NJ 1	212 NW 8 Ave Miami 36 Fla 5
PO Box 868 1-4-7-8-10-11-12-13-16-17-18- Pittsburgh 30 Pa 21-23-25-30-31-32	Dunlap Electronics	Rixon Electronics Inc 2414 Reedie Dr Silver Spring Md 10-14
Weston Electrical Instrument Corp Sub Daystrom Inc	764 9 St Des Moines 14 Iowa 14 Elco Mfg Co	RS Electronics Corp
614 Frelinghuysen Ave 1-4-7-8-17-18-21-	137 Herrick Rd New Hyde Park LI NY 9	435 Portage Ave Palo Alto Calif Sensitive Research Instrument Corp
Newark 12 NJ 23-25-29-30-31	Electro Impulse Lab Inc 208 River St Red Bank NJ 11-13	310 Main St New Rochelle NY 1-10
	Electrovert Inc	Simpson Electric Co 5200 W Kinzie St Chicago 44 Ill 1-3-5
50—METERS—RF	489 5 Ave New York NY 9 Empire Devices Products Corp	Solartron Electronic Group Ltd
Meters, ammeters, RF	38-15 Bell Blvd Bayside 61 NY 4-5-10	Queens Rd Thames Ditton Surrey England 2-14
Meters, attenuation	Engineering Associates 434 Patterson Rd Dayton 9 Ohio 10	Sperry Gyroscope Co Div Sperry Rand Corp
Meters, decibel	Federal Telephone & Radio Co Div IT&T	Great Neck NY 2-7-9-14-15 Spivey Inc James S
Meters, distortion 4	100 Kingsland Rd Clifton NJ 5-6-7-15 Frequency Standards	4908 Hampden Lane Washington 14 DC 7
Meters, field strength 5	P O Box 504 Asbury Park NJ 7-9-15	Stoddart Aircraft Radio Co 6644 Santa Monica Blvd
Meters, FM deviation A	F-R Machine Works Inc Electronic & X-Ray Div	Hollywood 38 Calif 5-10
Meters, frequency	26-12 Borough Pl Woodside 77 NY 15	Sullivan Ltd H W  80 Shore Rd Port Washington NY  7-8
Meters, microwave 9	General Communication Co 677 Beacon St Boston 15 Mass 7-13	Telechrome Mfg Corp
Meters, noise 10	General Electric Co Apparatus Sales Div	28 Ranick Dr Amityville LI NY 12 Telectro Industries Corp
Meters, output	River Rd Schenectady 5 NY 5 General Radio Co	35-18 37 St Long Island City 1 NY 5-10
Meters, phase	275 Massachusetts Ave	Telerad Mfg Corp 1440 Broadway New York 18 NY 7
Meters, standing wave ratio 14	Cambridge 39 Mass 4-6 General RF Fittings Inc	Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas 1
Meters, wave	702 Beacon St Boston 15 Mass 7	Transvision Inc
Admittance Namco Corp	Gertsch Products Inc 11846 Mississippi Ave	460 North Ave New Rochelle NY Triplett Electrical Instrument Co
Marine St Farmingdale LI NY 7-9	Los Angeles 25 Calif 6-7	Harmon Rd Bluffton Ohio 1-3
Advance Electronics Lab Inc 249 Terhune Ave Passaic NJ 12	Gruen Industries Inc Time Hill Cincinnati 6 Ohio 7	WacLine Inc 35 S St Clair St
Airmec Ltd	Heath Co	Dayton 2 Ohio 1-2-3-7-9-11-13-15
High Wycombe Buckinghamshire England 12	305 Territorial Rd Benton Harbor Mich 8 Hewlett-Packard Co	Waveline Inc Passaic Ave Caldwell NJ 9-14
Airtron Inc	275 Page Mill Rd	Weinschel Eng'g
1101 W Elizabeth Ave Linden NJ 7	Palo Alto Calif 3-4-9-14	10503 Metropolitan Ave Kensington Md 2

Westinghouse Electric Corp	Baldwin-Lima-Hamilton Corp	Gaertner Scientific Corp
PO Box 868 Pittsburgh 30 Pa 1 Wheeler Labs Inc	Electronics & Instrumentation Div 42 4 Ave Waltham 54 Mass 18	1250 Wrightwood Ave Chicago 14 Ill 17 Gardner Lab Inc
122 Cutter Mill Rd Great Neck NY 9-15	Barber-Colman Co	P O Box 5728 Bethesda 14 Md
Winston Electronics Inc	Rock St Rockford III 27-28	Garrett Corp AiResearch Mfg Co Div 9851 Sepulveda Blvd Los Angeles 45 Calif 3
4312 Main St Philadelphia 27 Pa 5	Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass 30	Geartronics Corp
	Beckman/Berkeley Div	2514 Broadway Long Island City NY 26
51-METERS, SPECIAL	Beckman Instruments Inc	General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY 5-26-32-34
PURPOSE	2200 Wright Ave Richmond 3 Calif 6-7-11-13-23-24-26-29	General Radio Co
	Beckman Instruments Inc	275 Massachusetts Ave Cambridge 39 Mass 9-16-20-32
Colorimeters	Process Instruments Div	Gertsch Products Inc
Goussmeters 2	2500 Fullerton Rd Fullerton Calif 1-25	11846 Mississippi Ave Los Angeles 25 Calif 9
Mochmeters	Beckman & Whitley	Giannini & Co G M 918 E Green St Pasadena Calif 3-5-18-23-24
Magnetometers 4	973 E San Carlos Ave San Carlos Calif 26	Glen Falls Lab
Meters, acceleration 5	Beede Electrical Instrument Co Penacook NH 22-27	Box 685 Glen Falls NY 18-20 Gordon Enterprises
Meters, cable testing 6	Bendix Aviation Corp	5362 N Cahuenga Blvd N Hollywood Calif 1
Meters, counting rate 7	1104 Fisher Bldg Detroit 2 Mich 3-4-10	Gray Instrument Co 200 E Church Lane Philadelphia 44 Pa 34
Meters, deflection	Biddle Co James G 1316 Arch St Philadelphia 7 Pa 31	Gulton Industries Inc
Meters, dosimeter 10	B J Electronics Borg-Warner Corp	212 Durham Ave Metuchen NJ 18-27
Meters, elapsed time 11	3300 Newport Ave Santa Ana Calif 5-23	Hacker & Co Wm J 82 Beaver St New York 5 NY 1-21
Meters, electronic micrometer 12	Biophysical Instruments Inc 20 Herman St Philadelphia 44 Pa 10	Hagan Chemicals & Controls Inc
Meters, events-per-unit time 13	Boulin Instrument Corp	Hagan Bldg Pittsburgh 30 Pa 26-27
Meters, exposure for film 14	10 1 St Pelham NY 26 Branson Instruments Inc	Hall Sonic Eng'g Co 2402 2 St Peru Ill 18
Meters, flutter	37 Brown House Rd Stamford Conn 18	Havdon Co A W
Meters, foot candle 16	Bristol Co	232 W Elm St Waterbury 20 Conn 11-29 Haydon Mfg Co
Meters, goniometer 17	P O Box 1790 EITT 7-9-11-13-18 Waterbury 20 Conn 22-26-27-28-29	245 E Elm St Torrington Conn 11-29
Meters, industrial 18	Browning Labs Inc	Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif 13-24-26
Meters, infrared	750 Main St Winchester Mass 9 Brunswick Instruments	Hewson Co
Meters, light	P O Box 813 New Brunswick NJ 24	443 Broad St Newark 2 NJ 6
Meters, photoelectric 21	Brush Electronics Co Div Clevite Corp 3405 Perkins Ave Cleveland 14 Ohio 18	Hickok Electrical Instrument Co 10514 Dupont Ave
Meters, pyrometer	Calidyne Co 120 Cross St Winchester Mass 32	Cleveland 8 Ohio 8-9-20-26-27-28-36
Meters, ratio	Cambridge Instrument Co	Hill & Co E Vernon P O Box 189 Lake Geneva Wis 35
Meters, spectral	Grand Central Terminal New York 17 NY 22-27-34	Howell Instrument Co
Meters, tochometer 26	Central Scientific Co of Calif	3101 Trinity St Ft Worth 7 Texas 22 Hupp Instru/mation Co
Meters, thermocouple 27	1040 Martin Ave Santa Clara Calif 4-16 Chicago Industrial Instrument Co	2119 Sepulveda Blvd
Meters, thermometer 28	865 N Sangamon St Chicago 22 Ill 36	Los Angeles 25 Calif 7-11-13  Hycon Mfg Co
Meters, time	Cinema-Television Ltd Worsley Bridge Rd	707 S Raymond Ave Pasadena Calif 24
Meters, ultra violet 30	Lower Sydenham London S E 26 England 10	Ideal-Aerosmith Inc
Meters, vibrating reed 31	Cleveland Instrument Co	12909 S Cerise Ave Hawthorne Calif Illinois Testing Labs Inc
Meters, vibration 32	735 Carnegie Ave Cleveland 15 Ohio 12 Computer-Measurements Corp 5528 7-11-13-	420 N LaSalle St Chicago 18 Ill 22-27-28
Meters, x-ray intensity 33	Vineland Ave N Hollywood Calif 23-29	I-IS Instrument Corp 4525 W 160 St Cleveland 11 Ohio 13-26
Meter shunts	Consolidated Electrodynamics Corp 300 N Sierra Madre Villa Pasadena Calif 32	Industrial Test Equipment Co
Micromanometers	Cramer Controls Corp	55 E 11 St New York 3 NY 24
Maniphers, meler	Centerbrook Conn 11	Industrial Timer Corp
•		1407 McCarter Hwy Newark 4 NJ 11-25
Advanced Electronics Inc	Crescent Eng'g & Research Co 5440 N Peck Rd El Monte Calif 5-8-18-32	Instrument Development Labs Inc
94 Silas Deane Hwy Rocky Hill 9 Conn 32	Crescent Eng'g & Research Co 5440 N Peck Rd El Monte Calif 5-8-18-32 Davenport Mfg Co	Instrument Development Labs Inc 67 Mechanic St Attleboro Mass
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MB Mfg Co Div Textron Inc 1060 State St New Haven 11 Conn 32	Solartron Electronic Group Ltd Queens Rd Thames Ditton	Microphones, throat 17
Measurement Eng'g Ltd	Surrey England 6-27	Microphones, velocity 18
232 John St Arnprior Ontario Can 7-23 Meters Inc	Southwest Products Inc Alamo Downs Rt 4 San Antonio Texas 1	Microphones, wireless 19
5353 N Keystone Ave Indianapolis 20 Ind 22	Alamo Downs Rt 4 San Antonio Texas 1 Specialties Inc	Sound powered telephones 20
Miller M C	Skunks Misery Rd Syosset LI NY 20	Altec Lansing, Corp
Box 721 E Saddle River Rd Allendale NJ 34	Statham Labs Inc	1515 S Manchester Ave
Minn-Honeywell Regulator Co Aero Div	12401 W Olympic Blvd Los Angeles 64 Calif 5	Anaheim Calif 2-5-6-9-12-16-18 American Elite Inc
1433 Stinson Blvd	Stewart Instrument Co	7 Park Ave New York 16 NY 5-9-12-14
Minneapolis Minn 5-13-27 Minneapolis-Honeywell Regulator Co	6507 Grand River Detroit 8 Mich 7-13	Amplivox Ltd
Industrial Div	Sticht Co Herman H 27 Park Pl New York 7 NY 11-26-29-31	2 Bentiner St London W I England 2-8-11-14-15
Wayne & Windrim Ave	Sullivan Ltd H W	Astatic Corp
Philadelphia 44 Pa 22-27 Moeller Instrument Co	80 Shore Rd Port Washington NY 34	250 Harbor St 3-4-5-6-7-8-9-10-11-12
132-02 89 Ave Richmond Hill 18 NY 28	Systron Corp 2055 Concord Blvd Concord Calif 11-13-24-26	Conneaut Ohio 13-14-15-16-17-18-19 Atlantic Research Corp
M Ten Bosch Inc	Tatnall Measuring Systems Co	901 N Columbus St Alexandria Va 7-16-18
80 Wheeler Ave Pleasantville NY 5	Kimberton Rd Phoenixville Pa 12	Audio Instrument Co
Muirhead Instruments Inc 677 5 Ave New York 22 NY 32	Telechrome Mfg Corp 28 Ranick Dr Amityville LI NY 10-21	133 W 14 St New York 11 NY
National Instrument Labs Inc	Telectro Industries Corp	Audio Sears Corp Shepard Hill Rd 1-2-3-8-9-13-
6108 Rhode Island Ave Riverdale Md 35	35-18 37 St Long Island City 1 NY 15	Roxbury NY 14-15-16-20
Network Mfg Corp 213 W 5 St Bayonne NJ 6	Texas Instruments Inc 6000 Lemmon Ave	Automatic Electric Co
Non-Linear Systems Inc	Dallas 9 Texas 4-11-27-28-29-34	1033 W Van Buren St Chicago 7 Ill
Del Mar Airport	Thermo Electric Co	Barker & Williamson Inc Canal & Beaver Sts Bristol Pa 5
Del Mar Calif Norden-Ketay Corp	109 5 St Saddle Brook NJ 22-27 Topp Industries Inc	Brush Electronics Co
Commerce Rd Stamford Conn 3	5255 W 102 St Los Angeles 45 Calif 13	3405 Perkins Ave Cleveland 14 Ohio 5 Budelman Radio Corp
NRD Instrument Co	Tracerlab Inc	375 Fairfield Ave Stamford Conn 19
6425 Etzel Ave St Louis 14 Mo 23 Nuclear-Chicago Corp	1601 Trapelo Rd Waltham 54 Mass 10 Triplett Electrical Instrument Co	Burroughs Corp
223 W Erie St Chicago 10 Ill 7-31	Harmon Rd Bluffton Ohio 27	6071 2 Ave Detroit 32 Mich 20
Nuclear Corp of America Empire	Ultradyne Eng'g Labs	Camera Equipment Co 315 W 43 St New York 36 NY 5-7-9-16
State Bldg New York NY Nuclear Systems Div Budd Co	PO Box 3308 Albuquerque New Mex 5	Capps & Co
2950 Roberts Ave Philadelphia 32 Pa 10	Union Switch & Signal Div Westinghouse Air Brake Co	20 Addison Pl Valley Stream LI NY 5-7
Nucleonic Corp of America	Braddock Ave Pittsburgh 18 Pa 24	Century Lighting Inc 521 W 43 St New York 36 NY 19
196 Degraw St Brooklyn 31 NY 10 Optron Corp	Universal Atomics Corp	521 W 43 St New York 36 NY Chesapeake Instrument Corp
3526 State St Santa Barbara Calif 32	50 Bond St Westbury LI NY 23 Uniwave Inc	Shadyside Md 4-7-16
Pace Electrical Instruments Co	2 Marine St Farmingdale NY 26	Commercial Radio Sound Corp
70-31 84 St Glendale 27 Ll NY 18 Pantek Co	US Taximeter Corp	652 1 Ave New York 16 NY 8-9-15-18-19 Conn Telephone & Electric Corp
PO Box 212 El Segundo Calif 7-13	516 W 54 St New York 19 NY 26-29-32 Varian Associates	70 Brittania St
Perkin-Elmer Corp	611 Hansen Way Palo Alto Calif 4	Meriden Conn 1-2-3-13-15-20
Main Ave Norwalk Conn Peschel Electronics Inc	Victoreen Instrument Co	Continental Electronics Ltd 302 Oakland St Brooklyn 22 NY 20
13 Garden St New Rochelle NV e 10	5806 Hough Ave Cleveland 3 Ohio 7-33 Vocaline Co of America	Duotone Co Locust St Keyport NJ 11-12
Phaostron Instrument & Electronic Co	Old Saybrook Conn 29	Dyna-Empire Inc
Pasadena Ave S	Volk Radiochemical Co	1075 Stewart Ave
Phoenix Precision Instrument Co.	5412 N Clark St Chicago 40 Ill 10 Wabash Metal Products Co	Garden City LI NY 4-7-11-14-16
2008 N b St Philadelphia 10 Pa	1569 Morris St Wabash Ind 22	Electro-Sonic Labs 35-54 36 St Long Island City 6 NY 15-16
rnotopell Co	WacLine Inc	Electrovert Inc
43 Vesey St New York 7 NY 1-7-21 Photovolt Corp	35 S St Clair St	389 5 Ave New York NY 5-9-13-14-15
95 Madison Ave New York 16 NV	Dayton 2 Ohio 18-26-27-32-34-35 Walkirt Co	Electro-Voice Inc Cecil & Carrol Sts 2-3-4-5-6-7-8-9
Polarad Electronics Com	141 W Hazel St Inglewood 3 Calif 13	Buchanan Mich 12-15-16-17-18
43-20 84 St Long Island City 1 NY 24 Potter Aeronautical Corp	Waltham Watch Co	Elgin National Watch Co
PU Box 532 Union N.J	221 Crescent St Waltham 54 Mass 7-11-29 Weksler Thermometer Corp	Electronics Div 2435 N Naomi St Burbank Calif 2-3-7-9-12-15-16-18-19
Precision Apparatus Co	195 E Merrick Rd Freeport LI NY 28	Burbank Calif 2-3-7-9-12-15-16-18-19 Elgin National Watch Co
70-31 84 St Glendale 27 LI NY 18 Precision Meter Co	Welch Mfg Co W M	107 National St
126 Greenpoint Ave Brooklyn 22 NY 18-27	1515 Sedgwick St Chicago 10 III 4-14-16-20-21-22-26-27-34	Elgin III 3-4-5-6-7-9-12-15-16
FOU Applied Research Ltd	West Instrument Corp	Endeco Eng'g Development Co of Los Angeles 922 E Anaheim St
1500 O'Connor Dr Toronto 16 Canada Pye Canada Ltd 4	4363 W Montrose Ave Chicago 41 Ill 27-28	Wilmington Calif
82 Northline Rd	Westberg Mfg Co 144 S Coombs St Napa Calif 26	Ercona Corp
Toronto 16 Ontario Canada 2 10	Weston Electrical Instrument Corp	551 5 Ave New York 17 NY 7-9
Quality Control Corp	Sub Daystrom Inc	Femco Inc Irwin Pa
401 Broadway New York 13 NY 35 Quantametric Devices Inc	614 Frelinghuysen Ave Newark 12 NJ 11-14-16-22-26-27-28-34	Hal-Hen Co
Box 1107 Binghamton NY	Westronics Inc	36-14 11 St Long Island City 6 NY 7-11
Radar Engineers	3605 McCart Ft Worth Texas 26-32	Intelex Systems Inc
401 E 45 St Seattle 5 Wash Radio Frequency Labs Inc	Williamson Development Co 317 Main St W Concord Mass 19-22	22 Thames St New York 6 NY 14-15-18-20-29 International Research Associates
Boonton NJ 2	Yellow Springs Instrument Co	2221 Warwick Ave Santa Monica Calif 5
Ram Meter Inc	PO Box 106 Yellow Springs Ohio 28	Knowles Electronics Inc
1100 Hilton Rd Ferndale 20 Mich 34 Ransom Research	Zenith Optical Lah 1940 Great Neck Rd	9400 Belmont Franklin Park Ill 11 Linlar Inc
323 W 7 St San Pedro Calif 13 22 20	Copiague LI NY 11-26-27-28-29-34	4101 San Fernando Rd Glendale 4 Calif 9
Rawson Electrical Instrument Co	Zoomar Inc	Massa Laboratories Inc
117 Potter St Cambridge 42 Mass 2-4-27 Resistance Products Co	55 Sea Cliff Ave Glen Cove NY 14-20	5 Fottler Rd Hingham Mass 7-16 Michigan Electronics Inc
914 S 13 St Harrishurg Po		854 N Rockwell St Chicago 22 Ill 19
Revere Corp of America Wallingford Conn 7-23	52—MICROPHONES	North Electric Co
Samples Machine Co A M 208 Tazewell Pike Knoxville 18 Tenn 14	Handsets, telephone 1	553 S Market St Galion Ohio 1-20
Sangamo Electric Co	Microphones, aircraft type 2	Omega Instrument Co 103 E Altadena Dr Altadena Calif 5-16
Springfield III 18-34	Microphones, carbon 3	Palmer Inc M V
Scherr Co George	Microphones, ceramic 4	4002 Fruit Valley Rd Vancouver Wash 1
200 Lafayette St New York 12 NY 26 Scientific Glass Apparatus Co	Microphones, condenser 5	Permoflux Products Co 4101 San Fernando Rd
100 Lakewood Terrace Bloomfield NJ 22	Microphones, contact 6	Glendale 4 Calif 1-2-9-15
Sensitive Research Instrument Corp	Microphones, crystal 7	Philmore Mfg Co
310 Main St New Rochelle NY 2-8-24-27-33-36	Microphones, differential 8	113 University Pl New York 3 NY Photocon Research Products
Servo Corp of America	Microphones, dynamic 9	421 N Altadena Dr Pasadena Calif 5-16
2020 Jericho Turnpike	Microphones, electron 10	Plastic Mold & Eng'g Co
New Hyde Park NY 14-19 Servo-Recording Instruments Inc	Microphones, hearing aid 11	157 Clifford St Providence RI 11 Precision Hearing Aids
1815 W Van Buren St	Microphones, lapel 12	5157 W Grand Ave Chicago 39 Ill 9
Phoenix Ariz 7-10-12-23-31	Microphones, lip	Pye Canada Ltd
Simpson Electric Co 5200 W Kinzie St Chicago 44 Ill 11-18-27-28	Microphones, magnetic 14	82 Northline Rd Toronto 16 Ontario Canada 3
Slaughter Co	Microphones, naise cancelling 15	Pye Telecommunications Ltd
Young & College Sts Piqua 9 Ohio 18	Microphones, pressure 16	Newmarket Rd Cambridge England 3-19

Radio Corp of America Commercial	Cinch Mfg Corp	Permoflux Products Co 4101 San Fernando Rd Glendale 4 Calif 7
Electronic Products Camden 2 NJ 2-6-9-12-15-16-18	1026 S Homan Ave Chicago 24 Ill 2 Circon Component Co	Petroff Corp Peter A
Radio Corp of America	Santa Barbara Municipal Airport	127 Water St New York 5 NY Pye Telecommunications Ltd
415 S 5 St Harrison NJ 2-9 Remler Co	Columbus Process Co	Newmarket Rd Cambridge England 4
2101 Bryant St	2850 Southeastern Ave Columbus Ind	Racon Electric Co 1261 Broadway New York 1 NY 6
San Francisco Calif 2-4-8-11-15 Roanwell Corp	Communication Accessories Co 110 St & 71 Hwy Hickman Mills Mo 7	Radio Corp of America Commercial
662 Pacific St	Crest Transformer Corp	Electronic Products Camden 2 NJ 6-7 Richards Electrocraft Inc
Brooklyn 17 NY 1-2-3-9-13-14-15	1834 W North Ave Chicago 22 Ill 7 Cycle Transformer Corp	3739 N Kedzie Ave Chicago 18 Ill 2
Roflan Co Topsfield Mass 2-3-9-14-15	356 Glenwood Ave E Orange 11 N.J	RK Mfg Co P O Box 112 Marion III
Ronette Acoustical Corp	Dinion Coil Co	Roanwell Corp
190 Earle Ave Lynbrook NY 7-12 Shure Bros	Donnelly Mfg Co	662 Pacific St Brooklyn 17 NY 1-6
222 Hartrey Ave	580 Winter St Waltham 54 Mass 3	Roflan Co Topsfield Mass
Evanston III 1-3-4-7-9-11-12-14-16-18-19 Simpson Mfg Co Mark	Electrical Windings Inc 2015 N Kolmar Ave Chicago 39 III 7	Sangamo Electric Co Springfield Ill 7
32-28 49 St Long Island City 3 NY	Electro-Voice Inc	Saratoga Industries
Stephens Tru-sonic Inc 8538 Warner Dr Culver City Calif 16-19	Cecil & Carrol Sts Buchanan Mich 1-3 Elgin National Watch Co	Congress & Ballston Ave Saratoga Springs NY
Stromberg-Carlson Div General	107 National St Elgin III 3-6	Saratoga Springs NY Shure Bros
Dynamics Corp 100 Carlson Rd Rochester 3 NY 1-9-14-15	Epco Products Inc 2500 Atlantic Ave Brooklyn 7 NY 7	222 Hartrey Ave Evanston Ill 6
Telephonics Corp	Espey Mfg Co	Signal Transformer Co 902 Coney Island Ave Brooklyn 18 NY 7
Park Ave Huntington LI NY 1-2-3-8-9-13-14-15-20	Congress & Ballston Ave	Skysweeper Inc
Telex	Saratoga Springs NY Federal Shockmount Corp	P O Box 92 McHenry Ill 7 Smith Inc Herman H
1633 Eustis St St Paul 1 Minn 8-9-14-15	1060 Washington Ave New York 56 NY 4	2326 Nostrand Ave Brooklyn 10 NY 2
Tibbetts Industries Inc Colcord Ave Camden Me 7-11-14	Florman & Babb 68 W 45 St New York 36 NY 1	SNC Mfg Co P O Box 277 Oshkosh Wis 7
Turner Co	Freed Transformer Co	Snyder Mfg Co
909 17 St N E Cedar Rapids Iowa 3-4-7-9-12-14	1718-36 Weirfield St Brooklyn 27 NY 7 General Cement Mfg Co Div Textron Inc	22 & Ontario Sts Philadelphia 40 Pa 6 Standard Electrical Products Co
University Loudspeakers Inc	400 S Wyman St Rockford III 2	2240 E 3 St Dayton 3 Ohio 7
80 S Kensico Ave White Plains NY 3 Universal Microphone Co	General Transformer Co 18240 Harwood Ave Homewood III 7	Sterling Transformer Corp 297 N 7 St Brooklyn 11 NY 7
Box 55 Inglewood Calif 2-3-9-12-13-15-17	Goslin Electric & Mfg Co	Stromberg-Carlson Div General Dynamics
U S Instrument Corp P O Box 33E Charlottesville Va 1-3-14-20	2921 W Olive Ave Burbank Calif 7 Gramer & Halldorson Transformer Corp	Corp 100 Carlson Rd Rochester 3 NY 6 Switchcraft Inc
Wheeler Insulated Wire Co	2734 N Pulaski Rd Chicago 39 III	1328 N Halsted St Chicago 22 Ill 2
150 E Aurora St Waterbury 20 Conn 1-20 Winder Aircraft Corp of Florida	Grand Transformers Inc	Technicraft Labs Inc
P O Box 2397 Drane Field Lakeland Fla 2	Beechtree & Marion Sts Grand Haven Mich 7	Thomaston-Waterbury Rd Thomaston Conn 4 Telectro Industries Corp
53—MICROPHONE	Gremar Mfg Co 7 North Ave Wakefield Mass 2	35-18 37 St Long Island City 1 NY Telex
ACCESSORIES	7 North Ave Wakefield Mass 2 Highland Eng'g Co	1633 Eustis St St Paul 1 Minn 1
	90 Magnolia St Westbury NY 7	Tensor Electric Development Co 1873 Eastern Pkwy Brooklyn 33 NY
Microphone booms	iE Mfg 325 N Hoyne Ave Chicago 12 Ill 5	Todd Products Co
Microphone covers	Inductor Eng'g Inc	156 Gramatan Ave Mt Vernon NY 7 Transformer Technicians Inc
Microphone desk mounts 4	117 Schley Ave Lewes Del Industrial Transformer Corp	2608 N Cicero Ave Chicago 39 Ill 7
Microphone springs 5	Gouldsboro Pa 7	Transonic Inc 808 16 St Bakersfield Calif 7
Microphone stands 6	Insuline Corp of America 186 Granite St Manchester NH 2	Trenton Transformer Corp
Microphone transformers 7	Kenyon Transformer Co	P O Box 568 EI Trenton NJ Triad Transformer Corp
Accurate Spring Mfg Co 3811 W Lake St Chicago 24 Ill 5	840 Barry St New York 59 NY 7 Keystone Electronics Corp	4055 Redwood Ave Venice Calif 7
Ace Spring Mfg Co	423 Broome St New York 13 NY 2	Turner Co 909 17 St NE Cedar Rapids Iowa 6
78 W Houston St New York 12 NY 5	Keystone Products Co	TV Specialty Co
Aerovox Corp Pacific Coast Div 2724 S Peck Rd Monrovia Calif 7	904 23 St Union City NJ 7 Koiled Kords Inc	Union Electric Products Co
Altec Lansing Corp	1565 Dixwell Ave New Haven 14 Conn 2	24 Edison Pl Newark 2 NJ United Transformer Corp Pacific Div
1515 S Manchester Ave Anaheim Calif 6-7 Amphenol Electronics Corp	K-V Transformer Corp 20 E Franklin St Danbury Conn 7	4008 W Jeffers <mark>on</mark> Blvd
1830 S 54 Ave Chicago 50 Ill 2	Lab-Tronics Inc	Los Angeles 16 Calif United Transformer Corp
Arco Transformer & Electric Corp 1602 S Hanna St Ft Wayne 5 Ind 7	3656 N Lincoln Ave Chicago 13 III 2 Langevin Mfg Corp	150 Varick St New York 13 NY
Atlas Eng'g Co	47-37 Austell Pl	Uniwave Inc 2 Marine St Farmingdale NY 4
176 Blue Hill Ave Roxbury 19 Mass Atlas Sound Corp	Long Island City 1 NY Litton Industries of Calif	U S Electronics Corp
1449 39 St Brooklyn 18 NY 4-6	336 N Foothill Rd Beverly Hills Calif 7	278 Warren St Lyndhurst NJ 7 Utrad Corp
Audio Development Co 2833 13 Ave S Minneapolis Minn 7	Luxo Lamp Corp 102 Columbus Ave Tuckahoe NY	305 N Briant St Huntington Ind
Rallastran Corp	Mandex Mfg Co	Virginia Electronics Co River Rd & B & O R R
1701 N Calhoun St Ft Wayne Ind Barnes Co Wallace Div Associated	Melco Products Inc	Washington 16 DC
Spring Corp Bristol Conn 5	301 5 Ave S Minneapolis 15 Minn 7	Walsco Electronics Mfg Co 100 W Green St Rockford Ill
Basler Electric Co 601 5 St Highland Ill 7	Merit Coil & Transformer Corp 4427 N Clark St Chicago 40 Ill 7	Waltham Horological Corp 395 Lynnway Lynn Mass 2
Baughman Co E J	Microtran Co	Wheeler Insulated Wire Co
1914 N Cogswell Rd	145 E Mincola Ave Valley Stream NY 7 Mohawk Business Machines Corp	150 E Aurora St Waterbury 20 Conn 7 Western Int'l Co
El Monte Calif Better Coil & Transformer Corp	944 Halsey St Brooklyn 33 NY	45 Vesey St. New York 7 NY
El Monte Calif  Better Coil & Transformer Corp  Goodland Ind  7	944 Halsey St Brooklyn 33 NY 7 National Cine Equipment Inc	45 Vesey St New York 7 NY Winder Aircraft Corp of Florida
El Monte Calif Better Coil & Transformer Corp Goodland Ind Birphach Radio Co	944 Halsey St Brooklyn 33 NY National Cine Equipment Inc 209 W 48 St New York 36 NY Newcomb Audio Products Co	45 Vesey St. New York 7 NY
El Monte Calif Better Coil & Transformer Corp Goodland Ind Birnbach Radio Co 145 Hudson St New York 13 NY Cable Electric Products	944 Halsey St Brooklyn 33 NY National Cine Equipment Inc 209 W 48 St New York 36 NY Newcomb Audio Products Co 6824 Lexington Ave Los Angeles 38 Calif 7	Winder Aircraft Corp of Florida P O Box 2397 Drane Field Lakeland Fla
El Monte Calif  Better Coil & Transformer Corp Goodland Ind Birnbach Radio Co 145 Hudson St New York 13 NY Cable Electric Products 234 Daboll St Providence 7 RI Caledonia Electronics & Transformer Corp	944 Halsey St Brooklyn 33 NY National Cine Equipment Inc 209 W 48 St New York 36 NY Newcomb Audio Products Co 6824 Lexington Ave Los Angeles 38 Calif 7 Newcomb Spring Corp 177 E Hawthorne Ave Valley Stream NY 5	Winder Aircraft Corp of Florida P O Box 2397 Drane Field Lakeland Fla  54MICROWAVE
El Monte Calif Better Coil & Transformer Corp Goodland Ind Birnbach Radio Co 145 Hudson St New York 13 NY Cable Electric Products 234 Daboll St Providence 7 RI Caledonia Electronics & Transformer Corp P O Box 298 Caledonia NY 7	944 Halsey St Brooklyn 33 NY National Cine Equipment Inc 209 W 48 St New York 36 NY Newcomb Audio Products Co 6824 Lexington Ave Los Angeles 38 Calif 7 Newcomb Spring Corp 177 E Hawthorne Ave Valley Stream NY Newcomb Spring of Conn	45 Vesey St New York 7 NY Winder Aircraft Corp of Florida P O Box 2397 Drane Field Lakeland Fla  54MICROWAVE COMPONENTS
El Monte Calif  Better Coil & Transformer Corp Goodland Ind Birnbach Radio Co 145 Hudson St New York 13 NY Cable Electric Products 234 Daboll St Providence 7 RI Caledonia Electronics & Transformer Corp P O Box 298 Caledonia NY Calif Magnetic Control Corp 11922 Valerio St N Hollywood Calif 7	944 Halsey St Brooklyn 33 NY National Cine Equipment Inc 209 W 48 St New York 36 NY Newcomb Audio Products Co 6824 Lexington Ave Los Angeles 38 Calif 7 Newcomb Spring Corp 177 E Hawthorne Ave Valley Stream NY Newcomb Spring of Conn College Hwy Southington Conn New England Transformer Co	45 Vesey St New York 7 NY Winder Aircraft Corp of Florida P O Box 2397 Drane Field Lakeland Fla  54
El Monte Calif Better Coil & Transformer Corp Goodland Ind Birnbach Radio Co 145 Hudson St New York 13 NY 2 Cable Electric Products 234 Daboll St Providence 7 RI Caledonia Electronics & Transformer Corp P O Box 298 Caledonia NY Calif Magnetic Control Corp 11922 Valerio St N Hollywood Calif Camera Equipment Co	944 Halsey St Brooklyn 33 NY National Cine Equipment Inc 209 W 48 St New York 36 NY Newcomb Audio Products Co 6824 Lexington Ave Los Angeles 38 Calif 7 Newcomb Spring Corp 177 E Hawthorne Ave Valley Stream NY Newcomb Spring of Conn College Hwy Southington Conn New England Transformer Co 47 McGrath Hwy Somerville 43 Mass 7	## Vesey St New York 7 NY Winder Aircraft Corp of Florida P O Box 2397 Drane Field Lakeland Fla  ### 1-2-3  ##
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El Monte Calif Better Coil & Transformer Corp Goodland Ind Birnbach Radio Co 145 Hudson St New York 13 NY Cable Electric Products 234 Daboll St Providence 7 RI Caledonia Electronics & Transformer Corp P O Box 298 Caledonia NY Calif Magnetic Control Corp 11922 Valerio St N Hollywood Calif Camera Equipment Co 315 W 43 St New York 36 NY Camera Mart Inc 1845 Broadway New York 23 NY	944 Halsey St Brooklyn 33 NY National Cine Equipment Inc 209 W 48 St New York 36 NY Newcomb Audio Products Co 6824 Lexington Ave Los Angeles 38 Calif 7 Newcomb Spring Corp 177 E Hawthorne Ave Valley Stream NY Newcomb Spring of Conn College Hwy Southington Conn New England Transformer Co 47 McGrath Hwy Somerville 43 Mass 7 New York Transformer Co 3 Ave Alpha NJ NYT Electronics Inc	## Vesey St New York 7 NY Winder Aircraft Corp of Florida P O Box 2397 Drane Field Lakeland Fla  ### 1-2-3  ##
El Monte Calif Better Coil & Transformer Corp Goodland Ind Birnbach Radio Co 145 Hudson St New York 13 NY Cable Electric Products 234 Daboll St Providence 7 RI Caledonia Electronics & Transformer Corp P O Box 298 Caledonia NY Calif Magnetic Control Corp 11922 Valerio St N Hollywood Calif Camera Equipment Co 315 W 43 St New York 36 NY Camera Mart Inc 1845 Broadway New York 23 NY Cannon Electric Co	944 Halsey St Brooklyn 33 NY National Cine Equipment Inc 209 W 48 St New York 36 NY Newcomb Audio Products Co 6824 Lexington Ave Los Angeles 38 Calif Newcomb Spring Corp 177 E Hawthorne Ave Valley Stream NY Newcomb Spring of Conn College Hwy Southington Conn New England Transformer Co 47 McGrath Hwy Somerville 43 Mass New York Transformer Co 3 Ave Alpha NJ NYT Electronics Inc 2979 N Ontario St Burbank Calif Ortho Filter Corp	45 Vesey St New York 7 NY Winder Aircraft Corp of Florida P O Box 2397 Drane Field Lakeland Fla  54
El Monte Calif Better Coil & Transformer Corp Goodland Ind Birnbach Radio Co 145 Hudson St New York 13 NY Cable Electric Products 234 Daboll St Providence 7 RI Caledonia Electronics & Transformer Corp P O Box 298 Caledonia NY Calif Magnetic Control Corp 11922 Valerio St N Hollywood Calif Camera Equipment Co 315 W 43 St New York 36 NY Camera Mart Inc 1845 Broadway New York 23 NY Cannon Electric Co 3208 Humboldt St Los Angeles 31 Calif	944 Halsey St Brooklyn 33 NY National Cine Equipment Inc 209 W 48 St New York 36 NY Newcomb Audio Products Co 6824 Lexington Ave Los Angeles 38 Calif Newcomb Spring Corp 177 E Hawthorne Ave Valley Stream NY Newcomb Spring of Conn College Hwy Southington Conn New England Transformer Co 47 McGrath Hwy Somerville 43 Mass New York Transformer Co 3 Ave Alpha NJ NYT Electronics Inc 2979 N Ontario St Burbank Calif Ortho Filter Corp 196 Albion Ave Paterson 2 NJ 7	## Vesey St New York 7 NY Winder Aircraft Corp of Florida P O Box 2397 Drane Field Lakeland Fla  ### Table Provided Florida Lakeland Fla  ### Table Provided Florida 1-2-3  #### Table Provided Florida 1-2-3  #### Table Provided Florida 1-2-3  ##################################
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El Monte Calif Better Coil & Transformer Corp Goodland Ind Birnbach Radio Co 145 Hudson St New York 13 NY Cable Electric Products 234 Daboll St Providence 7 RI Caledonia Electronics & Transformer Corp P O Box 298 Caledonia NY Calif Magnetic Control Corp 11922 Valerio St N Hollywood Calif Camera Equipment Co 315 W 43 St New York 36 NY Camera Mart Ine 1845 Broadway New York 23 NY Cannon Electric Co 3208 Humboldt St Los Angeles 31 Calif Cannon Electric Co Eastern Div Pingree & Leavitt Sts Salem Mass CELCO Constantine Eng'g Labs Co P O Box 555 Mahwah NJ	944 Halsey St Brooklyn 33 NY National Cine Equipment Inc 209 W 48 St New York 36 NY Newcomb Audio Products Co 6824 Lexington Ave Los Angeles 38 Calif Newcomb Spring Corp 177 E Hawthorne Ave Valley Stream NY Newcomb Spring of Conn College Hwy Southington Conn Sev England Transformer Co 47 McGrath Hwy Somerville 43 Mass New York Transformer Co 3 Ave Alpha NJ NYT Electronics Inc 2979 N Ontario St Burbank Calif Ortho Filter Corp 196 Albion Ave Paterson 2 NJ Osborne Electronic Corp 712 S E Hawthorne Blvd Portland 14 Ore 7 Palo Alto Eng'g Co 620 Page Mill Rd Palo Alto Calif	45 Vessy St New York 7 NY Winder Aircraft Corp of Florida P O Box 2397 Drane Field Lakeland Fla  54
El Monte Calif Better Coil & Transformer Corp Goodland 1nd Birnbach Radio Co 145 Hudson St New York 13 NY Cable Electric Products 234 Daboll St Providence 7 RI Caledonia Electronics & Transformer Corp P O Box 298 Caledonia NY Calif Magnetic Control Corp 11922 Valerio St N Hollywood Calif Camera Equipment Co 315 W 43 St New York 36 NY Camera Mart Inc 1845 Broadway New York 23 NY Cannon Electric Co 3208 Humboldt St Los Angeles 31 Calif Cannon Electric Co Eastern Div Pingree & Leavitt Sts Salem Mass CELCO Constantine Eng'g Labs Co P O Box 555 Mahwah NJ Central Coil Co 1720 N Luett St Indianapolis 22 Ind	944 Halsey St Brooklyn 33 NY National Cine Equipment Inc 209 W 48 St New York 36 NY Newcomb Audio Products Co 6824 Lexington Ave Los Angeles 38 Calif 7 Newcomb Spring Corp 177 E Hawthorne Ave Valley Stream NY Newcomb Spring of Conn College Hwy Southington Conn New England Transformer Co 47 McGrath Hwy Somerville 43 Mass 7 New York Transformer Co 3 Ave Alpha NJ NYT Electronics Inc 2979 N Ontario St Burbank Calif 7 Ortho Filter Corp 196 Albion Ave Paterson 2 NJ 7 Osborne Electronic Corp 712 SE Hawthorne Blvd Portland 14 Ore 7 Palo Alto Eng'g Co 620 Page Mill Rd Palo Alto Calif Partridge Transformers Ltd Roebuck Rd Tolworth Surrey England	## Vesey St New York 7 NY Winder Aircraft Corp of Florida P O Box 2397 Drane Field Lakeland Fla    1-2-3
El Monte Calif Better Coil & Transformer Corp Goodland Ind Birnbach Radio Co 145 Hudson St New York 13 NY Cable Electric Products 234 Daboll St Providence 7 RI Caledonia Electronics & Transformer Corp P O Box 298 Caledonia NY Calif Magnetic Control Corp 11922 Valerio St N Hollywood Calif Camera Equipment Co 315 W 43 St New York 36 NY Camera Mart Inc 1845 Broadway New York 23 NY Cannon Electric Co 3208 Humboldt St Los Angeles 31 Calif Cannon Electric Co Eastern Div Pingree & Leavitt Sts Salem Mass CELCO Constantine Eng'g Labs Co P O Box 555 Mahwah NJ Central Coil Co	944 Halsey St Brooklyn 33 NY National Cine Equipment Inc 209 W 48 St New York 36 NY Newcomb Audio Products Co 6824 Lexington Ave Los Angeles 38 Calif Newcomb Spring Corp 177 E Hawthorne Ave Valley Stream NY Newcomb Spring of Conn College Hwy Southington Conn New England Transformer Co 47 McGrath Hwy Somerville 43 Mass New York Transformer Co 3 Ave Alpha NJ N'T Electronics Inc 2979 N Ontario St Burbank Calif Ortho Filter Corp 196 Albion Ave Paterson 2 NJ Osborne Electronic Corp 712 S E Hawthorne Blvd Portland 14 Ore 7 Palo Alto Eng'g Co 620 Page Mill Rd Palo Alto Calif 7 Partridge Transformers Ltd	45 Vessy St New York 7 NY Winder Aircraft Corp of Florida P O Box 2397 Drane Field Lakeland Fla  54

Flanges	Barker & Williamson Inc	Diamond Antenna & Microwave Corp
Horns	Canal & Beaver Sts Bristol Pa 11 Barkley & Dexter Laboratories	7 North Ave 1-2-3-5-8-9-12-13-15-23-25-2 Wakefield Mass 29-31-32-33-35-36-38-40-4
Isolators	50 Frankfort St Fitchburg Mass 1 Bart Mfg Corp	Dielectric Products Eng'g Co Raymond Me 1-3
Joints, fixed	227 Main St Belleville NJ 5-38 Bean & Co	Dittmore-Freimuth Corp
Joints, rotating	Morris Hyde Rd Yellow Springs Ohio 38	2517 E Dorwich St Milwaukee 7 Wis 2-18-19-3
Modulators, phase	Bell Aircraft Corp P O Box 1 Buffalo 5 NY 2-3-7-20	Dorne & Margolin
Modulators, pulse 22	Bendix Aviation Corp Pacific Div	29 New York Ave Westbury NY Douglas Microwave Co
Mounts 23	11600 Sherman Way N Hollywood Calif 11 Bendix Aviation Corp	252 E 3 St 1-3-8-9-12-13-15-2 Mt Vernon NY 36-38-40-4
Parabolas         24           Phasers         25	1104 Fisher Bldg Detroit 2 Mich 12 Bernco Engineering Corp	D & R Ltd
Probes	2320 S Tibbs Ave Indianapolis 41 Ind 2	402 E Gutierree St Santa Barbara Calif
Repeaters 27	Birtcher Corp Industrial Div 4371 Valley Blvd Los Angeles 32 Calif 9	D & S Mfg Co
Repeaters, passive 28	B J Electronics Borg-Warner Corp	424 Burk Ave Ridley Park Pa 1-12-1 Dunn Eng'g Associates
R-F heads	3300 Newport Ave Santa Ana Calif 32 Blaine Electronetics Inc	186 Massachusetts Ave Cambridge 39 Mass 3
Shuffers	14757 Keswick St Van Nuys Calif 1-15-24-41	Dwyer Eng'g Co
Slotted lines	Bogart Mfg Corp 315 Seigel St 1-2-3-5-8-12-13-15	Pine St Ext Nashua NH 1-11-2 Eitel-McCullough Inc
Switches 33	Brooklyn 6 NY 25-26-27-30-33-40-42 Bolton Labs Inc	798 San Mateo Ave San Bruno Calif
Terminations	W Main St Bolton Mass 3-41 Bomac Labs Inc	Elco Mfg Co 137 Herrick Rd 2-3-5-8-9-10-1
Turners	Salem Rd Beverly Mass 5-10-12	New Hyde Park LI NY 14-23-32-3
Waveguides, flexible 37	Brach Mfg Corp 200 Central Ave Newark 3 NJ 1-2	Electrical & Physical Instrument Corp 42-19 27 St Long Island City 1 NY 3-3
Waveguides, rigid 38	Browning Labs Inc	Electro Impulse Lab Inc 208 River St Red Bank NJ 3-3
Waveguide stands	750 Main St Winchester Mass 26 Budd Stanley Co	Electronic Specialty Co
Waveguide switches 40 Waveguide tests equipment 41	43-01 22 St 8-12-13-18-19	5121 San Fernando Rd Los Angeles 39 Calif 7-8-13-2
Waveguide windows 42	Long Island City 1 NY 26-30-33-38 Budelman Radio Corp	Electron-Radar Products
ACF Industries Nuclear Prods-Erco Div	375 Fairfield Ave Stamford Conn 12 Burnell & Co	4806 W Chicago Ave Chicago 51 III 1- Electrovert Inc
48 Lafayette St Riverdale Md 1	45 Warburton Ave Yonkers NY 11	489 5 Ave New York NY 1 Elektro Serv Co
Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 1	Burroughs Corp 6071 2 Ave Detroit 32 Mich 20	480 Johnson Ave Brooklyn 37 NY
Admittance Namco Corp	Calif Technical Industries	Elm Labs 10 Washington Ave
Marine St 1-3-5-8-9-12-13-14-15-16 Farmingdale LI NY 18-19-26-36-38-40-41	1421 Old County Rd Belmont 10 Calif 22-41 Canoga Corp	Hastings-on-Hudson NY
Advance Electronics Co	5955 Sepulveda Blvd 1-2-5-12-13	El-Rad Mfg Co 2800 W Cullom Ave Chicago 18 III 1
8510 North End Ave Oak Park 37 Mich 1 Aerovox Corp Crowley Div	Van Nuys Calif 17-19-20-29-31-36-41 Carad Corp	Emerson & Cuming Inc
1 Central Ave W Orange NJ 34	2850 Bay Rd Redwood City Calif 22 Cascade Research Corp	Emerson Electric Mfg Co
Ainslie Corp 312 Quincy Ave Quincy 69 Mass 1-15-23-24	53 Victory Lane Los Gatos Calif 12-17-20	8100 Florissant Ave St Louis 21 Mo Empire Devices Products Corp
Airborne Electronics Co 6813 Troost Ave N Hollywood Calif 2-15	Cavitron Electron Oscillator Co Div Short Wave Plastic Forming	38-15 Bell Blvd Bayside 61 NY Enflo Corp
Aircom Inc 1-2-3-4-5-7-8-9-10-11-12-14-15	355 N Newport Blvd Newport Beach Calif 5 Central Electronic Mfrs Inc Sub	Rte 38 at Airport Circle
1209 E Grand St Elizabeth NJ 16-18-19-23-25-26-29-30 31-33-34-35-36-37-38-40-41	Nuclear Corp of America 1-2-4-5-12	Pennsauken 11 NJ Essex Electronics Div NYT Electronics Inc
Air Transport Mfg Co 1114 N Sycamore Ave	2 Richwood Pl Denville NJ 15-38-42 CG Electronics Corp	7303 Atoll Ave N Hollywood Calif 1:
Los Angeles 38 Calif 38-39	305 Dallas St	Essex Electronics 550 Springfield Ave Berkeley Heights NJ 1
Airtron Inc 1101 W Elizabeth Ave 1-2-3-4-12-13-14-18	N E Albuquerque New Mex 1-5-12-13-30-31 CGS Laboratories Inc	Farnsworth Electronics Co Div IT&T
Linden NJ 19-23-29-33-36-37-38-40-42 Alford Mfg Co	391 Ludlow St Stamford Conn 5 Chemalloy Electronics Corp	3702 E Pontiac St Ft Wayne Ind 1-2 Federal Mfg & Eng'g Corp
299 Atlantic Ave Boston 10 Mass 16-32 Alpar Mfg Corp	Gillespie Airport Santee Calif 41	1055 Stewart Ave Garden City NY 38 Federal Shockmount Corp
2910 Spring St Redwood City Calif 1	Chu Associates 634 Waverly St Framingham Mass 1	1060 Washington Ave New York 56 NY
Alpha Metals Inc 56 Water St Jersey City 4 NJ 4	Clegg Labs Div Clegg Inc	Federal Telecommunication Labs Div IT&T 500 Washington Ave Nutley NJ
Amerac Inc 116 Topsfield Rd 1-2-3-4-5-7-8	Coaxial Connector Co	Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ 3-12-22-4
Wenham Mass 12-18-19-20-21-22-29-41 American Electronic Laboratories	37 N 2 Ave 1-2-3-8-12-16 Mt Vernon NY 18-26-32-34-38	Filmohm Corp
121 N 7 St Philadelphia 6 Pa 1-13	Coilcraft Inc	48 W 25 St New York 10 NY SFiltron Co
American Machine & Foundry Co Defense Products Group	Cary Ill Coil Winders Inc	10023 W Jefferson Blvd Culver City Calif 13
1101 N Royal St Alexandria Va 1-2-27-41 American Mica Radio Corp	New York Ave Westbury LI NY 11 Collins Radio Co	Filtron Co
235 Parker Ave Manasquan NJ 42	855 35 St N E Cedar Rapids Iowa 2-27-28	131-15 Fowler Ave Flushing 55 NY 29-22 Fisher Eng'g Inc
American Microwave Corp 11754 Vose St 1-2-3-11-15-17-27	Columbia Wire & Supply Co 2850 Irving Park Rd Chicago 18 Ill 2	P. O. Box 327 Huntington Ind 29 Fluorocarbon Products Inc Div U S
N. Hollywood Calif 28-29-36-38-41 American Radar Components Inc	Connector Corp of America	Gasket Co 602 N 10 St
Rt 10 Whippany NJ 14	Consolidated Productions Inc	Camden 1 NJ 2-14-17-34-38 Forbes & Wagner Inc
Amstron Corp 17 Felton St Waltham 54 Mass 5	Broward Int'l Airport Ft Lauderdale Fla 2-3	343 Central Ave Silver Creek NY 11 Forro Scientific Co
Andrew Antenna Corp 606 Beech St Whitby Ontario Can 1-5-12-15	Continental Electronics Mfg Co 4212 S Buckner Blvd	833 Lincoln St Evanston Ill 11
Andrew California Corp 941 E Marylind Ave	Dallas 27 Texas 20-21-22	Foto-Video Labs Inc 25 Amity St Little Falls NJ 41
Claremont Calif 1-5-12-13-14-15-24-38	Co-operative Industries Inc 100 Oakdale Rd Chester NJ 37	Frenchtown Porcelain Co Muirhead Ave Trenton 9 NJ 42
Andrew Corp 363 E 75 St Chicago 19 Ill 1-12-14-24-32-38	Corning Glass Works	Frequency Standards Inc
Applied Research Inc 163-07 Depot Rd Flushing 58 NY 13-34	Custom Components Inc	P O Box 504 Asbury Park NJ 5-8-12-13-29-36-41
A R F Products Inc	P O Box 248 Caldwell NJ 3 Dale Products Inc	Fretco Inc 406 N Craig St Pittsburgh 13 Pa 35
7627 Lake St River Forest III 41 Ark Eng'g Co	Columbus Nebr 41	F-R Machine Works Inc
431 W Tabor Rd Philadelphia 20 Pa 13 Asheville-Schoonmaker Mica Co	Dalmo Victor Co Div Textron Inc 1515 Industrial Way	Electronic & X-Ray Div 4-5-7-8-9-13-14 26-12 Borough Pi 15-21-22-26-29-31-32
900 Jefferson Ave Newport News Va 42	Belmont Calif 1-12-29-36-38	Woodside 77 NY 33-34-35-36-39-40-41
Astatic Corp 250 Harbor St Conneaut Ohio 29	Daven Co Route 10 Livingston NJ 3	Gabriel Electronics Div Gabriel Co 135 Crescent Rd
Authorized Mfrs Service Co 919 Wyckoff Ave Brooklyn 27 NY 41	Defiance Eng'g & Microwave Corp	Needham Heights 94 Mass 1-2-5-25-26-36
Automatic Electric Co	Beverly Airport 1-2-3-5-8-9-12-13-14-15 Beverly Mass 18-19-21-22-24-25-37-38	Gar Precision Parts Inc 703 Pacific St Stamford Conn 38
1033 W Van Buren St Chicago 7 Ill 34 Automatic Switch Co	Deltime Inc 608 Fayette Ave Mamaroneck NY 2-22-27	General Bronze Corp
Hanover Rd Florham Park NJ 33	DeMornay-Bonardi Corp 1-2-3-4-5-7-8-9-10	711 Stewart Ave 1-3-4-5-7-12-13 Garden City NY 15-36-38-41-42
Avion Div ACF Industries Inc 11 Park Pl Paramus NJ 20	780 S Arroyo Pkwy 12-13-15-16-21-22-23 Pasadena Calif 25-26-29-30-32-36-38	General Communication Co 677 Beacon St
Avionics Ltd P O Box 200 Niagara-on-the-Lake	39-40-41-42	Boston 15 Mass 1-3-5-12-13-29-33-40-41
Ontario Canada 3-4-8-12-25-29-32-35	Deutschmann Corp Tobe Norwood Mass 18	General Crystal Co P O Box 9 Burlington Wis 9

General Magnetics Inc 135 Bloomfield Ave Bloomfield NJ 20	Manson Laboratories Inc 207 Greenwich Ave Stamford Conn 22-41	Camden 2 NJ
General Precision Lab Inc	Marconi Instruments Ltd	Radio Industries Inc 5225 N Ravenswood Ave Chicago 25 Ill 11
63 Bedford Rd Pleasantville NY 1-5	44 New St New York 4 NY Mark Products Co	Raytheon Mfg Co Receiving & Cathode
General Radio Co 275 Massachusetts Ave	6412 W Lincoln Ave Morton Grove III	Ray Tube Operations 55 Chapel St
Cambridge 39 Mass 32	Maryland Electronic Mfg Corp 5009 Calvert Rd College Park Md 1-13-15	Newton 58 Mass
General RF Fittings Inc 702 Beacon St 1-2-3-4-5-8-9-12	Mathis Co G E	Raytheon Mfg Co 100 River St Waltham 54 Mass
702 Beacon St 1-2-3-4-5-8-9-12 Boston 15 Mass 14-26-31-32-35-36	6100 S Oak Park Ave Chicago 38 Ill 23	Raytheon Mfg Co Ceramic Sales
Glaser-Steers Corp	Maxson Instruments Div W. L. Maxson Corp. 47-37 Austell Pl Long Island City 1 NY 5	Foundry Ave Waltham Mass 42
20 Main St Belleville 9 NJ 20	Measurement Eng'g Ltd	Reed & Reese Inc 717 N Lake Ave Pasadena 6 Calif 20
G & M Equipment Co 7315 Varna Ave N Hollywood Calif 3-41	232 John St Arnprior Ontario Can 11	Reeves Instrument Corp
Good Electric Corp	Melpar Inc 3000 Arlington Blvd Falls Church Va 13	215 E 91 St New York 28 NY 3-37
Natick Mass 11	Meridian Metalcraft Inc	Research Development Mfg Inc 429 E Collom St Philadelphia 41 Pa 14-23-26
Goodrich Sponge Products B F Div B F Goodrich Co Canal St	8739 S Millergrove Dr 2-3-4-5-8-9-12-14 Whittier Calif 19-31-33-35-38	Rixon Electronics Inc
Shelton Conn 3	Metal Fabricators Corp	2414 Reedie Dr Silver Spring Md 8
Gordon Enterprises	73 Pond St Waltham 54 Mass 15	Robinson Machine Works 802 E 8 St New Albany Ind 9
5362 N Cahuenga Blvd N Hollywood Calif	Metals & Controls Corp General Plate Div 48 Forest St Attleboro Mass 38	Romac Products Co
N Hollywood Calif Hallicrafters Co	Metavac Inc	48-01 25 Ave Long Island City 3 NY 14-42
4401 W 5 Ave	45-68 162 St Flushing 58 NY 3	Ross Mfg Co 2538 Peterson Ave Chicago 45 Ill 11
Chicago 24 Ill 1-2-7-12-13-15-29	Micarta Fabricators Inc 5324 N Ravenswood Ave Chicago 40 Ill 9	RS Electronics Corp
Hall-Scott Inc Electronics Div 2950 N Ontario St Burbank Calif 24	Microflect Co	435 Portage Ave Palo Alto Calif 3-8-11
Hamner Electronics Co	2300 S 25 St Salem Ore 27-28 Microlab	Safetee Glass Co 4717 Stenton Ave Philadelphia 44 Pa 42
Princeton NJ 11	Okner Pkwy Livingston NJ 1-3-9-13-23-34-36	Sage Labs Inc 1-2-3-4-5-7-8-9-13
Hansen Electronics Co 7117 Santa Monica Blvd	Microphase Corp	30 Guinan St 15-16-23-24-26-29
Los Angeles 46 Calif 3-34	Box 1166 Greenwich Conn 5-12-13-35 Microwave Associates Inc 3-4-5-7-8-10-12	Waltham 54 Mass 30-33-36-40-41-42
Harvey-Wells Electronics Inc	Burlington Mass 13-15-17-26-30-40-42	Sanders Associates 95 Canal St Nashua NH 1-3-13
North St Southbridge Mass 5 Hewlett-Packard Co	Microwave Development Labs 92 Broad St Babson Park 57 Mass 5-12	Scientific-Atlanta Inc
275 Page Mill Rd	Miller Co J W	2162 Piedmont Rd N E Atlanta 9 Ga 1
Palo Alto Calif 3-5-8-17-23-26-32-41	5917 S Main St Los Angeles 3 Calif 11	Scientific Radio Products Inc 215 S 11 St Omaha Nebr 13
Holland Electronics 2133 Central Dr S East Meadow NY 3-34	Minneapolis-Honeywell Regulator Co Davies Labs Div	Seneca Falls Machine Co
Hoover Electronics Co	10721 Hanna St Beltsville Md	314 Fall St Seneca Falls NY 11
3640 Woodland Ave Baltimore 7 Md 41	Model Eng'g & Mfg Inc	Sierra Electronic Corp 2885 Bohannon Dr
Houston Fearless Div Color Corp of America 11801 W Olympic Blvd	FO Frederick St Huntington Ind 1-2-4-5-9-13-18-19-30	Menlo Park Calif 2-3-8-34-36
Los Angeles 64 Calif 23	Muter Co	Simpson Electric Ca
Hupp Electronics Co Div Hupp Corp	1200 S Michigan Ave Officago o	5200 W Kinzie St Chicago 44 Ill 26 Solartron Electronic Group Ltd
743 Circle Ave Forest Park III 9	Narda Corp 160 Herricks Rd 1-3-8-9-12-13 Mineola NY 15-26-35-36-38-39 National Radiac Inc.	Queens Rd
Industrial Test Equipment Co 55 E 11 St New York 3 NY 11	Mineola NY 15-26-35-36-38-39	Thames Ditton Surrey England 22
International Research Associates	National Radiac Inc 475 Washington St Newark 2 NJ 11	Specialty Automatic Machine Corp 88 Gerrish Ave Chelsea 50 Mass 2-4-38
2221 Warwick Ave Santa Monica Ca'if 28	Nebel Laboratory R E	Spectralab Instruments
I-T-E Circuit Breaker Co Special Products Div 601 E Erie Ave 1-2-3-4-15-32-36 Philadelphia 34 Pa 38-39-40-41	1634 E 12 St Brooklyn 29 NY	404 N Halstead Ave Pasadena Calif 5
	Nemeth Inc 2223 S Carmelina Ave	Sperry Gyroscope Co 1-2-3-4-5-7-8-9-12-13 Div Sperry Rand Corp 15-20-21-22-23-24-25 Great Neck NY 26-33-34-35-36-39-40-41
Jackson Electronics Inc	Los Angeles 64 Calif	Great Neck NY 26-33-34-35-36-39-40-41
23 Woodcrest Rd West Chester Pa 13-17-34 Jarrell-Ash Co	Nevada Air Products Co P O Box 2472 Reno Nev 41	Spencer-Kennedy Labs 1320 Soldiers Field Rd Boston 35 Mass 8
26 Farwell St Newtonville 60 Mass 38	Nichols Products Co	Spinform Inc
Javex P O Box 646 Redlands Calif 17	325 W Main St	65 Mechanic St Attleboro Mass 1-15-23-24
Johnson Electronics Inc	Nordon-Ketay Corn	Spruce Pine Mica Co
521 Elwell St Orlando Fla 11	Commerce Rd Stamford Conn 29	P O Box 456 Spruce Pine NC 42 Stainless Inc
Jones Electronics Co M C 185 N Main St Bristol Conn 8	North American Instruments Inc 2420 N Lake St Altadena Calif 10	3 St North Wales Pa 1
J-V-M Eng'g Co 2-3-4-5-7-8-12-13	Northern Engle Lake	Standard Coil Products Co
4633 S Lawndale Ave 14-17-18-19-21-23-25 Lyons Ill 26-29-33-36-38-39-40	372 Wilmot Ave Burlington Wis	2085 N Hawthorne Ave Melrose Park Ill 11 Standard Crystal Co
Kaiser Aircraft & Electronic Corp	NRK Mfg & Eng'g Co 4601 W Addison St	1714 Locust St Kansas City Mo 9
Toledo Electronics Div	Chicago 41 III 3-5-8-12-15-20-38-40	Standard Metals Corp
P O Box 437 Toledo Ohio	Omega Labs Inc	262 Broad St N Attleboro Mass 38 Stavid Eng'g Inc
Kearfott Co Western Div 14844 Oxnard St Van Nuys Calif 41	07 00 04 90 41	U S Route 22 Plainfield NJ
Kemtron Electron Products Inc	D. L Tee M. V	Stewart Warner Electronics Div
14 Prince Pl Newburyport Mass 10	4002 Fruit Valley Rd Vancouver Wash 21	1300 N Kostner Ave Chicago 51 III 4 Stoddart Aircraft Radio Co
Kennedy & Co D S 155 King St Cohasset Mass 1-24	Pearson Electronics 1200 Bryant St Palo Alto Calif 22	6644 Santa Monica Blvd
Kent Co F C	Dhiles Corn Covt & Industrial Div	Hollywood 38 Calif 3
64 Howard St Irvington 11 NJ 37-38 Keystone Electronics Co	4700 Wissahickon Ave Philadelphia 44 Pa 27	Swan Electronics Co
65 7 Ave Newark 4 NJ 9	Pix Mfg Co	Swedlow Plastics Co
Kinney Co Joseph Locust St Carnegie Pa 38	75 Hudson St Newark 3 NJ Polarad Electronics Corp	6986 Bandini Blvd Los Angeles 22 Calif 1
Kost Products Co	43-20 34 St 1-3-5-13-15	Swiss Jewel Co Lafayette Bldg Philadelphia 6 Pa 42
2335 N Cicero Ave Chicago 39 Ill 9	Long Island City 1 NY 24-36-41 Polytechnic Research & Development Co	Sylvania Electric Products Inc
Lambda-Pacific Eng'g Inc 14725 Arminta St	909 Tillary St 3-4-0-0-0-20	1740 Broadway New York 19 NY 2-3-10-12
Van Nuys Calif 1-3-4-12-13-27-28-41	Brooklyn 1 NY 26-29-34-36-41	Tarzian Inc Sarkes
Land-Air Inc Instrument & Electronic Div	Polytronic Research Inc	E Hillside Dr Bloomington Ind 8-27-28
2133 Adams Ave San Leandro Calif 2-6-7 Lansdale Tube Co Div Philco Corp	7660 Woodbury Dr Silver Spring Md 2-3-4-5-7	Technical Appliance Corp 1 Taco St Sherburne NY 1-24
Church Rd Lansdale Pa 10	Portchester Instrument	Technicraft Labs Inc 1-3-4-8-9-12-14-15
Lavoie Labs lnc Matawan-Freehold Rd Morganville NJ 5-41	114 Wilkins Port Chester NY 27-99 Premier Instrument Corp 1-2-3-4-5-7-8-9	Thomaston-Waterbury Rd 18-19-26-30-32-33
Leach & Garner Co Industrial Div	FO W Headen St 11-19-19-15-16-18	Thomaston Conn 35-36-37-38-39-40 Telechrome Mfg Corp
Leach & Garner Bldg Attleboro Mass 38	New York 12 NY 19-23-25-29-33-40-42	28 Ranick Dr Amityville LI NY 11-41
Levinthal Electronic Products Inc 3180 Hanover St Palo Alto Calif 20-22	Premier Research Labs Inc 79 7 Ave New York 11 NY	Telectro Industries Corp
Liberty Mirror Div	Press Wireless Labs Inc	35-18 37 St Long Island City 1 NY 2-11 Telerad Mfg Corp 1-2-4-5-8-9-10-12-14-15
Libbey Owens Ford Glass Co	25 Prospect Pl W Newton 65 Mass 2-26-41	1440 Broadway 16-18-19-25-26-29-30-34
Lieco Inc 1-3-4-8-9-12	Prodelin Inc 307 Bergen Ave Kearny NJ 1	New York 18 NY 35-36-37-38-40-41-42
3610 Oceanside Rd 13-14-15-30	Production Research Corp	Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas 1-2-12-38
Oceanside LI NY 31-32-36-38-40-41 Litton Industries of Calif	Thornwood NY 2-11-21-22-26-28-36	Thompson Products Inc Electronics Div
336 N Foothill Rd 9-16-17-18-19	Pye Telecommunications Ltd 1-2-7-8-9-12-13 Newmarket Rd 15-17-22-23-24-26-27-28	2196 Clarkwood Rd
Beverly Hills Calif 20-23-38	Cambridge England 29-31-33-34-35-36-40	Cleveland 3 Ohio 2-3-33-40
Litton Industries Components Div 5893 Rodeo Rd Los Angeles 16 Calif 8-17-19	Racon Electric Co	Torngren Co C W 236 Pearl St Somerville 45 Mass 1
Lubre & Co C H	1261 Broadway New York 1 NY 24 Radar Design Corp	Tower Construction Co
297 Hudson St Hackensack NJ 8-33	210 5 Ave New York 16 NY 3-8-15-26-36	2700 Hawkeye Dr Sioux City 2 Iowa 1-28
McMillan Industrial Corp Brownville Ave Ipswich Mass 3	Radiation Eng'g Labs	Tracerlab Inc 1 1601 Trapelo Rd Waltham 54 Mass 11
Mack Electronics Div Inc	Main St Maynard Mass 1 Radiation Inc	Trad Electronics Corp
C b Mask Twoks Inc	TARGUARDIA THE	1001 1 Ave Asbury Park NJ 3-9
Sub Mack Trucks Inc 1120 S 2 St Plainfield NJ 1-3	P O Box 37 Melbourne Fla 8	1001 1 1110 125011,

Transco Products Inc	Aliman Daylorda Ca	
12210 Nebraska Ave	Airpax Products Co Middle River Baltimore 20 Md	Budd Stanley Co
Los Angeles 25 Calif 1-33	Air Transport Mfg Co	43-01 22 St Long Island City 1 NY Burroughs Corp
Transitron Inc	1114 N Sycamore Ave	6071 2 Ave
186 Granite St Manchester NH 5-41 Transonic Inc	Los Angeles 38 Calif 2-3-4	Detroit 32 Mich 5-6-8-10-11-12-16-18
808 16 St Bakersfield Calif 11	All American Eng'g Co DuPont Airport Box USS 2668	Calif Magnetic Control Corp 11922 Valerio St N Hollywood Calif
United Mineral & Chemical Corp	Wilmington 5 Del 13	Canadian Aviation Electronics Ltd
16 Hudson St New York 13 NY 42 Uniwaye Inc 1-2-3-4-5-8-9-12-13	Allis Co Louis	6214 Cote de Liesse Rd
Uniwave Inc 1-2-3-4-5-8-9-12-13 2 Marine St 15-16-17-18-19-26-27	427 E Stewart St Milwaukee 1 Wis 5 Alpar Mfg Corp	St Laurent Quebec Canada 17-18 Canoga Corp
Farmingdale NY 28-32-34-38-39-41	2910 Spring St Redwood City Calif 2	5955 Sepulveda Blvd Van Nuys Calif 12-19
U S Stoneware Co Alite Div	Alto Scientific Co	Central Electronic Mfrs Inc Sub
Orville Ohio 42 United Transformer Corp	855 Commercial St Palo Alto Calif 10	Nuclear Corp of America 8-10-19 2 Richwood Pl Denville NJ 15-16-17-18
150 Varick St New York 13 NY 11-13	Amerac Inc 116 Topsfield Rd Wenham Mass 6	Central Electronics Inc 15-16-17-18
U S Rubber Co	American Machine & Foundry Co	1247 W Belmont Ave Chicago 13 III 15-17
1230 6 Ave New York 20 NY 3-34	Electronics Div 1085 Commonwealth Ave	Century Electronics Co
Utility Brass & Copper Corp 255 Conover St Brooklyn 31 NY 38	Boston 15 Mass	34 Oleander St Cocoa Fla 12 CG Electronics Corp
Vectron Inc	American Machine & Foundry Co Defense Products Group	305 Dallas St NE Albuquerque NM 2-12-19
1611 Trapelo Rd	1101 N Royal St	Chatham Electronics Div Gera Corp
Waltham 54 Mass 2-3-5-7-13-29-32-36-41 WacLine Inc	Alexandria Va 2-6-9-10-12-13-14-15	W Mt Pleasant Ave Livingston NJ 10 Chicago Aerial Industries Inc
35 S St Clair St Dayton 2 Ohio 2-3-26-32-41	American Research & Mfg Corp 920 Halpine Ave Rockville Md 10	1980 N Hawthorne Ave Melrose Park Ill
Waldorf Instrument Co Div F C	American Television & Radio Co	Christie Electric Corp 3410 W 67 St Los Angeles 43 Calif
Huyck & Sons Park Ave Huntington Station NY 5	300 E 4 St St Paul 1 Minn 10	Chu Associates Chu Associates 10
Walworth Co	Ampex Corp 934 Charter St Redwood City Calif 12	634 Waverly St Framingham Mass
60 E 42 St 2-3-4-8-12-14-15-18-19	Analogue Controls Inc	Cinema-Television Ltd Worsley Bridge Rd
New York 17 NY 26-29-37-38	39 Rosellc St Mineola NY 8	Lower Sydenham London SE 26 England
Warren Mfg Co Newtown Rd Littleton Mass 5-33-36	Andrew Antenna Corp	Clark Controller Co
Warren Plastics Corp	606 Beeck St Whitby Ontario Can 2 Andrew California Corp	1146 E 152 St Cleveland 10 Ohio 5 Clark Electronic Labs
Warren Pa 9	941 E Marylind Avc Claremont Calif 2	Box 165 Palm Springs Calif 10
Waveguide Inc 14837 Oxnard St	Andrew Corp	Clegg Labs Div Clegg Inc
Van Nuys Calif 3-4-5-12-15-18-19-38-40	363 E 75 St Chicago 19 III 2 Antenna Specialists Co	Ridgedale Ave Morristown NJ 10-15-16-17-18 Collins Radio Co
Waveline Inc	12435 Euclid Ave Cleveland 6 Ohio 2	855 35 St NE Cedar Rapids Iowa 8-15-17-18
Passaic Ave 1-2-3-5-8-9-12-13-14-23 Caldwell NJ 26-30-31-32-36-38-39-41	Anton Electronic Labs	Computing Devices of Canada Ltd
Caldwell NJ 26-30-31-32-36-38-39-41 Wave Particle Corp	1226 Flushing Ave Brooklyn 6 NY 10	P O Box 508 Ottawa Ontario Cam Condenser Products Div
1' O Box 252 Menlo Park Calif 20-41	Applegate & Co C J 1840 24 St Boulder Colo 10	New Haven Clock & Watch Co
Weinschel Eng'g	Applied Science Corp of Princeton	140 Hamilton St New Haven 4 Conn 10
10503 Metropolitan Ave Kensington Md 3-22-23	P O Box No. 44 Princeton NJ 12	Conn Telephone & Electric Corp 70 Brittania St Meriden Conn
Western Int'l Co	A R F Products Inc	Conoflow Corp
45 Vesey St New York 7 NY 38	Arma Div American Bosch Arma Corp	2100 Arch St Philadelphia 3 Pa 1
Westinghouse Electric Corp P O Box 868 Pittsburgh 30 Pa 20-22	Garden City NY 8	Consolidated Avionics Corp 66 Brooklyn Ave Westbury NY 6-10
Wheeler Labs Inc	A R & T Electronics Box 370 N Little Rock Ark 12	Consolidated Electrodynamics Corp
122 Cutter Mill Rd 1-2-3-4-7-8-12-13	Artisan Electronics Corp	300 N Sierra Madre Villa Pasadena Calif 14
Great Neck NY 16-19-34-36-38	171 Ridgedale Ave Morristown NJ 1	Continental Electronics Mfg Co 4212 S Buckner Blvd Dallas 27 Texas 10
White Electron Devices Inc Roger 92 4 Ave Haskell NJ 3-12-21-29-33-40-41	Arvey Corp Fibre Forming Div 202 Franklin St Olean NY	Cooper Co D C
Zenith Plastics Co	Askania Regulator Co	1467 S Michigan Ave Chicago 5 III 9
1600 W 135 St Gardena Calif	240 E Ontario St Chicago 11 Ill 8	Corbin Corp 5419 56 Pl Riverdale Md 2-5-8
FF - 1411 III 4514 MA	Associated Testing Labs 409 Clinton Rd Caldwell NJ 13-14	Corrugated Paper Products
55-MILITARY EQUIPMENT	Automatic Control Co	2233 Utica Ave Brooklyn 34 NY 9
Actuators 1	995 University Ave St Paul 4 Minn 12	Craig Systems Inc 90 Holten St Danvers Mass 2-3-4-5-8
Antennas, all wave 2	Avco Manufacturing Corp Crosley Div 1329 Arlington St 2-3-5-6-8-10	Crystalx-Westlake Corp
Cases, transit 3	Cincinnati 25 Ohio 12-15-16-17-18-19 Avion Div ACF Industries Inc	Lenni Rd Lenni Mills Pa 9
Containers, shipping 4		Darco Industries Inc Gyro Dynamics Div 2151 E Rosecrans Ave El Segundo Calif 1
Control center, portable 5	11 Park Pl Paramus N.J 6-8-10-12-19 Avionics Ltd	Daubert Chemical Co
Frequency measuring equipment 6	P O Box 200	333 N Michigan Ave Chicago 1 Ill 9 Daven Co
Fungicide equipment	Niagara-on-the-Lake Ontario Canada 13	Route 10 Livingston NJ 6
Navigation equipment	Barker & Williamson Inc Canal & Beaver Sts Bristol Pa 11-12	Davenport Mfg Co
rackaging materials 9	Bell Aircraft Corp	1713 N Ashland Ave Chicago 22 III 10
Power supplies	P O Box 1 1-5-6-8-10	Dayton Aviation Radio & Equipment Corp R R 3 Troy Ohio 2-8-15-17-18
Scramblers, speech	Buffalo 5 NY 11-12-13-15-16-17-18-19	Defiance Eng'g & Microwave Corp
Telemetering	Bell & Gossett Co	Beverly Airport Beverly Mass 2
lest units, acceleration 13	8200 Austin Ave Morton Grove Ill 12 Belock Instrument Corp	Diamond Antenna & Microwave Corp 7 North Ave Wakefield Mass 2-6
Test units, vibration	111-01 14 Ave College Point 56 NY 1-8-10-12	Dressen-Barnes Corp
Transceivers, aviation 15	Bemis Bros Bag Co 408 Pine St St Louis 2 Mo 4-9	250 N Vinedo Ave Pasadena Calif Du Mont Labs Inc Allen B
Transceivers, lifeboat 16	Bendix Aviation Corp Pacific Div	760 Bloomfield Ave Clifton NJ 6-8-10
Transceivers, portable 17	11600 Sherman Way	Durable Rubber Products Co
Transceivers, VHF	N Hollywood Calif  Bendix Aviation Corp Bendix Radio Div	609 W Lake St Chicago 6 Ill Dwyer Eng'g Co
Acme Electric Corp	East Joppa Rd Towson 4 Md 8-10-12-15-17-18	Pine St Ext Nashua NH 12
Water St Cuba NY 10	Bendix Aviation Corp	Eastern Precision Resistor Corp
Adler Electronics Inc	1104 Fisher Bldg Detroit 2 Mich 1-8-12-15-17-18-19	675 Barbey St Brooklyn 7 NY 9-10
LeFevre Lane New Rochelle NY 3-6-10-12	Bendix Aviation Corp Red Bank Div	Eberline Instrument Div Reynolds Electrical 805 Early St Santa Fe N Mexico 10
amiral Corp	Eatentown N.I	Eclipse-Pioneer Div Bendix Aviation Corp
Advance Industries Inc	B & F Instruments Inc 4732 N Broad St Philadelphia 41 Pa 13-14	Teterboro NJ
640 Memorial Dr	Biddle Co James G	Edko Electronics Eng'g Co 202 Grand St Brooklyn 11 NY 10
Cambridge 39 Mass 5-11-12-18 Aero Electronics Co	1316 Arch St. Philadelphia 7 Pa  B. I. Float roping, Roya Warney, Corn	Eigor Inc
1512 N Wells St. Chicago 10 III 9	B J Electronics Borg-Warner Corp 3300 Newport Ave Santa Ana Calif 6-12-13	4235 W North Ave Chicago 39 Ill 10 Eleo Mfg Co
Aeroflex Labs	Blue M Electric Co	137 Herrick Rd New Hyde Park LI NY 1-2
34-06 Skillman Ave Long Island City 1 NY 13	138 & Chatham St Blue Island III 13 Bogue Electric Mfg Co	Electomic Mechanisms Inc
ero Instrument Co	Iowa Ave Paterson 3 NJ 10	P O Box 1156 Greenwich Conn Electrical Communications Inc
11423 Vanowen St N Hollywood Calif 6	Bolton Labs Inc	765 Clementina St
Aerophysics Development Corp Sub	W Main St Bolton Mass Brach Mfg Corp	San Francisco 3 Calif 5-12
Curtiss-Wright Corp P O Box 689 Santa Barbara Calif	200 Central Ave Newark 3 NJ 2	Electrical Specialty Co 158 11 St San Francisco 3 Calif 9
inslie Corp	Breeze Corps	Electric Regulator Corp
312 Quincy Ave Quincy 69 Mass 2-3	700 Liberty Ave Union NJ 1-2 Brooks & Perkins Inc	Pearl St Norwalk Conn 6-10
irborne Accessories Corp	1950 W Fort St Detroit 16 Mich 3-4	Electric Specialty Co 211 South St Stamford 1 Conn 19
1414 Chestnut Ave Hillside 5 NJ 1	Brubaker Electronics Inc	Electro Impulse Lab Inc
Boonton NJ 15	3652 Eastham Dr Culver City Calif 8-19 Bruno-New York Industries Corp	208 River St Red Bank NJ Electro-Mechanical Div General Riveters Inc
iResearch Mfg Co Div Garret Corp 9851 Sepulveda Blvd	460 W 34 St New York 1 NY 8	785 Hertel Ave Buffalo 7 NY 1
Los Angeles 45 Calif	Brush Electronics Co 3405 Perkins Ave Cleveland 14 Ohio 6	Electronic Research Associates
1	3405 Perkins Ave Cleveland 14 Ohio 6	67 E Centre St Nutley 10 NJ 10

Electronics Development Co 3743 Cahuenga Blvd N Hollywood Calif 12	Ballamore Electronics Co 8352 Brookhurst Ave	E Freehold Rd Freehold NJ
Electronic Specialty Co	Anaheim Calif 5-8-10-12-19	Lear Inc 3171 S Bundy Drive
5121 San Fernando Rd Los Angeles 39 Calif 6-10	Haller Raymond & Brown 124 N Atherton St State College Pa 2	Santa Monica Calif 1-2-8-9-10-13-15-18
Electrosolida Corp	Hallicrafters Co	Lee Electric & Mfg Co 2806 Clearwater St Los Angeles 39 Calif 10
3743 Cahuenga Blvd N Hollywood Calif 12 Elm Labs	Hall-Scott Inc Electronics Div	Lel Inc
10 Washington Ave	2950 N Ontario St Burbank Calif 3-10	Librascope Inc
El-Tronics Inc	Hammerlund Mfg Co 460 W 34 St New York 1 NY 12	808 Western Ave Glendale Calif 5-8-12
Penn Ave Mayfield Pa 6-15	Hancock Electronics Corp	Litton Industries of Calif 336 N Foothill Rd 5-8-10-11-12-15
Elzee Metal Products Co 775 39 St Brooklyn 32 NY	Hanson-Gorrill-Brian	Beverly Hills Calif 16-17-18-19-21
Emerson Electric Mfg Co 8100 Florissant Ave St Louis 21 Mo 2	85 Hazel St Glen Cove NY 12	Litton Industries of Md Inc 4910 Calvert Rd College Park Md 8-14
Endevco Corp	Harrison Labs 45 Industrial Rd Berkeley Heights NJ 10	Loral Electronics Corp. 749 E 140 St New York 54 NY 8
161 E California St Pasadena Calif 13-14 Engineered Magnetics Div	Harvey-Wells Electronics Inc	Lorentzen Inc H K
Gulton Industries Inc	Hastings-Raydist Inc	501 W Broadway New York 12 NY Lyndon Aircraft Inc
13030 Cerise Ave Hawthorne Calif 10 Engineering Associates	Newcomb Ave Hampton Va	140 Clifford St Newark 5 NJ
434 Patterson Rd Dayton 9 Ohio 6	Haydon Switch Inc 536 S Leonard St Waterbury Conn	Lytle Eng'g & Mfg. Co 1404 San Mateo Blyd SE
Espey Mfg Co Congress & Ballston Ave	Hewlett-Packard Co	Albuquerque New Mexico
Saratoga Springs NY 9-10-13-17-18 Fairchild Guided Missiles Div	Hewson Co	Mack Electronics Div Inc Sub Mack Trucks Inc
Fairchild Engine & Airplane Corp	443 Broad St Newark 2 NJ	1120 S 2 St Plainfield NJ Magnetic Amplifiers Inc
Straight Path Wyandanch LI NY 3-4 Falstrom Co	Hoffman Electronics Corp 3761 S Hill St	632 Tinton Ave New York 55 NY
Falstrom Court Passaic NJ 3-4	Los Angeles 7 Calif 8-15-16-17	Magnetic Research Corp 3160 W El Segundo Blvd
Farrand Controls Inc 4401 Bronx Blvd New York 70 NY	Hogan Labs Inc 155 Perry St New York 14 NY 12	Hawthorne Calif 6-10-12
Fecker Inc J W	Homelite Div Textron Inc	Malkin-Illion Co 400 Coit St Irvington 11 NJ 3
Federal Mfg & Eng's Corp	Hoover Electronics Co	Manson Laboratories Inc
1055 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T	3640 Woodland Ave Baltimore 7 Md 10-12	Maryland Electronic Mfg Corp
100 Kingsland Rd	Hughes Aircraft Co Florence & Teale Sts Culver City Calif 8	5009 Calvert Rd College Park Md 2-8-12 Maxson Instruments Div W L Maxson Corp
Clifton NJ 2-5-6-8-10-11-12-15-17-18-19 Fidelity Chemical Products Corp	Hupp Electronics Co Div Hupp Corp	47-37 Austell Pl Long Island City 1 NY 13
470 Frelinghuysen Ave Newark 12 NJ	Hunn Instrumation Co	Melco Products Inc. 301 5 Ave S Minneapolis 15 Minn 10
Filtron Co 131-15 Fowler Ave Flushing 55 NY 10	2119 Sepulveda Blvd Los Angeles 25 Calif 6	Mercury Electronic Co
Finney Co	Hycoin Mfg Co 707 S Raymond Ave Pasadena Calif 6	Metal Fabricators Corp
Firestone Guided Missile Div	Ideal-Aerosmith Inc	73 Pond St Waltham 54 Mass 2-3
Los Angeles 54 Calif	Industrial Radio Corp	Metal Specialty Products Corp 27-01 Brooklyn Queens Expressway
Forbes & Wagner Inc 343 Central Ave Silver Creek NY	428 N Parkside Ave Chicago 44 III	W Woodside 77 NY Mid-West Conveyer Co Metal Products Div
Ford Instrument Co Div Sperry Rand Corp 31-10 Thomson Ave	Industrial Research Labs Div Aeronca Mfg Corp	7 & Sunshine Rd Kansas City 15 Kans 3
Long Island City 1 NY 8-12	Hilltop & Frederick Rds	Mil Case Corp 35-18 37 St Long Island City NY 3-4-9
Foto-Video Labs Inc 25 Amity St Little Falls NJ 6-10	Baltimore 28 Md Industrial Test Equipment Co	Milli-Switch Corp
Franklin Electronics Inc	55 E 11 St New York 3 NY	1742 Berkely St Santa Monica Calif Minn-Honeywell Regulator Co
Frequency Standards Inc	Intelex Systems Inc 22 Thames St New York 6 NY 10	Ordnance Div
P O Box 504 Asbury Park NJ	Instrument Cases Inc	Minn-Honeywell Regulator Co Aero Div
Fretco Inc 406 N Craig St Pittsburgh 13 Pa 2	Instrument Development Labs Inc	1433 Stinson Blvd Minneapolis Minn
F-R Machine Works Inc	67 Mechanic St Attleboro Mass 8	Missileonics Inc P O Box 716 Melbourne Fla 6-8-10
Electronic & X-Ray Div 26-12 Borough Pl Woodside 77 NY 6	Insuline Corp of America 186 Granite St Manchester NH 2-3	Model Eng'g & Mfg lnc 50 Frederick St
Gabriel Electronics Div Gabriel Co	International Business Machines Corp	Huntington Ind 10-12-15-16-17-18-19
135 Crescent Rd Needham Heights 94 Mass 2-12	International Regiont Corn	Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY
Gaertner Scientific Corp 1250 Wrightwood Ave Chicago 14 III 14	4 Manhassett Ave Port Washington NY 1-14	Modern Industries Inc
C. w. att Cown AiResearch Mig CO Div	I-T-E Circuit Breaker Co Special Products Div 601 E Erie Ave	2601 Colorado Ave Santa Monica Calif 10 Moog Valve Co
9851 Sepulveda Blvd Los Angeles 45 Calif 1 Gates Radio Co	Philadelphia 34 Pa	Proner Airport E Aurora NY
123 Hampshire St Quincy III	Interstate Electronics Corp 875 S East St Anaheim Calif	Motoresearch Co 1600 Junction Ave Racine Wis
Geartronics Corp 2514 Broadway Long Island City NY 1	Jacobs Instrument Co 4718 Bethesda Ave Bethesda 14 Md 8	Motorola Communications & Electronics Inc 4501 W Augusta Blvd Chicago 51 Ill 17-18
General Bronze Corp	Jan Hardware Mfg Co	M Ten Rosch Irc
Congral Communication Co	75 N 11 St Brooklyn 11 NY Johnson Aircraft Eng'g Co M J	80 Wheeler Ave Pleasantville NY Muckle Mfg Co
677 Beacon St 5-6-8-10-12-13	Box 10 Morristown Airport	U S Hwy 14 Owatonna Minn 3-4-9
Geneval Electric Co Apparatus Sales Div	Morristown NJ Joy Mfg Co	Narda Corp 160 Herricks Rd Mincola NY
1 River Rd Schenectady 5 NY 12	333 Oliver Bldg Pittsburgh 22 Pa 10	National Aircraft Corp 3411 Tulare Ave Burbank Calif 10
General Electric Co Communication Products Dept	Kaiser Aircraft & Electronics Corp Toledo Electronics Div P O Box	Nemeth Inc
Syracuse NY	437 Toledo Ohio 6-10-19	2223 S Carmelina Ave Los Angeles 64 Calif
General Electric Co Light Military Electronic Equip Dept	Kato Eng'g Co 1415 1 Ave Mankato Minn 10	Nems-Clarke Inc
French Rd Utica NY 8-15-17-18 General Precision Lab Inc	Katolight Corp	Nevada Air Products Co
63 Bedford Rd Pleasantville NY	Box 891 Mankato Minn 10 Katolight Corp	P O Box 2472 Reno Nev 8-12-15-17-19 N J E Corp
General RF Fittings Inc 702 Beacon St Boston 15 Mass 6	1415 1 Ave Mankato Minn 10	345 Carnegie Ave Kenilworth NJ
Gertsch Products Inc	Kay Electric Co 14 Maple Ave Pine Brook NJ 6-14	Norden-Ketay Corp Commerce Rd Stamford Conn 8-11-12
11846 Mississippi Ave Los Angeles 25 Calif	Kepco Labs 131-38 Sanford Ave Flushing NY 10	Norma Hoffmann Bearings Corp Walker Div
Cimpoini & Co G M	Koch & Sons H	Norman Laboratories Ernst
918 E Green St Pasadena Calif 8-12-13 Globe Industries Inc	Box 127 Corte Madera Calif	Williams Bay Wis
1784 Stanley Ave Dayton 4 Ohio	Kollman Case Corp P O Box 180 Ft Wayne 1 Ind 3	Northeastern Eng'g Inc 25 S Bedford St Manchester NH 6
G & M Equipment Co 7315 Varna Ave N Hollywood Calif 6	Kuss Industries Inc	North Hills Electric Co 402 Sagamore Ave Mineola LI NY 10
Gordon Enterprises	Tacony & Lewis Sts Philadelphia 24 Pa	Nuclear-Electronics Corp
5362 N Cahuenga Blvd N Hollywood Calif 3-4	Lavoie Labs Inc	2632 W Cumberland St Philadelphia 32 Pa 6-10
Correll & Garrell	Matawan-Freehold Rd Morganville NJ 3-6-7-8	Olympic Plastics Co
336 Old Hook Rd Westwood NJ	Lambda Electronics Corp	3471 S LaCienega Blvd Los Angeles 16 Calif
Goslin Electric & Mfg Co 2921 W Olive Ave Burbank Calif 17	Land-Air Inc Instrument & Electronic Div	Olympia Radio & TV
Gould Corp Jerome F	2133 Adams Ave San Leandro Calif 8-10-12 Lane Electronics Mfg Corp	Onan & Sons D W
Greer Hydraulics Inc	7254 Atoll Ave N Hollywood Calif 15	2515 University Ave SE
N Y Int'l Airport Jamaica 30 NY 1	Langevin Mfg Corp 47-37 Austell Pl	Ordnance Eng'g Corp
Gulton Industries Inc 212 Durham Ave Metuchen NJ 10-12-13-14	Long Island City 1 NY 10	P O Box 460 Frederick Md 12

196 Albion Ave Paterson 2 NJ 10	Skiatron Electronics & TV Corp 180 Varick St New York 14 NY 5-6-8-11-12	Waveline Inc Passaic Ave Caldwell NJ
Otis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY 5-8-10-12-18	Skydyne Inc River Lid Port Jervis NY 3-4	Watson Mfg Co 3700 Taylor St Jamestown NY
Packard Bell Electronics Corp 12333 W Olympic Blvd	Snyder Mfg Co	Waugh Eng'g Co
Los Angeles 64 Calif 8-10-17-19 Palmer Inc M V	22 & Ontario Sts Philadelphia 40 Pa 2 Solartron Electronic Group Ltd	7842 Burnet Ave Van Nuys Calif 12 Webster Mfg Co
4002 Fruit Valley Rd	Queens Rd Thames Ditton Surrey England 1 Sorensen & Co	242 Shoreline Hwy Mill Valley Calif West Coast Electronics Co
Vancouver Wash Parsons Co Ralph M Electronics Div	Richards Ave Norwalk Conn 10	9261 W 3 St Beverly Hills Calif 8-10-12 West Coast Research Corp
151 S De Lacey Ave Pasadena Calif 8-12-19	Specialty Eng'g & Electronics Co 79 Clifton Pl Brooklyn 38 NY 3	2371 1/2 Westwood Blvd
Peer Inc	Sperry Gyroscope Co Div Sperry Rand Corp Great Neck NY 1-6-8	Los Angeles 64 Calif 1-5-8-10-12-13 Westinghouse Electric Corp
1200 Milton St Benton Harbor Mich 5 Permoflux Products Co	Sphere Co 25 Amity St Little Falls NJ 3	P O Box 868 Pittsburgh 30 Pa 6-8-13 Westronics Inc
4101 San Fernando Rd Glendale 4 Calif 10 Peschel Electronics Inc	Spivey Inc James S	3605 McCart Ft Worth Texas
13 Garden St New Rochelle NY 10 Peter Partitions Corp	4908 Hampden Lane Washington 14 DC 10-12 Stainless Inc	Wiancko Eng'g Co 255 Halstead St Pasadena Calif 13
124 Boerum Pl Brooklyn 1 NY 9	3 St North Wales Pa 2 Stavid Eng'g Inc 2	Wickes Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ
Peters-Dalton Inc Div Detroit Harvester 17900 Ryan Rd Detroit 12 Mich 4	U S Route 22 Plainfield NJ 5-8-12-19	Wilcox Electric Co 1400 Chestnut St Kansas City 27 Mo
Petroff Corp Peter A 127 Water St New York 5 NY 2-12-15-17	Stevenson Bro 110 Race St Philadelphia 6 Pa 9	Wincharger Corp
Philco Corp Govt & Industrial Div 4700 Wissahickon Ave	Stewart Warner Electronics Div 1300 N Kostner Ave 1-2-3-4-5-6-7-8-9-10	E 7 & Division St Sioux City 2 Iowa 10 Winder Aircraft Corp of Florida
Philadelphia 44 Pa 6	Chicago 51 Ill 11-12-13-16-17-18-19 Stone City Machine & Tool Co	P O Box 2397 Drane Field Lakeland Fla 3-4-S-15
Plastic Capacitors Inc 2620 N_Clybourn Ave Chicago 14 Ill 10	1206 7 St Bedford Ind 3	Wind Turbine Co E Market St & PRR W Chester Pa
Polarad Electronics Corp 43-20 34 St Long Island City 1 NY 2-6-8-12-19	Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd	Winkler Labs
Potter Aeronautical Corp	Rochester 3 NY 8-11-15 Sylvania Electric Products Inc	5225 N 20 St Phoenix Ariz 14 Zero Mfg Co
P O Box 532 Union NJ 6 Power Designs Inc	1740 Broadway	1121 Chestnut Burbank Calif 3-4-9 Z & W Mfg Corp
89-25 130 St Richmond Hill 18 NY 10 Power Supplies Inc	New York 19 NY 8-10-15-17-18 Systron Corp	30240 Lakeland Blvd Wickliffe Ohio
1005 Olive St Highland Ill 10 Pres Industrial Equipment Ltd	2055 Concord Blvd Concord Calif 6-12 Taffet Radio & TV Co	56-MILITARY SYSTEMS
Box 302 Putt Corners Rd N	27-05 Brooklyn-Queens Expressway W	ENGINEERING
New Paltz NY Prodelin Inc	Woodside 77 NY 2-3 Taller & Cooper	Alarm systems
307 Bergen Ave Kearny NJ 2 Production Research Corp	75 Front St Brooklyn 1 NY 12 Tatnall Measuring Systems Co	Communications 2
Thornwood NY 2-6-10-11-12-15-16-17-18-19 PSC Applied Research Ltd	Kimberton Rd Phoenixville Pa 14	Counter measures
1560 O'Connor Dr Toronto 16 Canada 8	Technical Appliance Corp 1 Taco St Sherburne NY 2	Data recording systems 4 Data reduction systems 5
Pye Telecommunications Ltd Newmarket Rd	Telechrome Mfg Corp 28 Ranick Dr Amityville LI NY 12	Fire control 6
Cambridge England 2-5-8-16-17-18 Q-Line Mfg Corp	Telectro Industries Corp	Telemetering 7
1562 61 St Brooklyn 19 NY 2	35-18 37 St Long Island City 1 NY 3-4-7-10-11-12	GUIDANCE CONTROL SYSTEMS
Radiation Eng'g Labs Main St Maynard Mass 2	Tele-Dynamics Inc 32 & Walnut Sts Philadelphia 4 Pa 12	Command control, navigation 8
Radiation Inc P O Box 37 Melbourne Fla  12	relemarine Communications Co	Inertial navigation 9 Infra-red, navigation 10
Radio City Products Co	Telephonics Corp	Radar beam navigation 11
Centre & Glendale Sts Easton Pa 6-8-10 Radionics Inc	Park Ave Huntington LI NY 15-16-17-18-19	Stellar navigation 12
P O Box 186 Cockeysville Md 10 Ransom Research	Telkor Inc N	Abrams Instrument Corp 606 E Shiawassee St Lansing 1 Mich 6-7
323 W 7 St San Pedro Calif 6-10 Reeves Instrument Corp	Telrex Labs	Acoustica Associates
215 E 91 St New York 28 NY 2	Ashury Park NJ Tenney Eng'g Inc	Shore Rd Glenwood Landing LI NY 1 Adler Electronics Inc
REF Mfg Corp 393 Jericho Turnpike Mineola NY 3	1090 Springfield Rd Union NJ 7-13-14 Texas Instruments Inc	1 LeFevre Lane New Rochelle NY 2-7 Advance Industries Inc
Reflectone Corp Boston Post Rd Stamford Conn 11	6000 Lemmon Ave Dallas 9 Texas 12	640 Memorial Dr Cambridge 39 Mass 1-3-5-6-7-8-10-11-12
Reid Enterprises	Texloid Products Co 81 Rumford Ave Waltham 54 Mass	Aero Electronics Co
2610 E 67 St Long Beach 5 Calif 9 Reliance Electric and Eng'g Co	Transco Products Inc 12210 Nebraska Ave Los Angeles 25 Calif 2	1512 N Wells St Chicago 10 Ill 8 Aeroflex Labs
24701 Euclid Ave Cleveland 17 Ohio 13 Resdel Eng'g Corp	Transdyne Corp 7337 Grand Ave Maspeth 78 NY 8-10-12	34-06 Skillman Ave Long Island City 1 NY 4 Aerojet-General Corp
330 S Fair Oaks Ave	Trans Electronics Inc	6352 N Irwindale Ave Azusa Calif Airborne Instruments Lab Modac Div
Research Development Mfg Inc	7349 Canoga Ave Canoga Park Calif Transformer Technicians Inc	864 Franklin Ave Thornwood NY 5
429 E Collom St Philadelphia 41 Pa 1 Rheem Mfg Co Electronics Div	2608 N Cicero Ave Chicago 39 Ill 10 Transitron Inc	AiResearch Mfg Co Div Garrett Corp 9851 Sepulveda Blvd Los Angeles 45 Calif 5
7777 Industry Ave Rivera Calif 12 Rich Electronics Inc	186 Granite St Manchester NH 6 Transonic Inc	Aitron Inc 1101 W Elizabeth Ave Linden NJ 3-6-8-11
212 NW 8 Ave Miami 36 Fla 12	808 16 St Bakersfield Calif 10	Alto Scientific Co 855 Commercial St Palo Alto Calif 1-2-3-4-7
Rixon Electronics Inc 2414 Reedie Dr Silver Spring Md 6-10	United Aircraft Products Inc 1116 Bolander Ave Dayton 8 Ohio 3	Alwac Corp
Rotating Components Inc 267 Green St Brooklyn 22 NY 1	1200 S Marengo Ave Pasadena Calif. 12 10	13040 S Cerise Hawthorne Calif 5 Amerac Inc
RS Electronics Corp	United Mineral & Chemical Corp	116 Topsfield Rd Wenham Mass 2-11 American District Telegraph Co
435 Portage Ave Palo Alto Calif 10 Sangamo Electric Co	16 Hudson St New York 13 NY 9 Universal Atomics Corp	155 6 Ave New York 13 NY American Electronic Laboratories
Springfield Ill 10 Saratoga Industries	50 Bond St Westbury LI NY Uniwave Inc	121 N 7 St Philadelphia 6 Pa 3
Congress & Ballston Ave	2 Marine St Farmingdale NY U S Dynamics Corp	American Machine & Foundry Co Electronics Div 1085 Commonwealth Ave
Saratoga Springs NY 9-10-12-17-18 Scantlin Electronics Inc	1250 Columbus Ave Boston 20 Mass 10	Boston 15 Mass 2-3-5-6-8-11 American Machine & Foundry Co Defense
11624 W Pico Blvd	U S Plywood Corp 55 W 44 St New York 36 NY	Products Group 1101 N Royal St
Schafer Custom Eng'g	Vapor Heating Corp	Alexandria Va 1-2-3-4-5-6-7-8-9-10-11-12 American Microwave Corp
235 S 3 St Burbank Calif 12 Schjeldahl Co G T	80 E Jackson Blvd Chicago 4 Ill 1 Varo Mfg Co	11754 Vose St N Hollywood Calif 2 Ampex Corp
Northfield Minn 9	2201 Walnut St Garland Texas 6-10-18 Vectron Inc	934 Charter St Redwood City Calif 4-5-7 Amtron Corp
Seaboard Electric Products Corp 417 Canal St New York 13 NY 5-6-7-8	1611 Trapelo Rd Waltham 54 Mass 6-8 Virginia Electronics Co	17 Felton St Waltham 54 Mass 2
Sel-Rex Corp 155 Manchester Pl	River Rd & B&O RR	Analogue Controls Inc 39 Roselle St Mineola NY 3-4-5-6-8-9
Newark 4 NJ 10 Servo Corp of America	Washington 16 DC 10-17 Wagner Co H A	Anton Electronic Labs 1226 Flushing Ave Brooklyn 6 NY 3-6
2020 Jericho Turnpike	14707 Keswick St Van Nuys Calif 1-10 Waldorf Instrument Co Div F C Huyck	Applied Research Inc
New Hyde Park NY 8 Servomechanisms Inc	& Sons Park Ave Huntington Station NY 12 Walkirt Co	Applied Science Corp of Princeton
12500 Aviation Blvd Hawthorne Calif 8 Servonics Inc	141 W Hazel St Inglewood 3 Calif 6	P O Box No 44 Princeton NJ A R F Products Inc
822 N Henry St Alexandria Va	Wallson Associates Ltd 963 Frelinghuysen Ave Newark 12 NJ 10	7627 Lake St River Forest Ill 2-3-11 Arma Div American Bosch Arma Corp
Shepard Labs Inc 480 Morris Ave Summit NJ 2-10-12	Warren Corp J C 21 Hanse Ave Freeport NY 17	Garden City NY 6-9-10 Arnoux Corp
Sheppard Co R H 101 Philadelphia St Hanover Pa 10	Warren Mfg Co	11924 W Washington Blvd
	Newtown Rd Littleton Mass 12	Los Angeles 66 Calif 4-5

Design   Company   Compa	Askania Regulator Co	Dayton Aviation Radio & Equipment Corp R R 3 Troy Ohio 2-3-8	Haller Raymond & Brown 124 N Atherton St
### Annual Processor Computer States and Sta	240 E Ontario St Chicago 11 III 8-10-12 Assembly Products Inc	Designers for Industry	State College Pa 1-2-3-5-6-10
Brownigh De Governach Come	Wilson Mills Rd Chesterland 1 Ohio 1		Hallicrafters Co
Austin C. Spreid Devices, IV 5-46-73 Attornatio Christoph Sp. Spal 4 Mills of Sp. Spal	3801 Castor Ave Philadelphia 24 Pa 6	Brookside Dr Greenwich Conn 4-5	Chicago 24 Ill 1-2-3-4-5-6-7-8-9-10-11-12
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March   Principation Ace   Street   March	10 0 1110 11011 11011	Diatron Co	Hancock Electronics Corp
All of P. Imperial Rey  On Content Content Corp.  1.25 Animates 8.	995 University Ave St Paul 4 Minn 7		
Double Aircraft C. Total p. 16-46-52		431 Broome St New York 13 NY	85 Hazel St Glen Cove NY 4-5-7-10
Anna Saurientering Corporated 100 - 100-101 - 100 - 10	Downey Calif 4-5-6-9-12	Douglas Airoraft Co	
Fine St. East Nochan NII	Avco Manufacturing Corp Crosley Div	3000 Ocean Park Blvd Santa Monica Calil 2	Hastings-Raydist Inc
Partial Robot ACP Industries   Partial Robot College   Partial Robot   Parti	Cincinnati 25 Ohio 8-9-10-11	Pine St Ext Nashua NH 7	Newcomb Ave Hampton ve
Ballock Radio England   Part   Wooding Act   Win Name   Cappa   Cappa   Act   Cappa	Avion Div ACF Industries Inc 2-3-4-5-6	Eastman Kodak Co	443 Broad St Newark 2 NJ 1
Texterior Significant is a second of the control of	Babcock Radio Eng'g Inc	Eclipse-Pioneer Div Bendix Aviation Corp	Hoffman Electronics Corp
**Counting & Bayers 28 Bitton Pa 18 ** **Counting Strommonts Inc ** **Coun	7942 Woodley Ave Van Nuys Calif 8	Teterboro NJ	Hogen Labs Inc
Beckman Berkeley Div 200 Weight Ace Richmond 3 Calif Beckman Internetical Internation 1 (1) Beckman Internetical Internetical Internation 1 (1) Beckman Internetical Interneti		765 Clementina St	155 Perry St New York 14 NY 3-4
200 Wright Are Richmond 3 Callf 4-57 223 N Miller Ave Anaheim Callf 4-57 223 N Miller Ave Anaheim Callf 4-57 223 N Miller Ave Anaheim Callf 4-57 224 N Miller Ave Anaheim Callf 5-44-64 225 N Miller Ave Anaheim Callf 5-44-64 225 N Miller Ave Anaheim Callf 5-44-64 226 N Miller Ave Anaheim Callf 6-45-64 227 N Miller Ave Anaheim Callf 6-45-64 228 N Miller Ave Anaheim Callf 6-45-64 229 N Miller Ave Anaheim Callf 6-45-64 230 N Miller Ave Anaheim Callf 6-45-64 231 N Miller Ave Anaheim Callf 6-45-64 232 N Miller Ave Anaheim Callf 6-45-64 233 N Miller Ave Anaheim Callf 6-45-64 234 N Miller Ave Anaheim Callf 6-45-64 235 N Miller Ave Anaheim Callf 6-45-64 236 N Miller Ave Anaheim Callf 6-45-64 237 N Miller Ave Anaheim Callf 6-45-64 238 N Miller Ave Anaheim Callf 6-45-64 239 N Miller Ave Anaheim Callf 6-45-64 239 N Miller Ave Anaheim Callf 6-45-64 230 N Nepport N Miller Call 7-45-64 230 N Nepport N Miller Call 7-45-64 230 N Nepport N Miller Call 7-45-64 231 N Miller Ave Cleveland 15 United States of the Call 7-45-64 231 N Nepport N Miller Call 7-45-64 231 N Nepport N Miller Call 7-45-64 232 N Miller Ave Anaheim Callf 6-45-64 233 N Nepport N Miller Call 7-45-64 234 O Research Call 7-45-64 235 N Nepport N Miller Call 7-45-64 235 N Nepport N Miller Call 7-45-64 236 N Nepport N Miller Call 7-45-64 237 N N Nepport N Miller Call 7-45-64 238 N N N N N N N N N N N N N N N N N N N	Beckman/Berkeley Div	San Francisco 3 Calif	Hoover Electronics Co 3640 Woodland Ave Baltimore 7 Md 3-4-7-8
Beckman leastruments   Inc. Bate & Control	Reckman Instruments Inc 2200 Wright Ave Richmond 3 Calif 4-5-7	9136 Westwood Blvd	Houston Fearless Div Color Corp of America
189 3 Alverado Les Anagles 97 Calif 4-5-6 Bell Africat Lugo 5 NY 3-5-10-112 Belock instrument Corp College Point is NY Bollywood Colf Emelits Knolls hip 6-5-8 East Johns R. Towner 8 Me 2-4-5-5-1 Berlis Asiation Corp Parille live East Johns R. Towner 8 Me 2-4-5-5-1 Berlis Asiation Corp Parille live East Johns R. Towner 8 Me 2-4-5-5-1 Berlis Asiation Corp Parille live East Johns R. Towner 8 Me 2-4-5-5-1 Berlis Asiation Corp Parille live East Johns R. Towner 8 Me 2-4-5-5-1 Berlis Asiation Corp Parille live East Johns R. Towner 8 Me 2-4-5-5-1 Berlis Asiation Corp Parille live East Johns R. Towner 8 Me 2-4-5-5-1 Berlis Asiation Corp Parille live East Johns R. Towner 8 Me 2-4-5-5-1 Berlis Asiation Corp Parille live Berlin S. Lander R. S. Louis 1 Me 2-4-5-6-1 Berlis Asiation Corp Parille live Section Corp Internation Corp Parille Research Corp Section Corp Research Corp Research Corp Research Corp Research Corp Research Corp Research Corp Resea	Beckman Instruments Inc Data & Control	Los Angeles 25 Calif	
Bell Aircraft Corp   September		180 S Alvarado Los Angeles 57 Calif 4-5-7	Hughes Aircraft Co
Belevis A Jack of S N	Bell Aircraft Corp 2-3-4-5-6-7	Flortropics Corp of America	Florence & Teale Sts Culver City Call 2-6
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Lico Sherman Way  5.47-8 Bendix Avaitan Curp Bendix Hadio Dis East Jongs Rd Townen 4 May  1.100 Sherman Way  5.47-8 Bendix Avaitan Curp Bendix Hadio Dis East Jongs Rd Townen 4 May  1.100 Sherman Avaitan Curp Bendix Hadio Dis East Jongs Rd Townen 4 May  1.100 Sherman Avaitan Curp Bendix Hadio Dis East Jongs Rd Townen 4 May  1.100 Sherman Avaitan Curp Bendix Hadio Dis East Jongs Rd Townen 4 May  1.100 Sherman Avaitan Curp Bendix Hadio Dis East Jongs Rd Townen 4 May  1.100 Sherman Avaitan Curp Bendix Hadio Dis  1.	111-01 14 Ave	3743 N Cahuenga Blvd N Hollywood Calli	Hycon Eastern Inc
Angeles Political Corp Bendix Hastin Dr. East Appa Rd Townson 4 Md 2-5-7-5-11 Feather 14 Jopa Rd Townson 5 Md 2-5-11 Feather 14 Jopa Rd Townson 5 Md 2-5-11 Feather 14 Jopa Rd Townson 6 Md 2-5-11 Feather 14 Jopa Rd Townson 6 Md 2-5-11 Feather 14 Jopa Rd Townson 6 Feather 14 Jopa Rd Townson 7 Jopa Rd		Electronic Specialty Co	Hycon Mfg Co
N. Riplywood Calif East Jopan Rd Towson 4 2-3-r-3-bil Bentix R	11600 Sherman Way	Los Angeles 39 Calif	707 S Raymond Ave Pasadena Calif 2-10
East Jopas Rd Towson 4 Md 2-4-5-5-10 Bettonit 2 Mich Detroit 2 Mich Los Angeles 64 Celif Carraer Cup 3300 Newport Ave Santa Ann Cali 2-4-5-7-10 Bribabler Electronics Inc. 3300 Newport Ave Santa Ann Cali 2-4-5-7-10 Bribabler Electronics Cup 3300 Newport Ave Santa Ann Cali 2-4-5-7-10 Bribabler Electronics Inc. 3405 Perkins Ave Circeland 14 Ohio 3405 Perkins Ave Circle 14 Ohi			3973 Lankershim Blvd N Hollywood Calif 4
Bestitz Aviation Corp Detroit 2 Mich	East Joppa Rd Towson 4 Md 2-3-7-8-11	Electro Sound Corp	Industrial Research Labs Div Aeronca
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200 S Harding St Indianapolis Ind 3
Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill 1-2
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Mincom Div Minn Mining & Mfg Co 2049 S Barrington Ave Los Angeles 25 Cal 4
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Minneapolis-Honeywell Regulator Co Davies Labs Div 10721 Hanna St
Beltsville Md 4-5-7
Minn-Honeywell Regulator Co Aero Div
1433 Stinson Blvd Minneapolis Minn 6-9 Minneapolis-Honeywell Regulator Co
Industrial Div Wayne & Windrim Aves
Philadelphia 44 Pa Missileonics Inc
P O Box 716 Melbourne Fla  Mosler Research Products Inc  3 Keeley St Darkey Court
Motorola Communications & Electronics Inc
Motorola Communications & Electronics Inc 4501 W Augusta Blvd Chicago 51 Ill 2 M Ten Bosch Inc 80 Wheeler Ave Pleasantville NY 9-12
80 Wheeler Ave Pleasantville NY 9-12 National Scientific Labs Inc
2010 Massachusetts Ave N W Washington 6 DC 2-3-4
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1621 Snyder Ave Philadelphia 45 Pa 5
Nemeth Inc 2223 S Carmelina Ave
Los Angeles 64 Calif
Nevada Air Products Co
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Rheem Mfg Co Electronics Div 7777 Industry Ave Rivera Calif Rich Electronics Inc 212 NW 8 Ave Miami 36 Fla	2-7
Rich Electronics Inc	1-2-4-7
Rixon Electronics Inc 2414 Reedie Dr Silver Spring Md	
Saratoga Industries Congress & Ballston Ave	2
Saratoga Springs NY	1-2
417 Canal St New York 13 NY	1-6-8
417 Canal St New York 13 NY Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY	
Servomechanisms Inc	2-5-10
12500 Aviation Blvd Hawthorne Calif Servonics Inc	
822 N Henry St Alexandria Va 6-8-9- Shepard Labs Inc	10-11-12
480 Morris Ave Summit NJ Skiatron Electronics & TV Corp	4
180 Varick St New York 14 NY 1-2-3-4-5-6-7-8-9-1	10-11-12
Smith-Meeker Eng'g Co 157 Chambers St New York 7 NY	2-3-11
Soroban Eng'g Inc Box 338 Melbourne Fla	4-5
Box 338 Melbourne Fla Southern Instruments Computer Div Frimley Rd Camberley Surrey Engla: Southwestern Industrial Electronics Co. 3831 Port Oak Bed Mountain	nd 4-5
Southwestern Industrial Electronics Co 2831 Post Oak Rd Houston 19 Texas	4-5
2831 Post Oak Rd Houston 19 Texas Sperry Gyroscope Co Div Sperry Rand Great Neck N Y Spivey Inc. Long. S	Corp -9-11-12
4908 Hampdon Lune Weekington 14	D.C
U S Route 22 Plainfield NJ 3-4-5-6-7-	8-10-11
190 Henry St Stamford Conn	2
Stewart Warner Electronics Div 1300 N Kostner Ave	_
Chicago 51 Ill 2-3-4-5-6-7-8-9-1 Stratford Corp	
44 W 28 St New York 1 NY Stromberg-Carlson Div General Dynam	l nics
Strong Electric Corp	2-4
87 City Park Ave Toledo 1 Ohio Sylvania Electric Products Inc	10
1740 Broadway New York 19 NY 2-3-4-5	5-6-8-11
Systron Corp 2055 Concord Blvd Concord Calif Taller & Cooper	3-4-5-7
	4-5-7
Thomaston-Waterbury Rd Thomaston	Conn 3
Telechrome Mfg Corp 28 Ranick Dr Amityville LI NY Telecomputing Div Telecomputing Corp	7
12838 Saticov St N Hollywood Calif	5
Telectro Industries Corp 35-18 37 St Long Island City 1 NY Tele-Dynamics Inc	1-4-5
32 & Walnut Sts Philadelphia 4 Pa	7
Telemeter Magnetics Inc 2245 Pontius Ave Los Angeles 64 Cal Telephonics Corp	if 4-5
Telephonics Corp Park Ave Huntington LI NY Televiso Corp	2-3-4-8
1415 Golf Rd Des Plaines Ill Texas Instruments Inc	3
6000 Lemmon Ave Dallas 9 Texas 3-5-6-7- Textran Corp	9-10-11
Textran Corp Box 4252 Austin 51 Texas 3	-4-5-11
Thompson Products Inc Electronics Div	
Times Facsimile Corp 540 W 58 St New York 19 NY Topp Industries Inc	2
5255 W 102 St Los Angeles 45 Calif	2-3-6
TV Specialty Co 350 W 31 St New York 1 NY	. 4
Underwood Corp Electronic Computer 1 35-10 36 Ave Long Island City 6 NY United Electrodynamics	4-5
1200 S Marengo Ave Pasadena Calif U S Instrument Corp	5-7
P O Box 33E Charlottesville Va Vapor Heating Corp 80 E Jackson Blvd Chicago 4 Ill	2
80 E Jackson Blvd Chicago 4 Ill Varo Mfg Co	1
	2-6-7-9
1611 Trapelo Rd Waltham 54 Mass Virginia Electronics Co	3
River Rd & B&O RR Washington 16 D Vought Co	C 2-8
Box 1350 Beverly Hills Calif	4-5
14707 Keswick St Van Nuys Calif Waldorf Instrument Co Div F C Huyck	3-10
& Sons Park Ave Huntington Station NV 2-3-4-5-6-7	-8-9-10
Warren Corp J C	2
Waveline Inc Passaic Ave Caldwell NJ Westbury Electronics Inc	2
300 Shames Dr Westhirm NV	9.0
West Coast Electronics Co 9261 W 3 St Beverly Hills Calif 2-7-8-9 West Coast Research Corp	-10-11
23 (1 1/2 Westwood Blvd	
Los Angeles 64 Calif 1-3-4-5-6-7-8-9-10	-11-12

Western Electro Acoustic Lab Inc 11789 San Vincente Blvd	
Los Angeles 49 Calif	2
P O Box 868 Pittsburgh 30 Pa 2-3-5- Wiancko Eng'g Co 255 Halstead St Pasadena Calif	6-10-1
255 Halstead St Pasadena Calif	4-5
Wickes Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ Wilcox Electric Co	2-3
1400 Chestnut St Kansas City 27 Mg	2
Wollensak Optical Co 850 Hudson Ave Rochester 22 NY	6
57—MISSILES	
Frequency controls	1
Frequency regulators	2
Fuses, electronic	3
Ground handling equipment	5
Guidance equipment	6 7
Power supplies	8
Seals	9
Telemetering	11
A C Electronics Div General Motors Corp. Toledo Ohio ACF Industries Nuclear Prode-Erro Div.	6
ACF Industries Nuclear Prods-Erco Div 48 Lafayette St Riverdale Md Acme Electric Corp	4-5
Water St Cuba NY Adler Electronics Inc	8
1 LeFevre Lane New Rochelle NY Advanced Products Co	8
59 Broadway North Haven Conn	9
Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass	1-11
Aero Electronics Co 1512 N Wells St Chicago 10 Ill	4
1512 N Wells St Chicago 10 Ill Aeroflex Labs 34-06 Skillman Ave Long Island City 1 NY	
Aerophysics Development Corn	4-5-7
Sub Curtiss-Wright Corp P O Box 689 Santa Barbara Calif AiResearch Mfg Co Div Garrett Corp	5-6
AiResearch Mfg Co Div Garrett Corp 9851 Sepulveda Blvd	
9851 Sepulveda Blvd Los Angeles 45 Calif Airpax Products Co	5-6-8
Middle River Baltimore 20 Md Air Transport Mfg Co	1-2-8
1114 N Sycamore Ave Los Angeles 38 Calif	45.0
Alto Scientific Co	4-5-6
855 Commercial St Palo Alto Calif Amerac Inc	4
116 Topsfield Rd Wenham Mass American Gyro Corp	
American Machine & Foundry Co	f 6
3030 Nebraska Ave Santa Monica Cali American Machine & Foundry Co Electronics Div 1085 Commonwealth Av Boston 15 Mass	e I-5-11
Defense Products Group 1101 N Royal	St
Alexandria Va 2-4-5-6-8- American Research & Mfg Corp	10-11
920 Halpine Ave Rockville Md Ampex Corp	8
934 Charter St Redwood City Calif Analogue Controls Inc	10
39 Roselle St Mineola NY	4-5-6
Applegate & Co C J 1840 24 St Boulder Colo Applied Science Corp of Princeton	3
P O Box No 44 Princeton NJ Arma Div American Bosch Arma Corp	10
Garden City NY	6-7
Arnoux Corp 11924 W Washington Blvd Los Angeles 66 Calif	8
Askania Pagulatan Ca	
240 E Ontario St Chicago 11 Ill Associated Missile Products Sub America Mch & Fdry 2709 N Garey Ave	1 n
romona Calli 1-2-3-4-5-6-	7-8-9
Atlas Eng'g Co 176 Blue Hill Ave Roxbury 19 Mass	8
3801 Castor Ave Philadelphia 24 Pa	6
Auburn Mfg Co Stack St Middletown Conn	9
Autonetics Div North American Aviation	6
Avco Manufacturing Corp Crosley Div 1329 Arlington St Cincinnati 25 Ohio Avion Div ACF Industries Inc	6-10
Avion Div ACF Industries Inc  11 Park Pl Paramus NJ 1-2-4-5	
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P O Box 200 Niagara-on-the-Lake Ontario Canada 4	-6-10
Niagara-on-the-Lake Ontario Canada 4 Babcock Radio Eng'g Inc 7942 Woodley Ave Van Nuys Calif	4-6
Baldwin-Lima-Hamilton Corp Electronics & Instrumentation Div	
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Canal & Beaver Sts Bristol Pa	10

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Bosing Airplane Co Missiles Div  Sons Are Pateron W Go  2-4-5-8 Sons Are Pateron W Go  3-4-5-8 Mon Perkins Are Clerched I (1006 Mon Perkins W Go  3-4-5-8 Mon Perkins Are Clerched I (1006 Mon Perkins W Go  3-4-5-8 Mon Perkins Are Clerched I (1006 Mon Perkins W Go  3-4-5-8 Mon Perkins Are Clerched I (1006 Mon Perkins W Go  3-4-5-8 Mon Perkins W Go  3-4-6-8 Mon Perkins W Go  3-4-6-8 Mon Perkins W Go  3-4-6-8 Mon Perk		Industries Inc	3171 S Bundy Drive
Booke Electric Mrg Co	Boeing Airplane Co Missiles Div	13030 Cerise Ave Hawthorne Calif	Tar Electric & Mfg Co
Brush Richtonics Co Div Clevite Corp 4405 Perkins Are Cleveland 1 00th 4-6 45071 2 Ave Detroit 22 Mich 134-4-5-6-19 56071 2 Ave Detroit 22 Mich 134-5-5-19 57 Principh Guideline Corp 58 Parkith Path Wyanianch 1,1 NY 58 Pallers of Providing 7 R1 58 P	Bogue Electric Mfg Co	588 Commonwealth Ave Boston 15 Mass 10	2806 Clearwater St Los Angeles 39 Calli
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Pine St Ext Nashua NH  Dynamics Research Associates Div Universal Match Corp P O Box 5841 Ferguson 21 Mo Eastern Industries Inc 100 Skiff St Hamden 14 Conn 6-8 Eastern Precision Resistor Corp 675 Barbey St Brooklyn 7 NY 8-10 Eclipse-Pioneer Div Bendix Aviation Corp Eclipse-Pioneer Div Bendix Aviation Corp	Dwyer Eng'g Co	Hughes Aircraft Co	Northrup Aircraft Inc
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Eastern Frecision Resistor Orp  675 Barbey St Brooklyn 7 NY  8-10  Industrial Research Labs Div Aeronca  Eclipse-Pioneer Div Bendix Aviation Corp  Mig Corp Hilltop & Frederick Rds  Mig Corp Hilltop & Frederick Rds  1.4.8.10  P O Box 460 Frederick Md	100 Skiff St Hamden 14 Conn 6-8	Ideal-Aerosmith Inc	3524 W Washington Blvd
Eclipse-Pioneer Div Bendix Aviation Corp Mfg Corp Hillton & Frederick Rds 1.4.8.10 PO Box 460 Frederick Md	675 Barbey St Brooklyn 7 NY 8-10	Industrial Research Labs Div Aeronca	Los Angeles 18 Calif
	Eclipse-Pioneer Div Bendix Aviation Corp	Mig Corp Hilltop & Frederick Rds Baltimore 28 Md 1-4-8-10	P O Box 460 Frederick Md

Ortho Filter Corp 196 Albion Ave Paterson 2 NJ 1	Telectro Industries Corp 35-18 37 St	Avia Products Co
Otis Elevator Co Electronic Div	Long Island City 1 NY 4-6-8-9	7266 Beverly Blvd Los Angeles 36 Calif 6-7-1
35 Ryerson St Brooklyn 5 NY 4-5-6-8-10 Pacific Scientific Co	Tele-Dynamics Inc 32 & Walnut Sts Philadelphia 4 Pa 8-10	Barker & Williamson Inc
P O Box 22019 Los Angeles 22 Calif 6-7	32 & Walnut Sts Philadelphia 4 Pa 8-10 Telephonics Corp	Canal & Beaver Sts Bristol Pa Bell Aircraft Corp
Packard Bell Electronics Corp 12333 W Olympic Blvd	Park Ave Huntington LI NY 8	P O Box 1 Buffalo 5 NY 3-6-11-12-13-14
Los Angeles 64 Calif 4-6-8-10-11	Telerad Mfg Corp 1440 Broadway New York 18 NY 6	Bendix Aviation Corp Bendix Radio Div East Joppa Rd
Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 4-10	Temco Aircraft Corp	Towson 4 Md 6-7-9-11-12-13-1.
10 S 2 St Mt Vernon NY 4-10 Parsons Co Ralph M Electronics Div	P O Box 6191 Dallas 2 Texas 6	Bendix Aviation Corp 1104 Fisher Bldg
151 S De Lacey Ave Pasadena Calif 4-10	Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas 6-8-10	Detroit 2 Mich 3-7-9-11-12-13-1
Perkin-Elmer Corp Main Ave Norwalk Conn 4-6	Thompson Products Inc	Burroughs Corp
Peschel Electronics Inc	Electronics Div 2196 Clarkwood Rd Cleveland 3 Ohio 4	6071 2 Ave Detroit 32 Mich Collins Radio Co
13 Garden St New Rochelle NY 8 Philco Corp Govt & Industrial Div	Topp Industries Inc	855 35 St NE Cedar Rapids Iowa 6-7-9-14
4700 Wissahickon Ave Philadelphia 44 Pa 6	5255 W 102 St Los Angeles 45 Calif 1-4-5-6	Communications Co Coral Gables Fla 6-14
Photographic Analysis Inc 13273 Ventura Blvd N Hollywood Calif 4	Trans Electronics Inc 7349 Canoga Ave Canoga Park Calif 8	Conn Telephone & Electric Corp
Polarad Electronics Corp	Transonic Inc	70 Brittania St Meriden Conn 1-2-3-6-7-8 Consolidated Avionics Corp
43-20 34 St	808 16 St Bakersfield Calif 8	66 Brooklyn Ave Westbury NY
Long Island City 1 NY 4-5-6-10-11 Power Designs Inc	Union Switch & Signal Div Westinghouse Air Brake Co	Consolidated Productions Inc Broward Int'l Airport
89-25 130 St Richmond Hill 18 NY 8 Power Supplies Inc	Braddock Ave Pittsburgh 18 Pa 4-5	Ft Lauderdale Fla
1005 Olive St Highland III 8	United Electrodynamics 1200 S Marengo Ave	Craig Systems Inc
Precision Technology Inc	Pasadena Calif 4-6-8-10-11	90 Holten St Danvers Mass Daven Co
66 South P St Livermore Calif 3-6 Production Research Corp	Universal Atomics Corp 50 Bond St Westbury LI NY 8	Route 10 Livingston NJ
Thornwood NY 4-6-8-10-11	U S Dynamics Corp	Dayton Aviation Radio & Equipment Corp R R 3 Troy Ohio 9-13
Pye Canada Ltd 82 Northline Rd	1250 Columbus Ave Boston 20 Mass 8	DeWald Radio Mfg Corp
Toronto 16 Ontario Canada 10	U S Gauge Div American Machine & Metals Sellersville Pa 4-5-6-11	35-15 37 Ave Long Island City 1 NY 1 Du Mont Labs Inc Allen B
Quantum Electronics Inc	U S Time Corp	760 Bloomfield Ave Clifton NJ 5-7
2312 Wisconsin St N E Albuquerque N Mex 8 Radiation Inc	Waterbury Conn 6-7-10 Varo Mfg Co	Electrical Communications Inc
P O Box 37 Melbourne Fla 4-6-10	2201 Walnut St Garland Texas 1-2-4	765 Clementina St San Francisco 3 Calif 3 Electronic Creations Co
Radionics Inc P O Box 186 Cockeysville Md 8	Vectron Inc	1178 E 180 St New York 60 NY 1
Rahm Instruments Inc	1611 Trapelo Rd Waltham 54 Mass 4 Virginia Electronics Co	Erco Radio Labs Inc 637 Stewart Ave Garden City NY 6-7-14
237 Lafayette St New York 12 NY 6-8-10 Ransom Research	River Rd & B & O R R	Federal Telephone & Radio Co Div IT&T
323 W 7 St San Pedro Calif 1-2-8	Washington 16 DC 4 WacLine Inc	100 Kingsland Rd Clifton NJ 3-6-7-9 Flush Wall Radio Co
Raymond Eng'g Lab Inc	35 S St Clair St Dayton 2 Ohio 2	1012 Cleveland St Clearwater Fla 3
Smith St Middletown Conn 8 Raytheon Mfg Co Ceramic Sales	Wagner Co H A	Gardiner Electronics Co 2545 E Indian School Rd Phoenix Ariz 1
Foundry Ave Waltham Mass 9	14707 Keswick St Van Nuys Calif 4-5-6 Waldorf Instrument Co Div F C Huyck	General Electric Co Communication
Rea Co J B 1723 Cloverfield Blvd	& Sons Park Ave	Products Dept Syracuse NY 7 Goslin Electric & Mfg Co
Santa Monica Calif	Huntington Station NY 4 Waltham Watch Co	2921 W Olive Ave Burbank Calif 7-14-15
Reeves Instrument Corp 215 E 91 St New York 28 NY 6-7	221 Crescent St Waltham 54 Mass 7	Harvey-Wells Electronics Inc
Remler Co	Walton Tool & Die Co 2707 Empire Ave Burbank Calif 5	North St Southbridge Mass 3-11 Industrial Development Eng'g Assoc
2101 Bryant St San Francisco Calif 4-5-6 Resdel Eng'g Corp	Waugh Eng'g Co	7900 Pendleton Pike Indianapolis Ind 6-7 Industrial Radio Corp
330 S Fair Oaks Ave Pasadena Calif 4-11	7842 Burnet Ave Van Nuys Calif 1-2-10 Wells-Gardner & Co	428 N Parkside Ave Chicago 44 Ill 6-7-14-15
Resistonex Corp	2701 N Kildare Ave Chicago 39 111 3	Intelex Systems Inc 22 Thames St New York 6 NY 8
Rheem Mfg Co Electronics Div	Westbury Electronics Inc 300 Shames Dr Westbury NY 6-10-11	Johnson Co EF
7777 Industry Ave Rivera Calif 4-8-10 Rich Electronics Inc	West Coast Electronics Co	Waseca Minn 14 Kaar Eng'g Corp
212 NW 8 Ave Miami 36 Fla	West Coast Research Corp	2995 Middlefield Rd
Rogers Corp	2371 ½ Westwood Blvd Los Angeles 64 Calif 3-4-5-6-8-10-11	Palo Alto Calif Kluge Electronics Inc
R S Electronics Corp	Westinghouse Electric Corp	5 & Main Sts Albion Nebr 11
435 Portage Ave Palo Alto Calif 6-8 Sanders Associates	P O Box 868 Pittsburgh 30 Pa 4-5-6-7 Wincharger Corp	Land-Air Inc 7444 W Wilson Ave Chicago 31 III 3
95 Canal St Nashua NH 7	E 7 & Division St Sioux City 2 Iowa 8	Lane Electronics Mfg Corp 7254 Atoll Ave N Hollywood Calif 9
Sangamo Electric Co Springfield Ill	Winder Aircraft Corp of Florida P O Box 2397 Drane Field Lakeland Fla 4-5-6	Langevin Mfg Corp
Schaffer Air Industries	Zoomar Inc	47-37 Austell Pl Long Island City 1 NY 3 Lear Inc
290 N Henry St Brooklyn 22 NY 4-5 Servo Corp of America	55 Sea Cliff Ave Glen Cove NY 6	3171 S Bundy Drive Santa Monica Calif 9-13
2020 Jericho Turnnike	EA 140 Blom 6	Leitch Eng'g Corp 326 Lincoln St Manchester NH 10-12-13
New Hyde Park NY 6 Servomechanisms Inc	58—MOBILE COMMUNICA-	Link-Radio Corp
12500 Aviation Blvd	TIONS EQUIPMENT	110 Jericho Tpke New Hyde Park LI NY 14 Linlar Inc
Hawthorne Calif Servonics Inc 4-6-8	Citizens radio	4101 San Fernando Rd Glendale 4 Calif 3
822 N Henry St Alexandria Va	Handsets 2	Lynmar Engineers Inc
Significanter Corn	Intercommunicating systems 3	1432 N Carlisle St Philadelphia 21 Pa 11 Lysco Mfg Co
85 Beechwood Ave New Rochelle NY 3 Skiatron Electronics & TV Corp	Pack sets 4	1401 Clinton St Hoboken NJ 6-7-14
180 Varick St New York 14 NV 10	Pickup units, mobile TV 5	Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 10
2000 Posice Ham C. D.	Receivers, fixed 6	Major Electronics Corp
Sorensen & Co	Receivers, mobile	762 Wythe Ave Brooklyn 11 NY 1 Measurement Eng'g Ltd
Richards Ave Norwalk Conn	Telephones, portable field 8	232 John St Arnprior Ontario Can 4
Sperry Gyroscope Co Div Sperry Rand Corp Great Neck NY 4-6-7	Transceivers, aviation 9 Transceivers, lifeboat 10	Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill 11-15
Spellman TV Co	Transceivers, portable 11	Mil Case Corp
8029 Webster Ave New York 67 NY 8 Spivey Inc James S	Transceivers, UHF	35-18 37 St Long Island City NY Mine Safety Appliances Co
4908 Hampden Lane Washington 14 DC 10	Transceivers, VHF	201 N Braddock Ave Pittsburgh 8 Pa 3
U S Route 22 Plainfield MI	Transmitters	Model Eng'g & Mfg Inc
Stewart Warner Electronics Div	Walkie-talkies 15	50 Frederick St Huntington Ind 3-7-9-10-11-12-13-14
Chies N Kostner Ave	Advance Industries Inc	Morrow Radio Mfg Co
Stromberg-Carlson Div Conoral	640 MIemorial Dr Cambridge 39 Mass 14	2794 Market St Salem Ore 14 Mosler Research Products Inc
Dynamics Corp 100 Carlson Rd	Aeronautical Electronics Inc P O Box 6527 Raleigh NC 6-14	3 Keeler St Danbury Conn 14
Sylvania Electric Products Inc.	Airtronix Development Corp	Motorola Communications & Electronics Inc 4501 W Augusta Blvd
1740 Broadway New York 19 NY 6 Systron Corp	4902 Church Ave Brooklyn 3 NY 1 Applied Electronics Co	Chicago 51 Ill 6-7-11-12-13-14-15
2055 Concord Blad Consend C 114	213 E Grand Ave S	Multi-Products Co 21470 Coolidge Hwy Oak Park 37 Mich 7-14
Taller & Cooper	San Francisco Calif 6-10-11 Arvin Industries Inc	National Aeronautical Corp
Telechrome Mfg Corp 1 NY 10	Columbus Ind 7	Ft Washington Industrial Park Ft Washington Pa 9
28 Kanick Dr Amityville II NIV 1016	Audio Sears Corp Shepard Hill Rd Roxbury NY 2	Nevada Air Products Co
Newmarket Pd C	Aveo Mfg Corp Crosley Div	North Electric Co
rewmarket Rd Cambridge England 6	1329 Arlington St Cincinnati 25 Ohio 11-18	553 S Market St Galion Ohio 2-8

			De laste Fraire Co
Olympic Radio & TV	Microbilones	6	Dielectric Products Eng'g Co Raymond Me
34-01 38 Ave Long Island City 1 NY 14 Packard Bell Electronics Corp	Power supplies Power supplies, emergency	8	Downing Crystal Co 191 Shaffer Ave Westminster Md 5
12333 W Olympic Blvd Los Angeles 64 Calif	Pecorders, film	9	Dressen-Barnes Corp 250 N Vinedo Ave Pasadena Calif 7
Pearce Simpson Inc 3023 Coral Way Miami 34 Fla 7-14	Pecorders, magnetic	0	Du Mont Labs Inc Allen B 760 Bloomfield Ave Clifton NJ 4-6-7-8
	Vibration mountings  Aeronautical Electronics Inc.		Edko Electronics Eng's Co 202 Grand St Brooklyn 11 NY
4101 San Fernando Rd Glendale 4 Calif 2-3 Petroff Corp Peter A	P O Box 6527 Raleigh NC	-5-7	
127 Water St New York 5 NY 15 Pratt Albert	Affton Industries 406 St Louis Ave Valley Park Mo	10	4235 W North Ave Chicago 33 III
114 W Lake View Ave	Ainslie Corp 312 Quincy Ave Quincy 69 Mass	2	1902 N 3 St Temple Texas
Production Research Corp	Air Transport Mfg Co		Box 110 St Joseph Mich Electrical Communications Inc
Pve Canada Ltd	1114 N Sycamore Ave Los Angeles 38 Calif	1-2	765 Clementina St
82 Northline Rd Toronto 16 Ontario Canada 3-5-6-9-11-12-13	Alpar Mfg Corp 2910 Spring St Redwood City Calif	1	San Francisco 3 Calli Flattric Regulator Corp
Pye Corp of America 1149 Raritan Ave Highland Park NJ 14	American Communications Corp 280 Broadway New York 17 NY	3	Pearl St Norwalk Conn
Pye Telecommunications Liu	American Machine & Foundry Co		211 South St Stamford 1 Conn
Newmarket Rd Cambridge England 3-4-6-7-10-11-13-14-15	Defense Products Group 1101 N Royal St Alexandria Va	7-8	Electrovert Inc 489 5 Ave New York NY
Radio Corp of America Commercial Electronics Products Camden 2 NJ 3-6-7-14	American Rectifier Corp 95 Lafayette St New York 13 NY	8	Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich Cecil & Carrol Sts Buchanan Mich
Radio Kits Inc 120 Cedar St New York 6 NY 1-10	American Television & Radio Co	7	Elgin National Watch Co Electronics 2435 N Naomi St Burbank Calif
- D:- IDEA Inc	300 E 4 St St Paul 1 Minn Ampex Corp	10	Elgin National Watch Co 107 National St Elgin III
7900 Pendleton Fike Illulariano	934 Charter St Redwood City Calif Amplivox Ltd		Elm Labs
330 S Fair Oaks Ave Pasadena Cam 5 12	2 Bentiner St London W I England	6	10 Washington Ave Hastings-on-Hudson NY
2908 Nebraska Ave Santa Monica Cam	Andrew California Corp 941 E Marylind Ave Claremont Calif	1	Enflo Corp Rte 38 at Airport Circle
662 Pacific St Brooklyn 17 N 1	Andrew Antenna Corp 606 Beech St Whitby Ontario Can	1	Pennsauken 11 NJ
Roflan Co Topsfield Mass	Andrew Corp 363 E 75 St Chicago 19 Ill	1	637 Stewart Ave Garden City Ni
Roland Radio Corp 716 S Columbus Ave Mt Vernon NY 1	Antonno Spacialista CO	1	Federal Mfg & Eng'g Corp 1055 Stewart Ave Garden City NY 10
Royal Communication Systems	12435 Euclid Ave Cleveland 6 Ohio Assembly Products Inc		Federal Shockmount Corp
Cleveland 6 Ohio	Wilson Mills Rd Chesterland I Unio	3	1060 washington Available Tederal Telephone & Radio Co. Div IT&T 100 Kingsland Rd Clifton NJ 4
Ryan Co S C 1316 Yale Place Minneapolis 3 Minn 1	250 Harbor St Conneaut Ohio Atlas Precision Products Co	6	Felt & Tarrant Mig Co Comptometer Dictation Div
Seeley Electronics 1060 S La Brea Ave	3801 Castor Ave Philadelphia 24 1 a	2	Algonquin III
Los Angeles 19 Calif	Avia Products Co 7266 Beverly Blvd Los Angeles 36 Cali	<b>f</b> 6	Fischer & Porter Co 478 Warminster Rd Hatboro Pa 3
Simpson Mig Co. Mark. 32-28 49 St. Long Island City 3 NY 2-3 32-28 49 St. Long Island City 3 NY 2-3 Specialty Eng'g & Electronics Co. Specialty Eng'g & Electronics Co.	Resett Inc Rex	1-2-5	General Crystal Co  5  6  7  7  7  7  7  7  7  7  7  7  7  7
	Bell Aircraft Corp	4-7-8	Gabriel Electronics Div Gabriel Co 135 Crescent Rd
Springer Aircraft Radio Co Earl W	P O Box 1 Buffalo 5 NY Bell Sound Systems Inc		Needham Heights 94 Mass
Stewart Warner Electronics Div 1300 N Kostner Ave Chicago 51 III 6-14	555 Marion Rd Columbus 7 Ohio Bendix Aviation Corp Bendix Radio	10	General Nuclear Corp 550 5 Ave New York 32 NY
Sperry Products Inc Shelter Rock Rd Danbury Conn 3	Div East Joppa Rd	-4-7-8	General Precision Lab Inc 63 Bedford Rd Pleasantville NY 4
Stromberg-Carison Div General	Pandix Aviation Corp	1-4	Gordon Enterprises 5362 N Cahuenga Blvd N Hollywood Calif 9
Dynamics Corp 100 Carlson Rd Rochester 3 NY 1-2-13	1104 Fisher Bldg Detroit 2 Mich Bliley Electric Co		
Tarzian Inc Sarkes E Hillside Drive Bloomington Ind 5	Union Station Bldg Erie Pa Bogue Electric Mfg Co	5	8352 Brookhurst Ave Anaheim Calif Heath Co
Telectro Industries Corp 35-18 37 St Long Island City 1 NY 3	Iowa Ave Paterson 3 NJ	8	Heath Co 305 Territorial Rd Benton Harbor Mich Hill Electronic Eng'g & Mfg Co
m. I. Dumamica Inc	Breon Labs 1520 Evergreen Rd Williamsport Pa	5	New Kingstown Pa
Telemarine Communications Co	Bristol Co P.O. Box 1790 EITT Waterhury 20 Con	n	Hobert Square E Troy 3 Unio
3040 W 21 St Brooklyn 24 NY 6-7-14 Telephonics Corp	Brush Electronics Co Div Clevite Corp 3405 Perkins Ave Cleveland 14 Ohio	5	Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY 7-8
Dawk Ave	Rudelman Radio Corp	1	Hunt Corp
Till-tone Co of America	375 Fairfield Ave Stamford Conn Buggie Inc H H		Hupp Electronics Co Div Hupp Co. P
1178 E 180 St Bronx ov 141	P O Box 817 Toledo 1 Ohio Bulova Watch Co Electronics Div	1	Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind
6000 Lemmon Ave Dallas 9 16x48	40-01 61 St Woodside 77 N I	5	
186 Granite St Manchester NH	Calif Magnetic Control Corp 11922 Valerio St N Hollywood Calif	8	428 N Parkside Ave Chicago 44 III
Trans-Tel Corp 736 N Highland Ave	Channel Master Corp Ellenville NY	2	Div Aeronca Mig Corp Hillton & Frederick Rds Baltimore 28 Md
Los Angeles 38 Calif Transval Eng'g Corp	Chu Associates 634 Waverly St Framingham Mass	1	Insuline Corp of America 186 Granite St Manchester NH 1-5
10401 W Jefferson Blvd Culver City Calif	Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham		
m El-stronics Inc	London SE 26 England	3	18 N Lee Ave Okianoma City 1 Onth
812 N Highland Ave Los Angeles in Carr	Clark Crystal Co	5	Warren Ave Stirling NJ
P O Box 33E Charlottesville Va	Clegg Labs Div Clegg Inc Ridgedale Ave Morristown NJ	7	Products Div 601 E Erie Ave
River Rd & B & O R R	Collins Radio Co 855 35 St NE Cedar Rapids Iowa	7	Philadelphia 34 Pa James Vibrapowr Co 4050 N Rockwell St Chicago 18 III 7-
Vocaline Co of America	a. Ihia Duoduote Co	1	Water Engig Co
Old Saybrook Colli	6625 Shakespeare Rd Columbia SC Condenser Products Div	•	1415 1 Ave Mankato Minn
835 N 19 St Philadelphia 30 1 a	New Haven Clock & Watch Co	8	Box 891 Mankato Minn
Warren Corp J C 21 Hanse Ave Freeport NY 11-15	Conn Telephone & Electric Corp 70 Brittania St Meriden Conn	6	Katolight Corp 1415 1 Ave Mankato Minn 7-
Wincharger Corp E 7 & Division St Sioux City 2 Iowa 1	Combin Corn	3	Kepco Labs   131-38 Sanford Ave Flushing NY 7-
Zenith Radio Corp 6001 Dickens Ave Chicago 39 III 1	5419 56 Pl Riverdale Md		Kidde & Co Walter
T 0 TH Man Como	333 Hamilton Blvd S Plainfield NJ Craig Systems Inc	7-8	Vluge Electronics Inc
30240 Lakeland Blvd Wickliffe Ohio 1	90 Holten St Danvers Mass	1-4	5 & Main Sts Albion Nebr Knights Co James
59-MOBILE COMMUNICA-	Dallons Labs 5066 Santa Monica Blvd	5	Church & Wells St Sandwich In
TIONS ACCESSORIES	Los Angeles 29 Calif Defender Instrument & Regulator Co		3145-A N 48 St Milwaukee 16 W 18
Antennas 1	Boody Ill Devco Eng'g Inc	4	Leach Corp Inet-Palmer Div 4441 S Santa Fe Ave
Antenna bases	P O Box 387 Caldwell NJ Diamond Antenna & Microwave Corp	3	Los Angeles 58 Calif
Auto alarms 3	7 North Ave Wakeneld Mass	2	2806 Clearwater St Los Angeles 39 Calif Leitch Eng's Corp
Control equipment	Diatron Co 3327 Dixie Dr Houston 21 Texas	3	326 Lincoln St Manchester NH
Olivarian contraction of the con			

Lewis Co E B  11 Bragg St E Hartford 8 Conn Lorentzen Inc H K	6
	2
Lord Mfg Co 1635 W 12 St Erie 6 Pa	
Lysco Mfg Co 1401 Clinton St Hoboken NJ	11
	1-7
Chestnut & Watts Sts Mt Holly Spri Mackay Radio & Telegraph Co Marine 133 Terminal Ave Clark NJ Magnetic Amplifiers Inc	ngs Pa 5 e Div
Magnetic Amplifiers Inc	3
	8
Manson Laboratories Inc 207 Greenwich Ave Stamford Conn Mark Products Co	5
6412 W Lincoln Ave Morton Grove Master Mobile Mounts Inc 1306 Bond St Los Angeles 15 Calif Mayfair Molded Products Corp 3700 N Poses St Evenbells 19	III 1
1306 Bond St Los Angeles 15 Calif	1
3700 N Rose St Franklin Park Ill Measurement Eng'g Ltd	2
232 John St Arnprior Ontario Can	3
Mercury Electronic Co Box 450 B Red Bank NJ	7-11
Metal Fabricators Corp 73 Pond St Waltham 54 Mass	2
854 N Rockwell St Chicago 22 Ill	4-10
Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill Miles Reproducer Co 812 Broadway New York 3 NY Minneapolis-Honeywell Regulator Co	9
Minneapolis-Honeywell Regulator Co Davies Labs Div 10721 Hanna St	_
Beltsville Md Minor Rubber Co	10
Ackerman St Bloomfield NJ Mobil Electronics Mfg Co	11
1111 State Rd 67 E Anderson Ind Model Eng'g & Mfg Inc	3
50 Frederick St Huntington Ind Mohawk Business Machines Corp	7
344 Halsey St Brooklyn 33 NY	10
Monitor Products Co 815 Fremont Ave South Pasadena C	alif 5
21470 Coolidge Hwy Oak Park 37 M Nebel Laboratory R E 1634 E 12 St Brooklyn 29 NY	5
Newcomb Spring Corp 177 E Hawthorne Ave Valley Stream	
Norma Hoffmann Bearings Corp Walke Hamilton Ave Stamford Conn	er Div
North Electric Co	8
553 S Market St Galion Ohio O'Brien Electric Corp	7
6514 Santa Monica Blvd Hollywood 38 Calif	3
Onan & Sons D W 2515 University Ave SE	
2515 University Ave SE Minneapolis 14 Minn Otis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY	7-8
Tan-Electronics Corp	4-7
Ruth St Griffin Ga Panellit Inc	5
7401 N Hamlin Ave Skekie III	3
Pentron Corp 777 S Tripp Ave Chicago 24 Ill Permoflux Products Co	10
Permoflux Products Co 4101 San Fernando Rd Glendale 4 Ca Permonite Mfg Co	lif 7-8
444 Lake Shore Dr Chicago 11 III Peschel Electronics Inc	2
13 Garden St New Rochella NV	7-8
Petroff Corp Peter A 127 Water St New York 5 NY Pioneer Gen-E-Motor Corp	1-2
Pioneer Gen-E-Motor Corp 5841 W Dickens Ave Chicago 39 Ill Potter Aeronautical Corp	8
P O Box 532 Union NJ Power Supplies Inc	3
1005 Ulive St Highland Ill	7-8
Pratt Albert 114 W Lake View Ave Milwaukee 17 Precision Crystal Lab	Wis 7
4223 Warwick Ave Santa Monica Co	alif 5
Premax Products Div Chisholm-Ryder C College & Highland Aves Niagara Falls NY	o
Premier Research Labs Inc	1
79 7 Ave New York 11 NY Prodelin Inc	5
307 Bergen Ave Kearny NJ Production Research Corp	1
Thornwood NY Pye Canada Ltd	8
82 Northline Rd	
Toronto 16 Ontario Canada Pye Telecommunications Ltd	1-4-5-7
Newmarket Rd Cambridge England 1-2.	-3-4-5-6
2312 Wisconsin St NE	
Radio Corp of America Commercial	7-8
	1-4
Ransom Research 323 W 7 St San Pedro Calif Reeves-Hoffman Div Standard Electron	7
Corp 145 Cherry St Carlisle Pa	
Regency Div IDEA Inc	5
7900 Pendleton Pike Indianapolis Ind Remler Co 2101 Bryant St San Francisco Calif	
	6

## ELECTRONIC INDUSTRIES DIRECTORY

Roanwell Corp 662 Pacific St Brooklyn 17 NY	
Roflan Co Topsfield Mass	
Rohn Mfg Co 116 Limestone Bellevue Peoria 5 Ill	
Royal Communication Contact	1-1
11462 Euclid Ave Cleveland 6 Ohio Rubbercraft Corp of Calif 1800 W 220 St Torrance Calif Sangamo Electric Co	
Sangamo Electric Co	1:
Springfield Ill Scala Radio Co	7-8
2814 19 St San Francisco 10 Calif Schirmer-National Alarm Co 20 Westside Ave Bergenfield NJ	1
20 Westside Ave Bergenfield NJ Scientific Radio Products Inc	8
Scientific Radio Products Inc 215 S 11 St Omaha Nebr Scientific Radio Service	5
Hyattsville Md	5
Sel-Rex Corp 155 Manchester Pl Newark 4 NJ	8
Sheppard Co R H 101 Philadelphia St Hanover Pa	7
Shure Bros	6
Snyder Mig Co 22 & Ontario Sts Philadelphia 40 Pa	1
146 Mungon St Now Hoven 9 Com-	10
South River Metal Products Co 377 Turnpike South River NJ Sparton Control Systems Div Sparks- Withington Co 2301 E Michigan Ave	
Sparton Control Systems Div Sparks-	2
	3
Specialty Eng'g & Electronics Co 79 Clifton Pl Brooklyn 38 NY Stancil-Hoffman Corp	3
921 N Highland Ave Hollywood 38 Cal Standard Crystal Co	if 10
1714 Locust St Kansas City Mo	5
Stone City Machine & Tool Co 1206 7 St Bedford Ind Taller & Cooper	11
75 Front St Brooklyn 1 NY	3
75 Front St Brooklyn 1 NY Technical Appliance Corp 1 Taco St Sherburne NY	1-2
4126 Colerain Ave Cincinnati 23 Obio	5
Telectro Industries Corp 35-18 37 St Long Island City 1 NY 7-1	
Telephonics Corp	0-11
Park Ave Huntington LI NY Tenna Mfg Go	6
7580 Garfield Blvd Cleveland 25 Ohio Trans Electronics Inc 7349 Canoga Ave Canoga Park Calif	1
Turner Co	8
909 17 St N E Cedar Rapids Iowa TV Hardware Mfg Co Div Textron Inc.	6
400 S Wyman St Rockford Ill TV Specialty Co	2
350 W 31 St New York 1 NV	9
Universal Atomics Corp 50 Bond St Westbury LI NY	7-8
Universal Microphone Co Box 55 Inglewood Calif Uniwaye Inc	6
2 Marine St Farmingdale NY	2
U S Dynamics Corp 1250 Columbus Ave Boston 20 Mass	7
U S Instrument Corp P O Box 33E Charlottesville Va	6
Valpey Crystal Corp 1244 Highland St Holliston Mass	5
Varo Mfg Co 2201 Walnut St Garland Texas	7
Vibration Research Labs 97 Lake Ave Tuckahoe NY	8
Virginia Electronics Co River Rd & B & O R R	
Washington 16 DC 1.4	-7-8
Voron & Co George 835 N 19 St Philadelphia 30 Pa Ward Products Corp	4
	1
1148 Euclid Ave Cleveland 15 Ohio	
Warren Corp J C 21 Hanse Ave Freeport NY	10
1148 Euclid Ave Cleveland 15 Ohio Warren Corp J C 21 Hanse Ave Freeport NY Webster Mfg Co 242 Shoreline Hwy Mill Valley Calif White & Son James L.	
1148 Euclid Ave Cleveland 15 Ohio Warren Corp J C 21 Hanse Ave Freeport NY Webster Mfg Co 242 Shoreline Hwy Mill Valley Calif White & Son James L.	10
1148 Euclid Ave Cleveland 15 Ohio Warren Corp J C 21 Hanse Ave Freeport NY Webster Mfg Co 242 Shoreline Hwy Mill Valley Calif White & Son James L 374 Verona Ave Newark 4 NJ Wide Range Recording Corp 527 N Grand Blyd St Louis 8 Mo	10 1
1148 Euclid Ave Cleveland 15 Ohio Warren Corp J C 21 Hanse Ave Freeport NY Webster Mfg Co 242 Shoreline Hwy Mill Valley Calif White & Son James L 374 Verona Ave Newark 4 NJ Wide Range Recording Corp 527 N Grand Blvd St Louis 3 Mo Wincharger Corp	10 1 1 9
1148 Euclid Ave Cleveland 15 Ohio Warren Corp J C 21 Hanse Ave Freeport NY Webster Mfr Co 242 Shoreline Hwy Mill Valley Calif White & Son James L 374 Verona Ave Newark 4 NJ Wide Range Recording Corp 527 N Grand Blvd St Louis 3 Mo Wincharger Corp E 7 & Division St Sioux City 2 Iowa Winder Aircraft Corp of Florida	10 1 1 9
1148 Euclid Ave Cleveland 15 Ohio Warren Corp J C 21 Hanse Ave Freeport NY Webster Mfg Co 242 Shoreline Hwy Mill Valley Calif White & Son James L 374 Verona Ave Newark 4 NJ Wide Range Recording Corp 527 N Grand Blyd St Louis 3 Mo Wincharger Corp	10 1 1 9

Wright Electronics Inc	
1519 McGee St Kansas City 5 Mo Zenith Plastics Co 1600 W 135 St Gardena Calif	
60—MOTION PICTURE	
EQUIPMENT	
Cameras, 8MM	
Cameras, 16MM	. 2
Kinescope recording apparatu	s 4
Projectors, 8MM	. 5
Projectors, 35MM	. 7
Projectors, rear	
Sound readers	. 10
Tape, synchronized magnetic Affton Industries	. 11
406 St Louis Ave Valley Park Mo Aloe Scientific	5-6-11
5655 Kingsbury Blvd St Louis 12 Mo Ampex Corp	**
934 Charter St Rod City Colif	11
Audio-Video Recording Co 730 5 Ave New York 19 NY Beckman & Whitley	11
973 E San Carlos Ave San Carlos Cal: Bell & Howell	if 3
7100 McCormick Rd Chicago 45 III 1	2-3-5-6
Berndt-Bach Inc Auricon Div 6900 Romaine St Hollywood 38 Calif Benson-Lehner Corp	2-4
11930 W Olympic Blvd	2
Los Angeles 64 Calli Beseler Co Charles 219 S 18 St E Orange NJ Bodde Screen & Projector Co 11541 Bradley Ave San Fernando Ca Buss-Clement-Doughton & Associates	8-0
Bodde Screen & Projector Co	lif 8
Buss-Clement-Doughten & Associates 201 B Studio Hill Chester Spring Pa 2	
Cameraflex Corp 1947 Broadway New York 23 NY	3
Camera Mart Inc	10
1845 Broadway New York 28 NY Century Lighting Inc 521 W 43 St New York 36 NY	8
Century Projector Corp 729 7 Ave New York 19 NY	7
Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham	
521 W 43 St New York 36 NY Century Projector Corp 729 7 Ave New York 19 NY Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London SE 26 England Cinematic Developments 2125 32 Ave San Francisco 16 Calif Cossor (Canada) Ltd 301 Windsor St Halifay Nova Scotic Canada	9
2125 32 Ave San Francisco 16 Calif Cossor (Canada) Ltd	2-3
301 Windsor St Halifax Nova Scotia Canada Eastman Kodak Co	6
343 State St Rochester 4 NY 1-2-3-4-	5-6-7-9
Exakta Camera Co 705 Bronx River Rd Bronxville 8 NY	1-3
Fairchild Camera & Instrument Corp Industrial Camera Div 88-06 Van Wyc	
Expressway Jamaica 1 NY Fecker Inc. I W	2
6592 Hamilton Ave Pittsburgh 6 Pa Federal Mfg & Eng'g Corp 1055 Stewart Ave Garden City NY	3
Flight Research Inc P O Box 1-F Richmond 1 Va	- 6
General Precision Lab Inc 63 Bedford Rd Pleasantville NJ 4-6	2-3
63 Bedford Rd Pleasantville NJ 4-4 Gordon Enterprises 5362 N Cahuenga Blvd	5-7-8-9
N Hollywood Calif 1-2-3-4-5-6-7-	8-9-10
Graflex Inc 154 Clarissa St Rochester 8 NY Houston Feedleys Div Colon Compact American	3-6
Houston Fearless Div Color Corp of Ame 11801 W Olympic Blvd Los Angeles 64 Calif	
Los Angeles 64 Calif Land-Air Inc Instrument & Electronic Di 2133 Adams Ave San Leandro Calif	2-3
Las-Lab Inc 220 S Mt Olivet Lane Baltimore 29 M.	1-2-3
Mack Electronics Div Inc Sub Mack True	ks 6
magnasync Mig Co	10
5546 Satsuma Ave N Hollywood Calif Maurer Inc J A 37-01 31 St Long Island City 1 NY Motiograph Inc 4441 W Lake St Chicago 24 Ill National Cine Equipment Inc	2-3
Motiograph Inc 4441 W Lake St Chicago 24 III	7
National Cine Equipment Inc 209 W 48 St New York 36 NY	2-3-4
Nemeth Inc 2223 S Carmelina Ave	• 0 .
Los Angeles 64 Calif	1-2
Pembrex Theatre Supply Corp 1969 S Vermont Ave Los Angeles 7 C Pentron Corp	alif 8
1969 S Vermont Ave Los Angeles 7 C Pentron Corp 777 S Tripp Ave Chicago 24 Ill Potographic Analysis Inc 13273 Ventura Blvd N Hollywood Cali Producers Sales Corp	11
13273 Ventura Blvd N Hollywood Cali Producers Sales Corp	f 2
	-6-7-8
SC Applied Research Ltd 1500 O'Connor Dr Toronto 16 Canada tadio Corp of America Commercial Electronic Products Commercial	3
langertone Inc	6-7
73 Winthrop St Newark 4 NJ	11

Simplex Equipment Corp	Corona Eng'g Service	Pentron Corp 777 S Tripp Ave Chicago 24 Ill 23
55 La France Ave Bloomfield NJ 7	94-52 Corona Ave Elmhurst 73 NY 1 Da-Lite Screen Co	Perkin-Elmer Corp
Skiatron Electronics & TV Corp 180 Varick St New York 14 NY 10	Warsaw Ind 20	Main Ave Norwalk Conn 9-26
Sylvania Electric Products Inc	Dallons Labs	Polarizing Instrument Co S Buckhout St Irvington NY
1740 Broadway New York 19 NY 3-7 Taller & Cooper	5066 Santa Monica Blvd Los Angeles 29 Calif 21	Prestoscal Mfg Corp
75 Front St Brooklyn 1 NY 2	Davenport Mfg Co	37-27 33 St Long Island City 1 NY Producers Sales Corp
Tare Electronics Inc 48 Urban Ave Westbury LI NY 5-6-7-8-9	1713 N Ashland Ave Chicago 22 Ill 1	2704 W Olive Ave Burbank Calif 24
Tarzian Inc Sarkes	Dittmore-Freimuth Corp 2517 E Norwich St Milwaukee 7 Wis 22	Production Research Corp
E Hillside Drive Bloomington Ind 2-3-6-7	Dynamu Magnetronics Corp Div Maico Co	Dvo Canada Ltd
Trans-Lux Corp 625 Madison Ave New York 22 NY 8	21 N 3 St Minneapolis 1 Minn 8	82 Northline Rd Toronto 16 Ont Canada 26
TV Specialty Co	Eastman Kodak Co 343 State St Rochester 4 NY 2-4-6-7-22	Radiant Lamp Corp
350 W 31 St New York 1 NY 1-2-3-4-8 Victor Animatograph Corp	Eisler Eng'g Co	Radio Corp of America
Plainville Conn 6	750 S 13 St Newark 3 NJ Equipto Div Aurora Equipment Co	Commercial Electronic Products
Vought Co P O Box 1350 Beverly Hills Calif 2-3	Aurora Ill 14	Camden 2 NJ Radio Corp of America
Wenzel Projector Co	Ercona Corp 551 5 Ave New York 17 NY 7-9-22	415 S 5 St Harrison NJ
2505 S State St Chicago 16 III 7	551 5 Ave New York 17 NY 7-9-22 Exakta Camera Co	Raven Screen Corp
Wide Range Recording Corp 527 N Grand Blvd St Louis 3 Mo 11	705 Bronx River Rd Bronxville 8 NY 7	Robbins Industries Corp
Wilmar Mfg Co	Fecker Inc J W 6592 Hamilton Ave Pittsburgh 6 Pa 7	214-26 41 Ave Bayside 61 NY 22
1110 Truman Rd Kansas City Mo 6 Wollensak Optical Co	Fish-Shurman Corp	Rosco Labs 29 Moore St Brooklyn 6 NY
850 Hudson Ave Rochester 22 NY 1-2-3-5-6	70 Portman Rd New Rochelle NY 9-10-25	Scientific Glass Apparatus Co
/ MOTION DISTURT	Florman & Babb 68 W 45 St New York 36 NY 4-7-21-22	100 Lakewood Terrace Bloomfield NJ 12
61—MOTION PICTURE	Gaertner Scientific Corp	Shepard Labs Inc 480 Morris Ave Summit NJ
EQUIPMENT	1250 Wrightwood Ave Chicago 14 Ill 9 General Chemical Div Allied Chemical	Skiatron Electronics & TV Corp
ACCESSORIES	& Dve Corp 40 Rector St	180 Varick St New York 14 NY 9-16
Animation equipment 1	New York 6 NY	Sound Screen Supplies Inc 752 Broadway New York 8 NY 20
Chemical developers	General Photo Products Co 15 Summit Ave Chatham NJ 2	Ciancil Hoffman Corn
Cue markers	General Precision Lab Inc	921 N Highland Ave Hollywood 38 Calif Standard Record Mfg Co
Editing equipment 4	63 Bedford Rd Pleasantville NY 26 General Transistor Western Corp	70 N San Gabriel Blvd
Film cans 5	6110 Venice Blvd Los Angeles 34 Calif 8	Pasadena 8 Calif Strong Electric Corp
Film scrapers	Gordon Enterprises	87 City Park Ave Toledo 1 Ohio 12
Lenses 7	5362 N Cahuenga Blvd 1-3-4-5-7-9-10-11 N Hollywood Calif 14-15-18-19-20-25-26	Sylvania Electric Products Inc
Magnetic filmheads	Gray Research & Development Co	1740 Broadway New York 19 NY 12 Tarc Electronics Inc
Optical apparatus	Hilliard St Manchester Conn 9 Griswold Machine Works	48 Urban Ave Westbury Ll NY 21
Printing equipment	Port Jefferson NY 22	Tayloreel Corp 185 Murray St Rochester 6 NY 17
Processing equipment	Hallamore Electronics Co	Telectro Industries Corp
Projection lamps	8352 Brookhurst Ave Anaheim Calif Hayward Scientific Glass Corp	35 18 37 St Long Island City 1 NY 22
Projector stands	217 N Magnolia Ave Whittier I Calif 7-9	Terris Div Consolidated Siphon Supply Co 22 Wooster St New York 13 NY 24
Range finders	Houston Fearless Div Color Corp of America	Testa Mfg Co
Rapid development equipment 16	11801 W Olympic Blvd Los Angeles 64 Calif 7-11	10122 E Rush St El Monte Calif
Reels, continuous projection 17	Instrumentation Associates	Texas Instruments Inc 6000 Lemmon Avc Dallas 9 Texas
Rewinds, auto	17 W 60 St New York 23 NY	Tinsley Labs Inc
Screens, background 19	Jarrell-Ash Co 26 Farwell St Newtonville 60 Mass 9	2526 Grove St Berkeley 4 Calif
Screens, projection 20	Kinevox-Hallen Div Electromation Co	Trans-Lux Corp 625 Madison Ave New York 22 NY 19-20
Special effects equipment 21	1646 18 St Santa Monica Calif 22 Land-Air Inc Instrument & Electronic Div	TV Specialty Co
Splicing equipment	2133 Adams Ave San Leandro Calif 5-9	350 W 31 St 1-4-5-8-11-12-14- New York 1 NY 16-19-20-21-24
Tape-to-film sound transfer equip 23	Lenox Instrument Co	Hiller Cine Machine Co
Titling equipment	Liberty Mirror Div Libbey Owens Ford	15762 Wyoming Ave Detroit 38 Mich
View finders	Glass Co Brackenridge Pa	Vocalite Screen Corp 19 Debevoise Ave Roosevelt NY 19-20
Zoom lenses	Lipps Co Edwin A 5485 W Washington Blvd	Wagner Co H A
Affton Industries 406 St Louis Ave Valley Park Mo 23	los Angeles 16 Calif	14707 Keswick St Van Nuys Calif Watson Mfg Co
Air Transport Mfg Co	Magnasync Mfg Co 5546 Satsuma Ave N Hollywood Calif 8-23	3700 Taylor St Jamestown NY
1114 N Sycamore Ave Los Angeles 38 Calif 14	MagneTec Corp	Westrex Corp 111 8 Ave New York 11 NY
Aloe Scientific	11785 W Olympic Blvd	Wide Bange Recording Corp
5655 Kingsbury Blvd St Louis 12 Mo 12	W Los Angeles 64 Calif Maurer Inc J A	527 N Grand Blvd St Louis 3 Mo
Anchor Specialty Mfg Co Hollister Rd Teterboro NJ	37-01 31 St	Winder Aircraft Corp of Florida PO Box 2397 Drane Field Lakeland Fla 5
Astatic Corp	Long Island City 1 NY 9-11-15-22-25 Merck & Co Inc Chemical Div	Wallangak Ontical Co
250 Harbor St Conneaut Ohio 14 Atlas Film Corp	Rahway NJ	Zanith Ontical Lah
1111 S Blvd Oak Park Ill 5	Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill 1	1940 Great Neck Rd Copiague LI NY
Axler Associates Inc	Minnesota Mining & Mfg Co	Zoomar Inc
102-42 43 Ave Corona 68 NY Bache & Co Semon	900 Fauquier Ave St Paul 6 Minn 22	99 Bea Chili Ave Olen Cove
636 Greenwich St New York 14 NY 7	Motiograph Inc 4441 W Lake St Chicago 24 III 12-14	62-MOTION PICTURE FILM
Bausch & Lomb Optical Co 628 St Paul St Rochester 2 NY	Moviola Mfg Co	Film, magnetic stripe 1
Bell & Howell	1451 N Gordon St Hollywood 28 Calif	Film, raw stock 2
7100 McCormick Rd Chicago 45 Ill 4-5	National Carbon Co Div Union Carbide & Carbon	Film, storage
Bodde Screen & Projector Co 11541 Bradley Ave	30 E 42 St New York 17 NY 13	Atlas Film Corp
San Fernando Calif 11-19-20	National Cine Equipment Inc 209 W 48 St New York 36 NY 7-9-21-25	1111 S Blvd Oak Park Ill 2-3
Brush Electronics Co 3405 Perkins Ave Cleveland 14 Ohio 8	Neumade Products Corp	Audio Devices Inc 444 Madison Ave New York 22 NY
Buchanan Electrical Products Corp	250 W 57 St New York 19 NY 5-6-11-14-18-22	Rell & Howell
225 Route 22 Hillside NJ 22	Norton Associates Inc	7100 McCormick Rd Chicago 45 III Camera Equipment Co
Buhl Optical Co 1009 Beech Ave Pittsburgh 33 Pa 7-9	PO Box 96 Garden_City NY 8	315 W 43 St New York 36 NY
Rurnall & Co	Optical Coating Lab Inc 1035 Sebastopol Rd Santa Rosa Calif 9	Du Mont Labs Inc Allen B
45 Warburton Ave Yonkers NY 16	Optical Gaging Products Inc	760 Bloomfield Ave Clifton NJ Du Pont De Nemours & Co E I
Buss-Clement-Doughten & Associates 201 B Studio Hill Chester Springs Pa 1	26 Forbes St Rochester 11 NY	Wilmington 98 Dela
Camera Equipment Co	Optionic Research Inc 1374 Massachusetts Ave	Fastman Kodsk Co
315 W 43 St	Cambridge 38 Mass 9	343 State St Rochester 4 NY Minnesota Mining & Mfg Co
New York 36 NY 4-7-11-14-23-26 Camera Mart Inc	Opto Eng's Co 3524 W Washington Blvd	900 Fauquier Ave St Paul 6 Minn
1845 Broadway New York 23 NY 4-21	Los Angeles 18 Calif 9	Musicolor Inc
Century Projector Corp	Pacific Optical Corp	333 N Michigan Ave Chicago 1 Ill Neumade Products Corp
729 7 Ave New York 19 NY Chicago Aerial Industries Inc	120 Glasgow Ave Inglewood 1 Calif 7-9-26 Pampa Electronics Corp	250 W 57 St New York 19 NY
1980 N Hawthorne Ave Melrose Park Ill 9-25	7354 Frankford Ave Philadelphia 36 Pa 8	Sparta Mfg Co Dover O
Chromatic Television Laboratories	Par Products Corp 602 Colorado Ave Santa Monica Calif 9	Westrex Corp 111 8 Ave New York 11 NY
1501 Broadway New York 36 NY 9-11-16	002 Colorado Ave Santa Montea Cam	-

63-MOTORS & GENERATORS	Barker & Williamson Inc	Design Tool Corp
Alternators 1	Canal & Beaver Sts Bristol Pa 19 Beckman/Helipot Corp	80 Washington St New York 6 NY 3:
Blowers 2	Newport Beach Calif 16-28	Devol Research Co Brookside Dr Greenwich Conn 3:
Brush holders 3	Bekey Electric Co 1327 S Main St 1-16-17-19-20-22-23-	Diehl Mfg Co
Brushes, motor 4	Los Angeles 15 Calif 24-25-28-29-32	Finderne Ave 2-17-20-22-23
Clutches 5	Bell Aircraft Corp	Somerville NJ 24-26-28-3 Dudek & Co R C
Commutators 6	P O Box 1 Buffalo 5 NY 9 Belock Instrument Corp	407 N Maple Dr Beverly Hills Calif 1
Contacts, motor & generator 7	111-01 14 Ave College Point 56 NY 35	Du Mont Labs Inc Allen B
Controls 8	Bendix Aviation Corp 1104 Fisher Bldg 1-9-12-16-20-23-	760 Bloomfield Ave Clifton NJ 2: Dumore Co
Converters, rotary 9	Detroit 2 Mich 24-26-28-38	1300 17 St Racine Wisc 2
Couplings, flexible	Bendix Aviation Corp	Dynamic Air Eng'g Inc
Dynamotors	Red Bank Div Eatontown NJ 1-9-16-17 Birnbach Radio Co	7412 Maie Ave Los Angeles 1 Calif 2-15-20-23-24-3:
Engines, diesel	145 Hudson St New York 13 NY 11	Dynamics Instrumentation Co
Engines, gas	B J Electronics Borg-Warner Corp	Div Alberhill Corp
Fans 15	3300 Newport Ave Santa Ana Calif 19 Bodine Electric Co	1118 Mission St S Pasadena Calif Eastern Air Devices Inc
Generators, AC 16	2254 W Ohio St 20-22-23-24-	385 Central Ave 1-16-20-22-24
Generators, DC	Chicago 12 Ill 25-26-27-28-29-30-32 Bogue Electric Mfg Co	Dover NH 25-26-27-28-29-3
Generators, hand-crank 18	Iowa Ave 1-5-7-8-12-16-	Eastern Industries Inc 100 Skiff St Hamden 14 Conn 3.
Generators, high freq. power 19	Paterson 3 NJ 17-19-20-23-29	Eclipse-Pioneer Div
Motors, AC	Borg Equip Div George W Borg Corp 120 S Main St Janesville Wisc 20-24-29	Bendix Aviation Corp Teterboro NJ 28-35-35 Edison Industries Thomas A Instrument
Motors, clock 21	Brach Mfg Corp	Div 93 Lakeside Ave W Orange NJ 28-35-39
Motors, control 22	200 Central Ave Newark 3 NJ 35	Eicor Inc
Motors, DC	Brailsford & Co 670 Milton Rd Rye NY 23-24	4235 W North Ave 1-9-12-17 Chicago 39 Ill 18-23-2
Motors, fractional hp 24	British Electronic Sales	Eisler Eng'g Co
Motors, hysteresis	Box 132 Oakland Gardens 64 NY 37 B/W Controller Corp	750 S 13 St Newark 3 NJ 3 Electomic Mechanisms Inc
Motors, miniature 26	2200 E Maple Birmingham Mich 36	PO Box 1156 Greenwich Conn 35
Motors, phonograph 27	Camera Equipment Co	Electrical Communications Inc
Motors, servo	315 W 43 St New York 36 NY 29 Carter Motor Co	765 Clementina St San Francisco 3 Calif
Motors, timing	2711 W George St Chicago 18 Ill 1-9-12-17	Electrical Eng'g & Mfg Corp
Motors, turntable 31	Caterpillar Tractor Co	4612 W Jefferson Blvd Los Angeles 16 Calif 20-23-23
Motors, universal 32	Peoria III 13-14-16-17-33 Cavitron Electron Oscillator Co	Electrical Products Research &
Power plants 33	Div Short Wave Plastic Forming	Development Co
Rotors 34	355 N Newport Blvd Newport Beach Calif 19	1206 Cherry St Toledo 4 Ohio 17 Electrical Specialty Co
Servos 35	Cedar Eng'g Inc 5806 W 36 St Minneapolis 16 Minn 16-28-35	158 11 St San Francisco 3 Calif 4-39
Starters 36	CELCO Constantine Eng'g Labs Co	Electric Indicator Co
<b>Stators</b> 37	PO Box 555 Mahwah NJ 24-25-26-28 Century Electric Co	Camp Ave 16-17-20-22-23-24-25- Stamford Conn 26-27-28-29-31-32
Synchros 38	1806 Pine St St Louis 3 Mo 20-23-24	Electric Machinery Mfg Co
Wedges, woodslot 39	CG Electronics Corp 305 Dallas St NE	800 Central Ave Minncapolis 13 Minn 1-8-16-17-29-29
Accurate Electronics Corp 169 S Abbe Rd W Elyria Ohio 3-10	Albuquerque New Mex 19	Electric Motors & Specialties
Advanced Products Co	CGS Laboratories Inc	King & Hampsher St Garrett Ind 1-24 Electric Regulator Corp
59 Broadway North Haven Conn 20-26-29-30	391 Ludlow St Stamford Conn 8 Channel Master Corp	Pearl St Norwalk Conn
Advance Instrument Corp 1709 F St Belmar NJ 35	Ellenville NY 34	Electric Specialty Co
ir Controls Inc	Cinema-Television Ltd	211 South St 12-16-17-19 Stamford 1 Conn 20-23-24-25-28
2310 Superior Ave Cleveland 14 Ohio 15 AiResearch Mfg Co Div Garrett Corp	Worsley Bridge Rd Lower Sydenham London SE 26 England 33	Electric Trading Co
9851 Sepulveda Blvd 17-23-24	Clarage Fan Co	313 Canal St New York 13 NY 2-15 Electro-Devices Inc
Los Angeles 45 Calif 26-28-35 Airflyte Electronics Co	Kalamazoo Mich 15 Clark Controller Co	4 Godwin Ave Paterson 1 NJ 8
535 Avenue A Bayonne NJ 4	1146 E 152 St Cleveland 10 Ohio 8-36	Electro-Mechanical Div General Riveters, Inc 785 Hertel Ave Buffalo 7 NY 5
ir-Marine Motors Inc 369 Bayview Ave 2-20-22-24-25	Clevite Harris Products Inc 6545 Carnegie Ave Cleveland 3 Ohio 10	Electro-Miniatures Corp
Amityville NY 26-28-29-31-38	Clifton Precision Products Co	1060 Elm Ave Ridgefield NJ 6 Electronic Control Systems
allard Instrument Corp 146 E 2 St Mineola LI NY 23-24	Marple at Broadway	2136 Westwood Blvd
llen-Bradley Co	Clifton Heights Pa 23-28-29-38 Collectron Corp	Los Angeles 25 Calif 35 Electrosolids Corp
136 W Greenfield Ave Milwaukee 4 Wis 8-36 Ulliance Mfg Co	216 E 45 St New York 17 NY 6	7486 Varna Ave N Hollywood Calif 12
Lake Park Blvd 15-20-22-23	Colorado Research Corp 4697 E Evans Ave Denver 22 Colo 35	Elektro Serv Co 480 Johnson Ave Brooklyn 37 NY 6
Alliance Ohio 24-26-27-30-31	Columbia Electric Mfg Co	Electro Tec Corp
.llis-Chalmers Mfg Co Milwaukee 1 Wisc 8-9-20-23-29	4519 Hamilton Ave Cleveland 14 Ohio 16-17	4 Romanelli Ave S Hackensack NJ 6
Ilis Co Louis	Communication Measurements Lab 350 Leland Ave Plainfield NJ 16	El Products Corp P O Box 41 New York 63 NY 21-23-26-30
427 E Stewart St 1-8-16-17 Milwaukee 1 Wisc 20-23-29-34-37	Conn Telephone & Electric Corp	Enflo Corp
loe Scientific	70 Brittania St Meriden Conn 18-24 Consolidated Avionics Corp	Rte 38 at Airport Circle Pennsauken 11 NJ 10-11-13
5655 Kingsbury Blvd St Louis 12 Mo 4	66 Brooklyn Ave Westbury NY 19-35	Engineering Associates
855 Commercial St Palo Alto Calif 35	Consumer Industrial Products 20-23-24-	434 Patterson Rd Dayton 9 Ohio 19
merican Air Filter Co	PO Box 128 Cuyahoga Falls Ohio 27-32 Continental Electric Co	Erdco Eng'g Corp Official & Westgate Addison III 19
215 Central Ave Louisville 8 Ky 15 merican Electronics Inc	325 Ferry St 1-12-16-17-19-	Ernst & Affiliates W Arthur
655 W Washington Blvd	Newark 5 NJ 20-23-29-33 Cornelius Co	825 Hayes Ave 16-17-18-19-20-22-23 Racine Wisc 24-25-26-28-29-31-32
Los Angeles 15 Calif 5-17-23-28-29-38 merican Electronics Inc	550 39 Ave NE Minneapolis 21 Minn 20-23	Essex Wire Corp
Instrument Div 9503 W Jefferson	Cornell-Dubilier Electric Corp	1601 Wall St Ft Wayne 6 Ind 36 Exact Eng'g & Mfg Inc
Blvd Culver City Calif 16-20-22-26-28-35-38 merican Gyro Corp	333 Hamilton Blvd S Plainfield NJ	P O Box 668 Oceanside Calif 35
3030 Nebraska Ave	Cramer Controls Corp	Fairchild Electrical Products Div 110 Main St 20-22-23-24-25
Santa Monica Calif 20-23-28	Centerbrook Conn 23-29-30	Burlington Vt 28-29-31-32
merican Rectifier Corp 95 Lafayette St New York 13 NY 8	Cutler-Hammer Inc 315 N 12 St Milwaukee 1 Wisc 8	Farrand Controls Inc
mglo Corp	Dalmotor Co Div Dalmo Fictor Co	4401 Bronx Blvd New York 70 NY 38 Feedback Controls Inc
4333 Ravenswood Ave Chicago 13 Ill 23-26-30 mplex Div Chrysler Corp	Div Textron Inc 1375 Clay St 12-16-17-20-23-24-	899 Main St Waltham 54 Mass 35
PO Box 2718 Detroit 31 Mich 6	Santa Clara Calif 25-26-28-29-32	FluiDyne Eng'g Corp 425 N 7 St Minneapolis 6 Minn 8
nalogue Controls Inc 39 Roselle St Mineola NY 35	Dalmo Victor Co Div Textron Inc	425 N 7 St Minneapolis 6 Minn 8 Forbes & Wagner Inc
rma Div American Bosch Arm Corp	1515 Industrial Way Belmont Calif 35	343 Central Ave Silver Creek NY 5
Garden City NY 35	Damon Recording Studios 117 W 14 St Kansas City 5 Mo 29-31	Ford Instrument Co Div Sperry Rand Corp
rrow-Hart & Hegeman Electric Co 103 Hawthorn St Hartford 3 Conn 8-22	D & R Ltd	31-10 Thomson Ave Long Island City 1 NY 28-35-38
rvin Industries Inc Columbus Ind 15	402 E Gutierree St Santa Barbara Calif 1-9	Furnas Electric Co
skania Regulator Co 240 E Ontario St Chicago 11 Ill 30-35	Darco Industries Inc Gyro Dynamics Div 2151 E Rosecrans Ave	1000 McKee St Batavia III 8-36
ssembly Products Inc	El Segundo Calif 20-23-25	Garrett Corp AiResearch Mfg Co Div 9851 Sepulveda Blvd 8-17-23-24
Wilson Mills Rd Chesterland 1 Ohio 8 arber-Colman Co	Datran Electronics 3615 Aviation Blvd	Los Angeles 45 Calif 26-28-35
Rock St Rockford Ill 20-23-24-27-28-29-31	Manhattan Beach Calif 35	General Components Inc 225 E 144 St Bronx 51 NY 10
	00	

General Controls Co	Jack Scientific Instrument Co	Minn-Honeywell Regulator Co Ordnance Div
801 Allen Ave Glendale 1 Calif 24-26	Bill 143 Cedros St Solana Beach Calif 9-17-20-23-24-28	Honking Minn
General Crystal Co P O Box 9 Burlington Wisc 16	Janette Electric Mfg Co 8350 Lehigh Ave Morton Grove Ill 22	Minneapolis-Honeywell Regulator Co Industrial Div
General Devices Inc P O Box 253 Princeton NJ 6	Jan Hardware Mfg Co	Wayne & Windrim Aves
General Electric Co Apparatus Sales Div	75 N 11 St Brooklyn 11 NY 10-11	Madam Industries Inc
1 River Road 8-9-12-24-27 Schenectary 5 NY 28-29-30-31	Jeffrey Mfg Co 803 N 4 St Columbus 16 Ohio	2601 Colorado Ave Santa Monica Calif 8
General Findings & Supply Co	Johnson Co E F Waseca Minn 10-11 Joy Mfg Co	Moog Valve Co Proner Airport E Aurora NY 35
Industrial Div Leach & Garner Bldg Attleboro Mass 7	333 Oliver Bldg Pittsburgh 22 Pa 2-15	Management Tro
General Industries Co 23-24-26-	J-V-M Eng'g Co 4633 S Lawndale Ave Lyons III 19	Manalay Co. F. I.
Olive & Taylor Sts Elyria Ohio 27-31 General RF Fittings Inc	Kahlenberg Bros	409 N Fair Oaks Ave Pasadena Cani
702 Beacon St Boston 15 Mass 11	1700 13 St Two Rivers Wisc 13 Kato Eng'g Co	Motiograph Inc 4441 W Lake St Chicago 24 III 17
Gibson Electric Co 8317 Frankstown Ave Pittsburgh 21 Pa 7	1415 1 Ave 9-16-17-19	Motordyne Inc
Gleason-Avery Inc 45 Aurelius Ave Auburn NY 20-24-29	Katolight Corp	2661 S Myrtle Ave Monrovia Calif 20-23-24-32
Globe Industries Inc	Box 891 Mankato Minn 9-16-17-19-20-23-33	Motoresearch Co
1784 Stanley Ave 2-16-20-22-23-24 Dayton 4 Ohio 25-26-28-29-30	Katolight Corp 1415 1 Ave 9-16-17-19	1600 Junction Ave Racine Wisc 1-8-16-17-19-20-24
G-M Laboratories Inc	Mankato Minn 20-23-29-33 Keystone Carbon Co	Muirhead & Co Ltd Beckenham
4300 N Knox Ave Chicago 41 Ill 28-35 Graphite Metallizing Corp	1935 State St St Marys Pa	Ment England Mairhand Instruments Inc
1002 Nepperhan Ave Yonkers NY 4-7	Keystone Electronics Corp 423 Broome St New York 13 NY 10	677 5 Ave
Great Lakes Electric Mfg Co 17 S Desplaines St Chicago 6 III 1-9-16-17	King-Seeley Corp Signal Electric Div	Mussley Corp of America
Greenleaf Mfg Co Div Mandrel Industries	Menominee Mich 15 Kollsman Instrument Corp Sub	125 Clifton Blvd Clifton NJ
7814 Maplewood Industrial Ct St Louis 17 Mo 35	Standard Coil Products 80-08	National Aircraft Corp 3411 Tulare Ave Burbank Calif
Gries Reproducer Corp 125 Beechwood Ave New Rochelle NY 3	45 Ave Elmhurst 73 NY 26-28-29-38 Kooltronic Fan Co	National Carbon Co Div Union Carbide & Carbon
Guild Electronics Inc	Carter Rd at Rosedale Princeton NJ 15	30 E 42 St New York 17 NY
388 Broadway New York 13 NY 19 Hallamore Electronics Co	Koppers Co Koppers Bldg Pittsburgh 19 Pa 10	National Company Inc 61 Sherman St Malden 48 Mass 10-11
8352 Brookhurst Ave Anaheim Calif 35	Kroker Eng'g & Devel Co	Nemeth Inc
Hansen Mfg Co RR 1 Princeton Ind 21-23-26-29-30	3022 N 77 Ct Elmwood Park 35 Ill 9-23-24-26	2223 S Carmelina Ave Los Angeles 64 Calif 22-25-28-30
Hanson-Gorrill-Brian	Kupfrian Mfg Corp 395 State St Binghamton NY 16	LOS Angeles of Cam
85 Hazel St Glen Cove NY 8 Harnischfeger Corp	Laminations Co	177 E Hawthorne Ave Valley Stream N 1 3
Crystal Lake Ill 13-16	300 Main St Stamford Conn 34-37 Lamtex Industries Inc	New Rochelle Tool Corp 320 Main St New Rochelle NY 19
Harwood Electronics Co 466 W Superior St. Chicago 10 Ill 10	51 State St Westbury NY 6	Norden-Ketay Corp
Hartman Electrical Mfg Co	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY 9	Commerce Rd Stamford Conn 16-26-28-29-35-38
175 N Diamond St Mansfield Ohio 8 Haydon Co A W	LaPointe Industries Inc	Ohio Carbon Co 12508 Berea Rd Cleveland 11 Ohio 4-7
232 N Elm St Waterbury 20 Conn 8-20-22-23-25-26-29-30	Leach Corp Inet-Palmer Div	Ohio Cyankahaft Co Tocco Div
Haydon Mfg Co	4441 S Santa Fe Ave 8-9-16 Los Angeles 58 Calif 17-19-29	3800 Harvard Ave Cleveland 5 Ohio Ohmite Mfg Co
245 E Elm St 20-21-22-23 Torrington Conn 25-26-29-80	Lear Inc 1-8-9-16-17	3601 Howard St Skokie III
77 . 37 11 73 . 0	3171 S Bundy Drive 20-22-23-24 Santa Monica Calif 25-26-28-29-35-38	Onan & Sons D W 2515 University Ave SE
1906 N Cicero Ave 12-17-18-20 Chicago 39 Ill 22-23-24-28-32	Leland Electric Co Div American	Minneapolis 14 Minn
Heinze Electric Co Div Consolidated	Machine & Foundry Co	Oster Mfg Co John 1 Main St 1-2-16-17-20-22-23-24-25-
Electric Lamp 685 Lawrence St Lowell Mass 2-20-23-24-26	1501 Webster St Dayton 1 Ohio 16-17-19-20-23-24	Racine Wisc 26-28-29-30-32-35-38
Helwig Co	Lincoln Electric Co 22801 St Clair Ave	Par Products Corp 602 Colorado Ave Santa Monica Calif 26-32
2544 N 30 St Milwaukee 10 Wis 4 Hickock Electrical Instrument Co	Cleveland 17 Ohio 20	Peerless Electric Co
10514 Dupont Ave Cleveland 8 Ohio 19	Lindberg Eng'g Co 2450 W Hubbard St Chicago 12 Ill 19	1401 W Market St Warren Ohio 2-20-23-29
Hirschman-Pohle Co 120 Lent Ave Leroy NY 15	Link Aviation Inc Binghamton NY 35	Pagagua Loba Inc
Hobart Bros Hobart Square E Troy 3 Ohio 1-16-17-19	Link-Belt Co Prudential Plaza Chicago 1 Ill 10-11	3690 W 11 Mile Rd Berkley Mich Pioneer Gen-E-Motor Corp
Holtzer Cabot Div Nat'l 1-12-16-17-18	Litton Industries of Calif	5841 W Dickens Ave
Pneumatic Co 125 Amory St 22-23-24-25-26 Boston 19 Mass 28-29-30-34-37	Litton Industries of Md Inc	Dique Mechine & Mfg Co
Homelite Div Textron Inc	4910 Calvert Rd College Park Md 35	441 S College St Piqua Ohio 20-23-24
67 Riverdale Ave Port Chester NY 1-16-17-33	Lord Mfg Co 1635 W 12 St Erie 6 Pa 10	PMIndustries Inc Instrument Motors Div 460 North Ave 16-17-20-22-23
Howard Industries Inc 16-17-18-20-23-	L & R Mfg Co 577 Elm St Arlington NJ 24	New Rochelle NY 25-26-28-29-32
1760 State St Racine Wisc 24-25-26-28-29-32	Lux Clock Mfg Co	Poly-Scientific Corp Blacksburg Va 4-6
Howell Electric Motors Co 409 N Roosevelt Howell Mich 20-22-24	Johnson St Waterbury Conn 29-30 Lytle Eng'g & Mfg Co	Potter & Brumfield Inc
Hunter Spring Co 1 Spring Ave Lansdale Pa 21	1404 San Mateo Blvd SE 21-22	1200 E Broadway Princeton Ind P S P Eng'g Co Div Induction Motors
Hupp Electronics Co Div Hupp Corp	Albuquerque New Mexico 28-29-30 McDowell Electronics Inc	8608 Otis St South Gate Calif
743 Circle Ave Forest Park III 23-24 Ideal Electric & Mfg Co	105 Forrest St Metuchen N.J 19	Rae Motor Corp 2009 Kewaunee St
300 E 1 St Mansfield Ohio 8-19-20-23-29	Mack Electronics Div Mack Trucks Inc 40 Leon St Boston 15 Mass 35	Racine Wisc 21-22-23-32
Ilg Electric Ventilating Co 2850 N Pulaski Rd Chicago 41 Ill 15	Magnetic Amplifiers Inc	Rea Co J B 1723 Cloverfield Blvd 20-22-23-24-
Induction Heating Corp	632 Tinton Ave New York 55 NY 8-35 Magnetic Research Corp	Santa Monica Calif 25-26-28-29-30
181 Wythe Ave Brooklyn 11 NY 19 Induction Motors Corp	3160 W El Segundo Blvd	Ready Power Co 11231 Freud Ave
570 Main St	Hawthorne Calif Mallory & Co Inc P R	Detroit 14 Mich 16-17-18-33
Westbury LI NY 12-23-24-25-28-29-31-38 Industrial Research Labs Div Aeronca	42 S Gray St Indianapolis 6 Ind	Redmond Co
Mfg Corp Hilltop & Frederick Rds	Marble-Card Electric Corp Gladstone Mich	Owosso Mich Reed & Reese Inc
Baltimore 28 Md 35 Industrial Test Equipment Co	Marvel-Schebler Products Div Borg-Warner Corp Box 863 Decatur Ill 35	717 N Lake Ave Pasadena 6 Calif 20-23-28
55 E 11 St New York 3 NY 16-35 Infra Electronic Corp	Master Appliance Mfg Co	Reeve Electronics Inc
47 Factory Pl	530 4 St Racine Wisc 15-20-23-24-32	609 W Lake St Chicago 6 III 19
Cedar Grove NJ 23-24-26-27-31 Instrument Development Labs Inc	Master Electric Co 126 Davis Ave	Reeves Instrument Corp 215 E 91 St New York 28 NY 35
67 Mechanic St Attleboro Mass 6-9	Dayton 1 Ohio 16-17-20-23-24-29	Reflectone Corp Boston Post Rd Stamford Conn 10
	Malnay Inc	
Insulation Mfrs Corp	Melpar Inc 3000 Arlington Blvd Falls Church Va 35	DOSLOII I USE ILU DERIIIOI U COIII
Insulation Mfrs Corp 565 W Washington Blvd Chicago 39 Ill 39 Insuline Corp of America	3000 Arlington Blvd Falls Church Va 35 Merkle Korff Gear Co	Reliance Electric and Eng'g Co 24701 Euclid Ave
Insulation Mfrs Corp 565 W Washington Blvd Chicago 39 III 39 Insuline Corp of America 186 Granite St Manchester NH 11 Intelex Systems Inc	3000 Arlington Blvd Falls Church Va 35 Merkle Korff Gear Co 213 N Morgan St Chicago 7 Ill 21-24-29-30	Reliance Electric and Eng'g Co 24701 Euclid Ave Cleveland 17 Ohio 8-16-17-20-23-29
Insulation Mfrs Corp 565 W Washington Blvd Chicago 39 Ill 39 Insuline Corp of America 186 Granite St Manchester NH 11 Intelex Systems Inc 22 Thames St New York 6 NY 20-24-29-32	3000 Arlington Blvd Falls Church Va 35 Merkle Korff Gear Co 213 N Morgan St Chicago 7 Ill 21-24-29-30 Metzner Eng'g Corp	Reliance Electric and Eng'g Co 24701 Euclid Ave Cleveland 17 Ohio 8-16-17-20-23-29 Remington Rand Univac Div Sperry Rand Corp
Insulation Mfrs Corp 565 W Washington Blvd Chicago 39 Ill 39 Insuline Corp of America 186 Granite St Manchester NH 11 Intelex Systems Inc 22 Thames St New York 6 NY 20-24-29-32 International Eng'g Inc	3000 Arlington Blvd Falls Church Va 35 Merkle Korff Gear Co 213 N Morgan St Chicago 7 Ill 21-24-29-30 Metzner Eng'g Corp 1041 N Sycamore Ave Hollywood 38 Calif 27-31	Reliance Electric and Eng'g Co 24701 Euclid Ave Cleveland 17 Ohio Remington Rand Univac Div Sperry Rand Corp 315 4 Ave New York 10 NY 35
Insulation Mfrs Corp 565 W Washington Blvd Chicago 39 Ill 39 Insuline Corp of America 186 Granite St Manchester NH 11 Intelex Systems Inc 22 Thames St New York 6 NY 20-24-29-32 International Eng'g Inc 1145 Bolander Ave Dayton 1 Ohio 15 International Register Co	3000 Arlington Blvd Falls Church Va 35 Merkle Korff Gear Co 213 N Morgan St Chicago 7 Ill 21-24-29-30 Metzner Eng's Corp 1041 N Sycamore Ave Hollywood 38 Calif 27-31 Midwestern Instruments	Reliance Electric and Eng'g Co 24701 Euclid Ave Cleveland 17 Ohio Remington Rand Univac Div Sperry Rand Corp 315 4 Ave New York 10 NY 35 Rembrandt Inc 98 Kirkland St Cambridge 38 Mass 10
Insulation Mfrs Corp 565 W Washington Blvd Chicago 39 III 39 Insuline Corp of America 186 Granite St Manchester NH 11 Intelex Systems Inc 22 Thames St New York 6 NY 20-24-29-32 International Eng'g Inc 1145 Bolander Ave Dayton 1 Ohio 15	3000 Arlington Blvd Falls Church Va 35 Merkle Korff Gear Co 213 N Morgan St Chicago 7 III 21-24-29-30 Metzner Eng'g Corp 1041 N Sycamore Ave Hollywood 38 Calif 27-31 Midwestern Instruments PO Box 7186 Tulsa Okla 35 Milgo Electronic Corp	Reliance Electric and Eng's Co 24701 Euclid Ave Cleveland 17 Ohio 8-16-17-20-23-29 Reminston Rand Univac Div Sperry Rand Corp 315 4 Ave New York 10 NY 35 Rembrandt Inc 98 Kirkland St Cambridge 38 Mass 10 Revnolds Electric Co
Insulation Mfrs Corp 565 W Washington Blvd Chicago 39 Ill 39 Insuline Corp of America 186 Granite St Manchester NH 11 Intelex Systems Inc 22 Thames St New York 6 NY 20-24-29-32 International Eng'g Inc 1145 Bolander Ave Dayton 1 Ohio 15 International Register Co 2620 W Washington Blvd	3000 Arlington Blvd Falls Church Va 35 Merkle Korff Gear Co 213 N Morgan St Chicago 7 Ill 21-24-29-30 Metzner Eng'g Corp 1041 N Sycamore Ave Hollywood 38 Calif 27-31 Midwestern Instruments PO Box 7186 Tulsa Okla 35	Reliance Electric and Eng'g Co 24701 Euclid Ave Cleveland 17 Ohio 8-16-17-20-23-29 Remington Rand Univac Div Sperry Rand Corp 315 4 Ave New York 10 NY 35 Rembrandt Inc 98 Kirkland St Cambridge 38 Mass 10 Payrolds Electric Co

Robbins & Myers Inc 1345 Lagonda Ave	U S Gauge Div American Machine & Metals Sellersville Pa 38	Bendix Aviation Corp Bendix Radio Div East Joppa Rd Towson 4 Md 1-4-8-
Springfield Ohio 1-15-20-23-24-32 Robinette Co W C	U S Graphite Co Div Wickes Corp 1621 Holland Ave Saginaw Mich 4	Bendix Aviation Corp Pacific Div 1600 Sherman Way N Hollywood Calif 5-
802 Fair Oaks Ave S Pasadena Calif 35	U S Instrument Corp	Brubaker Electronics Inc
Rotating Components Inc 267 Green St 1-2-15-16-20-22-	P O Box 33E Charlottesville Va 18 Varo Mfg Co	3652 Eastham Dr Culver City Calif Burroughs Corp
Brooklyn 22 NY 24-25-26-28-29-81 Rotron Mfg Co	2201 Walnut St Garland Texas 8 VecTrol Eng'g Inc	6071 2 Ave Detroit 32 Mich Canadian Aviation Electronics Ltd
Schoonmaker Lane Woodstock NY 2-15	P O Box 1089 Stamford Conn 8	6214 Cote de Liesse Rd
Rubbercraft Corp of Calif 1800 W 220 St Torrance Calif	Vocaline Co of America Old Saybrook Conn 21-29-30	St Laurent Quebec Canada 7-5 Chesapeake Instrument Corp
St Marys Carbon Co	WacLine Inc 35 S St Clair St	Shadyside Md 1
State St St Marys Pa Sanders Associates	Dayton 2 Ohio 1-8-16-20-22-24-26-28-32-34	Chromatic Television Laboratories 1501 Broadway New York 36 NY
95 Canal St Nashua NH 2	Waco Inc 2032 Broadway	Collins Radio Co
Springfield III 23-25-26-20 20	Santa Monica Calif 20-23-24-26-27	855 35 St N E Cedar Rapids Iowa 1-2-7-9-18 Computing Devices of Canada Ltd
Schrack Electrical Sales Corp 45 W 81 St New York 24 NY 8	Wagner Co H A 14707 Keswick St Van Nuys Calif 26-35 Waldorf Instrument Co Div	P O Box 508 Ottawa Ontario Can Conrad & Moser
Scientific Coil Co 5619 Broadway	F C Huyck & Sons Park Ave 5-20-23-26	2 Borden Ave Long Island City 1 NY
Chicago 40 III 20-22-22-22	Huntington Station NY 28-30-35-38 Waltham Watch Co	Consolidated Avionics Corp 66 Brooklyn Ave Westbury NY
Loyd Scruggs Co PO Drawer 282 Festus Mo 20-23-24-82	221 Crescent St Waltham 54 Mass 28 Ward Leonard Electric Co	Corbin Corp 5419 56 Pl Riverdale Md 1-2-4-5-8-9-18
Seager Standard Carbon Co	Mt Vernon NY 8	Craig Systems Inc
291 Church St New York 13 NY 4-6 Servo Corp of America	Warren Corp J C 21 Hanse Ave Freeport NY 22-23-30	90 Holten St Danvers Mass C-Thru Ruler Co
2020 Jericho Turnpike New Hyde Park NY 35	Warren Mfg Co Newtown Rd Littletown Mass 8	827 Windsor St Hartford Conn Dalmo Victor Co Div Textron Inc
Servomechanisms Inc 12500 Aviation Blvd	Wesche Electric Co BA	1515 Industrial Way Belmont Calif 14
Hawthorne Calif 9_99_95 96 99 90 95	1622 Vine St Cincinnati 10 Ohio 20-22-23-24 West Coast Research Corp	Dayton Aviation Radio & Equipment Corp R R 3 Troy Ohio 1-5-8
Servonics Inc 822 N Henry St Alexandria Va 35	2371½ Westwood Blvd Los Angeles 64 Calif 8-35	Designers for Industry
Servo-Tek Products Co 1086 Goffle Rd	Western Gear Corp Electro Products Div	4241 Fulton Pkwy Cleveland 9 Ohio 8 Diamond Antenna & Microwave Corp
Hawthorne NJ 8-17-22-23-24-26-28 20 22 25	132 W Colorado St 16-17-20-23 Pasadena 1 Calif 24-25-26-29-32	7 North Ave Wakefield Mass 5-8 Eclipse-Pioneer Div Bendix Aviation Corp
A80 Morris And Commission of the State of th	Weston Electrical Instrument Corp Sub Daystrom Inc 614 Frelinghuysen Ave	Teterboro NJ 1
Shebbard Co R. H	Newark 12 NJ 16-17	Edo Corp 13-10 111 St College Point 56 LI NY 3-6-8-14
101 Philadelphia St Hanover Pa 13-33 Sigmadyne of Conn	Westinghouse Electric Corp P O Box 868 16-17-20-22-23	Ercona Corp 551 5 Ave New York 17 NY 3
P O Box 869 Port Chester NY Sittler Corp 18 N Ada St Chicago 7 Ill	Pittsburgh 30 Pa 25-29-30-38 Wiggins Oil Tool Co E B	Erco Radio Labs Inc
Skil Corp 5033 Elston Ave Chicago 30 Ill 2 Small Motors Inc	3424 E Olympic Blvd	637 Stewart Ave Garden City NY Fairchild Guided Missiles Div Fairchild
2076 Elston Ave 2-12-16-20-22-23	Los Angeles 23 Calif 10-11 Wincharger Corp	Engine & Airplane Corp Straght Path Wyandanch LI NY 8
Smith Inc Herman H 24-26-28-29-30-32	E 7 & Division St Sioux City 2 Iowa 1-9-12-16-17-20-23-33	Farrand Controls Inc
2326 Nostrand Ave Brooklyn 10 NY 10-11 Solar Aircraft Co	Winder Aircraft Corp of Florida	4401 Bronx Blvd New York 70 NY Federal Telephone & Radio Co Div IT&T
2200 Pacific Hwy San Diogo 12 Calif. an	P O Box 2397 Drane Field Lakeland Fla 18	100 Kingsland Rd Clifton NJ 1-4-5-7-8-9
Solartron Electronic Group Ltd Queens Rd Thames Ditton Surrey England  16-17	Winpower Mfg Co Newton Iowa 1-16-17 Woodwelding Inc	Ford Instrument Co Div Sperry Rand Corp 31-10 Thomson Ave Long Island City 1 NY 1
Specialties Inc	355 N Newport Blvd Newport Beach Calif 19	677 Beacon St. Boston 15 Mass 8 9 15
Skunks Misery Rd Syngget LI NV or	Zenith Electric Co	General Electric Co Light Military Elec-
Spectralab Instruments 404 N Halstead Ave Pasadena Calif 19	152 W Walton St Chicago 10 Ill 8	tronic Equip Dept French Rd Utica NY 8 Hallamore Electronics Co
Great Neck NV	64—NAVIGATION SYSTEMS	8352 Brookhurst Ave Anaheim Calif 8-15 Harris Transducer Corp
Stackpole Carbon Co St Marys Pa 4 Stancil-Hoffman Corp	Aircraft landing 1	Woodbury Conn 14
921 N Highland Ave Hollywood 20 C-1:6 or	Calling systems, selective 2	Hastings-Raydist Inc Newcomb Ave Hampton Va  10
2085 N Hawthorns Ave Melana Day VIII	Depth sounders	Hoffman Electronics Corp 3761 S Hill St Los Angeles 7 Calif 8-14
Haddon Ave W Borlin N.I	Distance measuring equipment 5	Hoover Electronics Co
Star-Kimble Motor Div	Loran <u>6</u>	3640 Woodland Ave Baltimore 7 Md International Research Associates
Miehle Printing Press & Mfg Co 200 Bloomfield Ave	Omnirange 7	2221 Warwick Ave Santa Monica Calif 9 I-T-E Circuit Breaker Co Special Products
Bloomfield NJ 16-17-19-20-23 Sterling Electric Motors Inc	Radar	Div 601 E Erie Ave Philadelphia 34 Pa 8 International Business Machines Corp
5401 Telegraph Rd	Raydist10	by Madison Ave New York 23 NY 4
Taller & Cooper 75 Front St Brooklyn 1 NV 04	Sea rescue	Interstate Electronics Corp 875 S East St Anaheim Calif 15
Technical Electronics Corn	Shoran 12	Jarvis Electronics Corp 1140 Cherry St Winnetka Ill 4-9
4060 Ince Blvd Culver City Calif 25-29 Technical Ply-Woods Sales	Sofar	J-V-M Eng'g Co
0700 Crandon Ave Chicago 40 111 20	Transponders	4633 S Lawndale Ave Lyons III 8 Kemlite Labs Inc
Technicraft Labs Inc Thomaston-Waterbury Rd	Advance Industries Inc	1819 W Grand Ave Chicago 22 III Kollsman Instrument Corp Sub Standard
Tele-Dynamics Inc	640 Memorial Dr Cambridge 39 Mass 1-8-9-15 Aircraft Radio Corp	Con Products
32 & Walnut Sts Philadelphia 4 Pa 6-12 Telkor Inc	Boonton NJ 4-9	80-08 45 Ave Elmhurst 73 NY 4 Land-Air Inc Instrument & Electronic Div
N Murray Ridge Rd Elvria Ohio 16.22	Alcar Instruments Inc 17 Industrial Ave Little Ferry NJ 14	2133 Adams Ave San Leandro Calif 1 Lavoie Labs Inc
72 N 2 Amer D 10	Alford Mfg Co 299 Atlantic Ave Boston 10 Mass 7	Matawan-Freehold Rd Morganville N.I 7-8
Thomas & Skinner Inc	Amerac Inc	3171 S Bundy Drive
1120 E 23 St Indianapolis 7 Ind 34-37 Thompson Products Inc Electronics Div	116 Topsfield Rd Wenham Mass 1-8 American Machine & Foundry Co	Santa Monica Calif Litton Industries of Calif
Times Facsimile Corp.	Electronics Div 1085 Commonwealth Ave	336 N Foothill Rd
540 W 58 St New York 19 NY 29-30 Tipptronic Inc	Boston 15 Mass 5-15	Loral Electronics Corn
4 & Franklin Sts Tinn City Ohio e	American Machine & Foundry Co Defense Products Group	749 E 140 St New York 54 NY Mack Electronics Div Inc
TKM Electric Corp 1160 University Ave	1101 N Royal St	Sub Mack Trucks Inc
Rochester 7 NY Toledo Commutator Co Communication 16-17-19	Arma Div American Bosch Arma Corp	Martlab Co
Topp Industries Inc		249 Haverford Ave Swarthmore Pa 1
	Garden City NY 1-8 Avco Manufacturing Corp Crosley Div	Maryland Electronic Mfg Corn
5255 W 102 St Los Angeles 45 Calif 35 Transicoil Corp	Avco Manufacturing Corp Crosley Div 1329 Arlington St Cincinnati 25 Ohio 1	5009 Calvert Rd College Park Md 7-9
Worcester Pa 16-22-28-38	Avoo Manufacturing Corp Crosley Div 1329 Arlington St Cincinnati 25 Ohio 1 Avion Div ACF Industries Inc 11 Park Pl Paramus NJ 1-8-9-15	5009 Calvert Rd College Park Md 7-9 Massa Laboratories Inc 5 Fottler Rd Hingham Mass 14
Transicoll Corp Worcester Pa 16-22-28-38 Universal Electric Co 300 E Main St	Avco Manufacturing Corp Crosley Div 1329 Arlington St Cincinnati 25 Ohio 1 Avion Div ACF Industries Inc 11 Park Pl Paramus NJ 1-8-9-15 Bell Aircraft Corp	5009 Calvert Rd College Park Md 7-9 Massa Laboratories Inc 5 Fottler Rd Hingham Mass Maxson Corp W L 475 10 Ave New York 18 NV
Worcester Pa 16-22-28-38 Universal Electric Co	Avon Manufacturing Corp Crosley Div 1329 Arlington St Cincinnati 25 Ohio 1 Avion Div ACF Industries Inc 11 Park Pl Paramus NJ 1-8-9-15 Bell Aircraft Corp P O Box 1 Buffalo 5 NY 1-3-4-5-7-8-9-15 Bell & Gossett Co	Maryland Electronic Mfg Corp 5009 Calvert Rd College Park Md 7-9 Massa Laboratories Inc 5 Fottler Rd Hingham Mass 14 Maxson Corp W L 475 10 Ave New York 18 NY Missileonics Inc P O Box 716 Melbourne Fla 8 Moran Instrument Corp
Transicoll Corp Worcester Pa 16-22-28-38 Universal Electric Co 300 E Main St Owosso Mich 20-23-24-27-32 Uniwave Inc 2 Marine St Farmingdale NY 11-34	Avoo Manufacturing Corp Crosley Div 1329 Arlington St Cincinnati 25 Ohio 1 Avion Div ACF Industries Inc 11 Park Pl Paramus NJ 1-8-9-15 Bell Aircraft Corp P O Box 1 Buffalo 5 NY 1-3-4-5-7-8-9-15 Bell & Gossett Co 8200 Austin Ave Morton Grove Ill 2 Belock Instrument Corp	Maryland Electronic Mfg Corp 5009 Calvert Rd College Park Md 7-9 Massa Laboratories Inc 5 Fottler Rd Hingham Mass 14 Maxson Corp W L 475 10 Ave New York 18 NY 8 Missileonics Inc P O Box 716 Melbourne Fla 8 Moran Instrument Corp 170 E Orange Grove Ave
Transicoli Corp Worcester Pa 16-22-28-38 Universal Electric Co 300 E Main St Owosso Mich 20-23-24-27-32 Universal Electric Co 300 E Main St Owosso Mich 20-23-24-27-32	Avco Manufacturing Corp Crosley Div 1329 Arlington St Cincinnati 25 Ohio 1 Avion Div ACF Industries Inc 11 Park Pl Paramus NJ 1-8-9-15 Bell Aircraft Corp P O Box 1 Buffalo 5 NY 1-3-4-5-7-8-9-15 Bell & Gossett Co 8200 Austin Ave Morton Grove Ill 2	Maryland Electronic Mfg Corp 5009 Calvert Rd College Park Md 7-9 Massa Laboratories Inc 5 Fottler Rd Hingham Mass 14 Maxson Corp W L 475 10 Ave New York 18 NY 8 Missileonics Inc P O Box 716 Melbourne Fla 8 Moran Instrument Corp

		D ( C)
Nemeth Inc	Meters, nuclear radiation 21	Computing Devices of Canada Ltd P O Box 508 Ottawa Ontario Can 3
2223 S Carmelina Ave	Processors, catalytic flow rate 22	Consolidated Electrodynamics Corp
Nevada Air Products Co	Radioactive stak	300 N Sierra Madre Villa Pasadena Calif
P O Box 2472 Reno Nev 9-15 Norden-Ketay Corp	Sealers	Controlled Atmosphere Enclosures Corp
Commerce Rd Stamford Conn 8	Shielding, radiation 26	230-11 141 Ave Springfield Gardens 13 LI NY 4-7-26
Olympic Radio & TV 34-01 38 Ave Long Island City 1 NY 4-9	Spectrometers	Cook Electric Co 2700 Southport Ave Chicago 14 Ill 7-15-16-26
Otic Elevator Co Electronic Div	Tubes, gamma ray 28	Cosmic Radiation Labs
35 Ryerson St Brooklyn 5 NY 4-8 Packard Bell Electronics Corp	Tubes, geiger counter 29	247 Blue Point Ave Blue Point LI NY 3-9-10-11-13-14-19
12333 W Olympic Blvd Los Angeles 64 Calif 5-15	Tubes, scintillation 30	Crystalx-Westlake Corp
Palmer Inc M V	Abrams Instrument Corp	Lenni Rd Lenni Mills Pa Curtiss-Wright Corp Electronics Div
Production Research Corp	606 E Shiawassee St Lansing 1 Mich Advanced Instruments Inc	631 Central Ave Garlstadt NJ 8-17-19
Thornwood NY 3-4-5-15	21 Oakcrest Rd Needham 92 Mass 3-9-29	Dallons Labs 5066 Santa Monica Blvd
Pye Canada Ltd 82 Northline Rd	Airmec Ltd High Wycombe	Los Angeles 29 Calif Delta Chemical Works
Toronto 16 Ontario Canada 1-3-14 Pye Telecommunications Ltd	Buckinghamshire England 9-13-17-19-21	23 W 60 St New York 23 NY
Newmarket Rd	Alden Electronic & Impulse Recording Equip Co P O Box 125 Westboro Mass 17	Douglas Radio Labs 176 Norfolk Ave Boston 19 Mass 9-19
Cambridge England 1-2-3-4-5-7-9 Radiation Inc P O Box 37 Melbourne Fla 14	Allied Eng g & Production Corp 4-7-8-16- 2421 Blanding Ave Alameda Calif 18-25-26	Dudok & Co R C
Radio City Products Co Centre & Glendale Sts Easton Pa 4	Attiad Decinque Products Inc	407 N Maple Dr 7-8-9-10-11-12-13-14-15-16 Beverly Hills Calif 17-19-21-23-26-28-29-30
Radio Corp of America	Whitney Rd & Clark St Conneaut Onlo 20220	Dynamics Research Associates Div Universal Match Corp
Commercial Electronic Products Camden 2 NJ 9-14	5655 Kingsbury Blvd St Louis 12 Mo 21	P O Box 5841 Ferguson 21 Mo 8
Radio Receptor Co	Alpha Metals Inc 56 Water St Jersey City 4 NJ 25-26	Eastman Kodak Co 343 State St Rochester 4 NY 5-13-17-20
Raytheon Mfg Co	Ameray Corp	Eberline Instrument Div Reynolds Electrical
100 River St Waltham 54 Mass 3-8 Raytheon Mfg Co Commercial Equip Div	American Electronics Inc	Santa Fe N Mexico 15-16-17-21-25-26
100 River St Waltham 54 Mass 4-9	655 W Washington Blvd Los Angeles 15 Calif 2-4-5-7-10-22-27	Egan Lab 107-56 113 St Richmond Hill 19 NY 17
Scantlin Electronics Inc	American Machine & Foundry Co	Eldorado Electronics Co 1401 Middle Harbor Rd Oakland Calif
11624 W Pico Blvd Los Angeles 64 Calif 2 Seismograph Service Corp	Defense Products Group 1101 N Royal St 1-2-3-4-8-9-10-12-13-14-15-	Electrical & Physical Instrument Corp
6200 E 41 St Tulsa 1 Okla 5-9	Alexandria Va 16-17-18-19-20-21-22-23-24-20	42-19 27 St Long Island City 1 NY 9-16 Electronic Products Co
Servo Corp of America 2020 Jericho Turnpike	American-Standard Atomic Energy Div 1682 Broadway Redwood City Calif 8	111 E 3 St Mt Vernon NY 16-28-29
New Hyde Park NY	American Tradair Corp	Elgin National Watch Co 107 National St Elgin III 6-9
Servonics Inc 822 N Henry St Alexandria Va 9	Long Island City 6 NY 19-24-29-30	Elm Labs 10 Washington Ave
Simmonds Aerocessories Inc 105 White Plains Rd Tarrytown NY 11	Amperex Electronic Corp	Hastings-on-Hudson NY
105 White Plains Rd Tarrytown NY 11 Skiatron Electronics & TV Corp 180 Varick St New York 14 NY 1-4-5-7-8-14	Anton Electronic Labs 1-2-3-4-7-6-5-10-12-	El-Tronics Inc Penn Ave 3-7-9-10-13-14-16
Sanar Radio Corp	1226 Flushing Ave 13-14-16-17-19-21-23- Brooklyn 6 NY 24-25-26-28-29-30	Mayfield Pa 17-19-21-29-30 Fish-Schurman Corp
3050 W 21 St Brooklyn 24 NY Sperry Gyroscope Co. Div Sperry Rand Corp	Applied Radiation Corp 2404 N Main St Walnut Creek Calif 16	70 Portman Rd New Rochelle N1 29-40
Great Neck NY 4-5-0-6	Arma Div American Bosch Arma Corp	Ford Instrument Co Div Sperry Rand Corp 31-10 Thomson Ave Long Island City 1 NY 8
Stavid Eng'g Inc U S Route 22 Plainfield NJ 5-8-9-14-15	Garden City NY Askania Regulator Co	Forro Scientific Co 833 Lincoln St 1-3-9-10-12-13-14-16
Stewart Warner Electronics Div 1300 N Kostner Ave Chicago 51 Ill 1-5-15	240 E Ontario St Chicago 11 Ill 8-9	Evanston Ill 17-19-21-28-29
Sylvania Electric Products Inc	Assembly Products Inc Wilson Mills Rd Chesterland 1 Ohio 8-17-21	Franklin Electronics Inc Box 113 1-3-8-9-10-13-14
Telectro Industries Corp	Atomic Labs Inc	Bridgeport Pa 16-17-19-21-27
35-18 37 St Long Island City 1 NY 7 Telephonics Corp	3086 Claremont Ave Berkeley 5 Calif 9-16 Baird-Atomic Inc	Fretco Inc 406 N Craig St Pittsburgh 13 Pa 11-14-16
Park Ave Huntington LI NY 4-14	Baird-Atomic Inc 33 University Rd Cambridge 38 Mass Barker & Williamson Inc	Furane Plastics Inc 4516 Brazil St Los Angeles 32 Calif 25
Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas 8-14	Barker & Williamson Inc	Gardiner Electronics Co 2545 E Indian School Rd Phoenix Ariz 13-14
Topp Industries Inc 5255 W 102 St Los Angeles 45 Calif 9	Canal & Beaver Sts Bristol Pa Beckman Berkeley Div Beckman	General Electric Co X-Ray Dept
United Electrodynamics	Instruments Inc 2200 Wright Ave	4855 Electric Ave Milwaukee 1 Wisc 15-29 Greer Hydraulics Inc
1200 S Marengo Ave Pasadena Calif 15 Wagner Co H A	the Aristian Comp	NY Int'l Airmort Jamaica 30 NY
14707 Keswick St Van Nuys Calif 14 Waldorf Instrument Co Div F C Huyck &	1104 Fisher Bldg Detroit 2 Mich 8-13-17-20 Bendix Aviation Corp Cincinnati Div	Hagan Chemicals & Controls Inc Hagan Bldg Pittsburgh 30 Pa 8
Sons Park Ave Huntington Station NY 14	3130 Wasson Rd	Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif 14
Wells-Gardner & Co 2701 N Kildare Ave Chicago 39 Ill 8	Cincinnati 8 Ohio 13-17-20-21 Berger Communications	Hamner Electronics Co
West Coast Research Corp 2371½ Westwood Blvd	109-01 72 Rd Forrest Hills LI NY 2-3-4-6-9-10-12-17-19-25	Uuen Co Wm
Los Angeles 64 Calif 4-8-15	Berkeley Crystal Co	165 Silverbrook Ave Niles Mich 9-10-13-14 Harshaw Chemical Co
Westinghouse Electric Corp P O Box 868 Pittsburgh 30 Pa 8-9-15	1740 University Ave Berkeley 3 Calif 11-13-14	1945 E 97 St Cleveland 6 Ohio
White & Sons Wilfrid O 178 Atlantic Ave Boston 10 Mass 3-14	Beva Laboratory 1640 N Olden Ave	Hayward Scientific Glass Corp 217 N Magnofia Ave Whittier 1 Calif 4-25-26
Winder Aircraft Corp of Florida	Bios Labs Inc	Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif 19
P O Box 2397 Drane Field Lakeland Fla 5	17 W 60 St New York 23 NY B J Electronics Borg-Warner Corp	Hi Grade Alloy Corp 1236 S Talman Chicago 8 Ill 25-26
	3300 Newport Ave 1-3-8-9-10-13-14-	High Voltage Eng'g Corp
65-NUCLEAR PRODUCTS	Santa Ana Calif 16-17-19-20-21-27 Black Light Corp of America	Burlington Mass Hupp Electronics Co Div Hupp Corp
	5114 Walnut Grove Ave	743 Circle Ave Forest Park III 17
Analyzers, coincidence 1 Analyzers, neutron absorption . 2	San Gabriel Calif 9-10-16 Brooks & Perkins Inc	Hycon Mfg Co 707 S Raymond Ave Pasadena Calif 11
Analyzers, neutron absorption . 2 Analyzers, spectrum 3	1950 W Fort St Detroit 16 Mich 4	Intelex Systems Inc
Assemblies, shield 4	Cambridge Instrument Co Grand Central Terminal	Jeannet Corn
Badges, radiation 5	New York 17 NY 13-17-20 Canadian Aviation Electronics Ltd	118 Union St. Palisades Park NJ 11-14
Batteries, nuclear	6214 Cote de Liesse Rd	Isotope Products 1711 Elmwood Ave Buffalo 7 NY 15
Chambers, alpha	St Laurent Quebec Canada 10-14 Canadian Radium & Uranium Corp	Isotopes Specialties Co 703 S Main St 4-5-7-9-10-11-12-13-14-16-18
Counters, radiation 9	630 5 Ave New York 20 NY 23 Central Electronic Mfrs Inc Sub Nuclear	Burbank Calif 19-20-21-25-26-27-28-29-30
Counters, scintillation 10	Corp of America	Jan Hardware Mfg Co 75 N 11 St Brooklyn 11 NY
Crystals, scintillation	2 Richwood Pl Denville NJ 12 CG Electronics Corp	Jordan Electronics Inc Sub Panellit Inc
Detection systems, leak 12 Detectors, radiation 13	305 Dallas St N E Albuquerque New Mex 2-3-8-16-28	3025 W Mission Rd Alhambra Calif 13-16-20-21
Detectors, scintillation 14	Central Research Labs	Keithley Instruments Inc 12415 Euclid Ave Cleveland 6 Ohio 8-17
Equipment, food irradiation 15	Red Wing Minn 18 Chatham Electronics Div Gera Corp	Kelley & Co O G
Equipment, nuclear radiation 16	W Mt Pleasant Ave Livingston NJ 9-10-16	98 Taylor St Boston 22 Mass 4-8-15-16-18-25-26
Indicators, radiation	Chromium Corp of America P O Box 1229 Waterbury 20 Conn 16	Kemlite Labs Inc
Meters, counting rate	Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham	Kulite Tungsten Co
Meters, dosimeter 20	London S E 26 England 13-16-20	1040 Hoyt Ave Ridgefield NJ 25-26

550 W Garfield Ave	Califon NJ 5	5955 Sepulveda Blvd Van Nuys Calif
Glendale 4 Calif 7-9-13-17-20-21-28-29	Samples Machine Co A M	Central Electronic Mirs Inc
Leeds & Northrup Co 4970 Stenton Ave Philadelphia 44 Pa 8	208 Tazewell Pike Knoxville 18 Tenn 5-13-20	Sub Nuclear Corp of America 2 Richwood Pl Denville NJ
4970 Stenton Ave Philadelphia 44 Pa 8 Lennard Co. P M 18-25-26	Servonics Inc	Century Lighting Inc
P O Box 56 Village Sta New York 14 NY	822 N Henry St Alexandria Va 8-18	521 W 43 St New York 36 NY
Levinthal Electronic Products Inc	Servo-Recording Instruments Inc	Cincma-Television Ltd
3180 Hanover St Palo Alto Calif 11 Lithium Corp of America	1815 W Van Buren St 1-7-9-10-11-13-14 Phoenix Ariz 16-17-19-20-21	Worsley Bridge 1.d Lower Sydenham London SE 26 England 5-
2500 Rand Tower Minneapolis 2 Minn 26	Special Instruments Lab Inc	Clairex Corp
Lytle Eng'g & Mfg Co	312 W Vine Ave Knoxville 02 Tenn 13	50 W 26 St New York 10 NY
1404 San Mateo Blvd	Specialty Eng'g & Electronics Co	Coleman Instruments Inc 318 Madison St Maywood Ill
SE Albuquerque New Mexico 18	70 Clifton Pl Brooklyn 38 NY 13-15-21 State Labs Inc	Consolidated Productions Inc
Mackay Inc A D 198 Broadway New York 38 NY 11	649 Broadway New York 12 NY 29	Broward Int'l Airport Ft Lauderdale Fla
Mack Electronics Div Inc	Steward Mfg Co D M	Continental Electric Co Taylor Tubes Inc 6 N Michigan Ave Chicago 2 Ill
Sub Mack Trucks Inc	Chattanooga Tenn 26 Stromberg-Carlson Div General	Corona Eng'g Service
1120 S 2 St Plainfield NJ 7-10-17-19-21	Dynamics Corp 100 Carlson Rd	94-52 Co. ona Ave Elmhurst 73 NY
Marvel-Schebler Products Div Borg-Warner Corp Box 863 Decatur III 18	Rochester 3 NY 13	Dalmo Victor Co Div Textron Inc 1515 Industrial Way Belmont Calif
Matthew Labs	Systron Corp	Davenport Mfg Co
146 Riverdale Ave Yonkers NY 26	2055 Concord Blvd Concord Calif 9-10-24 Tarc Electronics Inc	1713 N Ashland Ave Chicago 22 Ill 6-
Measurement Eng'g Ltd. 7-8-9-19-13- 232 John St Arnprior Ontario Can 14-19-21	48 Urban Ave Westbury LI NY 9-13-15	Deitz Co S J 9 E Wesley St S Hackensack NJ
Menlo Research Lab	Technical Associates	Deltron Inc
538 Phelan Ave	140 W Providencia Ave 5-7-9-10-13-14-17 Burbank Calif 19-20-21-25-26	2905 N Leithgow St Philadelphia 33 Pa
San Jose Calif 9-10-12-13-14-17-21 Mil Case Corp	Technical Measurement Corp	Devco Eng'g Inc P O Box 387 Caldwell NJ
35-18 37 St Long Island City NY 7-25-26	140 State St 1-3-9-10-13	Dudek & Co R C
Minneapolis-Honeywell Regulator Co Industrial	New Haven 11 Conn 14-19-21-27 Telectro Industries Corp	407 N Maple Dr Beverly Hills Calif
Div wayne & Windrim Aves	35-18 37 St	Du Mont Labs Inc Ailen B 760 Bloomfield Ave Clifton NJ
Philadelphia 44 Pa 8-19 Moran Instrument Corp	Long Island City 1 NY 4-24-25-26 Tracerlab Inc	Eastman Kodak Co
170 E Orange Grove Ave	1601 Trapelo Rd 1-3-4-5-6-7-9-10-11-13	343 State St Rochester 4 NY
Pasadena 3 Calif	Waltham 54 14-16-17-18-19-20-21-22	Eldorado Electronics Co 1401 Middle Harbor Rd Oakland Calif
Mt Sopris Instrument Corp 1320 Pearl St Boulder Colo 3-13-14-27	Mass 23-25-26-27-28-29-30 Trott Electronics Inc	Electrical Service Co
National Carbon Co Div Union Continue	412 Smith St Rochester 6 NY 9	1271 Mission St San Francisco 3 Calif
Caroon 30 E 42 St New York 17 NV 96	Universal Atomics Corp	Electro-Mechanical Specialties Co 1016 N Highland Ave Los Angeles 38 Calif 8
National Radiac Inc	50 Bond St Westbury LI NY 7-9-10-13-14-17	Electronic Control Corp
475 Washington St 4-7-9-10-11-13 Newark 2 NJ 14-19-25-26-27	U S Radium Corp Morristown NJ 6-7-16 Varian Associates	1573 E Forest Ave Detroit 7 Mich
Nems-Clarke Inc	611 Hansen Way Palo Alto Calif 27	Electronics Corp of America 1 Memorial Dr Cambridge 42 Mass 2-6-1
919 Jesup-Blair Dr Silver Spring Md 21	Victoreen Instrument Co	Electron-Radar Products
Nevada Air Products Co P O Box 2472 Reno Nev 9-12-13-14-16-17	5806 Hough Ave 7-8-9-10-13-14 Cleveland 3 Ohio 16-17-19-20-21-28-29	4806 W Chicago Ave Chicago 51 lll
New England Nuclear Corp	Volk Radiochemical Co 1-3-5-7-9-10-11	Electro-Physics Co
575 Albany St Boston 18 Mass 10	5412 N Clark St 13-14-16-17-18-19-20	287 Broadway New York 7 NY 6-7-8 Elfa Instrument Center
Norton Co	Chicago 40 Ill 21-25-26-27-28-29-30 Western Radiation Lab	55 Reade St New York 7 NY
1 New Bond St Worcester 6 Mass 4-8-26 NRD Instrument Co 4-5-7-8-9-10-12-13-	1107 W 24 St 1-9-10-13-14	Ess Instrument Co
6425 Etzel Ave 14-16-17-10 20 21	Los Angeles 7 Calif 16-17-19-26-29	96 S Washington Ave Bergenfield NJ 6-8 Fecker Inc J W
Nuclear Chi C	Westinghouse Electric Corp Box 284 Elmira NY 28	6592 Hamilton Ave Pittsburgh 6 Pa
Nuclear-Chicago Corp 1-3-5-7-9-10-12-13- 223 W Erie St 14-16-17-18-19-20	Wood Counter Lab N	Federal Equipment Co
Chicago 10 TII 21 05 0C 07 00 00	1525 E 53 St 9-10-11-13-14	38 Brady St San Francisco 3 Calif
	Chicago 15 Ill 16-17-28-29-30	Fielden Instrument Div Robertshaw- Fulton Controls Co
	66—PHOTOELECTRIC	2920 N 4 St Philadelphia 33 Pa
Nuclear Development Com of American		Fisher Pierce Co
Nuclear Development Corp of America	EQUIPMENT	Fisher Pierce Co 170 Pearl St S Braintree 85 Mass 6
Nuclear Development Corp of America 5 New St White Plains NY Nuclear Development Lab	EQUIPMENT	Fisher Pierce Co 170 Pearl St S Braintree 85 Mass 6 Fisher Scientific Co 711 Forbes St Pittsburgh 22 Pa 1-7
Nuclear Development Corp of America 5 New St White Plains NY 18 Nuclear Development Lab P O Box 7034 Kansas City 13 Mo 9-13-28-29 Nuclear Electronics Corp.	EQUIPMENT  Colorimeters	Fisher Pierce Co 170 Pearl St S Braintree 85 Mass 6 Fisher Scientific Co 711 Forbes St Pittsburgh 22 Pa 1-7 Forro Scientific Co
Nuclear Development Corp of America 5 New St White Plains NY 18 Nuclear Development Lab P O Box 7034 Kansas City 13 Mo 9-13-28-29 Nuclear-Electronics Corp 2682 W Cumberland St 3.7.8.9.10.10.10.10	EQUIPMENT  Colorimeters	Fisher Pierce Co 170 Pearl St S Braintree 85 Mass Fisher Scientific Co 711 Forbes St Pittsburgh 22 Pa 1-7 Forro Scientific Co 833 Lincoln St Evanston III
Nuclear Development Corp of America 5 New St White Plains NY 18 Nuclear Development Lab P O Box 7034 Kansas City 13 Mo 9-13-28-29 Nuclear-Electronics Corp 2632 W Cumberland St 3-7-8-9-10-13-14- Philadelphia 32 Pa	EQUIPMENT  Colorimeters	Fisher Pierce Co 170 Pearl St S Braintree 85 Mass Fisher Scientific Co 711 Forbes St Pittsburgh 22 Pa 1-7 Forro Scientific Co 833 Lincoln St Evanston Ill Gardner Lab Inc P O Box 5728 Bethesda 14 Md
Nuclear Development Corp of America 5 New St White Plains NY 18 Nuclear Development Lab P O Box 7034 Kansas City 13 Mo 9-13-28-29 Nuclear-Electronics Corp 2632 W Cumberland St 3-7-8-9-10-13-14- Philadelphia 32 Pa 16-17-19-21-27-29-30 Nuclear Measurements Corp 2460 N Arlington Ave	EQUIPMENT  Colorimeters	Fisher Pierce Co 170 Pearl St S Braintree 85 Mass Fisher Scientific Co 711 Forbes St Pittsburgh 22 Pa Forro Scientific Co 833 Lincoln St Evanston Ill Gardner Lab Inc P O Box 5728 Bethesda 14 Md 1 Gates & Co Geo W
Nuclear Development Corp of America 5 New St White Plains NY 18 Nuclear Development Lab P O Box 7034 Kansas City 13 Mo 9-13-28-29 Nuclear-Electronics Corp 2632 W Cumberland St 3-7-8-9-10-13-14- Philadelphia 32 Pa 16-17-19-21-27-29-30 Nuclear Measurements Corp 2460 N Arlington Ave Indianapolis 18 To Ave	EQUIPMENT  Colorimeters	Fisher Pierce Co 170 Pearl St S Braintree 85 Mass Fisher Scientific Co 711 Forbes St Pittsburgh 22 Pa 1-7 Forro Scientific Co 833 Lincoln St Evanston Ill Gardner Lab Inc P O Box 5728 Bethesda 14 Md Gates & Co Geo W Hempstead Tpke & Lucille Ave Franklin Square LI NY
Nuclear Development Corp of America 5 New St White Plains NY 18 Nuclear Development Lab P O Box 7034 Kansas City 13 Mo 9-13-28-29 Nuclear-Electronics Corp 2632 W Cumberland St 3-7-8-9-10-13-14- Philadelphia 32 Pa 16-17-19-21-27-29-30 Nuclear Measurements Corp 2460 N Arlington Ave Indianapolis 18 Ind 7-9-10-13-14-16-21 Nuclear Systems Div Budd Co	EQUIPMENT  Colorimeters	Fisher Pierce Co 170 Pearl St S Braintree 85 Mass Fisher Scientific Co 711 Forbes St Pittsburgh 22 Pa 1-7 Forro Scientific Co 833 Lincoln St Evanston Ill Gardner Lab Inc P O Box 5728 Bethesda 14 Md Gates & Co Geo W Hempstead Tpke & Lucille Ave Franklin Square LI NY General Electric Co Apparatus Sales Div
Nuclear Development Corp of America  5 New St White Plains NY  18  Nuclear Development Lab  P O Box 7034 Kansas City 13 Mo 9-13-28-29  Nuclear-Electronics Corp  2632 W Cumberland St 3-7-8-9-10-13-14- Philadelphia 32 Pa 16-17-19-21-27-29-30  Nuclear Measurements Corp  2460 N Arlington Ave Indianapolis 18 Ind 7-9-10-13-14-16-21  Nuclear Systems Div Budd Co  2950 Roberts Ave Philadelphia 32 Pa 49-10-13-15-16	EQUIPMENT  Colorimeters 1 Counting machines 2 Headlight dimmers 3 Light supplies 4 Photocells & phototubes 5 Photoelectric units, complete 6 Photometers 7	Fisher Pierce Co 170 Pearl St S Braintree 85 Mass Fisher Scientific Co 711 Forbes St Pittsburgh 22 Pa 1-7 Forro Scientific Co 833 Lincoln St Evanston III 90 Gardner Lab Inc P O Box 5728 Bethesda 14 Md Gates & Co Geo W Hempstead Tpke & Lucille Ave Franklin Square LI NY General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY 1-5-6-8
Nuclear Development Corp of America  5 New St White Plains NY  18  Nuclear Development Lab  P O Box 7034 Kansas City 13 Mo 9-13-28-29  Nuclear-Electronics Corp 2632 W Cumberland St 3-7-8-9-10-13-14-  Philadelphia 32 Pa 16-17-19-21-27-29-30  Nuclear Measurements Corp 2460 N Arlington Ave Indianapolis 18 Ind 7-9-10-13-14-16-21  Nuclear Systems Div Budd Co 2950 Roberts Ave 4-9-10-13-15-16  Philadelphia 32 Pa 17-20-21-25-26	EQUIPMENT  Colorimeters	Fisher Pierce Co 170 Pearl St S Braintree 85 Mass Fisher Scientific Co 711 Forbes St Pittsburgh 22 Pa 1-7 Forro Scientific Co 8233 Lincoln St Evanston Ill Gardner Lab Inc P O Box 5728 Bethesda 14 Md Gates & Co Geo W Hempstead Tpke & Lucille Ave Franklin Square LI NY General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY 1-5-6-8 General Electric Co Electronic Components Div 1 River Rd Schenectady 5 NY 5
Nuclear Development Corp of America 5 New St White Plains NY 18 Nuclear Development Lab P O Box 7034 Kansas City 13 Mo 9-13-28-29 Nuclear-Electronics Corp 2632 W Cumberland St 3-7-8-9-10-13-14- Philadelphia 32 Pa 16-17-19-21-27-29-30 Nuclear Measurements Corp 2460 N Arlington Ave Indianapolis 18 Ind 7-9-10-13-14-16-21 Nuclear Systems Div Budd Co 2950 Roberts Ave Philadelphia 32 Pa 17-20-21-25-26 Nucleonic Corp of America 196 Degraw St 1-2-4-5-7-9-10-13-14-16-17	EQUIPMENT  Colorimeters 1 Counting machines 2 Headlight dimmers 3 Light supplies 4 Photocells & phototubes 5 Photoelectric units, complete 6 Photometers 7	Fisher Pierce Co 170 Pearl St S Braintree 85 Mass Fisher Scientific Co 711 Forbes St Pittsburgh 22 Pa 1-7 Forro Scientific Co 833 Lincoln St Evanston Ill 90 Gardner Lab Inc P O Box 5728 Bethesda 14 Md 10 Gates & Co Geo W Hempstead Tpke & Lucille Ave Franklin Square LI NY General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY 1-5-6-8 General Electric Co Electronic Components Div 1 River Rd Schenectady 5 NY 5 Giannini & Co G M
Nuclear Development Corp of America  5 New St White Plains NY  18  Nuclear Development Lab  P O Box 7034 Kansas City 13 Mo 9-13-28-29  Nuclear-Electronics Corp 2632 W Cumberland St 3-7-8-9-10-13-14-  Philadelphia 32 Pa 16-17-19-21-27-29-30  Nuclear Measurements Corp 2460 N Arlington Ave Indianapolis 18 Ind 7-9-10-13-14-16-21  Nuclear Systems Div Budd Co 2950 Roberts Ave Philadelphia 32 Pa 17-20-21-25-26  Nucleonic Corp of America 196 Degraw St 12-24-5-7-9-10-13-14-16-17  Brooklyn 31 NY 19-29-13 12 5-26-28-28-17	EQUIPMENT  Colorimeters 1 Counting machines 2 Headlight dimmers 3 Light supplies 4 Photocells & phototubes 5 Photoelectric units, complete 6 Photometers 7 Relays 8 Scanners 9  Advanced Instruments Inc	Fisher Pierce Co 170 Pearl St S Braintree 85 Mass 6 Fisher Scientific Co 711 Forbes St Pittsburgh 22 Pa 1-7 Forro Scientific Co 833 Lincoln St Evanston III 90 Gardner Lab Inc P O Box 5728 Bethesda 14 Md Gates & Co Geo W Hempstead Tpke & Lucille Ave Franklin Square LI NY General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY 1-5-6-8 General Electric Co Electronic Components Div 1 River Rd Schenectady 5 NY Giannini & Co G M 918 E Green St Pasadena Calif
Nuclear Development Corp of America  5 New St White Plains NY  18 Nuclear Development Lab  P O Box 7034 Kansas City 13 Mo 9-13-28-29 Nuclear-Electronics Corp  2632 W Cumberland St 3-7-8-9-10-13-14-Philadelphia 32 Pa 16-17-19-21-27-29-30 Nuclear Measurements Corp  2460 N Arlington Ave  Indianapolis 18 Ind 7-9-10-13-14-16-21 Nuclear Systems Div Budd Co  2950 Roberts Ave 4-9-10-13-15-16 Philadelphia 32 Pa 17-20-21-25-26 Nucleonic Corp of America 17-20-21-25-26 Nucleonic Corp of America 196 Degraw St 1-2-4-5-7-9-10-13-14-16-17 Brooklyn 31 NY  Dhmart Corp 2236 Bogen St 19-20-21-25-26-27-28-29-30 Nucleon Name of Corp 19-20-21-25-26-27-28-29-30 Nucleonic Corp	EQUIPMENT  Colorimeters 1 Counting machines 2 Headlight dimmers 3 Light supplies 4 Photocells & phototubes 5 Photoelectric units, complete 6 Photometers 7 Relays 8 Scanners 9  Advanced Instruments Inc 21 Oakcrest Rd Needham 92 Mass 1-7	Fisher Pierce Co 170 Pearl St S Braintree 85 Mass 6 Fisher Scientific Co 711 Forbes St Pittsburgh 22 Pa 1-7 Forro Scientific Co 833 Lincoln St Evanston Ill 90 Gardner Lab Inc P O Box 5728 Bethesda 14 Md 10 Gates & Co Geo W Hempstead Tpke & Lucille Ave Franklin Square LI NY General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY 1-5-6-8 General Edectric Co Electronic Components Div 1 River Rd Schenectady 5 NY Giannini & Co G M 918 E Green St Pasadena Calif 918 E Green St Pasadena Calif Glens Falls Lab Box 685 Glens Falls NY
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		And Specialties Co.
Larson Instrument Co 24 Orchard St Tarrytown NY	Power supplies, low voltage 6	Associated Specialties Co 1751 Main St Orefield Pa
Leach Corp Leach Relay Div	Power Supplies, microwave	Atlantic Research Corp 901 N Columbus St Alexandria Va 3-11
5915 Avalon Blvd Los Angeles 3 Calif Lumenite Electronic Co	Power supplies, mobile 9	Atlas Eng'g Co 176 Blue Hill Ave Roxbury 19 Mass 1-3-4-8-11
407 S Dearborn St Chicago 5 Ill 6-8 Luxor Lighting Products Inc	Power supplies, radar 10	Authorized Mfrs Service Co 919 Wyckoff Ave Brooklyn 27 NY 1-3-6-12-13
350 5 Ave New York 1 NY Machinery Electrification Inc	Power supplies, regulated 11 Power supplies, special purpose 12	Automatic Electric Co 1033 W Van Buren St Chicago 7 Ill 3-6
35 Hudson St Northboro Mass 6-8	Power supplies, transistor 13	Autonetics Div North American Aviation
Magnadyne Corp 84 S Water St Byram Conn	Power supplies, variable	9150 E Imperial Hwy Downey Calif Avion Div ACF Industries Inc
Manufacturers Eng'g & Equip Corp York Rd & Sunset Lane Hatboro Pa	frequency	11 Park Pl Paramus NJ 1-2-3-11-12-13-10
Matthew Labs 146 Riverdale Ave Yonkers NY 1-7	Choppers	Avionics Ltd P O Box 200 Nicron on the Lake Ont Capada 5-7-13
Measurement Eng'g Ltd	Converters, AC-DC 17	Autron Mfg Inc
232 John St Arnprior Ontario Can Micro Balancing Inc	Converters, DC-AC	10409 Meech Ave Cleveland 5 Ohio 12 Axler Associates Inc
191 Herricks Rd Garden City Park NY Milwaukee Gas Specialty Co	Converters, frequency	102-42 43 Ave Corona 68 NY 1-3-11 Baird-Atomic Inc
730 N Jackson St Milwaukee 1 Wis	Converters, waveform 21	33 University Rd Cambridge 38 Mass 4
Morse Co Frank W 1300 Soldiers Field Rd Boston 35 Mass	Inverters	Barker & Williamson Inc Canal & Beaver Sts Bristol Pa 14
Nucleonic Products Co 1601 Grande Vista Ave	Regulators, current	Barnes Development Co 213 W Baltimore Pike Lansdowne Pa 15
Los Angeles 23 Calif Pantek Co	Vibrators	Beckman/Helipot Corp Newport Beach Calif
P O Box 212 El Segundo Calif 2-8 Patwin Instruments Div Patent Button Co	Vibrators, ultrasonic 26	Beckman/Berkeley Div Beckman
Waterbury 20 Conn	Assumpt: Wingig CO	Instruments Inc 2200 Wright Ave Richmond 3 Calif 2
Perkin-Elmer Corp Main Ave Norwalk Conn 7-5	2005 Blue Island Ave Chicago 8 111 3-12	Beckman Instruments Inc Data & Control Systems Scientific Instrument Div
Phillips Control Corp 59 W Washington St Joliet III	Acme Electric Corp Water St Cuba NY 1-2-3-6-11-13	325 N Muller Ave Anaheim Calif 1-2-3 Behlman Eng'g Co
Phoenix Precision Instrument Co 3803 N 5 St Philadelphia 40 Pa	Acoustica Associates	114 S Hollywood Way
Photobell Co	Adler Electronics Inc	Bell Aircraft Corp
43 Vesey St New York 7 NY 2-5-6-6 Photo Crystals Inc	New Rochelle NY 3-6-11-12-22	P O Box 1 1-2-3-4-5-6-7-8-9-10-11 Buffalo 5 NY 12-13-14-17-18
15 S 1 St Geneva Ill Photovolt Corp	Advance Electronics Co 8510 North End Ave Oak Park 37 Mich 3-8	Belock Instrument Corp
95 Madison Ave New York 16 NY 1- Potter & Brumfield Inc	Advance Instrument Corp	Bendix Aviation Corp Bendix Radio Div East Joppa Rd
1200 E Broadway Princeton Ind Practical Electronics Mfg Co	Aerovox Corp Pacific Coast Div 2724 S Peck Rd Monrovia Calif 3-12	Towson 4 Md 1-3-4-5-6-7-8-9-10-11-12
569 W Van Buren St Chicago 7 Ill 5-	AiResearch Mfg Co Div Garret Corp	Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich 17-22
Quantametric Devices Inc Box 1107 Binghamton NY	9851 Sepulveda Blvd 7 Los Angeles 45 Calif 12-17-18-22	Bendix Aviation Corp Red Bank Div Eatontown NJ 1-3-6-13-14-17-18-19-20-22-24
Radio Corp of America 415 S 5 St Harrison NJ	Airmec Ltd High Wycombe Buckinghamshire England 3-5-11-2;	Berkshire Labs 586 Bank Village Greenville NH 11-12-13-24
Radio Eng'g Co	Airpax Products Co 8 Middle River Baltimore 20 Md 12-18-22-25	Beta Electric Div Sorensen Co 333 E 103 St New York 29 NY 3-4-11-12
Ripley Co	Alfred Electronics	Beva Laboratory 1640 N Olden Ave Ext Trenton 8 NJ 4
Rockwell Eng'g Co	Palo Alto Calif 4-5-7-11-12	B J Electronics Borg-Warner Corp 3300 Newport Ave Santa Ana Calif 4-11
Rosco Labs	8 Allis Co Louis 427 E Stewart St Milwaukee 1 Wis 19-24	Bogue Electric Mfg Co
29 Moore St Brooklyn 6 NY Sensory Inc	Aloe Scientific 5655 Kingsbury Blvd St Louis 12 Mo 16	Paterson 3 NJ 16-17-18-19-20-22-23-24
Pleasantville Rd New Vernon NJ Servo Corp of America	8 Altec Lansing Corp 1515 S Manchester Ave Angheim Calif 12	
	7 Alto Scientific Co 855 Commercial St	Booth Co Arthur E 265 S Alexandria Ave
P O Box 869 Port Chester NY Sigma Instruments Inc	8 Palo Alto Calif 3-4-5-8-10-11-12-13 Ameco	Los Angeles 4 Calif 1-3-6-12-14 Bristol Co
170 Pearl St S Braintree Mass	8 2949 W Osborn Rd Phoenix Ariz 11-12	P O Box 1790 EITT Waterbury 20 Conn 15-17-18-22
Skiatron Electronics & TV Corp 180 Varick St New York 14 NY	American Electric Fusion Corp 9 2600 Diversey Ave Chicago 47 Ill 23	
Soderberg Mfg Co 628 S Palm Ave Alhambra Calif	American Electronic Laboratories 4 121 N 7 St Philadelphia 6 Pa 3-6-12	Brunswick Instruments
Southwest Products Inc	American Gyro Corp 1 3030 Nebraska Ave Santa Monica Calif 22	Buck Eng'g Co
Sperry Gyroscope Co Div Sperry Rand Corp	American Instrument Co	Bundy Electronics Corp
Great Neck NY State Labs Inc	8030 Georgia Ave Silver Spring Md 4-11 American Machine & Foundry Co Defense	171 Fabyan Pl Newark 12 NJ 6 Buss-Clement-Doughton & Associates
649 Broadway New York 12 NY Taller & Cooper	Products Group 1101 N Royal St	201 B Studio Hill Chester Springs Pa 12
75 Front St Brooklyn 1 NY Tarc Electronics Inc	American Microwave Corp	P O Box 298 Caledonia NY 4
48 Urban Ave Westbury LI NY Technical Measurement Corp	9 11754 Vose St N Hollywood Calif 4-7 American Rectifier Corp	11922 Valerio St 1-2-4-6-8-9-10
140 State St New Haven 11 Conn	9 95 Lafayette St New York 13 NY 3-6-9-11 American Research & Mfg Corp	Calif Technical Industries
Telechrome Mfg Corp 28 Ranick Dr Amityville LI NY 1.	OOO II-leina Ana	1421 Old County Rd Belmont 10 Calif 7 Camera Equipment Co
Telectro Industries Corp 35-18 37 St Long Island City 1 NY	8 American Television & Radio Co	315 W 43 St New York 36 NY Canadian Aviation Electronics Ltd
Telegraph Condenser Co N Acton London W 3 England	300 E 4 St 4 St Paul 1 Minn 1-3-6-8-9-17-18-20-22-25	6214 Cote de Liesse Rd St Laurent Quebec Canada 13
U S Controls Inc 161 Grand St New York 13 NY	American Transformer Co. 2 Div Standard Electronics	Canoga Corp 5955 Sepulveda Blvd Van Nuys Calif 10
Waldorf Instrument Co Div F C Huyck &	285 Emmett St Newark 5 NJ 4-6-11-21	
Sons Park Ave Huntington Station NY	Ampex Corp 9 934 Charter St Redwood City Calif 11	Carol Electronics Corp
Weston Electrical Instrument Corp Sub Daystrom Inc 614 Frelinghuysen Ave	AMP Inc Chemical Dielectrics Div 155 Park St Elizabethtown Pa 3-4-11-19	315 W Stephen St Martinsburg W Va 3-11 Carter Motor Co
Newark 12 NJ Wheelock Signals Inc	1 Amtron Corp 17 Felton St Waltham 54 Mass 19	2711 W George St Chicago 18 Ill 22 Cedar Eng'g Inc
Long Branch NJ	8 Anton Electronic Labs	5806 W 36 St Minneapolis Minn Central Transformer Co
Winkler Labs 5225 N 20 St Phoenix Ariz	1226 Flushing Ave Brooklyn 6 NY 16 4 Applegate & Co C J	' 910 W Jackson Blvd Chicago 7 Ill 3-4
Worner Electronic Devices Rankin III 2	1840 24 St Boulder Colo 3-4-6-11-12-24 -8 Arnold Magnetics Corp	1534 N Clybourn Ave Chicago 10 Ill Century Electronics & Instruments Inc
	4615 W Jefferson Blvd Los Angeles 16 Calif 18-26	1333 N Utica Ave Tulsa 10 Okla 1-3
67—POWER SUPPLIES &	Arnoux Corp	34 Oleander St Cocoa Fla 12
CONVERTERS	11924 W Washington Blvd Los Angeles 66 Calif 3-4-6-8-11-13-29	
Power supplies, AC 1 Power supplies, computer 2	Askania Regulator Co 240 E Ontario St Chicago 11 III 16-17-20-2:	Chase-Shawmut Co 3 374 Merrimac St Newburyport Mass 23
Power supplies, DC 3	Assembly Products Inc	W Mt Pleasant Ave Livingston NJ 3-4-11-12
Power supplies, high voltage 4	Associated Eng'g Corp	Chicago Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park Ill 2-12
Power supplies, klystron 5	69 Vent 2t prooving 40 mass	

	3410 W 67 St	F
	Los Aprolos 42 Calif 3 6 0-11-17	F
	Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London SE 26 England Clark Controller Co 1146 E 152 St Cleveland 10 Ohio 16-24	F
	Clark Controller Co 1146 E 152 St Cleveland 10 Ohio 16-24	
	Clegg Labs Div Clegg Inc Ridgedale Ave Morristown NJ 3-4-5-7-11-12 Colling Electronics Mfg Corp	F
		F
	Stevensville Md 3-15-25 Collins Radio Co	F
	855 35 St N E Cedar Rapids lowa 1-3-13 Colorado Research Corp	E
	4697 E Evans Ave Denver 22 Colo 2-12 Communication Accessories Co	11.
	Communication Accessories Co 110 St & 71 Hwy Hickman Mills Mo 3-8-16-20-24	E
	Condenser Products Div New Haven	
	Condenser Products Div New Haven Clock & Watch Co 140 Hamilton St New Haven 4 Conn 2-8-4-6-8-10-11-12 Conn Telephone & Electric Corp	E
	70 Brittania St Meriden Conn 6-11-12	E
	Consolidated Avionics Corp 66 Brooklyn Ave	E
	Westbury NY 1-2-12-14-16-17 Consolidated Electrodynamics Corp	E
	300 N Sierra Madre Villa	£
*3	Continental Electric Co	E
	325 Ferry St Newark 5 NJ 1-3-12-18-22 Continental Electronics Mfg Co	E
	4212 S Buckner Blvd Dallas 27 Texas Continental X-Ray Corp	E
	1536 N Clybourn Ave Chicago 10 Ill 4	
	1536 N Clybourn Ave Chicago 10 Ill 4 Cornell-Dubilier Electric Corp 333 Hamilton Blvd	E
	S Plainfield NJ 7-9-11-12-17-18-22-25 Cutler-Hammer Inc	E
	315 N 12 St Milwaukee 1 Wis 16-24 Dallons Labs	E
	5066 Santa Monica Blvd	
	Los Angeles 29 Calif 26 Davenport Mfg Co	E
	Chicago 22 Ill 1-2-3-4-5-6-8-11-12-13	E
	1713 N Ashland Ave Chicago 22 Ill 1-2-3-4-5-6-8-11-12-13 Dearborn Electronic Labs Inc 1421 N Wells St Chicago 10 Ill 4-6-12 Del Electronics Corp.	E
	41 N MacQuesten Pkwv	F
	Mt Vernon NY 1-3-4-12 Deltron Inc	F
	2905 N Leithgow St	F
	DeMornay-Bonardi Corp	F
	Dittmore-Freimuth Corp	F
	2517 E Norwich St Milwaukee 7 Wis 12 Doty Acoustical Electronic Labs	F
	431 Broome St New York 13 NY 3 Douglas Radio Labs	
	176 Norfolk Ave Boston 19 Mass 11 Downing Crystal Co	F
	191 Shaffer Ave Westminster Md 15 D & R Ltd	F
	402 E Gutierree St Santa Barbara Calif 19 Dressen-Barnes Corp	F-
	250 N Vinedo Ave Pasadena Calif 2-3-4-6-7-9-10-11-12-13	G
	Dresser Electric Co 942 E Larned Detroit 7 Mich 3	_
	Du Mont Labs Inc Allen B	G
	Dunlap Electronics	G
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	11941 Wilshire Blvd Los Angeles 25 Calif 11-12-16	G
	Dynamics Instrumentation Co Div Alberhill Corp 1118 Mission St	G
	5 Pasadena Calif 9961110100004	Ge
	Dynamics Research Associates Div Universal Match Corp P O Box 5841 Ferguson 21 Mo 1-3-11-16-17-18-19	G
	Eagle-Picher Co American Bldg Parkway & Walnut	G
	Cincinnati 2 Ohio  Eastern Precision Resistor Corp	
	675 Barbey St	Ge
	Eberline Instrument Div Reynolds	Go
	Electrical 805 Early St Santa Fe N Mex 4-6-8-13	Go
	Edko Electronics Eng'g Co 202 Grand St	GI
	Brooklyn 11 NY 1-2-3-4-6-8-9-10-11-12 Eieor Inc	Gı
	4235 W North Ave	Gı
	Elcor Inc	Gı
	P O Box 354 McLean Va Electrical Communications Inc	G <sub>3</sub>
	765 Clementina St San Francisco 3 Calif 1-3-6-9-12	u)
	Electric Regulator Corp Pearl St Norwalk Conn 1-3-6-9-13-16-22	H
	Electric Specialty Co 211 South St	Н
	Stamford 1 Conn 1-3-4-6-9-10-11-14	
	Electro Eng'g Works 401 Preda St San Leandro Calif 3-5-7-24	H

Electronic Assembly 5 Prescott St
Roxbury 19 Mass   1-3-6-8-12-13  Electronic Communication Equipment Co 1249 W Loyola Ave Chicago 26 Ill 3  Electronic Contractors Inc 2101 SE 6 Ave Portland 14 Ore 2  Electronic Instrument Co 84 Withers St Royoklyn 11 NV
Electronic Communication Equipment Co 1249 W Loyola Ave Chicago 26 Ill 3
Electronic Contractors Inc
2101 SE 6 Ave Portland 14 Ore 2 Electronic Instrument Co
84 Withers St Brooklyn 11 NY 17 Electronic Measurements Co
Lewis St & Maple Ave 3-4-5-6-7-8-10-11
Eatontown NJ 12-13-17-23-24 Electronic Measurements Corp
625 Broadway New York 12 NY 3
Electronic Research Associates 67 E Centre St
Nutley 10 NJ 3-6-9-11-13-20-22-23
Electronic Specialty Co 5121 San Fernando Rd
Los Angeles 39 Calif 1-3-8-16-17-18-22-24 Electro-Physics Co
287 Broadway New York 7 NY 24
287 Broadway New York 7 NY 24 Electro Products Labs Inc 4501 N Ravenswood Ave Chicago 40 Ill 3
Electrosolids Corp
7436 Varna Ave N Hollywood Calif 1-3-12-13-17-18-22
Electro-Technical Labs Div Mandrel
Industries 5134 Glenmont Houston Texas 3
El-Tronics Inc Penn Ave Mayfield Pa 2-4
Empire Devices Products Corp
38-15 Bell Blvd Bayside 61 NY 12-14 Endeco Eng'g Development Co of Los
Angeles 922 E Anaheim St Wilmington Calif 13
Endevco Corp
161 E California St Pasadena Calif Engineered Electronics Co
506 E 1 St Santa Ana Colif 3_11_19
Engineered Magnetics Div Gulton Industries Inc 13030 Cerise Ave Hawthorne Calif 2-3-6-8-12-13-16-17-18-24
Hawthorne Calif 2-3-6-8-12-13-16-17-18-24 Engineering Associates
434 Patterson Rd Dayton 9 Ohio 5-11-12-14
Essex Electronics 550 Springfield Ave Berkeley Heights NJ 4 Evide Industrial Div Floatie
Exide industrial Div Electrical
Storage Battery Co 42 S 15 St Philadelphia 2 Pa 16
Fansteel Metallurgical Corp 2200 Sheridan Rd N Chicago Ill 3
Federal Mfg & Eng'g Corp
1055 Stewart Ave Garden City NY 3
Federal Telephone & Radio Co Div IT&T
100 Kingsland Rd Clifton N.I 24
100 Kingsland Rd Clifton NJ 24 Filtron Co 131-15 Fowler Ave Flushing 55 NV 3-5-10
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James Vibrapowr Co 4050 N Rockwell St Chicago 18 Ill Jerrold Electronics Cor 23 & Chestnut Sts Ph	3-9-15-1	17-18-25
James Vibrapowr Co 4050 N Rockwell St Chicago 18 Ill Jerrold Electronics Cor 23 & Chestnut Sts Ph Kahn & Co 541 Windsor St Hart Kaiser Aircraft & Elect	3-9-15-1 piladelphia 3 Pa ford 1 Conn	17-18-25 3-11-12 3
James Vibrapowr Co 4050 N Rockwell St Chicago 18 Ill Jerrold Electronics Cor 23 & Chestnut Sts Ph Kahn & Co 541 Windsor St Hart Kaiser Aircraft & Elect Toledo Electronics Di Toledo Ohio	3-9-15-1 piladelphia 3 Pa ford 1 Conn	3-11-12 3-11-13
James Voros St Soland James Vibrapowr Co 4050 N Rockwell St Chicago 18 Ill Jerrold Electronics Corp 23 & Chestnut Sts Ph Kahn & Co 541 Windsor St Hart Kaiser Aircraft & Elect Toledo Ohio Kato Eng'g Co 1415 1 Ave	3-9-15-1 piladelphia 3 Pa ford 1 Conn tronics Corp v P O Box 437 3-4-6-7-8-10-1	17-18-25 3-11-12 3 7 11-12-13
143 Gedros St Soland James Vibrapowr Co 4050 N Rockwell St Chicago 18 Ill Jerrold Electronics Corp 23 & Chestnut Sts Ph Kahn & Co 541 Windsor St Hart Kaiser Aircraft & Elect Toledo Chio Kato Eng'g Co 1415 1 Ave Mankato Minn	3-9-15-1 piladelphia 3 Pa ford 1 Conn tronics Corp v P O Box 437 3-4-6-7-8-10-1	17-18-25 3-11-12 3 7 11-12-13
James Vibrapowr Co 4050 N Rockwell St Chicago 18 Ill Jerrold Electronics Corp 23 & Chestnut Sts Pt Kahn & Co 541 Windsor St Hart Kaiser Aircraft & Elect Toledo Electronics Di Toledo Ohio Kato Eng's Co 1415 1 Ave Mankato Minn Katolight Corp Box 891 Mankato Mir Katolight Corp 1415 1 Ave	3-9-15-1 pilladelphia 3 Pa ford 1 Conn tronics Corp v P O Box 437 3-4-6-7-8-10-1 3-4-6-9-14-17-18-1	3-11-12 3-11-12 3 11-12-13 19-20-22
143 Gedros St Soland James Vibrapowr Co 4050 N Rockwell St Chicago 18 Ill Jerrold Electronics Corp 23 & Chestnut Sts Ph Kahn & Co 541 Windsor St Hart Kaiser Aircraft & Elect Toledo Electronics Di Toledo Ohio Kato Eng'g Co 1415 1 Ave Mankato Minn Katolight Corp Box 891 Mankato Min Katolight Corp 1415 1 Ave Mankato Minn 1-15 Katolight Corp 1415 1 Ave Mankato Minn 1-15 Kintel (Kay Lab) 5725 Kearny Villa Rd	3-9-15-10 pilladelphia 3 Pa ford 1 Conn tronics Corp v P O Box 437 3-4-6-7-8-10-1 3-4-6-9-14-17-18-1 an 1-3-7-9-1	3-11-12 3-11-12 3-11-12-13 11-12-13 19-20-22 14-17-18
James Vibrapowr Co 4050 N Rockwell St Chicago 18 III Jerrold Electronics Cory 23 & Chestnut Sts Pk Kahn & Co 541 Windsor St Hart Kaiser Aircraft & Elect Toledo Chio Kato Eng's Co 1415 I Ave Mankato Minn 1 Katolight Corp Box 891 Mankato Mir Katolight Corp 1415 I Ave Mankato Minn 1 Katolight Corp 1415 I Ave Mankato Minn 1 Katolight Corp 1415 I Ave Mankato Minn 1 Kintel (Kay Lab) 5725 Kearny Villa R San Diego 12 Calif	3-9-15-1 puiladelphia 3 Pa ford 1 Conn tronics Corp v P O Box 437 3-4-6-7-8-10-1 3-4-6-9-14-17-18-1	3-11-12 3-11-12 3-11-12-13 19-20-22 14-17-18
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143 Gedros St Soland James Vibrapowr Co 4050 N Rockwell St Chicago 18 Ill Jerrold Electronics Corp 23 & Chestnut Sts Pk Kahn & Co 541 Windsor St Hart Kaiser Aircraft & Elect Toledo Electronics Di Toledo Ohio Kato Eng'g Co 1415 1 Ave Mankato Minn Katolight Corp Box 891 Mankato Mir Katolight Corp 1415 1 Ave Mankato Minn Liktolight Corp 1415 1 Ave Mankato Minn Liktolight Corp 1415 1 Ave Mankato Minn Liktolight Corp 1415 1 Ave Mankato Minn Katolight Corp 1415 1 Ave Mankato Minn Katolig	3-9-15-19 pilladelphia 3 Pa ford 1 Conn fronics Corp v P O Box 437 3-4-6-7-8-10-1 3-4-6-9-14-17-18-1 an 1-3-7-9-1 3-4-6-9-14-17-18-1 brk 59 NY 1-2-3-4-5-6-7 1-12-13-14-16-20-2	3-11-12-13 3-11-12-13 19-20-22 14-17-18 19-20-22 3-11 24 7-8-9-10 12-23-24
James Vibrapowr Co 4050 N Rockwell St Chicago 18 III Jerrold Electronics Cory 23 & Chestnut Sts Pk Kahn & Co 541 Windsor St Hart Kaiser Aircraft & Elect Toledo Chio Kato Eng's Co 1415 1 Ave Mankato Minn Katolight Corp Box 391 Mankato Mir Katolight Corp 1415 1 Ave Mankato Minn Kintel (Kay Lab) 5725 Kearny Villa Rd San Diego 12 Calif Kenyon Transformer Co 840 Barry St New Yc Kepco Labs 131-38 Sanford Ave Flushing NY 11 Keystone Products Co 904 23 St Union City Kinney Mfg Diy Vacuu	3-9-15-19 pilladelphia 3 Pa ford 1 Conn fronics Corp v P O Box 437 3-4-6-7-8-10-1 3-4-6-9-14-17-18-1 an 1-3-7-9-1 3-4-6-9-14-17-18-1 brk 59 NY 1-2-3-4-5-6-7 1-12-13-14-16-20-2	3-11-12-13 3-11-12-13 11-12-13 19-20-22 14-17-18 19-20-22 3-11 24 7-8-9-10
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143 Gedros St Soland James Vibrapowr Co 4050 N Rockwell St Chicago 18 III Jerrold Electronics Cor 23 & Chestnut Sts Pkahn & Co 541 Windsor St Hart Kaiser Aircraft & Elect Toledo Electronics Di Toledo Ohio Kato Eng'g Co 1415 I Ave Mankato Minn 1-: Katolight Corp Box 891 Mankato Mir Katolight Corp 1415 I Ave Mankato Minn 1-: Katolight Corp 1415 I Ave Mankato Minn 1-: Kintel (Kay Lab) 5725 Kearny Villa Rd San Diego 12 Calif Kenyon Transformer C 840 Barry St New Yo Kepco Labs 131-38 Sanford Ave Flushing NY Keystone Products Co 904 23 St Union City Kinney Mfg Div Vacuu NY Air Brake Co 3529 Washington St F Krohn-Hite Corp 580 Massachusetts Av	3-9-15-1 pilladelphia 3 Pa ford 1 Conn ford 1 Conn tronics Corp v P O Box 437 3-4-6-7-8-10-1 3-4-6-9-14-17-18-1 an 1-3-7-9-1 3-4-6-9-14-17-18-1 3-4-6-9-14-17-18-1 3-4-6-9-14-17-18-1 3-4-6-9-14-17-18-1 3-4-6-9-14-17-18-1 3-4-6-9-14-17-18-1 3-4-6-9-14-17-18-1 3-4-6-9-14-17-18-1 3-4-6-9-14-17-18-1 3-4-6-9-14-17-18-1 3-4-6-9-14-17-18-1 3-4-6-9-14-17-18-1 3-4-6-9-14-17-18-1 3-4-6-9-14-17-18-1 3-4-6-9-14-17-18-1 3-4-6-9-14-17-18-1	3-11-12 3-11-12-13 19-20-22 14-17-18 19-20-22 3-11 24 7-8-9-10 12-23-24
James Vibrapowr Co 4050 N Rockwell St Chicago 18 III Jerrold Electronics Cory 23 & Chestnut Sts Ph Kahn & Co 541 Windsor St Hart Kaiser Aircraft & Elect Toledo Chico Kato Eng'g Co 1415 I Ave Mankato Minn Katolight Corp Box 891 Mankato Mir Katolight Corp 1415 I Ave Mankato Minn Kratolight Corp 1416 I Ave Flushing NY Keystone Products Co 904 23 St Union City Kinney Mfg Div Vacuu NY Air Brake Co 3529 Washington St E Krohn-Hite Corp 580 Massachusetts Av Cambridge 39 Mass Kurman Electric Co 191 Newel St Brookly	3-9-15-1  3-9-15-1  3-9-15-1  1-10	3-11-12 3-11-12-13 11-12-13 19-20-22 14-17-18 19-20-22 3-11 24 7-8-9-10 12-23-24
143 Gedros St Soland James Vibrapowr Co 4050 N Rockwell St Chicago 18 Ill Jerrold Electronics Corr 23 & Chestnut Sts Pk Kahn & Co 541 Windsor St Hart Kaiser Aircraft & Elect Toledo Electronics Di Toledo Chio Kato Eng'g Co 1415 I Ave Mankato Minn 1 Katolight Corp Box 891 Mankato Mir Katolight Corp Halis I Ave Mankato Minn 1 Katolight Corp 1415 I Ave Mankato Minn 1 Katolight Corp 1425 Kearny Villa R San Diego 12 Calif Kenyon Transformer Cc 840 Barry St New Yc Kepco Labs 131-38 Sanford Ave Flushing NY Keptone Products Co 904 23 St Union City Kinney Mfg Div Vacuu NY Air Brake Co 3529 Washington St E Krohn-Hite Corp 580 Massachusetts Av Cambridge 39 Mass Kurman Electric Co 191 Newel St Brookly Lab Corp E Onondaga Skaneate Lambda Electronics Cor	3-9-15-1 p iiladelphia 3 Pa ford 1 Conn tronics Corp v P O Box 437 3-4-6-7-8-10-1 3-4-6-9-14-17-18-1 an 1-3-7-9-1 3-4-6-9-14-17-18-1 ork 59 NY 1-2-3-4-5-6-7 1-2-13-14-16-20-2 NJ m Equip Div Boston 30 Mass e	3-11-12 3-11-12-13 19-20-22 14-17-18 19-20-22 3-11 24 7-8-9-10 12-23-24 1-3 1 3-11-12 25
James Vibrapowr Co 4050 N Rockwell St Chicago 18 III Jerrold Electronics Corp 23 & Chestnut Sts Pole Kahn & Co 541 Windsor St Hart Kaiser Aircraft & Elect Toledo Electronics Di Toledo Ohio Kato Eng'g Co 1415 I Ave Mankato Minn Katolight Corp Box 891 Mankato Min Katolight Corp 1415 I Ave Mankato Minn Katolight Corp 1415 I Ave Mankato Minn Katolight Corp 1415 I Ave Mankato Minn Kratolight Corp 1416 I Ave Mankato Minn Kratolight Corp 1417 I Ave Mankato Minn Kratolight Corp 1418 I Ave Casab Sarry St New Yo Kepco Labs 131-38 Sanford Ave Flushing NY Kreystone Products Co 904 23 St Union City Kinney Mfg Div Vacuu NY Air Brake Co 3529 Washington St F Krohn-Hite Corp 580 Massachusetts Av Cambridge 39 Mass Kurman Electric Co 191 Newel St Brookly Lab Corp E Onondaga Skaneate Lambda Electronics Cor 11-11 131 St	3-9-15-1  3-9-15-1  iliadelphia 3 Pa  ford 1 Conn  ford 1 Conn  ford 1 Conn  ronics Corp  v P O Box 437  3-4-6-7-8-10-1  3-4-6-9-14-17-18-1  an 1-3-7-9-1  3-4-6-9-14-17-18-1  ork 59 NY  1-2-3-4-5-6-7  1-12-13-14-16-20-2  NJ  m Equip Div  3-3-4-5-6-7  3-4-6-9-14-17-18-1  2-3-4-5-6-7  1-2-3-4-5-6-7  2-3-4-5-6-7  2-3-4-5-6-7  2-3-4-5-7  2-3-4-5-7  2-3-4-5-7	3-11-12 3-11-12-13 19-20-22 14-17-18 19-20-22 3-11 24 7-8-9-10 12-23-24 1-3 1 3-11-12 25
James Vibrapowr Co 4050 N Rockwell St Chicago 18 III Jerrold Electronics Cor 23 & Chestnut Sts Pk Kahn & Co 541 Windsor St Hart Kaiser Aircraft & Elect Toledo Electronics Di Toledo Ohio Kato Eng'g Co 1415 I Ave Mankato Minn 1 Katolight Corp Box 891 Mankato Mir Katolight Corp Hart St New Mankato Minn 1 Katolight Corp 1415 I Ave Mankato Minn 1 Kintel (Kay Lab) 5725 Kearny Villa Rd San Diego 12 Calif Kenyon Transformer Co 840 Barry St New Yo Kepco Labs 131-38 Sanford Ave Flushing NY 11 Keystone Products Co 904 23 St Union City Kinney Mfg Div Vacuu NY Air Brake Co 3529 Washington St E Krohn-Hite Corp 580 Massachusetts Av Cambridge 39 Mass Kurman Electric Co 191 Newel St Brookly Lab Corp E Onondaga Skaneate Lambda Electronics Cor 11-11 131 St College Point 56 NY Lambda-Pacific Eng'g 14725 Arminta St Vuenu	3-9-15-1 p	17-18-25 3-11-12 37 11-12-13 19-20-22 14-17-18 19-20-22 3-11 24 7-8-9-10 12-23-24 1-3 13-11-12 25 25 -6-7-8-9 1-12-13
143 Gedros St Soland James Vibrapowr Co 4050 N Rockwell St Chicago 18 III Jerrold Electronics Cor 23 & Chestnut Sts Pk Kahn & Co 541 Windsor St Hart Kaiser Aircraft & Elect Toledo Electronics Di Toledo Ohio Kato Eng'g Co 1415 I Ave Mankato Minn 1 Katolight Corp Box 891 Mankato Mir Katolight Corp Hart St New Mankato Minn 1 Katolight Corp 1415 I Ave Mankato Minn 1 Kintel (Kay Lab) 5725 Kearny Villa Rd San Diego 12 Calif Kenyon Transformer Co 840 Barry St New Yo Kepco Labs 131-38 Sanford Ave Flushing NY Keystone Products Co 904 23 St Union City Kinney Mfg Div Vacuu NY Air Brake Co 3529 Washington St E Krohn-Hite Corp 580 Massachusetts Av Cambridge 39 Mass Kurman Electric Co 191 Newel St Brookl Lab Corp E Onondaga Skaneate Lambda Electronics Cor 11-11 131 St College Point 56 NY Lambda-Pacific Eng'g 14725 Arminta St Vuand-Air Inc Instrumer 2133 Adams Ave San Leandro Calif	3-9-15-1 puiladelphia 3 Pa ford 1 Conn tronics Corp v P O Box 437 3-4-6-7-8-10-1 3-4-6-9-14-17-18-1 an 1-3-7-9-1 3-4-6-9-14-17-18-1 ork 59 NY 1-2-3-4-5-6-7 1-12-13-14-16-20-2 NJ m Equip Div 3-4-6-19-14 NJ m Equip Div	3-11-12 3-11-12-13 19-20-22 14-17-18 19-20-22 3-11 24 7-8-9-10 12-23-24 1-3 13-11-12 25 25 -6-7-8-9 1-12-13 Div
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James Vibrapowr Co 4050 N Rockwell St Chicago 18 III Jerrold Electronics Cor 23 & Chestnut Sts Ph Kahn & Co 541 Windsor St Hart Kaiser Aircraft & Elect Toledo Electronics Di Toledo Ohio Kato Eng'g Co 1415 I Ave Mankato Minn 1 Katolight Corp Box 891 Mankato Mir Katolight Corp Hart St New Mankato Minn 1 Katolight Corp 1415 I Ave Mankato Minn 1 Kintel (Kay Lab) 5725 Kearny Villa Rd San Diego 12 Calif Kenyon Transformer Cc 840 Barry St New Yc Kepco Labs 131-38 Sanford Ave Flushing NY 11 Keystone Products Co 904 23 St Union City Kinney Mfg Div Vacuu NY Air Brake Co 3529 Washington St E Krohn-Hite Corp 580 Massachusetts Av Cambridge 39 Mass Kurman Electric Co 191 Newel St Brookly Lab Corp E Onondaga Skaneate Lambda Electronics Cor 11-11 131 St College Point 56 NY Lambda-Pacific Eng'g 14725 Arminta St Vac Land-Air Inc Instrume 2133 Adams Ave San Leandro Calif Land-Air Inc 7444 W Wilson Ave Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 N	3-9-15-1  3-9-15-1  3-9-15-1  1-1  3-9-15-1  1-1  3-9-15-1  3-9-15-1  3-1  3-1  3-1  3-1  3-1  3-1  3-1	17-18-25 3-11-12 3 19-20-22 14-17-18 19-20-22 3-11 24 7-8-9-10 12-23-24 1-3 1 3-11-12 25 25 -6-7-8-9 1-12-13 Div 1-12-13
James Vibrapowr Co 4050 N Rockwell St Chicago 18 III Jerrold Electronics Cory 23 & Chestnut Sts Ph Kahn & Co 541 Windsor St Hart Kaiser Aircraft & Elect Toledo Ohio Kato Eng'g Co 1415 I Ave Mankato Minn 1 Katolight Corp Box 891 Mankato Mir Katolight Corp 1415 I Ave Mankato Minn Katolight Corp 1415 I Ave Mankato Minn Kintel (Kay Lab) 5725 Kearny Villa Rd San Diego 12 Calif Kenyon Transformer C 840 Barry St New Yo Kepco Labs 131-38 Sanford Ave Flushing NY 11 Keystone Products Co 904 23 St Union City Kinney Mfg Div Vacuu NY Air Brake Co 3529 Washington St E Krohn-Hite Corp 580 Massachusetts Av Cambridge 39 Mass Kurman Electric Co 1911 Newel St Brookl Lab Corp E Onondaga Skaneat Lambda Electronics Corp 1-11 131 St College Point 56 NY Lambda-Pacific Eng'g 14725 Arminta St Va Land-Air Inc 133 Adams Ave San Leandro Calif Land-Air Inc 1444 W Wilson Ave Langevin Mfg Corp	3-9-15-1  3-9-15-1  3-9-15-1  1-1  3-9-15-1  1-1  3-9-15-1  3-9-15-1  3-1  3-1  3-1  3-1  3-1  3-1  3-1	17-18-25 3-11-12 3 19-20-22 14-17-18 19-20-22 3-11 24 7-8-9-10 22-23-24 1-3 1 3-11-12 25 25 -6-7-8-9 1-12-13 Div 1-12-13 8 8-8-9-1 5-22-24

Leach Corp Inet-Palmer Div	Navco Navigation Computer Corp	Newmarket Rd Cambridge England 16
4441 S Santa Fe Ave 1-2-3-4-9-10-11-12 Los Angeles 58 Calif 14-16-17-18-20	1621 Snyder Ave Philadelphia 45 Pa 2-6-8-11-13	Quantum Electronics Inc
Lear Inc	Nemeth Inc 2223 S Carmelina Ave	Albuquerque N Mex 3-11-12-17-18-22
3171 S Bundy Drive Santa Monica Calif 1-3-7-8-11-12-13-17-18	Los Angeles 64 Calif 8	Quaré Associates Canton Mass
Leeds & Northrup Co	Network Mfg Corp 213 W 5 St Bayonne NJ 1-3-4-6	Proof Floatric Co
4970 Stenton Ave Philadelphia 44 Pa 11 Lee Electric Inc	Networks Electronics Corp	1261 Broadway New 101k 1 111
566 52 St W New York NJ 24 Lee Electric & Mfg Co	14806 Oxnard St Van Nuys Calif 24 Neutronic Associates	3455 Vega Ave Cleveland 13 Ohio 17-18-20-20
2806 Clearwater St	87-16 116 St	Radiation Counter Labs Inc 5121 W Grove St Skokie Ill
Los Angeles 39 Calif 3-6-9-11-12 L E E Inc	Richmond Hill 18 NY 3-4-11-12 Nevada Air Products Co	Radiation Instrument Co P O Box 733 Silver Spring Md 4
COP MIN A MIN Muchington 1 DC 2 11	P O Box 2472 Reno Nev 26	Radio City Products CO
Lehigh Valley Electronics Eng'g & Mfg Co 215 S 3 St Allentown Pa 6	New York Transformer Co 3 Ave Alpha NJ 1-3	Centre & Glendale Sts Easton Pa Radio Corp of America Commercial 2-3-4
Leland Electric Co Division American	N.J.E. Corp	Electronic Products Camden 2 No
Machine & Foundry Co 1501 Webster St Dayton 1 Ohio 1-3-12-17-18-22	345 Carnegie Ave 1-2-3-4-5-6-8-9-10-11-12 Kenilworth NJ 13-14-17-18-19-20-23-24	Radio Eng'g Co 8 State St New York 4 NY 12
Levinthal Electronic Products Inc	Non-Linear Systems Inc	Radionics Inc
3180 Hanover St Palo Alto Calif 3-4-5-7-10-11-12	Del Mar Airport Del Mar Calif 12-17 Norma Hoffmann Bearings Corp	P O Box 186 Cockeysville Md 1-3-4-6-11-12-13-14
Librascope Inc Commercial Div	Walker Div Hamilton Ave	Ram Electronics Inc. 600 Industrial Ave Paramus NJ 4
133 E Santa Anita Ave Burbank Calif 12 Ling Electronics Inc	Stamford Conn 1-2-3-4-9-11-12 North American Instruments Inc	Ramo-Wooldridge Corp
5120 W Jefferson Blvd	2420 N Lake St Altadena Calif 12-13	5730 Arbor Vitae St Los Angeles 45 Calif 3-8-18
Linlar Inc	Northeast Scientific Corp 617 Concord Ave	Rangertone inc
4101 San Fernando Rd Glendale 4 Calif 22 Litton Industries of Calif	Cambridge 38 Mass 2-3-4-5-6-11-12	73 Winthrop St Newark 4 NJ Ransom Research
336 N Foothill Rd	North Electric Co 553 S Market St Galion Ohio 1-3-6	328 W 7 St
Beverly Hills Calif 1-8-11-12-14 Lysco Mfg Co	North Hills Electric Co	Rapid Electric Co
1401 Clinton St Hoboken NJ 1-3-6-9-12	402 Sagamore Ave Mineola LI NY 2-3-4-6-7-11-23	2881 Middletown Rd Bronx 61 NY 3-11
Lytle Eng'g & Mfg Co 1404 San Mateo Blvd SE	Nuclear-Electronics Corp	11116 Cumpston St N Hollywood Calif 17-18
Albuquerque New Mex	2632 W Cumberland St Philadelphia 32 Pa 3-11-12-14	Raypar Inc 7800 W Addison St Chicago 34 Ill 24
McDowell Electronics Inc 105 Forrest St Metuchen NJ 3-4-6-12	Oak Mfg Co 1260 N Clybourn Ave Chicago 10 III 15-25	Raytheon Mfg Co
Macarr Inc 2543 Boston Rd New York 67 NY 3-6	Oltronix Corp	Podmond Co
Mack Electronics Div Mack Trucks Inc	285 Underwood Dr Atlanta 5 Ga 3-4-5-11-12 Onan & Sons D W	Owosso Mich
40 Leon St Boston 15 Mass 2-12-22 Magnetic Amplifiers Inc	2515 University Ave	Reed & Reese Inc. 717 N Lake Ave Pasadena 6 Calif. 1-8
622 Tinton Ave	S E Minneapolis 14 Minn 1-3-9-10-11-12 Oregon Electronic Mfg Co	Reeves Instrument Corp 215 E 91 St New York 28 NY 2-8
New York 55 NY 1-2-3-6-11-13-16-23-24 Magnetic Research Corp	2105 S E 6 Ave	Reflectione Corp
3160 W El Segundo Blvd	Portland 14 Ore 2-3-4-6-11-12-13-14 Otis Elevator Co Electronic Div	Boston Post Rd Stamford Conn 1-3-11-14 Reliance Electric & Eng'g Co
Majestic Int'l Corp	35 Ryerson St	24701 Euclid Ave
79 Washington St Brooklyn 1 NY 11 Mallory & Co Inc P R	Brooklyn 5 NY 4-6-8-9-10-11-12 Owen Labs Inc	Research Electronics Lab
42 S Gray St Indianapolis 6 Ind 3-25	55 Beacon Pl Pasadena Calif 3-6-11-12	Roslyn Pa
Manson Laboratories Inc 207 Greenwich Ave	Packard Bell Electronics Corp 12333 W Olympic Blvd	Research Specialties Co 2005 Hopkins St Berkeley 7 Calif
Stamford Conn 1-3-4-5-7-9-10-11-12	Los Angeles 64 Calif 2-8-11-24	Rheem Mfg Co Electronics Div 1-3-4-6 7777 Industry Ave Rivera Calif 11-13-24
Matthew Labs 146 Riverdale Ave	Peerless Electrical Products 1515 S Manchester Ave	Riverbank Labs Eng'g Dept
Yonkers NY 3-4-6-11-12-13-23	Anaheim Calif 4	P O Box 65 Geneva III 12-14 Rixon Electronics Inc
Maxson Instruments Div W L Maxson Corp 47-37 Austell Pl Long Island City 1 NY 16-24	Pegasus Labs Inc 3690 W 11 Mile Rd Berkley Mich 12	2414 Reedie Dr Silver Spring Md 2-6-13-23
Measurement Eng'g Ltd 232 John St Arnprior Ontario Can 3-11-12	Perkin Eng'g Corp	Robbins & Myers Inc 1345 Lagonda Ave Springfield Ohio 19
Melco Products Inc	345 Kansas St El Segundo Calif 1-2-3-10-11	RS Electronics Corp
301 5 Ave S Minneapolis 15 Minn 2-3-4-5-6-7-8-10-11-12-13	Perma-Power Co 3102 N Elston Ave Chicago 18 Ill 3	435 Portage Ave Palo Alto Calif Sangamo Electric Co Springfield III 10-12-13-18-20
Managery Fleetronic Co	Permoflux Products Co.	Sangamo Electric Co 1-3-4-6-8-9 Sangamo Electric Co 1-3-4-6-8-9 10-12-13-18-20
Box 450 B 1-2-3-6-7-8-9-10-11-12 Red Bank NJ 13-14-17-18-19-20-24	4101 San Fernando Rd 1-3-4-6-8-9-11- Glendale 4 Calif 12-13-17-18-22	Saratoga Industries
Microtan Co 145 E Mineola Ave Valley Stream NY 24	Peschel Electronics Inc	Congress & Ballston Aves Saratoga Springs NY 11-23-24
Microwave Associates Inc	13 Garden St 1-2-3-4-5-6-7 New Rochelle NY 8-9-10-11-12	Schauer Mfg Corp
Burlington Mass 18 Mid-Century Instrumatic Corp	Philbrick Researches Inc George A	Schulmerich Electronics Inc
611 Broadway New York 12 NY 2-3-11	230 Congress St Boston 10 Mass 2-3-11 Phoenix Precision Instrument Co	Sellersville Pa
Milgo Electronic Corp 7601 N W 37 Ave Miami 47 Fla 2-3	3803 N 5 St Philadelphia 40 Pa 4	Scientific Electric 105 Monroe St
Millen Mfg Co James	Pioneer Gen-E-Motor Corp 5841 W Dickens Ave	Garfield NJ 1-3-4-6-11-12-14 Sel-Rex Corp
150 Exchange St Malden 48 Mass 3-4 Miller Co Sanford	Chicago 39 Ill 1-3-9-11 Plastic Capacitors Inc	155 Manchester Pl
691 Bedford Ave Brooklyn 6 NY 3-6	2620 N Clybourn Ave	Newark 4 NJ 3-4-6-11-17-20 Seneca Falls Machine Co
Minn-Honeywell Regulator Co Ordnance Div	Chicago 14 Ill 3-4-6-7-8-11-12-14 Polarad Electronics Corp	314 Fall St Seneca Falls NY
Hopkins Minn 3-8-13-16-17-18-22-24	43-20 34 St Long Island City 1 NY 3-4-5-7	Service Instruments Corp 171 Official Rd Addison Ill 3-6
Minneapolis-Honeywell Regulator Co Industrial Div Wayne & Windrim Aves	Polytechnic Research & Development Co	Servo Corp of America
Philadelphia 44 Pa 12-15		2020 Jorisho Turnnika
I minacipula	202 Tillary St Brooklyn 1 NY 3-5-7-11 Polytron Eng'g Inc	2020 Jericho Turnpike New Hyde Park NY 2-4-19
Missileonics Inc	202 Tillary St Brooklyn 1 NY 3-5-7-11 Polytron Eng'g Inc P O Box 5024 Middle River 20 Md 13	2020 Jericho Turnpike New Hyde Park NY Servomechanisms Inc
Missileonics Inc P O Box 716 Melbourne Fla Model Eng'g & Mfg Inc	202 Tillary St Brooklyn 1 NY 3-5-7-11 Polytron Eng'g Inc P O Box 5024 Middle River 20 Md 13 Potter Aeronautical Corp P O Box 532 Union NJ 19	2020 Jericho Turnpike New Hyde Park NY Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif Servo-Recording Instruments Inc
Missileonics Inc P O Box 716 Melbourne Fla  12	202 Tillary St Brooklyn 1 NY 3-5-7-11 Polytron Eng'g Inc P O Box 5024 Middle River 20 Md 13 Potter Aeronautical Corp P O Box 532 Union NJ 19 Power Designs Inc	2020 Jericho Turnpike New Hyde Park NY Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz Servo-Tek Products Co
Missileonics Inc P O Box 716 Melbourne Fla Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind Model Rectifier Corp 1065 Utica Ave	202 Tillary St Brooklyn 1 NY 3-5-7-11 Polytron Eng'g Inc P O Box 5024 Middle River 20 Md 13 Potter Aeronautical Corp P O Box 532 Union NJ 19 Power Designs Inc 89-25 130 St Richmond Hill 18 NY 2-3-4-5-6-8-11-12-13	2020 Jericho Turnpike New Hyde Park NY Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz Servo-Tek Products Co 1086 Goille Rd Hawthorne NJ 3-6-11-16-17-24
Missileonies Inc P O Box 716 Melbourne Fla P O Box 716 Melbourne Fla Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-9-12 Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Industries Inc	202 Tillary St Brooklyn 1 NY 3-5-7-11 Polytron Eng'g Inc P O Box 5024 Middle River 20 Md 13 Potter Aeronautical Corp P O Box 532 Union NJ 19 Power Designs Inc 89-25 130 St Richmond Hill 18 NY 2-3-4-5-6-8-11-12-13 Power Sources Inc	2020 Jericho Turnpike New Hyde Park NY Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz Servo-Tek Products Co 1086 Gotlle Rd Hawthorne NJ 3-6-11-16-17-24 Shasta Div Beckman Instruments Inc P O Box 296 Station A Richmond Calif 3-6-11
Missileonics Inc P O Box 716 Melbourne Fla Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-9-12 Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY 2-3-6-12-13-17-22 Modern Industries Inc 2601 Colorado Ave 1-2-3-4-6-8-10-11-12	202 Tillary St Brooklyn 1 NY 3-5-7-11 Polytron Eng'g Inc P O Box 5024 Middle River 20 Md 13 Potter Aeronautical Corp P O Box 532 Union NJ 19 Power Designs Inc 89-25 130 St Richmond Hill 18 NY 2-3-4-5-6-8-11-12-13 Power Sources Inc 6 Schouler Ct Arlington 74 Mass 13-18-20 Power Supplies Inc	2020 Jericho Turnpike New Hyde Park NY Servomechanisms Inc 12500 Aviation Blyd Hawthorne Calif Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz Servo-Tek Products Co 1086 Gotlle Rd Hawthorne NJ 3-6-11-16-17-24 Shasta Div Beckman Instruments Inc P O Box 296 Station A Richmond Calif 3-6-11 Shepard Labs Inc
Missileonics Inc P O Box 716 Melbourne Fla Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-9-12 Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY Modern Industries Inc 2601 Colorado Ave Santa Monica Calif 12-16-17-18-20-22-24 Motiograph Inc	202 Tillary St Brooklyn 1 NY 3-5-7-11 Polytron Eng'g Inc P O Box 5024 Middle River 20 Md 13 Potter Aeronautical Corp P O Box 532 Union NJ 19 Power Designs Inc 89-25 130 St Richmond Hill 18 NY 2-3-4-5-6-8-11-12-13 Power Sources Inc 6 Schouler Ct Arlington 74 Mass 13-18-20 Power Supplies Inc 1005 Olive St Highland III 1-2-3-4-6-7-8-9-10-11-12-14	2020 Jericho Turnpike New Hyde Park NY Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz Servo-Tek Products Co 1086 Goffle Rd Hawthorne NJ 3-6-11-16-17-24 Shasta Div Beckman Instruments Inc P O Box 296 Station A Richmond Calif 3-6-11 Shepard Labs Inc 480 Morris Ave Summit NJ 1-2-3-11-14 Sheppard Co R H
Missileonics Inc P O Box 716 Melbourne Fla 12 Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-9-12 Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY 2-3-6-12-13-17-22 Modern Industries Inc 2601 Colorado Ave Santa Monica Calif 12-16-17-18-20-22-24 Motiograph Inc 4441 W Lake St Chicago 24 Ill 1-3	202 Tillary St Brooklyn 1 NY 3-5-7-11 Polytron Eng'g Inc P O Box 5024 Middle River 20 Md 13 Potter Aeronautical Corp P O Box 532 Union NJ 19 Power Designs Inc 89-25 130 St Richmond Hill 18 NY 2-3-4-5-6-8-11-12-13 Power Sources Inc 6 Schouler Ct Arlington 74 Mass 13-18-20 Power Supplies Inc 1005 Olive St Highland Ill Power Transformer Co	2020 Jericho Turnpike New Hyde Park NY Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz 4-13 Servo-Tek Products Co 1086 Goille Rd Hawthorne NJ 3-6-11-16-17-24 Shasta Div Beckman Instruments Inc P O Box 296 Station A Richmond Calif 3-6-11 Shepard Labs Inc 480 Morris Ave Summit NJ 1-2-3-11-14 Sheppard Co R H 101 Philadelphia St Hanover Pa Signalite Inc
Missileonies Ine P O Box 716 Melbourne Fla 12 Model Eng'g & Mfg Ine 50 Frederick St Huntington Ind 1-2-9-12 Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY 2-3-6-12-13-17-22 Modern Industries Inc 2601 Colorado Ave 1-2-3-4-6-8-10-11-12 Santa Monica Calif 12-16-17-18-20-22-24 Motiograph Inc 4441 W Lake St Chicago 24 Ill 1-3 Motoresearch Co 1600 Junction Ave Racine Wis 1-3-6-11-12	202 Tillary St Brooklyn 1 NY 3-5-7-11 Polytron Eng'g Inc P O Box 5024 Middle River 20 Md 13 Potter Aeronautical Corp P O Box 532 Union NJ 19 Power Designs Inc 89-25 130 St Richmond Hill 18 NY 2-3-4-5-6-8-11-12-13 Power Sources Inc 6 Schouler Ct Arlington 74 Mass 13-18-20 Power Supplies Inc 1005 Olive St Highland III 1-2-3-4-6-7-8-9-10-11-12-14 Power Transformer Co 91 Edison Pl Newark 5 NJ 1-3-4-6-11-12-17 Pratt Albert	2020 Jericho Turnpike New Hyde Park NY Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz Servo-Tek Products Co 1086 Goffle Rd Hawthorne NJ 3-6-11-16-17-24 Shasta Div Beckman Instruments Inc P O Box 296 Station A Richmond Calif 3-6-11 Shepard Labs Inc 480 Morris Ave Summit NJ Sheppard Co R H 101 Philadelphia St Hanover Pa Signalite Inc 37 Neptune Hwy Neptune NJ 24
Missileonics Inc P O Box 716 Melbourne Fla Dode Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-9-12 Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY 2-3-6-12-13-17-22 Modern Industries Inc 2601 Colorado Ave 1-2-3-4-6-8-10-11-12 Santa Monica Calif 12-16-17-18-20-22-24 Motiograph Inc 4441 W Lake 441 W Lake St Chicago 24 Ill Motoresearch Co 1600 Junction Ave Racine Wis 1-3-6-11-12 Multi-Amp Corp	202 Tillary St Brooklyn 1 NY 3-5-7-11 Polytron Eng'g Inc P O Box 5024 Middle River 20 Md 13 Potter Aeronautical Corp P O Box 532 Union NJ 19 Power Designs Inc 89-25 130 St Richmond Hill 18 NY 2-3-4-5-6-8-11-12-13 Power Sources Inc 6 Schouler Ct Arlington 74 Mass 13-18-20 Power Supplies Inc 1005 Olive St Highland Ill Power Transformer Co 91 Edison Pl Newark 5 NJ 1-3-4-6-11-12-17 Pratt Albert 114 W Lake View Ave Milwaukee 17 Wis 9	2020 Jericho Turnpike New Hyde Park NY Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz 4-12 Servo-Tek Products Co 1086 Gottle Rd Hawthorne NJ 3-6-11-16-17-24 Shasta Div Beckman Instruments Inc P O Box 296 Station A Richmond Calif 3-6-11 Shepard Labs Inc 480 Morris Ave Summit NJ 1-2-3-11-14 Sheppard Co R H 101 Philadelphia St Hanover Pa Signalite Inc 37 Neptune Hwy Neptune NJ Simplatrol Products Corp 24 Salisbury St Worcester 5 Mass
Missileonics Inc P O Box 716 Melbourne Fla 12 Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-9-12 Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY 2-3-6-12-13-17-22 Modern Industries Inc 2601 Colorado Ave 1-2-3-4-6-8-10-11-12 Santa Monica Calif 12-16-17-18-20-22-24 Motiograph Inc 4441 W Lake St Chicago 24 Ill 1-3 Motoresearch Co 1600 Junction Ave Racine Wis 1-3-6-11-12 Multi-Amp Corp 465 Lehigh Ave Union NJ 1-3-4-6-9-12-13 Multi-Products Co	202 Tillary St Brooklyn 1 NY 3-5-7-11 Polytron Eng'g Inc P O Box 5024 Middle River 20 Md 13 Potter Aeronautical Corp P O Box 532 Union NJ 19 Power Designs Inc 89-25 130 St Richmond Hill 18 NY 2-3-4-5-6-8-11-12-13 Power Sources Inc 6 Schouler Ct Arlington 74 Mass 13-18-20 Power Supplies Inc 1005 Olive St Highland III 1-2-3-4-6-7-8-9-10-11-12-14 Power Transformer Co 91 Edison Pl Newark 5 NJ 1-3-4-6-11-12-17 Pratt Albert 114 W Lake View Ave Milwaukee 17 Wis 9 Precise Development Corp 2 Neil Ct Oceanside NY 1-3-4-6-11-12	2020 Jericho Turnpike New Hyde Park NY Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz Servo-Tek Products Co 1086 Goffle Rd Hawthorne NJ 3-6-11-16-17-24 Shasta Div Beckman Instruments Inc P O Box 296 Station A Richmond Calif 3-6-11 Shepard Labs Inc 480 Morris Ave Summit NJ 1-2-3-11-14 Sheppard Co B H 101 Philadelphia St Hanover Pa Signalite Inc 37 Neptune Hwy Neptune NJ Simplatrol Products Corp 24 Salisbury St Worcester 5 Mass 17 Simpson Mfg Co Mark
Missileonics Inc P O Box 716 Melbourne Fla 12 Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-9-12 Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY 2-3-6-12-13-17-22 Modern Industries Inc 2601 Colorado Ave 1-2-3-4-6-8-10-11-12 Santa Monica Calif 12-16-17-18-20-22-24 Motiograph Inc 4441 W Lake St Chicago 24 Ill 1-3 Motoresearch Co 1600 Junction Ave Racine Wis 1-3-6-11-12 Multi-Amp Corp 465 Lehigh Ave Union NJ 1-3-4-6-9-12-13 Multi-Products Co 21470 Coolidge Hwy Oak Park 37 Mich 6	202 Tillary St Brooklyn 1 NY 3-5-7-11 Polytron Eng'g Inc P O Box 5024 Middle River 20 Md 13 Potter Aeronautical Corp P O Box 532 Union NJ 19 Power Designs Inc 89-25 130 St Richmond Hill 18 NY 2-3-4-5-6-8-11-12-13 Power Sources Inc 6 Schouler Ct Arlington 74 Mass 13-18-20 Power Supplies Inc 1005 Olive St Highland Ill 1-2-3-4-6-7-8-9-10-11-12-14 Power Transformer Co 91 Edison Pl Newark 5 NJ 1-3-4-6-11-12-17 Pratt Albert 114 W Lake View Ave Milwaukee 17 Wis 9 Precise Development Corp	2020 Jericho Turnpike New Hyde Park NY Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz Servo-Tek Products Co 1086 Goffle Rd Hawthorne NJ 3-6-11-16-17-24 Shasta Div Beckman Instruments Inc P O Box 296 Station A Richmond Calif 3-6-11 Shepard Labs Inc 480 Morris Ave Summit NJ 1-2-3-11-14 Sheppard Co R H 101 Philadelphia St Hanover Pa Signalite Inc 37 Neptune Hwy Neptune NJ Simplatrol Products Corp 24 Salisbury St Worcester 5 Mass Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY Skysweeper line
Missileonics Inc P O Box 716 Melbourne Fla 12 Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-9-12 Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY 2-3-6-12-13-17-22 Modern Industries Inc 2601 Colorado Ave 1-2-3-4-6-8-10-11-12 Santa Monica Calif 12-16-17-18-20-22-24 Motiograph Inc 4441 W Lake St Chicago 24 Ill 1-3 Motoresearch Co 1600 Junction Ave Racine Wis 1-3-6-11-12 Multi-Amp Corp 465 Lehigh Ave Union NJ 1-3-4-6-9-12-13 Multi-Products Co 21470 Coolidge Hwy Oak Park 37 Mich Nader Mfg Co 2661 S Myrtle Ave Monrovia Calif 13	202 Tillary St Brooklyn 1 NY 3-5-7-11 Polytron Eng'g Inc P O Box 5024 Middle River 20 Md 13 Potter Aeronautical Corp P O Box 532 Union NJ 19 Power Designs Inc 89-25 130 St Richmond Hill 18 NY 2-3-4-5-6-8-11-12-13 Power Sources Inc 6 Schouler Ct Arlington 74 Mass 13-18-20 Power Supplies Inc 1005 Olive St Highland Ill 1-2-3-4-6-7-8-9-10-11-12-14 Power Transformer Co 91 Edison Pl Newark 5 NJ 1-3-4-6-11-12-17 Pratt Albert 114 W Lake View Ave Milwaukee 17 Wis 9 Precise Development Corp 2 Neil Ct Oceanside NY 1-3-4-6-11-12 Pressman Associates 7803 Farnsworth St Philadelphia 15 Pa 11-13 Press Wireless Labs Inc	2020 Jericho Turnpike New Hyde Park NY Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz 4-13 Servo-Tek Products Co 1086 Goille Rd Hawthorne NJ 3-6-11-16-17-24 Shasta Div Beckman Instruments Inc P O Box 296 Station A Richmond Calif 3-6-11 Shepard Labs Inc 480 Morris Ave Summit NJ 1-2-3-11-14 Sheppard Co R H 101 Philadelphia St Hanover Pa Signalite Inc 37 Neptune Hwy Neptune NJ Simplatrol Products Corp 24 Salisbury St Worcester 5 Mass Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY Skysweeper Inc P O Box 92 McHenry III 1-2-3-4-6-8-12
Missileonics Inc P O Box 716 Melbourne Fla 12 Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-9-12 Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY 2-3-6-12-13-17-22 Modern Industries Inc 2601 Colorado Ave 1-2-3-4-6-8-10-11-12 Santa Monica Calif 12-16-17-18-20-22-24 Motiograph Inc 1441 W Lake St Chicago 24 Ill 1-3 Motoresearch Co 1600 Junction Ave Racine Wis 1-3-6-11-12 Multi-Amp Corp 465 Lehigh Ave Union NJ 1-3-4-6-9-12-13 Multi-Products Co 21470 Coolidge Hwy Oak Park 37 Mich Nader Mfg Co 2661 S Myrtle Ave Monrovia Calif National Aircraft Corp 3411 Tulare Ave 1-2-3-4-5-6-8-10-11-12-	202 Tillary St Brooklyn 1 NY 3-5-7-11 Polytron Eng'g Inc P O Box 5024 Middle River 20 Md 13 Potter Aeronautical Corp P O Box 532 Union NJ 19 Power Designs Inc 89-25 130 St Richmond Hill 18 NY 2-3-4-5-6-8-11-12-13 Power Sources Inc 6 Schouler Ct Arlington 74 Mass 13-18-20 Power Supplies Inc 1005 Olive St Highland III 1-2-3-4-6-7-8-9-10-11-12-14 Power Transformer Co 91 Edison Pl Newark 5 NJ 1-3-4-6-11-12-17 Pratt Albert 114 W Lake View Ave Milwaukce 17 Wis 9 Precise Development Corp 2 Neil Ct Oceanside NY 1-3-4-6-11-12 Pressman Associates 7803 Farnsworth St Philadelphia 15 Pa 11-13 Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass 4 Production Research Corp	2020 Jericho Turnpike New Hyde Park NY Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz 4-13 Servo-Tek Products Co 1086 Goffle Rd Hawthorne NJ 3-6-11-16-17-24 Shasta Div Beckman Instruments Inc P O Box 296 Station A Richmond Calif 3-6-11 Shepard Labs Inc 480 Morris Ave Summit NJ 1-2-3-11-14 Sheppard Co R H 101 Philadelphia St Hanover Pa Signalite Inc 37 Neptune Hwy Neptune NJ Simplatrol Products Corp 24 Salisbury St Worcester 5 Mass 17 Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY Skysweeper Inc P O Box 92 McHenry Ill 1-2-3-4-6-8-12 Slaughter Co Young & College Sts Piqua 9 Ohio 1-8-4-6-12
Missileonies Inc P O Box 716 Melbourne Fla 12 Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-9-12 Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY 2-3-6-12-13-17-22 Modern Industries Inc 2601 Colorado Ave 1-2-3-4-6-8-10-11-12 Santa Monica Calif 12-16-17-18-20-22-24 Motiograph Inc 444 W Lake St Chicago 24 Ill 1-3 Motoresearch Co 1600 Junction Ave Racine Wis 1-3-6-11-12 Multi-Amp Corp 465 Lehigh Ave Union NJ 1-3-4-6-9-12-13 Multi-Products Co 21470 Coolidge Hwy Oak Park 37 Mich Nader Mfg Co 2661 S Myrtle Ave Monrovia Calif 13 National Aircraft Corp 3411 Tulare Ave Burbank Calif 13-14-17-18-19-23-24	202 Tillary St Brooklyn 1 NY 3-5-7-11 Polytron Eng'g Inc P O Box 5024 Middle River 20 Md 13 Potter Aeronautical Corp P O Box 532 Union NJ 19 Power Designs Inc 89-25 130 St Richmond Hill 18 NY 2-3-4-5-6-8-11-12-13 Power Sources Inc 6 Schouler Ct Arlington 74 Mass 13-18-20 Power Supplies Inc 1005 Olive St Highland III 1-2-3-4-6-7-8-9-10-11-12-14 Power Transformer Co 91 Edison Pl Newark 5 NJ 1-3-4-6-11-12-17 Pratt Albert 114 W Lake View Ave Milwaukee 17 Wis 9 Precise Development Corp 2 Neil Ct Oceanside NY 1-3-4-6-11-12 Press Mireless Labs Inc 25 Prospect Pl W Newton 65 Mass 4 Production Research Corp Thornwood NY 2-3-4-5-6-8-10-11-12-13-21	2020 Jericho Turnpike New Hyde Park NY Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz 4-12 Servo-Tek Products Co 1086 Goille Rd Hawthorne NJ 3-6-11-16-17-24 Shasta Div Beckman Instruments Inc P O Box 296 Station A Richmond Calif 3-6-11 Shepard Labs Inc 480 Morris Ave Summit NJ 1-2-3-11-14 Sheppard Co R H 101 Philadelphia St Hanover Pa Signalite Inc 37 Neptune Hwy Neptune NJ Simplatrol Products Corp 24 Salisbury St Worcester 5 Mass Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY Skysweeper Inc P O Box 92 McHenry Ill 1-2-3-4-6-8-12 Slaughter Co Voung & College Sts Piqua 9 Ohio 1-3-4-6-12 Sola Electric Co 4633 W 16 St Chicago 50 Ill 2-11-12-24
Missileonies Ine P O Box 716 Melbourne Fla 12 Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-9-12 Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY 2-3-6-12-13-17-22 Modern Industries Inc 2601 Colorado Ave 1-2-3-4-6-8-10-11-12 Santa Monica Calif 12-16-17-18-20-22-24 Motiograph Inc 4441 W Lake St Chicago 24 Ill 1-3 Motoresearch Co 1600 Junction Ave Racine Wis 1-3-6-11-12 Multi-Amp Corp 465 Lehigh Ave Union NJ 1-3-4-6-9-12-13 Multi-Products Co 21470 Coolidee Hwy Oak Park 37 Mich Nader Mfg Co 2661 S Myrtle Ave Monrovia Calif 13 National Aircraft Corp 3411 Tulare Ave 1-2-3-4-5-6-8-10-11-12-	202 Tillary St Brooklyn 1 NY 3-5-7-11 Polytron Eng'g Inc P O Box 5024 Middle River 20 Md 13 Potter Aeronautical Corp P O Box 532 Union NJ 19 Power Designs Inc 89-25 130 St Richmond Hill 18 NY 2-3-4-5-6-8-11-12-13 Power Sources Inc 6 Schouler Ct Arlington 74 Mass 13-18-20 Power Supplies Inc 1005 Olive St Highland III 1-2-3-4-6-7-8-9-10-11-12-14 Power Transformer Co 91 Edison Pl Newark 5 NJ 1-3-4-6-11-12-17 Pratt Albert 114 W Lake View Ave Milwaukce 17 Wis 9 Precise Development Corp 2 Neil Ct Oceanside NY 1-3-4-6-11-12 Pressman Associates 7803 Farnsworth St Philadelphia 15 Pa 11-13 Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass 4 Production Research Corp	2020 Jericho Turnpike New Hyde Park NY Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz 4-13 Servo-Tek Products Co 1086 Goille Rd Hawthorne NJ 3-6-11-16-17-24 Shasta Div Beckman Instruments Inc P O Box 296 Station A Richmond Calif 3-6-11 Shepard Labs Inc 480 Morris Ave Summit NJ 1-2-3-11-14 Sheppard Co R H 101 Philadelphia St Hanover Pa Signalite Inc 37 Neptune Hwy Neptune NJ Simplatrol Products Corp 24 Salisbury St Worcester 5 Mass 17 Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY Skysweeper Inc P O Box 92 McHenry III 1-2-3-4-6-8-12 Slaughter Co Young & College Sts Piqua 9 Ohio 1-3-4-6-12

73 S State Rd Upper Darby Pa 3-6-12-13	1611 Trapelo Rd Waltham 54 Mass 1-5-7-14	123A N Main St Brockton Mass 11-1
Sorensen & Co Stamford Conn	Vibration Research Labs 97 Lake Ave Tuckahoe NY 1-3-4-6-15-22-25	Allen-Bradley Co 136 W Greenfield Ave Milwaukee 4 Wis 18-2
Sorensen & Co. 1-2-3-4-6-8-11-12	Victoreen Instrument Co	Allied Allegri Co
Richards Ave Norwalk Conn 13-14-19-24 Specialty Eng'g Electronics Co	5806 Hough Ave Cleveland 3 Ohio 24 Virginia Electronics Co	141 River Rd
79 Clifton Pl Brooklyn 38 NY 11-24	River Rd & B&O RR	Nutley 10 NJ 4-5-6-7-8-16-2 Allied Engraving & Stamping Co
Specific Electronics 570 W Woodbury Rd Altadena Calif 6-8-12	Washington 16 DC 3-4-6-9-11-12	17 Eim St Buffalo 3 NY
Spellman TV Co	Vokar Corp 7300 Huron River Dr Dexter Mich 25	Alpha Metals Inc 56 Water St Jersey City 4 NJ 1:
3029 Webster Ave New York 67 NY 3-4-6-8-11-26	Voron & Co George	56 Water St Jersey City 4 NJ 19 Alto Scientific Co
Sperry Gyroscope Co. Div Sperry Rand Corp	835 N 19 St Philadelphia 30 Pa 3-11-12 Wacline Inc	855 Commercial St Palo Alco Calif 1
Great Neck NY 5-7 Spivey Inc James S	35 S St Clair St Dayton 2 Ohio 12-14-24	Alwac Corp 13040 S Cerise Hawthorne Calif 4-7-1
4908 Hampden Lane Washington 14 DC 1-12	Waco Inc 2032 Broadway Santa Monica Calif 6-12	Amelco Inc
Standard Electric Time Co	Wallson Associates Ltd	2040 Colo Ave Santa Monica Calif 20 American Condenser Corp
89 Logan St Springfield 2 Mass 3 Standard Electrical Products Co	963 Frelinghuysen Ave Newark 12 NJ 1-2-3-4-5-6-11-12-13-24	4410 N Ravenswood Ave Chicago 40 Ill
2240 E 3 St Dayton 3 Ohio 12-24	Warren Mfg Co	American Electronic Laboratories 121 N 7 St Philadelphia 6 Pa 13
Standard Electronics Div Radio Eng'g Labs 30th & Borden Sts	Newton Rd Littleton Mass 11-13-16-23-24 Wave Particle Corp	American Printed Circuits Co
Long Island City NY 1-3-4-5-6-11-12-24	P O Box 252 Menlo Park Calif 7-11-12	104 Forrest St Metuchen NJ 5-7-1 Amphenol Electronics Corp
Stelma Inc 190 Henry St Stamford Conn 11-21	Weltronic Co 19500 W 8 Mile Rd Detroit 19 Mich 24	1830 S 54 Ave Chicago 50 Ill
Stevens-Arnold Inc	Westbury Electronics Inc	AMP Inc
7 Elkins St South Boston 27 Mass 15-18 Stewart Warner Electronics Div	200 Shames Dr Westbury NY 11-12 West Coast Research Corp	Harrisburg Pa 1: AMP Inc Chemical Dielectrics Div
1300 N Kostner Ave	2371 1/2 Westwood Blvd	155 Park St Elizabethtown Pa 13
Chicago 51 Ill 1-2-3-4-5-7-8-10-13-14 Strong Electric Corp	Los Angeles 64 Calif 2-3-4-6-8-12-13	Anderson & Sons N Elm St Westfield Mass 4-7-2:
87 City Park Ave Toledo 1 Ohio 3-6	Western Gear Corp Electro Products Div 132 W Colorado St	Andrew Corp
Stow Mfg Co 443 State St Binghamton NY 25	Pasadena 1 Calif 1-3-8-22-24	363 E 75 St Chicago 19 III
Superior Electric Co	Westinghouse Electric Corp P O Box 868 Pittsburgh 30 Pa 17-18	Ansley Mfg Co Arthur New Hope Pa 4-5-7-16
83 Laurel St Bristol Conn 1-3-6-11-16-24 Sylvania Electric Products Inc	Wheeler Insulated Wire Co	Anton Electronic Labs
1740 Broadway New York 19 NY 5	150 E Aurora St Waterbury 20 Conn 12 White Electron Devices Inc Roger	1226 Flushing Ave Brooklyn 6 NY 9-23 Applegate & Co CJ
Systron Corp 2055 Concord Blvd Concord Calif 20	92 4 Ave Haskell NJ 7-12	1840 24 St Boulder Colo
Tarc Electronics Inc	Wickes Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ 3-11	Astron Corp 255 Grant Ave E Newark NJ
48 Urban Ave Westbury LI NY 3-4-11-12-23 Tarzian Inc Sarkes	Wilmar Mfg Co	Automation Components Inc
E Hillside Drive Bloomington Ind 11	1110 Truman Rd Kansas City Mo 11 Wincharger Corp	875 Hickory St Peckville Pa Autron Eng'g Inc
Technical Measurement Corp 140 State St New Haven 11 Conn 4-11	E 7 & Division St	1254 W 6 St Los Angeles 17 Calif 16
Telechrome Mfg Corp	Sioux City 2 Iowa 1-3-4-6-10-11-17-18-20-22 Winder Aircraft Corp of Florida	Avion Div ACF Industries Inc 11 Park Pl Paramus NJ 4-6-
28 Ranick Dr Amityville LI NY 1-3-4-6-11-12-16-23	P O Box 2397 Drane Field	Avionics Ltd P O Box 200 Niagara-on-the-Lake
Telectro Industries Corp	Lakeland Fla 17-18-20 Winpower Mfg Co	Untario Canada 4-5-6-7-8-17-19-29
35-18 37 St 1-2-3-6-7-8-9-10 Long Island City 1 NY 11-12-1::-14	Newton Iowa 1-3-11-12	Axel Electronics 134-20 Jamaica Ave Jamaica 18 NY 15
Tele-Dynamics Inc	40 DDINTED CIRCUITS	Baird-Atomic Inc
32 & Walnut Sts Philadelphia 4 Pa 12 Telemeter Magnetics Inc	68—PRINTED CIRCUITS	33 University Rd Cambridge 38 Mass 16 Baker & Co
2245 Pontius Ave Los Angeles 64 Calif 20 Telephonics Corp	Capacitors, fixed 1	113 Astor St Newark 2 NJ Barker & Williamson Inc
Park Ave Huntington LI NY 10	Capacitors, variable	Canal & Beaver Sts Bristol Pa 13-14
Park Ave Huntington LI NY Teletronics Lab Inc	Capacitors, variable	Canal & Beaver Sts Bristol Pa 13-14 Bart Mfg Corp
Park Ave Huntington LI NY Teletronics Lab Inc 54 Kinkel St Westbury NY Telkor Inc	Capacitors, variable	Canal & Beaver Sts Bristol Pa 13-14 Bart Mfg Corp 227 Main St Belleville NJ 5 Bead Chain Mfg Co
Park Ave Huntington LI NY 10 Teletronics Lab Inc 54 Kinkel St Westbury NY 3-11-12-13 Telkor Inc N Murray Ridge Rd Elyria Ohio 1-3-6-11-12-17-18-19-22	Capacitors, variable	Canal & Beaver Sts Bristol Pa 13-14 Bart Mfg Corp 227 Main St Belleville NJ Bead Chain Mfg Co 110 Mountain Grove St Bridgeport 5 Copp. 17
Park Ave Huntington LI NY 10 Teletronics Lab Inc 54 Kinkel St Westbury NY 3-11-12-13 Telkor Inc N Murray Ridge Rd Elyria Ohio 1-3-6-11-12-17-18-19-22 Tel-Instrument Electronics Corp	Capacitors, variable 2 Circuits, embossed 3 Circuits, etched 4 Circuits, plated 5 Circuits, potted 6	Canal & Beaver Sts Bristol Pa 13-14 Bart Mfg Corp 227 Main St Belleville NJ 5 Bead Chain Mfg Co 110 Mountain Grove St Bridgeport 5 Conn 17 Beck's Inc 298 E 5 St St Paul 1 Minn 3-4-5-6-7-11-16
Park Ave Huntington LI NY         10           Teletronics Lab Inc         54 Kinkel St Westbury NY         3-11-12-13           Telkor Inc         N Murray Ridge Rd           Elyria Ohio         1-3-6-11-12-17-18-19-22           Tel-Instrument Electronics Corp         728 Garden St Carlstadt NJ         14-19           Terado Co         14-19	Capacitors, variable 2 Circuits, embossed 3 Circuits, etched 4 Circuits, plated 5 Circuits, potted 6 Circuits, printed 7	Canal & Beaver Sts Bristol Pa 13-14 Bart Mfg Corp 227 Main St Belleville NJ 5 Bead Chain Mfg Co 110 Mountain Grove St Bridgeport 5 Conn 17 Beck's Inc 298 E 5 St St Paul 1 Minn 3-4-5-6-7-11-16 Bel Fuse Inc
Park Ave Huntington LI NY       10         Teletronics Lab Inc       54 Kinkel St Westbury NY       3-11-12-13         Telkor Inc       N Murray Ridge Rd         Elyria Ohio       1-3-6-11-12-17-18-19-22         Tel-Instrument Electronics Corp       728 Garden St Carlstadt NJ       14-19         Terado Co       1068 Raymond Ave St Paul 14 Minn       18-20	Capacitors, variable 2 Circuits, embossed 3 Circuits, etched 4 Circuits, plated 5 Circuits, potted 6 Circuits, printed 7 Circuits, stamped 8 Connectors 9	Canal & Beaver Sts Bristol Pa 13-14 Bart Mfg Corp 227 Main St Belleville NJ 5 Bead Chain Mfg Co 110 Mountain Grove St Bridgeport 5 Conn 17 Beck's Inc 298 E 5 St St Paul 1 Minn 3-4-5-6-7-11-16 Bel Fuse Inc 311 Mountain Rd Union City NJ 10 Bendix Aviation Corp Bendix Radio Div
Park Ave Huntington LI NY 10 Teletronics Lab Inc 54 Kinkel St Westbury NY 3-11-12-13 Telkor Inc N Murray Ridge Rd Elyria Ohio 1-3-6-11-12-17-18-19-22 Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ 14-19 Terado Co 1068 Raymond Ave St Paul 14 Minn 18-20 Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas 13-22	Capacitors, variable       2         Circuits, embossed       3         Circuits, etched       4         Circuits, plated       5         Circuits, potted       6         Circuits, printed       7         Circuits, stamped       8         Connectors       9         Delay lines       10	Canal & Beaver Sts Bristol Pa 13-14 Bart Mfg Corp 227 Main St Belleville NJ 5 Bead Chain Mfg Co 110 Mountain Grove St Bridgeport 5 Conn 17 Beck's Inc 298 E 5 St St Paul 1 Minn 3-4-5-6-7-11-16 Bel Fuse Inc 311 Mountain Rd Union City NJ 10 Bendix Aviation Corp Bendix Radio Div East Joppa Rd Towson 4 Md 7-16 Berg Mfg Corp
Park Ave Huntington LI NY         10           Teletronics Lab Inc         54 Kinkel St Westbury NY         3-11-12-13           Telkor Inc         N Murray Ridge Rd           Elyria Ohio         1-3-6-11-12-17-18-19-22           Tel-Instrument Electronics Corp         728 Garden St Carlstadt NJ         14-19           Terado Co         1068 Raymond Ave St Paul 14 Minn         18-20           Texas Instruments Inc         6000 Lemmon Ave Dallas 9 Texas         13-22           Texas Instruments Inc Industrial	Capacitors, variable 2 Circuits, embossed 3 Circuits, etched 4 Circuits, plated 5 Circuits, potted 6 Circuits, printed 7 Circuits, stamped 8 Connectors 9 Delay lines 10 Laminates, copper 11	Canal & Beaver Sts Bristol Pa Bart Mfg Corp 227 Main St Belleville NJ Bead Chain Mfg Co 110 Mountain Grove St Bridgeport 5 Conn 17 Beck's Inc 298 E 5 St St Paul 1 Minn 3-4-5-6-7-11-16 Bel Fuse Inc 311 Mountain Rd Union City NJ Bendix Aviation Corp Bendix Radio Div East Joppa Rd Towson 4 Md Berg Mfg Corp 142 Reno St New Cumberland Pa
Park Ave Huntington LI NY 10 Teletronics Lab Inc 54 Kinkel St Westbury NY 3-11-12-13 Telkor Inc N Murray Ridge Rd Elyria Ohio 1-3-6-11-12-17-18-19-22 Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ 14-19 Terado Co 1068 Raymond Ave St Paul 14 Minn 18-20 Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas 13-22 Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo Speedway Houston 5 Texas 13-22	Capacitors, variable 2 Circuits, embossed 3 Circuits, etched 4 Circuits, plated 5 Circuits, potted 6 Circuits, printed 7 Circuits, stamped 8 Connectors 9 Delay lines 10 Laminates, copper 11 Metal clad sheets 12	Canal & Beaver Sts Bristol Pa 13-14 Bart Mfg Corp 227 Main St Belleville NJ 55 Bead Chain Mfg Co 110 Mountain Grove St Bridgeport 5 Conn 17 Beck's Inc 298 E 5 St St Paul 1 Minn 3-4-5-6-7-11-16 Bel Fuse Inc 311 Mountain Rd Union City NJ 10 Bendix Aviation Corp Bendix Radio Div East Joppa Rd Towson 4 Md 7-16 Berg Mfg Corp 142 Reno St New Cumberland Pa 9 Berkshire Labs 586 Bank Village Greenville NH 6-16
Park Ave Huntington LI NY 10 Teletronics Lab Inc 54 Kinkel St Westbury NY 3-11-12-13 Telkor Inc N Murray Ridge Rd Elyria Ohio 1-3-6-11-12-17-18-19-22 Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ 14-19 Terado Co 1068 Raymond Ave St Paul 14 Minn 18-20 Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas 13-22 Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo Speedway Houston 6 Texas 13 Textran Corp	Capacitors, variable 2 Circuits, embossed 3 Circuits, etched 4 Circuits, plated 5 Circuits, potted 6 Circuits, printed 7 Circuits, stamped 8 Connectors 9 Delay lines 10 Laminates, copper 11 Metal clad sheets 12 Networks, directional antenna	Canal & Beaver Sts Bristol Pa Bart Mfg Corp 227 Main St Belleville NJ Bead Chain Mfg Co 110 Mountain Grove St Bridgeport 5 Conn 17 Beck's Inc 298 E 5 St St Paul 1 Minn 3-4-5-6-7-11-16 Bel Fuse Inc 311 Mountain Rd Union City NJ Bendix Aviation Corp Bendix Radio Div East Joppa Rd Towson 4 Md Berg Mfg Corp 142 Reno St New Cumberland Pa Berkshire Labs 586 Bank Village Greenville NH 6-16
Park Ave Huntington LI NY         10           Teletronics Lab Inc         54 Kinkel St Westbury NY         3-11-12-13           Telkor Inc         N Murray Ridge Rd           Elyria Ohio         1-3-6-11-12-17-18-19-22           Tel-Instrument Electronics Corp         728 Garden St Carlstadt NJ         14-19           Terado Co         1068 Raymond Ave St Paul 14 Minn         18-20           Texas Instruments Inc         6000 Lemmon Ave Dallas 9 Texas         13-22           Texas Instruments Inc Industrial         Instrumentation Div 3609 Buffalo           Speedway Houston 6 Texas         13           Textran Corp         Box 4252 Austin 51 Texas         12           TKM Electric Corp         12	Capacitors, variable   2	Canal & Beaver Sts Bristol Pa 13-14 Bart Mfg Corp 227 Main St Belleville NJ 55 Bead Chain Mfg Co 110 Mountain Grove St Bridgeport 5 Conn 17 Beck's Inc 298 E 5 St St Paul 1 Minn 3-4-5-6-7-11-16 Bel Fuse Inc 311 Mountain Rd Union City NJ 10 Bendix Aviation Corp Bendix Radio Div East Joppa Rd Towson 4 Md 7-16 Berg Mfg Corp 142 Reno St New Cumberland Pa 9 Berkshire Labs 586 Bank Village Greenville NH 6-16 Bestcraft Products Co 626 Broadway New York 12 NY 22
Park Ave Huntington LI NY Teletronics Lab Inc 54 Kinkel St Westbury NY Telkor Inc N Murray Ridge Rd Elyria Ohio Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ Terado Co 1068 Raymond Ave St Paul 14 Minn 18-20 Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo Speedway Houston 6 Texas Textran Corp Box 4252 Austin 51 Texas TKM Electric Corp 1160 University Ave Rochester 7 NY 18-22	Capacitors, variable       2         Circuits, embossed       3         Circuits, etched       4         Circuits, plated       5         Circuits, potted       6         Circuits, printed       7         Circuits, stamped       8         Connectors       9         Delay lines       10         Laminates, copper       11         Metal clad sheets       12         Networks, directional antenna       phasing         phasing       13         Networks, matching       14         Networks, pulse formina       15	Canal & Beaver Sts Bristol Pa Bart Mfg Corp 227 Main St Belleville NJ Bead Chain Mfg Co 110 Mountain Grove St Bridgeport 5 Conn 17 Beck's Inc 298 E 5 St St Paul 1 Minn 3-4-5-6-7-11-16 Bel Fuse Inc 311 Mountain Rd Union City NJ Bendix Aviation Corp Bendix Radio Div East Joppa Rd Towson 4 Md Berk Mfg Corp 142 Reno St New Cumberland Pa Berkshire Labs 586 Bank Village Greenville NH Bestcraft Products Co 626 Broadway New York 12 NY Bios Labs Inc 17 W 60 St New York 23 NY
Park Ave Huntington LI NY  Teletronics Lab Inc  54 Kinkel St Westbury NY  Telkor Inc  N Murray Ridge Rd Elyria Ohio  Tel-Instrument Electronics Corp  728 Garden St Carlstadt NJ  Terado Co  1088 Raymond Ave St Paul 14 Minn  18-20  Texas Instruments Inc  6000 Lemmon Ave Dallas 9 Texas  Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo Speedway Houston 6 Texas  Textran Corp  Box 4252 Austin 51 Texas  TKM Electric Corp  1160 University Ave Rochester 7 NY  Tracerlab Inc	Capacitors, variable 2 Circuits, embossed 3 Circuits, etched 4 Circuits, plated 5 Circuits, potted 6 Circuits, printed 7 Circuits, stamped 8 Connectors 9 Delay lines 10 Laminates, copper 11 Metal clad sheets 12 Networks, directional antenna phasing 13 Networks, matching 14 Networks, muster forming 15 Plug-in circuit units 16	Canal & Beaver Sts Bristol Pa 13-14 Bart Mfg Corp 227 Main St Belleville NJ 5 Bead Chain Mfg Co 110 Mountain Grove St Bridgeport 5 Conn 17 Beck's Inc 298 E 5 St St Paul 1 Minn 3-4-5-6-7-11-16 Bel Fuse Inc 311 Mountain Rd Union City NJ 6 Bendix Aviation Corp Bendix Radio Div East Joppa Rd Towson 4 Md 7-16 Berx Mfg Corp 142 Reno St New Cumberland Pa 9 Berkshire Labs 586 Bank Village Greenville NH 6-16 Bestcraft Products Co 626 Broadway New York 12 NY 22 Bios Labs Inc 17 W 60 St New York 23 NY 12 Blonder-Tongue Laboratories 9-25 Alling St Newark 2 NJ 14
Park Ave Huntington LI NY         10           Teletronics Lab Inc         54 Kinkel St Westbury NY         3-11-12-13           Telkor Inc         N Murray Ridge Rd         Elyria Ohio         1-3-6-11-12-17-18-19-22           Tel-Instrument Electronics Corp         728 Garden St Carlstadt NJ         14-19           Terado Co         1088 Raymond Ave St Paul 14 Minn         18-20           Texas Instruments Inc         6000 Lemmon Ave Dallas 9 Texas         13-22           Texas Instruments Inc Industrial         Instrumentation Div 3609 Buffalo           Speedway Houston 6 Texas         13           Textran Corp         10           Box 4252 Austin 51 Texas         12           TKM Electric Corp         1160 University Ave Rochester 7 NY         18-22           Tracerlab Inc         1601 Trapelo Rd Waltham 54 Mass         3-12           Trans Electronics Inc	Capacitors, variable 2 Circuits, embossed 3 Circuits, etched 4 Circuits, plated 5 Circuits, potted 6 Circuits, printed 7 Circuits, stamped 8 Connectors 9 Delay lines 10 Laminates, copper 11 Metal clad sheets 12 Networks, directional antenna phasing 13 Networks, matching 14 Networks, pulse forming 15 Plug-in circuit units 16 Plugs 17	Canal & Beaver Sts Bristol Pa Bart Mfg Corp 227 Main St Belleville NJ Bead Chain Mfg Co 110 Mountain Grove St Bridgeport 5 Conn 17 Beck's Inc 298 E 5 St St Paul 1 Minn 3-4-5-6-7-11-16 Bel Fuse Inc 311 Mountain Rd Union City NJ Bendix Aviation Corp Bendix Radio Div East Joppa Rd Towson 4 Md 7-16 Berg Mfg Corp 142 Reno St New Cumberland Pa Berkshire Labs 586 Bank Village Greenville NH Bestcraft Products Co 626 Broadway New York 12 NY Bios Labs Inc 17 W 60 St New York 23 NY Blonder-Tongue Laboratories 9-25 Alling St Newark 2 NJ Bolling Industries Inc
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Park Ave Huntington LI NY 10 Teletronics Lab Inc 54 Kinkel St Westbury NY 3-11-12-13 Telkor Inc N Murray Ridge Rd Elyria Ohio 1-3-6-11-12-17-18-19-22 Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ 14-19 Terado Co 1068 Raymond Ave St Paul 14 Minn 18-20 Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas 13-22 Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo Speedway Houston 6 Texas 12 Textran Corp Box 4252 Austin 51 Texas 12 TKM Electric Corp 1160 University Ave Rochester 7 NY 18-22 Tracerlab Inc 1601 Trapelo Rd Waltham 54 Mass 3-12 Trans Electronics Inc 7349 Canoga Ave Canoga Park Calif	Capacitors, variable 2 Circuits, embossed 3 Circuits, etched 4 Circuits, plated 5 Circuits, potted 6 Circuits, printed 7 Circuits, stamped 8 Connectors 9 Delay lines 10 Laminates, copper 11 Metal clad sheets 12 Networks, directional antenna phasing 13 Networks, matching 14 Networks, pulse forming 15 Plug-in circuit units 16 Plugs 17 Potentiometers 19 Printed circuit equipment 19	Canal & Beaver Sts Bristol Pa 13-14 Bart Mfg Corp 227 Main St Belleville NJ 55 Bead Chain Mfg Co 110 Mountain Grove St Bridgeport 5 Conn 17 Beck's Inc 298 E 5 St St Paul 1 Minn 3-4-5-6-7-11-16 Bel Fuse Inc 311 Mountain Rd Union City NJ 10 Bendix Aviation Corp Bendix Radio Div East Joppa Rd Towson 4 Md 7-16 Berx Mfg Corp 142 Reno St New Cumberland Pa 99 Berkshire Labs 586 Bank Village Greenville NH 6-16 Bestcraft Products Co 626 Broadway New York 12 NY 22 Bios Labs Inc 17 W 60 St New York 23 NY 12 Bionder-Tongue Laboratories 9-25 Alling St Newark 2 NJ 14 Bolling Industries Inc 1117 N Main Ave P O Box 981 Scranton 2 Pa 22 Bond Electronies Corp
Park Ave Huntington LI NY 10 Teletronics Lab Inc 54 Kinkel St Westbury NY 3-11-12-13 Telkor Inc N Murray Ridge Rd Elyria Ohio 1-3-6-11-12-17-18-19-22 Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ 14-19 Terado Co 1068 Raymond Ave St Paul 14 Minn 18-20 Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas 13-22 Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo Speedway Houston 6 Texas 12 Textran Corp Box 4252 Austin 51 Texas 12 TKM Electric Corp 1160 University Ave Rochester 7 NY 18-22 Tracerlab Inc 1601 Trapelo Rd Waltham 54 Mass 3-12 Trans Electronics Inc 7349 Canoga Ave Canoga Park Calif 1-3-6-9-11-12-13-14 Transformer Technicians Inc 2608 N Cicero Ave Chicago 39 III 1-3-4-6 Transitor Electronic Corp	Capacitors, variable 2 Circuits, embossed 3 Circuits, etched 4 Circuits, plated 5 Circuits, potted 6 Circuits, printed 7 Circuits, stamped 8 Connectors 9 Delay lines 10 Laminates, copper 11 Metal clad sheets 12 Networks, directional antenna phasing 13 Networks, matching 14 Networks, pulse forming 15 Plug-in circuit units 16 Plugs 17 Potentiometers 19 Printed circuit equipment 19 Printed circuit soldering	Canal & Beaver Sts Bristol Pa 13-14 Bart Mfg Corp 227 Main St Belleville NJ 5 Bead Chain Mfg Co 110 Mountain Grove St Bridgeport 5 Conn 17 Beck's Inc 298 E 5 St St Paul 1 Minn 3-4-5-6-7-11-16 Bel Fuse Inc 311 Mountain Rd Union City NJ 10 Bendix Aviation Corp Bendix Radio Div East Joppa Rd Towson 4 Md 7-16 Berg Mfg Corp 142 Reno St New Cumberland Pa 99 Berkshire Labs 586 Bank Village Greenville NH 6-16 Bestcraft Products Co 626 Broadway New York 12 NY 12 Bios Labs Inc 17 W 60 St New York 23 NY 12 Blonder-Tongue Laboratories 9-25 Alling St Newark 2 NJ 14 Bolling Industries Inc 1117 N Main Ave P O Box 981 Scranton 2 Pa 19 Bond Electronics Corp 60 Springfield Ave Springfield NJ 19 Bradford Components Inc 112 Bradford Components Inc 112 Bradford Components Inc 120 Bead Chain St Belleville NJ 15 Bead Chain St Belleville NJ 15 Bradford Components Inc 112 Bradford C
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Park Ave Huntington LI NY 10 Teletronics Lab Inc 54 Kinkel St Westbury NY 3-11-12-13 Telkor Inc N Murray Ridge Rd Elyria Ohio 1-3-6-11-12-17-18-19-22 Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ 14-19 Terado Co 1068 Raymond Ave St Paul 14 Minn 18-20 Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas 13-22 Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo Speedway Houston 6 Texas Textran Corp Box 4252 Austin 51 Texas 12 TKM Electric Corp 1160 University Ave Rochester 7 NY 18-22 Tracerlab Inc 1601 Trapelo Rd Waltham 54 Mass 3-12 Trans Electronics Inc 1601 Trapelo Rd Waltham 54 Mass 3-12 Transformer Technicians Inc 2608 N Cicero Ave Chicago 39 III 1-3-4-6 Transitron Electronic Corp 168 Albion St Wakefield Mass 24 Transonic Inc 808 16 St Rekenfald Calif	Capacitors, variable Circuits, embossed Circuits, etched Circuits, plated Circuits, potted Circuits, potted Circuits, printed Circuits, stamped Connectors 9 Delay lines 10 Laminates, copper 11 Metal clad sheets 12 Networks, directional antenna phasing 13 Networks, matching 14 Networks, matching 15 Plug-in circuit units 16 Plugs 17 Potentiometers 19 Printed circuit equipment 19 Printed circuit soldering equipment 20 Resistors 21	Canal & Beaver Sts Bristol Pa 13-14 Bart Mfg Corp 227 Main St Belleville NJ 55 Bead Chain Mfg Co 110 Mountain Grove St Bridgeport 5 Conn 17 Beck's Inc 298 E 5 St St Paul 1 Minn 3-4-5-6-7-11-16 Bel Fuse Inc 311 Mountain Rd Union City NJ 10 Bendix Aviation Corp Bendix Radio Div East Joppa Rd Towson 4 Md 7-16 Berg Mfg Corp 142 Reno St New Cumberland Pa 99 Berkshire Labs 586 Bank Village Greenville NH 6-16 Bestcraft Products Co 626 Broadway New York 12 NY 12 Bios Labs Inc 17 W 60 St New York 23 NY 12 Bionder-Tongue Laboratories 9-25 Alling St Newark 2 NJ 14 Bolling Industries Inc 1117 N Main Ave P O Box 981 Scranton 2 Pa 14 Bond Electronics Corp 60 Springfield Ave Springfield NJ 21 Bradford Components Inc 33-35 Bishop St Bradford Pa 12 Bram Chemical Co Metals & Minerals Div 12 Brafford Components Inc 12 Bram Chemical Co Metals & Minerals Div 12 Brafford Sc Ave Philadelphia 26 Pa 12
Park Ave Huntington LI NY         10           Teletronics Lab Inc         54 Kinkel St Westbury NY         3-11-12-13           Telkor Inc         N Murray Ridge Rd         Elyria Ohio         1-3-6-11-12-17-18-19-22           Tel-Instrument Electronics Corp         728 Garden St Carlstadt NJ         14-19           Terado Co         1068 Raymond Ave St Paul 14 Minn         18-20           Texas Instruments Inc         6000 Lemmon Ave Dallas 9 Texas         13-22           Texas Instruments Inc Industrial         Instrumentation Div 3609 Buffalo         Speedway Houston 6 Texas         13           Textran Corp         Box 4252 Austin 51 Texas         12         TKM Electric Corp         160 University Ave Rochester 7 NY         18-22           Trancerlab Inc         1601 Trapelo Rd Waltham 54 Mass         3-12         Trans Electronics Inc           7349 Canoga Ave         Canoga Park Calif         1-3-6-9-11-12-13-14         Transformer Technicians Inc           2608 N Cicero Ave Chicago 39 III         1-3-4-6         Transiton Electronic Corp           163 Albion St Wakefield Mass         24           Transonic Inc         200 Minute St Makefield Calif         2-3-6-15           Transval Eng'g Corp         10401 W Jefferson Blyd	Capacitors, variable 2 Circuits, embossed 3 Circuits, etched 4 Circuits, plated 5 Circuits, potted 6 Circuits, printed 7 Circuits, stamped 8 Connectors 9 Delay lines 10 Laminates, copper 11 Metal clad sheets 12 Networks, directional antenna phasing 13 Networks, matching 14 Networks, pulse forming 15 Plug-in circuit units 16 Plugs 17 Potentiometers 19 Printed circuit equipment 19 Printed circuit soldering equipment 20 Resistors 21 Silk screen processing 22	Canal & Beaver Sts Bristol Pa 13-14 Bart Mfg Corp 227 Main St Belleville NJ Bead Chain Mfg Co 110 Mountain Grove St Bridgeport 5 Conn 17 Beck's Inc 298 E 5 St St Paul 1 Minn 3-4-5-6-7-11-16 Bel Fuse Inc 311 Mountain Rd Union City NJ Bendix Aviation Corp Bendix Radio Div East Joppa Rd Towson 4 Md 7-16 Berg Mfg Corp 142 Reno St New Cumberland Pa Berkshire Labs 586 Bank Village Greenville NH 6-16 Bestcraft Products Co 626 Broadway New York 12 NY Bios Labs Inc 17 W 60 St New York 23 NY Blonder-Tongue Laboratories 9-25 Alling St Newark 2 NJ Bolling Industries Inc 1117 N Main Ave P O Box 981 Scranton 2 Pa Bond Electronics Corp 60 Springfield Ave Springfield NJ Bradford Components Inc 33-35 Bishop St Bradford Pa Bram Chemical Co Metals & Minerals Div 820 65 Ave Philadelphia 26 Pa Briggs Associates
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Park Ave Huntington LI NY Teletronics Lab Inc 54 Kinkel St Westbury NY 3-11-12-13 Telkor Inc N Murray Ridge Rd Elyria Ohio Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ Telkor 1068 Raymond Ave St Paul 14 Minn 18-20 1068 Raymond Ave St Paul 14 Minn 18-20 1068 Raymond Ave Dallas 9 Texas 13-22 Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas 13-22 Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo Speedway Houston 6 Texas 12 Textran Corp Box 4252 Austin 51 Texas 12 TKM Electric Corp 1160 University Ave Rochester 7 NY 18-22 Tracerlab Inc 1601 Trapelo Rd Waltham 54 Mass 3-12 Trans Electronics Inc 7349 Canoga Ave Canoga Ave Canoga Ave Chicago 39 III 1-3-4-6 Transformer Technicians Inc 2608 N Cicero Ave Chicago 39 III 1-3-4-6 Transformer Technicians Inc 2608 N Cicero Ave Chicago 39 18 1-3-4-6 Transnor Electronic Corp 168 Albion St Wakefield Mass 24 Transor Electronic Corp 169 Albion St Wakefield Mass 1040 Usefferson Blvd Culver City Calif Trott Electronics Inc 412 Smith St Rochester 6 NY 3-6-8-11-12-13 Underwood Corp Electronic Computer Div 35-10 36 Ave Long Island City 6 NY 2 United Electrodynamics 1200 S Marengo Ave Pasadena Calif United Transformer Corp 150 Varick St New York 13 NY 23-24 Universal Electronics Co 1720 22 St Santa Monica Calif 3-6-11 US Dynamics Corp 1250 Columbus Ave Boston 20 Mass 2-3-4-6-7-8-9-11-12-13-23-24 US Instrument Corp P O Box 33E Charlottesville Va Varian Associates 611 Hansen Way Palo Alto Calif	Capacitors, variable Circuits, embossed 3 Circuits, etched 4 Circuits, plated 5 Circuits, potted 6 Circuits, printed 7 Circuits, stamped 8 Connectors 9 Delay lines 10 Laminates, copper 11 Metal clad sheets 12 Networks, directional antenna phasing 13 Networks, matching 14 Networks, pulse forming 15 Plug-in circuit units 16 Plugs 17 Potentiometers 19 Printed circuit equipment 19 Printed circuit soldering equipment 20 Resistors 21 Silk screen processing 22 Sockets 23  Accurate Electronics Corp 169 S Abbe Rd W Elyria Ohio 16 Acoustica Associates Shore Rd Glenwood Landing LI NY Adola Products Ltd Gauden Rd Clapham High St London S W 4 England 20 Adeler Electronics Inc 1 LeFevre Lane New Rochelle NY 13 Aerovax Corp 740 Belleville Ave New Bedford Mass 1-3-1-5-7 Airflyte Electronics Co 535 Avenue A Bayonne NJ 7-16 Air Transport Mfg Co 1114 N Sycamore Ave	Canal & Beaver Sts Bristol Pa 13-14 Bart Mfg Corp 227 Main St Belleville NJ 5 Bead Chain Mfg Co 110 Mountain Grove St Bridgeport 5 Conn 17 Beck's Inc 298 E 5 St St Paul 1 Minn 3-4-5-6-7-11-16 Bel Fuse Inc 311 Mountain Rd Union City NJ 10 Bendix Aviation Corp Bendix Radio Div East Joppa Rd Towson 4 Md 7-16 Berx Mfg Corp 142 Reno St New Cumberland Pa 152 Berkshire Labs 586 Bank Village Greenville NH 6-16 Bestcraft Products Co 626 Broadway New York 12 NY 22 Bios Labs Inc 17 W 60 St New York 23 NY 12 Bolling Industries Inc 1117 N Main Ave P O Box 981 Scranton 2 Pa 22 Bond Electronics Corp 60 Springfield Ave Springfield NJ 21 Bradford Components Inc 33-35 Bishop St Bradford Pa Briggs Associates 10 DeKalb St Norristown Pa 12 Briggs Associates 10 DeKalb St Norristown Pa 12 Briggs Associates 10 DeKalb St Norristown Pa 14 Burgle Electronics Corp 37 Franklin St Buffalo 2 NY 16 Burgle Inc H H P O Box 317 Toledo 1 Ohio 9-17 Burnell & Co 45 Warburton Ave Yonkers NY 10 Burnoughs Corp 6071 2 Ave Detroit 32 Mich 7 Cal-Met Electronics 5860 Spring Oak Dr Hollywood 28 Calif Cannon Electric Co Eastern Div Pingree & Leavitt Sts Salem Mass Capitol Transcription Service 1120-A Conn Ave NW Washington 6 DC 16 Carad Corp 2850 Bay Rd Redwood City Calif 15 Cannon Electric Co Eastern Div Pingree & Leavitt Sts Salem Mass Capitol Transcription Service 1120-A Conn Ave NW Washington 6 DC 16 Carad Corp 2850 Bay Rd Redwood City Calif 50 Carnor Electric Co 2820 Bay Rd Redwood City Calif 50 Carnor Electron Service 1120-A Conn Ave NW Washington 6 DC 16 Carnor Electron Service 1120-A Conn Ave NW Washington 6 DC 16 Carnor Electron Service 1120-A Conn Ave NW Washington 6 DC 16 Carnor Electron Service 1120-A Conn Ave NW Washington 6 DC 16 Carnor Electron Service 1120-A Conn Ave NW Washington 6 DC 16 Carnor Electron Service 1120-A Conn Ave NW Washington 6 DC 16 Carnor Electron Service 1120-A Conn Ave NW Washington 6 DC 16 Carnor Electron Service 1120-A Conn Ave NW Washington 6 DC 16
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Park Ave Huntington LI NY Teletronics Lab Inc 54 Kinkel St Westbury NY 3-11-12-13 Telkor Inc N Murray Ridge Rd Elyria Ohio 1-3-6-11-12-17-18-19-22 Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ 14-19 Terado Co 1068 Raymond Ave St Paul 14 Minn 18-20 Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas 13-22 Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo Speedway Houston 6 Texas 12 Textran Corp Box 4252 Austin 51 Texas 12 TKM Electric Corp 1160 University Ave Rochester 7 NY 18-22 Tracerlab Inc 1601 Trapelo Rd Waltham 54 Mass 3-12 Trans Electronics Inc 7349 Canoga Ave Canoga Park Calif 1-3-6-9-11-12-13-14 Transformer Technicians Inc 2608 N Cicero Ave Chicago 39 III 1-3-4-6 Transitor Electronic Corp 168 Albion St Wakefield Mass 24 Transonic Inc 808 16 St Bakersfield Calif 2-3-6-15 Transval Eng'g Corp 10401 W Jefferson Blvd Culver City Calif Trott Electronics Inc 412 Smith St Rochester 6 NY 3-6-8-11-12-17 Underwood Corp Electronic Computer Div 35-10 36 Ave Long Island City 6 NY 2 United Electrodynamics 1200 S Marengo Ave Pasadena Calif 8-11-13-17-18 United Transformer Corp 150 Variek St New York 13 NY 23-24 Universal Atomics Corp 150 Bond St Universal Electronics Co 1720 22 St Santa Monica Calif 3-6-11 US Dynamics Corp 1250 Columbus Ave Boston 20 Mass 2-3-4-6-7-8-9-10-11-12 Usero Mfg Co  Varian Associates 611 Hansen Way Palo Alto Calif 11	Capacitors, variable Circuits, embossed 3 Circuits, etched 4 Circuits, plated 5 Circuits, potted 6 Circuits, printed 7 Circuits, stamped 8 Connectors 9 Delay lines 10 Laminates, copper 11 Metal clad sheets 12 Networks, directional antenna phasing 13 Networks, matching 14 Networks, pulse forming 15 Plug-in circuit units 16 Plugs 17 Potentiometers 19 Printed circuit equipment 19 Printed circuit equipment 19 Printed circuit soldering equipment 20 Resistors 21 Silk screen processing 22 Sockets 23 Accurate Electronics Corp 169 S Abbe Rd W Elyria Ohio Acoustica Associates Shore Rd Glenwood Landing LI NY Adcola Products Ltd Gauden Rd Clapham High St London S W 4 England 20 Adler Flectronics Inc 1 LeFevre Lane New Rochelle NY 13 Aeronox Corp Pacific Coast Div 2724 S Peck Rd Monrovia Calif 5-6-10 Aerovox Corp 740 Belleville Ave New Bedford Mass 1-3-1-5-7 Airflyte Electronics Co 535 Avenue A Bayonne NJ 7-16 Air Transport Mfg Co 1114 N Sycamore Ave Los Angeles 38 Calif 22	Canal & Beaver Sts Bristol Pa Bart Mfg Corp 227 Main St Belleville NJ Bead Chain Mfg Co 110 Mountain Grove St Bridgeport 5 Conn 17 Beck's Inc 298 E 5 St St Paul 1 Minn 3-4-5-6-7-11-16 Bel Fuse Inc 311 Mountain Rd Union City NJ Bendix Aviation Corp Bendix Radio Div East Joppa Rd Towson 4 Md Berx Mfg Corp 142 Reno St New Cumberland Pa Berkshire Labs 586 Bank Village Greenville NH Bestcraft Products Co 626 Broadway New York 12 NY Bios Labs Inc 17 W 60 St New York 23 NY Blonder-Tongue Laboratories 9-25 Alling St Newark 2 NJ Bolling Industries Inc 1117 N Main Ave P O Box 981 Scranton 2 Pa Bond Electronics Corp 60 Springfield Ave Springfield NJ Bradford Components Inc 33-35 Bishop St Bradford Pa Bram Chemical Co Metals & Minerals 10 DeKalb St Norristown Pa Brubaker Electronics Inc 3652 Eastham Dr Culver City Calif Buffalo Electronics Corp 37 Franklin St Buffalo 2 NY Burgie Inc H H P O Box 317 Toledo 1 Ohio Burnell & Co 45 Warburton Ave Yonkers NY Burroughs Corp 60712 Ave Detroit 32 Mich Cal-Met Electronics 5860 Spring Oak Dr Hollywood 28 Calif Cannon Electric Co 3208 Humboldt St Los Angeles 31 Calif Cannon Electric Co 2308 Humboldt St Los Angeles 31 Calif Cannon Electric Co 2308 Humboldt St Los Angeles 31 Calif Cannon Electric Co 2308 Humboldt St Los Angeles 31 Calif Cannon Electric Co 2450 Bay Rd Redwood City Calif 15 Caraf Co 2550 Bay Rd Redwood City Calif Caraf Co 2676 Box 554 Brookhaven Miss

CG Electronics Corp	Eastern Precision Resistor Corp 675 Barbey St Brooklyn 7 NY 14-21	Good Electric Corp Natick Mass
305 Dallas St NE Albuquerque New Mex 4-5-7	675 Barbey St Brooklyn 7 NY 14-21 Eastman Kodak Co	Gorn Electric Co
Chicago Telephone Co of Calif	343 State St Rochester 4 NY 19	Stamford Conn Graphik Circuits Div Cinch Mfg Corp
105 Pasadena Ave S Pasadena Calif 18	Eastman Pacific Co 2320 E 8 St. Los Angeles 21 Calif 21	200 S Turnbull Canyon Rd
Chicago Telephone Supply Corp 1142 W Beardsley Ave Elkhart Ind 21	2320 E 8 St Los Angeles 21 Calif 21 Eaton Electronics Corp	La Puente Calif 3-4-5-6-7-8-17-19
Cinch Mfg Corp	Moodus Conn 4-5-6-7-16	Gremar Mfg Co
1026 S Homan Ave	Edcliff Instruments	7 North Ave Wakefield Mass Griffin Co John
Chicago 24 Ill 4-5-7-9-17-23	1711 S Mountain Ave Monrovia Calif 18 Elco Corp	2157 James Ave St Paul 5 Minn 8
Circon Component Co Santa Barbara Municipal Airport	M St below Erie Ave	Haloid Co Haloid St. Rochester 3 NY
Goleta Calif 7-9-23	Philadelphia 24 Pa 9-17-23	Haloid St Rochester 3 NY Hansen Electronics Co
Clarostat Mfg Co Washington St Dover NH 18-21	Electralab Inc	7117 Santa Monica Blvd
Washington St Dover NH Clegg Labs Div Clegg Inc	"A" St Needham Heights 94 Mass 3-4-5-7 Electra Mfg Co	Los Angeles 46 Calif 1-4-5-6-7-21
Ridgedale Ave Morristown NJ 15	4051 Broadway Kansas City Mo 21	Hanson-Gorrill-Brian  85 Hazel St. Glen Cove NY
Cleveland Metal Specialties Co	Electrical Specialty Co	85 Hazel St Glen Cove NY 15 Helco Products Corp
1783 E 21 St Cleveland 14 Ohio 4-5-6-7-23	158 11 St San Francisco 3 Calif 11-12	7832 Balboa Blvd Van Nuys Calif 18
Coaxial Connector Co 37 N 2 Ave Mt Vernon NY 9-17	Electronic Fabricators Inc Efcos Div 682 Broadway New York 12 NY 1	Hexacon Electric Co
Collegaft Inc	Electronic Specialty Co	161 W Clay Ave Røselle Park NJ 20 Hi-Q Div Aerovox Corp
Cary Ill	5121 San Fernando Rd	Box 68 Myrtle Beach SC 16-21
Coil Winders Inc New York Ave Westbury I.I NY 6-14-15	Los Angeles 39 Calif 14-15	Holland Electronics
Colline Radio Co	Electron Products Inc 430 N Halstead St Pasadena 8 Calif 1	2133 Central Dr S East Meadow NY Hoover Electronics Co
855 35 St NE Cedar Rapids Iowa 13	Elektro Serv Co	3640 Woodland Ave
Colorado Research Corp 4697 E Evans Ave Denver 22 Colo	480 Johnson Ave Brooklyn 37 NY 4-7	Baltimore 7 Md 4-5-6-7-10-19
Columbia Technical Corp	El-Rad Mfg Co 2800 W Cullom Ave Chicago 18 III 10-14	Hopkins Eng'g Co 12900 Foothill Blvd San Fernando Calif 1
61-02 31 Ave Woodside 77 NY	Emerson & Cuming Inc	Hubbell Inc Harvey
Communication Accessories Co 110 St & 71 Hwy Hickman Milis Mo 14-15	869 Washington St Canton 1 Mass 6	State St & Bostwick Ave
Condenser Products Div New Haven	Emerson Electric Mfg Co	Bridgeport 2 Conn
Clock & Watch Co	8100 Florissant Ave St Louis 21 Mo	Hull-Standard Corp Abington Pa 19
140 Hamilton Bt Item 12010	Rte 38 at Airport Circle	Ideal Industries Inc
Connector Corp 6025 N Keystone Ave Chicago 30 Ill 9	Pennsauken 11 NJ	5127 Park Ave Sycamore Ill 20
Clideted Flootrodynamics COFU	Engineered Electronics Co 506 E 1 St Santa Ana Calif 4-16	Illinois Condenser Co 1616 N Throop St. Chicago 22 Ill 1
300 N Sierra Madre Villa Pasadena Calif 4-1	Engineering Enterprises Inc	Improved Seamless Wire Co
Broward Int'l Airport Ft Lauderdale Fla 6	1200 18 St N W Washington 6 DC 7	775 Eddy St Providence 5 RI 12
Continental Connector Corp	Equip-A-Matic Eng'g Corp	Industrial Condenser Corp 3243 N California Ave Chicago 18 III
34-63 56 St Woodside 77 NY Continental-Diamond Fibre Corp	6045 W Ogden Ave Chicago 50 Ill 19-20 Erie Resistor Corp	Industrial Hardware Mig CO
Newark Dela 11-12	644 W 12 St Erie 6 Pa 1-2-3-7-16-17-21	109 Prince St. New York 12 NY 20
Candanger Mfrs Inc	Erikson Specialized Tool Co	Insulating Fabricators of NE Inc
1018 Pearl St Nashville Tenn	4902 S Lexington Rd Pico 1 Calif 20	69 Grove St Watertown 72 Mass 7-11-12-19-22
Cook Co Frank R 36 S Santa Fe Dr Denver 23 Colo	ESC Corp 534 Bergen Blvd Palisades Park NJ 10-15	Insuline Corp of America
	Essay Electronics Div NYT Electronics Inc	186 Granite St Manchester Nii
3117 Venice Blvd Los Angeles 15 Carr	7303 Atoll Ave N Hollywood Calif	Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa 1-2-21
Cornell-Dubilier Electric Corp 333 Hamilton Blvd E Pannield NJ 1-7-15	Essex Electronics 550 Springfield Ave	Jeffers Electronics Div Speer Carbon Co
Camping Class Works	Berkeley Heights NJ 10-15	Du Bois Pa
Comping NY	Etched Products Corp	JFD Mfg Co 6101-16 Ave Brooklyn 4 NY
Corson Electric Mfg Corp 540 39 St Union City NJ 15	39-01 Queens Blvd	Jodee Plastics Co
Constitut Mfc CO	Long Island City 4 NY 4-5-7-8 Farley & Loetscher Mfg Co Plastics Div	213 Shepherd Ave Brooklyn 8 NY 22
1615 Collamer Ave Cleveland 10 Ohio 19	7 & White Ste Dubuque Iowa 12	Johnson Co E F
Croname Inc	Federal Telephone & Radio Co Div 11&1	Johnson Electronics Inc
3701 Ravenswood Ave Chicago 13 Ill 4-5-7-22	100 Kingsland Rd Clifton NJ 4-7-8	521 Elwell St Orlando Fla
Cudner & O'Connor Co	Federal Tool & Mfg Co 3600 Alabama Ave Minneapo'is 16 Minn 7-8	Johnston Foil Mfg Co
4035 W Kinzie St Chicago 24 III	Filtron Co	The Flortronics Hiram
Dale Boisen Co	10023 W Jefferson Blvd	2313 W Olive St. Burbank Calif 4-5-1-11-25
2928 Nebraska Ave Santa Monica Calif 4-5-6-7-11-12-16	Culver City Calif Filtron Co	Trail Engle Products Co
Dale Products Inc	131-15 Fowler Ave Flushing 55 NY 15	4356 Duncan Ave St Louis 10 Mo 4-3-0-1-11
Columbus Nebr 5-6-7-14-18-19-21	Fluorocarbon Products Inc Div U S	Kennedy Industries 680-8 Vista del Mar Playa del Rey Calif 9
Daven Co Route 10 Livingston NJ 14-15-18-21	Gasket Co 602 N 10 St Camden 1 NJ 3-5-7-8-9-11-12-17-23	Inhko Scientific Inc
D-unnert Mfg Co	Formica Corp	111 W Elm Stillwater Okla 5-4
1712 N Ashland Ave Chicago 22 III 4-1	4614 Spring Grove Ave	Laboratory For Electronics Inc 75 Pitts St Boston 14 Mass 3-4-5-7
Daystrom Pacific Corp Potentiometer Div	Cincinnati 32 Ohio	Lambda-Pacific Eng'g Inc
11150 La Grange Ave Los Angeles 25 Calif	Franklin A W 39 Brondway New York 6 NY 19	14725 Arminta St Van Nuys Calif
Dovetrom Pacific Corp	Franklin Fibre-Lamitex Corp	Laminated Sheet Products Corp 449 Neponset St Norwood Mass 7-11-22
3030 Nebraska Ave Santa Monica Calif 18	Welmington Dela	La Moree C D
Dearborn Electronic Labs Inc 1421 N Wells St Chicago 10 Ill 1	Frederick Tool & Eng'g Coro 414 Pine Ave Frederick Md 14	2433 Birkdale St Los Angeles 31 Calif 12
Defiance Printed Circuit Corp	Frenchtown Porcelain Co	Lamtex Industries Inc 51 State St Westbury NY
Moulton & Munroe Sts	Muirhead Ave Trenton 9 NJ 7 F-R Machine Works Inc Electronic & X-Ray	I - Doint Industries Inc
Georgetown Mass 4-5-1-22 Delevan Electronics Corp	Div 26-12 Borough Pl Woodside 77 NY 15	155 W Main St Rockville Conn 4-5-7-12-14
Roycroft Campus E Aurora NY 10	Furane Plastics Inc	Leach & Garner Co Industrial Div Leach & Garner Bldg Attleboro Mass 12
Die-Form Circuits Inc	4516 Brazil St Los Angeles 32 Calif 11	Lear Inc
6045 W Ogden Ave Chicago 50 III 5-1	Garde Mfg Co 588 Eddy St Providence 3 RI 9-17	3171 S Bundy Drive
Delta Chemical Works 23 W 60 St New York 23 NY 12	Gates Radio Co	Santa Monica Cam
Design Tool Corp	123 Hampshire St Quincy Ill 7	Lectrohm Inc 5560 Northwest Hwy Chicago 30 III 21
80 Washington St New York 6 NY 19	Gavitt Wire & Cable Co Central St Brookfield Mass 4-5-7	Lenk Mfg Co
Deutschmann Corp Tobe Norwood Mass 15	General Cement Mfg Co Div Textron Inc	30 Cummington St Boston 15 Mass 20
Dilectron Div Gudeman Co	400 S Wyman St Rockford III	Leonard Electric Products Co 67 34 St Brooklyn 32 NY
2669 S Myrtle Ave Monrovia Calif 10	General Electric Co Specialty Electronic Components Dept	Lerco Electronics Inc
Dmeter Mfg Co 22 Larkin Plaza Yonkers NY 14	W Genesee St Auburn NY 1-5-7-21	501 S Varney St Burbank Calif
Doty Acoustical Electronic Labs	General Electric Co Apparatus Sales Div	Litton Industries of Calif 336 N Foothill Rd
431 Broome St New York 13 NY 7-16-19	1 River Rd Schenectady 5 NY 15	Beverly Hills Calif 4-7-10-15
Doven Mach & Eng Inc	General Electric Co Coshocton Ohio 11-12	Luma Electric Equipment Co
2706 W Van Buren St Chicago 12 III 20 Dry Screen Process Inc	Ceneral Research & Supply Co	P O Box 132 Toledo 1 Ohio 20
1016 Madison Ave Pittsburgh 12 Pa 19-22	572 S Division Ave Grand Rapids 3 Mich 19	Luminous Processes Inc 161 E 42 St New York 17 NY 7-22
Dudek & Co R C	General Resistance Inc 577 E 156 St New York 55 NY 21	Luther Electronic Mfg Co
407 N Maple Dr Beverly Hills Calif 9-17 Dumont Airplane & Marine Instruments Inc	General RF Fittings Inc	5728 W Washington Blvd
15 William St New York 5 NY	702 Beacon St Boston 15 Mass 9-17	Los Angeles 16 Calif
Dunlap Electronics	Glass Products Co	Lynmar Engineers Inc 1432 N Carlisle St
764 9 St Des Moines 14 Iowa 4-7-10-19	6911 South Chicago Ave Chicago 37 Ill 7 Globe Electrical Mfg Co	Philadelphia 21 Pa 13-14-15
Dunton Co M W 7 Goff St Providence RI 20	1729 W 134 St Gardena Calif 4-5-7-22	Lytle Eng'g & Mfg Co
Dwyer Eng'g Co	Goldak Co	1404 San Mateo Blvd
Pine St Ext Nashua NH 4-5-6-7-10-20	1544 W Glenoaks Blvd Glendale 1 Calif 7	S E Albuquerque New Mex 4-7

McDowell Electronics Inc
105 Forrest St Metuchen NJ 20 Mack Electronics Div Inc Sub Mack
Trucks Inc 1120 S 2 St
Plainfield NJ Mack Electronics Div Mack Trucks Inc
40 Leon St Boston 15 Mass 16
Maida Development Co 214 Academy St Hampton Va
Malco Tool & Mfg Co
Mallory & Co Inc P R
42 S Gray St Indianapolis 6 Ind 17-21
Mandex Mfg Co  2608 W 16 St Chicago 8 Ill  Maryland Electronic Mfg Corp
5009 Calvert Rd College Park Md 7 29
Maurey Instrument Corp 7924 S Exchange Ave Chicago 17 Ill 18
1961 W 112 St Cleveland 2 Ohio 4-7 Measurement Eng'g Ltd
232 John St Arnprior Ontario Can 14-22 Mech-Tronic Equipment Co
P O Box 510 Silver Spring Md 19 Melpar Inc
3000 Arlington Blvd Falls Church Va 15
Abbett Ave Morristown NI
Metals & Controls Corp General Plate Div
48 Forest St Attleboro Mass 12-17 Methode Mfg Corp
7447 W Wilson Ave Chicago 31 Ill 4-5-7-8-9-17-23
Mica Corp
4031 Elenda St Culver City Calif 3-4-5-7 Micamold Electronics Mfg Corp
Micamold Electronics Mfg Corp 1087 Flushing Ave Brooklyn 37 NY 15 Micarta Fabricators Inc
5324 N Ravenswood Ave
Micro-Circuits Co
New Buffalo Mich 7-19-22 Microdot Inc
220 Pasadena Ave S Danadan Guid
Mil Case Corp 35-18 37 St Long Island City NY Milgo Electronic Corp
Milgo Electronic Corp 7601 N W 37 Ave Mismi 47 Flo
7601 N W 37 Ave Miami 47 Fla Millen Mfg Co James 150 Eychonge St Moldon 40 M
Miller Co J W
5917 S Main St Los Angeles 3 Calif 10-14-15
Miller-Troisn Co
3 North Ridge Ave Troy Ohio 19-22 Milwaukee Resistor Co
Minitron Inc. 21
Minitron Inc. 7643 Fay Ave La Jolla Calif 1-4-5-6-7-23 Modular Systems Inc.
Minitron Inc. 7643 Fay Ave La Jolla Calif 1-4-5-6-7-23 Modular Systems Inc.
Minitron Inc 7643 Fay Ave La Jolla Calif 1-4-5-6-7-23 Modular Systems Inc 21-28 45 Rd Long Island City 1 NY Moded Insulation Co
Minitron Inc 7643 Fay Ave La Jolla Calif 1-4-5-6-7-23 Modular Systems Inc 21-28 45 Rd Long Island City 1 NY Molded Insulation Co 335 E Price St Philadelphia 44 Pa 7 Motson Co J Frank 1717 Bethlehem Pike Flourtown Pa
Minitron Inc 7643 Fay Ave La Jolla Calif 1-4-5-6-7-23 Modular Systems Inc 21-28 45 Rd Long Island City 1 NY Molded Insulation Co 335 E Price St Philadelphia 44 Pa Motson Co J Frank 1717 Bethlehem Pike Flourtown Pa 7
Minitron Inc 7643 Fay Ave La Jolla Calif 1-4-5-6-7-23 Modular Systems Inc 21-28 45 Rd Long Island City 1 NY Molded Insulation Co 335 E Price St Philadelphia 44 Pa 7 Motson Co J Frank 1717 Bethlehem Pike Flourtown Pa Mucon Corp 9 St Francis St Newark 5 NJ Myceley Corp A American 1
Minitron Inc 7643 Fay Ave La Jolla Calif 1-4-5-6-7-23 Modular Systems Inc 21-28 45 Rd Long Island City 1 NY Molded Insulation Co 335 E Price St Philadelphia 44 Pa 7 Motson Co J Frank 1717 Bethlehem Pike Flourtown Pa Mucon Corp 9 St Francis St Newark 5 NJ Mycalex Corp of America 125 Clifton Blyd Clifton NJ National Aircraft Colletin NJ National Aircraft Colletin NJ
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Minitron Inc 7643 Fay Ave La Jolla Calif 1-4-5-6-7-23 Modular Systems Inc 21-28 45 Rd Long Island City 1 NY Molded Insulation Co 335 E Price St Philadelphia 44 Pa 7 Motson Co J Frank 1717 Bethlehem Pike Flourtown Pa Mucon Corp 9 St Francis St Newark 5 NJ Mycalex Corp of America 125 Clifton Blvd Clifton NJ National Aircraft Corp Electronics Div 3411 Tulare Ave Burbank Calif National Capacitor Co
Minitron Inc 7643 Fay Ave La Jolla Calif 1-4-5-6-7-23 Modular Systems Inc 21-28 45 Rd Long Island City 1 NY Molded Insulation Co 335 E Price St Philadelphia 44 Pa 7 Motson Co J Frank 1717 Bethlehem Pike Flourtown Pa 1717 Bethlehem Pike Flourtown Pa 172 Cifton Blvd Clifton NJ 18 Weslex Corp of America 125 Clifton Blvd Clifton NJ National Aircraft Corp Electronics Div 3411 Tulare Ave Burbank Calif National Capacitor Co 18 Webster St Brookline 46 Mass 1-14-15 National Tel-Tronics Corp
Minitron Inc 7643 Fay Ave La Jolla Calif 1-4-5-6-7-23 Modular Systems Inc 21-28 45 Rd Long Island City 1 NY 7 Molded Insulation Co 335 E Price St Philadelphia 44 Pa 7 Motson Co J Frank 1717 Bethlehem Pike Flourtown Pa 7 Mucon Corp 9 St Francis St Newark 5 NJ 11 Mycalex Corp of America 125 Clifton Blyd Clifton NJ 7 National Aircraft Corp Electronics Div 3411 Tulare Ave Burbank Calif National Capacitor Co 18 Webster St Brookline 46 Mass 1-14-15 National Tel-Tronics Corp 52 St Casimir Ave Yonkers NY National Vulcanized Fibre Co P O RV 211 Williamet Co
Minitron Inc 7643 Fay Ave La Jolla Calif 1-4-5-6-7-23 Modular Systems Inc 21-28 45 Rd Long Island City 1 NY Molded Insulation Co 335 E Price St Philadelphia 44 Pa 7 Motson Co J Frank 1717 Bethlehem Pike Flourtown Pa Mucon Corp 9 St Francis St Newark 5 NJ Mycalex Corp of America 125 Clifton Blvd Clifton NJ National Aircraft Corp Electronics Div 3411 Tulare Ave Burbank Calif National Capacitor Co 18 Webster St Brookline 46 Mass National Tel-Tronics Corp 52 St Casimir Ave Yonkers NY National Vulcanized Fibre Co P O Box 211 Wilmington 99 Dela 11-12
Minitron Inc 7643 Fay Ave La Jolla Calif 1-4-5-6-7-23 Modular Systems Inc 21-28 45 Rd Long Island City 1 NY Molded Insulation Co 335 E Price St Philadelphia 44 Pa 7 Motson Co J Frank 1717 Bethlehem Pike Flourtown Pa Mucon Corp 9 St Francis St Newark 5 NJ Mycalex Corp of America 125 Clifton Blvd Clifton NJ National Aircraft Corp Electronics Div 3411 Tulare Ave Burbank Calif National Capacitor Co 18 Webster St Brookline 46 Mass National Tel-Tronics Corp 52 St Casimir Ave Yonkers NY National Vulcanized Fibre Co P O Box 211 Wilmington 99 Dela 11-12
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Polytronic Research Inc	4 5 5 10
7600 Woodbury Dr Silver Spring Md Potter Co	4-0-7-10
1950 Sheridan Rd N Chicago III Premier Instrument Corp 52 W Houston St New York 12 NY Printed Electronics Corp	1
Pye Telecommunications Ltd	-5-7-8-19
Newmarket Rd Cambridge England Pyramid Electric Co	13
1445 Hudson Blvd N Bergen NJ Radio Corp of America Commercial Electronic Products Camden 2 NJ	1
Radio Eng'g Products Ltd 1080 University St	14
Montreal 3 Quebec Canada	14
5225 N Rayenswood Ave Chicago 25	III 1-15
Ransom Research 323 W 7 St San Pedro Calif Raytheon Mfg Co	4-6-7
100 River St Waltham 54 Mass	15
RCL Mfg Co New Jersey Ave Riverside N.I	21
80 Shore Rd Powt Washington NV	20
Remler Co 2101 Bryant St San Francisco Calif Reon Resistor Corp 117 Stanley Ave Yonkers NY Resistance Products Co	7
Reon Resistor Corp	21
Resistance Products Co 914 S 13 St Harrisburg Pa Revere Copper & Brass Inc	
Revere Copper & Brass Inc	21
230 Park Ave New York 17 NY Richardson Co 27 Ave & Lake St Melrose Park III	11
Rixon Electronics Inc 2414 Reedie Dr Silver Spring Md Robinson Machine Works	11-12
Robinson Machine Works 802 E 8 St New Albany Ind	
Rogers Corp	9-19
Rogers Conn 3-4-7 Rowe Engravers	-8-18-21
Rowe Engravers 262 E 16 St Paterson 4 NJ RS Electronics Corp	4-7-19
435 Portage Ave Palo Alto Calif Rubber & Asbestos Corp	7
225 Belleville Ave Bloomfield NJ Safetee Glass Co	11
4717 Stenton Ave Philadelphia 44 Pa	11-22
St Regis Paper Co Panelyte Div 150 E 42 St New York 16 NY Sampson Chemical & Pigment Corp.	7
Sampson Chemical & Pigment Corp 2830 W Lake St Chicago 12 Ill Sanders Associates	22
95 Canal St Nashua NH San Fernando Electric Mfg Co	7-20
1509 1 St San Fernando Calif Sangamo Electric Co	1
Springfield Ill	1
Seneca Falls Machine Co 314 Fall St Seneca Falls NY Servonics Inc	4-7
822 N Henry St Alexandria Va Seymour Mfg Co	7
15 Franklin St Seymour Conn Shallcross Mfg Co	12
Jackson & Pusey Aves Collingdale Pa	14-21
Sibley Co Bridge St Haddam Conn	4-5-6-7
Skiatron Electronics & TV Corp 180 Varick St New York 14 NY	4-5-7
Slip Ring Co of America 3612 W Jefferson Blvd	
Jackson & Pusey Aves Collingdale Pa Sibley Co Bridge St Haddam Conn Skiatron Electronics & TV Corp 180 Varick St New York 14 NY Slip Ring Co of America 3612 W Jefferson Blvd Los Angeles 16 Calif 3-4-5-6-7- Solar Mfg Corp 4553 Seville Ave Los Angeles 58 Calif	
Spaulding Fibre Co	1-7-21
310 Wheeler St Tonawanda NY Spectrol Electronics Div Carrier Corp	7-11
1704 S Del Mar Ave San Gabriel Cal Sprague Electric Co	
Marshall St North Adams Mass 1-6- Sprague of Wisconsin Inc 6 & Beech Sts Grafton Wis	7-15-21
6 & Beech Sts Grafton Wis Stackpole Carbon Co	1-21
St Marvs Pa	18
Stavid Eng'g Inc U S Route 22 Plainfield NJ	7-19
15 Route 22 Planneld NJ Sta-Warm Electric Co 553 N Chestnut St Ravenna Ohio Stewart Warner Electronics Div 1300 N Kostner Ave Chicago 51 III Stokes Corp F J 5500 Tabor Rd Philadelphia 20 Pa	20
1300 N Kostner Ave Chicago 51 III	10
5500 Tabor Rd Philadelphia 20 Pa	19
Dynamics Corp	
100 Carlson Rd Rochester 3 NY	1-7-19
Sun Chemical Corp 10-10 44 Ave Long Island City 1 NY Superex Electronics Corp	19
4 Radford Pl Yonkers NY	4-7
Swedlow Plastics Co 6986 Bandini Blvd	
Los Angeles 22 Calif	-7-8-11

Sylvania Electric Products Inc 1740 Broadway New York 19 NY	7-23
Synthane Corp Montgomery Ave Oaks Pa	11-12
Taylor Fibre Co	11-12
Norristown Pa Technitrol Eng'g Co	
1952 E Allegheny Ave Philadelphia 34 I Techniques Inc	
Hackensack N.I 12-17-19	7-9-11 -22-23
Technograph Printed Electronics 185 Valley St Tarrytown NY 7	-19-20
Tech-Ohm Resistor Corp 36-11 33 St Long Island City 6 NY	
Techron Corp	21
81 Washington St Boston 8 Mass Telectro Industries Corp 35-18 37 St	7
Long Island City 1 NY 13-14	-15-16
Telegraph Condenser Co	
London W 3 England 1-4-5-6-7 Telemeter Magnetics Inc	-15-20
2245 Pontius Ave Los Angeles 64 Colif	7
Telephonics Corp Park Ave Huntington LI NY	7
1633 Eustis St St Paul 1 Minn	6
Tel-Rad Electronics Corp 73-20 Trotting Course Lane	
	6-7-10
	6-7 <b>-16</b>
12210 Nebraska Ave Los Angeles 25 Ca	lif 14
Transformer Technicians Inc 2608 N Cicero Ave Chicago 39 Ill	14
Tran-Kit Electronics Co 467 S 5 Ave Mt Vernon NY Transonic Inc	7
Transonic Inc 808 16 St Bakersfield Calif 10-13.	-14-15
808 16 St Bakersfield Calif 10-13. Tricraft Products Corp 1535 N Ashland Ave Chicago 22 Ill	14
Tri-Dex Electronics P O Box 1207 Lindsay Calif	4-7
Trimm Inc	
400 W Lake St Libertyville III Trimount Plastic Co	16
Tripl-T Electronics Co	11
Box 5352 Pasadena Calif	16
Utradyne Eng'g Labs P O Box 3308 Albuquerque New Mex Underwood Corp Electronic Computer Div	6-16
35-10 36 Ave Long Island City 6 NY	10-15
4101 Redwood Ave Los Angeles 66 Calif United Transformer Corp Pacific Div 4008 W Jefferson Blvd	20
4008 W Jefferson Blvd	
Los Angeles 16 Calif United Transformer Corp 150 Varick St New York 13 NY	15
Universal Condenser Co 3435 N Kimball Ave Chicago 18 Ill	15
University Loudspeakers Inc	1
80 S Kensico Ave White Plains NY	14
454 E 148 St New York 55 NY U S Plywood Corp 55 W 44 St New York 36 NY U S Steel Corp	9
55 W 44 St New York 36 NY	12
525 William Penn Pl Pittsburgh 30 Pa	12
61-35 166 St Flushing 68 NY	7
Vanguard Electronics Co 3384 Motor Ave Los Angeles 34 Calif	6
Vidaire Electronics Mfg Corp 576 W Merrick Rd Lynbrook NY Viking Industries Inc	14
Viking Industries Inc 21343 Roscoe Blvd Canoga Park Calif	9
Vocalite Screen Corp 19 Debevoise Ave Roosevelt NY	22
Vulcan Electric Co 88 Holten St Danvers Mass	20
Waage Electric Inc	
720 Colfax Ave Kenilworth NJ Waldorf Instrument Co Div F C Huyck & Sons	19
Park Ave Huntington Station NY	6
Wales-Strippit Co Akron NY	19
	6-15
Wall Mfg Co P	20
Walsco Electronics Mfg Co	
Walkirt Co 141 W Hazel St Inglewood 3 Calif Wall Mfg Co P Grove City Pa Walsco Electronics Mfg Co 100 W Green St Rockford Ill Ward Leonard Electric Co	20
Weller Electric Corp	21
601 Stone's Crossing Rd Easton Pa West Coast Research Corp	26
2371½ Westwood Blvd Los Angeles 64 Calif	6-19
Westinghouse Electric Corp Micarta Div Hampton S Car	11
Westronics Inc 3605 McCart Ft Worth Texas	
Wheaton Co T C	16
Whitewater Electronics Inc	10
Wiedemann Machine Corp	10
4275 Wissahickon Ave Philadelphia 32 Pa Winchester Electronics Inc	19
Willard Rd Norwalk Conn	9

Winder Aircraft Corp of Florida P O Box 2897 Drane Field Lakeland Fla 12		
P O Box 2091 Drane Field Lakeland Fia 12	AiResearch Mfg Co Div Garrett Corp	Breuer Electric Mfg Co 5100 N Ravenswood Ave Chicago 40 III 1
Zephyr Mfg Co Electronics Div	9851 Sepulveda Blvd Los Angeles 45 Calif Air Reduction Sales Co Div	Duitish Industries COPD
201 Hindry Ave Inglewood 1 Calif 20	Air Reduction Co	80 Shore Rd Port Washington NY 25-29
Zero Mfg	150 E 42 St New York 17 NY 56	Dwoke & Perkins Inc
1121 Chestnut Burbank Calif 7	Air & Refrigeration Corp	1950 W Fort St Detroit 16 21162
/A DDADUGTION	439 Madison Ave New York 22 NY Air Transport Mfg Co	Brunner Mfg Co 1821 Broad St Utica 1 NY
69—PRODUCTION	1114 N Sycamore Ave	n Now Vork Industries COTO
MACHINERY &	Los Angeles 38 Calif 17-45-52	AGO W 34 St. New YORK I NI
EQUIPMENT	Alcar Instruments Inc	Dulous Watch Co Electronics Div
EQUIFMENT	11 Industrial live Diene 2 cm	40-01 61 St Woodside W NI
A *	Alden Products Co 123 A N Main St Brockton Mass 52	Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif 46
Air conditioning 1	Allied Eng'g & Production Corp	
Assemblers, feeders 2	2421 Blanding Ave	5445 E Century Blvd Lynwood Calif 52
Assembling equipment, automatic 3	Alameda Calif 6-7-16-38-45-51 Allied Engraving & Stamping Co	
Buffers & grinders 4	17 Elm St Buffalo 3 NY 53	3518 W Pico Blvd Los Angeles 19 Calif 44
Chambers, environment 5	Alloy Metalsmiths Inc	Carrier Corp 300 S Geddes St Syracuse 1 NY 1-13
Chambers, temperature &	89 Commerce Rd Cedar Grove NJ 17	Catamillar Tractor CO
humidity 6	Aloe Scientific	Peoria Ill
Chambers, test 7	5655 Kingsbury Blvd St Louis 12 Mo 5-6-7-8-42	Control Scientific Co
Cleaners, ultrosonic 8	Altec Lansing Corp	1700 Irving Park Rd Chicago 13 III
Compressed air production tools 9	1515 S Manchester Ave Anaheim Calif 5-52	Central Scientific Co of Calif 1040 Martin Ave Santa Clara Calif 47-55
Conveyors 10	American Electric Fusion Corp 2600 Diversey Ave Chicago 47 Ill 37-56	Channella Instrument Corp
	American Gas Furnace Co	Shadyside Md
Crystal growing equipment 11	140 Spring St Elizabeth 1 NJ 19-47	Chicago Rivet & Machine Co
Crystol refining equipment 12	American Hoist & Derrick Co 63 S Robert St St Paul 1 Minn 45	950 S 25 Ate Bellwood III
Dehumidifiers	63 S Robert St St Paul 1 Minn 45 American Instrument Co	Chicago Steel Furnace Co 9326 S Anthony Ave Chicago 28 III
Dehydrators	8030 Georgia Ave Silver Spring Md 5-6-21-47	Charchill Lighting Corp
Demognetizers	American Machine & Foundry Co	344 Franklin St Melrose 76 Mass 49-52
Drill presses	Defense Products Group 1101 N Royal St. Alexandria Va 5-7-22	Cinema-Television Ltd
Dust enclosures	1101 N Royal St Alexandria Va 5-7-22 American Oxygen Service Corp	Worsley Bridge Rd
Furnaces, electric 18	600 Essex St Harrison NJ 56	Lower Sydenham London SE 26 England 46
Furnaces, gas fired 19	American Photocopy Equip Co	Cincinnati Sub-Zero Products
Lathes, bench	1920 W Peterson Ave Chicago 26 Ill 23	3932 Reading Rd
Machines, obrasive cutting 21	American Products Mfg Co 8127 Oleander St New Orleans 18 La 38	Cincinnati 29 Ohio 1-6
Machines, balancing 22	American Research & Mfg Corp	Clark Crystal Co 2 Farm Rd Marlboro Mass 46
Machines, blueprint 23	920 Halpine Ave Rockville Md 8	Clos rview Co
Machines, capacitor mfg 24	American Research Corp Route 6 Farmington Conn 5-6	172 Stanton St New York 2 NY 36
	Route 6 Farmington Conn 5-6 Anchord Specialty Mfg Co	Coil Winders Inc
Machines, coil winding 25	Hollister Rd Teterboro NJ 5-7-15	New Tork Ave Westbury 22
Machines, coil winding, toroidal 26	Andrew Calif Corp	Coil Winding Equipment Co 19 Maxwell Ave Oyster Bay NY 25
Machines, counting 27	941 E Marylind Ave Claremont Calif 49 Andrew Corp	Cole Radio Works
Machines, crystal mfg. &	363 E 75 St Chicago 19 Ill 14	86 Westville Ave Caldwell NJ 41
finishing	Anetsberger Bros	Communication Equipment & Eng g Co
Machines, die casting 29	Northbrook Ill 6 Annis Co R B	5646 W Race Ave Chicago 44 Ill 52 Condenser Machinery Co
Machines, electron tube mfg 30	1101 N Delaware St Indianapolis 2 Ind 15	28 Harbor St Stamford Conn 24
Mochines, engraving 31	Arlin Products Inc	Conrad Inc
Machines, gloss blowing &	13541 Auburn Ave Detroit 23 Mich 42	141 Jefferson St Holland Mich 6-7
working 32	Artos Eng'g Co 2757 S 28 St Milwaukee 46 Wis 43	Consolidated Electrodynamics Corp
Machines, hermetic sealing 33	Arvey Corp	300 N Sierra Madre Villa Pasadena Calif 40
Machines, impregnating 34	Fibre Forming Div Olean NY 45	Consolidated Vacuum Corp
Machines, lamination stacking 35	Associated American Trading Div	1775 Mt Read Blvd Rochester 3 NY 57
Machines, marking & numbering 36	750 St Ann's Ave New York 56 NY 24-25-26-35	Controlled Atmosphere Enclosures Corp 230-11 141 Ave
Machines, metal forming 37	Associated Eng'g & Mfg Corp	Springfield Gardens 13 LI NY 5-6-7-13-17-49
Machines, plastic press 38	210 Stonehouse Rd Glen Ridge NJ 32-33	Cook Electric Co
	Associated Production Co 162 N Clinton St Chicago 6 Ill 25-26	2700 Southport Ave Chicago 14 Ill 5-6-7
	162 N Clinton St Chicago 6 Ill 25-26	
Machines, riveting		Cooper Co D C
Machines, shock testing 40	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47	1467 S Michigan Ave Chicago 5 Ill 34-45-48
Machines, shock testing 40 Machines, soldering 41	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Atmosphere Control Co	1467 S Michigan Ave Chicago 5 Ill 34-45-48 Cosa Corp 405 Lexington Ave
Machines, shock festing 40 Machines, soldering 41 Machines, weighing 42	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Atmosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5	1467 S Michigan Ave Chicago 5 III 34-45-48 Cosa Corp 405 Lexington Ave New York 17 NY 22-25-26-31
Machines, shock testing 40 Machines, soldering 41 Machines, weighing 42 Machines, wirestripping 43	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Atmosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc	1467 S Michigan Ave Chicago 5 III 34-45-48 Cosa Corp 405 Lexington New York 17 Cox & Co  22-25-26-31
Machines, shock testing 40 Machines, soldering 41 Machines, weighing 42 Machines, wirestripping 43 Magnetizers 44	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Atmosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Elizabeth NJ 36-41 Baker Bros	1467 S Michigan Ave Chicago 5 III 34-45-48 Cosa Corp 405 Lexington Ave New York 17 NY 22-25-26-31 Cox & Co 115 E 23 St New York 10 NY 46-47
Machines, shock testing	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Almosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Elizabeth NJ 36-41 Baker Bros Post & Harleau Sts Toledo 10 Ohio	1467 S Michigan Ave Chicago 5 III 34-45-48 Cosa Corp 405 Lexington Ave New York 17 NY 22-25-26-31 Cox & Co 115 E 23 St New York 10 NY 46-47 Craig Systems Inc
Machines, shock testing	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Atmosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Elizabeth NJ 36-41 Baker Bros Post & Harleau Sts Toledo 10 Ohio Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass 3	1467 S Michigan Ave Chicago 5 Ill 34-45-48 Cosa Corp 405 Lexington Ave New York 17 NY 22-25-26-31 Cox & Co 115 E 23 St New York 10 NY Craig Systems Inc 90 Holten St Cro-Plate Co
Machines, shock testing	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Almosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Elizabeth NJ 36-41 Baker Bros Post & Harleau Sts Toledo 10 Ohio Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass Barnstead Still & Demineralizer Co	1467 S Michigan Ave Chicago 5 Ill 34-45-48 Cosa Corp 405 Lexington Ave New York 17 NY 22-25-26-31 Cox & Co 115 E 23 St New York 10 NY 46-47 Craig Systems Inc 90 Holten St Danvers Mass 52 Cro-Plate Co 747 Windsor St Hartford 1 Conn 21
Machines, shock testing	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Atmosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Efizabeth NJ 36-41 Baker Bros Post & Harleau Sts Toledo 10 Ohio Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass Barnstead Still & Demineralizer Co 253 Lanesville Terrace Boston 31 Mass 54	1467 S Michigan Ave Chicago 5 III 34-45-48 Cosa Corp 405 Lexington New York 17 Cox & Co 115 E 23 St New York 10 NY Craig Systems Inc 90 Holten St Cro-Plate Co 747 Windsor St Hartford 1 Conn Crown Controls Co
Machines, shock festing	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Almosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Elizabeth NJ 36-41 Baker Bros Post & Harleau Sts Toledo 10 Ohio 16 Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass 8 Barnstead Still & Demineralizer Co 253 Lanesville Terrace Boston 31 Mass 54 Barrett Co Leon J	1467 S Michigan Ave Chicago 5 Ill 34-45-48 Cosa Corp 405 Lexington Ave New York 17 NY 22-25-26-31 Cox & Co 115 E 23 St New York 10 NY 46-47 Craig Systems Inc 90 Holten St Danvers Mass 52 Cro-Plate Co 747 Windsor St Hartford 1 Conn 21
Machines, shock festing	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Atmosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Elizabeth NJ 36-41 Baker Bros Post & Harleau Sts Toledo 10 Ohio Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass Barnstead Still & Demineralizer Co 253 Lanesville Terrace Boston 31 Mass Barrett Co Leon J P O Box 378 Worcester 1 Mass Beach-Russ Co	1467 S Michigan Ave Chicago 5 Ill 34-45-48 Cosa Corp 405 Lexington Ave New York 17 NY 22-25-26-31 Cox & Co 115 E 23 St New York 10 NY 46-47 Craig Systems Inc 90 Holten St Danvers Mass 52 Cro-Plate Co 747 Windsor St Hartford 1 Conn 21 Crown Controls Co 40 S Washington St New Bremen Ohio 45 Crucible Steel Co of America Henry W Oliver Bldg Pittsburgh 22 Pa 15-44
Machines, shock testing	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Almosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Elizabeth NJ 36-41 Baker Bros Post & Harleau Sts Toledo 10 Ohio Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass Barnstead Still & Demineralizer Co 253 Lanesville Terrace Boston 31 Mass Barnett Co Leon J P O Box 378 Worcester 1 Mass Beach-Russ Co 50 Church St New York 7 NY 57	1467 S Michigan Ave Chicago 5 Ill 34-45-48 Cosa Corp 405 Lexington Ave New York 17 NY 22-25-26-31 Cox & Co 115 E 23 St New York 10 NY 46-47 Craig Systems Inc 90 Holten St Danvers Mass 52 Cro-Plate Co 747 Windsor St Hartford 1 Conn 21 Crown Controls Co 40 S Washington St New Bremen Ohio 45 Crucible Steel Co of America Henry W Oliver Bldg Pittsburgh 22 Pa 15-44 Daco Instrument Co
Machines, shock testing	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Atmosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Elizabeth NJ 36-41 Baker Bros Post & Harleau Sts Toledo 10 Ohio Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass Barnstead Still & Demineralizer Co 253 Lanesville Terrace Boston 31 Mass Barrett Co Leon J P O Box 378 Worcester 1 Mass Beach-Russ Co 50 Church St New York 7 NY Bendix Aviation Corp	1467 S Michigan Ave Chicago 5 Ill 34-45-48 Cosa Corp 405 Lexington Ave New York 17 NY 22-25-26-31 Cox & Co 115 E 23 St New York 10 NY 46-47 Craig Systems Inc 90 Holten St Danvers Mass Cro-Plate Co 747 Windsor St Hartford 1 Conn 21 Crown Controls Co 40 S Washington St New Bremen Ohio 45 Crucible Steel Co of America Henry W Oliver Bldg Pittsburgh 22 Pa 15-44 Daco Instrument Co Tillary & Prince Sts Brooklyn 1 NY 13
Machines, shock testing	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Atmosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Elizabeth NJ 36-41 Baker Bros Post & Harleau Sts Toledo 10 Ohio Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass Barnstead Still & Demineralizer Co 253 Lanesville Terrace Boston 31 Mass Barnsteat Co Leon J P O Box 378 Worcester 1 Mass Beach-Russ Co 50 Church St New York 7 NY Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich	1467 S Michigan Ave Chicago 5 Ill 34-45-48 Cosa Corp 405 Lexington Ave New York 17 NY 22-25-26-31 Cox & Co 115 E 23 St New York 10 NY 46-47 Craig Systems Inc 90 Holten St Danvers Mass 52 Cro-Plate Co 747 Windsor St Hartford 1 Conn 21 Crown Controls Co 40 S Washington St New Bremen Ohio 45 Crucible Steel Co of America Henry W Oliver Bldg Pittsburgh 22 Pa 15-44 Daco Instrument Co
Machines, shock testing	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Atmosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Elizabeth NJ 36-41 Baker Bros Post & Harleau Sts Toledo 10 Ohio Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass Barnstead Still & Demineralizer Co 253 Lanesville Terrace Boston 31 Mass 54 Barrett Co Leon J P O Box 378 Worcester 1 Mass Bach-Russ Co 50 Church St New York 7 NY Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich Bendix Aviation Corp Pioneer-Central Div	1467 S Michigan Ave Chicago 5 Ill 34-45-48 Cosa Corp 405 Lexington Ave New York 17 NY 22-25-26-31 Cox & Co 115 E 23 St New York 10 NY 46-47 Craig Systems Inc 90 Holten St Danvers Mass 52 Cro-Plate Co 747 Windsor St Hartford 1 Conn 21 Crown Controls Co 40 S Washington St New Bremen Ohio 45 Crucible Steel Co of America Henry W Oliver Bldg Pittsburgh 22 Pa 15-44 Daco Instrument Co Tillary & Prince Sts Brooklyn 1 NY 13 Dahlstrom Metallic Door Co Buffalo & 2 Sts Jamestown NY 52 Dale Products Inc
Machines, shock festing 40 Machines, soldering 41 Machines, weighing 42 Machines, wirestripping 43 Magnetizers 44 Material handling equipment 45 Ovens, crystal 46 Ovens, temperature controlled 47 Pots & tanks, heating 48 Pressurization units 49 Pumps, high vacuum 57 Pumps, metering 50 Punch presses 51 Racks, relay 52 Stamps, marking 53	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Atmosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Elizabeth NJ 36-41 Baker Bros Post & Harleau Sts Toledo 10 Ohio Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass Barnstead Still & Demineralizer Co 253 Lanesville Terrace Boston 31 Mass Barnsteat Co Leon J P O Box 378 Worcester 1 Mass Bach-Russ Co 50 Church St New York 7 NY Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich Bendix Aviation Corp Pioneer-Central Div 2734 Hickory Grove Rd Davenport Iowa	1467 S Michigan Ave Chicago 5 Ill 34-45-48 Cosa Corp 405 Lexington Ave New York 17 NY 22-25-26-31 Cox & Co 115 E 23 St New York 10 NY 46-47 Craig Systems Inc 90 Holten St Danvers Mass 52 Cro-Plate Co 747 Windsor St Hartford 1 Conn 21 Crown Controls Co 40 S Washington St New Bremen Ohio 45 Crucible Steel Co of America Henry W Oliver Bidg Pittsburgh 22 Pa 15-44 Daco Instrument Co Tillary & Prince Sts Brooklyn 1 NY 13 Dahlstrom Metallic Door Co Buffalo & 2 Sts Jamestown NY 52 Dale Products Inc Columbus Nebr 3
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Machines, shock festing 40 Machines, soldering 41 Machines, weighing 42 Machines, wirestripping 43 Magnetizers 44 Material handling equipment 45 Ovens, crystal 46 Ovens, temperature controlled 47 Pots & tanks, heating 48 Pressurization units 49 Pumps, high vacuum 57 Pumps, metering 50 Punch presses 51 Racks, relay 52 Stamps, marking 53 Stills & demineralizers 54 Titration apparatus, electronic 55	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Atmosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Elizabeth NJ 36-41 Baker Bros Post & Harleau Sts Toledo 10 Ohio Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass Barnstead Still & Demineralizer Co 253 Lanesville Terrace Boston 31 Mass 54 Barrett Co Leon J P O Box 378 Worcester 1 Mass Bach-Russ Co 50 Church St New York 7 NY Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich Bendix Aviation Corp Pioneer-Central Div 2734 Hickory Grove Rd Davenport Iowa Berg Mfg Corp 142 Reno St New Cumberland Pa 3	1467 S Michigan Ave Chicago 5 Ill 34-45-48 Cosa Corp 405 Lexington Ave New York 17 NY 22-25-26-31 Cox & Co 115 E 23 St New York 10 NY 46-47 Craig Systems Inc 90 Holten St Danvers Mass 52 Cro-Plate Co 747 Windsor St Hartford 1 Conn 21 Crown Controls Co 40 S Washington St New Bremen Ohio 45 Crucible Steel Co of America Henry W Oliver Bldg Pittsburgh 22 Pa 15-44 Daco Instrument Co Tillary & Prince Sts Brooklyn 1 NY 13 Dahlstrom Metallic Door Co Buffalo & 2 Sts Jamestown NY 52 Dale Products Inc Columbus Nebr Dallons Labs 5066 Santa Monica Blvd
Machines, shock festing 40 Machines, soldering 41 Machines, weighing 42 Machines, wirestripping 43 Magnetizers 44 Material handling equipment 45 Ovens, crystal 46 Ovens, temperature controlled 47 Pots & tanks, heating 48 Pressurization units 49 Pumps, high vacuum 57 Pumps, metering 50 Punch presses 51 Racks, relay 52 Stamps, marking 53 Stills & demineralizers 54	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Atmosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Elizabeth NJ 36-41 Baker Bros Post & Harleau Sts Toledo 10 Ohio Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass Barnstead Still & Demineralizer Co 253 Lanesville Terrace Boston 31 Mass Barnsteat Co Leon J P O Box 378 Worcester 1 Mass Bach-Russ Co 50 Church St New York 7 NY Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich Bendix Aviation Corp Pioneer-Central Div 2734 Hickory Grove Rd Davenport Iowa Berg Mfg Corp 142 Reno St New Cumberland Pa Berkeley Crystal Co	1467 S Michigan Ave Chicago 5 Ill 34-45-48 Cosa Corp 405 Lexington Ave New York 17 NY 22-25-26-31 Cox & Co 115 E 23 St New York 10 NY 46-47 Craig Systems Inc 90 Holten St Danvers Mass Cro-Plate Co 747 Windsor St Hartford 1 Conn 21 Crown Controls Co 40 S Washington St New Bremen Ohio 45 Crucible Steel Co of America Henry W Oliver Bldg Pittsburgh 22 Pa 15-44 Daco Instrument Co Tillary & Prince Sts Brooklyn 1 NY 13 Dahlstrom Metallic Door Co Buffalo & 2 Sts Jamestown NY 52 Dale Products Inc Columbus Nebr 20 Dallons Labs 5066 Santa Monica Blvd Los Angeles 29 Calif 8-12-21-28 Dalmo Victor Co Div Textron Inc
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Machines, shock festing 40 Machines, soldering 41 Machines, weighing 42 Machines, wirestripping 43 Magnetizers 44 Material handling equipment 45 Ovens, crystal 46 Ovens, temperature controlled 47 Pots & tanks, heating 48 Pressurization units 49 Pumps, high vacuum 57 Pumps, metering 50 Punch presses 51 Racks, relay 52 Stamps, marking 53 Stills & demineralizers 54 Titration apparatus, electronic 55 Welders 56  Abalon Precision Mfg Corp 50 Abalon Precision Mfg Corp 50 Abalon Precision Mfg Corp 50  Abalon Precision Mfg Corp 50	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Atmosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Elizabeth NJ 36-41 Baker Bros Post & Harleau Sts Toledo 10 Ohio Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass Barnstead Still & Demineralizer Co 253 Lanesville Terrace Boston 31 Mass Barnsteat Co Leon J P O Box 378 Worcester 1 Mass Bach-Russ Co 50 Church St New York 7 NY Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich Bendix Aviation Corp Pioneer-Central Div 2734 Hickory Grove Rd Davenport Iowa Berg Mfg Corp 142 Reno St New Cumberland Pa Berkeley Crystal Co 1740 University Ave Berkeley 3 Calif Bernard Franklin Co 4155 E Hedley St Philadelphia 37 Pa 45-52	1467 S Michigan Ave Chicago 5 Ill 34-45-48 Cosa Corp 405 Lexington Ave New York 17 NY 22-25-26-31 Cox & Co 115 E 23 St New York 10 NY 46-47 Craig Systems Inc 90 Holten St Danvers Mass Cro-Plate Co 747 Windsor St Hartford 1 Conn 21 Crown Controls Co 40 S Washington St New Bremen Ohio 45 Crucible Steel Co of America Henry W Oliver Bldg Pittsburgh 22 Pa 15-44 Daco Instrument Co Tillary & Prince Sts Brooklyn 1 NY 13 Dahlstrom Metallic Door Co Buffalo & 2 Sts Jamestown NY 52 Dale Products Inc Columbus Nebr 3066 Santa Monica Blvd Los Angeles 29 Calif 8-12-21-28 Dalmo Victor Co Div Textron Inc 1515 Industrial Way Belmont Calif 14
Machines, shock festing       40         Machines, soldering       41         Machines, weighing       42         Machines, wirestripping       43         Magnetizers       44         Material handling equipment       45         Ovens, crystal       46         Ovens, temperature controlled       47         Pots & tanks, heating       48         Pressurization units       49         Pumps, high vacuum       57         Pumps, metering       50         Punch presses       51         Racks, relay       52         Stamps, marking       53         Stills & demineralizers       54         Titration apparatus, electronic       55         Welders       56         Abalon Precision       Mfg Corp         540 Casanova St New York       59 NY         Abbeon Supply Co       52	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Atmosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Elizabeth NJ 36-41 Baker Bros Post & Harleau Sts Toledo 10 Ohio 16 Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass 3 Barnstead Still & Demineralizer Co 253 Lanesville Terrace Boston 31 Mass 54 Barrett Co Leon J P O Box 378 Worcester 1 Mass Bach-Russ Co 50 Church St New York 7 NY 57 Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich Bendix Aviation Corp Pioneer-Central Div 2734 Hickory Grove Rd Davenport Iowa Berg Mfg Corp 142 Reno St New Cumberland Pa 3 Berkeley Crystal Co 1740 University Ave Berkeley 3 Calif Bernard Franklin Co 4155 E Hedley St Philadelphia 37 Pa 45-52 Bethlehem Apparatus Co	1467 S Michigan Ave Chicago 5 Ill 34-45-48 Cosa Corp 405 Lexington Ave New York 17 NY 22-25-26-31 Cox & Co 115 E 23 St New York 10 NY 46-47 Craig Systems Inc 90 Holten St Danvers Mass 52 Cro-Plate Co 747 Windsor St Hartford 1 Conn 21 Crown Controls Co 40 S Washington St New Bremen Ohio 45 Crucible Steel Co of America Henry W Oliver Bldg Pittsburgh 22 Pa 15-44 Daco Instrument Co Tillary & Prince Sts Brooklyn 1 NY 13 Dahlstrom Metallic Door Co Buffalo & 2 Sts Jamestown NY 52 Dale Products Inc Columbus Nebr 3 Dallons Labs 5066 Santa Monica Blvd Los Angeles 29 Calif 8-12-21-28 Dalmo Victor Co Div Textron Inc 1515 Industrial Way Belmont Calif 14 Dampp-Chaser Inc Box 520 Hendersonville NC 13
Machines, shock festing       40         Machines, soldering       41         Machines, weighing       42         Machines, wirestripping       43         Magnetizers       44         Material handling equipment       45         Ovens, crystal       46         Ovens, temperature controlled       47         Pots & tanks, heating       48         Pressurization units       49         Pumps, high vacuum       57         Pumps, metering       50         Punch presses       51         Racks, relay       52         Stamps, marking       53         Stills & demineralizers       54         Titration apparatus, electronic       55         Welders       56         Abalon Precision       Mfg Corp         540 Casanova St New York 59 NY       52         Abbeon       Supply Co         0179-15 Jamaica Ave Jamaica 32 NY       13	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Atmosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Elizabeth NJ 36-41 Baker Bros Post & Harleau Sts Toledo 10 Ohio Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass Barnstead Still & Demineralizer Co 253 Lanesville Terrace Boston 31 Mass Barnsteat Co Leon J P O Box 378 Worcester 1 Mass Bach-Russ Co 50 Church St New York 7 NY Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich Bendix Aviation Corp Pioneer-Central Div 2734 Hickory Grove Rd Davenport Iowa Berg Mfg Corp 142 Reno St New Cumberland Pa Berkeley Crystal Co 1740 University Ave Berkeley 3 Calif Bernard Franklin Co 4155 E Hedley St Philadelphia 37 Pa 45-52	1467 S Michigan Ave Chicago 5 III   34-45-48
Machines, shock festing       40         Machines, soldering       41         Machines, weighing       42         Machines, wirestripping       43         Magnetizers       44         Material handling equipment       45         Ovens, crystal       46         Ovens, temperature controlled       47         Pots & tanks, heating       48         Pressurization units       49         Pumps, high vacuum       57         Pumps, metering       50         Punch presses       51         Racks, relay       52         Stamps, marking       53         Stills & demineralizers       54         Titration apparatus, electronic       55         Welders       56         Abalon Precision Mfg Corp       54         540 Casanova St New York 59 NY       52         Abbeon Supply Co       179-15 Jamaica Ave Jamaica 32 NY         Ackerman-Gould Co       13	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Atmosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Elizabeth NJ 36-41 Baker Bros Post & Harleau Sts Toledo 10 Ohio Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass Barnstead Still & Demineralizer Co 253 Lanesville Terrace Boston 31 Mass 54 Barrett Co Leon J P O Box 378 Worcester 1 Mass Barrett Russ Co 50 Church St New York 7 NY 57 Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich Bendix Aviation Corp Pioneer-Central Div 2734 Hickory Grove Rd Davenport Iowa Berg Mfg Corp 142 Reno St New Cumberland Pa 3 Berkeley Crystal Co 1740 University Ave Berkeley 3 Calif Bernard Franklin Co 4155 E Hedley St Philadelphia 37 Pa 45-52 Bethlehem Apparatus Co Front & Depot Sts Hellertown Pa 32 Bio-Rad Labs 800 Delaware St Berkeley Calif	1467 S Michigan Ave Chicago 5 Ill 34-45-48 Cosa Corp 405 Lexington Ave New York 17 NY 22-25-26-31 Cox & Co 115 E 23 St New York 10 NY 46-47 Craig Systems Inc 90 Holten St Danvers Mass 52 Cro-Plate Co 747 Windsor St Hartford 1 Conn 21 Crown Controls Co 40 S Washington St New Bremen Ohio 45 Crucible Steel Co of America Henry W Oliver Bldg Pittsburgh 22 Pa 15-44 Daco Instrument Co Tillary & Prince Sts Brooklyn 1 NY 13 Dahlstrom Metallic Door Co Buffalo & 2 Sts Jamestown NY 52 Dale Products Inc Columbus Nebr Dallons Labs 5066 Santa Monica Blvd Los Angeles 29 Calif 8-12-21-28 Dalmo Victor Co Div Textron Inc 1515 Industrial Way Belmont Calif Dampp-Chaser Inc Box 520 Hendersonville NC 13 Davenport Mfg Co 1713 N Ashland Ave Chicago 22 Ill Del Electronics Corp
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Machines, shock festing       40         Machines, soldering       41         Machines, weighing       42         Machines, wirestripping       43         Magnetizers       44         Material handling equipment       45         Ovens, crystal       46         Ovens, temperature controlled       47         Pots & tanks, heating       48         PressurIzation units       49         Pumps, high vacuum       57         Pumps, metering       50         Punch presses       51         Racks, relay       52         Stamps, marking       53         Stills & demineralizers       54         Titration apparatus, electronic       55         Welders       56         Abalon Precision Mfg Corp       54         Abeon Supply Co       179-15 Jamaica Ave Jamaica 32 NY         Ackerman-Gould Co       92 Bleecker St New York 12 NY       36         Acme Electric Heating Co       1217 Washington St Boston 18 Mass       47         Acoustica Associates       47	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Atmosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Elizabeth NJ 36-41 Baker Bros Post & Harleau Sts Toledo 10 Ohio 16 Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass 3 Barnstead Still & Demineralizer Co 253 Lanesville Terrace Boston 31 Mass 54 Barrett Co Leon J P O Box 378 Worcester 1 Mass 34 Beach-Russ Co 50 Church St New York 7 NY 57 Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich 8 Bendix Aviation Corp Pioneer-Central Div 2734 Hickory Grove Rd Davenport Iowa 8 Berg Mfg Corp 142 Reno St New Cumberland Pa 3 Berkeley Crystal Co 1740 University Ave Berkeley 3 Calif 11 Bernard Franklin Co 4155 E Hedley St Philadelphia 37 Pa 45-52 Bethlehem Apparatus Co Front & Depot Sts Hellertown Pa 32 Bio-Rad Labs 800 Delaware St Berkeley Calif 54 Bios Labs Inc 17 W 60 St New York 23 NY 13-14	1467 S Michigan Ave Chicago 5 Ill 34-45-48  Cosa Corp 405 Lexington Ave New York 17 NY 22-25-26-31  Cox & Co 115 E 23 St New York 10 NY 46-47  Craig Systems Inc 90 Holten St Danvers Mass Cro-Plate Co 747 Windsor St Hartford 1 Conn 21  Crown Controls Co 40 S Washington St New Bremen Ohio 45  Crucible Steel Co of America Henry W Oliver Bldg Pittsburgh 22 Pa 15-44  Daco Instrument Co Tillary & Prince Sts Brooklyn 1 NY 13  Dahlstrom Metallic Door Co Buffalo & 2 Sts Jamestown NY 52  Dale Products Inc Columbus Nebr 3 Sts Jamestown NY 52  Dallons Labs 5066 Santa Monica Blvd Los Angeles 29 Calif 8-12-21-28  Dalmo Victor Co Div Textron Inc 1515 Industrial Way Belmont Calif 14  Dampp-Chaser Inc Box 520 Hendersonville NC 13  Davenport Mfg Co 1713 N Ashland Ave Chicago 22 Ill 3  Del Electronics Corp 4 W N Mac Questen Pkwy Mt Vernon NY Delta Chemical Works 23 W 60 St New York 23 NY 13-14
Machines, shock festing       40         Machines, soldering       41         Machines, weighing       42         Machines, wirestripping       43         Magnetizers       44         Material handling equipment       45         Ovens, crystal       46         Ovens, temperature controlled       47         Pots & tanks, heating       48         Pressurization units       49         Pumps, high vacuum       57         Pumps, metering       50         Punch presses       51         Racks, relay       52         Stamps, marking       53         Stills & demineralizers       54         Titration apparatus, electronic       55         Welders       56         Abalon Precision Mfg Corp       540         Casanova St New York 59 NY       52         Abbeon Supply Co       179-15 Jamaica Ave Jamaica 32 NY         Ackerman-Gould Co       92 Bleecker St New York 12 NY       36         Acme Electric Heating Co       1217 Washington St Boston 18 Mass       47         Acoustica Associates       Shore Rd	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Atmosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Elizabeth NJ 36-41 Baker Bros Post & Harleau Sts Toledo 10 Ohio Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass Barnstead Still & Demineralizer Co 253 Lanesville Terrace Boston 31 Mass 54 Barrett Co Leon J P O Box 378 Worcester 1 Mass Barrett Ros Co 50 Church St New York 7 NY 57 Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich Bendix Aviation Corp Pioneer-Central Div 2734 Hickory Grove Rd Davenport Iowa Berg Mfg Corp 142 Reno St New Cumberland Pa 3 Berkeley Crystal Co 1740 University Ave Berkeley 3 Calif Bernard Franklin Co 4155 E Hedley St Philadelphia 37 Pa 45-52 Bethlehem Apparatus Co Front & Depot Sts Hellertown Pa Bio-Rad Labs 800 Delaware St Berkelcy Calif Bios Labs Inc 17 W 60 St New York 23 NY 13-14 Black & Decker Mfg Co E Penna Ave Towson 4 Md Black & Webster Inc	1467 S Michigan Ave Chicago 5 Ill 34-45-48 Cosa Corp 405 Lexington Ave New York 17 NY 22-25-26-31 Cox & Co 115 E 23 St New York 10 NY 46-47 Craig Systems Inc 90 Holten St Danvers Mass Cro-Plate Co 747 Windsor St Hartford 1 Conn 21 Crown Controls Co 40 S Washington St New Bremen Ohio 45 Crucible Steel Co of America Henry W Oliver Bldg Pittsburgh 22 Pa 15-44 Daco Instrument Co Tillary & Prince Sts Brooklyn 1 NY 13 Dahlstrom Metallic Door Co Buffalo & 2 Sts Jamestown NY 52 Dale Products Inc Columbus Nebr 3 Dallons Labs 5066 Santa Monica Blvd Los Angeles 29 Calif 8-12-21-28 Dalmo Victor Co Div Textron Inc 1515 Industrial Way Belmont Calif 14 Dampp-Chaser Inc Box 520 Hendersonville NC 13 Davenport Mfg Co 1713 N Ashland Ave Chicago 22 Ill 3 Del Electronics Corp 4 N Mac Questen Pkwy Mt Vernon NY 15 Denison Eng'g Div American Brake Shoe
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Machines, shock festing       40         Machines, soldering       41         Machines, weighing       42         Machines, wirestripping       43         Magnetizers       44         Material handling equipment       45         Ovens, crystal       46         Ovens, temperature controlled       47         Pots & tanks, heating       48         Pressurization units       49         Pumps, high vacuum       57         Pumps, metering       50         Punch presses       51         Racks, relay       52         Stamps, marking       53         Stills & demineralizers       54         Titration apparatus, electronic       55         Welders       56         Abalon Precision Mfg Corp       540         Casanova St New York 59 NY       52         Abbeon Supply Co       179-15 Jamaica Ave Jamaica 32 NY       13         Ackerman-Gould Co       92 Bleecker St New York 12 NY       36         Acme Electric Heating Co       1217 Washington St Boston 18 Mass       47         Acoustica Associates       Shore Rd       Glenwood Landing LI NY       8-16-21-34-41         Acromark Co       443 Monrell St Elizabeth 4 NJ <th>Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Atmosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Elizabeth NJ 36-41 Baker Bros Post &amp; 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Machines, shock festing       40         Machines, soldering       41         Machines, weighing       42         Machines, wirestripping       43         Magnetizers       44         Material handling equipment       45         Ovens, crystal       46         Ovens, temperature controlled       47         Pots & tanks, heating       48         Pressurization units       49         Pumps, high vacuum       57         Pumps, metering       50         Punch presses       51         Racks, relay       52         Stamps, marking       53         Stills & demineralizers       54         Titration apparatus, electronic       55         Welders       56         Abalon Precision Mfg Corp       54         540 Casanova St New York 59 NY       52         Abbeon Supply Co       179-15 Jamaica Ave Jamaica 32 NY       13         Ackerman-Gould Co       92 Bleecker St New York 12 NY       36         Acme Electrio Heating Co       1217 Washington St Boston 18 Mass       47         Acustica Associates       Shore Rd       Glenwood Landing LI NY       8-16-21-34-41         Acromark Co       443 Monrell St Elizabeth 4 NJ<	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Atmosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Elizabeth NJ 36-41 Baker Bros Post & Harleau Sts Toledo 10 Ohio Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass Barnstead Still & Demineralizer Co 253 Lanesville Terrace Boston 31 Mass 54 Barrett Co Leon J P O Box 378 Worcester 1 Mass Barrett Russ Co 50 Church St New York 7 NY 57 Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich Bendix Aviation Corp Pioneer-Central Div 2734 Hickory Grove Rd Davenport Iowa Berg Mfg Corp 142 Reno St New Cumberland Pa 3 Berkeley Crystal Co 1740 University Ave Berkeley 3 Calif Bernard Franklin Co 4155 E Hedley St Philadelphia 37 Pa 45-52 Bethlehem Apparatus Co Front & Depot Sts Hellertown Pa 32 Bio-Rad Labs 800 Delaware St Berkelcy Calif 54 Bios Labs Inc 17 W 60 St New York 23 NY 13-14 Black & Decker Mfg Co E Penna Ave Towson 4 Md Black & Webster Inc 445 Watertown St Newton 58 Mass 39 Blue M Electric Co 138 & Chatham St	Cosa Corp 405 Lexington Ave New York 17 NY 22-25-26-31 Cox & Co 115 E 23 St New York 10 NY 46-47 Craig Systems Inc 90 Holten St Danvers Mass 52 Cro-Plate Co 747 Windsor St Hartford 1 Conn Crown Controls Co 40 S Washington St New Bremen Ohio 45 Crucible Steel Co of America Henry W Oliver Bldg Pittsburgh 22 Pa 15-44 Daco Instrument Co Tillary & Prince Sts Brooklyn 1 NY 13 Dahlstrom Metallic Door Co Buffalo & 2 Sts Jamestown NY 52 Dale Products Inc Columbus Nebr Dallons Labs 5066 Santa Monica Blvd Los Angeles 29 Calif Balmo Victor Co Div Textron Inc 1515 Industrial Way Belmont Calif Dampp-Chaser Inc Box 520 Hendersonville NC 13 Davenport Mfg Co 1713 N Ashland Ave Chicago 22 Ill 30 Del Electronics Corp 4 N Mac Questen Pkwy Mt Vernon NY Delta Chemical, Works 23 W 60 St New York 23 NY Delta Chemical, Works 23 W 60 St New York 23 NY Denison Eng'g Div American Brake Shoe 1160 Dublin Rd Columbus 16 Ohio 29-32-35-37-38-50-51 Devoc Eng'g Inc PO Box 387 Caldwell NJ
Machines, shock festing       40         Machines, soldering       41         Machines, weighing       42         Machines, wirestripping       43         Magnetizers       44         Material handling equipment       45         Ovens, crystal       46         Ovens, temperature controlled       47         Pots & tanks, heating       48         Pressurization units       49         Pumps, high vacuum       57         Pumps, metering       50         Punch presses       51         Racks, relay       52         Stamps, marking       53         Stills & demineralizers       54         Titration apparatus, electronic       55         Welders       56         Abalon Precision Mfg Corp       54         540 Casanova St New York 59 NY       52         Abbeon Supply Co       179-15 Jamaica Ave Jamaica 32 NY       13         Ackerman-Gould Co       92 Bleecker St New York 12 NY       36         Acme Electrio Heating Co       1217 Washington St Boston 18 Mass       47         Acoustica Associates       Shore Rd       Glenwood Landing LI NY       8-16-21-34-41         Acromark Co       443 Monrell St Elizabeth 4 NJ<	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Atmosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Elizabeth NJ 36-41 Baker Bros Post & Harleau Sts Toledo 10 Ohio Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass Barnstead Still & Demineralizer Co 253 Lanesville Terrace Boston 31 Mass Barrett Co Leon J P O Box 378 Worcester 1 Mass Bach-Russ Co 50 Church St New York 7 NY 57 Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich Bendix Aviation Corp Pioneer-Central Div 2734 Hickory Grove Rd Davenport Iowa Berg Mfg Corp 142 Reno St New Cumberland Pa 3 Berkeley Crystal Co 1740 University Ave Berkeley 3 Calif Bernard Franklin Co 4155 E Hedley St Philadelphia 37 Pa 45-52 Bethlehem Apparatus Co Front & Depot Sts Hellertown Pa Bio-Rad Labs 800 Delaware St Berkelcy Calif Bios Labs Inc 17 W 60 St New York 23 NY 13-14 Black & Webster Inc 445 Watertown St Newton 58 Mass 39 Blue M Electric Co 138 & Chatham St Blue Island Ill 5-6-7-18-47-48	1467 S Michigan Ave Chicago 5 Ill 34-45-48 Cosa Corp 405 Lexington Ave New York 17 NY 22-25-26-31 Cox & Co 115 E 23 St New York 10 NY 46-47 Craig Systems Inc 90 Holten St Danvers Mass Cro-Plate Co 747 Windsor St Hartford 1 Conn 21 Crown Controls Co 40 S Washington St New Bremen Ohio 45 Crucible Steel Co of America Henry W Oliver Bldg Pittsburgh 22 Pa 15-44 Daco Instrument Co Tillary & Prince Sts Brooklyn 1 NY 13 Dahlstrom Metallic Door Co Buffalo & 2 Sts Jamestown NY 52 Dale Products Inc Columbus Nebr 3 Columbus Nebr 3 Dallons Labs 5066 Santa Monica Blvd Los Angeles 29 Calif 8-12-21-28 Dalmo Victor Co Div Textron Inc 1515 Industrial Way Belmont Calif 14 Dampp-Chaser Inc Box 520 Hendersonville NC 13 Davenport Mfg Co 1713 N Ashland Ave Chicago 22 Ill 3 Del Electronics Corp 4 N Mac Questen Pkwy Mt Vernon NY 15 Denison Eng'g Div American Brake Shoe 1160 Dublin Rd Columbus 16 Ohio 29-32-35-37-38-50-51 Devo Eng'g Inc PO Box 387 Caldwell NJ 17 Development Eng'g Co
Machines, shock festing       40         Machines, soldering       41         Machines, weighing       42         Machines, wirestripping       43         Magnetizers       44         Material handling equipment       45         Ovens, crystal       46         Ovens, temperature controlled       47         Pots & tanks, heating       48         Pressurization units       49         Pumps, high vacuum       57         Pumps, metering       50         Punch presses       51         Racks, relay       52         Stamps, marking       53         Stills & demineralizers       54         Titration apparatus, electronic       55         Welders       56         Abalon Precision Mfg Corp       54         54       Titration apparatus, electronic       55         Welders       56         Abalon Precision Mfg Corp       54         54       Titration apparatus, electronic       55         Abeon Supply Co       179-15 Jamaica Ave Jamaica 32 NY       13         Ackerman-Gould Co       92 Bleecker St New York 12 NY       36         Acme Electric Heating Co       1217 Washington St Boston 18 Ma	Associated Testing Labs 409 Clinton Rd Caldwell NJ 5-6-7-47 Atmosphere Control Co 5315 Chester Ave Philadelphia 43 Pa 5 Automatic Methods Inc 965 W Grand St Elizabeth NJ 36-41 Baker Bros Post & Harleau Sts Toledo 10 Ohio Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass Barnstead Still & Demineralizer Co 253 Lanesville Terrace Boston 31 Mass Barnstead Still & Demineralizer Co 253 Lanesville Terrace Boston 31 Mass Barnett Co Leon J P O Box 378 Worcester 1 Mass Breach-Russ Co 50 Church St New York 7 NY Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich Bendix Aviation Corp Pioneer-Central Div 2734 Hickory Grove Rd Davenport Iowa Berg Mfg Corp 142 Reno St New Cumberland Pa 3 Berkeley Crystal Co 1740 University Ave Berkeley 3 Calif Bernard Franklin Co 4155 E Hedley St Philadelphia 37 Pa 45-52 Bethlehem Apparatus Co Front & Depot Sts Hellertown Pa Bio-Rad Labs 800 Delaware St Berkelcy Calif 54 Bios Labs Inc 17 W 60 St New York 23 NY 13-14 Black & Decker Mfg Co E Penna Ave Towson 4 Md Black & Webster Inc 445 Watertown St Newton 58 Mass 39 Blue M Electric Co 133 & Chatham St Blue Island Ill Boesch Mfg Co 45 River St Danbury Conn 25-26-27	Cosa Corp 405 Lexington New York 17 NY 22-25-26-31 Cox & Co 115 E 23 St New York 10 NY 46-47 Craig Systems Inc 90 Holten St Danvers Mass Cro-Plate Co 747 Windsor St Hartford 1 Conn Crown Controls Cox 40 S Washington St New Bremen Ohio 45 Crucible Steel Co of America Henry W Oliver Bldg Pittsburgh 22 Pa 15-44 Daco Instrument Co Tillary & Prince Sts Brooklyn 1 NY Dahlstrom Metallic Door Co Buffalo & 2 Sts Jamestown NY Dale Products Inc Columbus Nebr Dallons Labs 5066 Santa Monica Blvd Los Angeles 29 Calif Dampp-Chaser Inc Box 520 Hendersonville NC 13 Davenport Mfg Co 1713 N Ashland Ave Chicago 22 Ill 30 Elelectronics Corp 4 N Mac Questen Pkwy Mt Vernon NY Delta Chemical Works 23 W 60 St New York 23 NY Denison Eng'g Div American Brake Shoe 1160 Dublin Rd Columbus 16 Ohio 29-32-35-37-38-50-51 Devco Eng'g Inc PO Box 387 Caldwell NJ Development Eng'g Co 9 Cross St Norwalk Conn 5-6-7
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2706 W Van Buren St Chicago 12 Ill	41
Dumore Co 1300 17 St Racine Wisc	16
Eastern Industries Inc	
Eastman Pacific Co	
Eclipse Fuel Eng'g Co	47
Eastman Pacific Co 2320 E 8 St Los Angeles 21 Calif Eclipse Fuel Eng'g Co 1100 Buchanan Rockford Ill Eisler Eng'g Co	19
750 S 13 St Newark 3 NJ 18-21-25-30-31-32-33-47 Electrical Specialty Co	-56
Electrical Specialty Co	
158 11 St San Francisco 3 Calif Electric Furnace Co	25
Electric Hotpack Co	-19
Cottman Ave & Melrose St Philadelphia 35 Pa 18-46	-47
Electronic Brazing Co	
Electronic Designs Inc 28 School St Yonkers NY Ellis & Watts Products Inc P O Box 33 Cincinnati 36 Ohio Elmes Eng'g Div American Steel Foundries 1150 Tennessee Ave Cincinnati 29 Ohio	25
Ellis & Watts Products Inc	20
Elmes Eng'g Div American Steel Foundries	1
	-38
Elm Labs 10 Washington Ave	
Hastings-on-Hudson NY Elzee Metal Products Co 775 39 St Brooklyn 32 NY	46
Emerson-Suck-Wormon Com-	17
85 Washington St Somerville 43 Mass 13-17-47	-48
85 Washington St Somerville 43 Mass Enthone Inc 442 Elm St New Haven 8 Conn Environmental Equipment Co 369 Linden St Brooklun 27 NV	8
369 Linden St Brooklyn 27 NY 5-6	6-7
	-41
Ewald Instruments Route 7E Kent Conn	15 56
Factory Service Co 4615 N 21 St Milwaukee 9 Wisc Falstrom Co Falstrom Court Passaic NJ Federal Telephone & Padio Co Din Uter	45
	52
100 Kingsland Rd Clifton NJ Feiner & Sons P 522 W 45 St New York 36 NY 17-	52
renows dear Shaper Co	-52
78 River St Springfield Vt First Electronics Corp 117 Blue Hill Ave Boston 19 Mass Fisher Scientific Co.	38
117 Blue Hill Ave Boston 19 Mass Fisher Scientific Co 711 Forbes St Pittsburgh 22 Pa 47-	43
rorbes & Wagner Inc	55
343 Central Ave Silver Creek NY Forter-Teichmann Co 1212 Clark Bldg Pittsburgh 22 Pa 18-	25
rostoria rressed Steel Corp	19
N Main St Fostoria Ohio Garrett Corp AiResearch Mfg Co Div	47
9851 Sepulveda Blvd Los Angeles 45 Calif	1
Gates Radic Co 123 Hampshire St Quincy III General Crystal Co P. O. Box 9 Rurlington Wice	52
General Electric Co	12
Box 237 Roosevelt Park Annex Detroit 32 Mich	44
1 River Rd Schenectady 5 NV 18-19-	48
555 23 St S Arlington 2 Va	8
General Nuclear Corp	8
550 5 Ave New York 32 NY General RF Fittings Inc 702 Beacon St Boston 15 Mass	3
General Transistor Corp	
Gisholt Machine Co	11
Green Instrument Co	22
Gries Reproducer Corp	31
Grieve-Hendry Co	53
Griffin Co John	
Guild Electronics Inc	53
Gulton Industries Inc	38
212 Durham Ave Metuchen NJ Halm Instrument Co	8
100 Glen Head Rd Glen Head NY 2-3-25- Haloid Co Haloid St Rochester 3 NY	41 23
Harder Co Donald C 3710 Midway Dr San Diego 10 Calif	26
Hardman Co H V 571 Cortlandt St Belleville 9 NJ	50
Harper Electric Furnace Corp	18
Harshaw Chemical Co	
Helder Mfg Corp 238 Lewis St Paterson N.I.	
Hevi-Duty Electric Co 4212 W Highland Blvd	
Milwaukee 1 Wisc Hickok Electrical Instrument Co	18
	22
313 Norton St Rochester 21 NY 16-36-39-	43

High Vacuum Equipment Corp 2 Churchill Rd Hingnam Mass Hill Electronic Eng'g & Mfg Co New Kingstown Pa	11-18
New Kingstown Pa Hobert bros Hobert Square E Troy 3	46-47 ()hio 56
Hobart Bros Hobart Square E Troy 3 Hoffman Co P R 321 Cherry St Carlisle Pa	28
Hoover Electronics Co 3640 Woodland Ave Baltimore 7 M	d 3
Howard Crystal Holders Inc 2600 Grand Ave Kansas City 8 Mo	46
Hull Corp 1941 Woodland Rd Abington Pa Hull-Standard Corp Abington Pa	
Hunt Corp 453 Lincoln St Carlisle Pa	46-47
Hunt Corp 453 Lincoln St Carlisle Pa Hupp Electronics Co Div Hupp Corp 743 Circle Ave Forest Park III	46
Huppert Co K H 6830 Cottage Grove Ave Chicago 37 Hydraulic Press Mfg Co Div Acebri Marion Rd Mt Gilead Chio	111 18-47
Marion Rd Mt Gilead Chio Ideal-Aerosmith Inc	29-37-38
12909 S Cerise Ave Hawthorne Ca Ideal Industries Inc	alif 49
5127 Park Ave Sycamore III iE Mfg 325 Hoyne Ave Chicago 12	15-43 III 52
Impact-O-Graph Corp 1900 Euclid Ave Cleveland 15 Ohio	40
1900 Euclid Ave Cleveland 15 Ohio Induction Heating Corp 181 Wythe Ave Brooklyn 11 NY Industrial Electronic Engineers	41
Industrial Electronic Engineers 3973 Lankershim Blvd N Hollywood Calif	27-45
Industrial Winding Machinery Co 120 Wall St New York 5 NY Ingersoll-Rand Co	25
11 Broadway New York 4 NY	9
Instrumentation Associates 17 W 60 St New York 23 NY	32
Insuline Corp of America 186 Granite St Manchester NH International Radiant Corp	17-52
4 Manhasset Ave Port Washington NY	5-6-7-40
International Research & Davelonme	ant Corn
797 Thomas Lane Columbus 16 Oh Jan Hardware Mfg Co 75 N 11 St Brooklyn 11 NY Jeffrey Mfg Co	40
803 N 4 St Columbus 16 Unio	10-45
Jodee Plastics Co 213 Shepherd Ave Brooklyn 8 NY Kahle Eng'g Co 1307 7 St 11-12-18	45
N Hergen N.I 30-32-33	-36-46-56
Kahn & Co 541 Windsor St Hartford 1 Conn Kane Mfg Corp PO Box 641 Kane Pa	13-14-49
Kane Mfg Corp PO Box 641 Kane Pa	52
Kelley & Co U G 98 Taylor St Boston 22 Mass Kineyov-Hallen Div Floatrometica Co	54
1333 Fulton St Grand Haven Mich Kelley & Co O G 98 Taylor St Boston 22 Mass Kinevox-Hallen Div Electromation Co 1646 18 St Santa Monica Calif Kinney Mfg Div Vacuum Equip Div	15
3529 Washington St	
Klein Electronics Co Leo	-28-34-46
2404 S LaBrea Ave Los Angeles 16 Kollsman Instrument Corp Sub Standard Coil Products 80-08	Calif 44
45 Ave Elmhurst 73 NY	49
Kreuter & Co 585 18 Ave Newark 3 NJ Krengel Mfg Co	30
227 Fulton St New York 7 NY Labline Inc	53
Labline Inc 3070 W Grand Ave Chicago 22 Ill	6-6-7-8-47
Lamaco Inc 9230 W Grand Ave Franklin Park I Lamson Corp	11 35
Lamson St Syracuse 1 NY Lapp Insulator Co Radio Specialties	10-45 Div
24 Summer St LeRoy NY Lavoie Labs Inc	50
Matawan-Freehold Rd Morganville Lear Inc	
3171 S Bundy Drive Santa Monica Lemert Eng'g Co	Calif 49
201 E Jefferson St Plymouth Ind Leiman Bros 146 Christie St Newark 5 NJ	39 57
146 Christie St Newark 5 NJ Lennard Co P M P O P O Box 56 Village Sta	91
Lenel High Frequency Labo	6-7-13-17
54-18 37 Ave Woodside 77 NY Levin & Son Louis 3610 S Broadway Los Ange'es 7 Ca	11-12
dibrascope the Commercial Div	
133 E Santa Anita Ave Burbank Co Lincoln Electric Co 22801 St Clair Ave Cleveland 17 Or	
22801 St Clair Ave Cleveland 17 Ob Lindberg Eng'g Co 2450 W Hubbard St Chicago 12 Ill Link-Belt Co Prudential Plaza Chicago 1 Ill	18-19
Link-Belt Co Prudential Plaza Chicago 1 Ill	10-45
PO Box 949	00 07
Grass Valley Calif	32-37-57

Loewy-Hydropress Div Baldwin-Lima-Hamiston Corp
111 5 Ave New York 3 NY 29-3 Lowell Mfg Co
3030 Laclede Station Rd St Louis 17 Mo 8
Lufkin Rule Co 1730 Hess St Saginaw Mich
Luma Electric Equipment Co PO Box 132 Toledo 1 Ohio
Lydon Bros 85 Zabriskie St Hackensack NJ 18-19-4
McCoy Electronics Co Chestnut & Watts Sts
Chestnut & Watts Sts Mt Holly Springs Pa McKenna Laboratories
2503 Main St Santa Monica Calif Magnaflux Corp
7300 W Lawrence Ave Chicago 31 Ill 15-4 Maikin-Illion Co
400 Coit St Irvington 11 NJ 17-5 Manson Laboratories Inc
201 Greenwich Ave Stamford Conn
Marix Chemical Co 1021 E 55 St Chicago 15 III 1 Markem Machine Co
150 Congress St Keene NH Markwik Mfg Co
31 Sexton Rd Plainview LI NY
Marshalltown Mfg Co 810 E Nevada St Marshalltown Iowa 5
Martindale Electric Co Box 617 Edgewater Branch
Cleveland 7 Ohio 1 Matthews & Co Jas H
3956 Forbes St Pittsburgh 13 Pa 36-5 Measurement Eng'g Ltd
232 John St Arnprior Ontario Can Mech-Tronic Equipment Co
PO Box 510 Silver Spring Med 18-4 Metal Fabricators Corp
73 Pond St Waltham 54 Mass 10-17-4 Metal Specialty Products Corp
27-01 Brooklyn Queens Expressway
W Woodside 77 NY Mico Instrument Co
80 Trowbridge St Cambridge 38 Mass 26-3 Mid-West Conveyer Co Metal Products Div
Kansas City 15 Kan 10-17-45-5
Mil Case Corp 35-18 37 St Long Island City NY 17-45-5
35-18 37 St Long Island City NY 17-45-5 Milford Rivet & Machine Co 857 Bridgeport Ave Milford Conn 3
Miller-Troins Co
3 North Ridge Ave Troy Ohio 2 Mobil Electronics Mfg Co 1111 State Rd 67 E Anderson Ind 17-5 Modern Laboratory Equip Co 1811 1 Ave New York 28 NY 1-18-4
Modern Laboratory Equip Co
Moore Corp John B PO Box 3 Dept EI Peerless Bldg
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PO Box 3 Dept EI Peerless Bldg Nutley 10 NJ Morganite Inc 33002 48 Ave Long Island City 1 NY
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PO Box 3 Dept EI Peerless Bldg Nutley 10 NJ Morganite Inc 33002 48 Ave Long Island City 1 NY Motiograph Inc 4441 W Lake St Chicago 24 Ill 5 Multiplastics 770 W Factory Rd Addison Ill Murphy & Miller 1326 S Michigan Ave Chicago 5 Ill National Vulcanized Fibre Co P O Box 311 Wilmington 99 Dela Nelson Vacuum Pump Co Geo F 2133 4 St Berkeley 10 Calif Nemeth Inc 2223 S Carmelina Ave Los Angeles 64 Calif New England Oven & Furnace Co 385 Boston Post Rd Orange Conn New Hermes Engraving Machine Corp 13 University Pl New York 3 NY New Rochelle Tool Corp 320 Main St New Rochelle NY New York Air Brake Co 230 Park Ave New York 17 NY North American Instruments Inc 2420 N Lake St Altadena Calif North Electric Co
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Par-Metal Products Corp	Standard Tool & Mfg Co 237 Laurel Ave Kearny NJ 3-30-32	Whittington Pump & Eng'g Corp 1126 Prospect St Indianapolis 3 Ind 57
32-62 49 St Long Island City 3 NY 52 Peck & harvey Mfg Corp	Sta-Warm Electric Co	Whitney Metal Tool Co
5650 N Western Ave Chicago 45 Ill 23	553 N Chestnut St Ravenna Ohio 48 Steiner Ives Co 6-13-14-18	110 Forbes St Rockford III 51 Wiancko Eng'g Co
l'eer Inc 1200 Milton St Benton Harbor Mich 56	Springfield Rd Union NJ 19-30-32-47	255 Halstead St Pasadena Calif 52
Pereny Equipment Co	Stevens Mfg Co Geo 6022 N Rogers Ave Chicago 30 Ill 25-26-43	Wiedemann Machine Co 4275 Wissahickon Ave
893 Chambers Rd Columbus 12 Ohio 18-47 Phillips Mfg Co	Stewart Eng'g Co	Philadelphia 32 Pa 37-51
3475 W Touby Ave Chicago 45 Ill 8	Box 277 Soquel Calif 18-56-57	Wilder Mfg Co Mechanic St & Erie R R
Photobell Co 43 Vesey St New York 7 NY 27 Piqua Machine & Mfg Co	Stokes Corp F J 5500 Tabor Rd Philadelphia 20 Pa 57	Port Jervis NY 45
441 S College St Piqua Ohio 50	Stromberg-Carlson Div	Williamson Development Co 317 Main St W Cencord Mass 46
Pittsburgh Lectrodryer Div McGraw-Edison Co Foot 32 St Pittsburgh Pa 13-14	General Dynamics Corp 100 Carlson Rd Rochester 3 NY 52	Winder Aircraft Corp of Florida
Popper & Sons	Stone City Machine & Tool Co	PO Box 2397 Drane Field
300 4 Ave New York 10 NY 36 Potter Aeronautical Corp	1206 7 St Bedford Ind 24 Stokes Corp F J 18-24-30-34	Lakeland Fla 3-6-7-17-40-53 WYCO Metal Products
P O Box 532 Union NJ 27	5500 Tabor Rd Philadelphia 20 Pa 37-38-54	6918 Beck Ave N Hollywood Calif 52
Precision Crystal Lab 2223 Warwick Ave Santa Monica Calif 46	Studebaker Hydraulic Products Co 24-36 1733 N 33 Ave Melrose Park Ill 37-38-39	Wyzenbeek & Staff Inc 223 N California Ave Chicago 12 Ill 4
Preis Engraving Machine Co H P	Stueck Inc W Whitney	Young Brothers Co
651 U S Hwy 22 Hillside NJ 31-36 Premier Metal Products Co	Box 355 Old Saybrook Conn 37 Surface Combustion Corp	1831 Columbus Rd Cleveland 13 Obio 18-19-47
337 Manida St New York 59 NY 52	2375 Dorr St Toledo 1 Ohio 1-13-19-47	Cleveland 13 Ohio 18-19-47
Premier Research Labs Inc 79 7 Ave New York 11 NY 46	Swift & Sons M ?  10 Love Lane Hartford 1 Conn 36	70—RADAR DEVICES
Pres Industrial Equipment Ltd	Taffet Radio & TV Co	
Box 302 Putt Corners Rd N New Paltz NY 45	27-05 Brooklyn-Queens Expressway W Woodside 77 NY 17-52	Aircraft landing control
Prodalin Inc 307 Bergen Ave Kearny NJ 14	Taller & Cooper	Altimeters
Pye Telecommunications Ltd Newmarket Rd Cambridge England 2-46	75 Front St Brooklyn 1 NY 27 Tarzian Inc Sarkes	Antennas 3
Radio Eng'g Products Ltd	E Hillside Drive Bloomington Ind 52	Boards, plotting 4 Calibrators 5
1080 University St Montreal 3 Quebec Canada 52	Taylor-Winfield Corp 1052 Mahoning N W Warren Ohio 56	Calibrators 5 Indicators, moving target 6
Radio Frequency Labs Inc Boonton NJ 15-44	Technicraft Co	Indicators, plan position 7
Ramsey Radio & TV 925 St Louis Ave Vandalia III 15	1156 Commonwealth Ave Boston 34 Mass 31-41	Indicators, proximity 8
Raytheon Mfg Co	Telectro Industries Corp	Oscillographs9
100 River St Waltham 54 Mass 44-56 Red Point Corp	35-18 37 St Long Island City 1 NY 52 Teletronics Lab Inc	Radomes
1907 Riverside Dr Glendale 1 Calif 34-48-57	54 Kinkel St Westbury NY 47	Receivers 11
REF Mfg Corp 393 Jericho Turnpike Mineola NY 52	Temperature Eng'g Corp U S Hwy 130 Riverton NJ 5-6-7-46-47	Recording cameras
Remington Corp Willey St Auburn NY 13	Tenney Eng'g Inc 1090 Springfield Rd Union NJ 5-6-7-47	Transmitters
Republic Steel Corp Republic Bldg Cleveland 1 Ohio 45	Terrell Corp	
Rex Rheostat Co 3 Foxhurst Rd Baldwin LI NY 26	19 Lane St Waltham 54 Mass 35-48 Terris Div	Abrams Instrument Corp 606 E Shiawassee St Lansing 1 Mich 12
Richardson Labs Kenneth	Consolidated Siphon Supply Co	Advance Industries Inc
254 Vincent Ave Lynbrook NY 15-44 Rixon Electronics Inc	22 Wooster St New York 13 NY 7 Thermal Refractories Corp	640 Memorial Dr Cambridge 39 Mass 1-14
2414 Reedie Dr Silver Spring Md 46	4501 Dell Ave N Bergen NJ 6-11-18-19	Aero Electronics Co
Robbins Aviation 1735 W Florence Ave	Thomas Instrument Co Phoenix NY 43	1512 N Wells St Chicago 10 Ill Ainslie Corp
Los Angeles 47 Calif 14	Thomson Industries Inc 1029 Plandome Rd Manhasset NY 16	312 Quincy Ave Quincy 69 Mass
Robbins & Myers Inc 1345 Lagonda Ave Springfield Ohio 50	Toledo Scale Co	Aircom Inc 1209 E Grand St Elizabeth NJ
Robertshaw-Fulton Controls Co	1027 Telegraph Rd Toledo Chio 42 Topatron Inc	Air Transport Mfg Co
Aeronautical Div Santa Ana Freeway at Euclid Ave Anaheim Calif 46	942 E Ojai Ave Ojai Calif 17	1114 N Sycamore Ave Los Angeles 38 Calif
Robinson Inc Edward E Machinery Div 286 Preakness Ave Paterson 2 NJ 50	Topp Industries Inc 5255 W 102 St Los Angeles 45 Calif 37	Airtron Inc
Rockwell Co W S	Trane Co	1101 W Elizabeth Ave Linden NJ 3-11-14 Allied Engraving & Stamping Co
220 Eliot St Fairfield Conn 18-19-47 Roflan Co Topsfield Mass 14	Cameron & 2 St Lacrosse Wisc 1 Trop-Arctic Inc	17 Elm St Buffalo 3 NY
Rogan Bros 8031 N Monticello Skokie Ill 53	637 S Mulberry St Muncie Ind 5-6-7 Tubular Rivet & Stud Co	Alto Scientific Co 855 Commercial St Palo Alto Calif
Ronan & Kunzl 502 S Kalamazoo Ave Marshall Mich 6	Lindon St Wollaston 70 Mass 39	Amerac Inc 116 Topsfield Rd Wenham Mass 1-5-11-1-
Rotex Punch Co 2350 Alvarado St San Leandro Calif 37-51	Tuthill Pump Co 939 E 95 St Chicago 19 Ill	American Electronic Laboratories
Roy Co Milton	United Aircraft Products Inc	121 N 7 St Philadelphia 6 Pa
1300 E Mermaid Lane Philadelphia 18 Pa 50 Ruesch Machine Co H J	1116 Bolander Ave Dayton 1 Ohio 1 United Electric Controls Co	New Freedom Pa 1
407 Mulberry St Newark 2 NJ 37	85 School St Watertown 72 Mass 49	American Machine & Foundry Co
Ryerson & Son Joseph T 16 & Rockwell Sts Chicago 8 Ill 37	United Shoe Machinery Corp 140 Federal St Boston 7 Mass 3-10-37-39	Electronics Div 1085 Commonwealth Ave
Schauer Mfg Corp	United Transformer Corp	Boston 15 Mass 6-7-1
4501 Alpine Ave Rossmoyne Ohio 4 Schmidt Inc Geo T	Pacific Div 4008 W Jefferson Blvd Los Angeles 16 Calif 15	American Machine & Foundry Co Defense Products Group
4100 N Ravenswood Ave Chicago 13 111 36-53	Universal Winding Co PO Box 1605 Providence 1 RI 25	1101 N Royal St Alexandria Va 3-6-8-11-13-1
Sciaky Bros 4915 W 67 St Chicago 38 Ill 56	U S Controls Inc	Andrew Antenna Corp
Scientific Electric	161 Grand St New York 13 NY 27 U S Dynamics Corp 11-12-18	606 Beech St Whitby Ontario Can
Scientific Eng'g Lab	1250 Columbus Ave Boston 20 Mass 19-28	Andrew California Corp 941 E Marylind Ave Claremont Calif
2229 McGee Ave Berkeley Calif 57	Vacuum Specialties Co 77 Prospect St Somerville Mass 11-30	Andrew Corp
Scientific Glass Apparatus Co 100 Lakewood Terrace	Vacuum Tube Products Co	363 E 75 St Chicago 19 Ill Atlas Precision Products Co
Bloomfield NJ 18-32-47-55	506 S Cleveland St Oceanside Calif 56-57 Valpey Crystal Corp	3801 Castor Ave Philadelphia 24 Pa
Sel-Rex Corp 155 Manchester Pl Newark 4 NJ 8	1244 Highland St Holliston Mass 46-47	Avco Manufacturing Corp Crosley Div 1329 Arlington St Cincinnati 25 Ohio
Semimetals Inc 130-11 90 Ave Richmond Hill 18 NY 11-12	Vanton Pump & Equipment Corp 201 Sweetland Ave Hillside 5 NJ 50	Avion Div ACF Industries Inc
Sheppard Co R H	Vemaline Products Co	11 Park Pl Paramus NJ 2- Bell Aircraft Corp
101 Philadelphia St Hanover Pa 56 Shrader Co F W	Viking Pump Co	PO Box 1
11623 S Broadway Los Angeles 61 Calif 44	4 & Van Tassel Sts Cedar Falls Iowa 57 Virginia Electronics Co	Buffalo 5 NY 1-2-3-6-7-11-1 Belock Instrument Corp
South Bend Lathe Works	River Rd & B&C RR Washington 16 DC 41	111-01 14 Ave College Point 56 NY 3-
425 E Madison St South Bend 22 Ind 16-20 Southern Instruments Computer Div	Wabash Metal Products Co 1569 Morris St Wabash Ind 38	Bendix Aviation Corp Bendix Radio Div
Frimley Rd Camberley Surrey England 55	Wall Mfg Co P	East Joppa Rd Towson 4 Md 3-10-11-1
Southwest Products Inc. Alamo Downs Rt 4 San Antonio Texas 42	Grove City Pa 41 Walsco Electronics Mfg Co	Bendix Aviation Corp 1104 Fisher Bldg
Spaulding Fibre Co	100 W Green St Rockford Ill 15	Detroit 2 Mich 1-3-5-6-7-11-1
310 Wheeler St Tonawanda NY 45 Specialties Inc	Warren Plastics Corp Warren Pa 38	Benson-Lehner Corp 11930 W Olympic Blvd
Skunks Misery Rd Syosset LI NY 26	Welch Mfg Co W M	Los Angeles 64 Calif
Speedassembly Equipment Co Box 344 Fords NJ 2-3	1515 Sedgwick St Chicago 10 Ill 57 Weldmatic Div Unitek Corp	Berndt-Bach Inc Auricon Div 6900 Romaine St Hollywood 38 Calif
Spellman TV Co	380 N Halstead Ave Pasadena Calif 56	Birdair Structures Inc
3029 Webster Ave New York 67 NY 8 Stackbin Corp	West Coast Research Corp 237½ Westwood Blvd	290 Larkin St Buffalo 10 NY 3-1 B J Electronics Borg-Warner Corp
1079 Main St Pawtucket RI 2-45	Los Angeles 64 Calif 47	3300 Newport Ave Santa Ana Calif

14757 Keswick St Van Nuys Calif Bogart Mfg Corp	3	677 Beacon St Boston 15 Mass General Precision Lab Inc	5-11	307 Bergen Ave Kearny NJ Production Research Corp
315 Seigel St Brooklyn 6 NY 3	-10	63 Bedford Rd Pleasantville NY	12	Thornwood NY 3-5-11-1
Bolton Labs Inc W Main St Bolton Mass	2	Goodyear Aircraft Corp 1210 Massillon Rd Akron 15 Ohio	3-10-11	PSC Applied Research Ltd 1500 O'Connor Dr Toronto 16 Canada 1
Brach Mfg Corp 200 Central Ave Newark 3 NJ	3	Gordon Enterprises 5362 N Cahuenga Blvd		Pye Telecommunications Ltd Newmarket Rd Cambridge England
Breeze Corp		N Hollywood Calif Grem Eng'g Co	4-12	Q-Line Mfg Corp 1562 61 St Brooklyn 19 NY
700 Liberty Ave Union NJ Brooks & Perkins Inc	3	488 1 St Brooklyn 15 NY Hallicrafters Co	11-14	Radiation Eng'g Labs
Bruno-New York Industries Corn	3-4	4401 W 5 Ave Chicago 24 Ill	3-11-14	Main St Maynard Mass Radiation Inc P O Box 37 Melbourne Fla
460 W 34 St New York 1 NY Brush Electronics Co Div Clevite Corp	1	Hall-Scott Inc Electronics Div 2950 N Ontario St Burbank Calif	3	Radio Corp of America Camden 2 NJ 1 Raytheon Mfg Co
3405 Perkins Ave Cleveland 14 Ohio	9	Honeycomb Co of America 3 Burroughs St Bridgeport 8 Conn	10	100 River St Waltham 54 Mass 3-11-1 Reeves Instrument Corp
Budd Stanley Co 43-01 22 St Long Island City 1 NY	3	Industrial TV Inc 369 Lexington Ave Clifton NJ	9	215 E 91 St New York 28 NY 3-1
Burroughs Corp 6071 2 Ave Detroit 32 Mich 1-3-	4-8	Insuline Corp of America	4	Resdel Eng'g Corp 330 S Fair Oaks Ave Pasadena Calif 11-1
Cameraflex Corp 1947 Broadway New York 23 NY	12	156 Granite St Manchester NH I-T-E Circuit Breaker Co		RS Electronics Corp 435 Portage Ave Palo Alto Calif 3-1
Canoga Corp 5955 Sepulveda Blvd		Special Products Div 601 Erie Av Philadelphia 34 Pa	e 3-11	Rutherford Electronics Co 3707 S Robertson Blvd Culver City Calif
Van Nuys Calif 3-5-9-11	-14	Jarvis Electronics Corp 1140 Cherry St Winnetka Ill	7	Safe Flight Instrument Corp
CG Electronics Corp 305 Dallas St		Johnson Aircraft Eng'g Co M J Box 10 Morristown Airport		4 Water St White Plains NY Sanders Associates
Chicago Aerial Industries Inc	2-3	Morristown NJ	1	95 Canal St Nashua NH 3-11-1- Servo Corp of America
1980 N Hawthorne Ave Melrose Park Ill Chromatic Television Laboratories	12	J-V-M Eng'g Co 4633 S Lawndale Ave Lyons III	3-5	2020 Jericho Turnpike New Hyde Park NY
	12	Kaiser Aircraft & Electronics Corp Toledo Electronics Div		Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif
634 Waverly St Framingham Mass	3	P O Box 437 Toledo Ohio Keller Products Inc	11	Servonics Inc
Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham		41 Union St Manchester NH	10	822 N Henry St Alexandria Va Shepard Labs Inc
Worsley Bridge Rd Lower Sydenham London S E 26 England 9- Coaxial Connector Co	-12	Kennedy Co D S 155 King St Cohasset Mass	3-10	480 Morris Ave Summit NJ Silicone Insulation Inc
37 N 2 Ave Mt Vernon NY Computing Devices of Canada Ltd	3	Koch & Sons H Box 127 Corte Madera Calif	10	Seabury Ave & Butler Pl Bronx 61 NY 1 Simplex Equipment Corp
P O Box 508 Ottawa Ontario Can	4	Laboratory For Electronics Inc 75 Pitts St Boston 14 Mass	14	55 La France Ave Bloomfield NJ
Conrad & Moser 2 Borden Ave Long Island City 1 NY	3	Land-Air Inc Instrument & Electronic Div		Skiatron Electronics & TV Corp 180 Varick St 1-2-7-
Consolidated Avionics 66 Brooklyn Ave Westbury NY	1-5	2133 Adams Ave San Leandro Calif	1	New York 14 NY 11-13-1 Solartron Electronic Group Ltd
Continental Electronics Mfg Co	14	Lane Electronics Mfg Corp 7254 Atoll Ave N Hollywood Calif	2	Queens Rd Thames Ditton Surrey England Specialty Eng'g & Electronics Co
Corning Glass Works Corning NY	10	Las-Lab Inc 220 S Mt Olivet Lane Baltimore 29	Md 12	79 Clifton Pl Brooklyn 38 NY 1
Dalmo Victor Co Div Textron Inc 1515 Industrial Way Belmont Calif	3	Lavoie Labs Inc Matawan-Freehold Rd		Sperry Gyroscope Co Div Sperry Rand Corp Great Neck NY 3-5-1
Dayton Aviation Radio & Equipment Corp R R 3 Troy Ohio 3-	14	Morganville NJ	3-11-14	Spinform Inc 65 Mechanic St Attleboro Mass
Defiance Eng'g & Microwave Corp Beverly Airport Beverly Mass	3	Lear Inc 3171 S Bundy Drive		Stainless Inc 3 St North Wales Pa Stavid Eng'g Inc
Deltime Inc 608 Fayette Ave Mamaroneck NY		Santa Monica Calif Levinthal Electronic Products Inc	1	U S Route 22 Plainfield NJ 3-6-7-11-1- Stewart Warner Electronics Div
DeMornay-Bonardi Corp	5	3180 Hanover St Palo Alto Calif Lieco Inc	14	1300 N Kostner Ave
Devol Research Co	14	3610 Oceanside Rd Oceanside LI N' Litton Industries of Calif	Y 3 1-6	Chicago 51 Ill 1-2-3-1 Sylvania Electric Products Inc
Brookside Dr Greenwich Conn Diamond Antenna & Microwave Corp	8	336 N Foothill Rd Beverly Hills Cal		1740 Broadway New York 19 NY 2-3-1 Technical Appliance Corp
	10	McMillan Industrial Corp Brownville Ave Ipswich Mass	10	1 Taco St Sherburne NY Telephonics Corp
29 New York Ave Westbury NY D & S Mfg Co 424 Burk Ave Ridley Park Pa	3	Mack Electronics Div Inc Sub Mack Trucks Inc 1120 S 2 St		Park Ave Huntington LI NY Teletronics Lab Inc
Dwyer Eng'g Co Pine St Ext Nashua N H	3	Plainfield NJ Mark Products Co	3	54 Kinkel St Westbury NY
Eclipse-Pioneer Div Bendix Aviation Corp Teterboro NJ	-3	6412 W Lincoln Ave Morton Grove Martlab Co	Ill 3	Telrex Labs Asbury Park NJ Texas Instruments Inc
Electronic Specialty Co 5121 San Fernando Rd		249 Haverford Ave Swarthmore Pa	1	6000 Lemmon Ave Dallas 9 Texas 3-11-1- Thermal Refractories Corp
Los Angeles 39 Calif Electro Products Labs Inc	3	Maryland Electronic Mfg Corp 5009 Calvert Rd College Park Md	3	4501 Dell Ave N Bergen NJ 10 Topp Industries Inc
4501 N Ravenswood Ave Chicago 40 Ill Electro-Pulse Inc	8	Maurer Inc J A 37-01 31 St Long Island City 1 NY	Y 12	5255 W 102 St Los Angeles 45 Calif 1-6-
11861 Teale St Culver City Calif	5	Maxson Corp W L 475 10 Ave New York 18 N Y	14	236 Pearl St Somerville 45 Mass
Elm Labs 10 Washington Ave		Meridian Metalcraft Inc 8739 S Millergrove Dr		Transco Products Inc 12210 Nebraska Ave
Hastings-on-Hudson NY Emeloid Co	4	Whittier Calif	3	Los Angeles 25 Calif TV Specialty Co
1239 Central Ave Hillside 5 NJ Emerson & Cuming Inc	4	Metaplast Corp Davisville Rd at Pa Turnpike		350 W 31 St New York 1 NY 12 U S Stoneware Co Alite Div Orville Ohio 10
869 Washington St Canton 1 Mass	10	Hatboro Pa Microflect Co 2300 S 25 St Salem Or	e 13	Vectron Inc
Emerson Electric Mfg Co 8100 Florissant Ave St Louis 21 Mo	3	Mil Case Corp 35-18 37 St Long Island City NY	4	1611 Trapelo Rd Waltham 54 Mass Vought Co
Emerson Plastics Corp Seabury Ave & Butler Pl Bronx 61 NY	10	Millen Mfg Co James 150 Exchange St Malden 48 Mass	9	P O Box 1350 Beverly Hills Calif Waldorf Instrument Co
Emerson-Sack-Warner Corp 85 Washington St Somerville 43 Mass	3	Minn-Honeywell Regulator Co Aero Di	v	Div F C Huyck & Sons Park Ave Huntington Station NY
Engineering Associates	11	1433 Stinson Blvd Minneapolis Min Model Eng'g & Mfg Inc		Walworth Co 60 E 42 St New York 17 NY Waveline Inc Passaic Ave Caldwell NJ
Ercona Corp 551 5 Ave New York 17 NY	12	50 Frederick St Huntington Ind Nemeth Inc	3	Westbury Electronics Inc
Fairchild Guided Missiles Div Fairchild Engine & Airplane Corp		2223 S Carmelina Ave Los Angeles 64 Calif	4-12	300 Shames Dr Westbury NY West Coast Research Corp
Straight Path Wyandanch LI NY 2-8- Farnsworth Electronics Co Div IT&T	11	Nevada Air Products Co P O Box 2472 Reno Nev		2371½ Westwood Blvd Los Angeles 64 Calif 6-7-8
3702 E Pontiac St Ft Wayne Ind 2-3-5- Farrand Controls Inc	11	Norden-Ketay Corp	11-14	Westinghouse Electric Corp P O Box 868 Pittsburgh 30 Pa 1-3-10-11-14
4401 Bronx Blvd New York 70 NY	10	Commerce Rd Stamford Conn Olympic Radio & TV	3-5-14	Wheeler Labs Inc
	12	34-01 38 Ave Long Island City 1 N' Omega Labs Inc	Y 11	122 Cutter Mill Rd Great Neck NY Winder Aircraft Corp of Florida
Federal Telecommunication Labs Div IT&T 500 Washington Ave Nutley NJ	3	Haverhill St Rowley Mass Otis Elevator Co Electronic Div	3	P O Box 2397 Drane Field Lakeland Fla
Federal Telephone & Radio Co Div IT&T	-	35 Ryerson St Brooklyn 5 NY	4-14	Zenith Plastics Co
Flight Research Inc	14	Packard Bell Electronics Corp 12333 W Olympic Blvd		1600 W 135 St Gardena Calif 3-10
	12	Los Angeles 64 Calif Penn-East Eng'g Corp	13	71—RECEIVERS, COMMUNI-
Box 113 Bridgeport Pa	5	Willow St Kutztown Pa Petroff Corp Peter Av	6-7	CATION
Fretco Inc 406 N Craig St Pittsburgh 13 Pa	3	127 Water St New York 5 NY Photobell Co	3	Converters, amateur 1
Gabriel Electronics Div Gabriel Co 135 Crescent Rd		43 Vesey St New York 7 NY	8	Converters, FM 2
Needham Heights 94 Mass General Bronze Corp	3	Plastic Mold & Eng'g Co 157 Clifford St Providence RI	10	Converters, R-F 3 Converters, UHF-TV 4
711 Stewart Ave Garden City NY	3	Polarad Electronics Corp 43-20 34 St Long Island City 1 N	Y 7	Preselectors

Receivers, amateur 6	Collins Radio Co	J-V-M Eng'g Co 4633 S Lawndale Ave Lyons III 18
Receivers, AM communication. 7	855 35 St N E 6-7-8-9-13-14-16 Cedar Rapids Iowa 17-18-24-26-27	Kaar Eng'g Corp
Receivers, aviation fixed 8	Comac Instrument Co	2995 Middlefield Rd Palo Alto Calif 7-12-14-15-17-27
Receivers, aviation mobile 9	66-11 99 St Forest Hills 74 NY 1-6 Communication Equipment & Eng'g Co	Kahn Research Labs
Receivers, battery portable 10	5646 W Race Ave Chicago 44 Ill 14	22 Pine St Freeport NY Kaiser Aircraft & Electronics Corp
Receivers, carrier telegraph 11 Receivers, civil defense 12	Communications Co Coral Gables Fla 7-8-14-15-19-27	Toledo Electronics Div
Receivers, diversity	Conn Telephone & Electric Corp	PO Box 437 Toledo Ohio
Receivers, fixed frequency 14	70 Brittania St Meriden Conn 11-14-15-27 Conrac Inc	K-F Development Co 2606 Spring St Redwood City Calif 6
Receivers, FM communication 15	19217 E Foothill Blvd Glendora Calif 25	Kintel (Kay Lab)
Receivers, frequency shift 16	Consolidated Productions Inc Broward Int'l Airport	5725 Kearny Villa Rd San Diego 12 Cælif 25
Receivers, marine 17	Ft Lauderdale Fla 22	Lumbda-Pacific Eng'g Inc
Receivers, microwave 18	Continental Electronics Ltd 302 Oakland St Brooklyn 22 NY 7-26-27	14725 Arminta St Van Nuys Calif 18 Land-Air Inc Instrument & Electronic Div
Receivers, police	Crosby Labs Inc Box 233 Robbins Lane Hicksville NY 24	2133 Adams Ave
Receivers, railroad 21	Daven Co	San Leandro Calif 2-3-7-15-18-26-27 Lane Electronics Mfg Corp
Receivers, remote pickup, fixed 22	Route 10 7-10-11-13-14-15-16-20 Livingston NJ 21-22-23-24-26-27-28	7254 Atoll Ave N
Receivers, remote pickup, mobile 23	Dayton Aviation Radio & Equipment Corp	Hollywood Calif Lavoie Labs Inc
Receivers, SSB 24	R R 3 Troy Ohio 4-8-9 Deltime Inc	Matawan-Freehold Rd
Receivers, TV	608 Fayette Ave Mamaroneck NY 18	Morganville NJ Lear Inc
Receivers, UHF	DeMornay-Bonardi Corp 780 S Arroyo Pkwy Pasadena Calif 18	3171 S Bundy Drive
Receivers, VHF	DeWald Radio Mfg Corp	Santa Monica Calif 7-8-9-13-14-15-26-27 Lel Inc
Receivers, WWV	35-15 37 Ave Long Island City 1 NY 4-26 Diamond Power Specialty Corp	380 Oak St Copiague NY
ACF Industries Nuclear Prods-Erco Div	Lancaster Ohio 25	Litton Industries of Calif 13-14 336 N Foothill Rd Beverly Hills Calif 16-24
48 Lafayette St Riverdale Md 9-18 Admiral Corp	Doller Co Robert Communications Equip Div 50 Drumm St	Lynmar Engineers Inc
3800 W Cortland St Chicago 47 III 25	San Francisco 11 Calif 14-20	1432 N Carlisle St
Aeronautical Comm Equip Co 3090 Douglas Rd Miami 33 Fla 8-11-27	Du Mont Labs Inc Allen B 760 Bloomfield Ave Clifton NJ 23	Philadelphia 21 Pa 10-14-19-19-24 Lysco Mfg Co
Aeronautical Electronics Inc	Electrical Communications Inc	1401 Clinton St
P O Box 6527 Raleigh NC 8-9-12-27 Airborne Electronics Co	765 Clementina St San Francisco 3 Calif 23	Hoboken NJ 1-3-1-12-14-11-19 Mackay Radio & Telegraph Co
6813 Troost Ave N Hollywood Calif 17 Aircraft Radio Corp Boonton NJ 9-26-27	Electronic Specialty Co	Marine Div
Airmec Ltd	5121 San Fernando Rd Los Angeles 39 Calif 3	133 Terminal Ave Clark NJ 7-17-27 Mack Electronics Div Inc
High Wycombe Buckinghamshire England 7 Airtron Inc	Electronics Development Co	Sub Mack Trucks Inc
1101 W Elizabeth Ave Linden NJ 18	3743 N Cahuenga Blvd N Hollywood Calif 25-26	1120 S 2 St Plainfield NJ 7-24-26 Madison Fielding Corp
Amerac Inc	Electro-Voice Inc	863 Madison St Brooklyn 21 NY 4
116 Topsfield Rd Wenham Mass 18 American Communications Corp	Cecil & Carrol Sts Buchanan Mich 6-7-24 Elm Labs	Mancon Inhoratories Inc
280 Broadway New York 17 NY 12	10 Washington Ave	207 Greenwich Ave Stamford Conn 7-26-27 Marconi Instruments Ltd
American Electronic Laboratories 121 N 7 St Philadelphia 6 Pa 18	Hastings-on-Hudson NY 15 Engineering Associates	44 New St
American Machine & Foundry Co	434 Patterson Rd Dayton 9 Ohio 18-28	Management Eng's Ltd
Electronics Div 1085 Commonwealth Ave Boston 15 Mass 14	Endeco Eng'g Development Co of Los Angeles 922 E Anaheim St	232 John St Arnprior Ontario Can 7-10-14-17
American Machine & Foundry Co	Wilmington Calif 17	Melpar Inc 3000 Arlington Blvd Falls Church Va 26-27
Defense Products Group 1101 N Royal St Alexandria Va 18	Entron Inc 4902 Lawrence St Bladensburg Md 3-4	Motology Hotology
American Microwave Corp	Erco Radio Labs Inc	8739 S Millergrove Dr Whittier Calif 18 Michigan Electronics Inc
11754 Vose St N Hollywood Calif 18 Amtron Corp	637 Stewart Ave 7-8-11-13-14-16 Garden City NY 20-24-26-27-28	854 N Rockwell St
17 Felton St Waltham 54 Mass 26 Applied Electronics Co	Federal Telephone & Radio Co	Chicago 22 III 14-15-19-20-23 Model Eng'g & Mfg Inc
213 E Grand Ave	Div IT&T 100 Kingsland Rd Clifton NJ 7-11-15-18-21-26-27	50 Frederick St 7.00 10 14 17 26 27
S San Francisco Calif 7-14-17 Applied Research Inc	Femco Inc Irwin Pa 10-14-15	Huntington Ind 7-8-9-10-14-17-26-27 Modern Industries Inc
163-07 Depot Rd Flushing 58 NY 15-26-27	F-R Machine Works Inc Electronic & X-Ray Div 26-12 Borough Pl	2601 Colorado Ave Santa Monica Calif
Avia Products Co 7266 Beverly Blvd	Woodside 77 NY 18	Morrow Radio Mfg Co 2794 Market St Salem Ore 6-7-8-9-10
Los Angeles 36 Calif 14-19-26-27	General Communication Co 677 Beacon St Boston 15 Mass 9-18	Mosler Research Products Inc
Arvin Industries Inc Columbus Ind 12 Astatic Corp 250 Harbor St Conneaut Ohio 4	General Electric Co	3 Keeler St Danbury Conn 10-14-15-19 Motorola Communications & Electronics Inc
Barker & Williamson Inc	Communication Products Dept Syracuse NY 12-15-18-27	4501 W Augusta Blvd
Canal & Beaver Sts Bristol Pa 3-6-7-12-13-14-16-24-28	General Electric Co	Chicago 51 Ill 10-12-14-15-18-20-21-27
Bassett Inc Rex	Light Military Electronic Equip Dept French Rd Utica NY 26-27	Multi-Products Co 21470 Coolidge Hwy
1314 N E 17 Ct Ft Lauderdale Fla 7-17 Beckman/Berkeley Div	Goodyear Aircraft Corp 1210 Massillon Rd Akron 15 Ohio 18	Oak Park 37 Mich 6-7-12-27
Beckman Instruments Inc 2200 Wright Ave	Gray Radio Co	National Aeronautical Corp Ft Washington Industrial Park
Richmond 3 Calif 28 Bell Aircraft Corp	501 Forest Hill Blvd W Palm Beach Fla 17 Grem Eng'g Co 488 1 St Brooklyn 15 NY 18	Ft Washington Pa
P O Box 1 3-4-7-8-9-10-14-15-16-18-	Gruen Industries Inc	National Company Inc 61 Sherman St
Buffalo 5 NY 22-23-24-26-27-28 Bendix Aviation Corp Bendix Radio Div	Time Hill Cincinnati 6 Ohio 34 Hallicrafters Co	Malden 48 Mass 6-7-10-14-16-26-27
East Joppa Rd	4401 W 5 Ave 1-3-4-6-7-10-13	Nems-Clarke Inc 919 Jesup-Blair Dr
Towson 4 Md 7-8-9-10-14-15-19-21-26-27 Bendix Aviation Corp	Chicago 24 Ill 14-18-24-26-27 Hammarlund Mfg Co 460 W 34 St 1-6-7-8	Silver Spring Md 7-14-15-24-25-26-27
1104 Fisher Bldg	New York 1 NY 11-12-13-24-26-27	Nevada Air Products Co P O Box 2472 Reno Nev
Detroit 2 Mich 7-8-9-15-21-26-27 Blonder-Tongue Laboratories	Hancock Electronics Corp 2553 Middlefield Rd Redwood City Calif 25	Northern Radio Co
9-25 Alling St Newark 2 NJ 4	Harvey-Wells Electronics Inc	143 W 22 St New York 11 NY 11-13-16 Nuclear-Electronics Corp
Bolton Labs Inc W Main St Bolton Mass 18 Bristol Co	North St Southbridge Mass 6-7-12-14-17	2632 W Cumberland St
P O Box 1790 EITT	Heath Co 305 Territorial Rd Benton Harbor Mich 6-7	Philadelphia 32 Pa
Waterbury 20 Conn 14-18 Browning Labs Inc	Hudson American Div 25 W 43 St New York 36 NY 17	O'Brien Electric Corp 6514 Santa Monica Blvd
750 Main St Winchester Mass 2-7-14-15-28	Industrial Development Eng'g Assoc	Hollywood 38 Calif
Budelman Radio Corp 375 Fairfield Ave	7900 Pendleton Pike	Olympic Radio & TV 34-01 38 Ave Long Island City 1 NY 9
Stamford Conn 15-18-20-26-27	Industrial Radio Corp	Packard Bell Electronics Corp
Burroughs Corp 6071 2 Ave Detroit 32 Mich 7	428 N Parkside Ave 10-12-14-15-19	12333 W Olympic Blvd Los Angeles 64 Calif 7-12
Calbest Electronics Co	Chicago 44 Ill 20-22-23-27 Industrial TV Inc	Palmer Inc M V
4801 Exposition Blvd	369 Lexington Ave Clifton NJ 25	4002 Fruit Valley Rd Vancouver Wash 11
Los Angeles 16 Calif 27 Canadian Aviation Electronics Ltd	Intelex Systems Inc 22 Thames St New York 6 NY 13-24	Pearce Simpson Inc 3023 Coral Way Miami 34 Fla 17
6214 Cote de Liesse Rd	International Research Associates	Perma-Power Co
St Laurent Quebec Canada 7-14-26-27 Canoga Corp	2221 Warwick Ave Santa Monica Calif 10 I-T-E Circuit Breaker Co	3102 N Elston Ave Chicago 18 Ill 23 Planet Service Corp
5955 Sepulveda Blvd Van Nuys Calif 18	Special Products Div 601 E Erie Ave	88-02 88-06 102 St Richmond Hill 18 NY 17
Central Electronics Inc 1247 W Belmont Ave Chicago 13 Ill 6-24	Philadelphia 34 Pa 18 Jarvis Electronics Corp	Plectron Corp Overton Nebr 14-15-19 Polarad Electronics Corp
Clegg Labs Div Clegg Inc	1140 Cherry St Winnetka Ill 9	43-20 34 St Long Island City 1 NY 18
Ridgedale Ave 1-6-7-14-15 Morristown NJ 24-26-27-28	Jerrold Electronics Corp	Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY
	23 & Chestnut Sts Philadelphia 3 Pa 3-4	202 Illiary St Dioonijii 1 141

Pratt Albert	Trutone Electronics Inc	Browning Labs Inc 750 Main St Winchester Mass 1-4-5-12-15
114 Lake View Ave	812 N Highland Ave Los Angeles 38 Calif 7-15-20	Calbest Electronics Co
Milwaukee 17 Wisc 10-14-15-19-21-26-27 Precision Radiation Instruments Inc	Uniwave Inc	4801 Exposition Blvd 4-5-6-9-10-12 Los Angeles 16 Calif 13-18-19-20-21
4223 W Jefferson Blvd	2 Marine St Farmingdale NY 4-26-27 Varo Mfg Co	Canadian Aviation Electronics Ltd
Los Angeles 16 Calif Premier Instrument Corp	2201 Walnut St Garland Tex 9-27	6214 Cote de Liesse Rd St Laurent Quebec Canada 18
52 W Houston St New York 12 NY 18	Vectron Inc 1611 Trapelo Rd Waltham 54 Mass 18	C B C Electronics Co
Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass 13-16	Virginia Electronics Co	2601 N Howard St Philadelphia 33 Pa 22
Production Research Corp	River Rd & B & O R R	Clegg Labs Div Clegg Inc Ridgedale Ave Morristown NJ 15
Thornwood NY 2-7-8-10-13-14-18-24	Washington 16 D C 7-10 Voron & Co George	Collins Radio Co
Pye Canada Ltd 82 Northline Rd 10-11-14	835 N 19 St	Community Eng's Corp
Toronto 16 Ont Canada 15-19-25-26-27	Philadelphia 30 Pa 7-14-15-26-27 Warren Corp J C	Box 824 State College Pa 22
Pye Telecommunications Ltd Newmarket Rd 2-3-7-8-10-11-12-14-15	21 Hanse Ave	Conrac Inc 19217 E Foothill Blvd Glendora Calif 18
Cambridge England 17-18-19-21-22-23-25-27	Freeport NY 10-15-19-22-23 Westbury Electronics Inc	Corbin Corp 5419 56 Pl Riverdale Mu 25
Radio Corp of America Commercial Electronic Products	300 Shames Dr Westbury NY 3-4-25	Crosby Labs Inc Box 233 Robbins Lane Hicksville NY 8
Camden 2 NJ 4-7-15-17-18-24-26-27	Westinghouse Electric Corp	Davis & Co J W
Radio Eng'g Labs	P O Box 868 Pittsburgh 30 Pa 7-17-18-24-26-27	Defiance Eng'g & Microwave Corp
36-40 37 St Long Island City 1 NY 26-27 Radio Frequency Labs Inc	Westrex Corp	Beverly Airport Beverly Mass 23
Boonton NJ 11-16-28	111 8 Ave New York 11 NY 13 WRL Electronics Inc	Delco Radio Div General Motors Corp Kokomo Ind 6
Radio Kits Inc 120 Cedar St New York 6 NY 7-10-20-25	3415 W Broadway Council Bluffs Iowa 1	DeWald Radio Mfg Corp
Raytheon Mfg Co		35-15 37 Ave 1-4-5-7-12-13 Long Island City 1 NY 16-17-18-19
100 River St Waltham 54 Mass 17-18 Regency Div IDEA Inc	72—RECEIVERS, HOME	Doty Acoustical Electronic Labs
7900 Pendleton Pike		431 Broome St New York 13 NY Eckstein Radio & TV Co
Indianapolis Ind 1-4-12-14-15-19-21-27	Converters, FM	2601 E Franklin Ave Minneapolis 6 Minn 4-6
Resdel Eng'g Corp 330 S Fair Oaks Ave	Converters, UHF-TV 2	Electro-Voice Inc
Pasadena Calif 18-26-27	Preselectors 3	Cecil & Carrol Sts Buchanan Mich Elm Labs
Rhein Sound Systems Inc 133 Hamilton St 8-14-15-16-	Receivers, AM 4	10 Washington Ave
New Haven 5 Conn 19-22-23-24	Receivers, AM-FM 5	Hastings-on-Hudson NY Emerson Radio & Phonograph Corp
RME Div Electro Voice Inc	Receivers, automobile 6	14 & Coles Sts 4-7-10-18
Buchanan Mich 1-6-7-15 Royal Communication Systems	Receivers, battery portable 7	Jersey City 2 NJ 19-20-21 Ercona Corp 551 5 Ave New York 17 NY 5
11462 Euclid Ave	Receivers, binaural	Erco Radio Labs Inc
Cleveland 6 Ohio 2-6-14-15-20-23-26-27	Receivers, color TV 10	637 Stewart Ave Garden City NY 15
RS Electronics Corp 435 Portage Ave Palo Alto Calif 18	Receivers, farm radio 11	Espey Mfg Co Congress & Ballston Ave
Sanders Associates	Receivers, FM	Saratoga Springs NY 45
95 Canal St Nashua N H 18 Scantlin Electronics Inc	Receivers, phono-radio comb 13	Federal Telephone & Radio Co Div IT&T
11624 W Pico Blvd	Receivers, recorder-radio comb. 14	Fisher Radio Corp
Los Angeles 64 Calif 7-20	Receivers, short wave, fixed 15	21-21 44 Dr Long Island City 1 NY 4-5-12-13
Scott Inc H H 385 Putnam Ave Cambridge 39 Mass 15	Receivers, short wave, portable 16	Flush Wall Radio Co 1012 Cleveland St Clearwater Fla 4
Seeley Electronics	Receivers, transistor 17	Franklin Electronics Inc
1060 S La Brea Ave	Receivers, TV	Box 113 Bridgeport Pa 12
Los Angeles 19 Calif 6-7-14-15-19-20-27 Servo Corp of America	Receivers, TV combination 19	Gardiner Electronics Co 2545 E Indian School Rd Phoenix Ariz 7-17
2020 Jericho Tpke New Hyde Park NY 27	Receivers, UHF 20	Gary Wells Co 361 Rockaway Ave Valley Stream NY 12
Chasta Din Dashman, Instrument, Inc.		
Shasta Div Beckman Instruments Inc	Receivers, VHF 21	General Electric Co
P O Box 296 Station A Richmond Calif 28	Television boosters 22	General Electric Co Communication Products Dept
P O Box 296 Station A Richmond Calif 28 Sonar Radio Corp 3050 W 21 St Brooklyn 24 NY 17	Receivers, VHF	General Electric Co Communication Products Dept Syracuse NY 11
P O Box 296 Station A Richmond Calif 28 Sonar Radio Corp 3050 W 21 St Brooklyn 24 NY 17 Specific Electronics	Television boosters	General Electric Co Communication Products Dept Syracuse NY General Precision Lab Inc 63 Bedford Rd Pleasantville NY
P O Box 296 Station A Richmond Calif 28 Sonar Radio Corp 3050 W 21 St Brooklyn 24 NY 17 Specific Electronics 570 W Woodbury Rd Altadena Calif 14-28 Specific Products Co	Television boosters	General Electric Co Communication Products Dept Syracuse NY General Precision Lab Inc 63 Bedford Rd Pleasantville NY C& M Equipment Co
P O Box 296 Station A Richmond Calif 28 Sonar Radio Corp 3050 W 21 St Brooklyn 24 NY 17 Specific Electronics 570 W Woodbury Rd Altadena Calif 14-28 Specific Products Co 14515 Dickens St Sherman Oaks Calif 28	Television boosters	General Electric Co Communication Products Dept Syracuse NY General Precision Lab Inc 63 Bedford Rd Pleasantville NY C & M Equipment Co 7315 Varna Ave N Hollywood Calif Granco Products Inc
P O Box 296 Station A Richmond Calif 28 Sonar Radio Corp 3050 W 21 St Brooklyn 24 NY 17 Specific Electronics 570 W Woodbury Rd Altadena Calif 14-28 Specific Products Co 14515 Dickens St Sherman Oaks Calif 28 Spencer-Kennedy Labs Inc	Television boosters	General Electric Co Communication Products Dept Syracuse NY General Precision Lab Inc 63 Bedford Rd Pleasantville NY C & M Equipment Co 7315 Varna Ave N Hollywood Calif Granco Products Inc 36-07 20 Ave Long Island City NY 4-5
P O Box 296 Station A Richmond Calif 28 Sonar Radio Corp 3050 W 21 St Brooklyn 24 NY 17 Specific Electronics 570 W Woodbury Rd Altadena Calif 14-28 Specific Products Co 14515 Dickens St Sherman Oaks Calif Spencer-Kennedy Labs Inc 1320 Soldiers Field Rd Boston 35 Mass 5pivey Inc James S	Television boosters	General Electric Co Communication Products Dept Syracuse NY General Precision Lab Inc 63 Bedford Rd Pleasantville NY C & M Equipment Co 7315 Varna Ave N Hollywood Calif Granco Products Inc
P O Box 296 Station A Richmond Calif Sonar Radio Corp 3050 W 21 St Brooklyn 24 NY 17 Specific Electronics 570 W Woodbury Rd Altadena Calif 14-28 Specific Products Co 14515 Dickens St Sherman Oaks Calif 28 Spencer-Kennedy Labs Inc 1320 Soldiers Field Rd Boston 35 Mass Spivey Inc James S 4908 Hampden Lane Washington 14 D C 27	Television boosters	General Electric Co Communication Products Dept Syracuse NY General Precision Lab Inc 63 Bedford Rd Pleasantville NY G& M Equipment Co 7315 Varna Ave N Hollywood Calif Granco Products Inc 36-07 20 Ave Long Island City NY Gyro Electronics Co 325 Canal St New York 13 NY 17 Hal-Hen Co
P O Box 296 Station A Richmond Calif 28 Sonar Radio Corp 3050 W 21 St Brooklyn 24 NY 17 Specific Electronics 570 W Woodbury Rd Altadena Calif 14-28 Specific Products Co 14515 Dickens St Sherman Oaks Calif 28 Spencer-Kennedy Labs Inc 1320 Soldiers Field Rd Boston 35 Mass 4 Spivey Inc James S 4908 Hampden Lane Washington 14 D C 27 Springer Aircraft Radio Co Earl W	Television boosters	General Electric Co
P O Box 296 Station A Richmond Calif Sonar Radio Corp 3050 W 21 St Brooklyn 24 NY 17 Specific Electronics 570 W Woodbury Rd Altadena Calif 14-28 Specific Products Co 14515 Dickens St Sherman Oaks Calif Spencer-Kennedy Labs Inc 1320 Soldiers Field Rd Boston 35 Mass 4 Spivey Inc James S 4908 Hampden Lane Washington 14 D C 27 Springer Aircraft Radio Co Earl W Route 11 Box 330 Indianapolis Ind 26 Stavid Eng's Inc	Television boosters	General Electric Co
P O Box 296 Station A Richmond Calif Sonar Radio Corp 3050 W 21 St Brooklyn 24 NY 17 Specific Electronics 570 W Woodbury Rd Altadena Calif 14-28 Specific Products Co 14515 Dickens St Sherman Oaks Calif Spencer-Kennedy Labs Inc 1320 Soldiers Field Rd Boston 35 Mass 4 Spivey Inc James S 4908 Hampden Lane Washington 14 D C 27 Springer Aircraft Radio Co Earl W Route 11 Box 330 Indianapolis Ind 26 Stavid Eng'g Inc U S Route 22 Plainfield NJ 18	Television boosters 22 Wave traps 23  Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 22 Admiral Corp 3800 W Cortland St 4-10-13-17 Chicago 47 Ill 18-19-20-21 Advance Electronics Co 8510 North End Ave Oak Park 37 Mich 23 Airborne Electronics Co 6813 Troost Ave N Hollywood Calif 16 Airtronix Development Corp 4902 Church Ave Brooklyn 3 NY 13-22 American Communications Corp	General Electric Co
P O Box 296 Station A Richmond Calif Sonar Radio Corp 3050 W 21 St Brooklyn 24 NY 17 Specific Electronics 570 W Woodbury Rd Altadena Calif 14-28 Specific Products Co 14515 Dickens St Sherman Oaks Calif Spencer-Kennedy Labs Inc 1320 Soldiers Field Rd Boston 35 Mass 4 Spivey Inc James S 4908 Hampden Lane Washington 14 D C 27 Springer Aircraft Radio Co Earl W Route 11 Box 330 Indianapolis Ind 26 Stavid Eng's Inc U S Route 22 Plainfield NJ 18 Stelma Inc 190 Henry St Stamford Conn 11-16	Television boosters 22 Wave traps 23  Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 22 Admiral Corp 3800 W Cortland St 4-10-13-17 Chicago 47 Ill 18-19-20-21 Advance Electronics Co 8510 North End Ave Oak Park 37 Mich 23 Airborne Electronics Co 6813 Troost Ave N Hollywood Calif 16 Airtronix Development Corp 4902 Church Ave Brooklyn 3 NY 13-22 American Communications Corp 280 Broadway New York 17 NY 9	General Electric Co
P O Box 296 Station A Richmond Calif 28 Sonar Radio Corp 3050 W 21 St Brooklyn 24 NY 17 Specific Electronics 570 W Woodbury Rd Altadena Calif 14-28 Specific Products Co 14515 Dickens St Sherman Oaks Calif 28 Spencer-Kennedy Labs Inc 1320 Soldiers Field Rd Boston 35 Mass 4 Spivey Inc James S 4908 Hampden Lane Washington 14 D C 27 Springer Aircraft Radio Co Earl W Route 11 Box 330 Indianapolis Ind 26 Stavid Eng'g Inc U S Route 22 Plainfield NJ 18 Stelma Inc 190 Henry St Stamford Conn 11-16 Stewart Warner Electronics Div	Television boosters  Wave traps  Adler Electronics Inc  1 LeFevre Lane New Rochelle NY  22 Admiral Corp  3800 W Cortland St  Chicago 47 Ill  Advance Electronics Co  8510 North End Ave Oak Park 37 Mich  23 Airborne Electronics Co  6813 Troost Ave N Hollywood Calif  Airtronix Development Corp  4902 Church Ave Brooklyn 3 NY  13-22 American Communications Corp  280 Broadway New York 17 NY  9 American Elite Inc  7 Park Ave New York 16 NY  5	General Electric Co
P O Box 296 Station A Richmond Calif Sonar Radio Corp 3050 W 21 St Brooklyn 24 NY 17 Specific Electronics 570 W Woodbury Rd Altadena Calif 14-28 Specific Products Co 14515 Dickens St Sherman Oaks Calif Spencer-Kennedy Labs Inc 1320 Soldiers Field Rd Boston 35 Mass 4 Spivey Inc James S 4908 Hampden Lane Washington 14 D C 27 Springer Aircraft Radio Co Earl W Route 11 Box 330 Indianapolis Ind 26 Stavid Eng'g Inc U S Route 22 Plainfield NJ 18 Stelma Inc 190 Henry St Stamford Conn 11-16 Stewart Warner Electronics Div 1300 N Kostner Ave Chicago 51 Ill 8-10 Stromherg-Carlson Div General Dynamics Corp	Television boosters 22 Wave traps 23  Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 22 Admiral Corp 3800 W Cortland St 4-10-13-17 Chicago 47 Ill 18-19-20-21 Advance Electronics Co 8510 North End Ave Oak Park 37 Mich 23 Airborne Electronics Co 6813 Troost Ave N Hollywood Calif 16 Airtronix Development Corp 4902 Church Ave Brooklyn 3 NY 13-22 American Communications Corp 280 Broadway New York 17 NY 9 American Elite Inc 7 Park Ave New York 16 NY 5 American Machine & Foundry Co	General Electric Co
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Lear Inc	Symphony Electronics Corp	Bendix Aviation Corp Bendix Radio Div
3171 S Bundy Drive Santa Monica Calif 17 Lel lnc 380 Oak St Copiague NY 7-17	925 S Western Ave Los Angeles 6 Calif 4-5-17	East Joppa Rd Towson 4 Md 1-2-3-4-7-9
Litton Industries of Calif	Taffet Radio & TV Co 27-05 Brooklyn Queens Expressway W	Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich 1-2-4-7-8-9
336 N Foothill Rd Beverly Hills Calif 15	Woodside 77 NY 4-5-7-11-16	Burroughs Corp
Mack Electronics Div Inc Sub Mack Trucks Inc	Tech-Master Corp	6071 2 Ave Detroit 32 Mich
1120 S 2 St Plainfield NJ 15 Madison Fielding Corp	75 Front St Brooklyn 1 NY 18-20-21 Telechrome Mfg Corp	Canadian Aviation Electronics Ltd 6214 Cote de Liesse Rd
863 Madison St Brooklyn 21 NY 2-4-5	28 Ranick Dr Amityville LI NY 10-22	St Laurent Quebec Canada 3-7
Magnavox Corp	Telectro Industries Corp	CGS Laboratories Inc
2131 Bueter Rd Ft Wayne 4 Ind 4-5-13-18-19	35-18 37 St Long Island City 1 NY 14 Telemarine Communications Co	391 Ludlow St Stamford Conn 12 Collins Radio Co
Ft Wayne 4 Ind 4-5-13-18-19 Majestic Int'l Corp	3040 W 21 St Brooklyn 24 NY 15	855 35 St N E
79 Washington St	Telematic Industries Inc	Cedar Rapids Iowa 1-2-4-7-8-9
Brooklyn 1 NY 4-5-7-12-13-16-19	16 Howard Ave Brooklyn 7 NY 2-4-5-12-20	Conn Telephone & Electric Corp 70 Brittania St Meriden Conn
Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind 2	Teletronic Labs Inc	Daven Co
Measurement Eng'g Ltd	1835 W Rosecrans Ave Gardena Calif 4-5-12	Route 10 Livingston NJ 1-2-3-4-5-6-7-8-9-10-11
232 John St Arnprior Ontario Can 15-16-17	Trans-Tel Corp 736 N Highland Ave	Dayton Aviation Radio & Equipment Corp R R 3 Troy Ohio 1-2-4-7-9
Merit Coil & Transformer Corp	Los Angeles 38 Calif 1-2-5-6-18	Edo Corp
4427 N Clark St Chicago 40 Ill 23 Michigan Electronics Inc	Transval Eng'g Corp	13-10 111 St College Point 56 Ll NY 6
854 N Rockwell St Chicago 22 III 14	10401 W Jefferson Blvd Culver City Calif 17 Transvision Inc	Electrical Communications Inc 765 Clementina St San Francisco 3 Calif 7-8
Millen Mfg Co James	460 North Ave New Rochelle NY 18-20-21	Farnsworth Electronics Co Div IT&T
150 Exchange St Malden 48 Mass 23 Miller Co J W	Trav-Ler Radio Corp	3702 E Pontiac St Ft Wayne Ind 5
5917 S Main St Los Angeles 3 Calif 23	571 W Jackson Blvd Chicago 6 Ill 4-7-18 Trutone Electronics Inc	Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ 1-2-4-6-7-9
Miller Electronics	812 N Highland Ave	General Communication Co
2840 Naomi St Burbank Calif 4-5-8 Model Eng'g & Mfg Inc	Los Angeles 38 Calif 13-15-16	677 Beacon St Boston 15 Mass 2
50 Frederick St Huntington Ind 16	TV Hardware Mfg Co Div Textron Inc 400 S Wyman St Rockford Ill 22	Gruen Industries Inc Time Hill Cincinnati 6 Ohio  3
Mosley Electronics Inc	Valandy Electronics Corp	Haller Raymond & Brown
8622 St Charles Rock Rd St Louis 14 Mo 23	61-35 166 St Flushing 68 NY 4	124 N Atherton St State College Pa 5
Motorola Communications & Electronics Inc 4501 W Augusta Blvd Chicago 51 III 6	Vidaire Electronics Mfg Corp 576 W Merrick Rd Lynbrook NY 23	Hallicrafters Co
MP Engineering Co Fairfield 3 Conn 13	Voron & Co George	4401 W 5 Ave Chicago 24 Ill 9-12 Harvey-Wells Electronics
Multi-Products Co	835 N 19 St Philadelphia 30 Pa 16	North St Southbridge Mass 6
21470 Coolidge Hwy Oak Park 37 Mich National Aircraft Corp Electronics Div	Warren Corp J C 21 Hanse Ave Freeport NY 14	Heath Co
3411 Tulare Ave Burbank Calif 17	Warwick Mfg Corp	305 Territorial Rd Benton Harbor Mich 10 Hogan Labs Inc
National Company Inc	7300 N Lehigh Ave 7-10-12-13-14-15	155 Perry St New York 14 NY 11
61 Sherman St Malden 48 Mass 4-5-12-15-16	Chicago 31 Ill 16-17-18-19-20-21 Wells-Gardner & Co	Industrial Radio Corp
Malden 48 Mass 4-5-12-15-16 Newcomb Audio Products Co	2701 N Kildaire Ave	428 N Parkside Ave Chicago 44 III 8
6824 Lexington Ave	Chicago 39 III 4-13-18-19-20-21	Industrial TV Inc 369 Lexington Ave Clifton NJ 6
Los Angeles 38 Calif 4-5-11	Westbury Electronics Inc 300 Shames Dr Westbury NY 2-22	I-T-E Circuit Breaker Co
Olympic Radio & TV 34-01 38 Ave 4-5-7-10-12	Westinghouse Electric Corp	Special Products Div
Long Island City 1 NY 13-15-18-19	P O Box 868 Pittsburgh 30 Pa 4-5-15-18-21	601 E Erie Ave Philadelphia 34 Pa 1-2-3 Jarvis Electronics Corp
Packard Bell Electronics Corp	Zenith Radio Corp 6001 Dickens Ave	1140 Cherry St Winnetka III 1-2-9
12333 W Olympic Blvd Los Angeles 64 Calif 4-5-7-18-19	Chicago 39 III 4-5-7-13-16-18	Karr Eng'g Corp
Pentron Corp		2995 Middlefield Rd Palo Alto Calif 1-10
777 S Tripp Ave Chicago 24 Ill 4-14	73—RECEIVERS—NAVIGA-	Lear Inc 3171 S Bundy Drive
Philco Corp Tioga & C Sts	TION & SPECIAL	Santa Monica Calif 1-3-4-9
	DUDDOCE	Litton Industries of Calif
	PURPOSE	
Philmore Mfg Co	PURPOSE	336 N Foothill Rd
Philmore Mfg Co 113 University PI New York 3 NY 4-17	PURPOSE	336 N Foothill Rd Beverly Hills Calif Mackay Radio & Telegraph Co Marine Div
Philmore Mfg Co 113 University PI New York 3 NY 4-17 Pratt Albert	NAVIGATION	336 N Foothill Rd Beverly Hills Calif Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10
Philmore Mfg Co 113 University PI New York 3 NY 4-17 Pratt Albert 114 W Lake View Ave	NAVIGATION Receivers, direction finding 1	336 N Foothill Rd Beverly Hills Calif  Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ  Magnatran Inc P O Box 211 Kearny NJ 3
Philmore Mfg Co 113 University PI New York 3 NY 4-17 Pratt Albert 114 W Lake View Ave Milwaukee 17 Wisc 12 Precise Development Corp	NAVIGATION  Receivers, direction finding 1  Receivers, distance measuring . 2	336 N Foothill Rd Beverly Hills Calif Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10 Magnatran Inc P O Box 211 Kearny NJ 3 Michigan Electronics Inc 854 N Rockwell St Chicago 22 III
Philmore Mfg Co 113 University PI New York 3 NY 12 University PI New York 3 NY 13 University PI New York 3 NY 14-17 114 W Lake View Ave Milwaukee 17 Wisc 12 Precise Development Corp 2 Neil Ct Oceanside NY 5	NAVIGATION  Receivers, direction finding 1  Receivers, distance measuring . 2  Receivers, fixed frequency 3	336 N Foothill Rd Beverly Hills Calif  Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ  Magnatran Inc P O Box 211 Kearny NJ  Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill  Minn-Honeywell Regulator Co Ordnance Div
Philmore Mfg Co 113 University PI New York 3 NY 4-17 Pratt Albert 114 W Lake View Ave Milwaukee 17 Wisc 12 Precise Development Corp	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring . 2 Receivers, fixed frequency 3 Receivers, glide slope 4	336 N Foothill Rd Beverly Hills Calif 1-2-3-5 Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10 Magnatran Inc P O Box 211 Kearny NJ 3 Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill 10 Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn 5
Philmore Mfg Co 113 University PI New York 3 NY 12 114 W Lake View Ave Milwaukee 17 Wisc 12 Precise Development Corp 2 Neil Ct Oceanside NY Precision Radiation Instruments Inc 4223 W Jefferson Blvd Los Angeles 16 Calif	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring . 2 Receivers, fixed frequency 3 Receivers, glide slope 4 Receivers, infra-red 5	336 N Foothill Rd Beverly Hills Calif  Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ  Magnatran Inc P O Box 211 Kearny NJ  Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill  Minn-Honeywell Regulator Co Ordnance Div
Philmore Mfg Co 113 University PI New York 3 NY Pratt Albert 114 W Lake View Ave Milwaukee 17 Wisc Precise Development Corp 2 Neil Ct Oceanside NY Precision Radiation Instruments Inc 4223 W Jefferson Blvd Los Angeles 16 Calif Prescott TV Co	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring . 2 Receivers, fixed frequency 3 Receivers, glide slope 4 Receivers, infra-red 5 Receivers, loran 6	336 N Foothill Rd Beverly Hills Calif 1-2-3-5 Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10 Magnatran Inc P O Box 211 Kearny NJ 3 Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill 10 Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn 4-7 Mitchell Industries Inc
Philmore Mfg Co 113 University PI New York 3 NY 114 W Lake View Ave Milwaukee 17 Wisc Precise Development Corp 2 Neil Ct Oceanside NY Precision Radiation Instruments Inc 4223 W Jefferson Blvd Los Angeles 16 Calif Prescott TV Co 7352 Beverly Blvd	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring . 2 Receivers, fixed frequency 3 Receivers, glide slope 4 Receivers, infra-red 5 Receivers, loran 6 Receivers, remote control 7	336 N Foothill Rd Beverly Hills Calif  Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ  Magnatran Inc P O Box 211 Kearny NJ  Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill  Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn  Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn  P O Box 17 F M 1195 Municipal Airport
Philmore Mfg Co 113 University PI New York 3 NY Pratt Albert 114 W Lake View Ave Milwaukee 17 Wisc Precise Development Corp 2 Neil Ct Oceanside NY Precision Radiation Instruments Inc 4223 W Jefferson Blvd Los Angeles 16 Calif Prescott TV Co 7352 Beverly Blvd Los Angeles 36 Calif Production Research Corp	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring . 2 Receivers, fixed frequency 3 Receivers, glide slope 4 Receivers, infra-red 5 Receivers, loran 6 Receivers, remote control 7 Receivers, selective signalling 8	336 N Foothill Rd Beverly Hills Calif 1-2-3-5 Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10 Magnatran Inc P O Box 211 Kearny NJ 3 Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill 10 Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas 9
Philmore Mfg Co 113 University PI New York 3 NY 12 Pratt Albert 114 W Lake View Ave Milwaukee 17 Wisc Precise Development Corp 2 Neil Ct Oceanside NY Precision Radiation Instruments Inc 4223 W Jefferson Blvd Los Angeles 16 Calif Prescott TV Co 7352 Beverly Blvd Los Angeles 36 Calif Production Research Corp Thornwood NY 15-16	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring . 2 Receivers, fixed frequency 3 Receivers, glide slope 4 Receivers, infra-red 5 Receivers, loran 6 Receivers, remote control 7	336 N Foothill Rd Beverly Hills Calif  Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10 Magnatran Inc P O Box 211 Kearny NJ 3 Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas Model Eng'g & Mfg Inc 50 Frederick St
Philmore Mfg Co  113 University PI New York 3 NY Pratt Albert  114 W Lake View Ave Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY Precision Radiation Instruments Inc 4223 W Jefferson Blvd Los Angeles 16 Calif Prescott TV Co 7352 Beverly Blvd Los Angeles 36 Calif Production Research Corp Thornwood NY Pye Canada Ltd  4-17  4-17  4-17  4-17  4-17  4-17  4-17  4-17  5  12  13  14  15  16  17  18  18  18  19  15  16  16  17  18  18  18  18  18  19  18  18  18  18	NAVIGATION  Receivers, direction finding	336 N Foothill Rd Beverly Hills Calif  Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10 Magnatran Inc P O Box 211 Kearny NJ Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-3-4-6-9
Philmore Mfg Co  113 University PI New York 3 NY  Pratt Albert  114 W Lake View Ave Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc  4223 W Jefferson Blvd  Los Angeles 16 Calif  Prescott TV Co  7352 Beverly Blvd  Los Angeles 36 Calif  Production Research Corp Thornwood NY  Pye Canada Ltd  82 Northline Rd  Toronto 16 Ontario Can  4-5-6-7-12-13	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring . 2 Receivers, fixed frequency 3 Receivers, glide slope 4 Receivers, infra-red 5 Receivers, loran 6 Receivers, remote control 7 Receivers, selective signalling 8 Receivers, VHF omnirange 9	336 N Foothill Rd Beverly Hills Calif  Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ  Magnatran Inc P O Box 211 Kearny NJ  Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill  Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn  Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn  P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas  Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind Morrow Radio Mfg Co
Philmore Mfg Co  113 University PI New York 3 NY Pratt Albert  114 W Lake View Ave Milwaukee 17 Wisc  Precise Development Corp 2 Neil Ct Oceanside NY Precision Radiation Instruments Inc 4223 W Jefferson Blvd Los Angeles 16 Calif Prescott TV Co 7352 Beverly Blvd Los Angeles 36 Calif 18-19 Production Research Corp Thornwood NY Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Can Pye Telecommunications Ltd 4-17  4-17	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring 2 Receivers, fixed frequency 3 Receivers, glide slope 4 Receivers, infra-red 5 Receivers, loran 6 Receivers, remote control 7 Receivers, selective signalling 8 Receivers, VHF omnirange 9  SPECIAL PURPOSE Receivers, automatic alarm 10	336 N Foothill Rd Beverly Hills Calif 1-2-3-5 Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10 Magnatran Inc P O Box 211 Kearny NJ 3 Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill 10 Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn 5 Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn 4-7 Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas 9 Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-3-4-6-9 Morrow Radio Mfg Co 2794 Market St Salem Oregon 9 Muirhead Instruments Inc
Philmore Mfg Co  113 University PI New York 3 NY  12 Pratt Albert  114 W Lake View Ave  Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc  4223 W Jefferson Blvd  Los Angeles 16 Calif  Prescott TV Co  7352 Beverly Blvd  Los Angeles 36 Calif  Production Research Corp  Thornwood NY  Pye Canada Ltd  82 Northline Rd  4-5-6-7-12-13  Toronto 16 Ontario Can  Pye Telecommunications Ltd  Newmarket Rd Cambridge England  6	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring 2 Receivers, fixed frequency 3 Receivers, glide slope 4 Receivers, infra-red 5 Receivers, loran 6 Receivers, remote control 7 Receivers, selective signalling 8 Receivers, VHF omnirange 9  SPECIAL PURPOSE  Receivers, automatic alarm 10 Receivers, facsimile 11	336 N Foothill Rd Beverly Hills Calif  Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10 Magnatran Inc P O Box 211 Kearny NJ 3 Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill 10 Minn-Honeywell Regulator Co Ordinance Div Hopkins Minn Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind Morrow Radio Mfg Co 2794 Market St Salem Oregon 9 Muirhead Instruments Inc 677 5 Ave New York 22 NY 11
Philmore Mfg Co 113 University PI New York 3 NY 12 Pratt Albert 114 W Lake View Ave 114 W Lake View Ave 114 W Lake View Ave 115 Precise Development Corp 2 Neil Ct Oceanside NY 12 Precision Radiation Instruments Inc 12 W Jefferson Blvd 12 Los Angeles 16 Calif 18 Prescott TV Co 1352 Beverly Blvd 18 Los Angeles 36 Calif 18 Production Research Corp 18 Thornwood NY 19 Production Research Corp 18 Northline Rd 18 Northline Rd 18 Northline Rd 18 Northline Rd 18 Newmarket Rd Cambridge England 18 Radio Corp of America 18 Commercial Electronic Products	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring 2 Receivers, fixed frequency 3 Receivers, glide slope 4 Receivers, infra-red 5 Receivers, loran 6 Receivers, remote control 7 Receivers, selective signalling 8 Receivers, VHF omnirange 9  SPECIAL PURPOSE Receivers, automatic alarm 10	336 N Foothill Rd Beverly Hills Calif 1-2-3-5  Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10  Magnatran Inc P O Box 211 Kearny NJ 3  Michigan Electronics Inc 354 N Rockwell St Chicago 22 Ill 10  Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn  Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn 4-7  Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas 9  Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind Morrow Radio Mfg Co 2794 Market St Salem Oregon 9  Muirhead Instruments Inc 677 5 Ave New York 22 NY 11  Muirhead & Co Ltd
Philmore Mfg Co  113 University PI New York 3 NY  Pratt Albert  114 W Lake View Ave Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc  4223 W Jefferson Blvd  Los Angeles 16 Calif  Prescott TV Co  7352 Beverly Blvd  Los Angeles 36 Calif  Production Research Corp Thornwood NY  15-16  Production Research Corp Thornwood NY  Pye Canada Ltd  82 Northline Rd  4-5-6-7-12-13  Toronto 16 Ontario Can  Pye Telecommunications Ltd  Newmarket Rd Cambridge England  Radio Corp of America Commercial Electronic Products Camden 2 NJ  2-4-5-7-10-13-17-18-19-22	NAVIGATION  Receivers, distance measuring 2 Receivers, fixed frequency. 3 Receivers, glide slope 4 Receivers, infra-red 5 Receivers, loran 6 Receivers, remote control 7 Receivers, selective signalling 8 Receivers, VHF omnirange 9  SPECIAL PURPOSE  Receivers, automatic alarm 10 Receivers, facsimile 11 Receivers, panoramic 12	336 N Foothill Rd Beverly Hills Calif  Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10 Magnatran Inc P O Box 211 Kearny NJ 3 Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill 10 Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas 9 Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-3-4-6-9 Morrow Radio Mfg Co 2794 Market St Salem Oregon 9 Muirhead Instruments Inc 677 5 Ave New York 22 NY 11 Muirhead & Co Ltd Beckenham Kent England National Aeronautical Corp
Philmore Mfg Co  113 University PI New York 3 NY  Pratt Albert  114 W Lake View Ave Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc  4223 W Jefferson Blvd Los Angeles 16 Calif  Prescott TV Co  7352 Beverly Blvd Los Angeles 36 Calif  Production Research Corp Thornwood NY  15-16  82 Northline Rd  82 Northline Rd  82 Northline Rd  Toronto 16 Ontario Can  Pye Telecommunications Ltd  Newmarket Rd Cambridge England  Radio Corp of America  Commercial Electronic Products  Camden 2 NJ  2-4-5-7-10-13-17-18-19-22  Radio Kits Inc	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring 2 Receivers, fixed frequency 3 Receivers, glide slope 4 Receivers, infra-red 5 Receivers, loran 6 Receivers, remote control 7 Receivers, selective signalling 8 Receivers, VHF omnirange 9  SPECIAL PURPOSE  Receivers, automatic alarm 10 Receivers, facsimile 11 Receivers, panoramic 12  Admiral Corp 3800 W Cortland St Chicago 47 III 6	336 N Foothill Rd Beverly Hills Calif 1-2-3-5 Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10 Magnatran Inc P O Box 211 Kearny NJ 3 Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill 10 Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn 5 Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn 4-7 Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas 9 Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-3-4-6-9 Morrow Radio Mfg Co 2794 Market St Salem Oregon 9 Muirhead Instruments Inc 677 5 Ave New York 22 NY 11 Muirhead & Co Ltd Beckenham Kent England 11 National Aeronautical Corp Ft Washington Industrial Park
Philmore Mfg Co  113 University PI New York 3 NY  Pratt Albert  114 W Lake View Ave Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc 4223 W Jefferson Blvd  Los Angeles 16 Calif  Prescott TV Co 7352 Beverly Blvd  Los Angeles 36 Calif  Production Research Corp Thornwood NY  15-16  Re Northline Rd  Corp of Ontario Can  Pye Telecommunications Ltd  Newmarket Rd Cambridge England  Radio Corp of America  Commercial Electronic Products  Camden 2 NJ  Radio Kits Inc  120 Cedar St  New York 6 NY  4-5-7-8-15-16  17-18-19-20-21	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring 2 Receivers, fixed frequency 3 Receivers, glide slope 4 Receivers, infra-red 5 Receivers, loran 6 Receivers, remote control 7 Receivers, selective signalling 8 Receivers, VHF omnirange 9  SPECIAL PURPOSE  Receivers, automatic alarm 10 Receivers, facsimile 11 Receivers, panoramic 12  Admiral Corp 3800 W Cortland St Chicago 47 III 6 Advance Industries Inc 6	336 N Foothill Rd Beverly Hills Calif  Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10 Magnatran Inc P O Box 211 Kearny NJ 3 Michigan Electronics Inc 854 N Rockwell St. Chicago 22 Ill 10 Minn-Honeywell Regulator Co Ordinance Div Hopkins Minn Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-3-4-6-9 Muirhead Instruments Inc 677 5 Ave New York 22 NY 11 Muirhead & Co Ltd Beckenham Kent England National Aeronautical Corp Ft Washington Industrial Park Ft Washington Pa
Philmore Mfg Co 113 University PI New York 3 NY 12 Pratt Albert 114 W Lake View Ave Milwaukee 17 Wisc 112 Precise Development Corp 2 Neil Ct Oceanside NY 12 Precision Radiation Instruments Inc 12 W Jefferson Blvd 12 Los Angeles 16 Calif 13 Prescott TV Co 1352 Beverly Blvd 12 Los Angeles 36 Calif 13 Production Research Corp 1352 Beverly Blvd 14 Se Northline Rd 15 Production Research Corp 15 Thornwood NY 16 Production Research Corp 16 Toronto 16 Ontario Can 17 Toronto 16 Ontario Can 18 Pye Telecommunications Ltd 18 Newmarket Rd Cambridge England 18 Radio Corp of America 18 Commercial Electronic Products 19 Camden 2 NJ 19 2-4-5-7-10-13-17-18-19-22 19 Radio Kits Inc 120 Cedar St 16 New York 6 NY 16 New York 6 NY 17 Regency Div Idea Inc	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring 2 Receivers, fixed frequency 3 Receivers, glide slope 4 Receivers, infra-red 5 Receivers, loran 6 Receivers, remote control 7 Receivers, selective signalling 8 Receivers, VHF omnirange 9  SPECIAL PURPOSE  Receivers, automatic alarm 10 Receivers, facsimile 11 Receivers, panoramic 12  Admiral Corp 3800 W Cortland St Chicago 47 Ill 6 Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 4-5	336 N Foothill Rd Beverly Hills Calif 1-2-3-5  Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10  Magnatran Inc P O Box 211 Kearny NJ 3  Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill 10  Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn 5  Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn 4-7  Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas 9  Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-3-4-6-9  Morrow Radio Mfg Co 2794 Market St Salem Oregon 9  Muirhead & Co Ltd Beckenham Kent England 11  National Aeronautical Corp Ft Washington Pa 9  Nevada Air Products Co P O Box 2472 Reno Nev 1-5
Philmore Mfg Co  113 University PI New York 3 NY  12 114 W Lake View Ave  Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc  4223 W Jefferson Blvd  Los Angeles 16 Calif  Prescott TV Co  7352 Beverly Blvd  Los Angeles 36 Calif  18-19  Production Research Corp  Thornwood NY  Pye Canada Ltd  82 Northline Rd  4-5-6-7-12-13  Toronto 16 Ontario Can  15-16-18-19  Pye Telecommunications Ltd  Newmarket Rd Cambridge England  Radio Corp of America  Commercial Electronic Products  Camden 2 NJ  2-4-5-7-10-13-17-18-19-22  Radio Kits Inc  120 Cedar St  New York 6 NY  Regency Div Idea Inc  7900 Pendleton Pike	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring 2 Receivers, fixed frequency 3 Receivers, glide slope 4 Receivers, infra-red 5 Receivers, loran 6 Receivers, remote control 7 Receivers, selective signalling 8 Receivers, VHF omnirange 9  SPECIAL PURPOSE  Receivers, automatic alarm 10 Receivers, facsimile 11 Receivers, panoramic 12  Admiral Corp 3800 W Cortland St Chicago 47 III 6 Advance Industries Inc 6	336 N Foothill Rd Beverly Hills Calif  1-2-3-5  Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10  Magnatran Inc P O Box 211 Kearny NJ 3 Michigan Electronics Inc 354 N Rockwell St Chicago 22 Ill 10  Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn  Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas 9  Model Enry & Mfg Inc 50 Frederick St Huntington Ind 1-2-3-4-6-9  Morrow Radio Mfg Co 2794 Market St Salem Oregon 9  Muirhead Instruments Inc 677 5 Ave New York 22 NY 11  Muirhead & Co Ltd Beckenham Kent England National Aeronautical Corp Ft Washington Industrial Park Ft Washington Pa Nevada Air Products Co P O Box 2472 Reno Nev Northern Radio Co
Philmore Mfg Co  113 University PI New York 3 NY  Pratt Albert  114 W Lake View Ave Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc  4223 W Jefferson Blvd Los Angeles 16 Calif  Prescott TV Co  7352 Beverly Blvd Los Angeles 36 Calif  Production Research Corp Thornwood NY  15-16  Production Research Corp Thornwood NY  15-16-18-19  Pye Canada Ltd  82 Northline Rd  4-5-6-7-12-13  Toronto 16 Ontario Can  Pye Telecommunications Ltd  Newmarket Rd Cambridge England Radio Corp of America  Commercial Electronic Products Camden 2 NJ  2-4-5-7-10-13-17-18-19-22  Radio Kits Inc  120 Cedar St  New York 6 NY  Regency Div Idea Inc  7900 Pendleton Pike Indianapolis 26 Ind  2-4-7-17-22	NAVIGATION  Receivers, direction finding	336 N Foothill Rd Beverly Hills Calif 1-2-3-5  Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10  Magnatran Inc P O Box 211 Kearny NJ 3  Michigan Electronics Inc 354 N Rockwell St Chicago 22 Ill 10  Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn 5  Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn 4-7  Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas 9  Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-3-4-6-9  Muirhead Instruments Inc 677 5 Ave New York 22 NY 11  Muirhead & Co Ltd Beckenham Kent England 11  National Aeronautical Corp Ft Washington Industrial Park Ft Washington Industrial Park Ft Washington Pa 9  Nevada Air Products Co P O Box 2472 Reno Nev 1-5  Northern Radio Co 143 W 22 St New York 11 NY 11
Philmore Mfg Co  113 University PI New York 3 NY  Pratt Albert  114 W Lake View Ave Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc 4223 W Jefferson Blvd Los Angeles 16 Calif  Prescott TV Co 7352 Beverly Blvd Los Angeles 36 Calif  Production Research Corp Thornwood NY  15-16  Production Research Corp Thornwood NY  15-16  Production Research Corp Thornwood NY  15-16  Re Northline Rd 4-5-6-7-12-13  Toronto 16 Ontario Can Pye Telecommunications Ltd Newmarket Rd Cambridge England Radio Corp of America Commercial Electronic Products Camden 2 NJ  Radio Kits Inc 120 Cedar St New York 6 NY 17-18-19-20-21  Regency Div Idea Inc 7900 Pendleton Pike Indianapolis 26 Ind Rhein Sound Systems Inc 133 Hamilton St New Haven 5 Conn 5-12-15	NAVIGATION  Receivers, direction finding	336 N Foothill Rd Beverly Hills Calif 1-2-3-5 Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10 Magnatran Inc P O Box 211 Kearny NJ 3 Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill 10 Minn-Honeywell Regulator Co Ordinance Div Hopkins Minn Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas 9 Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-3-4-6-9 Muirhead Instruments Inc 677 5 Ave New York 22 NY 11 Muirhead & Co Ltd Beckenham Kent England National Aeronautical Corp Ft Washington Industrial Park Ft Washington Pa Nevada Air Products Co P O Box 2472 Reno Nev Northern Radio Co 143 W 22 St New York 11 NY 11 Olympic Radio & TV
Philmore Mfg Co  113 University PI New York 3 NY  Pratt Albert  114 W Lake View Ave Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc 4223 W Jefferson Blvd Los Angeles 16 Calif  Prescott TV Co 7352 Beverly Blvd Los Angeles 36 Calif  Production Research Corp Thornwood NY  15-16  Production Research Corp Thornwood NY  15-16  Precommunications Ltd Newmarket Rd Cambridge England Radio Corp of America Commercial Electronic Products Camden 2 NJ  Radio Kits Inc 120 Cedar St New York 6 NY  Regency Div Idea Inc 7900 Pendleton Pike Indianapolis 26 Ind Rhein Sound Systems Inc 133 Hamilton St New Haven 5 Conn 5-12-16  RME Div Electro Voice Inc	NAVIGATION  Receivers, direction finding	336 N Foothill Rd Beverly Hills Calif 1-2-3-5  Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10  Magnatran Inc P O Box 211 Kearny NJ 3  Michigan Electronics Inc 354 N Rockwell St Chicago 22 Ill 10  Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn 5  Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn 4-7  Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas 9  Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-3-4-6-9  Morrow Radio Mfg Co 2794 Market St Salem Oregon 9  Muirhead Instruments Inc 677 5 Ave New York 22 NY 11  Muirhead & Co Ltd Beckenham Kent England 11  National Aeronautical Corp Ft Washington Industrial Park Ft Washington Industrial Park Ft Washington Industrial Park Ft Washington Industrial Park Ft Washington Pa 9  Nevada Air Products Co P O Box 2472 Reno Nev 1-5  Northern Radio Co 143 W 22 St New York 11 NY 11  Olympic Radio & TV 34-01 38 Ave Long Island City 1 NY 1  Panoramic Radio Products Inc
Philmore Mfg Co  113 University PI New York 3 NY  114 W Lake View Ave  Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc  4223 W Jefferson Blvd  Los Angeles 16 Calif  Prescott TV Co  7352 Beverly Blvd  Los Angeles 36 Calif  Production Research Corp  Thornwood NY  15-16  82 Northline Rd  4-5-6-7-12-13  Toronto 16 Ontario Can  Pye Telecommunications Ltd  Newmarket Rd Cambridge England  Radio Corp of America  Commercial Electronic Products  Camden 2 NJ  Radio Kits Inc  120 Cedar St  New York 6 NY  Regency Div Idea Inc  7900 Pendleton Pike  Indianapolis 26 Ind  Rhein Sound Systems Inc  133 Hamilton St New Haven 5 Conn  5-12-18  RME Div Electro Voice Inc  Buchanan Mich  2-22	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring 2 Receivers, fixed frequency 3 Receivers, glide slope 4 Receivers, infra-red 5 Receivers, loran 6 Receivers, remote control 7 Receivers, selective signalling 8 Receivers, vHF omnirange 9  SPECIAL PURPOSE  Receivers, automatic alarm 10 Receivers, facsimile 11 Receivers, panoramic 12  Admiral Corp 3800 W Cortland St Chicago 47 III Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass Aeronautical Comm Equip Co 3090 Douglas Rd Miami 33 Fla 9 Aeronautical Electronics Inc P O Box 6527 Raleigh NC 1 Airborne Electronics Co 6813 Troost Ave N Hollywood Calif Aircraft Radio Corp Boonton NJ 1-4-9	336 N Foothill Rd Beverly Hills Calif 1-2-3-5 Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10 Magnatran Inc P O Box 211 Kearny NJ 3 Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill 10 Minn-Honeywell Regulator Co Ordinance Div Hopkins Minn Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas 9 Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-3-4-6-9 Muirhead Instruments Inc 677 5 Ave New York 22 NY 11 Muirhead & Co Ltd Beckenham Kent England National Aeronautical Corp Ft Washington Industrial Park Ft Washington Pa Nevada Air Products Co P O Box 2472 Reno Nev Northern Radio Co 143 W 22 St New York 11 NY 10 Olympic Radio & TV 34-01 38 Ave Long Island City 1 NY 12 Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 12
Philmore Mfg Co  113 University PI New York 3 NY  12 114 W Lake View Ave  Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc  4223 W Jefferson Blvd  Los Angeles 16 Calif  Prescott TV Co  7352 Beverly Blvd  Los Angeles 36 Calif  Production Research Corp  Thornwood NY  15-16  Production Research Corp  Thornwood NY  15-16-18-19  Pye Canada Ltd  82 Northline Rd  Toronto 16 Ontario Can  Pye Telecommunications Ltd  Newmarket Rd Cambridge England  Radio Corp of America  Commercial Electronic Products  Camden 2 NJ  2-4-5-7-10-13-17-18-19-22  Radio Kits Inc  120 Cedar St  New York 6 NY  Regency Div Idea Inc  7900 Pendleton Pike  Indianapolis 26 Ind  2-4-7-17-22  RME Div Electro Voice Inc  Buchanan Mich  Saratoga Industries  Congress & Ballston Ave	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring 2 Receivers, fixed frequency 3 Receivers, glide slope 4 Receivers, infra-red 5 Receivers, loran 6 Receivers, remote control 7 Receivers, selective signalling 8 Receivers, VHF omnirange 9  SPECIAL PURPOSE  Receivers, automatic alarm 10 Receivers, facsimile 11 Receivers, facsimile 11 Receivers, panoramic 12  Admiral Corp 3800 W Cortland St Chicago 47 Ill 40 Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 4-5 Aeronautical Comm Equip Co 3090 Douglas Rd Miami 33 Fla 9 Aeronautical Electronics Inc P O Box 6527 Raleigh NC 1 Airborne Electronics Co 6813 Troost Ave N Hollywood Calif Aircraft Radio Corp Boonton NJ 1-4-9 Alden Electronic & Impulse Recording	336 N Foothill Rd   1-2-3-5
Philmore Mfg Co  113 University PI New York 3 NY  Pratt Albert  114 W Lake View Ave Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc  4223 W Jefferson Blvd  Los Angeles 16 Calif  Prescott TV Co  7352 Beverly Blvd  Los Angeles 36 Calif  Production Research Corp Thornwood NY  Pye Canada Ltd  82 Northline Rd  Toronto 16 Ontario Can  Pye Telecommunications Ltd  Newmarket Rd Cambridge England  Radio Corp of America  Commercial Electronic Products  Camden 2 NJ  2-4-5-7-10-13-17-18-19-22  Radio Kits Inc  120 Cedar St  New York 6 NY  Regency Div Idea Inc 7900 Pendleton Pike Indianapolis 26 Ind  Rhein Sound Systems Inc  133 Hamilton St New Haven 5 Conn 5-12-18  RME Div Electro Voice Inc Buchanan Mich Saratoga Industries  Congress & Ballston Ave Saratoga Springs NY  4-5	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring 2 Receivers, fixed frequency 3 Receivers, glide slope 4 Receivers, infra-red 5 Receivers, loran 6 Receivers, remote control 7 Receivers, selective signalling 8 Receivers, vHF omnirange 9  SPECIAL PURPOSE  Receivers, automatic alarm 10 Receivers, facsimile 11 Receivers, panoramic 12  Admiral Corp 3800 W Cortland St Chicago 47 Ill 40 Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass Aeronautical Comm Equip Co 3090 Douglas Rd Miami 33 Fla 9 Aeronautical Electronics Inc P O Box 6527 Raleigh NC 1 Airborne Electronics Co 6813 Troost Ave N Hollywood Calif Aircraft Radio Corp Boonton NJ 1-4-9 Alden Electronic & Impulse Recording Equip Co P O Box 125 Westboro Mass 11	336 N Foothill Rd Beverly Hills Calif 1-2-3-5  Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10  Magnatran Inc P O Box 211 Kearny NJ 3  Michigan Electronics Inc 354 N Rockwell St Chicago 22 Ill 10  Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn 5  Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn 4-7  Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas 9  Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-3-4-6-9  Morrow Radio Mfg Co 2794 Market St Salem Oregon 9  Muirhead instruments Inc 677 5 Ave New York 22 NY 11  Muirhead & Co Ltd Beckenham Kent England 11  National Aeronautical Corp Ft Washington Industrial Park Ft Washington Industrial Park Ft Washington Industrial Park Ft Washington Pa 9  Nevada Air Products Co P O Box 2472 Reno Nev 1-5  Northern Radio Co 143 W 22 St New York 11 NY 11  Olympic Radio & TV 34-01 38 Ave Long Island City 1 NY 1  Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 12  Plectron Corp Overton Nebr 8
Philmore Mfg Co  113 University PI New York 3 NY  Pratt Albert  114 W Lake View Ave Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc 4223 W Jefferson Blvd Los Angeles 16 Calif  Prescott TV Co 7352 Beverly Blvd Los Angeles 36 Calif  Production Research Corp Thornwood NY  15-16  Production Research Corp Thornwood NY  15-16-18-19  Pye Canada Ltd 82 Northline Rd 4-5-6-7-12-13  Toronto 16 Ontario Can Pye Telecommunications Ltd Newmarket Rd Cambridge England Radio Corp of America Commercial Electronic Products Camden 2 NJ  Camden 2 NJ  Radio Kits Inc 120 Cedar St New York 6 NY  Regency Div Idea Inc 7900 Pendleton Pike Indianapolis 26 Ind Rhein Sound Systems Inc 133 Hamilton St New Haven 5 Conn 15-12-16  RME Div Electro Voice Inc Buchanan Mich Saratoga Industries Congress & Ballston Ave Saratoga Springs NY  4-6	NAVIGATION  Receivers, direction finding	336 N Foothill Rd   1-2-3-5
Philmore Mfg Co  113 University PI New York 3 NY  Pratt Albert  114 W Lake View Ave Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc 4223 W Jefferson Blvd Los Angeles 16 Calif  Prescott TV Co 7352 Beverly Blvd Los Angeles 36 Calif  Production Research Corp Thornwood NY  15-16  15-16-18-19  Pye Telecommunications Ltd Newmarket Rd Cambridge England Radio Corp of America Commercial Electronic Products Camden 2 NJ  2-4-5-7-10-13-17-18-19-22  Radio Kits Inc 120 Cedar St New York 6 NY 17-18-19-20-21  Regency Div Idea Inc 7900 Pendleton Pike Indianapolis 26 Ind Rhein Sound Systems Inc 133 Hamilton St New Haven 5 Conn 5-12-16  RME Div Electro Voice Inc Buchanan Mich Saratoga Industries Congress & Ballston Ave Saratoga Springs NY  4-5  Seeley Electronics	NAVIGATION  Receivers, direction finding	336 N Foothill Rd Beverly Hills Calif 1-2-3-5 Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10 Magnatran Inc P O Box 211 Kearny NJ 3 Michigan Electronics Inc 354 N Rockwell St Chicago 22 Ill 10 Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn 5 Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn 4-7 Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas 9 Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-3-4-6-9 Muirhead instruments Inc 677 5 Ave New York 22 NY 11 Muirhead & Co Ltd Beckenham Kent England 11 National Aeronautical Corp Ft Washington Industrial Park Ft Washington Industrial Park Ft Washington Pa 9 Nevada Air Products Co P O Box 2472 Reno Nev 1-5 Northern Radio Co 143 W 22 St New York 11 NY 11 Olympic Radio & TV 34-01 38 Ave Long Island City 1 NY 12 Plectron Corp Overton Nebr 8 Polarad Electronics Corp 43-20 34 St Long Island City 1 NY 6 Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY 12
Philmore Mfg Co  113 University PI New York 3 NY  12 114 W Lake View Ave  Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc  4223 W Jefferson Blvd  Los Angeles 16 Calif  Prescott TV Co  7352 Beverly Blvd  Los Angeles 36 Calif  Production Research Corp  Thornwood NY  15-16  Production Research Corp  Thornwood NY  15-16-18-19  Pye Canada Ltd  82 Northline Rd  Toronto 16 Ontario Can  Pye Telecommunications Ltd  Newmarket Rd Cambridge England  Radio Corp of America  Commercial Electronic Products  Camden 2 NJ  2-4-5-7-10-13-17-18-19-22  Radio Kits Inc  120 Cedar St  New York 6 NY  Regency Div Idea Inc  7900 Pendleton Pike  Indianapolis 26 Ind  2-4-7-17-22  Rhein Sound Systems Inc  133 Hamilton St New Haven 5 Conn  5-12-18  RME Div Electro Voice Inc  Buchanan Mich  Saratoga Industries  Congress & Ballston Ave  Saratoga Springs NY  Scott Inc H H  385 Putnam Ave Cambridge 39 Mass  5-8-12  Seeley Electronics  1060 S La Brea Ave Los Angeles 19 Calif (e)	NAVIGATION  Receivers, direction finding	336 N Foothill Rd Beverly Hills Calif  Beverly Hills Calif  Mackay Radio & Telegraph Co Marine Div  133 Terminal Ave Clark NJ  Magnatran Inc P O Box 211 Kearny NJ  Michigan Electronics Inc  354 N Rockwell St Chicago 22 Ill  Minn-Honeywell Regulator Co Ordnance Div  Hopkins Minn  Minn-Honeywell Regulator Co Aero Div  1433 Stinson Blvd Minneapolis Minn  Mitchell Industries Inc  P O Hox 17 F M 1195 Municipal Airport  Mineral Wells Texas  Model Eng'g & Mfg Inc  50 Frederick St  Huntington Ind  1-2-3-4-6-9  Murrhead Instruments Inc  677 5 Ave New York 22 NY  Muirhead & Co Ltd  Beckenham Kent England  National Aeronautical Corp  Ft Washington Industrial Park  Ft Washington Pa  Nevada Air Products Co  P O Box 2472 Reno Nev  Northern Radio Co  143 W 22 St New York 11 NY  Nolympic Radio & TV  34-01 38 Ave Long Island City 1 NY  Panoramic Radio Products Inc  10 S 2 St Mt Vernon NY  Plectron Corp Overton Nebr  Polarad Electronics Corp  43-20 34 St Long Island City 1 NY  Polytechnic Research & Development Co  202 Tillary St Brooklyn 1 NY  Press Wireless Labs Inc
Philmore Mfg Co  113 University PI New York 3 NY  Pratt Albert  114 W Lake View Ave  Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc  4223 W Jefferson Blvd  Los Angeles 16 Calif  Prescott TV Co  7352 Beverly Blvd  Los Angeles 36 Calif  Production Research Corp  Thornwood NY  Pye Canada Ltd  82 Northline Rd  4-5-6-7-12-13  Toronto 16 Ontario Can  Pye Telecommunications Ltd  Newmarket Rd Cambridge England  Radio Corp of America  Commercial Electronic Products  Camden 2 NJ  2-4-5-7-10-13-17-18-19-22  Radio Kits Inc  120 Cedar St  New York 6 NY  Regency Div Idea Inc  7900 Pendleton Pike  Indianapolis 26 Ind  Rhein Sound Systems Inc  133 Hamilton St New Haven 5 Conn 5-12-18  RME Div Electro Voice Inc  Buchanan Mich  Saratoga Industries  Congress & Ballston Ave  Saratoga Springs NY  Scott Inc H H  385 Putnam Ave Cambridge 39 Mass 5-8-12  Seeley Electronics  1060 S La Brea Ave Los Angeles 19 Calif (Setchell-Carlson Inc)	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring 2 Receivers, fixed frequency 3 Receivers, glide slope 4 Receivers, infra-red 5 Receivers, loran 6 Receivers, remote control 7 Receivers, selective signalling 8 Receivers, vHF omnirange 9  SPECIAL PURPOSE  Receivers, automatic alarm 10 Receivers, facsimile 11 Receivers, facsimile 11 Receivers, panoramic 12  Admiral Corp 3800 W Cortland St Chicago 47 III Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass Aeronautical Comm Equip Co 3090 Douglas Rd Miami 33 Fla 9 Aeronautical Electronics Inc P O Box 6527 Raleigh NC 1 Airborne Electronics Co 6813 Troost Ave N Hollywood Calif Aircraft Radio Corp Boonton NJ 14-9 Alden Electronic & Impulse Recording 11-4-9 Alden Electronic & Imp	336 N Foothill Rd Beverly Hills Calif 1-2-3-5 Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10 Magnatran Inc P O Box 211 Kearny NJ 3 Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill 10 Minn-Honeywell Regulator Co Ordinance Div Hopkins Minn Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-3-4-6-9 Muirhead Instruments Inc 677 5 Ave New York 22 NY 11 Muirhead & Co Ltd Beekenham Kent England National Aeronautical Corp Ft Washington Industrial Park Ft Washington Pa Nevada Air Products Co P O Box 2472 Reno Nev Northern Radio Co 143 W 22 St New York 11 NY 12 Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY Plectron Corp Overton Nebr Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass Production Research & Development Co 202 Tillary St Brooklyn 1 NY Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass
Philmore Mfg Co  113 University PI New York 3 NY  12 Pratt Albert  114 W Lake View Ave  Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc  4223 W Jefferson Blvd  Los Angeles 16 Calif  Prescott TV Co  7352 Beverly Blvd  Los Angeles 36 Calif  Production Research Corp  Thornwood NY  15-16  Production Research Corp  Thornwood Itd  82 Northline Rd  4-5-6-7-12-13  Toront 16 Ontario Can  Pye Telecommunications Ltd  Newmarket Rd Cambridge England  Radio Corp of America  Commercial Electronic Products  Camden 2 NJ  2-4-5-7-10-13-17-18-19-22  Radio Kits Inc  120 Cedar St  New York 6 NY  Regency Div Idea Inc  7900 Pendleton Pike  Indianapolis 26 Ind  2-4-7-17-22  RME Div Electro  Buchanan Mich  Saratoga Industries  Congress & Ballston Ave  Saratoga Springs NY  Scott Ine H H  385 Putnam Ave Cambridge 39 Mass 5-8-12  Seeley Electronics  1060 S La Brea Ave Los Angeles 19 Calif 6  Setchell-Carlson Inc  New Brighton St Paul 12 Minn  Skiatron Electronics TV Corp	NAVIGATION  Receivers, direction finding	336 N Foothill Rd Beverly Hills Calif Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ Magnatran Inc P O Box 211 Kearny NJ 3 Michigan Electronics Inc 354 N Rockwell St Chicago 22 Ill Minn-Honeywell Regulator Co Ordinance Div Hopkins Minn Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind Morrow Radio Mfg Co 2794 Market St Salem Oregon Muirhead Instruments Inc 677 5 Ave New York 22 NY 11 Muirhead & Co Ltd Beckenham Kent England National Aeronautical Corp Ft Washington Industrial Park Ft Washington Industrial Park Ft Washington Pa Nevada Air Products Co P O Box 2472 Reno Nev Northern Radio Co 143 W 22 St New York 11 NY 10 Olympic Radio & TV 34-01 38 Ave Long Island City 1 NY Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY Plectron Corp Overton Nebr Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY Press Wireless Labs Inc 25 Prospect PI W Newton 65 Mass 11 Production Research Corp Thornwood NY 1-2-5-8
Philmore Mfg Co  113 University PI New York 3 NY  Pratt Albert  114 W Lake View Ave  Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc  4223 W Jefferson Blvd  Los Angeles 16 Calif  Prescott TV Co  7352 Beverly Blvd  Los Angeles 36 Calif  Production Research Corp  Thornwood NY  Pye Canada Ltd  82 Northline Rd  4-5-6-7-12-13  Toronto 16 Ontario Can  Pye Telecommunications Ltd  Newmarket Rd Cambridge England  Radio Corp of America  Commercial Electronic Products  Camden 2 NJ  2-4-5-7-10-13-17-18-19-22  Radio Kits Inc  120 Cedar St  New York 6 NY  Regency Div Idea Inc  7900 Pendleton Pike  Indianapolis 26 Ind  Rhein Sound Systems Inc  133 Hamilton St New Haven 5 Conn  5-12-18  RME Div Electro Voice Inc  Buchanan Mich  Saratoga Industries  Congress & Ballston Ave  Saratoga Springs NY  Scott Inc H H  385 Putnam Ave Cambridge 39 Mass  5-8-12  Seeley Electronics  1060 S La Brea Ave Los Angeles 19 Calif 6  Setchell-Carlson Inc  New Brighton St New 11 Min 18-19-20-2:  Skiatron Electronics & TV Corp  180 Varick St New York 14 NY  9-16	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring 2 Receivers, fixed frequency 3 Receivers, glide slope 4 Receivers, infra-red 5 Receivers, loran 6 Receivers, remote control 7 Receivers, selective signalling 8 Receivers, vHF omnirange 9  SPECIAL PURPOSE  Receivers, automatic alarm 10 Receivers, facsimile 11 Receivers, facsimile 11 Receivers, panoramic 12  Admiral Corp 3800 W Cortland St Chicago 47 III 6 Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 4-5 Aeronautical Comm Equip Co 3090 Douglas Rd Miami 33 Fla 9 Aeronautical Comm Equip Co 6813 Troost Ave N Hollywood Calif Airborne Electronics Inc P O Box 6527 Raleigh NC 1 Airborne Electronics Inc P O Box 6527 Raleigh NC 1 Airborne Electronice S Inc 11 Aircraft Radio Corp Boonton NJ 14-9 Alden Electronice & Impulse Recording 11 Equip Co P O Box 125 Westboro Mass 11 Alonge Products Inc 163 W 23 St New York 11 NY 17 American Machine & Foundry Co Electronics Div 1085 Commonwealth Ave 1085 Commonwealth Ave 1085 Commonwealth Ave 1085 Commonwealth 108	336 N Foothill Rd Beverly Hills Calif 1-2-3-5 Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10 Magnatran Inc P O Box 211 Kearny NJ 3 Michigan Electronics Inc 364 N Rockwell St Chicago 22 Ill 10 Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn 5 Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn 4-7 Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas 9 Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-3-4-6-9 Morrow Radio Mfg Co 2794 Market St Salem Oregon 9 Muirhead Instruments Inc 677 5 Ave New York 22 NY 11 Muirhead & Co Ltd Beckenham Kent England 11 National Aeronautical Corp Ft Washington Industrial Park Ft Washington Industrial Park Ft Washington Pa Nevada Air Products Co P O Box 2472 Reno Nev 1-5 Northern Radio Co 143 W 22 St New York 11 NY 11 Olympic Radio & TV 34-01 38 Ave Long Island City 1 NY 2 Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 12 Plectron Corp Overton Nebr Polarad Electronics Corp 43-20 34 St Long Island City 1 NY 6 Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY 12 Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass 11 Production Research Corp Thornwood NY 1-2-5-8
Philmore Mfg Co  113 University PI New York 3 NY  12 114 W Lake View Ave Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc  4223 W Jefferson Blvd  Los Angeles 16 Calif  Prescott TV Co  7352 Beverly Blvd  Los Angeles 36 Calif  Production Research Corp Thornwood NY  15-16  Production Research Corp Thornwood NY  15-16  82 Northline Rd  4-5-6-7-12-13  Toronto 16 Ontario Can Pye Telecommunications Ltd  Newmarket Rd Cambridge England  Radio Corp of America  Commercial Electronic Products  Camden 2 NJ  2-4-5-7-10-13-17-18-19-22  Radio Kits Inc  120 Cedar St  New York 6 NY  Regency Div Idea Inc 7900 Pendleton Pike Indianapolis 26 Ind  2-4-7-17-22  Rhein Sound Systems Inc  133 Hamilton St New Haven 5 Conn  1-12-18  RME Div Electro Voice Inc  Buchanan Mich  Saratoga Industries  Congress & Ballston Ave  Saratoga Springs NY  Sectely Electronics  1060 S La Brea Ave Los Angeles 19 Calif  Setchell-Carlson Inc  New Brighton St Paul 12 Minn  18-19-20-21  Skiatron Electronics & TV Corp  180 Varick St New York 14 NY  Spencer-Kennedy Labs Inc	NAVIGATION  Receivers, direction finding	336 N Foothill Rd Beverly Hills Calif  Mackay Radio & Telegraph Co Marine Div  133 Terminal Ave Clark NJ  Magnatran Inc P O Box 211 Kearny NJ  Michigan Electronics Inc  854 N Rockwell St Chicago 22 Ill  Minn-Honeywell Regulator Co Ordinance Div  Hopkins Minn  Minn-Honeywell Regulator Co Aero Div  1433 Stinson Blvd Minneapolis Minn  Mitchell Industries Inc  P O Box 17 F M 1195 Municipal Airport  Mineral Wells Texas  Model Eng'g & Mfg Inc  50 Frederick St  Huntington Ind  Morrow Radio Mfg Co  2794 Market St Salem Oregon  Muirhead Instruments Inc  677 5 Ave New York 22 NY  Muirhead & Co Ltd Beekenham Kent England  National Aeronautical Corp  Ft Washington Industrial Park  Ft Washington Pa  Nevada Air Products Co  P O Box 2472 Reno Nev  Northern Radio Co  143 W 22 St New York 11 NY  Olympic Radio & TV  34-01 38 Ave Long Island City 1 NY  Panoramic Radio Products Inc  10 S 2 St Mt Vernon NY  Plectron Corp Overton Nebr  Polarad Electronics Corp  43-20 34 St Long Island City 1 NY  Polytechnic Research & Development Co  202 Tillary St Brooklyn 1 NY  Press Wireless Labs Inc  25 Prospect Pl W Newton 65 Mass  Production Research & Corp  Thornwood NY  Pye Canada Ltd  82 Northline Rd
Philmore Mfg Co  113 University PI New York 3 NY  12 114 W Lake View Ave  Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc  4223 W Jefferson Blvd  Los Angeles 16 Calif  Prescott TV Co  7352 Beverly Blvd  Los Angeles 36 Calif  Production Research Corp  Thornwood NY  15-16  Production Research Corp  Thornwood NY  15-16  Production Research Corp  Thornwood NY  15-16  Prescott TV Co  7352 Beverly Blvd  Los Angeles 36 Calif  Production Research Corp  Thornwood NY  15-16  Production Research Corp  Thornwood NY  15-16  Production Research Corp  Thornwood NY  Pye Canada Ltd  82 Northline Rd  4-5-6-7-12-13  Cornoto 16 Ontario Can  Pye Telecommunications Ltd  Newmarket Rd Cambridge England  Radio Corp of America  Commercial Electronic Products  Camden 2 NJ  2-4-5-7-10-13-17-18-19-22  Radio Kits Inc  120 Cedar St  New York 6 NY  17-18-19-20-21  Regency Div Idea Inc  7900 Pendleton Pike  Indianapolis 26 Ind  Rhein Sound Systems Inc  133 Hamilton St New Haven 5 Conn  134 Hamilton St New Haven 5 Conn  Saratoga Industries  Congress & Ballston Ave  Saratoga Industries  Congress & Ballston Ave  Saratoga Springs NY  4-5  Seeley Electronics  1060 S La Brea Ave Los Angeles 19 Calif ( Setchell-Carlson Inc  New Brighton St Paul 12 Minn  18-19-20-2:  Skiatron Electronics & TV Corp  180 Varick St New York 14 NY  Spencer-Kennedy Labs Inc  1320 Soldiers Field Rd Boston 35 Mass  Superex Electronics Corp	NAVIGATION  Receivers, direction finding	336 N Foothill Rd Beverly Hills Calif Beverly Hills Calif Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ Magnatran Inc P O Box 211 Kearny NJ Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind Morrow Radio Mfg Co 2794 Market St Salem Oregon Muirhead Instruments Inc 677 5 Ave New York 22 NY Muirhead Instruments Inc 677 5 Ave New York 22 NY Muirhead Ac Co Ltd Beckenham Kent England National Aeronautical Corp Ft Washington Industrial Park Ft Washington Pa Nevada Air Products Co P O Box 2472 Reno Nev Northern Radio Co 143 W 22 St New York 11 NY 34-01 38 Ave Long Island City 1 NY Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 12 Plectron Corp Overton Nebr Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Plectron Corp Overton Nebr Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass 11 Production Research Corp Thornwood NY Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada Pye Telecommunications Ltd
Philmore Mfg Co  113 University PI New York 3 NY  12 114 W Lake View Ave  Milwaukee 17 Wise  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc  4223 W Jefferson Blvd  Los Angeles 16 Calif  Prescott TV Co  7352 Beverly Blvd  Los Angeles 36 Calif  Production Research Corp  Thornwood NY  15-16  Production Research Corp  Thornwood NY  15-16-18-19  Pye Canada Ltd  82 Northline Rd  4-5-6-7-12-13  Toronto 16 Ontario Can  15-16-18-19  Pye Telecommunications Ltd  Newmarket Rd Cambridge England  Radio Corp of America  Commercial Electronic Products  Camden 2 NJ  2-4-5-7-10-13-17-18-19-22  Radio Kits Inc  120 Cedar St  New York 6 NY  Regency Div Idea Inc  7900 Pendleton Pike  Indianapolis 26 Ind  2-4-7-17-22  Rhein Sound Systems Inc  133 Hamilton St New Haven 5 Conn  1-12-18  RME Div Electrov Voice Inc  Buchanan Mich  Saratoga Industries  Congress & Ballston Ave  Saratoga Industries  Congress & Ballston Ave  Saratoga Springs NY  4-6  Setchell-Carlson Inc  New Brighton St Paul 12 Minn  18-19-20-21  Robert Piectronics  1060 S La Brea Ave Los Angeles 19 Calif 6  Setchell-Carlson Inc  New Brighton St Paul 12 Minn  18-19-20-21  Robert Piectronics  1320 Soldiers Field Rd Boston 35 Mass  Superex Electronics Corp  4 Radford Pl Yonkers NY  4-7-22-2	NAVIGATION  Receivers, direction finding	336 N Foothill Rd Beverly Hills Calif 1-2-3-5 Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ 1-6-10 Magnatran Inc P O Box 211 Kearny NJ 3 Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill 10 Minn-Honeywell Regulator Co Ordinance Div Hopkins Minn 5 Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn 4-7 Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas 9 Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 1-2-3-4-6-9 Morrow Radio Mfg Co 2794 Market St Salem Oregon 9 Muirhead Instruments Inc 677 5 Ave New York 22 NY 11 Muirhead & Co Ltd Beecknham Kent England 11 National Aeronautical Corp Ft Washington Industrial Park Ft Washington Pa 9 Nevada Air Products Co P O Box 2472 Reno Nev 1-5 Northern Radio Co 143 W 22 St New York 11 NY 1 Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 12 Plectron Corp Overton Nebr Polarad Electronics Corp 43-20 34 St Long Island City 1 NY 1 Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 12 Plectron Corp Overton Nebr Polarad Electronics Corp 43-20 34 St Long Island City 1 NY 6 Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY 12 Press Wireless Labs Inc 25 Prospect PI W Newton 65 Mass 11 Production Research & Development Co 202 Tillary St Brooklyn 1 NY 12 Press Wireless Labs Inc 25 Prospect PI W Newton 65 Mass 11 Production Research Corp Thornwood NY 1-2-5-8 Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada 2 Pye Telecommunications Ltd Newmarket Rd Cambridge England
Philmore Mfg Co  113 University PI New York 3 NY  Pratt Albert  114 W Lake View Ave  Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc  4223 W Jefferson Blvd  Los Angeles 16 Calif  Prescott TV Co  7352 Beverly Blvd  Los Angeles 36 Calif  Production Research Corp  Thornwood NY  Pye Canada Ltd  82 Northline Rd  4-5-6-7-12-13  Toronto 16 Ontario Can  Pye Telecommunications Ltd  Newmarket Rd Cambridge England  Radio Corp of America  Commercial Electronic Products  Camden 2 NJ  2-4-5-7-10-13-17-18-19-22  Radio Kits Inc  120 Cedar St  New York 6 NY  Regency Div Idea Inc  7900 Pendleton Pike  Indianapolis 26 Ind  Rhein Sound Systems Inc  133 Hamilton St New Haven 5 Conn 5-12-18  RME Div Electro Voice Inc  Buchanan Mich  Saratoga Industries  Congress & Ballston Ave  Saratoga Springs NY  Scott Inc H H  385 Putnam Ave Cambridge 39 Mass 5-8-12  Seeley Electronics  1060 S La Brea Ave Los Angeles 19 Calif 6  Setchell-Carlson Inc  New Brighton St Paul 12 Minn  18-19-20-21  Roeley Electronics  1060 S La Brea Ave Los Angeles 19 Calif 6  Setchell-Carlson Inc  New Brighton St Paul 12 Minn  18-19-20-21  Roeley Electronics  1060 S La Brea Ave Los Angeles 19 Calif 6  Setchell-Carlson Inc  New Brighton St Paul 12 Minn  18-19-20-21  Roeley Electronics  1060 S La Brea Ave Los Angeles 19 Calif 6  Setchell-Carlson Inc  New Brighton St Paul 12 Minn  18-19-20-21  Roeley Electronics & TV Corp  180 Varick St New York 14 NY  Spencer-Kennedy Labs Inc  1320 Soldiers Field Rd Boston 35 Mass  Superex Electronics Corp  4 Radford Pl Yonkers NY  Stewart Warner Electronics Div	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring 2 Receivers, fixed frequency 3 Receivers, glide slope 4 Receivers, infra-red 5 Receivers, loran 6 Receivers, remote control 7 Receivers, selective signalling 8 Receivers, vHF omnirange 9  SPECIAL PURPOSE  Receivers, automatic alarm 10 Receivers, facsimile 11 Receivers, facsimile 11 Receivers, panoramic 12  Admiral Corp 3800 W Cortland St Chicago 47 Ill 640 Memorial Dr Cambridge 39 Mass 4-5 Aeronautical Comm Equip Co 3090 Douglas Rd Miami 33 Fla 9 Aeronautical Comm Equip Co 3090 Douglas Rd Miami 33 Fla 9 Aeronautical Electronics Inc P O Box 6527 Raleigh NC 1 Airborne Electronics Co 6813 Troost Ave N Hollywood Calif 1-4-9 Alden Electronic & Impulse Recording Equip Co P O Box 125 Westboro Mass 11 Alonge Products Inc 163 W 23 St New York 11 NY 17 American Machine & Foundry Co Electronics Div 1085 Commonwealth Ave 80ston 15 Mass 2-3-10 American Machine & Foundry Co 213 E Grand Ave S San Francisco Calif 1 Babcock Radio Eng'g Inc 7942 Woodley Ave Van Nuys Calif 7 Barker & Williamson Inc	336 N Foothill Rd Beverly Hills Calif Beverly Hills Calif Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ Magnatran Inc P O Box 211 Kearny NJ Michigan Electronics Inc 364 N Rockwell St Chicago 22 Ill Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind Forew Radio Mfg Co 2794 Market St Salem Oregon Muirhead Instruments Inc 677 5 Ave New York 22 NY Muirhead & Co Ltd Beckenham Kent England National Aeronautical Corp Ft Washington Industrial Park Ft Washington Industrial Park Ft Washington Pa Nevada Air Products Co P O Box 2472 Reno Nev Northern Radio Co 143 W 22 St New York 11 NY Olympic Radio & TV 34-01 38 Ave Long Island City 1 NY Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY Plectron Corp Overton Nebr Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass Production Research Corp Thornwood NY Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada Pye Telecommunications Ltd Newmarket Rd Cambridge England Raytheon Mfg Co
Philmore Mfg Co  113 University PI New York 3 NY  Pratt Albert  114 W Lake View Ave Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc  4223 W Jefferson Blvd  Los Angeles 16 Calif  Prescott TV Co  7352 Beverly Blvd  Los Angeles 36 Calif  Production Research Corp Thornwood NY  Pye Canada Ltd  82 Northline Rd  Toronto 16 Ontario Can  Pye Telecommunications Ltd  Newmarket Rd Cambridge England  Radio Corp of America  Commercial Electronic Products  Camden 2 NJ  2-4-5-7-10-13-17-18-19-22  Radio Kits Inc  120 Cedar St  New York 6 NY  Regency Div Idea Inc  7900 Pendleton Pike Indianapolis 26 Ind  Rhein Sound Systems Inc  133 Hamilton St New Haven 5 Conn 5-12-18  RME Div Electro Voice Inc Buchanan Mich  Saratoga Industries  Congress & Ballston Ave Saratoga Industries  Congress & Ballston Ave Saratoga Springs NY  Scott Inc H H  385 Putnam Ave Cambridge 39 Mass 5-8-12  Seeley Electronics  1060 S La Brea Ave Los Angeles 19 Calif 6  Setchell-Carlson Inc  New Brighton St Paul 12 Minn 18-19-20-2:  Skiatron Electronics & TV Corp  180 Varick St New York 14 NY  Spencer-Kennedy Labs Inc  1320 Soldiers Field Rd Boston 35 Mass  2 Superex Electronics Corp  4 Radford Pl Yonkers NY  4-7-22-2:  Stewart Warner Electronics Div  1300 N Kostner Ave Chicago 51 III  Stromberg-Carlson Div General Dynamics Corp	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring 2 Receivers, fixed frequency 3 Receivers, glide slope 4 Receivers, infra-red 5 Receivers, infra-red 5 Receivers, remote control 7 Receivers, remote control 7 Receivers, selective signalling 8 Receivers, vHF omnirange 9  SPECIAL PURPOSE  Receivers, automatic alarm 10 Receivers, facsimile 11 Receivers, facsimile 11 Receivers, panoramic 12  Admiral Corp 3800 W Cortland St Chicago 47 Ill 640 Memorial Dr Cambridge 39 Mass 4-5 Aeronautical Comm Equip Co 3090 Douglas Rd Miami 33 Fla 9 Aeronautical Comm Equip Co 3090 Douglas Rd Miami 33 Fla 9 Aeronautical Electronics Inc P O Box 6527 Raleigh NC 1 Airborne Electronics Co 6813 Troost Ave N Hollywood Calif 1-4-9 Alden Electronic & Impulse Recording Equip Co P O Box 125 Westboro Mass 11 Alonge Products Inc 163 W 23 St New York 11 NY 17 American Machine & Foundry Co Electronics Div 1085 Commonwealth Ave 80ston 15 Mass 2-3-10 American Machine & Foundry Co 213 E Grand Ave S San Francisco Calif 1 Babeock Radio Eng'g Inc 7942 Woodley Ave Van Nuys Calif 7 Barker & Williamson Inc Canal & Beaver Sts Bristol Pa 10	Beverly Hills Calif Beverly Hills Calif Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ Magnatran Inc P O Box 211 Kearny NJ Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill Minn-Honeywell Regulator Co Ordinance Div Hopkins Minn Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind Morrow Radio Mfg Co 2794 Market St Salem Oregon Muirhead Instruments Inc 677 5 Ave New York 22 NY Muirhead Instruments Inc 677 5 Ave New York 22 NY Muirhead Instruments Inc 677 t Washington Industrial Park Ft Washington Pa Nevada Air Products Co P O Box 2472 Reno Nev Northern Radio Co 143 W 22 St New York 11 NY 34-01 38 Ave Long Island City 1 NY Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY Plectron Corp Overton Nebr Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Plectron Corp Overton Nebr Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Pletcron Corp Overton Nebr Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Pletcron Corp Overton Nebr Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Pletcron Research & Development Co 202 Tillary St Brooklyn 1 NY Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass Production Research Corp Thornwood NY Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada Pye Telecommunications Ltd Newmarket Rd Cambridge England Raytheon Mfg Co 100 River St Waltham 54 Mass
Philmore Mfg Co  113 University PI New York 3 NY  121 University PI New York 3 NY  121 W Lake View Ave  Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc  4223 W Jefferson Blvd  Los Angeles 16 Calif  Prescott TV Co  7352 Beverly Blvd  Los Angeles 36 Calif  Production Research Corp  Thornwood NY  15-16  Research Cambridge England  Radio Corp of America  Commercial Electronic Products  Camden 2 NJ  2-4-5-7-10-13-17-18-19-22  Radio Kits Inc  120 Cedar St  New York 6 NY  17-18-19-20-21  Regency Div Idea Inc  7900 Pendleton Pike  Indianapolis 26 Ind  Rhein Sound Systems Inc  133 Hamilton St New Haven 5 Conn 5-12-16  RME Div Electro Voice Inc  Buchanan Mich  Saratoga Industries  Congress & Ballston Ave  Saratoga Springs NY  4-5  Seeley Electronics  1060 S La Brea Ave Los Angeles 19 Calif ( Setchell-Carlson Inc  New Brighton St Paul 12 Minn 18-19-20-2  Skiatron Electronics & TV Corp  180 Varick St New York 14 NY  Spencer-Kennedy Labs Inc  1320 Soldiers Field Rd Boston 35 Mass  Superex Electronics Corp  4 Radford Pl Yonkers NY  4-7-22-2  Stewart Warner Electronics Div  1300 N Kostner Ave Chicago 51 III  5-11  Stromberg-Carlson Div General Dynamics Corp  100 Carlson Rd Rochester 3 NY  4-5-5-7-10-13-17-18-19-20-2  100 Carlson Rd Rochester 3 NY  4-5-6-7-12-13  15-16  15-16  15-16  15-16  15-16  16-18  19-19  18	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring 2 Receivers, fixed frequency 3 Receivers, glide slope 4 Receivers, infra-red 5 Receivers, infra-red 5 Receivers, remote control 7 Receivers, remote control 7 Receivers, selective signalling 8 Receivers, vHF omnirange 9  SPECIAL PURPOSE  Receivers, automatic alarm 10 Receivers, facsimile 11 Receivers, facsimile 11 Receivers, panoramic 12  Admiral Corp 3800 W Cortland St Chicago 47 Ill 640 Memorial Dr Cambridge 39 Mass 4-5 Aeronautical Comm Equip Co 3090 Douglas Rd Miami 33 Fla 9 Aeronautical Comm Equip Co 3090 Douglas Rd Miami 33 Fla 9 Aeronautical Electronics Inc P O Box 6527 Raleigh NC 1 Airborne Electronics Co 6813 Troost Ave N Hollywood Calif 1-4-9 Alden Electronic & Impulse Recording Equip Co P O Box 125 Westboro Mass 11 Alonge Products Inc 163 W 23 St New York 11 NY 17 American Machine & Foundry Co Electronics Div 1085 Commonwealth Ave 80ston 15 Mass 2-3-10 American Machine & Foundry Co 213 E Grand Ave S San Francisco Calif 1 Babeock Radio Eng'g Inc 7942 Woodley Ave Van Nuys Calif 7 Barker & Williamson Inc Canal & Beaver Sts Bristol Pa 10	336 N Foothill Rd   1-2-3-5
Philmore Mfg Co  113 University PI New York 3 NY  Pratt Albert  114 W Lake View Ave Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc  4223 W Jefferson Blvd  Los Angeles 16 Calif  Prescott TV Co  7352 Beverly Blvd  Los Angeles 36 Calif  Production Research Corp Thornwood NY  Pye Canada Ltd  82 Northline Rd  Toronto 16 Ontario Can  Pye Telecommunications Ltd  Newmarket Rd Cambridge England  Radio Corp of America  Commercial Electronic Products  Camden 2 NJ  2-4-5-7-10-13-17-18-19-22  Radio Kits Inc  120 Cedar St  New York 6 NY  Regency Div Idea Inc  7900 Pendleton Pike Indianapolis 26 Ind  Rhein Sound Systems Inc  133 Hamilton St New Haven 5 Conn 5-12-18  RME Div Electro Voice Inc Buchanan Mich  Saratoga Industries  Congress & Ballston Ave Saratoga Industries  Congress & Ballston Ave Saratoga Springs NY  Scott Inc H H  385 Putnam Ave Cambridge 39 Mass 5-8-12  Seeley Electronics  1060 S La Brea Ave Los Angeles 19 Calif 6  Setchell-Carlson Inc  New Brighton St Paul 12 Minn 18-19-20-2:  Skiatron Electronics & TV Corp  180 Varick St New York 14 NY  Spencer-Kennedy Labs Inc  1320 Soldiers Field Rd Boston 35 Mass  2 Superex Electronics Corp  4 Radford Pl Yonkers NY  4-7-22-2:  Stewart Warner Electronics Div  1300 N Kostner Ave Chicago 51 III  Stromberg-Carlson Div General Dynamics Corp	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring 2 Receivers, fixed frequency 3 Receivers, glide slope 4 Receivers, infra-red 5 Receivers, loran 6 Receivers, remote control 7 Receivers, selective signalling 8 Receivers, vHF omnirange 9  SPECIAL PURPOSE  Receivers, automatic alarm 10 Receivers, facsimile 11 Receivers, facsimile 11 Receivers, facsimile 12  Admiral Corp 3800 W Cortland St Chicago 47 Ill 640 Memorial Dr Cambridge 39 Mass Aeronautical Comm Equip Co 3090 Douglas Rd Miami 33 Fla 9 Aeronautical Electronics Inc P O Box 6527 Raleigh NC 1 Airborne Electronics Co 6813 Troost Ave N Hollywood Calif Aircraft Radio Corp Boonton NJ 1-4-9 Alden Electronic & Impulse Recording Equip Co P O Box 125 Westboro Mass 163 W 23 St New York 11 NY 17 American Machine & Foundry Co Electronics Div 1085 Commonwealth Ave Boston 15 Mass 2-3-10 American Machine & Foundry Co 2-3-10 American Machine & Foundry Co 2-3-6-8 Applied Electronics Co 213 E Grand Ave S San Francisco Calif 1 Babcock Radio Eng'g Inc 7942 Woodley Ave Van Nuys Calif 7942 Reserver Sts Bristol Pa 10 Bassett Inc Rex 1314 N E 17 Ct Ft Lauderdale Fla 3 Bell Aircraft Corp	Beverly Hills Calif Beverly Hills Calif Beverly Hills Calif Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ Magnatran Inc P O Box 211 Kearny NJ Michigan Electronics Inc 854 N Rockwell St Chicago 22 III Minn-Honeywell Regulator Co Ordinance Div Hopkins Minn Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind Morrow Radio Mfg Co 2794 Market St Salem Oregon Muirhead Instruments Inc 677 5 Ave New York 22 NY Muirhead & Co Ltd Beekenham Kent England National Aeronautical Corp Ft Washington Industrial Park Ft Washington Pa Nevada Air Products Co P O Box 2472 Reno Nev Northern Radio Co 143 W 22 St New York 11 NY Olympic Radio & TV 34-01 38 Ave Long Island City 1 NY Plectron Corp Overton Nebr Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Plectron Corp Overton Nebr Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass Production Research & Development Co 202 Tillary St Brooklyn 1 NY Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass Production Research Corp Thornwood NY Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada Pye Telecommunications Ltd Newmarket Rd Cambridge England Raytheon Mfg Co 100 River St Waltham 54 Mass 1 Resdel Eng'g Corp 330 S Fair Oaks Ave Pasadena Calif 9 Rhein Sound Systems Inc
Philmore Mfg Co  113 University PI New York 3 NY  121 University PI New York 3 NY  124 W Lake View Ave  Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc  4223 W Jefferson Blvd  Los Angeles 16 Calif  Prescott TV Co  7352 Beverly Blvd  Los Angeles 36 Calif  Production Research Corp  Thornwood NY  15-16  Production Research Corp  Thornwood NY  15-16-18-19  Pye Canada Ltd  82 Northline Rd  4-5-6-7-12-13  Toronto 16 Ontario Can  Pye Telecommunications Ltd  Newmarket Rd Cambridge England  Radio Corp of America  Commercial Electronic Products  Camden 2 NJ  2-4-5-7-10-13-17-18-19-22  Radio Kits Inc  120 Cedar St  New York 6 NY  17-18-19-20-21  Regency Div Idea Inc  7900 Pendleton Pike  Indianapolis 26 Ind  Rhein Sound Systems Inc  133 Hamilton St New Haven 5 Conn  134 Hamilton St New Haven 5 Conn  Saratoga Industries  Congress & Ballston Ave  Saratoga Springs NY  Scott Ine H H  385 Putnam Ave Cambridge 39 Mass  5-8-12  Seeley Electronics  1060 S La Brea Ave Los Angeles 19 Calif  Setchell-Carlson Inc  New Brighton St Paul 12 Minn  18-19-20-2:  Skiatron Electronics & TV Corp  180 Varick St New York 14 NY  Spencer-Kennedy Labs Inc  1320 Soldiers Field Rd Boston 35 Mass  2:  Superex Electronics & TV Corp  4 Radford Pl Yonkers NY  4-7-22-2:  4-7-7-2-2-2:  4-7-7-2-2-2:	NAVIGATION  Receivers, direction finding 1 Receivers, distance measuring 2 Receivers, fixed frequency 3 Receivers, glide slope 4 Receivers, loran 6 Receivers, loran 6 Receivers, remote control 7 Receivers, selective signalling 8 Receivers, vHF omnirange 9  SPECIAL PURPOSE  Receivers, automatic alarm 10 Receivers, facsimile 11 Receivers, facsimile 11 Receivers, panoramic 12  Admiral Corp 3800 W Cortland St Chicago 47 Ill 6 Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 4-5 Aeronautical Comm Equip Co 3090 Douglas Rd Miami 33 Fla 9 Aeronautical Electronics Inc P. O Box 6527 Raleigh NC 1 Airborne Electronics Co 6813 Troost Ave N Hollywood Calif 1 Aircraft Radio Corp Boonton NJ 1-4-9 Alden Electronics Co 613 W 23 St New York 11 NY 17 American Machine & Foundry Co Electronics Div 1085 Commonwealth Ave Boston 15 Mass 2-3-10 American Machine & Foundry Co Electronics Co 213 E Grand Ave S San Francisco Calif 1 Babcock Radio Eng'g Inc 7942 Woodley Ave Van Nuys Calif 7 Barker & Williamson Inc Canal & Beaver Sts Bristol Pa 10 Bassett Inc Rex 1314 N E 17 Ct Ft Lauderdale Fla 3 Bell Aircraft Corp 9 O Box 1 Buffalo 5 NY 1-2-3-4-5-6-7-8-9	Beverly Hills Calif Beverly Hills Calif Beverly Hills Calif Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ Magnatran Inc P O Box 211 Kearny NJ Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill Minn-Honeywell Regulator Co Ordinance Div Hopkins Minn Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind Morrow Radio Mfg Co 2794 Market St Salem Oregon Muirhead Minneauts Inc 677 5 Ave New York 22 NY Muirhead & Co Ltd Beckenham Kent England National Aeronautical Corp Ft Washington Industrial Park Ft Washington Industrial Park Ft Washington Pa Nevada Air Products Co P O Box 2472 Reno Nev Northern Radio Co 143 W 22 St New York 11 NY Olympic Radio & TV 34-01 38 Ave Long Island City 1 NY Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY Plectron Corp Overton Nebr Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY Press Wireless Lats Inc 25 Prospect PI W Newton 65 Mass 11 Production Research & Development Co 202 Tillary St Brooklyn 1 NY Press Wireless Lats Inc 25 Prospect PI W Newton 65 Mass 11 Production Research Corp Thornwood NY 1-2-5-8 Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada Pye Telecommunications Ltd Newmarket Rd Cambridge England Raytheon Mfg Co 100 River St Waltham 54 Mass Resdel Eng'g Corp 330 S Fair Oaks Ave Pasadena Calif Rhein Sound Systems Inc 133 Hamilton St New Haven 5 Conn 3-10
Philmore Mfg Co  113 University PI New York 3 NY  114 W Lake View Ave  Milwaukee 17 Wisc  Precise Development Corp  2 Neil Ct Oceanside NY  Precision Radiation Instruments Inc  4223 W Jefferson Blvd  Los Angeles 16 Calif  Prescott TV Co  7352 Beverly Blvd  Los Angeles 36 Calif  Production Research Corp  Thornwood NY  15-16  Prescott TV Co  7352 Beverly Blvd  Los Angeles 36 Calif  Production Research Corp  Thornwood NY  15-16  Reg Ne Title 18-19  Pye Telecommunications Ltd  Newmarket Rd Cambridge England  Radio Corp of America  Commercial Electronic Products  Camden 2 NJ  2-4-5-7-10-13-17-18-19-22  Radio Kits Inc  120 Cedar St  New York 6 NY  17-18-19-20-21  Regency Div Idea Inc  7900 Pendleton Pike  Indianapolis 26 Ind  Rhein Sound Systems Inc  133 Hamilton St New Haven 5 Conn 5-12-16  RME Div Electro Voice Inc  Buchanan Mich  Saratoga Industries  Congress & Ballston Ave  Saratoga Industries  Congress & Ballston Ave  Saratoga Springs NY  Scott Inc H H  385 Putnam Ave Cambridge 39 Mass 5-8-12  Seeley Electronics  1060 S La Brea Ave Los Angeles 19 Calif ( Setchell-Carlson Inc  New Brighton St Paul 12 Minn  18-19-20-21  180 Varick St New York 14 NY  Spencer-Kennedy Labs Inc  1320 Soldiers Field Rd Boston 35 Mass  Superex Electronics Corp  4 Radford Pl Yonkers NY  Stewart Warner Electronics Div  1300 N Kostner Ave Chicago 51 III  5-11  Stromberg-Carlson Div General Dynamics Corp  100 Carlson Rd Rochester 3 NY  S-12-12  Stevart Warner Electronics Div  1300 N Kostner Ave Chicago 51 III  5-11  Stromberg-Carlson Div General Dynamics Corp  100 Carlson Rd Rochester 3 NY  S-12-12  Stevart Warner Electronics Div  1310 N Kostner Ave Chicago 51 III  Stromberg-Carlson Div General Dynamics Corp	NAVIGATION  Receivers, direction finding	Beverly Hills Calif Beverly Hills Calif Beverly Hills Calif Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ Magnatran Inc P O Box 211 Kearny NJ Michigan Electronics Inc 854 N Rockwell St Chicago 22 III Minn-Honeywell Regulator Co Ordinance Div Hopkins Minn Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd Minneapolis Minn Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind Morrow Radio Mfg Co 2794 Market St Salem Oregon Muirhead Instruments Inc 677 5 Ave New York 22 NY Muirhead & Co Ltd Beekenham Kent England National Aeronautical Corp Ft Washington Industrial Park Ft Washington Pa Nevada Air Products Co P O Box 2472 Reno Nev Northern Radio Co 143 W 22 St New York 11 NY Olympic Radio & TV 34-01 38 Ave Long Island City 1 NY Plectron Corp Overton Nebr Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Plectron Corp Overton Nebr Polarad Electronics Corp 43-20 34 St Long Island City 1 NY Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass Production Research & Development Co 202 Tillary St Brooklyn 1 NY Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass Production Research Corp Thornwood NY Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada Pye Telecommunications Ltd Newmarket Rd Cambridge England Raytheon Mfg Co 100 River St Waltham 54 Mass 1 Resdel Eng'g Corp 330 S Fair Oaks Ave Pasadena Calif 9 Rhein Sound Systems Inc

Schafer Custom Eng'g		DuKane Corp	Production Research Corp
235 S 3 St Burbank Calif	10	St Charles Ill	Thornwood NY
Schirmer-National Alarm Co		Dunlap Electronics	Pye Canada Ltd
20 Westside Ave Bergenfield NJ Seismograph Service Corp	10	764 9 St Des Moines 14 Iowa 7 Electrola Inc	82 Northline Rd Toronto 16 Ontario Canada 7
6200 E 41 St Tulsa 1 Oklo	2	7517 N Clark St Chicago 26 111	Radio Corp of America Commercial
Servo Corp of America		Electronic Secretary Industries Inc	Electronic Products Camden 2 NJ 7-10-14
2020 Jericho Turnpike New Hyde Park Skiatron Electronics & TV Corp	NY 5	805 S 5 St Milwaukee 4 Wis 16	Rek-O-Kut Co 38-01 Queens Blvd
180 Varick St New York 14 NV	2-8-11	Electro-Sonic Labs 35-54 36 St Long Island City 6 NY 12	Long Island City 1 NY 4-11
Sperry Gyroscope Co Div Sperry Rand C	Corp	Electro-Technical Labs Div Mandrel	Revere Camera Co
	-2-3-6	Industries 5134 Glenmont	320 E 21 St Chicago 16 Ill 7-11-15 Rich Electronics Inc
U S Route 22 Plainfield NJ	2	Houston Texas	212 NW 8 Ave Miami 36 Fla 12
Stewart Warner Electronics Div		Epsylon Sales & Service Ltd N Feltham Trading Estate Faggs Rd	Rockbar Corp
1300 N Kostner Ave Chicago 51 III 1 5	2-5-11	Bedfont Feltham Middlesex England 7	650 Halstead Ave Mamaroneck NY 7 Scully Machine Co
Telemarine Communications Co		Ercona Corp	62 Walter St Bridgeport 8 Conn 4
3040 W 21 St Brooklyn 24 NY Texas Instruments Inc	1-3	551 5 Ave New York 17 NY 2-7	Seismograph Service Corp
6000 Lemmon Ave Dallas 9 Texas	5	Fairchild Recording Equipment Co 10-40 45 Ave Long Island City 1 NY 4-13	6200 E 41 St Tulsa 1 Okla 5
limes racsimile Corp	•	Federal Mfg & Eng'y Corp	Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY 7
540 W 58 St New York 19 NY Vectron Inc	11	1055 Stewart Ave Garden City NY 7	SoundScriber Corp
1611 Trapelo Rd Waltham 54 Mass	12	Felt & Tarrant Mfg Co Comptometer	146 Munson St
wagner Co H A	12	Dictation Div Algonquin III 3-9-11 General Kinetics Inc	New Haven 9 Conn 3-4-7-12-16 Speak-O-Phone Recording & Equip Co
14707 Keswick St Van Nuys Calif	5	555 23 St S Arlington 2 Va 7	23 W 60 St New York 23 NY 4-7
74—RECORDERS, AUDIO		Gordon Enterprises	Stancil-Hoffman Corp
THE RECORDERS, AUDIO		5362 N Cahuenga Blvd N Hollywood Calif 10 Gotham Audio Development Corp	921 N Highland Ave Hollywood 38 Calif 2-6-7-9-11-12-13-14-15-16
Duplicators, magnetic tape	•	2 W 46 St New York 36 NY 4	Symphonic Radio & Electronic Corp
Recorders, bingural tape	1	Graflex Inc	235 Jersey Ave New Brunswick NJ 7
Recorders distation	2	154 Clarissa St Rochester 8 NY 7-9	Talking Devices Co 4447 Irving Park Rd Chicago 41 III 4-12
Recorders, dictation	3	Gulton Industries Inc 212 Durham Ave Metuchen NJ 9	Technical Electronics Corp
Recorders manually dis-	4	Gyro Electronics Co	4060 Ince Blvd Culver City Calif 7
Recorders, magnetic disc	5	325 Canal St New York 13 NY 7	Techtron Electronics Ltd 583 Gramatan Ave Mt Vernon NY 7
Recorders, magnetic film stripe.	6	Hickok Electrical Instrument Co	Telectro Industries Corp
Recorders, magnetic tape	/	10514 Dupont Ave Cleveland 8 Ohio 11-12 Infra Electronic Corp	35-18 37 St
Recorders, magnetic wire	8	47 Factory Pl	Long Island City 1 NY 2-3-5-7-8-9-12-16 Texas Instruments Inc
Recorders, miniature tape/wire.	9	Cedar Grove NJ 3-4-5-9-11-16	6000 Lemmon Ave Dallas 9 Texas 5
Recorders, photographic film		International Radio & Electronics Corp R 4 Box 123 Elkhart Ind 7	Texas Instruments Inc Industrial
saund track	10	International Scientific Industries	Instrumentation Div
Recarders, partable	11	Corp 23.4 E Hiway 24	3609 Buffalo Speedway Houston 6 Texas 5 TV Specialty Co
Recarders, sound	12	Colorado Springs Colo 7	350 W 31 St New York 1 NY 10
Recorders, studio	13	I Q Industries 1714 Westwood Blvd Los Angeles 24 Calif 7	Van Eps Lab R D 2 Plainfield NJ
Recorders, synchronized film-		James Instrument Lab	Viking of Minn
tape	14	9110 S 52 Ct Oak Lawn III 7-13	9600 Aldrich Ave S Minneapolis 20 Minn 2-7
Recorders, tape loop	15	Kinevox-Hallen Div Electromation Co 1646 18 St	V-M Corp 4 & Park Sts Benton Harbor Mich 2-7
Recorders, telephone	16	Santa Monica Calif 6-7-11-12-14	Warren Corp J C
Addressograph-Multigraph Corp		Magnasync Mfg Co	21 Hanse Ave Freeport NY 7-11-12-15-16
1200 Babbitt Rd Cleveland 17 Ohio	7	5546 Satsuma Ave N Hollywood Calif 6-12-13-14	Warwick Mfg Corp 7300 N Lehigh Ave Chicago 31 III 2-7
Affton Industries 406 St Louis Ave		Magnecord Div Midwestern Instruments Inc	Webcor Inc
Valley Park Mo 2-3-4-5-6-7-8-9-10-	12_15	1101 S Kilbourn Ave	5626 Bloomingdale Ave Chicago 39 III 7
Allied Radio Corp	12-10	Chicago 24 Ill 2-7-11-15-16 Magnetic Recording Industries	webster Electric Co
100 N Western Ave Chicago 80 III	7-11	11 E 16 St New York 3 NY 2-3-5-7-12-16	1900 Clark St Racine Wis West Coast Research Corp
Allied Recording Products Co 32-32 Greenpoint Ave		Majestic Int'l Corp	2371 ½ Westwood Blvd
Long Island City 1 NY	4	79 Washington St Brooklyn 1 NY 7-11 Maurer Inc J A	Los Angeles 64 Calif 7
American Elite Inc		37-01 31 St Long Island City 1 NY 10-12	Westrex Corp 111 8 Ave New York 11 NY 4-7-10-12-13-14-15
7 Park Ave New York 16 NY Ampex Corp	7	Metzner Eng'g Corp	Wide Range Recording Corp
934 Charter St		1041 N Sycamore Ave	527 N Grand Blvd
Redwood City Calif 1-2-7-9-11-12-13-	15-16	Hollywood 38 Calif Michigan Electronics Inc	St Louis 3 Mo 6-7-10-11-12-13-14-15 Wilcox-Gay Corp
Ampliner Corp of America		854 N Rockwell St	Charlotte Mich 7
398 Broadway New York 13 NY Audio-Master Corp	7-15	Chicago 22 Ill 3-7-9-11-15	NE BEOORDERS OFFICE
17 E 45 St New York 17 NV	7	Midwestern Instruments P O Box 7186 Tulsa Okla	75—RECORDERS—SPECIAL
Aurex Corp		Miles Reproducer Co	PURPOSE
1117 N Franklin St Chicago 10 III Autonetics Div North American Aviation	9-15	812 Broadway	
9150 E Imperial Hwy Downey Calif	7	New York 3 NY Mincom Div Minn Mining & Mfg Co	Recorders, antenna pattern 1
Deam Industries Inc		2049 S Barrington Ave	Recarders, code 2
624 S Michigan Chicago 5 Ill Bell & Howell	7	Los Angeles Calif Minneapolis-Honeywell Regulator Co	Recorders, data 3
7100 McCormick Rd Chicago 45 III	7	Davies Labs Div	Recorders, facsimile 4
Dell Sound Systems Inc		10721 Hanna St Reltsville Md 7 15	Recorders, film 5
555 Marion Rd Columbus 7 Ohio 4 Berndt-Bach Inc Auricon Div	-7-11	Mohawk Business Machines Corp 944 Halsey St	Recorders, film thickness 6
6900 Romaine St		Brooklyn 33 NY 2-3-7-9-11-12-13-15 16	Recorders, frequency 7
Hollywood 38 Calif	10-14	Monroe Calculating Machine Co	Recorders, material thickness,
P O Pour 140 P		Electronics Div Morris Plains NJ 5 Nemeth Inc	electronic 8
Drush Electronics Co	11-12	2223 S Carmelina Ave	Recorders, oscillograph 9
3405 Perkins Ave Claudland 14 Obi-	12	Los Angeles 64 Calif 7-15	Recorders, ph 10
Drugh Electronics Co Tayor Dia		Newcomb Audio Products Co 6824 Lexington Ave	Recorders, polar 11
3732 Westheimer Rd Houston 6 Texas Burroughs Corp	7	Los Angeles 38 Calif	Recorders, portable 12
6071 2 Ave Detroit 22 Misk	-7-15	North American Instruments Inc	Recorders, power level 13
Duss-Clement-Doughton & A		2420 N Lake St Altadena Calif	Recorders, pressure, electronic 14
Camera Equipment Co	12	Olympic Radio & TV 34-01 38 Ave Long Island City 1 NY 7	Recorders, self-balancing 15
315 W 43 St New York ac Mar	7-10	Palmer Inc M V	Recorders, smoke & combustion 16
Century Electronics & Instrument. In-	t-T11	4002 Fruit Valley Rd Vancouver Wash	Recorders, strain 17
1333 N Utica Ave Tulsa 10 Okla Cinematic Developments	7	Pampa Electronics Corp	Recorders, telemetering 18
2125 32 Ave San Francisco 16 Cults		7354 Frankford Ave Philadelphia 36 Pa 6-7 Peirce Dictation Systems	Recorders, teletype 19
Columbia Records Div Columbia	7	5900 N Northwest Hwy	Recorders, temperature 20
Broadcasting System		Chicago 31 Ill 3-7-8-9-12	Recorders, timing 21
799 7 Ave New York NY Consolidated Electrodynames Corp	7	Pentron Corp 777 S Tripp Ave	Recorders, torque 22
300 N Sierra Madre Villa		Chicago 24 Ill 2-5-7-9-11-12-13-14-15-16	Recorders, transient 23
Pasadena Calif	7	Potter Instrument Co	Recorders, vacuum 24
Crescent Industries Inc		115 Cuttermill Rd Great Neck NY 7-15	Recorders, vibration 25
5900 W Touhy Ave Chicago Ill Dictaphone Corp	7	Press Wireless Labs Inc	Recorders, video tape 26
		25 Prospect Pl W Newton Ct M	Accorders, tides lape 20
420 Lexington Ave New York 17 NY 3-7-9-1		25 Prospect Pl W Newton 65 Mass 7 Presto Recording Corp Box 500 Paramus NJ 4-7-11-12-13	Recorders, weight

Acton Laboratories 533 Main St Acton Mass 9	Dallons Labs	Kinney Mfg Div Vacuum Equip Div NY
Advanced Electronics Inc	5066 Santa Monica Blvd Los Angeles 29 Calif 20	Air Brake Co 3529 Washington St Boston 30 Mass 24
94 Silas Deane Hwy Rocky Hill 9 Conn 25 Aero Instrument Co	Defender Instrument & Regulator Co Boody Ill 12-20-24	Larson Instrument Co
11423 Vanowen St N Hollywood Calif 21	Dictaphone Corp	Leeds & Northrup Co
Affton Industries 406 St Louis Ave Valley Park Mo 26	420 Lexington Ave New York 17 NY 12 Du Mont Labs Inc Allen B	4970 Stenton Ave 1-3-7-10-11-13
Airpax Products Co	760 Bloomfield Ave Clifton NJ 3-7-9	Philadelphia 44 Pal 15-16-18-20-28 Leupold & Stevens Instruments Inc
Middle River Baltimore 20 Md 7 Alden Electronic & Impulse Recording	Edin Co 207 Main St Worcester 8 Mass 9-12-14-17-23	4445 N E Glisan St Portland 13 Ore 18
Equip Co	Electro Instruments Inc	Librascope Inc 808 Western Ave Glendale Calif 3-28
P O Box 125 Westboro Mass 4 Aloe Scientific	3794 Rosecrans St San Diego 10 Calif 28 Electronics Corp of America	Lumenite Electronic Co
5655 Kingsbury Blvd St Louis 12 Mo 10-14-20	1 Memorial Dr Cambridge 42 Mass 16	407 S Dearborn St Chicago 5 III 21 Magnaflux Corp
American Instrument Co 8030 Georgia Ave Silver Spring Md 9	Electronic Tube Corp 1200 E Mermaid Lane	7300 W Lawrence Ave Chicago 31 III 8-17
American Machine & Foundry Co Defense Products Group 1101 N Royal St	Philadelphia 18 Pa 9-17	Magnasync Mfg Co 5546 Satsuma Ave N Hollywood Calif 3-5-18
Alexandria Va 1-3-14-18	Engelhardt Eng'g Co 38 Burritt Ave S Norwalk Conn 23	Magnecord Div Midwestern Instruments Inc
Ampex Corp 934 Charter St 3-7-12-18-19-20	Engineering Enterprises Inc 1200 18 St N W Washington 6 DC 3-15	1101 S Kilbourn Ave Chicago 24 Ill 3-12 Magnetic Recording Industries
Redwood City Calif 21-22-23-24-25-26	Ercona Corp	11 E 16 St New York 3 NY 12
Analogue Controls Inc 39 Roselle St Mineola NY 28	551 5 Ave New York 17 NY 3-12	Manning Maxwell & Moore Inc Shelter Rock Lane Danbury Conn 14-20-24
Antlab Inc	Ess Instrument Co 96 S Washington Ave Bergenfield NJ 16	Massa Laboratories Inc
4950 N High St Columbus 14 Ohio 1-11-13-28 Applied Science Corp of Princeton	Esterline-Angus Co P O Box 596 Indianapolis 6 Ind 7-24	5 Fottler Rd Hingham Mass 9 Matthew Labs
P O Box #44 Princeton NJ 18	Fenwal Inc	146 Riverdale Ave Yonkers NY 28
Arkay Co 605 1 Ave SW Rochester Minn 2	Pleasant St Ashland Mass 20 Fielden Instrument Div Robertshaw-	Maurer Inc J A 37-01 31 St Long Island City 1 NY 5
Associated Eng'g & Mfg Corp 210 Stonehouse Rd Glen Ridge NJ 26	Fulton Controls Co 2920 N 4 St	Merz Eng'g Inc
Audio Instrument Co	Philadelphia 33 Pa 8-10-17-20-27 Fischer & Porter Co	200 S Harding St Indianapolis Ind S Michigan Electronics Inc
133 W 14 St New York 11 NY 13 Austin Co Special Devices Div	478 Warminster Rd Hatboro Pa 14-20-21	854 N Rockwell St Chicago 22 III 12
76 9 Ave New York 11 NY 3	Fisher Scientific Co 711 Forbes St Pittsburgh 22 Pa 10	Mid-Century Instrumatic Corp 611 Broadway New York 12 NY 9
Bailey Meter Co 1050 Ivanhoe Rd	Flight Research Inc	Midwestern Instruments
Cleveland 10 Ohio 10-16-18-20-24	P O Box 1-F Richmond 1 Va S Friez Instrument Div Bendix Aviation Corp	P O Box 7186 Tulsa Okla 3-9-18 Miles Reproducer Co
Baldwin-Lima-Hamilton Corp Electronics & Instrumentation Div	1400 Taylor Ave Baltimore 4 Md 20	812 Broadway New York 3 NY 5-12
42 4 Ave Waltham 54 Mass 14-17-22-27	General Controls Co 801 Allen Ave Glendale 1 Calif 20-24	Miller Instruments Inc William 325 N Halstead Ave Pasadona 8 Calif 9
Barber-Colman Co Rock St Rockford III 10-14-15-16-17-20-21-24	General Electric Co Apparatus Sales	Mincom Div Minn Mining & Mfg Co
Barker & Williamson Inc Canal & Beaver Sts Bristol Pa 7-19	Div 1 River Rd Schenectady 5 NY 7-18-28	2049 S Barrington Ave Los Angeles 25 Calif 3-18-26
Barnes Development Co	General Kinetics Inc	Minneapolis-Honeywell Regulator Co Davies Labs Div 10721 Hanna St
213 W Baltimore Pike Lansdowne Pa Barry Controls Inc	555 23 St S Arlington 2 Va 3 General Precision Lab Inc	Beltsville Md 3-12-18
700 Pleasant St Watertown 72 Mass 3	63 Bedford Rd Pleasantville NY 5	Minneapolis-Honeywell Regulator Co Industrial Div Wayne & Windrim Aves
Beckman Instruments Inc Data & Control Systems Scientific Instrument Div	General Radio Co 275 Massachusetts Ave	Philadelphia 44 Pa 3-7-11-15-20-28
325 N Muller Ave Anaheim Calif 3	Cambridge 39 Mass 9	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind 9-12
Beckman & Whitley 973 E San Carlos Ave San Carlos Calif 3-5-12	General Scientific Equipment Co 7516 Limekiln Pike Philadelphia 50 Pa 20	Moeller Instrument Co
Bendix Aviation Corp Pacific Div	Giannini & Co G M	132-02 89 Ave Richmond Hill 18 NY 20 Mohawk Business Machines Corp
11600 Sherman Way N Hollywood Calif 18 Bendix Aviation Corp	918 E Green St Pasadena Calif 3-14-18-20-24	944 Halsey St Brooklyn 33 NY 12
1104 Fisher Bldg Detroit 2 Mich 20	Gilmore Industries Inc	Monroe Calculating Machine Co Electronics Div Morris Plains NJ 3
Benson-Lehner Corp 11930 W Olympic Blvd	5713 Euclid Ave Cleveland 3 Ohio 3-14-16-17-22-27-28	Moseley Co F L
Los Angeles 64 Calif 28 Berndt-Bach Inc Auricon Div	Gordon Enterprises	409 N Fair Oaks Ave Pasadena Calif 25 Muirhead & Co Ltd
6900 Romaine St Hollywood 38 Calif 5-18	5362 N Cahuenga Blvd N Hollywood Calif 3-5-9	Beckenham Kent England 4 Muirhead Instruments Co
Biophysical Instruments Inc 20 Herman St Philadelphia 44 Pa 20	Gorrell & Gorrell	677 5 Ave New York 22 NY 4
B J Electronics Borg-Warner Corp	336 Old Hook Rd Westwood NJ 3-4-21 Grafton Eng'g Co	National Scientific Labs Inc 2010 Massachusetts Ave NW
3300 Newport Ave Santa Ana Calif 3-18 Boehme Inc H O	628 Vernon Rd Springfield Pa 3	Washington 6 DC
915 Broadway New York 10 NY 2-19	Gray Research & Development Co Hilliard St Manchester Conn 4	Niagara Electron Labs Main St Andover NY 27
Bristol Co P O Box 1790 10-13-14-15-16-17	Gulton Industries Inc	Non-Linear Systems Inc
EITT Waterbury 20 Conn 18-20-21-24-28 Broadcast Equipment Specialties Corp	212 Durham Ave Metuchen NJ 14-18-20 Hagan Chemicals & Controls Inc	Del Mar Airport Del Mar Calif 3-15-17-20 North American Instruments Co
P O Box 149 Beacon NY 12	Hagan Bldg	2420 N Lake St Altadena Calif 3-12-14
Brooke Eng'g Co 4517 Wayne Ave Philadelphia 44 Pa 16	Pittsburgh 30 Pa 3-14-15-16-17-18-20-22 Hamilton Watch Co Allied Products Div	Offner Electronics Inc 5320 N Kedzie Ave
Brush Electronics Co Div Cleveite Corp	Columbia Ave Lancaster Pa 9	Chicago 25 Ill 9-14-17-18-22-25 Palmer Inc M V
3405 Perkins Ave Cleveland 14 Ohio 7-9-17-18-20-21-22-23-25	Hanson-Gorrill-Brian 85 Hazel St Glen Cove NY 3	4002 Fruit Valley Rd Vancouver Wash 19
Brush Electronics Co Texas Div	Hastings-Raydist Inc Newcomb Ave Hampton Va 24	Pampa Electronics Corp 7354 Frankford Ave Philadelphia 36 Pa 5
3732 Westheimer Rd Houston 6 Tex 9 Burroughs Corp	Hathaway Instrument Div Hamilton Watch	Panellit Inc
6071 2 Ave Detroit 32 Mich 3-4-9-18 Buss-Clement-Doughten & Associates	Co 5800 E Jewell Ave Denver 22 Colo 3-9-17-25	7401 N Hamlin Ave Skokie III 3 Par Products Corp
201 B Studio Hill Chester Springs Pa 5-12	Hays Corp	602 Colorado Ave S nta Monica Calif 3 Partlow Corp
Calif Technical Industries 1421 Old County Rd Belmont 10 Calif 1	Michigan City Ind 14-20 Heiland Div Minneapolis-Honeywell	2 Campion Rd New Hartford NY 20
Cambridge Instrument Co	5200 E Evans Ave	Pentron Corp 777 S Tripp Ave Chicago 24 III 3-12-18
Grand Central Terminal New York 17 NY 10-25	Denver 22 Colo 3-5-9-17-20-22-23-25 Hickok Electrical Instrument Co	Phoenix Precision Instrument Co
Camera Equipment Co	10514 Dupont Ave Cleveland 8 Ohio 9	3803 N 5 St Philadelphia 40 Pa 16 Photobell Co
Central Electronic Mfrs Inc	Hogan Labs Inc 155 Perry St New York 14 NY 3-4-18	43 Vesey St New York 7 NY 16
Sub Nuclear Corp of America 2 Richwood Pl Denville NJ 8	Hoover Electronics Co	Photron Instrument Co 6516 Detroit Ave Cleveland 2 Ohio 9-14-17-27
Century Electronics Co	3640 Woodland Ave Baltimore 7 Md 3-18	Potter Aeronautical Corp
34 Oleander St Cocoa Fla 18-21 Century Electronics & Instruments Inc	Hull-Standard Corp Abington Pa 24	P O Box 532 Union NJ Potter Instrument Co
1333 N Utica Ave Tulsa 10 Okla 3-9	Impact-O-Graph Corp	115 Cuttermill Rd Great Neck NY 2-3
Chicago Electronic Labs 1222 W Madison St	1900 Euclid Ave Cleveland 15 Ohio 25 Indikon Co	Powers Regulator Co 3400 Oakton St Skokie Ill 20
Chicago 7 Ill 14-17-20-21-23 Cinema-Television Ltd	76 Coolidge Hill Rd	Precision Technology Inc
Worsley Bridge Rd Lower Sydenham	Watertown 72 Mass 14-25 Industrial Electronic Engineers	66 South P St Livermore Calif 5 Press Wireless Labs Inc
London SE 26 England 5-7 Cincinnati Time Recorder Co	3973 Lankershim Blvd	25 Prospect Pl W Newton 65 Mass 4
1733 Central Ave Cincinnati 14 Ohio 21	N Hollywood Calif 3-27 Intelex Systems Inc	Presto Recording Corp Box 500 Paramus NJ 18
Cinematic Developments 2125 32 Ave San Francisco 16 Calif 5	22 Thames St New York 6 NY 19	Producers Sales Corp
Clary Corp 408 Junipero St San Gabriel Calif 3-21-27	International Business Machines Corp 590 Madison Ave New York 23 NY 3-21	2704 W Olive Ave Burbank Calif 3-5 Production Research Corp
Consolidated Electrodynamics Corp	I Q Industries	Thornwood NY 18
300 N Sierra Madre Villa Pasadena Calif 3-9-12-14-17-18-24-25	1714 Westwood Blvd Los Angeles 24 Calif 21	PSC Applied Research Ltd 1500 O'Connor Dr Toronto 16 Canada 23
		<del></del>

Pye Canada Ltd 82 Northline Rd Toronto 16 Ont Canada 10	Paper, facsimile recording 8	Florman & Babb 68 W 45 St New York 36 NY 4-1
Radiation Inc 1' O Box 37 Melbourne Fla 3-18	Pickups, transcription & phono- graph	Fort Wayne Metals Inc
Reeves Instrument Corp 215 E 91 St New York 28 NY 3	Record molding compounds 10	3211 MacArthur Dr Ft Wayne 6 Ind 2 Freed Transformer Co
Rek-O-Kut Co	Record preforms	1718-36 Weirfield St Brooklyn 27 NY Gary Wells Co
38-01 Queens Blvd Long Island City 1 NY 12 Rich Electronics Inc	Reels	361 Rockaway Ave Valley Stream NY General Electric Co Construction
212 NW 8 Ave Miami 36 Fla 1-3-7-13-17-18 Sanborn Co	Stylus, rotary	Materials Div 1285 Boston Ave Bridgeport 2 Conn 1
175 Wyman St Waltham 54 Mass 9 Schaevitz Eng'g Co	Tape magazines, continuous 15	General Electric Co Apparatus Sales Div
P O Box 505 Camden 1 NJ 14	Tape, magnetic	1 River Rd Schenectady 5 NY General Transistor Corp
Scherr Co George 200 Lafayette St New York 12 NY 22	Tape splicers	91-27 138 Place Jamaica 35 NY General Transistor Western Corp
Scientific-Atlanta Inc 2162 Piedmont Rd NE Atlanta 9 Ga 1-11-28	Tape threaders	6110 Venice Blvd Los Angeles 34 Calif
Seismograph Service Corp	Turntables	Goodrich Chemical Co B F 3135 Euclid Ave Cleveland 15 Ohio 1
6200 E 41 St Tulsa 1 Okla 9 Sheffield Corp	Wire, magnetic21	Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio 1
Box 893 Dayton 1 Ohio 21 Simplex Time Recorder Co	Accurate Mfg Co 44 Hepworth Pl Garfield NJ 18	Gorrell & Gorrell 335 Old Hook Rd Westwood NJ
24 S Lincoln St Gardner Mass 21 Skiatron Electronics & TV Corp	Addressograph-Multigraph Corp	Gotham Audio Development Corp
180 Varick St New York 14 NY 2-3-4-5-19 Soroban Eng'g Inc	1200 Babbitt Rd Cleveland 17 Ohio 16 Affton Industries	2 W 46 St New York 36 NY Gray Research & Development Co
Box 338 Melbourne Fla 3-19	406 St Louis Ave Valley Park Mo 12-15-16-17-18-19	Hilliard St Manchester Conn 2 Handy & Harman
Sound Apparatus Co Stirling NJ 1-11-13-25	Alden Electronic & Impulse Recording	82 Fulton St New York 38 NY Hayward Scientific Glass Corp
Southern Instruments Computer Div Frimley Rd Camberley Surrey England 3	Equip Co P O Box 125 Westboro Mass 8	217 N Magnolia Ave Whittier 1 Calif
Southwest Products Inc	Alfax Paper & Eng'g Co Washington St Westboro Mass 8-12	Hogan Labs Inc 155 Perry St New York 14 NY
Alamo Downs Rt 4 San Antonio Texas 27 Stancil-Hoffman Corp	Allied Engraving & Stamping Co	Industrial Accessories Inc Line Rd Matawan NJ
921 N Highland Ave Hollywood 38 Calif 12 Standard Register Co	Allied Radio Corp	International Business Machines Corp 590 Madison Ave New York 23 NY 1
626 Albany St Dayton 1 Ohio 2-3 Stavid Eng'g Inc	100 N Western Ave Chicago 80 Ill 16 Allied Recording Products Co	Jensen Industries Inc
U S Route 22 Plainfield NJ 3-18 Stoelting Co C H	32-32 Greenpoint Ave Long Island City 1 NY 1	7333 Harrison St Forest Park Ill Jodee Plastics Co
424 N Homan Ave Chicago 24 III 11-15	Alpha Metals Inc	213 Shepherd Ave Brooklyn 8 NY Johns-Manville
Stone City Machine & Tool Co 1206 7 St Bedford Ind 2	56 Water St Jersey City 4 NJ 1-11 American Electronics Inc	22 E 49 St New York 16 NY Kendall Co Polyken Sales Div
Stromberg Time Corp 135 S Main St Thomaston Coun 21	655 W Washington Blvd Los Angeles 15 Calif 16	309 W Jackson Blvd Chicago 20 III 13
Systron Corp 2055 Concord Blvd Concord Calif 2-3-7-14-21	American Molded Products Co	Kinevox-Hallen Div Electromation Co 1646 18 St Santa Monica Calif I'
Taller & Cooper	2727 W Chicago Ave Chicago 22 III 12-15 Ampex Corp	Librascope Inc Commercial Div 133 E Santa Anita Ave Burbank Calif
15 Front St Brooklyn 1 NY 16 Telectro Industries Corp	934 Charter St Redwood City Calif 3 Astatic Corp	Lipps Co Edwin A 5485 W Washington Blvd
35-18 37 St Long Island City 1 NY 2-3-26 Texas Instruments Inc	250 Harbor St Conneaut Ohio 6-9	Los Angeles 16 Calif 5-
6000 Lemmon Ave Dallas 9 Texas 9-12 Texas Instruments Inc Industrial	Atlantic & Pacific Wire & Cable Co 112-01 Northern Blvd	Magnasync Mfg Co 5546 Satsuma Ave N Hollywood Calif 11
Instrumentation Div 3609 Buffalo	E Elmhurst LI NY 21 Audio Devices Inc	Magnecessories Box 6960 Washington 20 DC 1
Speedway Houston 6 Texas 9-12-17 Thermo Electric Co	444 Madison Ave New York 22 NY 7-12-16 Audio-Master Corp	Magnecord Div Midwestern Instruments Inc 1101 S Kilbourn Ave Chicago 24 Ill 3-
109 5 St Saddle Brook NJ 20 Times Facsimile Corp	17 E 45 St New York 17 NY 15-16	Marchant Calculators Inc
Times Facsimile Corp 540 W 58 St New York 19 NY 4-21 Toledo Scale Co	Audio-Video Recording Co 730 5 Ave New York 19 NY 15-16-18	Maurer Inc J A
Toledo Scale Co 1027 Telegraph Rd Toledo Ohio 27 Tri-R Instruments	Automatic Methods Inc 965 W Grand St Elizabeth NJ 13	37-01 31 St Long Island City 1 NY 1' Metzner Eng'g Corp
24-15 44 Rd Long Island City 1 NY 20	Barker Sales Co	1041 N Sycamore Ave Hollywood 38 Calif S Midwestern Instruments
TV Specialty Co 350 W 31 St New York 1 NY 3-5-12	Boston Woven Hose & Rubber Co	P O Box 7186 Tulsa Okla 10 Miller Electronics
Underwood Corp Electronic Computer Div 35-10 36 Ave Long Island City 6 NY 3	P O Box 1071 Boston 3 Mass 18 Briggs Associates	2840 Naomi St Burbank Calif 12-1
U S Instrument Corp P O Box 33E Charlottesville Va 19	10 DeKalb St Norristown Pa 4 Brush Electronics Co	Miller Mfg Co M A 4 & Church Sts Libertyville Ill
U S Taximeter Corp	3405 Perkins Ave Cleveland 14 Ohio 5-6 Burroughs Corp	Minneapolis-Honeywell Regulator Co Davies Labs Div 10721 Hanna St
516 W 54 St New York 19 NY 3-12 Varian Associates	6071 2 Ave Detroit 32 Mich 4	Beltsville Md Minnesota Mining & Mfg Co
611 Hansen Way Palo Alto Calif 15 Victor Adding Machine Co	Buss-Clement-Doughten & Associates 201 B Studio Hill Chester Springs Pa 3	900 Fauquier Ave St Paul 6 Minn 12-16-18
3900 N Rockwell St Chicago 18 Ill 3 Vought Co	Caltron Products Co 3518 W Pico Blvd Los Angeles 19 Calif 1	Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY
P O Box 1350 Beverly Hills Calif 5	Capitol Transcription Service	Monsanto Chemical Co 1700 S 2 St St Louis 4 Mo
Waltham Watch Co 221 Crescent St Waltham 54 Mass 21	1120-A Conn Ave N W Washington 6 DC 3 Capps & Co	Muirhead & Co Ltd Beckenham Kent England
Warren Corp J C 21 Hanse Ave Freeport NY 12-18	Addison Pl Valley Stream LI NY 7 Chase & Sons	Muirhead Instruments Inc 677 5 Ave New York 22 NY
Weksler Thermometer Corp	26 Spruce St N Quincy Mass 18 Daven Co	Nader Mfg Co
195 E Merrick Rd Freeport LI NY 20-24 West Coast Research Corp	Route 10 Livingston NJ 3	2661 S Myrtle Ave Monrovia Calif National Cine Equipment Inc
2371½ Westwood Blvd Los Angeles 64 Calif 20	Dunlap Electronics 764 9 St Des Moines 14 Iowa 3	209 W 48 St New York 36 NY Navco Navigation Computer Corp
Westinghouse Electric Corp P O Box 868 Pittsburgh 30 Pa 7-12-18	Dunton Co M W 7 Goff St Providence RI 18	1621 Snyder Ave Philadelphia 45 Pa Nemeth Inc
West Instrument Corp	Duotone Co	2223 S Carmelina Ave
4363 N Montrose Ave Chicago 41 Ill 15-20 Weston Electrical Instrument Corp	Durant Mfg Co	Neumade Products Corp
Sub Daystrom Inc 614 Frelinghuysen Ave Newark 12 NJ 14-20-21-24	1950 N Buffum St Milwaukee 1 Wis Dynamu Magnetronics Corp Div Maico Co	250 W 57 St New York 19 NY 17-18 New Jersey Wood Finishing Co
Westrex Corp	21 N 3 St Minneapolis 1 Minn 6 Edison Industries Thomas A	Amboy Ave Woodbridge NJ 18 Norton Associates Inc
Westronics Inc	Instrument Div 93 Lakeside Ave	P O Box 96 Garden City NY
3605 McCart Ft Worth Tex 15-20 Wide Range Recording Corp	W Orange NJ Electrical Specialty Co	Okonite Co 220 Passaic St Passaic NJ 280 Passaic St Passaic NJ
527 N Grand Blvd St Louis 3 Mo 5-12	158 11 St San Francisco 3 Calif 18 Electrovox Co	ORRadio Industries Inc Shamrock Circle Opelika Ala 12-16
76—RECORDING	60 Franklin St E Orange NJ 7 Emmett Machine & Mfg	Pacific 'Transducer Corp 11836 W Pico Blvd Los Angeles 64 Calif
ACCESSORIES	445 E Turkeyfoot Lake Rd Akron 19 Ohio 4	Pampa Electronics Corp
Discs, blank 1	Elgin National Watch Co Electronics Div 2435 N Naomi St Burbank Calif 9	7354 Frankford Ave Philadelphia 36 Pa 9 Pantek Co
Drivers 2	Elgin National Watch Co 107 National St Elgin Ill 9	P O Box 212 El Segundo Calif 4
Equalizers	Ercona Corp	Par Products Corp 602 Colorado Ave Santa Monica Calif 4
Footage counters 4 Heads, cutting 5	551 5 Ave New York 17 NY 5-9-17 Erie Resistor Corp	Penn Fibre & Specialty Co 2020 E Westmoreland St
Heads, recording 6	644 W 12 St Erie 6 Pa 9 Fairchild Recording Equipment Co	Philadelphia 34 Pa 1 Pentron Corp
Needles, cutting 7	10-40 45 Ave Long Island City 1 NY 3-5-9-20	777 S Tripp Ave Chicago 24 Ill 15-16

Permacel Tape Corp		77—RECTIFIERS	Hughes Aircraft Co Semiconductor Div Int'l Airport Station
U S Hwy 1 New Brunswick NJ	18		Los Angeles 45 Calif
Permo Inc 6415 N Ravenswood Ave		Battery eliminatars 1 Inverters 2	Hughes Products Hughes Aircraft Co 5340 W 104 St Int'l Airport Sta
Chicago 26 Ill Permonite Mfg Co	7-16-21	Rectifier pawer units	Los Angeles 45 Calif
444 Lake Shore Dr Chicago 11 III Photocircuits Corp	1	Rectifiers, capper axide 4	22 Thames St New York 6 NY
31 Sea Cliff Ave Glen Cove NY	1	Rectifiers, electronic tube 5	International Rectifier Corp 1521 E Grand Ave
Pickering & Co 309 Woods Ave Oceanside NY	9	Rectifiers, germanium	El Segundo Calif International Resistance Co
Presto Recording Corp Box 500 Paramus NJ	-5-7-20	Rectifiers, metal axide 8	401 N Broad St Philadelphia 8 Pa 11
Prestoseal Mfg Corp 37-27 33 St Long Island City 1 NY	17	Rectifiers, metal sulphide Y	Kepco Labs 131-38 Sanford Ave Flushing NY 2-3
Printloid Corp		Rectifiers, metallic stack 10 Rectifiers, selenium 11	Knopp Inc 4224 Holden St Oukland 8 Calif 3
93 Mercer St New York 12 NY Production Instrument Co	1	Rectifiers, silican 12	Lawn Electronics Co E Freehold Rd Freehold NJ
710 W Jackson Blvd Chicago 6 III Pulse Techniques Inc	4	Rectifiers, titanium	Lee Electric & Mfg Co
1411 Palisade Ave W Englewood NJ Pyramid Screen Corp	3	Accurate Engig Co	2806 Clearwater St. Los Angeles 39 Calif 3-10-11
181 Harvard St Brookline 46 Boston M	1:iss 1	2005 Blue Island Ave Chicago 8 Ill 3-5-6-10-11	Lewis & Kaufman Lifd Div of Int'l Glass Corp P O Box 337 Los Gatos Calif
Radio Corp of America Commercial Electronic Products Camden 2 NJ	9-16	Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 2	Lysco Mfg Co 1401 Clinton St Hoboken NJ
Rangertone Inc 73 Winthrop St Newark 4 NJ	16	t la con Floatronice Co	Macarr Inc
Rea Magnet Wire Co E Pontiac St Ft Wayne Ind	12	8510 North End Ave Oak Park 37 Mich 8 American Elite Inc	2543 Boston Rd New York 67 NY 3-6-11-12 Magnetic Research Corp
Recordisc Corp 33-01 Far Rockaway Blvd		7 Park Ave New York 16 NY	3160 W El Segundo Blvd Hawthorne Calif 3 Mallory & Co Inc P R
Edgemere 91 NY	1 - 7	3030 Nebraska Ave Santa Monica Cam 2	42 S Gray St Indianapolis 6 Ind
Recoton Corp 52-35 Barnett Ave		American Rectifier Corp 95 Lafayette St New York 13 NY 6-11-12	Melco Products Inc. 301 5 Ave S Minneapolis 15 Minn 3
Long Island City 4 NY Reeves Soundcraft Corp	7-16	American Television & Radio Co 300 E 4 St St Paul 1 Minn 1-2-3	Mercury Electronic Co Box 450 B Red Bank NJ
10 E 52 St New York 22 NY Reiter Co F	1-15-16	Bell Aircraft Corp P O Box 1 Buffalo 5 NY 3	Microwave Associates Inc Burlington Mass
3340 Bonnie Hill Dr Hollywood 28 Ca	lif 17	Randiy Aviation Corp	Miller Co Sanford 691 Bedford Ave Brooklyn 6 NY 3-11-12
Rek-O-Kut Co 38-01 Queens Blvd		Bendix Aviation Corp Red Bank Div	Model Rectifier Corp
Long Island City 1 NY Reliance Mica Co	9-20	Semiconductor Dept 201 Westwood Ave Long Branch NJ 12	Moloney Electric Co
341-39 St Brooklyn 32 NY Robins Industries Corp	1	Berkshire Labs 586 Bank Village Greenville NH 11	5390 Bircher Blvd St Louis 20 Mo 3-11-12 Motoresearch Co
214-26 41 Ave Bayside 61 NY 1	7-18-19	Bogne Electric Mfg Co	1600 Junction Ave Racine Wisc National Aircraft Corp Electronics Div
Rolab Studios Walnut Tree Hill Sandy Hook Conn	.\$	Iowa Ave Paterson 3 NJ 2-3-8-10-11-12 Bradley Labs Inc	3411 Tulare Ave Burbank Calif 3-6-12
Ronette Acoustical Corp 190 Earle Ave Lynbrook NY	9	168 Columbus Ave New Haven Conn 3-4-8-10-11	N J E Corp 345 Carnegie Ave Kenilworth NJ 3
St Cecilia Co 125 Bergenline Ave Westwood NJ	16	Central Electronic Mfrs Inc	Norma Hoffman Bearings Corp Walker Div Hamilton Ave
Shure Bros 222 Hartrey Ave Evanston III	6-9	Sub Nuclear Corp of America 2 Richwood Pl Denville NJ 5	Stamford Conn 1-3-5-6-7-8-10-11-12-13 Pacific Semiconductors Inc
Simonds Saw & Steel Co	1	Chatham Electronics Div Gera Corp W M1 Pleasant Ave Livingston NJ 10-11-12	10451 W Jefferson Bive
470 Main St Fitchburg Mass Soroban Eng'g Inc		Clark Electronic Labs Box 165	Culver City Calif Perma-Power Co
Box 338 Melbourne Fla SoundScriber Corp	8-12	Palm Springs Calif 3-5-6-7-10-11-12	3102 N Elston Ave Chicago 18 III Peschel Electronics Inc
146 Munson St New Haven 9 Conn Stancil-Hoffman Corp	1	Conant Labs 6500 O St Lincoln 5 Nebr 4-11	12 Garden St New Rochelle NY Phileo Corp Accessory Div
921 N Highland Ave Hollywood 38 Ca Standard Record Mfg Co	alif 3-6	Conn Telephone & Electric Corp 70 Brittania St Meriden Conn 1	A' & Allegheny Ave Philadelphia 34 Pa
70 N San Gabriel Blvd Pasadena 8 Calif	12-17	Continental Electric Co Taylor Tubes Inc 6 N Michigan Ave Chicago 2 Ill 5-7	Power Supplies Inc 1005 Olive St Hightand III
Standard Tool & Mfg Co	20	Dressen-Barnes Corp 250 Vinedo Ave Pasadena Calif 3	Power Transformer Co 91 Edison Pl
237 Laurel Ave Kearny NJ Stevens Mfg Co Geo		Dresser Electric Co	Newark 5 NJ Pyramid Electric Co
6022 N Rogers Ave Chicago 30 Ill Steward Mfg Co D M	4	Dynamics Research Associates Div -	1445 Hudson Blvd N Bergen NJ
Chattanooga Tenn Stone City Machine & Tool Co	6	Universal Match Corp P O Box 5841 Ferguson 21 Mo 2	Radio Corp of America 415 S 5 St Harrison NJ 5-11
1206 7 St Bedford Ind Systron Corp	1	Eitel-McCullough Inc 798 San Mateo Ave San Bruno Calif 5	Radio Eng's Products Ltd 1080 University St
2055 Concord Blvd Concord Calif Talking Devices Co	4	Electric Regulator Corp	Montreal 3 Quebec Canada Radio Receptor Co
4447 Irving Park Rd Chicago 41 Ill	5-6-9	Electronic Communication Equipment Co	240 Wythe Ave Brooklyn 11 NY 11 Rapid Electric Co
Taller & Cooper 75 Front St Brooklyn 1 NY	4	1249 W Loyola Ave Chicago 26 III 8 Electronic Devices Inc	2881 Middletown Rd Bronx 61 NY 3-6-11-12
Tayloreel Corp 185 Murray St Rochester 6 NY	12	429 12 St Brooklyn 15 NY 3-10-11 Electronic Rectifiers Inc	Raytheon Mfg Co Receiving & Cathode Ray Tube Operations
Techalloy Co Rahns Pa	21	2102 Spann Ave Indianapolis 3 Ind 3-9-11 Electronic Research Associates	55 Chapel St Newton 58 Mass 5-0-12 Raytheon Mfg Co Commercial Equip Div
Techtron Electronics Ltd 583 Gramstan Ave Mt Vernon NY	3-16-20	67 E Centre St Nutley 10 NJ 2	100 River St Waltham 54 Mass Rectico Inc
Telectro Industries Corp 35-18 37 St Long Island City 1 NY	3-6	Electronic Specialty Co 5121 San Fernando Rd	963 Frelinghuysen Ave Newark 12 NJ 10-11-12
Tetrad Co		Los Angeles 39 Calif 2 Electrons Inc	Destifor Corp
62 St Mary St Yonkers NY Thorens Co	7	127 Sussex Ave Newark 3 NJ 5 Electrosolids Corp	Rectifier Eng'g Co
Thorens Ave New Hyde Park NY Times Facsimile Corp	20	7436 Varna Ave N Hollywood Calif 3	RS Electronics Corp
540 W 58 St New York 19 NY	8	Fansteel Metallurgical Corp 2200 Sheridan Rd N Chicago III 3-10-11	435 Portage Ave Palo Alto Calif
Topp Industries Inc 5255 W 102 St Los Angeles 45 Calif	13	Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ 11-12	4501 Alpine Ave Ros moyne Ohio 1-3-4-7-8-10
Tricon Mfg Co 8012 Wallace St Chicago 20 III	1	Gates Electronic Co 2090 Barnes Ave Bronx 62 NY 3-10-11	45 W 81 St New York 24 NY 2-3-4-5-10-11
Underwood Corp Electronic Computer J 35-10 36 Ave Long Island City 6 N		General Electric Co Apparatus Sales Div	Sel-Rex Corp 155 Manchester Pl Newark 4 NJ 3-4-6-10-11-12
U S Rubber Co	18	1 River Rd Schenectady 5 NY 3-4-5-10-11 General Electric Co Ltd of England	Shundar Co F W
1230 6 Ave New York 20 NY U S Taximeter Corp		80 Shore Rd Port Washington NY 6-11-12 General Nuclear Corp	11623 S Broadway Los Angeles 61 Calli Smith-Meeker Eng'g Co
516 W 54 St New York 19 NY Utica Drop Forge & Tool Div Kelsey-H	ayes	550 5 Ave New York 32 NY 3-4-6-8-9-10-11-12-13	157 Chambers St New York 7 NY 3-11 Spaulding Fibre Co
Co 2415 Whitesboro St Utica 4 NY Veeder Root Inc	13	Hallamore Electronics Co	310 Wheeler St Tonawanda NY Syntron Co
70 Sargent St Hartford 2 Conn	4	Heath Co	263 Lexington Ave Homer City Pa
Wenzel Projector Co 2505 S State St Chicago 16 III	12	305 Territorial Rd Benton Harbor Mich 1 Hewson Co	Stewart Warner Electronics Div 1300 N Kostner Ave Chicago 51 III
Westrex Corp 111 8 Ave New York 11 NY	3	443 Broad St Newark 2 NJ 3-5 Hobart Bros	Strong Electric Corp 87 City Park Ave Toledo 1 Ohio
Wide Range Recording Corp 527 N Grand Blvd St Louis 3 Mo	6-16	Hobart Square E Troy 3 Ohio 3 Hoffman Semiconductor Div Hoffman	Sylvania Electric Products Inc 1740 Broadway New York 19 NY 5-6-12
Wrought Washer Mfg Co		Electronics Corp 930 Pitner Ave	Tarc Electronics Inc
2275 S Bay St Milwaukee 7 Wis	I	Evanston III 12	48 Urban Ave Westbury LI NY
			220

Tarzian Inc Sarkes	Amonton Instrument Co	D. L. G. D. D. L. Witter G.
E Hillside Drive Blomington Ind 11-12	American Instrument Co 8030 Georgia Ave Silver Spring Md 8	Dalmotor Co Div Dalmo Victor Co Div Textron Inc 1375 Clay St
Telechrome Mfg Corp	Amperite Co	Santa Clara Calif 40
28 Ranick Dr Amityville LI NY 3 Telkor Inc	561 Broadway New York 12 NY 31	Deitz Co S I
N Murray Ridge Rd Elvria Ohio 1-2-3	Anderson Controls Inc 2777 Mannheim Rd Des Plaines II 40	9 E Wesley St S Hackensack NJ 8 Deltronic Corp
Texas Instruments Inc	Anton Electronic Labs	1507 Riverside Dr Los Angeles 31 Calif 28
6000 Lemmon Ave Dallas 9 Texas 2-12 Thermosen Inc	1226 Flushing Ave	Deltron Inc
361 W Main St Stamford Conn 5-12	Brooklyn 6 NY 6-8-20-30 Arrow-Hart & Hegeman Electric Co	2905 N Leithgow St Philadelphia 33 Pa 8-19 Devtronics Inc
TKM Electric Corp	103 Hawthorne St	1995 Spruce St Trenton 8 NJ 8
1160 University Ave Rochester 7 NY 2 Transitron Electronic Corp	Hartford 3 Conn 4-14-18-23-30-33	Dittmore-Freimuth Corp
168 Albion St Wakefield Mass 6-19	Artisan Electronics Corp	2517 E Norwich St Milwaukee 7 Wisc 40 Dormeyer Industries
Union Switch & Signal	171 Ridgedale Ave Morristown NJ 10-11-23-33-40	3418 Milwaukee Ave Chicago 41 Ill 40
Div Westinghouse Air Brake Co Braddock Ave Pittsburgh 18 Pa 4-8-11	Assembly Products Inc	Dow-Key Co
Universal Atomics Corp	Wilson Mills Rd	P O Box 57 Warren Minn 3-23-39
50 Bond St Westbury LI NY 1	Chesterland 1 Ohio 6-7-10-16-18-19-22-23-24 Audiomation Labs	Dudek & Co R C 407 N Maple Dr Bever's Hills Calif 20
U S Dynamics Corp 1250 Columbus Ave	7230 Clinton Rd Upper Darby 14 Pa 1	Eastman Pacific Co
Boston 20 Mass 1-3-5-6-10-13	Automatic Electric Co 7-8-10-12-13-14-15	2320 E 8 St Los Angeles 21 Calif 4-10-12-28 Ebert Electronics Corp
U S Instrument Corp	1033 W Van Buren St 19-21-22-25-26-27	212-26 Jamaica Ave
P O Box 33E Charlottesville Va 1-3 Vacuum Tube Products Co	Chicago 7 Ill 28-29-32-33-36-38-39 Automatic Metal Products Corp	Queens Village 28 NY 8-10-14-15-23-33
506 S Cleveland St Oceanside Calif 5	323 Berry St Brooklyn 11 NY 3	Edison Industries Thomas A Instrument Div
Wallson Associates Ltd	Automatic Switch Co	93 Lakeside Ave W Orange NJ 6-10-16-22-30-31-33
963 Frelinghuysen Ave Newark 12 NJ 3 Weltronic Co	Hanover Rd Florham Park NJ 7-8-11-18-19-23-33-36-40	Electrical Communications Inc
19500 W 8 Mile Rd Detroit 19 Mich 5	Autotron Inc	765 Clementina St
Westinghouse Electric Corp	3629 N Vermilion St Danville III 20	San Francisco 3 Calif 26-27-29 Electric Regulator Corp
P O Box 868 Pittsburgh 30 Pa 3-4-6-10-11-12 Workman TV Inc	Avionics Ltd	Pearl St Norwalk Conn 17-19
309 Queen Anne Rd Teaneck NJ 5	P O Box 200 3-4-11-14-20 Niagara-on-the-Lake Ont Canada 21-24-26-29	Electro-Mechanical Specialties Co
	Avtron Mig Inc	1016 N Highland Ave 5-8-9-10-11-18 Los Angeles 38 Calif 19-23-28-33-36
78—RELAYS	10409 Meech Ave Cleveland 5 Ohio 40	Electronic Control Corp
Bulliana III	Babcock Relays Inc 14743 Lull St Van Nuys Calif 7-10-14-22-28	1573 E Forest Ave Detroit 7 Mich 8-18-20-33
Relays, audio operated 1	Barber-Colman Co	Electronic Specialty Co 5121 San Fernando Rd 4-6-7-8-9-10-14-17-18
Relays, capacitance 2	Rock St Rockford III 22	Los Angeles 39 Calif 19-23-24-26-28-33-35-36
Relays, coaxial 3	Barton Electronics Inc 1000 Farmington Ave	Electro-Physics Co
Relays, contact 4	W Hartford 7 Conn 8-18	287 Broadway New York 7 NY 8-20 Electro-Switch & Controls Inc
Relays, crossbar 5	Bell & Gossett Co	5755 Camille Ave
Relays, d'arsonval 6	8200 Austin Ave Morton Grove III 8-9-34-38	Culver City Calif 10-14-29-33 Electro Tec Corp
Relays, differential 7	Belltron Mfg Co 400 Hoover Ave	4 Romanelli Ave S Hackensack NJ 10
Relays, electronic 8	Bloomfield NJ 10-19-28-30.22	Elfa Instrument Center
Relays, frequency selective 9	Bennett Co R P 1-3-4-5-7-8-10-11-12	55 Reade St New York 7 NY 30 Elgin National Watch Co
Relays, hermetically sealed 10	43 S Carroll St 13-14-18-19-21-23-24 Frederick Md 26-27-29-32-33-34-36-30	Electronics Div 3-8-10-11-13-14-17
Relays, high voltage 11	Berkshire Labs	2435 N Naomi St 18-19-23-24-26-27-28-29
Relays, impulse	586 Bank Village Greenville NH 1-8	Burbank Calif 30-31-32-33-34-35-36-39 Elgin National Watch Co 3-4-8-10-11-12
Relays, keying	Biddle Co James ()	107 National St 13-14-15-18-19-22-23-24
Relays, latching	Black & Webster Inc	Elgin III 25-27-28-29-33-35-36
Relays, mercury 15	445 Watertown St Newton 58 Man-	Engelhardt Eng'g Co 38 Burritt Ave S Norwalk Conn 8
Relays, meter	9.25 Allies CA N	Essex Wire Corp
Relays, overfrequency 17	9-25 Alling St Newark 2 NJ 30-33 Branson Corp	1601 Wall St Ft Wayne 6 Ind 4-5-8-10-18-29
Relays, overload 18	S Jefferson Rd	Farnsworth Electronics C. Div IT&T 3702 E Pontiac St Ft Wayne Ind 10
Relays, overvoltage 19	Whippany NJ 10-22-23-28-29-30-33 Bristol Co	Federal Telephone & Radio Co Div IT&T
Relays, photoelectric 20	P O Box 1790 EITT	100 Kingsland Rd Clifton NJ 12-25-28-29-33
Relays, plate circuit 21	Waterbury 20 Conn	Filtors Inc 30 Sagamore Hill Dr 8-10-12-14-18-19
Relays, polarized 22	British Electronic Sales Box 132	Port Washington NY 21-22-23-25-28-36
Relays, power 23	Oakland Cardon CA NIX	Fisher Eng'g Inc
Relays, R-F 24	Drubaker Electronics Inc	P O Box 327 Huntington Ind 27 Fisher Scientific Co
Relays, rotary 25	3052 Eastham Dr Culver City Calls 10.00	711 Forbes St Pittsburgh 22 Pa 8
Relays, sequence 26	B/W Controller Corp 2200 E Maple Birmingham Mich 40	Five Star Co W Main St Plantsville Conn 4-5-10-23-40
Relays, stepping 27	Caule Electric Products	General Automatic Corp
Relays, subminiature 28	234 Daboll St	12 Carlton Ave
Relays, telephone	Providence 7 RI Caltron Products Co	Mountain View NJ 7-8-10-14-21-25-28-29 General Communication Co
Relays, thermal	3518 W Pico Blvd	677 Beacon St Boston 15 Mass 3
Relays, thermostatic delay 31	Los Angeles 19 Colif	General Controls Co
Relays, three position 32	Cannon Electric Co	801 Allen Ave Glendale 1 Calif 4-40 General Electric Co Apparatus Sales Div
Relays, time-delay	3208 Humboldt St Los Angeles 31 Calif 40 CG Electronics Corp	1 River Rd
Relays, tuned audio 34	305 Dallas St	Schenectady 5 NY 14-18-19-20-26-28-33-36-40 General Electric Co Ltd of England
Relays, underfrequency 35	N E Albuquerque New Mex 34-38 Clare & Co C P	c/o IMTRA Corp 58 Charles St
Relays, undervoltage 36 Relays, vacuum contact 37	3101 Pratt Blvd 10 12 14 15 91 99 99	Cambridge 41 Mass 14-25-27-29
	Chicago 45 III	Globe Electrical Mfg Co 1729 W 134 St 8-11-13-18-19-21-23
Relays, vibrating reed type 38 Relays, video switching 39	Clark Controller Co 1146 E 152 St	Gardena Calif 25-28-29-32-33-36
	Cleveland 10 Object 18 14 18 10 ac ac ac	Globe Industries Inc
Solenoids 40	Coll Company of Amoria-	1784 Stanley Ave Dayton 4 Ohio 33 Goat Co Fred
Abrams Instrument Corp	207 Washington St Northvale NJ 40 Comar Electric Co	314 Dean St Brooklyn 17 NY 29
606 E Shiawassee St Lansing 1 Mich 33 Adams & Westlake Co	3349 Addison St	Gordos Corp
1025 N Michigan Elkhart Ind 15-33	Chiange 10 TV	Guardian Electric Mfg Co
Ace Electronics Associates		1621 W Walnut St 4-8-10-12-13-14-18-19-21
99 Dover St Somerville 44 Mass 28 Advanced Electronics Inc	Control Specialty Corp. 22 NY 3-33	Chicago 12 Ill 25-26-27-28-29-32-33-36-40 G-V Controls Inc
94 Silas Deans Hwy Rocky Hill 9 Conn 1-8		G- V Controls The
A'G'A Div Elastic Stop Nut Corp	Cook File A Floring Houston 5 Texas 10	45 Hollywood Plaza
1027 Newark Ave Elizabeth 3 NJ 33	Cook Electric Co 3-4-7-10-11-13-14-16	E Orange NJ 10-17-18-19-30-33-35-36
	Cook Electric Co 3-4-7-10-11-13-14-16 2700 Southport Ave Chicago 14 III	E Orange NJ 10-17-18-19-30-33-35-36 Gyro Electronics Co
Airmec Ltd High Wycombe Buckinghamshire England 33	13   15   15   15   15   15   15   15	E Orange NJ 10-17-18-19-30-33-35-36 Gyro Electronics Co 325 Canal St New York 13 NY 8
Airmec Ltd High Wycombe Buckinghamshire England 33 Airpax Products Co	Cook Electric Co 2700 Southport Ave Chicago 14 III Corona Eng's Service 94-52 Corona Ave	E Orange NJ 10-17-18-19-30-33-35-36 Gyro Electronics Co 325 Canal St New York 13 NY 8 Hartman Electrical Mfg Co 175 N Diamond St 4-9-10-14-17-18-19
Airmec Ltd High Wycombe Buckinghamshire England 33 Airpax Products Co Middle River Baltimore 20 Md 18	13   15   15   15   15   15   15   15	E Orange NJ 10-17-18-19-30-33-35-36  Gyro Electronics Co 325 Canal St New York 13 NY 8  Hartman Electrical Mfg Co 175 N Diamond St 4-9-10-14-17-18-19  Mansfield Ohio 22-23-26-33-35-36
Airmec Ltd High Wycombe Buckinghamshire England Airpax Products Co Middle River Baltimore 20 Md Allard Instrument Corp	Texas   10	E Orange NJ 10-17-18-19-30-33-35-36  Gyro Electronics Co 325 Canal St New York 13 NY 8  Hartman Electrical Mfg Co 175 N Diamond St 4-9-10-14-17-18-19  Mansfield Ohio 22-23-26-33-35-36  Hart Mfg Co 128 Bartholomew Ave
Airmec Ltd High Wycombe Buckinghamshire England 33 Airpax Products Co Middle River Baltimore 20 Md 18 Allard Instrument Corp 146 E 2 St Mineola LI NY 14-18 Allen-Bradley Co	13   Spring   Houston 5   Texas   10	E Orange NJ 10-17-18-19-30-33-35-36  Gyro Electronics Co 325 Canal St New York 13 NY 8  Hartman Electrical Mfg Co 175 N Diamond St 4-9-10-14-17-18-19  Mansfield Ohio 22-23-26-33-35-36
Airmec Ltd High Wycombe Buckinghamshire England Airpax Products Co Middle River Baltimore 20 Md Allard Instrument Corp 146 E 2 St Mineola LI NY Allen-Bradley Co 136 W Greenfield Ave	13   Spring   Houston 5   Texas   10	E Orange NJ 10-17-18-19-30-33-35-36  Gyro Electronics Co 325 Canal St New York 13 NY 8  Hartman Electrical Mfg Co 175 N Diamond St 4-9-10-14-17-18-19  Mansfeld Ohio 22-23-26-33-35-36  Hart Mfg Co 128 Bartholomew Ave Hartford 1 Conn 4-8-10-12-22-23-28  Hathaway Instrument Div Hamilton Watch Co 5800 E Jewell Ave Denver 22 Colo 18-19-36
Airmec Ltd High Wycombe Buckinghamshire England Airpax Products Co Middle River Baltimore 20 Md 18 Allard Instrument Corp 146 E 2 St Mineola LI NY 14-18 Allen-Bradley Co 136 W Greenfield Ave Milwaukee 4 Wisc 4-14-18-23-33-36-40	13.15   Spring   Houston   5   Texas   10	E Orange NJ 10-17-18-19-30-33-35-36 Gyro Electronics Co 325 Canal St New York 13 NY 8 Hartman Electrical Mfg Co 175 N Diamond St 4-9-10-14-17-18-19 Mansfield Ohio 22-23-26-33-35-36 Hart Mfg Co 128 Bartholomew Ave Hartford 1 Conn 4-8-10-12-22-23-28 Hathaway Instrument Div Hamilton Watch Co 5806 E Jewell Ave Denver 22 Colo 18-19-36 Haydon Co A W
Airmec Ltd High Wycombe Buckinghamshire England 33 Airpax Products Co Middle River Baltimore 20 Md 18 Allard Instrument Corp 146 E 2 St Mineola LI NY 14-18 Allen-Bradley Co 136 W Greenfield Ave Milwaukee 4 Wisc Allied Control Co 2 East End Ave 19-21-22-23-24-25-26	13.15   Spring   Houston   5	E Orange NJ 10-17-18-19-30-33-35-36 Gyro Electronics Co 325 Canal St New York 13 NY 8 Hartman Electrical Mfg Co 175 N Diamond St 4-9-10-14-17-18-19 Mansfield Ohio 22-23-26-33-35-36 Hart Mfg Co 128 Bartholomew Ave Hartford 1 Conn 4-8-10-12-22-23-28 Hathaway Instrument Div Hamilton Watch Co 5800 E Jewell Ave Denver 22 Colo 18-19-36 Haydon Co A W 232 N Elm St Waterbury 20 Conn 10-26-33 Haydon Mfg Co
Airmec Ltd High Wycombe  Buckinghamshire England  Airpax Products Co  Middle River Baltimore 20 Md 18  Allard Instrument Corp  146 E 2 St Mineola LI NY 14-18  Allen-Bradley Co  136 W Greenfield Ave  Milwaukee 4 Wisc  Allied Control Co  2 East End Ave  New York 21 NY 28-29-32-33-36-37-39	13.15   Spring   Houston   5   Texas   10	E Orange NJ 10-17-18-19-30-33-35-36  Gyro Electronics Co 325 Canal St New York 13 NY 8  Hartman Electrical Mfg Co 175 N Diamond St 4-9-10-14-17-18-19  Mansfield Ohio 22-23-26-33-35-36  Hart Mfg Co 128 Bartholomew Ave Hartford 1 Conn 4-8-10-12-22-23-28  Hathaway Instrument Div Hamilton Watch Co 5800 E Jewell Ave Denver 22 Colo 18-19-36  Haydon Co A W 232 N Elm St Waterbury 20 Conn 10-26-33  Haydon Mfg Co 245 E Elm St Torrington Conn 33
Airmec Ltd High Wycombe Buckinghamshire England 33 Airpax Products Co Middle River Baltimore 20 Md 18 Allard Instrument Corp 146 E 2 St Mineola LI NY 14-18 Allen-Bradley Co 136 W Greenfield Ave Milwaukee 4 Wisc 4-14-18-23-33-36-40 Allied Control Co 3-7-10-11-12-13-14-18 2 East End Ave 19-21-22-23-24-25-26 New York 21 NY 28-29-32-33-36-37-39 AMECO Inc	13.15   Spring   Houston 5   Texas   10	E Orange NJ 10-17-18-19-30-33-35-36 Gyro Electronics Co 325 Canal St New York 13 NY 8 Hartman Electrical Mfg Co 175 N Diamond St 4-9-10-14-17-18-19 Mansfield Ohio 22-23-26-33-35-36 Hart Mfg Co 128 Bartholomew Ave Hartford 1 Conn 4-8-10-12-22-23-28 Hathaway Instrument Div Hamilton Watch Co 5800 E Jewell Ave Denver 22 Colo 18-19-36 Haydon Co A W 232 N Elm St Waterbury 20 Conn 10-26-33 Haydon Mfg Co 245 E Elm St Torrington Conn 33 Heinemann Electric Co
Airmec Ltd High Wycombe  Buckinghamshire England  Airpax Products Co  Middle River Baltimore 20 Md 18  Allard Instrument Corp  146 E 2 St Mineola LI NY 14-18  Allen-Bradley Co  136 W Greenfield Ave  Milwaukee 4 Wisc  Allied Control Co  2 East End Ave  New York 21 NY 28-29-32-33-36-37-39	13.15   Spring   Houston   5   Texas   10	E Orange NJ 10-17-18-19-30-33-35-36  Gyro Electronics Co 325 Canal St New York 13 NY 8  Hartman Electrical Mfg Co 175 N Diamond St 4-9-10-14-17-18-19  Mansfield Ohio 22-23-26-33-35-36  Hart Mfg Co 128 Bartholomew Ave Hartford 1 Conn 4-8-10-12-22-23-28  Hathaway Instrument Div Hamilton Watch Co 5800 E Jewell Ave Denver 22 Colo 18-19-36  Haydon Co A W 232 N Elm St Waterbury 20 Conn 10-26-33  Haydon Mfg Co 245 E Elm St Torrington Conn 33

Yr. A denter Tre	Nemeth Inc	Sigma Instruments Inc
Hetherington Inc 1200 Elmwood Ave	2223 S Carmelina Ave	170 Pearl St S Braintree Mass 10-13-14-22-32
Sharon Hill Pa 11-14-23-30-31-33 Hi-G Inc	Matmorks Flactronics Corn	Simpson Electric Co 5200 W Kinzie St Chicago 44 III 6-8-16-18
Bradley Field	14806 Oxnard St Van Nuys Calli	Stolms Inc
Hillburn Electronic Products Co	40 2 Ave Phoenixville Pa	190 Henry St Stamford Conn Stevens-Arnold Inc
55 Nassau Ave Brooklyn 22 NY 13-14-18-20-23-40	Niagara Electron Labs Main St Andover NY	c Elline St
Houlihan Co T J	North Electric Co 5-8-10-12-13-14-16	South Boston 27 Mass 9-10-13-22-31-10
2508 W Lawrence Ave Chicago 25 Ill 40 Hufco Industries	553 S Market St 19-21-22-20-21 Galion Ohio 28-29-33-36-38-39	Dynamics Corp 100 Carison Rd 10 10 20 20
2815 W Olive Ave Burbank Calif 10-28-29	Oak Mfg Co	Rochester 3 NY
Hupp Electronics Co Div Hupp Corp 743 Circle Ave Forest Park III 20	1260 N Clybourn Ave Chicago 10 Ill 10-25-27-40	28 Ranick Dr Amityville 131 181
Induction Motors Corp 570 Main St Westbury LI NY 40	Ohmite Mfg Co 3601 Howard St	Telectro Industries Corp
Industrial Electronic Engineers	Skokie III 4-10-14-18-19-21-23-23-33-33	Long Island City l NY 1-8-10-11-13-24-38
3973 Lankershim Blvd N Hollywood Calif 8 Industrial Products Co Div Danbury-	OK Electronics Corp 7 Hunt Pl Nutley 10 NJ 30-33	Tel-Rad Electronics Corp 73-20 Trotting Course Lane
Knudsen Box 148 Danbury Conn 3	Pacific Relays Inc	Glendale LI 27 NY
Industrial Timer Corp 1407 McCarter Hwy Newark 4 NJ 33	12027 Vose St N Hollywood Calif 8-10-21-23-28-33	Tempo Instrument Co 5 Centre St Hempstead NY 8-33
Instrument Development Labs Inc 67 Mechanic St Attleboro Mass 39	Palmer Inc M V 4002 Fruit Valley Rd	Terado Co 1068 Raymond Ave St Paul 14 Minn 10-16-28
Instruments Inc	Vancouver Wash	
122 W Madison St Tulsa Okla 2 Intelex Systems Inc	Pantek Co P O Box 212 El Segundo Calif 8-20	2196 Clarkwood Rd Cleveland 3 Cities 5 - 1
22 Thames St	Partlow Corp 2 Campion Rd New Hartford NY 33	Tork Time Controls Inc 1 Grove St Mt Vernon NY 33
New York 6 NY 4-5-22-25-26-27-29 Iron Fireman Mfg Co Electronics Div		Touch-Plate Mfg Corp P O Box 1970 Long Beach 1 Calif 12-14
2838 SE 9 Ave Portland 2 Ore 10-21-38	312 N Nopal St Santa Barbara Calif Peschel Electronics Inc.	Tung-Sol Electric Inc
Jack & Heintz Inc 17600 Broadway Cleveland 1 Ohio 26	an d i Ct Now Rochelle IVI	95 8 Ave Newark 4 NJ 10-18-19-30-33
Jaidinger Mfg Co 1921 W Hubbard St	Phaostron Instrument & Electronic Co.	Ulanet Co George 413 Market St Newark 5 NJ 30-31-33
Chicago 22 Ill 4-5-10-14-18-21-28-31-33		Union Switch & Signal Div 10-12-21-22 Westinghouse Air Brake Co 25-28-29-30
Jennings Radio Mfg Corp 970 McLaughlin Ave 3-11-12-14-18	Philadelphia Scientific Glass 33 Box 46C Paleton Rd Quakertown Pa 24-37 Phillips Control Corp	Braddock Ave Pittsburgh 18 1'a 52-55
San Jose 8 Calif 21-23-24-37	59 W Washington St 4-5-10-11-12-36-39-40	United Aircraft Products Inc 1116 Bolander Ave Dayton 8 Ohio 40
Johnson Co E F Waseca Minn 24	Joliet Ill 20-21-23-25-55-55	Haited Electric Controls CO
Johnson Electronics Inc 521 Elwell St Orlando Fla 40	43 Vesey St New York 7 NY 2-8-20-33	85 School St Watertown 72 Mass United Transformer Corp Pacific Div
Kellogg Switchboard & Supply Co	Pickering & Co	4008 W Jefferson Blvd
Div IT&T 79 W Monroe St Chicago 3 Ill 5-9-12-29	309 Woods Ave Oceanside NY	Los Angeles 16 Calif Uniwave Inc 2 Marine St Farmingdale NY 3
King Electric Equipment Co	Pollak Corp Joseph	U S Instrument Corp
9123 Inman Ave Cleveland 5 Ohio 38 Kurman Electric Co 1-3-4-5-7-8-10-11-12	Boston 22 Mass 23-29-30-31-36-37-40	P O Box 33E Charlottesville Va 12-22-27-29-31-32
Kurman Electric Co 1-3-4-5-7-8-10-11-12 191 Newel St 13-14-18-20-21-22-23 Brooklyn 22 NY 24-29-32-33-36-39	Polytron Eng'g Inc	U S Relay Co 1744 Albion St 4-8-10-11-14-17-18
Labline Inc	Potter & Brumfield Inc	Los Angeles 31 Calif 21-28-29-30-33-35-40
3070 W Grand Ave Chicago 22 Ill 8 Larson Instrument Co	1200 E Broadway 20-21-22-23-26-27	Vapor Heating Corp 80 E Jackson Blvd
24 Orchard St Tarrytown NY 6	28-29-33-34-33-36-36-37	Chicago 4 III
Leach Corp 4-7-8-9-10-11-12 Leach Relay Div 13-14-17-18-19	Powers Regulator Co 30 3400 Oakton St Skokie III 50	Varo Mfg Co 2201 Walnut St Garland Tex 9
5915 Avalon Blvd 20-21-22-23-24-25	3400 Oakton St Skokle & Instrument Co Precision Thermometer & Instrument Co 1434 Brandywine St Philadelphia 30 Pa 8-15 24 7-8-9-10-11-14	Victory Eng'g Corp
Los Angeles 3 Calif 26-28-29-30-33-35-36 Leetronics Inc Lee Instrument Div	Price Electric Corp	117 Springfield Rd Union NJ 8-28 Vocaline Co of America
30 Main St Brooklyn 1 NY 40 Leland Inc G H	E Church & 2 St 17-18-19-21-23-24-20 26-27-28-29-33-35-36	Old Saybrook Conn 33
123 Webster St Dayton 2 Ohio 10-25-27-40	D C D Eng'g Co Div Induction Motors	Vokar Corp 7300 Huron River Dr Dexter Mich 40
Life Instrument Co P O Box 158 Braintree 85 Mass 10-18-23	8608 Otis St South Gate Calif Pye Canada Ltd	Waco Inc 2032 Broadway
Line Electric Co	82 Northline Rd	Ward Leonard Electric Co
271 S 6 St Newark 3 NJ 4-14-21-23 Lisk Co G W	Des Tolocommunications Ltd	Mt Vernon NY 23
Clifton Springs NY 40 Lumenite Electronic Co	Newmarket Rd Cambridge England 2.	Waugh Eng'g Co 7842 Burnet Ave Van Nuys Calif 9-17
407 Dearborn St	Pyramid Instrument Corp 630 Merrick Rd Lynbrook LI NY 4-11	West Coast Electrical Mfg Corp
Chicago 5 Ill 2-8-12-15-20-25-26-27-33 Lysco Mfg Co	Radio Corp of America	233 W 116 Pl Los Angeles 61 Calif Westinghouse Electric Corp
1401 Clinton St Hoboken NJ 3-24	Camden 2 NJ Radio Eng'g Co Radio Voyle 4 NV	P O Box 868 4-6-7-9-14-17-18-19-21
Machinery Electrification Inc 35 Hudson St Northboro Mass 8-20-23	8 State St New York 4 NY Radio Eng'g Products Ltd	Pittsburgh 30 Pa 22-23-30-33-35-36 Weston Electrical Instrument Corp
Mack Electric Devices Inc 48 Glenside Ave Wyncote Pa 15	1080 University St	Sub Daystrom Inc 614 Frelinghuysen Ave
Magnadyne Corp	Padionics Inc	Newark 12 NJ 6-23-29-33 Wheelock Signals Inc 3-4-7-8-10-11-12-13
84 S Water St Byram Conn 7-10-14-20-21-28-33	P O Box 186 Cockeysville Md 40	Long Branch NJ 14-19-20-21-22-23-24-25
Magnecraft Electric Co	RBM Division Essex Wire Corp 131 Godfrey St	26-28-29-32-33-34-36-37-38-39 Wilcolator Co
3352 W Grand Ave 3-4-5-7-10-11-12-13-14-18- Chicago 51 Ill 19-22-23-26-28-29-33-36	Logansport Ind 4-5-8-10-11-14-21-23-24-23	1001 Newark Ave Elizabeth NJ 33
MagneTec Corp	Resitron Labs Inc 2908 Nebraska Ave	Wilson & Co G C 1915 8 Ave Huntington 3 W Va 8-33
11785 W Olympic Blvd W Los Angeles 64 Calif 38	Santa Monica Calif	Worner Electronic Devices
Magnetic Devices Inc	Revere Corp of America Wallingford Conn 4-5-19-29-38-39	Rankin III 8-20
712 East St Frederick Md 3-4-11-14-25 Marion Electrical Instrument Co	Rich Electronics Inc 212 N W 8 Ave Miami 36 Fla 11-14-24	79—RESISTORS & VOLUME
Grenier Field Manchester NH 22-28	Pinley Co	CONTROLS
Mason Electric Corp 3839 Verdugo Rd Los Angeles 65 Calif 25-27	1 Factory St Middletown Conn 8 Roto Mfg Co	
Mercoid Corp 4201 Belmont Ave Chicago 41 III 4-36		Attenuators, audio 1
Mercury Contacts Inc	1030 W 2 Bt Active Cities	All Ann muncicion 7
P O Box 615-E Far Hills Sta	Scantlin Electronics Inc	Attenuators, precision 2
	Scantlin Electronics Inc 11624 W Pico Blvd Los Angeles 64 Calif 38 Scherma Mfg Co F H	Attenuators, precision
Dayton 9 Ohio 15 Metals & Controls Corp	Scantin Electronics Inc 11624 W Pico Blvd Los Angeles 64 Calif 38 Scherma Mfg Co F H 424 Broome St New York 13 NY 3-10-29 Schrack Electrical Sales Corp	Attenuators, precision
Dayton 9 Ohio 15 Metals & Controls Corp Spencer Thermostat Div 48 Forest St	Scantlin Electronics Inc 11624 W Pico Blvd Los Angeles 64 Calif 38 Scherma Mfg Co F H 424 Broome St New York 13 NY 3-10-29 Schrack Electrical Sales Corp 45 W 81 St	Attenuators, precision
Dayton 9 Ohio 15  Metals & Controls Corp Spencer Thermostat Div 48 Forest St Attleboro Mass 18-31  Milwaukee Gas Specialty Co	Scantlin Electronics Inc 11624 W Pico Blvd Los Angeles 64 Calif 38 Scherma Mfg Co F H 424 Broome St New York 13 NY 3-10-29 Schrack Electrical Sales Corp 45 W 81 St New York 24 NY 8-10-23-27-29-30-33 Scully Machine Co	Attenuators, precision
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Dayton 9 Ohio  Metals & Controls Corp Spencer Thermostat Div 48 Forest St Attleboro Mass  Milwaukee Gas Specialty Co 730 N Jackson St Milwaukee 1 Wis Modelectric Products Corp	Scantlin Electronics Inc 11624 W Pico Blvd Los Angeles 64 Calif 38 Scherma Mfg Co F H 424 Broome St New York 13 NY 3-10-29 Schrack Electrical Sales Corp 45 W 81 St New York 24 NY 8-10-23-27-29-30-33 Scully Machine Co 62 Walter St Bridgeport 8 Conn 62 Walter St Bridgeport 8 Conn 62 Switch & Relay Corp 6025 N Keystone Ave	Attenuators, precision
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Dayton 9 Ohio  Metals & Controls Corp Spencer Thermostat Div 48 Forest St Attleboro Mass  Milwaukee Gas Specialty Co 730 N Jackson St Milwaukee 1 Wis Modelectric Products Corp Asbury Park NJ  Muirhead Instruments Inc 677 5 Ave New York 22 NY  18-31  18-3	Scantlin Electronics Inc 11624 W Pico Blvd Los Angeles 64 Calif 38 Scherma Mfg Co F H 424 Broome St New York 13 NY 3-10-29 Schrack Electrical Sales Corp 45 W 81 St New York 24 NY 8-10-23-27-29-30-33 Scully Machine Co 62 Walter St Bridgeport 8 Conn 40 Sealectric Switch & Relay Corp 6025 N Keystone Ave Chicago 30 Ill Sensitive Research Instrument Corp 310 Main St New Rochelle NY 16	Attenuators, precision
Dayton 9 Ohio  Metals & Controls Corp Spencer Thermostat Div 48 Forest St Attleboro Mass  Milwaukee Gas Specialty Co 730 N Jackson St Milwaukee 1 Wis Modelectric Products Corp Asbury Park NJ  Muirhead Instruments Inc 677 5 Ave New York 22 NY Mullenbach Div Electric Machinery Mfg Co	Scantlin Electronics Inc 11624 W Pico Blvd Los Angeles 64 Calif 38 Scherma Mfg Co F H 424 Broome St New York 13 NY 3-10-29 Schrack Electrical Sales Corp 45 W 81 St New York 24 NY 8-10-23-27-29-30-33 Scully Machine Co 62 Walter St Bridgeport 8 Conn Sealectric Switch & Relay Corp 6025 N Keystone Ave Chicago 30 Ill 4-10-14-21-23-27-29 Sensitive Research Instrument Corp 310 Main St New Rochelle NY 16	Attenuators, precision
Dayton 9 Ohio  Metals & Controls Corp Spencer Thermostat Div 48 Forest St Attleboro Mass  Milwaukee Gas Specialty Co 730 N Jackson St Midwaukee 1 Wis Modelectric Products Corp Asbury Park NJ Muirhead Instruments Inc 677 5 Ave New York 22 NY Mullenbach Div Electric Machinery Mfg Co 2100 E 27 St Los Angeles 58 Calif National Aircraft Corp Electronics Div	Scantlin Electronics Inc 11624 W Pico Blvd Los Angeles 64 Calif 38 Scherma Mfg Co F H 424 Broome St New York 13 NY 3-10-29 Schrack Electrical Sales Corp 45 W 81 St New York 24 NY 8-10-23-27-29-30-33 Scully Machine Co 62 Walter St Bridgeport 8 Conn 6025 N Keystone Ave Chicago 30 Ill Sensitive Research Instrument Corp 310 Main St New Rochelle NY Sensory Inc Pleasantville Rd New Vernon NJ 8-20 Servo-Tek Products Co	Attenuators, precision
Dayton 9 Ohio  Metals & Controls Corp Spencer Thermostat Div 48 Forest St Attleboro Mass  Milwaukee Gas Specialty Co 730 N Jackson St Milwaukee 1 Wis Modelectric Products Corp Asbury Park NJ  Muirhead Instruments Inc 677 5 Ave New York 22 NY  Mullenbach Div Electric Machinery Mfg Co 2100 E 27 St Los Angeles 58 Calif National Aircraft Corp Electronics Div 3411 Tulare Ave Burbank Calif  40	Scantlin Electronics Inc 11624 W Pico Blvd Los Angeles 64 Calif 38 Scherma Mfg Co F H 424 Broome St New York 13 NY 3-10-29 Schrack Electrical Sales Corp 45 W 81 St New York 24 NY 8-10-23-27-29-30-33 Scully Machine Co 62 Walter St Bridgeport 8 Conn 40 Sealectric Switch & Relay Corp 6025 N Keystone Ave Chicago 30 Ill Sensitive Research Instrument Corp 310 Main St New Rochelle NY 16 Sensory Inc Pleasantville Rd New Vernon NJ 8-20	Attenuators, precision
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Potentiometers, frimmers 14	Calbest Electronics Co 4801 Exposition Blvd Los Angeles 16 Calif 11	Dwyer Eng'g Co
Resistors, boroncarbon 15	Calif Magnetic Control Corp	Pine St Ext Nashua NH 10-1
Resistors, composition, variable 16	11922 Valerio St N Hollywood Calif 3	Dyna-Empire Inc 1075 Stewart Ave Garden City LI NY 4
Resistors, decade	Cambridge Instrument Co Grand Central Terminal New York 17 NY 17	Castern Precision Resistor Corn
Resistors, deposited-carbon 18	Carborundum Co Globar Div	675 Barbey St 2-3-14-17-19-22-23-2
Resistors, encapsulated 19	Hyde Park Blvd	Brooklyn 7 NY 30-31-32-35-37-38-39-4 Eastman Kodak Co
Resistors, film	Niagara Falls NY 26-29-37-46	343 State St Rochester 4 NY
Resistors, fixed composition 21	Carter Mfg Corp 23 Washington St Hudson Mass 7-11-14	Lastman Pacific Co
Resistors, fixed wirewound 22	Carter Parts Co	2320 E 8 St Los Angeles 21 Calif 18-19-25-31-32-3
Resistors, fuse	3401 W Madison St Skokie III 22-38-40-47	Los Angeles 21 Calif 18-19-25-31-32-3 Edcliff Instruments
Resistors, glass 24	C B C Electronics Co 2601 N Howard St Philadelphia 33 Pa 20	205 W Duarte Rd
Resistors, high frequency 25	2601 N Howard St Philadelphia 33 Pa 20 Cedar Eng'g Inc	Monrovia Calif 4-5-7-10-11-12-1
Resistors, high temperature 26	Cedar Eng'g Inc 5806 W 36 St Minneapolis 16 Minn	Edcliff Instruments 1711 S Mountain Ave
Resistors, high voltage 27	Centralab Div Globe Union Inc	Duarte Calif 4-5-7-10-11-13-14-39-4
Resistors, industrial fixed 28	900 E Keefe Ave 4-7-9-11-12-14-18-21-32 Milwaukee 1 Wis 33-34-35-38-39-40-41-47	Elco Mfg Co
Resistors, negative temperature	Central Scientific Co	137 Herrick Rd New Hyde Park LI NY
coefficient	1700 Irving Park Rd Chicago 13 Ill 43	Electra Mfg Co 4051 Broadway
Resistors, plug-in tube 30	Chicago Aerial Industries Inc	Kansas City Mo 18-19-20-29-31-33
Resistors, precision 31	1980 N Hawthorne Ave Melrose Park Ill 7-11 Chicago Industrial Instrument Co	Electro Impulse Lab Inc
Posicions printed singuit	865 N Sangamon St Chicago 22 III 11	208 River St Red Bank NJ
Resistors, printed circuit 32	Chicago Telephone of Calif	Electro-Measurements Inc
Resistors, printed strip 33	105 Pasadena Ave S Pasadena Calif 4-5-12-38-39	7524 SW Macadam Ave Portland 1 Ore 11-17-3
Resistors, rectilinear 34	Chicago Telephone Supply Corp	Electromath Corp
Resistors, subminiature 35	Chicago Telephone Supply Corp 1142 W Beardsley Ave 4-5-6-7-12-16	42-14 Greenpoint Ave
Resistors, tape 36		Long Island City 4 NY 7-11-31-40 Electro-Mec Lab Inc
Resistors, temperature sensitive 37	Cinema Eng'g Div Aerovox Corp	47-51 33 St Long Island City I NY 7-11-40
Resistors, variable 38	Burbank Calif 1-2-11-17-19-22-31-35-39-40	Electrosolida Corn
Resistors, variable, miniature 39	Circuit Instruments Inc	7436 Varna Ave N Hollywood Calif
Resistors, variable, wirewound. 40	P U Box 1438 St Petersburg 1 Fla 5 7 11 14	Electrovert Inc 489 5 Ave New York NY
Rheostats, electronic 41	Clark Controller Co	Electro-Voice Inc
Rheostats, power	1146 E 152 St Cleveland 10 Ohio 27-28-42 Clark Electronic Labs	Cecil & Carrol Sts Buchasan Mich
Phoesials slidewing 43	Box 165	Elektro-Serv Co
Rheostats, slidewire 43	Palm Springs Calif 16-19-26-21 25 29 20	480 Johnson Ave
Suppressors	Clarostat Mig Co	Brooklyn 37 NY 4-7-10-14-16-20-26-33-34-38-39 El-Rad Mfg Co
Thermistors 45	Washington St 1-4-5-6-7-11-12-14-16-18-19 Dover NH 22-23-28-30-31-32-38-40-42	2800 W Cullom Ave Chicago 18 III ag
Varistors 46	Dover NH 22-23-28-30-31-32-38-40-42 Coilcraft Inc	
Volume controls 47	Cary Ill	38-15 Bell Blvd Bayside 61 NY
Wirewound strips 48		Erie Resistor Corp 644 W 12 St Erie 6 Pa 28-32-33-35-38-39-44
	New York Ave Westbury LI NY 3-19 Colber Corp	
Ace Electronics Associates	26 Buffington St Irvington 11 317	534 Bergen Blvd Palisades Park NJ
99 Dover St Somerville 44 Mass 7-11-14		
Aerovox Corp Pacific Coast Div 2724 S Peck Rd Monrovia Calif	1017 NR 3 Ava Ava-111 m	225 Park Ave Hicksville LI NY 5-7-8-11-14 Federal Telephone & Radio Co Div IT&T
Allen-Bradley Co	Columbia Electric Mfg Co 4519 Hamilton Ave Cleveland 14 Ohio 42	100 Kingsland Rd Clifton NJ 21-47
136 W Greenfield Ave 4-5-7-12-16-19-21-26 Milwaukee 4 Wis 32-35-36-38-39-41-42-47		
Milwaukee 4 Wis 32-35-36-38-39-41-42-47	364 Glenwood Ave E Orange NJ 7-11	Mellen St Framingham Mass 37-45 Fenwal Inc
Allies' Products Corp P O Box 188 Kendall Station Miami Fla 18		Pleasant St Ashland Mass
Amerac Inc	110 St & 71 Hwy Hickman Mills Mo Computer Instruments Corp	Filmohn Corn
116 Topsfield Rd Wenham Mass 2	32 Madison Ave	48 W 25 St New York 10 NY 2-20-24-31
American Communications Corp	Hempstead NY 5 7 10 14 10 04 00	Filtron Co 131-15 Fowler Ave Flushing 55 NY 44
280 Broadway New York 17 NY 1-47 American Lava Corp Subs Minn Mining & Mfg		
Cherokee Blvd & Mfrs Rd	1711 S Mountain Ave Monrovia Calif 14-38-39 Consolidated Productions Inc	10023 W Jefferson Blvd
Cherokee Blvd & Mfrs Rd Chattanooga 5 Tenn 15-18	Broward Intil Aires The	Culver City Colff
Analogue Controls Inc 39 Roselle St	Consolidated Resistance Co of America	First Electronics Corp 117 Blue Hill Ave Boston 19 Mass 19-31-48 Ford Eng'g Lee
Mineola NY 7-9-11-13-38-39-40-43	44 Prospect St Yonkers 1 NY 17-22-31-35 Corbett Science Labs F W	
Anton Electronic Labs	3117 Venice Rlyd	3030 Nehrosko Avo Come M
1226 Flushing Ave Brooklyn 6 NY 7-11-22-38-40	3117 Venice Blvd Los Angeles 19 Calif Cornell-Dubilier Electric Cornell-Dubilier Electric	F-R Machine Works Inc Electronic & X-Ray Div
Atlas Resistor Co	Cornell-Dubilier Electric Corp	26-12 Borough Di Wood-14 on here
1128 Madison St. Chester Pa 22 21 40	Corning Glass Works Plainfield NJ 17	- "Sie Miller Laus Inc
Avia Products Co		301 Central Ave Clark NJ Gamewell Co
7266 Beverly Blvd Los Angeles 36 Calif 28	Cutler-Hammer Inc	1238 Chestnut St
Avion Div ACF Industries Inc 11 Park Pl Paramus NJ 3	315 N 12 St Milwaukee 1 Wis 41 Dale Products Inc 3-5-10-11-12-13-14	Newtown Unper Falls C4 M
Axel Electronics		O'O Electronica Div Conomal
134-20 Jamaica Ave Jamaica 18 NY 31	22-20-20-26	Pools and Till Pools S Wyman St
Darker & Williamson Inc	Dampp-Chaser Inc 27-28-31-32-35-38-39-40	General Cement Ms- G. D. = 21-22-27-38-42
Canal & Beaver Sts Bristol Pa  Beck Bros  3	Box 520 Hendersonville NC	
421 W Sedgley Ave	Darco Industries Inc Gyro Dynamics Div 2151 E Rosencrans Ave El Segundo Calif 11	
Philadelphia 40 Pa 22-31-40-42-43		801 Allen Ave Glendale 1 Calif 7-11-13 General Electric Co
Newport Port Corp	Route 10 1-2-3-5-7-9-11-12	Box 237 Roosevelt Park Annex
	10-17-18-19-20-22-23-24	
Dell Aircraft Corn	Route 10 16-17-18-19-20-22-23-24 Livingston NJ 26-30-31-32-39-40-47	
P O Box 1 Ruffelo 5 NV	135 W 29 St Man W	General Electric Co Specials 29-37-45-66
P O Box 1 Buffalo 5 NY Bendix Avistion Corp.  1-2	135 W 29 St New York 1 NY Daystrom Paging Core Page 1 NY	General Section Co Specialty Electronic Components Dept W. General St. Above 199-37-45-66
P O Box 1 Buffalo 5 NY Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich	135 W 29 St New York 1 NY Daystrom Pacific Corp Potent 10 Meter Div	General Electric Co Specialty Electronic Components Dept W Genesee St Auburn NY General Electric Co Annual Section 29-37-45-66
Bell Aircraft Corp P O Box 1 Buffalo 5 NY Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich Berkshire Labs 586 Bank Village Greenville NU	135 W 29 St New York 1 NY Daystrom Pacific Corp Potent 10 Meter Div 11150 La Grange Ave Los Angeles 25 Calif 5-7-10-11-12-14-38-39-40	General Electric Co Specialty Electronic Components Dept W Genesee St Auburn NY General Electric Co Apparatus Sales Div
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Hays Mfg Co 12 & Liberty St Erie Pa 47	14806 Oxnard St Van Nuys Calif 31	12500 Aviation Blvd Hawthorne Calif 8-10 Servonic Instruments Inc
Heath Co 305 Territorial Rd Benton Harbor Mich 17	Norden-Ketay Corp Commerce Rd Stamford Conn 7-11-13	1145 S Fair Oaks Ave
Helco Products Corp 7832 Balboa Blvd	Nucleonic Products Co 1601 Grande Vista Ave	Servonics Inc
Van Nuys Calif 7-11-12-38-39-40 Herzog Miniature Lamp Works	Los Angeles 23 Calif 18-22-31-35-38-40 NYT Electronics Inc	Servotrol Co
50-17 5 St Long Island City 1 NY 31	2979 N Ontario St Burbank Calif 3	114 W Illinois St Chicago 10 Ill Shallcross Mfg Co
Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif 1-2	12508 Berea Rd 16-21-22-23-25-26	Jackson & Pusey Aves 1-3-11-17-19-22 Collingdale Pa 25-26-27-28-31-35
Hi-Q Div Aerovox Corp Myrtle Beach S Car 15-18-19-20-31	Ohio Carbon Co 12508 Berea Rd 16-21-22-23-25-26 Cleveland 11 Ohio 27-28-38-40-44 Ohmite Mfg Co 4-5-6-7-13-16-17 3601 Howard St 19-21-22-28-26-28-31 Skokie III 38-39-40-41-42-43 Onondaga Pottery Co	Simpson Electric Co 5200 W Kinzie St Chicago 44 Ill 45
Howell Instrument Co 3101 Trinity St Ft Worth 7 Texas 7-13	3601 Howard St 19-21-22-23-26-28-31 Skokie III 38-39-40-41-42-43	Slip Ring Co of America
Humphrey Inc	Onondaga Pottery Co	3612 W Jefferson Blvd Los Angeles 16 Calif
2805 Canon St San Diego Calif 7-11-13 Ideal-Aerosmith Inc	1858 W Fayette St Syracuse 1 NY 32 Osborne Electronic Corp	Solar Mfg Corp 4553 Seville Ave Los Angeles 58 Calif 32
12909 S Cerise Ave Hawthorne Calif 7-11-14 Insuline Corp of America	712 SE Hawthorne Blvd Portland 14 Ore 22-35-40	Solartron Electronic Group Ltd Queens Rd Thames Ditton
186 Granite St Manchester NH 44	Pacific Scientific Co P O Box 22019 Los Angeles 22 Calif 7-11	Surrey England 1-2-7-11 Southern Electronics Corp
Instrument Resistors Co 1036 Commerce Ave	Painton & Co Ltd c/o British Electronic Sales Co 1-2-7-11-13	239 W Orange Grove Ave Burbank Calif 3
Union NJ 17-19-22-26-31-35-37 Intelex Systems Inc	Box 132 14-17-18-19-20-22-24-25-26-27-28 Oakland Gardens 64 NY 29-31-32-35-38-39-40	Specialties Inc Skunks Misery Rd Syosset LI NY 7-11-13
22 Thames St New York 6 NY Interference Measurement Lab Inc	Palo Alto Eng'g Co	Spectrol Electronics Div Carrier Corp
907 E 51 St Brooklyn 3 NY 44	620 Page Mill Rd Palo Alto Calif Peerless Electrical Products	San Gabriel Calif 17-31-38-39-40 Speer Resistor Div Speer Carbon Co
401 N Broad St 18-19-20-21-22-23-25-26 Philadelphia 8 Pa 27-31-33-38-40-46-47	1515 S Manchester Ave Anaheim Calif 3 Perkin-Elmer Corp	Bradford Pa Sperry Gyroscope Co Div Sperry Rand Corp
Jackson Electronics Inc	Main Ave Norwalk Conn 7-9 Phaostron Instrument & Electronic Co	Great Neck NY 2-45 Sprague Electric Co
23 Woodcrest Rd West Chester Pa 22-32-34-40	151 Pasadena Ave S Pasadena Calif 18-24 Photobell Co	Marshall St North Adams Mass 22-25-26-27-28-31-35
Janco Corp 3111 Winona Ave Burbank Calif 31	43 Vesey St New York 7 NY 47 Polarad Electronics Corp	Cl William line
Jerrold Electronics Corp	43-20 34 St Long Island City 1 NY 25-35	6 & Beech Sts Grafton Wis Stackpole Carbon Co St Marys Pa  32 4-5-12-16 21-36-38-39
Johnson Electronics Inc	Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY 2-19-20	St Marys Pa 21-36-38-39 States Co
Julie Research Labs	Potter Co 1950 Sheridan Rd N Chicago III 22	19 New York Ave Hartford 6 Conn 31 Stewart Warner Electronics Div
556 W 168 St New York 32 NY 22-31 Kay Electric Co	Precise Development Corp 2 Neil Ct Oceanside NY 17	1300 N Kostner Ave Chicago 51 Ill Sticht Co Herman H
14 Maple Ave Pine Brook NJ	Precision Capacitors Inc 150 W Cypress St Burbank Calif 3	27 Park Pl New York 7 NY 43
Keystone Carbon Co 1935 State St St Marys Pa 45	Precision Inc	Stoddard Aircraft Radio Co 6644 Santa Monica Blvd Hollywood 38 Calif 2
K-F Development Co 2606 Spring St	730 N Lyndale Ave Minneapolis 11 Minn 19-22-31-37	Sullivan Ltd H W 80 Shore Rd
Redwood City Calif 11-19-27-30-31-37-39-40 Lectrohm Inc	Precision Line Inc 63 Main St	Port Washington NY 1-2-13-17-31 Symphony Electronics Corp
5560 Northwest Hwy Chicago 30 III 22-23-28-31-32	63 Main St Maynard Mass 5-7-11-13-14-34-38-40 Precision Resistor Co	925 S Western Ave Los Angeles 6 Calif 21 Tarc Electronics Inc
Leeds & Northrup Co	109 U S Hwy 22 Hillside NJ 17-19-22-27-31-37	48 Urhan Ave Westbury LI NY Technology Instrument Corp
1970 Stenton Ave Philadelphia 44 Pa 13-17-22-31	Production Research Corp Thornwood NY 1	531 Main St Acton Mass 5-7-8-11-13-14-38-39-40
Lewis Eng'g Co 339 Church St Naugatuck Conn 37	Pye Canada Ltd	Tech-Ohm Resistor Corp
Licco Inc 3610 Oceanside Rd Oceanside LI NY 2	82 Northline Rd Toronto 16 Ontario Canada 13-31	Long Island City 6 NY 29-31-32-33-40
Litton Industries of Calif	Pyrofilm Resistor Co 8 Whippany St	Telechrome Mfg Corp 28 Ranick Dr Amityville LI NY 2
336 N Foothill Rd Beverly Hills Calif 5-6-7-11	Morristown NJ 18-20-24-25-26-29-31 Radio Corp of America	Telectro Industries Corp 35-18 37 St Long Island City 1 NY 3-19
Litton Industries Components Div 5873 Rodeo Rd	Commercial Electronic Products Camden 2 NJ	Telegraph Condenser Co N Acton London W 3 England 3
Los Angeles 16 Calif 7-11-13-38-40 Litton Industries of Md Inc	Rahm Instruments Inc 237 Lafayette St New York 12 NY 5-7-11-14	Teleradio Eng'g Corp Shannon & Barrett Sts Wilkes-Barre Pa 22
4910 Calvert Rd College Park Md 7-11-14 Lux Clock Mfg Co	Raymond Eng'g Lab Inc	Televiso Corp
Johnson St Waterbury Conn 23	Smith St Middletown Conn 11 Raytheon Mfg Co	Telex
Mallory & Co Inc P R 42 S Gray St 7-22-23-32-35-38	100 River St Waltham 54 Mass RCL Mfg Co	1633 Eustis St St Paul 1 Minn 30 Tel-Labs Inc
Indianapolis 6 Ind 39-40-41-42 Maurey Instrument Corp	New Jersey Ave Riverside NJ 19-22-31-32-33-35-40	1050 2 St Manchester NH 17-19-22-26-27-29-31-35-37
7924 S Exchange Ave Chicago 17 Ill 5-7-11-12-14-41	Reed & Reese Inc 717 N Lake Ave Pasadena 6 Calif 11	Telonic Industries Inc 73 N 2 Ave Beech Grove Ind
Mel-Rain Corp 2100 E Fletcher Ave	Reon Resistor Corp	Tepro Electric Corp 5 St Paul St Rochester 4 NY 22-26-31-35
Indianapolis 3 Ind 38-39-40	117 Stanley Ave Yonkers NY 16-17-19-22-26-31-32-35-38-39	Texas Instruments Inc 6000 Lemmon Ave
Menco Inc Abbett Ave 17-18-19-20-22-24-25	Research Instrument Co P O Box 9168 Montavilla Station	Dallas 9 Texas 18-19-20-25-26-29-31-35
Morristown NJ 26-28-29-30-31-32-35 Metavac Inc	Portland 16 Ore 11-17-22-40 Resistance Products Co	Thale Eng'g Corp 2104 E Villa St Pasadena Calif
45-68 162 St Flushing 58 NY 2-20-24 Micamold Electronics Mfg Corp	914 S 13 St Harrisburg Pa 3-19-20-22-25-27-30-31-35	Thermo Electric Co 109 5 St Saddle Brook NJ 5-7-11-13
1087 Flushing Ave Brooklyn 37 NY 44 Miller Co J W	Resistors Inc	Topp Industries Inc 5255 W 102 St
5917 S Main St Los Angeles 3 Calif 3	5226 W 26 St Chicago 13 III 22-38-40 Rex Rheostat Co	Los Angeles 45 Calif 7-11-38-39-40-41
Miller Electro-Research Labs 5529 S 5 St Milwaukee 7 Wis 31-45	3 Foxhurst Rd Baldwin LI NY 13-22-25-28-40-43	808 16 St Bakersfield Calif Tru-Ohm Products Div Model
Milwaukee Resistor Co 700 W Virginia St	Rogers Corp	Eng'g & Mfg Co 2800 N Milwaukee Ave Chicago 18 Ill 7-22-40-4
Milwaukee 4 Wis 22-23-26-27-28-32-38-40 Minco Products Inc	Rollan Electric Co	Union Switch & Signal Div
740 Washington Ave Minneapolis 1 Minn 11	8233 S Princeton Ave Chicago 20 Ill 19-31 Rosemont Eng'g Co	Westinghouse Air Brake Co Braddock Ave Pittsburgh 18 Pa
Minn-Honeywell Regulator Co Aero Div 1433 Stinson Blvd	Rosemount Minn Ruge Associates Arthur C	United Mineral & Chemical Corp 16 Hudson St
Minneapolis Minn 45 Minneapolis-Honeywell Regulator Co	733 Concord Ave Cambridge 38 Mass 37	New York 13 NY 16-18-22-31-40-4 United Transformer Corp
Industrial Div Wayne & Windrim Aves Philadelphia 44 Pa 13	Sage Electronics Corp 302 N Goodman St Rochester 7 NY 22-31	II S Instrument Corp
Model Eng'g & Mfg Inc 50 Frederick St	St Marys Carbon Co State St St Marys Pa 21	P O Box 33E Charlottesville Va Victoreen Instrument Co
Huntington 1nd 1-2-22-26-27-28-31-38-40	San Fernando Electric Mfg Co 1509 1 St	5806 Hough Ave Cleveland 3 Ohio 18-19-3 Victory Eng'g Corp
Muirhead & Co Ltd Beckenham Kent England 1-2-9-17-22-31	San Fernando Calif 7-11-38-39-40	117 Springfield Rd Union NJ 29-31-45-41
Muirhead Instruments Inc 677 5 Ave New York 22 NY 2-11-13-17-22-31	Scientific Coil Co 5619 Broadway Chicago 40 Ill 31	Walkirt Co 141 W Hazel St Inglewood 3 Calif
Muter Co 1255 S Michigan Ave	Scientific Glass Apparatus Co 100 Lakewood Terrace Bloomfield NJ 43	Walsco Electronics Mfg Co 100 W Green St Rockford III
Chicago 5 III 7-11-22-29-39-40	Sensitive Research Instrument Corp 310 Main St New Rochelle NY 22-27-31	Ward Leonard Electric Co Mt Vernon NY 25-26-28-32-38-39-4
Nagog Associates Inc Littleton Mass 11-31-40		Waters Mfg Inc Boston Post Rd
National Capacitor Co 18 Webster St Brookline 46 Mass		Wayland Mass 7-11-13-14-38-39-4

317 31 3		
Waveline Inc Passaic Ave Caldwell NJ	Dallons Labs	Ohio Carbon Co
Welch Mfg Co W M	5066 Santa Monica Blvd	12508 Berea Rd Cleveland 11 Ohio 7-12
1515 Sedgwick St Chicago 10 H1 48	Los Angeles 29 Calif Delta Chemical Works	Optical Gaging Products Inc 26 Forbes St Rochester 11 NY
Welwyn Int'l Inc	23 W 60 St New York 23 NY 9-10	Opto Eng'g Co
3355 Edgecliff Terrace 18-19-20-22-24-25	DeMornay-Bonardi Corp	3524 W Washington Blvd
Cleveland 11 Ohio 26-27-29-31-35-40 Westbury Electronics Inc	780 S Arroyo Pkwy Pasadena Calif 10	Los Angeles 18 Calif
300 Shames Dr Westbury NY 2	Eastman Pacific Co	Penn Fibre & Specialty Co
West Coast Research Corp	2320 E 8 St Los Angeles 21 Calif 8-10-13	2020 E Westmoreland St
23711/2 Westwood Blvd	Electrical Industries	Philadelphia 34 Pa 2-3-9
Los Angeles 64 Calif	691 Central Ave Murray Hill NJ 8	Phillips Control Corp 59 W Washington St Joliet III 8-10
Westinghouse Electric Corp	Electrical Specialty Co	59 W Washington St Joliet III S-10 PIC Design Corp
P O Box 868 Pittsburgh 30 Pa 22-27-31	158 11 St San Francisco 3 Calif 6	477 Atlantic Ave E Rockaway LI NY 3
Westronies Inc	Electro-Miniatures Corp	Pye Canada Ltd
3605 McCart Ft Worth Texas	1060 Elm Ave Ridgefield NJ 4-5 Electro Tec Corp	82 Northline Rd
White Dental Mfg Co S S Industrial Div 10 E 40 St New York 16 NY 21-27-31	4 Romanelli Ave S Hackensack NJ 4-5	Toronto 16 Ontario Canada 8
White Instrument Labs	Emerson Plastics Corp	Radio Frequency Labs Inc
Box 9006 Allandale Station	Seabury Ave & Butler Pl	Boonton NJ 12-13 Raytheon Mfg Co Ceramic Sales
Austin 17 Texas 3	Bronx 61 NY 8-9-11-12	Foundry Ave Waltham Mass 8-9-11
Williamson Development Co	Enflo Corp	Raytheon Mfg Co Microwave & Power
317 Main St W Concord Mass Wirt Co Continental Carbon Div	Rte 38 at Airport Circle	Tube Operations
5221 Greene St	Pennsauken 11 NJ 2-3-4-9-11-12-13	Foundry Ave Waltham Mass 8-9-11
Philadelphia 44 Pa 18-20-22-28-31-38-40-44	Farnsworth Electronics Co Div IT&T 3702 E Pontiac St Ft Wayne Ind 13	Red Point Corp 1907 Riverside Dr Glendale 1 Calif 12
Workman TV Inc	Farnsworth Electronic Co Pacific Div	1907 Riverside Dr Glendale 1 Calif 12 Resistoflex Corp
309 Queen Anne Rd	815 S San Antonio Rd	Woodland Rd Roscland NJ 9-11
Teaneck NJ 21-22-23-27-29-35-37-45	Palo Alto Calif 8-9-10-13	Robertshaw-Fulton Controls Co
00 00410	Felt Products Mfg Co	Fulton Sylphon Div
80—SEALS	1504 Carroll Ave Chicago 7 III 10-11	P O Box 400 Knoxville 1 Tenn 12
	Fluorocarbon Products Inc Div U S	Roberts Toledo Rubber Co
O-Rings	Gasket Co 602 N 10 St Camden 1 NJ	1200 Prospect Ave Tolcdo 6 Ohio 1 Rogers Corp
Rings, oil sealing	Frenchtown Porcelain Co	Rogers Conn 2 3-9-11
Rings, retaining 3	Muirhead Ave Trenton 9 NJ 8	Romac Products Co
Pings slip	Garde Mfg Co	48-01 25 Ave Long Island City 3 NY 8-10
Rings, slip 4	588 Eddy St Providence 3 RI 8-9	Rubbercraft Corp of Calif
Rings, slip & brush assemblies 5	Garlock Packing Co	1800 W 220 St Torrance Calif 2-9 St Marys Carbon Co
Sealers, protective 6	402 Main St Palmyra NY 1-2-7-11-12	State St St Marys Pa 2-4-5-7-11-12
Seals, carbon 7	General Cement Mfg Co Div Textron Inc 400 S Wyman St Rockford III 6-9-10	Sealol Corp
Seals, hermetic 8	General Ceramics Corp 6-9-10	Warwick Industrial Park
Seals, insulating 9	Keasbev N.I	Providence 5 RI 11-12
Seals, metal-to-glass 10	General Findings & Supply Co.	Seals Ltd 1010 Mission St S Pasadena Calif 8-9-10
Seals, oil	Industrial Div Leach & Garner Bldg	Sealtron Corp
Seals, shaft	Attieboro Mass	Reading Rd at Amity
	General Hermetic Sealing Corp 99 E Hawthorne Ave Valley Stream NY 8	Cincinnati 15 Ohio 8-10
Seals, switch 13	Graphite Metallizing Corp	Servonic Instruments Inc
Acres Wine Cla	1002 Nepperhan Ave Yonkers NY 45	1145 S Fair Oaks Ave Pasadena 2 Calif 4-5 Silicon Insulation Inc
Acme Wire Co 1255 Dixwell Ave New Haven 14 Conn 6	nanuy & narman	Seabury Ave & Butler Pl Bronx 61 NY 9
Advanced Products Co	82 Fulton St New York 38 NY Heldor Mfg Corp	Simonds Saw & Steel Co
59 Broadway North Haven Conn 11	938 Louis Ct Data - Not	470 Main St Fitchburg Mass 3 1
Advanced Vacuum Products Inc	Hermaseal Co 8-11	Sinclair Mfg Co P O Box 243 Chartley Mass 4
430 Fairfield Ave Stamford Conn 8-10	1101 Lafayette St Elkhart Ind 9 10	P O Box 243 Chartley Mass 4 Slip Ring Co of America
Aetna Felt Co 204 Centre St New York 13 NY 11	nermetic Connector Corp	3612 W Jefferson Blvd
204 Centre St New York 13 NY 11 Airflyte Electronics Co	481 Washington St Newark N.I.	Los Angeles 16 Calif 4-5
535 Avenue A Bayonne NJ 1-5	Hermetic Seal Corp 29 S 6 St Newark 7 NJ 8-9-10	Sonneborn Sons L 404 4 Ave New York 16 NY 6-10
American Lava Corp Subs Minn Mining &	Hermetite Corp 8-9-10	404 4 Ave New York 16 NY 6-10 Sparta Mfg Co
Mfg Cherokee Blvd & Mfrs Rd	702 Rangon St. D	Dover Ohio 2-9-12
Chattanooga 5 Tenn 8-9 Amphenol Electronics Corp	Industrial Devices Inc	Spinform Inc
	982 River Rd Edgawatan N.I.	65 Mechanic St Attleboro Mass 4
Andrew Corp 8	Industrial Electrical Works	Stackpole Carbon Co St Marys Pa 2-7-11
363 E 75 St Chicago 19 III 1	1509 Chicago St Omaha 2 Nebr	St Marys Pa 2-7-11 Stupakoff Div Carborundum Co
Armstrong Cork Co	Industrial Retaining Ring Co 57 Cordier St Irvington 11 NJ	Latrobe Pa 8-10
W Liberty St Lancaster Pa 1-2-11-12		Swedlow Plastics Co
Auburn Mfg Co	22 E 40 St New York 16 NV 1 2 C 0 10 11 12	6986 Bandini Blvd Los Angeles 22 Calif 9
Stack St Middletown Conn 2-9-10-13 Autel Electronics Co		Syntron Co 263 Lexington Ave Homer City Pa 11-12
P O Box 225 Linden NJ 8-10	230 Centre St New York 13 NV	Taylor Fibre Co
Automatic Methods Inc	Kuppers Co	Norristown Pa 1-9
965 W Grand St Elizabeth NJ 2-3-4-5	Koppers Bldg Pittsburgh 19 Pa 6 Kost Products Co	Telectro Industries Corp
Automatic & Precision Mfg Co	2335 N Ciana A. Ol	35-18 37 St Long Island City 1 NY 4-5-8-12
252 Hawthorne Ave Yonkers NY 11-12-13 Bacon Industries	Kuille Hingsten Co	Thompson Products Inc Piston Ring Div (Ramsey Corp) 3693 Forest Park Blvd
192 Pleasant St Watertown 72 Mass 1-11	1040 Hoyt Ave Ridgefield NJ 10	St Louis 8 Mo
Beck's Inc	Lamtex Industries Inc	Titchener & Co E H
298 E 5 St St Paul 1 Minn 4-5	51 State St Westbury NY	67 Clinton St Binghamton NY 3
Belfab Corp	Lee Chemical Corp Walter	Toledo Commutator Co
11 Ramah Circle Agawam Mass 12	Seabury Ave & Butler Pl Bronx 61 NY	Owosso Mich Tricon Mfg Co
Bios Labs Inc	Linear Inc	8012 Wallace St Chicago 20 III 4-5
17 W 60 St New York 23 NY 9-10 Breeze Corps	State Rd & Levick St Philadelphia 35 Pa 1	United Aircraft Products Inc
COO Tibert A VV	Maylair Molded Products Com	1116 Bolander Ave Dayton 1 Ohio 1-2-11
Brilhart Plastics Corp	3 (00 N Rose St Franklin Pouk III	Uniwave Inc 2 Marine St Farmingdale NY 4-5
Old Country Rd Mineola NY 4	Metals & Controls Corn Ceneral Dist., Dis.	U S Graphite Co Div Wickes Corp
Bristol Co	Torest St Attleboro Mass	1621 Holland Ave Saginaw Mich 2-3-4-7-11-12 U S Stoneware Co Alite Div
P O Box 1790 EITT	Micromold Products Corp 1 School St Yonkers NY	Orville Ohio 8-9
Waterbury 20 Conn 11 Cartriseal Corp	Midland Paint & Varnish Co.	Victory Mfg Corp
3515 W Touly Ave Chicago 45 III 11-12	3801 E 91 St Cleveland 5 Ohio e	1722 W Arcade Pl Chicago 12 Ill 1
Ceramaseal Inc	Minnesota Rubber & Gasket Co	Vitroseal Corp 709 E 106 St Indianapolis 20 Ind 8-10
P O Box 25 New Lebanon Center NV 8	3630 Wooddale Ave St. Louis Park	Waldes Kohinoor Inc
Cerro De Pasco Sales Corp	Minneapolis 16 Minn 1-9-11-12-12	47-16 Austel PI Long Island City 1 NY 10
300 Park Ave New York 22 NY 10 Chicago-Allis Mfg Corp	Minor Rubber Co Ackerman St Bloomfield NJ 2-9-11-12-13	warren Plastics Corp Warren Pa 10
110 N C	Ackerman St Bloomfield NJ 2-9-11-12-13 Mitronics Inc	Wesche Electric Co R A
Chicago Gasket Co	1290 Central Ave Hillside NJ 8-9-10	1622 Vine St Cincinnati 10 Ohio 4-5 Wheaton Co T C
1271 W North Ave Chicago 22 111 1	Molding Corp of America	Millville NJ 8-9-10
Cinch Mig Corp	58 Weybosset St Providence 3 RI 8	Wolfe Co F C Div Parker Appliance Co
1026 S Homan Ave Chicago 24 III 3	Morganite Inc	10567 Jefferson Blyd Culver City Calif 9
Coaxial Connector Co	33-02 48 Ave Long Island City 1 NY 11-12	Zell Products Corp
37 N 2 Ave Mt Vernon NY Conn Hard Rubber Co	National Carbon Co Div Union	280 Main St Norwalk Conn 8
P O Box 1911 New Haven 9 Conn 8-9-10-11	Carbide & Carbon 30 E 42 St New York 17 NY	81—SEMI-CONDUCTORS
Constantin & Co L L	National Lock Washer Co	a armi-coupactoka
Route 46 Lodi NJ	40 Hermon St Newark 5 NJ	Diodos enucial
Corning Glass Works	Neosil Products Div Rubber Associates	Diodes, crystal 1
Corning NY Crane Packing Co	745 5 Ave New York 22 NY 8-11-12-13	Diodes, germanium 2
6400 Onlyan Ct. M. J. C.	Newcomb Spring Corp	Diodes, silicon 3
0400 Oakton St Morton Grove III 1-12	177 E Hawthorne Ave Valley Stream NY 3	Transistors, junction 4

Torrighton shade 5	Radio Receptor Co	Bassett Inc Rex
Transistors, photo	240 Wythe Ave Brooklyn 11 NY 2 Raytheon Mfg Co Receiving & Cathode	Becker Productions V S
Transistors, power 7	Ray Tube Operations 55 Chapel St	Beck's Inc
Transistors, selenium	Newton 58 Mass 1-2-3-4-5-6-7-8-10-11	298 E 5 St St Paul 1 Minn 6-26-27 Bell & Howell
Transistors, switching 10	Sprague Electric Co Marshall St North Adams Mass 4-6-9-10	7100 McCormick Rd Chicage 45 III 4 Bemiller Productions
Transistors, tetrode 11	Sylvania Electric Products Inc 1740 Broadway	2350 Hyperion Ave Hollywood 27 Calif 6
	New York 19 NY 1-2-3-4-6-7-10	Bennett & Co Paul 230 E Ohio St Chicago II III 19
American Elite Inc 7 Park Ave New York 16 NY 2	Texas Instruments Inc 6000 Lemmon Ave	Bodde Screen & Projector Co 11541 Bradley Ave San Fernando Calif 23-24
Amperex Electronic Corp	Dallas 9 Texas 3-4-5-7-10-11 Thermosen Inc	Boulevard Recording Studio 25 E Jackson Blvd Chicago 4 III 15-16-17-18
230 Duffy Ave Hicksville LI NY 2-3-4-6-7	361 W Main St Stamford Conn 3 Transitron Electronic Corp	Bray Studios Inc 729 7 Ave New York 19 NY 6-7
Arnold Magnetics Corp 4615 W Jefferson Blvd	168 Albion St Wakefield Mass 1-2-3-4-7	Broadcast Equipment Specialties Corp
Los Angeles 16 Calif 10	Tung-Sol Electric Inc 95 8 Ave Newark 4 NJ 2-4-7-10	Bry Kinescope Labs
Askania Regulator Co 240 E Ontario St Chicago 11 III 1	U S Dynamics Corp 1250 Columbus Ave	3518 Devon Ave Chicago 45 III 6 Buhl Optical Co
Bendix Aviation Corp 1104 Fisher Bldg	Boston 20 Mass 1-2-3-4-5-6-7-9-10-11 Westinghouse Electric Corp	1009 Reach Ave Pittsburgh 33 Pa 14
Detroit 2 Mich 1-2-3-4-7-8-10 Bendix Aviation Corp	P O Box 868 Pittsburgh 30 Pa 2-3-7-10	4814 Idaho St San Diego 16 Calif
Red Bank Div Eatontown NJ 7 Bendix Aviation Corp Red Bank Div	Westinghouse Electric Corp Box 284 Elmira NY 1-2-7-10	201 B Studio Hill 2-3-5-6-1-9-10-15
Semiconductor Dept 201 Westwood Ave	82—SERVICES, BROADCAST	Ryron Inc
Long Branch NJ 1-3-4-7-10 Bios Labs Inc	UL—SERVICES, DROADOASI	Camera Equipment Co
17 W 60 St New York 23 NY 1-2-3 Bogue Electric Mfg Co	AM program packages 1	315 W 43 St New York 36 NY Campus Film Productions
Iowa Ave Paterson 3 NJ 1-3-4-6-10-11	Audio design & service 2 Film, editing & titling 3	14 E 53 St New York NY Capital Film Service
Bomac Labs Inc Salem Rd Beverly Mass 1-3	Film, magnetic stripe 4	224 Abbott Rd E Lansing Mich 3-4-5-6-7-9-13-15-16-17-18-25
CBS-Hytron Div Columbia Broadcasting System 100 Endicott St	Film processing 5	Capitol Transcription Service
Danvers Mass 1-2-3-4-6-7-10 Clevite Transistor Products	Film studios 6 Film, TV	Washington 6 DC 15-16-17-18-21-25
241 Crescent St	Frequency measuring 8	Cavalier Productions Hyde Park NY
Clowes Ceramic Corp	Kinescoping 9	Centaur Studios
3711 Calhoun Ave Chattanooga 7 Tenn 3 Delco Radio Div General Motors Corp	Libraries, film	Hollywood 46 Calif 6-7-11-15-18-21 Centron Corp
Kokomo Ind 4-7-10 Delta Chemical Works	Libraries, record 12	1107 Mass St Lawrence Kan
23 W 60 St New York 23 NY 1-2-3	News services	Charter Oak Tele-Pictures 846 7 Ave New York 19 NY 6
Fansteel Metallurgical Corp 2200 Sheridan Rd N Chicago III 3	Optical repairs	Chertok TV Inc 1040 Las Palmas Ave
Federal Telecommunication Labs Div IT&T 500 Washington Ave Nutley NJ 10	Sound dubbing 16	Los Angeles 38 Calif
Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd	Sound effects	56 E Superior St Chicago 11 III
Clifton NJ 2-3	Sound studios	1501 Rroadway New York 30 N I
Fretco Inc 406 N Craig St Pittsburgh 13 Pa 2-4-6	Tower erection & maintenance 20	Cinecraft Productions 2515 Franklin Ave Cleveland 13 Ohio 6
Gahagan Inc Waterman Ave Esmond 17 RI 2	TV program packages	Cinegraphics Inc 5 E 57 St New York 22 NY
General Cement Mfg Co Div Textron Inc 400 S Wyman St Rockford III 1	TV special effects	Cinematic Developments 2125 32 Ave San Francisco 16 Calif 2-3-4-15
General Electric Co Ltd of England	TV slides 24	Cine-Video Productions Milford Conn 6
80 Shore Rd Port Washington NY 1-2-3-4-6-7	Transcriptions 25	Cleveland Productions 2103 Bellflower Blvd Long Beach 15 Calif 6
General Instrument Corp Automatic Mfg Div Div Gouveuner St Newark 4 NJ 1	ABC Film Syndication	Cuffman Film Co
General Transistor Corp 91-27 138 Pl Jamaica 35 NY 4-5-7-9-10	1501 Broadway New York 36 NY 21 Academy Film Productions	4519 Maple Ave Dallas Texas Colburn Lab G W Colburn Lab G W Colburn Lab G W
Hoffman Electronics Corp 3761 S Hill St Los Angeles 7 Calif 3	123 W Chestnut St Chicago 10 Ill 6 Acus Pictures Corp	Commercial Radio Monitoring Co
Hoffman Semiconductor Div Hoffman	165 W 46 St New York 36 NY 7 Affiliated Photographic Co	P O Box 7037 Kansas City 13 Mio
Electronics Corp 930 Pitner Ave Evanston Ill 3	21 W 45 St New York 36 NY 24 Alexander Film Co	1006 Olive St St Louis 1 Mo
Hughes Aircraft Co Florence & Teale Sts Culver City Calif 2-3	Alexander Film Bldg Colorado Springs Colo 6	101 2 St Stamford Conn
Hughes Aircraft Co Semiconductor Div	Alend'or Productions	CTN Film Productions 608 5 Ave New York 20 NY 6
Int'l Airport Station Los Angeles 45 Calif 2-3-4	607 N La Brea Ave L's Angeles Calif 6 Allen-Moore Productions	Dallons Labs 5066 Santa Monica Blvd 23
Hughes Products Hughes Aircraft Co 5340 W 104 St Int'l Airport Sta	7936 Santa Monica Blvd Hollywood 46 Calif 6	Los Angeles 29 Calif
Los Angeles 45 Calif 2-3-4 Intelex Systems Inc	Alpha Erection Corp 210 E Main St W Branch Iowa 20	6611 Santa Monica Blvd Los Angeles 38 Calif
22 Thames St New York 6 NY 2-3 International Rectifier Corp	Amenic Inc 2421 N Ramsey	Denson Electronics Corp P O Box 122 Rockville Conn 20
1521 E Grand Ave El Segundo Calif 2-3	Springfield Mo 6	Denhoure Studios Inc
International Resistance Co 401 N Broad St Philadelphia 8 Pa 1	American Communications Corp 280 Broadway New York 17 NY 2	Poston 15 Mass 15-16-17-18-21-24
Kemtron Electron Products Inc 14 Prince Pl Newburyport Mass 1-2-3	American Film Co 1329 Vine St Philadelphia 7 Pa 6	de Rochemont Associates Inc Louis 380 Madison Ave New York 17 NY 6-21
Lansdale Tube Co Div Philco Corp Church Rd Lansdale Pa 2-4-7-9-10	American Film Producers 1600 Broadway New York 19 NY 6	Doty Acoustical Electronic Labs 431 Broome St New York 13 NY 2
Microwave Associates Inc	Anderton Electronic Lab 129 E 1800 S St Bountiful Utah 2	Dougfair Corp
Burlington Mass 3 Motorola Inc Semiconductor Products Div	Animation Inc 8564 Melrose Ave Hollywood 46 Calif 6	666 N Robertson Blvd Los Angeles 46 Calif
5005 E McDowell Rd Phoenix Aria 4-7-10 National Aircraft Corp Electronics Div	Apple Frequency Measuring Service H L	Dudley TV Corp
3411 Tulare Ave Burbank Calif 4	Armstrong & Co J	Beverly Hills Calif
Nucleonic Products Co 1601 Grande Vista Ave	19 W 44 St New York NY Atlas Film Corp	Du Mont Labs Inc Allen B 760 Bloomfield Ave Clifton NJ 13
Los Angeles 23 Calif 1-2-3-6-7 Pacific Semiconductors Inc	1111 S Blvd Oak Park Ill 3-4-5-6-7-15-16-17-18 21-22-23-24	Eastman Kodak Co 343 State St Rochester 4 NY 4
10451 W Jefferson Blvd Culver City Calif 2-3	ATV Film Productions 35-01 Northern Blvd	Editorial Films Inc 10 E 40 St New York 16 NY 6
Philco Corp Govt & Industrial Div	Long Island City 1 NY 6	Eidson Electronic Co
4700 Wissahickon Ave Philadelphia 44 Pa 1-2-4-10	Audio-Master Corp 17 E 45 St	Electrical Tower Service Inc
Pye Canada Ltd 82 Northline Rd	New York 17 NY 1-10-11-12-17-21-25 Audio-Video Recording Co	325 S Washington St Peoria III 20 Electro Sound Corp
Toronto 16 Ontario Canada  Pye Telecommunications Ltd	730 5 Ave New York 19 NY 1-2-11-15-16-17-18-25	115 Halleck St   0 11 10 15 16 22
Newmarket Rd Cambridge England 1 Radio Corp of America Camden 2 NJ 1-2	Aztecca Films 1743 S Vermont Ave Los Angeles 6 Calif 6	EMC Recordings Corp
Radio Corp of America	Barnes & Reinecke 230 E Ohio St Chicago 11 III 2	806 E 7 St St Paul 6 Minn 1-2-11-15-16-17-18-25
415 S 5 St Harrison NJ 1-2-4-6-7	200 E Omo St Omeago II III	-

Federal Telefilms		McCadden Corp	Smith Inc W R
1051 Formosa Ave Hollywood Calif	6	1040 N Las Palmas Hollywood 38 Calif 6	117 4 Ave Pittsburgh 22 Pa
Felthousen Audio Service 17615 Ludlow St Granada Hills Calif	2	Melody Ranch Enterprises	Smith-Meeker Eng'g Co
Filmack Studios	-	6920 Sunset Blvd Hollywood 28 Calif 6 Michigan Electronics Inc	157 Chambers St New York 7 NY 2-18 Sonex Inc
1327 S Wabash Ave Chicago 5 Ill 3-5-6-7-15-	10.04	854 N Rockwell St	73 S State Rd Upper Darby Pa
Film Arts Productions	10-24	Chicago 22 Ill 15-16-18 Milner Productions	SoundSound Musters Inc
1032 N 6 St		3800 Liberty Hts Ave Baltimore 15 Md 6	165 W 46 St New York 36 NY Spaeth Sigmund
Milwaukee 3 Wisc 3-5-6-15-16-17- Film Associates	18-24	Minnesota Mining & Mfg Co	400 E 58 St New York 22 NY
4600 S Dixie Hgwy		900 Fauquier Ave St Paul 6 Minn 4 Morris Productions Nelson	Spaulding Products Co 550 W Barner St Frankfort Ind 20
Dayton 9 Ohio 3-5-6-7-9-12-15-16-1	17-18	11 E 48 St New York 17 NY 6	Standard Record Mfg Co
8451 Melrose Ave Los Angeles 46 Calif	6	Motion Picture Service	70 N San Gabriel Blvd Pasadena 8 Calif 17
rim Creations	U	125 Hyde St San Francisco 2 Calif 6	Sturm Studios 723 7 Ave New York 19 NY
16 E 40 St New York 16 NY Fitz & Assoc	6	Motion Pictures for Industry 2543 Kelton Ave Los Angeles 64 Calif 6	Sun Dial Films
6327 Santa Monica Blvd		MP Engineering Co	341 E 43 St New York NY Sutherland Productions J
Hollywood 28 Calif	6	Fairfield 3 Conn 2-12-15 Musicolor Inc	201 N Occidental Blvd
Foto-Video Labs Inc 25 Amity St Little Falls NJ	24	333 N Michigan Ave	Los Angeles 26 Calif
Fotovox Inc	24	Chicago 1 III 4-7-10-11-23	Tarc Electronics Inc _ 48 Urban Ave Westbury LI NY 2-23
1447 Union Ave Memphis 4 Tenn Frederick Recording Co	6	Myerberg Productions M 234 W 44 St New York 36 NY 6	Technisonic Studios
101 Townsend St Midland Mich 15-1	6-25	234 W 44 St New York 36 NY 6 National Cine Equipment Inc	1201 Brentwood Blvd St Louis 17 Mo
r-K Machine Works Inc	0-20	209 W 48 St New York 36 NY 14	Techtron Electronics Ltd 583 Gramatan Ave Mt Vernon NY 2-14-16
Electronic & X-Ray Div 26-12 Borough Pl Woodside 77 NY	0	Nat'l Screen Service 509 Madison Ave New York 22 NY	Telecast Films
Galahad Productions	8	Neal Productions S	247 W 46 St New York 36 NY Telechrome Mfg Corp
221 W 26 St New York 1 NY Gates Radio Co	6	475 5 Ave New York 17 NY 6	28 Ranick Dr Amityville LI NY 23
123 Hampshire St Quincy III	2	Northwest Motion Pictures 1716 30 Ave W Seattle 99 Wash 6	Telecine Film Studios
Gibbs & Co J E	2	1716 30 Ave W Seattle 99 Wash 6 Oberline Inc	100 S Northwest Hwy Park Ridge III 6 Tele Communications Inc
1270 6 Ave New York NY Gold Productions Mel	6	P O Box 921	41 E 42 St New York NY 1-2-25
1639 Broadway New York 19 NY	6	Beverly Hills Calif 1-2-15-21 Pacific Optical Corp	Telemated Cartoons 70 E 45 St New York 17 NY 3-6-23-24
Greene Film Productions Ren	U	120 Glasgow Ave Inglewood 1 Calif 14	70 E 45 St New York 17 NY 3-6-23-24 Telepix Corp
1650 Broadway New York 19 NY Guild Films	6	Pacific Universal Products Corp	1515 N Western Ave
460 Park Ave New York 22 NY	6	168 Vista Ave Pasadena 8 Calif 14 Packaged Programs Inc	Hollywood 27 Calif 6-7-15-16-18 Telestudios
Hallmark Productions		634 Penn Ave 1-3-5-6-7-9-10-13-15	1481 Broadway New York 36 NY 6
9100 Sunset Blvd Los Angeles 46 Calif Hammer Milton	6	634 Penn Ave 1-3-5-6-7-9-10-13-15 Pittsburgh 22 Pa 16-17-18-21-24-25	Theodore Productions
1145 19 St N W Washington D C	6	Pathe Pictures 33 W 60 St New York 23 NY 6	730 5 Ave New York 19 NY Tower Builders Co
Handel Film Corp 6926 Melrose Ave Hollywood 38 Calif		33 W 60 St New York 23 NY Peerless Film Processing Corp	Box 356 Angola Ind 20
Harriscope Inc	6	165 W 46 St New York 36 NY 5	Transfilm Inc 35 W 45 St
355 N Beverly Dr Beverly Hills Calif	6	Pentron Corp 777 S Tripp Ave Chicago 24 Ill 11	New York 36 NY 3-4-5-6-7-15-16-17-18-24
Hartley Productions Inc 339 E 48 St		Pheelan Productions R A	Trans-Lux Corp
New York 17 NV 6 7 15 1c 10 9	1-24	550 5 Ave New York 36 NY 6	625 Madison Ave New York 22 NY 23-24 TV Adventure Film
Houston Fearless Div Color Corp of Americ 11801 W Olympic Blyd	ca	Phelps Precision Lab 4232 Scott Terrace	9336 W Washington Blyd Culver City Calif 6
Los Angeles 64 Calif	5	Minneapolis 16 Minn 8	TV Programs of America 488 Madison Ave New York 22 NY 6
Imperial World Films	U	Phillips Assoc R J	TV Specialty Co
12 E Delaware Pl Chicago Ill Impro Inc	6	130 W 57 St New York NY Pilot Productions	350 W 31 St New York 1 NY 9-23
7324 Santa Monica Blvd		6419 N Calif Ave Chicago 45 Ill 6	TV Unlimited 17 E 45 St New York 17 NY 6
Hollywood 46 Calif Information Productions	6	Polaris Pictures	United World Films Inc
5 E 57 St New York 22 NY	6	5859 W 3 St Los Angeles 36 Calif Premier Film & Recording 6	1445 Park Ave New York 29 NY 10 U S Recording Co
Int'l News 235 E 45 St New York 17 NY	6	3033 Locust St St Louis 3 Mo 6-15	1121 Vermont Ave Washington 5 DC 15-18-25
Ivanhoe Electronic Labs 14238 S La Salle St Chicago 27 III	D	Producers Film Studios	Van Pragg Productions
Jackson Productions Riley	8	540 Lake Shore Dr Chicago III 6 Pulse Techniques Inc	1600 Broadway New York 19 NY 6 Video Pictures
6253 Hollywood Blvd Hollywood 28 Calif		1411 Palisade Ave W Englewood NJ 2	500 5 Ave New York 36 NY 6
Jam Handy	6	Pyramid Productions 1 E 57 St New York NY 6	Vidicam Pictures 210 E 5 Ave New York NY 6
2821 E Grand Blvd Detroit 11 Mich	6	Q E D Productions	Vision Films
Jamieson Film Co 3825 Bryan St Dallas 4 Texas	c	24 W 45 St New York NY 6	520 Royal St New Orleans 16 La 6
Jewel Radio & TV Productions	6	Radio & TV Packagers 11 E 40 St New York NY 1-21	Vitro Corp of America 261 Madison Ave New York 16 NY 2
540 N Michigan Ave Chicago 11 Ill Kane Productions Al	6	Radio Corp of America	Vogue Film Productions
1411 Walnut St Philadalphia 2 D.	6	Camden 2 NJ	Bowman Field Louisville 5 Ky Vogue Wright Studios
Karlen Productions B E	U	Rainbow Pictures 5711 S Dixie Hwy Miami 43 Fla 6	469 E Ohio St Chicago 11 III 6
270 Park Ave New York NY Kay Electric Co	6	Rarig Motion Picture Co	Volcano Productions
14 Maple Ave Pine Brook NJ	17	5510 University Way Seattle 5 Wash 6	1040 N Las Palmas Hollywood 38 Calif 6 Washington Video Productions
Ken-del Productions 920 King St 2-3-6-7-10		Recorded Publications Labs 1558 Pierce Ave	1536 Conn Ave NW Washington DC 6
920 King St 2-3-6-7-10 Wilmington 1 Dela 12-15-16-17-18	-11 -25	Camden 5 NJ 1-15-16-17-18-25	West Coast Sound Studios 510 W 57 St New York 19 NY 6
Key Productions	-20	Reed TV Roland 650 Bronson Ave Hollywood 4 Calif 6	Western Electro Acoustic Lab Inc
527 Madison Ave New York 22 NY	6	Reeves Sounderaft Corp	11789 San Vicente Blvd
Kline Productions F W 1426 N Serrano Ave Hollywood 27 Calif	6	10 E 52 St New York 22 NY 4-19	Los Angeles 49 Calif 2 Westlab Electronics
Aling Film Productions		Riviera Productions 1715 Via El Prado Redondo Beach Calif 6	2475 Central Ave Yonkers NY 2
1058 W Washington Blvd Chicago 7 Ill Knickerbocker Productions	6	RKO Pathe	West Michigan Sound Co
1600 Broadway New York 19 NY	6	1270 6 Ave New York 20 NY 6	1932 Peck St Muskegon Mich 2-15 Westrex Corp
Lakeside TV Co 1465 Broadway New York 36 NY	0	Roberts Productions C 321 S Beverly Dr Beverly Hills Calif 6	111 8 Ave New York 11 NY 2-6-15-16-18
ance Productions	6	Robinson Recording Labs 6	Wilding-Henderson
315 W 57 St New York 19 NY	6	35 S 9 St Philadelphia 7 Pa 15-18-25	1345 Argyle St Chicago 40 III 6 Willard Pictures Inc
angevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY		Rolab Studies	45 W 45 St New York 36 NY 3-4-6-7-15-21-24
as-Lab Inc	1	Walnut Tree Hill Sandy Hook Conn 3-6-7-15-18-23-24-25	Williams Brown & Earle Inc
220 W Mt Olivet Lane Baltimore 29 Md	15	Rome Cable Corp	904 Chestnut St Philadelphia 7 Pa 3-5-7-24 Wind Turbine Co
Laufman Film Productions 221 N La Salle St Chicago 1 III	c	Ridge St Rome NY	E Market St & PRR W Chester Pa 20
.odge Productions Arthur	6	Roquemore Films 44 Mt Vernon Blvd Hamburg NY 6	Wolff Studios Inc Raphael G
21 W 46 St New York 36 NY	6	Roush Productions L	5631 Hollywood Blvd
Magnasync Mfg Co 5546 Satsuma Ave N Hollywood Calif	2	35 W 53 St New York 19 NY 6	Hollywood 28 Calif 6-7-10-21-24 Ziv TV Programs
Magnecord Div Midwestern Instruments	2	Science Pictures Inc 5 E 57 St New York 22 NY 3-6-7-15-21-24	488 Madison Ave New York 22 NY 6
Inc 1101 S Kilbourn Ave		Scott Recording Lah	Zoomar Inc 55 Sea Cliff Ave Glen Cove NY 14
Chicago 24 Ill Magnetic Sound Inc	11	Municipal Airport	
4803 1/2 Grand Ave Des Moines 12 Iowa	15	Tuscaloosa Ala 15-18 Screencraft Pictures	83—SERVICES, INDUSTRIAL
Magne-Tronics Inc		15 W 44 St New York 36 NY 6	
49 W 45 St New York NY Marathon TV Newsreel	11	Sellers Co	Aerial surveys 1
10 E 49 St New York 17 NY	6	2102 Jackson St Dallas 1 Tex 15-16-17-18-25	Aircraft maintenance 2
laxwell Assoc Robt		Shrader Sound Inc	Assembly
5746 Sunset Blvd Hollywood 28 Calif	6	2803 M St N W Washington 7 DC 2-18	Brazing 4

	_		B & H Instrument Co
Carrier current maintenance	5	Alwac Corp 13040 S Cerise Hawthorne Calif 6	3479 W Vickery Blvd Ft Worth , 1ex
Computer service	6	Amerac Inc	Ri elow Metallizing Chemicals Co
Construction	7	116 Topsfield Rd Wenham Mass 21	98 Bigelow St Quincy 69 Mass
Electrical testing	8	American Electronic Laboratories	Biggs Co Carl H 2255 Barry Ave Los Angeles 64 Calif 10
Electronic equipment repairs		121 N 7 St Philadelphia 6 Pa 8-23	Diving Com
		American Gas Furnace Co	Biwax Corp 3445 Howard St Skokie III
Encapsulation		140 Spring St Elizabeth 1 NJ 4-15 American Lava Corp Subs Minn Mining & Mfg	D I Flactronics Borg-Warner Corp
Engraving & profiling		Cherokee Blvd & Mfrs Rd	3300 Newport Ave Santa Ana Calif 29
Fabrication, metal parts		Chattanooga 5 Tenn 13-16	Blaco Mfg Co
Fabrication, non-metal parts	13	American Machine & Foundry Co	6541 Euclid Ave Cleveland 3 Ohio 12-30
Frequency calibration	14	llefense Products Group 1101 N Royal St Alexandria Va 12-15-20-21-23-25	Blaine Electronetics Inc 14757 Keswick St Van Nuys Calif 10-12-13
Heat treating		Alexandria Va 12-15-20-21-23-25 American Machine & Foundry Co	Bodnar Industries
Hermetic sealing		Electronics Div 1085 Commonwealth Ave	238 Huguenot St New Rochelle NY 32
		Boston 15 Mass 23	Bolling Industries Inc
Inspection		Amphenol Electronics Corp	1117 N Main Ave
Marine maintenance	10	1830 S 54 Ave Chicago 50 Ill 3	P O Box 981 Scranton 2 Pa 3-11-20-25
Marking	17	AMP Inc Chemical Dielectrics Div 155 Park St Elizabethtown Pa 10	Boonton Molding Co 316 Myrtle Ave Boonton NJ 10
Metal finishing	20	Ampley Div Chrysler Corp	Brigge Associates
Microwave calibrating		P O Box 2718 Detroit 31 Mich 12	10 DeKalb St Norristown Pa 3-7-8-9-23-25-32
Microwave relay maintenance	22	Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 3-8-12-13-31	Brilhart Plastics Corp
Military systems engineering			Old Country Rd Mineola NY 18
Optical repairs		Apple Frequency Measuring Service H L 409 Union Ave Burlington NC 14	Bron-Shoe Co
Packaging	25	Applegate & C0 C J	269 E Broad St Columbus 15 Ohio 26-27 Brooks & Perkins Inc
Plating, metal on plastic	26	1840 24 St Boulder Colo 10-16-25	1950 W Fort St Detroit 16 Mich 3-12-20-35
		A R F Products Inc	Brubaker Electronics Inc
Plating, precious metal	21	7627 Lake St River Forest III 12-13 Arkay Co 605 I Ave S W Rochester Minn 11-12	3652 Eastham Dr Culver City Calif 29
Police, fire, municipal mainte-	20	Ault Vingig CO	Buhl Optical Co
nance		431 W Tabor Rd Philadelphia 20 Pa 8-14-21	1009 Beech Ave Pittsburgh 33 Pa 26 Burnett Radio Lab W W L
Qualification testing		Arlin Products Inc	4814 Idaho St San Diego 16 Calif 9-14
Soldering	30	13541 Auburn Ave Detroit 23 Mich	Burroughs Corp
Test equipment repairs	31	Art Decorating Co 4201 Hudson Blvd N Bergen NJ 19	6071 2 Ave Detroit 32 Mich 6
Testing	32	Arvey Corp Fibre Forming Div	Burroughs Corp Electronic Instruments Div
Tinning, hot dipped		202 Franklin St Olean NY	1209 Vine St Philadelphia 7 Pa 6-32
Treating, fungus & moisture		Associated Testing Labs	Buss-Clement-Doughten & Associates 201 B Studio Hill Chester Springs Pa 9
proof	34	409 Clinton Rd Caldwell NJ 8-17-29-32 Atlas E-E Corp	Calbest Electronics Co
Waldian	35	15 Drawnert St Woburn Mass 12-15	4801 Exposition Blvd
Welding	33	Atlas Mineral Products Co Mertztown Pa 13	Los Angeles 16 Calif 9-30-31-32
A A Metal Products Inc		Auburn Mfg Co	Calif Magnetic Control Corp
154 Elliot St Brattleboro Vt	35	Stack St Middletown Com	11922 Valerio S <sup>*</sup> N Hollywood Calif California Electronic Services
Abrams Instrument Corp		Audio Electronics 15858 35 Ave N E Seattle 55 Wash 5-9	P O Box 2 Woodland Hills Calif 8-29-32
606 E Shiawassee St Lansing 1 Mich	1-32	Applin Co Special Devices Div	Camera Equipment Co
Accurate Electronics Corp 169 S Abbe Rd W Elyria Ohio 12	-13-19	76 9 Ave New York II NY	315 W 43 St New York 36 NY 22-24
Ackerman Engravers		Autel Electronics Co	Canadian Aviation Electronics Ltd
458 Broadway New York 13 NY	11	PO Box 225 Linden NJ Automatic Methods Inc	6214 Cote de Liesse Rd St Laurent Quebec Canada
Acme Scientific Co	00.04	act W Crond St	St Laurent Quebec Canada Canadian Radium & Uranium Corp
1450 W Randolph St Chicago 7 Ill	20-24	Elizabeth NJ 3-4-12-17-19-30-35	630 5 Ave New York 20 NY 19
Acme Wire Co 1255 Dixwell Ave New Haven 14 Conn	10	· · · · · iam lua	Cavitron Electron Oscillator Co
Acoustica Associates		212 Worcester St Wellesley Hills 82 Mass 23	Div Short Wave Plastic Forming 355 N
Shore Rd Glenwood Landing LI NY	20	Aviation Electronic Service	Newport Blvd Newport Beach Calif 9
Acromark Co	11 10	N 12 St Wheeling III Avion Div ACP Industries Inc	C B C Electronics Co 2601 N Howard St Philadelphia 33 Pa 3
443 Morrell St Elizabeth 4 NJ	11-19	11 Park Pl Paramus NJ 10	Century Electronics Co
Adler Electronics Inc 1 LeFevre Lane New Rochelle NY	14-23	Avionies Ltd	34 Oleander St Cocoa Fla 3-23
Advanced Electronics Inc		D O Dov. 200 2-3-9-10-11	Century Plating Co
94 Silas Deane Hwy	10.10	Niagara-on-the-Lake Ont Canada 25-30-31	229 Ferris Ave White Plains NY 27
240,610 2211	-12-13	Babcock Radio Eng'g Inc 7942 Woodley Ave Van Nuys Calif 23	Chemalloy Electronics Corp
Aero Electronics Co 1512 N Wells St Chicago 10 III	23	Raird-Atomic Inc	Gillespie Airport Santee Calif 30-32-35 Chemo-Textiles Inc
Aeroflex Labs		33 University Rd Cambridge 38 Mass 24	P O Box 169 W Warwick RI 34
34-06 Skillman Ave	1.00	Raker & Co	Chester Morton Electronics Corp
Long Island City 1 NY	1-29	113 ASTOF St Newark 2 110	10 St & Morton Ave Chester Pa 3-30
Aerolite Electronics Corp 507 26 St Union City NJ 3-10-12-13	-30-34	Baldwin Products Corp 432 E Valley Blvd San Gabriel Calif 35	Chicago Aerial Industries Inc
Aerophysics Development Corp		Barber & Howard Co	1980 N Hawthorne Ave Melrose Park Ill 1-23 Chicago Industrial Instrument Co
Sub Curtiss-Wright Corp P O Box 68	9	Fast Ave Westerly RI	865 N Sangamon St Chicago 22 Ill 9-31
Santa Barbara Calif	23	Barker & Williamson Inc 3-4-7-8-9-10-12	Chicago Screw Co Div Standard Screw Co
Aerotest Laboratories		Canal & Beaver Sts 13-14-16-19-20-20	2701 Washington Blvd Bellwood Ill 20
129-11 18 Ave College Point 56 NY 8-1	7-29-32	Bristol Pa 25-26-27-29-31-32-34-39 Barkley & Dexter Laboratories	Christiansen Co CB 164 Pennington St
Ainslie Corp		50 Frankfort St	Newark 5 NJ 3-11-12-13-15-25
312 Quincy Ave Quincy 69 Mass	12	Fitchburg Mass 3-8-9-23-25-32	Cir-Pak Co
Airborne Instruments Lab Modac Div 864 Franklin Ave Thornwood NY	6	Barlowe Television	32-44 Francis Lewis Blvd Flushing 58 NY 10
Aircom Inc	"	402 N Wantagh Ave Bethpage NY	Clegg Labs Div Clegg Inc Ridgedale Ave Morristown NJ 7-8-23-31
1209 E Grand St Elizabeth NJ 3-4-1	2-30-35	Barnes & Reinecke 230 E Ohio St Chicago 11 Ill 8-23-32	Cohan Epner Co
Aircraft & Electronic Specialties	3-9	Bart Mfg Corp	142 W 14 St New York 11 NY 20
22 S Green St Brownsburg Ind Airflo Instrument Co	0-0	227 Main St Belleville NJ 26-27	Coil Winders Inc
53 Addison Rd Glastonbury Conn	3-4-35	Barton Electronics Inc	New York Ave Westbury LI NY 10-16 Collins Radio Co
Airflyte Electronics Co		1000 Farmington Ave W Hartford 7 Conn 3-7	855 35 St NE Cedar Rapids Iowa 23
535 Avenue A Bayonne NJ	3-10	W Hartford 7 Conn Belfab Corp	Colonial Alloys Co
Air Transport Mfg Co		11 Ramah Circle Agawam Mass 35	Ridge Ave & Crawford St Philadelphia 29 Pa
1114 N Sycamore Ave Los Angeles 38 Calif	3-12-35	Bell Aircraft Corp	Philadelphia 29 Pa 20 Commercial Radio Monitoring Co
Alcar Instruments Inc		P O Box 1 Buffalo 5 NY 2-8-9	P O Box 7037 Kansas City 13 Mo 14
17 Industrial Ave Little Ferry N.J	32	Belock Instrument Corp 111-01 14 Ave	Community Engig Corp
Alden Products Co 123A N Main St Brockton Mass	3	College Point 56 NY 3-6-8-18-23-29	Box 824 State College Pa 3-8-9
Alfax Paper & Eng'g Co	0	Bemis Bro Bag Co	Computing Devices of Canada Ltd P O Box 508 Ottawa Ont Canada
Washington St Westboro Mass	3-30	408 Pine St St Louis 2 Mo 25	Conn Marine Instrument Co
Allied Eng'g & Production Corp	0.0	Bendix Aviation Corp Bendix Radio Div	Essex Conn 9-18-28
2421 Blanding Ave Alameda Calif	30	East Joppa Rd Towson 4 Md 23 Bendix Aviation Corp Pacific Div	Conn Telephone & Electric Corp
Allied Engraving & Stamping Co 17 Elm St Buffalo 3 NY 11-1	2-13-19	11600 Sherman Way N Hollywood Calif 23	70 Brittania St Meriden Conn 3-23-34 Conrad & Moser
Allied Fabricating Corp		Bennett Mfg Co	2 Borden Ave Long Island City 1 NY 12-35
1538 N Clybourn Ave Chicago 10 Ill	12-35	Railroad St Alden NY 12	Consolidated Productions Inc
Allmetal Screw Products Co	19 15	Berkshire Labs	Broward Int'l Airport
821 Stewart Ave Garden City NY Alloy Metalsmiths Inc	12-15	586 Bank Village Greenville NY 17-32	Ft Lauderdale Fla 8-9-23
89 Commerce Rd Cedar Grove NJ	12-35	Bernard Franklin Co	Continental-Diamond Fibre Corp
Aloe Scientific		4155 E Hedley St Philadelphia 37 Pa 12-35	Newark Del Controlled Atmosphere Enclosures Corp
5655 Kingsbury Blvd St Louis 12 Mo	24	Bernco Engineering Corp	230-11 141 Ave
Alpha Erection Corp 210 E Main St W Branch Iowa	7-17-22	2320 S Tibbs Ave Indianapolis 41 Ind 10	Springfield Gardens 13 LI NY 13
Alto Scientific Co	. 1,-01	Bestcraft Products Co	Cook Electric Co 2700 Southport Ave Chicago 14 III 8-29-32
855 Commercial St Palo Alto Calif 3	8-23-27	626 Broadway New York 12 NY 3-12-13-25	2700 Southport Ave Chicago 14 III 8-29-32

Corbin Corp
5419 56 Pl Riverdale Md 23 Cossor (Canada) Ltd
301 Windsor St Halifax Nova Scotia Canada 8-9-23-31
90 Holten St Danvers Mass
3701 Ravenswood Ave
Crystalx-Westlake Corp Lenni kd Lenni Mins Pa Daco Instrument Co
Tillary & Prince Sts Brooklyn 1 NY 12 Dale Products Inc
Columbus Nebr
Dallons Labs 5066 Santa Monica Blvd
Los Angeles 29 Calif Daven Co
Route 10 Livingston NJ 10-16 Davenport Mfg Co
1713 N Ashland Ave Chicago 22 111 2-3-8 Daystrom Instrument Div Daystrom Inc
Dayton Aviation Padia 8 75-
R R 3 Troy Ohio Decatur Electronic Industries Corp
203 Orinoco Dr Brightwaters LI NY Designers for Industry
Dietz Co S J 9 E Wesley St S Hackensack NJ 9
333 W 24 Pl Chicago 16 III
780 S Arroyo Phys Postal Corp
67 Lawrence Ave W Orange NI 2 00 00
4241 Fulton Pkwy Cleveland 9 Ohio Devco Eng'g Inc P O Box 387 Caldwell NJ 12-13 DeWitt Development
3008 W 127 St Divo Taland 711
35-10 36 Ave Long Jelevil City a system
Dittmore-Freimuth Corp 2517 E Norwich St
Milwaukee 7 Wis 3-4-12-13-30 Donnelley Mfg Co
580 Winter St
Waltham 54 Mass Doty Acoustical Electonic Labs 431 Broome St
New York 13 NY 0 19 19 09 00 04
Douglas Instrument Labs
Dow Chemical Co
Dow-Key Co
Downing Crystal Co 191 Shaffer Ave
Westminster Md 3-12-15-16-17 Dunlap Electronics
764 9 St
Des Moines Iowa 3-4-7-12-13-29-30-35 Dunn Eng'g Associates 186 Massachusetts Ave
Cambridge 39 Mass 3-8-13-14-23-25-32 Duro Specialty Co
811 Boston St Lynn Mass 19
Dwyer Eng'g Co Pine St Ext Nashua NH 3-10-23-25 Dynalysis Development Labs Inc
Los Angeles 25 Calif Eastern Precision Resistor Corp
Los Angeles 25 Calif 6 Eastern Precision Resistor Corp 675 Barbey St Brooklyn 7 NY 25 Eastern Specialty Co
Fide Plants 2
Eidson Electronic Co 1902 N 3 St Temple Tex 14-28 Eisler Eng'g Co
750 S 13 St Newark 3 NJ 9-12-35
Eison Electronic Co 1902 N 3 St Temple Tex 14-28 Eisler Eng'g Co 750 S 13 St Newark 3 NJ 9-12-35 Electrical Testing Labs Inc 2 East End Ave New York 21 NY 8-17-32-39 Electric Coil Co
4911 S Marshfield Ave Chicago 9 III 3-30
Electrochemical Industries Inc 35 Armory St Worcester 3 Mass 26-27
Electro-Fabricators 44 Beacon Pl Pasadena Calif 12
Electronic Assembly Co 5 Prescott St
Roxbury 19 Mass 3-7-10-25-30-33 Electronic Associates Inc
Long Branch NJ Electronic Brazing Co
140 Glenridge Ave Montclair NJ 4-30 Electronic Parts Mfg Co
508 25 St Union City NJ 12 Electro-Physics Co
287 Broadway New York 7 NY 3-8-9-32 Electro Sound Corp
115 Halleck St Boston 15 Mass 5-9 Ellanar Chemical Co
2308 Oakton St Evanston Ill 10
Elm Labs 10 Washington Ave
Hastings-onHudson NY 3-11-12-13 El-Rad Mfg Co
2800 W Cullom Ave Chicago 18 III 3-7 Elzee Metal Products Co
2800 W Cullom Ave Chicago 18 III 3-7 Elzee Metal Products Co 775 39 St Brooklyn 32 NY 3-4-12-13-20-30-35

Emerson & Cuming Inc 869 Washington St Canton 1 Mass	10
Emerson Plastics Corp Seabury Ave & Butler Pl Bronx 61	NY 13
Emerson-Sack-Warner Corp	
85 Washington St Somerville 43 Mas Empire Electronics Co	
166 River St Paterson 1 NJ Endeco Eng'g Development Co of Los	3-30 Angeles
922 E Angheim St Wilmington Cali	if 18
Engelhardt Eng'g Co 38 Burritt Ave S Norwalk Conn Engineered Electronics Co	9-31
506 E 1 St Santa Ana Calif Engineering Associates	3-25
434 Patterson Rd Dayton 9 Ohio	9-21-31
Epoxy Products Inc Div Joseph Waldman & Sons	
Div Joseph Waldman & Sons 133 Coit St Irvington NJ Equipment & Service Co 6815 Oriole Dr Dallas 7 Tex	10-16
6815 Oriole Dr Dallas 7 Tex Erdco Eng'g Corp Official & Westgate	9-31-31 e
Erie Resistor Corp	28
644 W 12 St Erie 6 Pa Erwood Inc	•
1770 W Berteau Ave	-12-13-35
Ewald Instruments	
Route 7E Kent Conn Falstrom Co	35
Farnsworth Electronics Co Div IT&T	-20-25-35
3702 E Pontiac St Ft Wayne Ind Fecker Inc J W	23
6592 Hamilton Ave Pittsburgh 6 Pa Federal Cable Div Royal Electric Cor 95 Grand Ave Pawtucket RI	23-24
Federal Machine Co	
807 Garfield Ave Jersey City 5 NJ Federal Telephone & Radio Co Div IT	3-12-35
100 Kingsland Rd Clifton NJ Feiner & Sons P	23
	12-13
17615 Ludlow St Granada Hills Cali Fidelity Amplifier Co	f 9
703 Willow St	
ritton Co	-17-30-33
131-15 Fowler Ave Flushing 55 NY Filtron Co	29
10023 W Jefferson Blvd Culver City Calif	29
First Electronics Corp 117 Blue Hill Ave Boston 19 Mass	8.10.10
109 N Camac St Philadelphia 7 Pa	11-13
Fisher Research Lab 1961 University Ave Palo Alto Calif	
Flexonics Corp 1315 S 3 Ave Maywood III	
3609 Filhart St Dhillian I. D	12
FluiDyne Eng'g Corp 425 N 7 St Minneapolis 6 Minn Fluorocarbon Products Inc	25
Fluorocarbon Products Inc	23-32
Div U S Gasket Co 602 N 10 St Camden 1 NJ Formica Matal Products C	26-34
Formica Metal Products Co Corporation Way Medford 55 Mass Freed Transformer Co 1718-36 Weirfield St Brooklyn 27 N Frenchtown Porcelain Co	12-13-35
rreed Transformer Co _ 1718-36 Weirfield St Brooklyn 27 N	Y 10
M tole 1 4 m	4-16
Murrhead Ave Trenton 9 NJ Frequency Standards Inc P O Box 504 Asbury Park NJ Fretco Inc 406 N Craig St Pittsburgh 13 Pa F-R Machine Works Inc	14-21
Fretco Inc 406 N Craig St. Pittsburgh 13 Pa	3
F-R Machine Works Inc	,
400 N Craig St Pittsburgh 13 Pa F-R Machine Works Inc Electronic & X-Ray Div 26-12 Borough P! Woodside 77 NY Gar Precision Parts Inc 703 Pacific St Stamford Conn Cavitt Wire & Cable Co Central St Brookfield Mars	21
703 Pacific St Stamford Conn	12
Central St Brookfield Mass	3
Gemex Corp 1200 Commerce Ave Union NJ General American Transportation Corp 135 S LaSalle St Chicago 90 Ill General Bronze Corp	4-12-30
General American Transportation Corp 135 S LaSalle St Chicago 90 Ill	26
General Bronze Corp 711 Stewart Ave Garden City NY 3-	
General Cement Mfg Co Div Toutum In	12-21-35
General Components Inc.	25
225 E 144 St Bronx 51 NY General Findings & Supply Co	12-13
Industrial Div	. 10 05
Leach & Garner Bldg Attleboro Mass General Kinetics Inc 555 23 St S Arlington 2 Vo	
555 23 St S Arlington 2 Va General Metal Products Co	6-23
1010 Centre St Easton Pa General Resistance Inc	12
General Resistance Inc 577 E 156 St New York 55 NY General Testing Labs 227 W Chestnut Ave Monroyic Colif	10
227 W Chestnut Ave Monrovia Calif	8-29-32
Geotechnical Corp 3712 Hagger Dr Dallas 9 Tex	9-31
3712 Hagger Dr Dallas 9 Tex Giannini & Co G M 918 E Green St Pasadena Calif	23

Gilfillan Bros	
1815 Venice Blvd Los Angeles 6 Cali	f 2:
Glass & Bro Harry H 10 Van Cortlandt Ave E	
	2-13-19
Gleason-Avery Inc 45 Aurelius Ave Auburn NY	
Globe Electrical Mfg Co 1729 W 134 St Gardena Calif	13
Godfrey Mfg Co	
1726 N Orchard St Chicago 14 Ill 3-8-1	7-30-3
Golden Co 1054 38 St Brooklyn 19 NY	12
Gordon Enterprises 5362 N Cahuenga Blvd	12
5362 N Cahuenga Blvd N Hollywood Calif	2
Gorrell & Gorrell	3-12-23
Goslin Electric & Mfg Co	
2921 W Olive Ave Burbank Calif 3-8-1	0-29-32
Gould Corp Jerome F 200 Stewart Ave Brooklyn 37 NY	2
CDC Instrument Co	
811 Boylston St Boston 16 Mass Greer Hydraulics Inc NY 1nt'l Airport Jamaica 30 NY 3- Gries Reproducer Corp 125 Beechwood Ave New Rochelle NY	0-2
NY Int'l Airport Jamaica 30 NY 3- Gries Reproducer Corp	4-12-13
125 Beechwood Ave New Rochelle NY	12-13
Griffin Co John 2157 James Ave St Paul 5 Minn Guild Electronics Inc 388 Broadway New York 13 NY	11-19
388 Broadway New York 13 NY	9
Gulton Industries Inc	23
Hallamore Electronics Co	9.0
Haller Raymond & Brown	23
Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif Haller Raymond & Brown 124 N Atherton St State College Pa Hallett Mfg Co 1601 W Florence	23
1601 W Florence	2-13-30
Hallierafters Co	
4401 W 5 Ave Chicago 24 III Hamilton Watch Co Allied Products Di Columbia Ave Lancaster Pa 3-11-1	v
Columbia Ave Lancaster Pa 3-11-1 Hancock Electronics Corp	2-13-15
2553 Middlefield Rd	23
Redwood City Calif Hanson-Gorrill-Brian	
85 Hazel St Glen Cove NY Harper-Leader Inc	23
Harper-Leader Inc 1046 S Main St Waterbury 20 Conn Hauman Instruments Co	20-27
70 Coolidge Hill Rd	3-7-30
Watertown 72 Mass Heinrich Co Carl	
711 Concord Ave Cambridge 38 Mass Heldor Mfg Corp	12-13
238 Lewis St Paterson NJ 3-4 Helko Products Co	4-12-16
243 W 55 St New York 19 NY Hermes Plastics Inc	4-12-16 11
Helko Products Co 243 W 55 St New York 19 NY Hermes Plastics Inc 13 University Pl New York 13 NY Highland Eng's Co	
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Helko Products Co 243 W 55 St New York 19 NY Hermes Plastics Inc 13 University Pl New York 13 NY Highland Eng's Co 90 Magnolia St Westbury NY Hobart Bros Hobart Square E Troy 3 Oh Hoover Electronics Co 3640 Woodland Ave Baltimore 7 Md Houghton Laboratories Inc	11 11 3-16-30 nio 35 8-23
Helko Products Co 243 W 55 St New York 19 NY Hermes Plastics Inc 13 University Pl New York 13 NY Highland Eng's Co 90 Magnolia St Westbury NY Hobart Bros Hobart Square E Troy 3 Oh Hoover Electronics Co 3640 Woodland Ave Baltimore 7 Md Houghton Laboratories Inc	11 11 3-16-30 nio 35 8-23
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Helko Products Co 243 W 55 St New York 19 NY Hermes Plastics Inc 13 University Pl New York 13 NY Highland Eng'g Co 90 Magnolia St Westbury NY Hobart Bros Hobart Square E Troy 3 OF Hoover Electronics Co 3640 Woodland Ave Baltimore 7 Md Houghton Laboratories Inc 322 Houghton Ave Olean NY Houston Fearless Div Color Corp of Amo 11801 W Olympic Blvd Los Angeles 64 Calif Hull Corp 1941 Woodland Rd Abington Hycon Mfg Co 707 S Raymond Ave Pasadena Calif Ideal-Aerosmith Inc 12909 S Cerise Ave Hawthorne Calif Impact-O-Graph Corp 1900 Euclid Ave Cleveland 15 Ohio Industrial Electronic Engineers 3973 Lankershim Blvd N Hollywood Calif Industrial Electronics Inc 8060 Wheeler St Detroit 10 Mich Industrial Engravers Inc 2212 McDonald Ave Brooklyn 23 NY Industrial Test Equipment Co 55 E 11 St New York 3 NY Inland Electronics Corp 500 Rathbone Ave Aurora III Instrumentation Associates	111 111 111 111 111 111 111 111 111 11
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Helko Products Co 243 W 55 St New York 19 NY Hermes Plastics Inc 13 University Pl New York 13 NY Highland Eng'g Co 90 Magnolia St Westbury NY Hobart Bros Hobart Square E Troy 3 Of Hoover Electronics Co 3640 Woodland Ave Baltimore 7 Md Houghton Laboratories Inc 322 Houghton Ave Olean NY Houston Fearless Div Color Corp of Ame 11801 W Olympic Blvd Los Angeles 64 Calif Hull Corp 1941 Woodland Rd Abington Hycon Mfg Co 707 S Raymond Ave Pasadena Calif Ideal-Aerosmith Inc 12909 S Cerise Ave Hawthorne Calif Leal-Aerosmith Inc 12909 S Cerise Ave Hawthorne Calif Impact-O-Graph Corp 1900 Euclid Ave Cleveland 15 Ohio Industrial Electronic Engineers 3973 Lankershim Blvd N Hollywood Calif Industrial Electronics Inc 8060 Wheeler St Detroit 10 Mich Industrial Engravers Inc 2212 McDonald Ave Brooklyn 23 NY Industrial Test Equipment Co 55 E 11 St New York 3 NY Inland Electronics Corp 500 Rathbone Ave Aurora III Instrumentation Associates 17 W 60 St New York 23 NY Instrument Labs 315 W Walton PI Chicago 10 III 8 Insulating Fabricators Inc 160 Union Ave E Rutherford NJ Insulation Mfrs Corp 565 W Washington Blvd Chicago 39 II Insuline Corp of America 186 Granite St Manchester NH 181 181 181 182 182 183 184 184 185 185 185 185 185 185 180 Ny 181 181 181 181 181 181 181 181 181 181	11 11 11 11 11 11 11 11 11 11 11 11 11
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Isotopes Specialties Co 703 S Main St Burbank Calif	Matthews & Co Jas H 3956 Forbes St Pittsburgh 13 Pa 19	Nukem Products Corp 111 Colgate Ave Buffalo 20 NY 7
Ivanhoe Electronic Labs	Maurer Inc J A	Nureco Inc 1100 Pontiac Ave Cranston 10 RI
14238 S La Salle St Chicago 27 Ill 9-14-28-31	37-01 31 St Long Island City 1 NY 23 Mayer Eng'g Co Frank	NVT Electronics Inc
Jacobs Instrument Co	6442 Santa Monica Blvd Los Angeles 38 Calif 23-25	Oakite Products Inc
James Plating Works Inc	Measurement Eng'g Ltd	79 Rector St New York 6 NY O'Brien Electric Corp
720 W Schubert Ave Chicago 14 Ill 20-27 Jodee Plastics Co	232 John St Arnprior Ontario Can 3-4-9-12-13-20-23	6514 Santa Monica Blvd
213 Shepherd Ave Brooklyn 8 NY 11-13-30	Mechaneers Inc	Hollywood 38 Calif Oiljak Mfg Co
Johnson & Hoffman Mfg Corp 31 E 2 St Mineola NY 35	Westport Conn 23 Melco Products Inc	18 Depot So
Kaiser Aircraft & Electronics Corp Toledo Electronics Div	301 5 Ave S	Omega Labs Inc
P O Box 437 Toledo Ohio 23	Minneapolis 15 Minn 3-7-10-16-34 Merit Plating Co	Hovernill St Rowley Mass
Keil Eng'g Products Co 4356 Duncan Ave St Louis 10 Mo 27	218 E 141 St New York 51 NY 27 Metal Fabricators Corp	Opto Eng'g Co 3524 W Washington Blvd
Kallay & Co O G	73 Pond St Waltham 54 Mass 4-12-30-35	Orange Products Inc
Kent Co F C	Metal Finishing Service 711 W Root St Chicago 9 Ill 20	554 Mitchell St Orange N J
64 Howard St Irvington 11 NJ 3-4-12-35 Keystone Electronics Corp	Metal Forging Corp	Pacific Optical Corp 120 Glasgow Ave Inglewood 1 Calif 24
423 Broome St New York 13 NY 3-12-13	373 Van Sinderen Ave Brooklyn 7 NY 12	Pacific Universal Products Corp 168 Vista Ave Pasadena 8 Calif 24-26
Kinetics Corp 2 Churchill Rd	Metal Specialty Products Corp	
Hingham Mass 3-4-12-13-15-26-27-30	27-01 Brooklyn Queens Expressway W Woodside 77 NY 4-12-13-17-20-30-32-34-35	Denellit Inc
King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio 3-9	Methode Mfg Corp	7401 N Hamlin Ave Skokie III 3-1-12
Kling Metal Spinning & Stamping Co	7447 W Wilson Ave 3-11-12-13-17-19- Chicago 31 Ill 20-26-30-33	Parameters Inc 195 Herricks Rd New Hyde Park NY 8-17-23-29-32
245 Centre St New York 13 NY 4-12-30-35	Metronix Inc Mill Lane	New Hyde Park NY 8-11-23-25-52
Krengel Mfg Co 227 Fulton St New York 7 NY 19	Waterford Conn 3	10068 Franklyn Ave Franklyn Park III
Kupfrian Mf7 Corp	Mica Corp 4031 Elenda St Culver City Calif 12	Par Products Corp 602 Colorado Ave Santa Monica Calif 11-12
395 State St Binghamton NY 3-30 Kuss Industries Inc	Mica Fabricating Co Rochelle Park NJ 13	Parsons Co Ralph M Electronics Div 151 S De Lacey Ave Pasadena Calif 23
Tacony & Lewis Sts	Micarta Fabricators Inc 5324 N Ravenswood Ave	Pastushin Industries Inc
Philadelphia 24 Pa 3-4-12-13-19-23-27-30-35 Lab Corp	Chicago 40 Ill 11-13-30	11221 Hindry Ave Los Angeles 45 Calif 2-12-15-29-35
E Onondaga Skaneateles NY 32	Microphase Corp Box 1166 Greenwich Conn 8-21-23	Paul & Beekman
Lab-Tronics Inc 3656 N Lincoln Ave Chicago 13 Ill 3-12-13	Mid-West Conveyer Co	1801 Courtland St Philadelphia 40 Pa 3-12-20-35
Laminated Sheet Products Corp	Metal Products Div 7 & Sunshine Rd	Pedersen Electronics 3667A Mt Diablo Blvd Lafayette Calif 12
La Moree C D	Kansas City 15 Kan 3-4-7-12-13-20-30-35	Peerless Product Industries
2433 Birkdale St Los Angeles 31 Calif 11-13	Milgo Electronic Corp 7601 N W 37 Ave Miami 47 Fla 23	812 N Pulaski Rd
Land-Air Inc 7444 W Wilson Ave	Missileonics Inc	Defended of the Mansurements Co
Chicago 31 Ill 2-6-9-22-23-31-32	PO Box 716 Melbourne Fla 3-23-25 Mitronics Inc	15301 W McNichol Rd Detroit 35 Mich
Land-Air Inc Instrument & Electronic Div 3-12	1290 Central Ave Hillside N.J 10-16	Permanent Label Corp 49 Ackerman St Bloomfield NJ 19
2133 Adams Ave San Leandro Calif 13-23	Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY 12-13	Peschel Electronics Inc 13 Garden St New Rochelle NY 3-8-9-29-31-32
Lane Electronics Mfg Corp 7254 Atoll Ave N Hollywood Calif 2-9-32	Molded Insulation Co	
Lavoie Labs Inc	335 E Price St 3-8-11-12-13-15-17-20- Philadelphia 44 Pa 25-27-29-30-32-33-34-35	127 Water St New York 5 NY 3-4-12-20-23-30 Phelps Precision Lab
Matawan-Freehold Rd Morganville NJ 23 Lee Chemical Corp	MP Engineering Co	1939 Scott Terrace Minneapolls 15 Minn 14
Walter Seabury Ave & Butler Pl	Fairfield 3 Conn Muckle Mfg Co	Philbrick Researches Inc George A 230 Congress St Boston 10 Mass 6
Bronx 61 NY 13 L E E Inc	U S Hwy 14 Owatonna Minn 25	Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY 23
625 N Y Ave NW Washington 1 DC 3-11 Lepel High Frequency Labs	Mytron Mfg Co 4522 Brazil St Los Angeles 39 Calif 9	Photocon Research Products
54-18 37 Ave Woodside 77 NY 4-15-20	TAKUK ASSOCIATES INC	421 N Altadena Drive Pasadena Cam
Levey Labs Harold A 8127 Oleander St	Littleton Mass Narda Corp	PIC Design Corp 477 Atlantic Ave E Rockaway LI NY 3
New Orleans 18 La 34	160 Herricks Rd Mincels MV	Pioneer Patents & Products Co 3720 N New England Ave Chicago 34 Ill 3
Link-Radio Corp 110 Jericho Tpke	National Cine Fouipment Inc 209 W 48 St New York 36 NY	Diagtic Accessories Inc
New Hyde Park LI NY 23-28	National Company Inc	91 Mercer St New 10th 12 114
Little Inc Arthur D 30 Memorial Drive	61 Sherman St Malden 48 Mass 14 National Eng's Products Inc	P O Box 38 Station J Buffalo 8 NY PMIndustries Inc Instrument Motors Div
Cambridge Mass 8-23-29-32	435 Washington Rldg Washington F DG 10	460 North Ave New Rochelle NY
Litton Industries of Calif 336 N Foothill Rd	125 E 25 St New York 10 NV	Poinsettia Co 112 Cedar Ave Pitman 15 NJ 26
Beverly Hills Calif 3-10-16-23-30-32-34	National Instrument Lobo Inc. C100	Dotton Co
Litton Industries of Md Inc 4910 Calvert Rd College Park Md 3-12-23	Rhode Island Ave Riverdale Md 31 National Scientific Labs Inc	1950 Sheridan Rd N Chicago Ill Precision Electroplating Co
Lockheed Aircraft Corp Missile Systems Div	2010 Massachusetts Ave NW	519 Oakley Blvd Chicago 12 111
7701 Woodley Van Nuys Calif 6 Long Inc Thomas J	Washington 6 DC 23 National Spectrographic Labs Inc	Premier Instrument Corp 52 W Houston St
215 Stonehinge Lane	6300 Euclid Ave Cleveland 3 Ohio 17-32	New York 12 NY 4-21-26-27-30
Carle Place LI NY 13 Lorentzen Inc H K	National Tel-Tronics Corn 52 St Casimir Ave Yonkers NY 13	Premier Research Labs Inc 79 7 Ave New York 11 NY 26-27
391 W Broadway New York 12 NY 12-35	Nemeth Inc 2223 S Carmelina Ave	Printloid Corp 93 Mercer St New York 12 NY 11-15
Los Alamos Scientific Lab Univ of Calif Los Alamos New Mex 6	Los Angeles 64 Calif 4-12-13-16 Nevada Air Products Co P O Box 2472	
Lyman Electronic Corp	Reno Nev 2-15-23-35	1500 O'Connor Dr Toronto 16 Ont Canada 29 Pye Telecommunications Ltd
12 Cass St Springfield 4 Mass 3-4-7-12-30	Newcomb Spring Corp 177 E Hawthorne Ave Valley Stream NY 3-12	Newmarket Rd
Lytle Eng'g & Mfg Co	New York Testing Laboratories Inc.	Cambridge England 5-18-22-23-28 "Q" Glass Co
1404 San Mateo Blvd SE Albuquerque N Mex 8-12-13-17-23	47 West St New York 6 NY 32	470 Broad St Bloomfield NJ 13-16
McDowell Electronics Inc 105 Forrest St	Nichols Products Co 325 W Main St Moorestown NJ 12-13	Quality Control Corp 401 Broadway
Metuchen NJ 4-12-16-30-35	Nilsson Electrical Laboratory Inc 103 Lafayette St	New York 13 NY 9-11-17-24-3
Macleod & Hanopol 10 Roland St Charlestown 29 Mass 3-10	New York 13 NY 8-9-14-31-32	Radar Design Corp 210 5 Ave New York 16 NY 14-21
Magna Electronics Co	Norden-Ketay Corp Commerce Rd	Radiation Inc
9810 Anza Ave Inglewood 1 Calif 3-12 Magnaflux Corp	Stamford Conn 23 Norma Hoffmann Bearings Corp	PO Box 37 Melbourne Fla 23 Radio City Products Co
7300 W Lawrence Ave Chicago 31 III 17-32	Walker Div Hamilton Ave	Centre & Glendale Sts Easton Pa 2:
Magnasync Mfg Co 5546 Satsuma Ave	Stamford Conn 8-18-23-26-27 Northern Eng'z Labs	Radio Corp of America
N Hollywood Calif 3-30	372 Wilmot Ave Burlington Wisc 9-14-31	Camden 2 NJ 9-23-3 Radio Frequency Co
Malkin-Illion Co	Northern Plastics Corp 2nd Market St LaCrosse Wisc 13	44 Park St Medfield Mass 4-15-3
400 Coit St Irvington 11 NJ 12 Mandex Mfg Co	NRC Equipment Corp Sub National	Ram Meter Inc 1100 Hilton Rd
2608 W 16 St Chicago 8 III 10-12-13	Research Corp 160 Charlemont St	Ferndale 20 Mich 3-8-9-12-1
Master Engraving Studios 135 Liberty St New York 6 NY 11	Newton Highlands 61 Mass 26	Randall Inc Douglas 6 Pawcatuck Ave Westerly RI
Mathis Co G E 6100 S Oak Park Ave	Nuclear-Electronics Corp 2632 W Cumberland St	Ransom Research
Chicago 38 Ill 7-12-35	Philadelphia 32 Pa 12-13	323 W 7 St San Pedro Calif 6-33

Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass 13-16	Skintron Electronics & TV Co
	Skiatron Electronics & TV Co 180 Varick St New York 14
Raytheon Mfg Co	Slip Ring Co of America
Microwave & Power Tube Operations	Slip Ring Co of America 3612 W Jefferson Blvd
Foundry Ave Waitham Mass 16	Los Angeles 16 Calif
R & D Electronic Labs Inc 21-28 45 Rd Long Island City 1 NY 3-25	Smith-Meeker Eng'g Co 157 Chambers St New York
Rea Co J B	Solar Aircraft Co
1723 Cloverfield Blvd Santa Monica Calif 6	2200 Pacific Hwy San Diego
Red Point Corp	Somer's Brass Co Baldwin Ave Waterbury Co
1907 Riverside Dr Glendale 1 Calif 10 Red Seal Electric Co	Sonex Inc
6321 Detroit Ave Cleveland 2 Ohio 13	73 S State Rd Upper Darby
Reed & Reese Inc	Sorenson Industrial Electronic R #10 Dover NJ
717 N Lake Ave Pasadena 6 Calif 10	Southwest Products Inc
REF Mfg Corp 393 Jericho Tpke Mineola NY 3-12-13	Alamo Downs Rt 4 San Anto
393 Jericho Tpke Mineola NY 3-12-13 Regency Div Idea Inc	Speedassembly Equipment Co
1900 Pendleton Pike Indianapolis 26 Ind 3	Box 344 Fords NJ Sperry Products Inc
Reiner Electronics Co	Shelter Rock Rd Danbury (
Centre & Glendale Sts Easton Pa 12 Remington Rand Univac Div	Spincraft Inc
Sperry Rand Corp	4122 W State St Milwaukee
315 4 Ave New York 10 NY 6	Spinform Inc 65 Mechanic St
Remler Co	Attleboro Mass
2101 Bryant St San Francisco Calif 12-13-18-23-25-30	Spivey Inc James S
Research Development Mfg Inc	4908 Hampden Lane Washington 14 DC
429 E Collom St Philadelphia 41 Pa 12	Stackbin Corp
Research Electronics Lab	1079 Main St Pawtucket RI
Roslyn Pa 8 Rich Electronics Inc	Stamford Metal Specialty Co 427 W Broadway
212 NW 8 Ave	New York 12 NY
Miami 36 Fla 9-13-18-23-31-32-34	Standard Instruments
Riverbank Labs Eng'g Dept	P O Box 11556 Dallas 18 Tex
PO Box 65 Geneva III 14	Standard Pressed Steel Co Box 899 Jenkintown Pa
Rixon Electronics Inc 2414 Reedie Dr Silver Spring Md 10-23	Standard Record Mfg Co
Rockwell Co W S	70 N San Gabriel Blvd Pasade
220 Eliot St Fairfield Conn 12	Staver Co
Rockwell Eng'g Co 2133 E 45 St Indianapolis 5 Ind 8-9-31	41-51 N Saxon Ave Bay Shor Steel & Alloy Tank Co
Rogan Bros 8-9-31	1 Bessemer St Newark 5 NY
8031 N Monticello Skokie III 13	Steel Production & Chemical C
Rogers Corp	Mooresville Ind Stokes Molded Products Div
Rogers Conn 13	Electric Storage Battery Co
Rollan Electric Co 8233 S Princeton Ave Chicago 20 III 10	Strandberg Eng'g Labs Inc
Romar Plastics Inc	416 W Market St Greensbord
1311 E Main St St Charles Ill 13	Strat-O-Steel Mfg Co 3039 W Fullerton Ave Chicag
Rototest Labs Inc	Sturrup Inc
2803 Los Flores Blvd Lymwood Calif 8-29-32 Royal Electric Corp	50 Silver St Middletown Con-
95 Grand Ave Pawtucket RI 29	Superex Electronics Corp 4 Radford Pl Yonkers NY
Royson Eng'g Co	Syncor Products Co
103 N Penn St Hatboro Pa 3-30-35	30 Eastern Ave Malden 48 M
RS Electronics Corp 435 Portage Ave	Synthane Corp
Palo Alto Calif 19-13-23-25	Montgomery Ave Oaks Pa Taffet Radio & TV Co
Rubbercraft Corp of Calif 1800 W 220 St Torrance Calif	27-05 Brooklyn-Queens Expre
1800 W 220 St Torrance Calif 13 Sage Labs Inc	Woodside 77 NY
30 Guinan St Waltham 54 Mass 21	Tatnall Measuring Systems Co Kimberton Rd Phoenixville F
Saine Position and T. L. T.	Taylor Fibre Co
Same Equipment Lab Harry T	Norristown Pa
Saine Equipment Lab Harry T Rt 2 Box 407 E Main Ave	m 1 1 1 m; tre 1 0 1
Mt 2 Box 407 E Main Ave Morgan Hill Calif	Technical Ply-Woods Sales
Rt 2 Box 407 E Main Ave Morgan Hill Calif St John X-Ray Lab	Technical Ply-Woods Sales 6756 Crandon Ave Chicago 4
Rt 2 Box 407 E Main Ave Morgan Hill Calif St John X-Ray Lab Califon NJ St Marys Carbon Co	Technical Ply-Woods Sales 6756 Crandon Ave Chicago 4 Technicraft Co 1156 Commonwealth Ave
Mt 2 Box 407 E Main Ave Morgan Hill Calif St John X-Ray Lab Califon NJ 17-29-32 St Marys Carbon Co State St St Marys Pa	Technical Ply-Woods Sales 6756 Crandon Ave Chicago 4 Technicraft Co 1156 Commonwealth Ave Boston 34 Mass
Rt Z Box 407 E Main Ave Morgan Hill Calif 9 St John X-Ray Lab Califon NJ 17-29-32 St Marys Carbon Co State St St Marys Pa Sampson Chemical & Pigment Corp.	Technical Ply-Woods Sales 6756 Crandon Ave Chicago 4 Technicraft Co 1156 Commonwealth Ave Boston 34 Mass Technicraft Labs Inc
Rt 2 Box 407 E Main Ave Morgan Hill Calif St John X-Ray Lab Califon NJ 17-29-32 St Marys Carbon Co State St St Marys Pa Sampson Chemical & Pigment Corp 2830 W Lake St Chicago 12 111	Technical Ply-Woods Sales 6756 Crandon Ave Chicago 4 Technicraft Co 1156 Commonwealth Ave Boston 34 Mass Technicraft Labs Inc Thomaston-Waterbury Rd Thomaston Conn
Rt 2 Box 407 E Main Ave Morgan Hill Calif 9 St John X.Ray Lab Califon NJ 17-29-32 St Marys Carbon Co State St St Marys Pa Sampson Chemical & Pigment Corp 2830 W Lake St Chicago 12 III 19-20 Santa Monica Bay Sheltered Workshop 2521 5 St 3-8-9-12-13-17-	Technical Ply-Woods Sales 6756 Crandon Ave Chicago 4 Technicraft Co 1156 Commonwealth Ave Boston 34 Mass Technicraft Labs Inc Thomaston-Waterbury Rd Thomaston Conn Techniques Inc
Rt 2 Box 407 E Main Ave Morgan Hill Calif St John X-Ray Lab Califon NJ 17-29-32 St Marys Carbon Co State St St Marys Pa 13 Sampson Chemical & Pigment Corp 2830 W Lake St Chicago 12 III Santa Monica Bay Sheltered Workshop 2521 5 St Santa Monica Calif 19-25-29-30-32	Technical Ply-Woods Sales 6756 Crandon Ave Chicago 4 Technicraft Co 1156 Commonwealth Ave Boston 34 Mass Technicraft Labs Inc Thomaston-Waterbury Rd Thomaston Conn Techniques Inc 52 Jackson Ave Hackensack 1
Rt 2 Box 407 E Main Ave Morgan Hill Calif St John X-Ray Lab Califon NJ 17-29-32 St Marys Carbon Co State St St Marys Pa 13 Sampson Chemical & Pigment Corp 2830 W Lake St Chicago 12 III Santa Monica Bay Sheltered Workshop 2521 5 St Santa Monica Calif 19-25-29-30-32 Saratoga Plastics Inc	Technical Ply-Woods Sales 6756 Crandon Ave Chicago 4 Technicraft Co 1156 Commonwealth Ave Boston 34 Mass Technicraft Labs Inc Thomaston-Waterbury Rd Thomaston Conn Techniques Inc 52 Jackson Ave Hackensack I Techtron Electronics Ltd
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Veldex Inc 18425 Weaver Detroit 28 Mich 4	-30-35
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Chicago 43 III 3-8-9-17-29-31-32 Zenith Optical Lab	624 S Michigan Chicago 5 Ill 10	36-07 20 Ave Long Island City NY 10 Gray Research & Development Co
1940 Great Neck Rd Copiague LI NY 24	Bendix Aviation Corp Pacific Div 11600 Sherman Way	Hilliard St Manchester Conn 4-10-13-19-38
Zierick Mfg Corp Beechwood & Rockdale Ave	N Hollywood Calif	Greene Co L Charlton 314 Washington St Newton 58 Mass 10
New Rochelle NY 33 Zoomar Inc	Bennett & Co Paul 230 E Ohio St Chicago 11 III 6-7-8-9	Gulton Industries Inc 212 Durham Ave Metuchen NJ
55 Sea Cliff Ave Glen Cove NY 24	Remard Franklin Co	Hamilton Electronics
	4155 E Hedley St Philadelphia 37 Pa 29 Besteraft Products Co	2726 Pratt Ave Chicago 45 Ill 10 Harvey-Wells Electronics Inc
84—SOUND REPRODUCING	626 Broadway New York 12 NY 25	North St Southbridge Mass 28
EQUIPMENT, DISC	Bogen Co David P O Box 500 Paramus NJ 10-27-28	Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif 20
Equil MERT, DISC	Boulevard Recording Studio	Hoffman Electronics Corp
Brushes 1	25 E Jackson Blvd Chicago 4 III 33-35 Brush Electronics Co	Hull Corp
Cloths, record cleaning 2	3405 Perkins Ave Cleveland 14 Ohio 34-37	1941 Woodland Rd Abington Pa 30
Compensators 3	Brush Electronics Co Texas Div 3732 Westheimer Rd Houston 6 Texas 17-18	Hull-Standard Corp Abington Pa 30
Equalizers, record	Bundy Electronics Corp	Hupp Electronics Co Div Hupp Corp 743 Circle Ave Forest Park Ill 20
Filters, needle scratch 5 Needles, diamond 6	Rurroughs Corp	iE Mfg
Needles, metal 7	6071 2 Ave Detroit 32 Mich 19	325 N Hoyne Ave Chicago 12 III 29 I-L-S Instrument Corp
Needles, sapphires 8	Buss-Clement-Doughten & Associates 201 B Studio Hill Chester Springs Pa 36	4525 W 160 St Cleveland 11 Ohio 21
Needles, steel 9	Calbest Electronics Co	Infra Electronic Corp 47 Factory Pl Cedar Grove NJ 12
Phonographs, electrics 10	4801 Exposition Blvd Los Angeles 16 Calif 23-27	International Radio & Electronics Corp
Phonographs, hand-wound 11 Phonographs, radio combinations 12	Califone Corp	International Research & Development Corp
Pickup, arms	1041 N Sycamore Ave Hollywood 38 Calif 10-28	797 Thomas Lane Columbus 16 Ohio 18-19 Jensen Industries Inc
Pickups, bingural	Caltron Products Co	7333 Harrison St Forest Park Ill 6-7-8-9
Pickups, capacities 15	3518 W Pico Blvd Los Angeles 19 Calif 32 Canadian Aviation Electronics Ltd	Kistler Instrument Corp 15 Webster St N Tonawanda NY 17-18
Pickups, ceramic	6214 Cote de Liesse Rd	Kollsman Instrument Corp
Pickups, crystal 17	St Laurent Quebec Canada 12 Capitol Transcription Service	Sub Standard Coil Products 80-08 45 Ave Elmhurst 73 NY 22
Pickups, dynamic	1120-A Conn Ave	Land-Air Inc Instrument &
Pickups, photoelectric	N W Washington 6 DC 33-35-36 Capps & Co	Electronic Div 2133 Adams Ave San Leandro Calif
Pickups, reluctance 21	20 Addison Pl	Linlar Inc 4101 San Fernando Rd Glendale 4 Calif 12
Pickups, resistance 22	Chesapeake Instrument Corp	Lytle Eng'g & Mfg Co
Record changers, automatic 23	Shadyside Md Columbia Records Div Columbia	1404 San Mateo Blvd SE Albuquerque New Mex 30
Record compounds	Broadcasting System 799 7 Ave	McClure Talking Pictures O J
Record pads	New York NY 10-12-27 Concert Hall Society	1115 W Washington Blvd Chicago 7 Ill Magnaflux Corp
Record Players, home 27	71 5 Ave New York 3 NY 35	7300 W Lawrence Ave Chicago 31 Ill 19
Record Players, transcription 28	Cook Labs Inc 101 2 St Stamford Conn 30	Magnavox Corp 2131 Bueter Rd Ft Wayne 4 Ind 10
Record Racks 29	Crawford's of Beverly Hills	Majestic Int'l Corp
Record Presses	456 N Rodeo Dr Beverly Hills Calif 12 Crescent Industries Inc	79 Washington St 13-16-17 Brooklyn 1 NY 18-19-23
Records, binaural	5900 W Touhy Ave Chicago III 10	Major Electronics Corp 762 Wythe Ave Brooklyn 11 NY 10-12
Records, blank	Decker Aviation Corp 1361 Frankford Ave Philadelphia 25 Pa 15	Manufacturer's Lab
Records, frequency 34	DeWald Radio Mfg Corp	10610 Keswick St Sun Valley Calif 13 Marantz Co
Records, home	35-15 37 Ave Long Island City 1 NY 12 Diamond Tool Eng'g Co	4415 Vernon Blvd Long Island City 1 NY 4
Records, sound effects 36	108 Massachusetts Ave Boston 15 Mass 6	Markel Electric Products Inc 145 E Seneca St Buffalo 3 NY
Records, test	D & R Ltd 402 F Gutierree St	Metal Specialty Products Corp 27-01 Brooklyn Queens Expressway
Turntables 38	Santa Barbara Calif 37	W Woodside 77 NY
Admiral Corp	Du Kane Corp St Charles Ill 38	Metzner Eng'g Corp 1041 N Sycamore Ave
3800 W Cortland St Chicago 47 Ill 23-27 Affton Industries	Duotone Co Locust St Keyport NJ 1-2-6-7-8-9-25-32	Hollywood 38 Calif 10-13-28
406 St Louis Ave	Edin Co	Miller Co J W 5917 S Main St Los Angeles 3 Calif 5
Aistenis Davelonment Corn	207 Main St Worcester 8 Mass 34 Electron Enterprises	Miller Mfg Co M A
4902 Church Ave Brooklyn 3 NY 10-12-27-28	6917 W Stanley Ave Berwyn Ill 10	Molded Insulation Co
Allied Recording Products Co 32-32 Greenpoint Ave	Electronic Creations Co 1178 E 180 St New York 60 NY 10-12	335 E Price St Philadelphia 44 Pa Molded Products Div Admiral Corp
Long Island City 1 NY 32	Electron-Radar Products	Washington & Creamery Rd W Chicago III 13
American Elite Inc 7 Park Ave New York 16 NY 10-12-23	4806 W Chicago Ave Chicago 51 Ill 20 Electro Products Labs Inc	MP Engineering Co Fairfield 3 Conn 10-12
American Machine & Foundry Co Defense Products Group	4501 N Ravenswood Ave Chicago 40 III 19	National Company Inc
1101 N Royal St Alexandria Va 29	Electro-Sonic Labs 35-54 36 St Long Island City 6 NY 13-18	Neumade Products Corp
American Mica Radio Corp 235 Parker Ave Manasquan NJ 23	Electro-Voice Inc	250 W 57 St New York 19 NY Newcomb Audio Products Co
AMI Inc	Cecil & Carrol Sts Buchanan Mich 16-17 Electrovox Co	6824 Lexington Ave
1500 Union Ave Grand Rapids 2 Mich 12 Ampex Corp	60 Franklin St E Orange NJ 6-7-8	North American Instruments Inc
934 Charter St Redwood City Call	Elgin National Watch Co 107 National St Elgin III 13	2420 N Lake St Altadena Calli 19-21
Andrea Radio Corp 27-01 Bridge Plaza	Emerson Radio & Phonograph Corp	Norton Associates Inc P O Box 96 Garden City NY 19
N Long Island City 1 NY 10-12	14 & Colas Sts Jersey City 2 NJ 10-12-27 Emerson-Sack-Warner Corp	Oberline Inc
Ansley Mfg Co Arthur New Hope Pa 12	85 Washington St Somerville 43 Mass 29-38 Endevco Corp	Olympic Radio & TV
Astatic Corp	161 E California St Pasadena Calif 16-17-18	34-01 38 Ave Long Island City 1 NY 23-27
250 Harbor St Conneaut Ohio 16-17-18-19-21	Ercona Corp 551 5 Ave New York 17 NY 23-28	Ortho Filter Corp 196 Albion Ave Paterson 2 NJ
Atlantic Research Corp	Erie Resistor Corp	Pacific Transducer Corp
Audio Development Co	644 W 12 St Erie 6 Pa 15-16 Factory Service Co	11836 W Pico Blvd Los Angeles 64 Calif 4-6-8-13-19
2833 13 Ave S Minneapolis Minn 5	4615 N 21 St Milwaukee 9 Wis 29	Packard Bell Electronics Corp
Audio Devices Inc 444 Madison Ave New York 22 NY 7-8-9	Fairchild Recording Equipment Co 4-18 10-40 45 Ave Long Island City 1 NY 19-38	12333 W Olympic Blvd Los Angeles 64 Calif
Audioversh Corp	Falstrom Co	Pampa Electronics Corp
Audio-Master Corp	Fidelity Amplifier Co	7354 Frankford Ave Philadelphia 36 Pa 13-18-19
17 E 45 St New York 17 NY 10-12-27-28	703 Willow St Chicago 14 Ill 10 Fisher Radio Corp	Permoflux Products Co
Audio-Video Recording Co 730 5 Ave New York 19 NY 33	21-21 44 Dr Long Island City 1 NY 4-5-10-12	4101 San Fernando Rd Glendale 4 Calif 10-12-27
Autocrat Electronics Co	Frederick Recording Co 101 Townsend St Midland Mich 33-35-36	Permo Inc
Automatic Radio Mfg Co	Garrard Sales Corp	6415 N Ravenswood Ave Chicago 26 Ill 1-6-7-8-9
122 Brookline Ave Boston 15 Mass 27 Autron Eng'g Inc	Gates Radio Co	Pfanstiehl Chemical Corp
1254 W 6 St Los Angeles 17 Calif 20	123 Hampshire St Quincy Ill 28	104 Lake View Ave Waukegan Ill 6-7-8-9

Phileo Corp	Toman & Co E	Gary Wells Co
Tioga & C Sts Philadelphia 24 Pa 10 Phoenix Precision Instrument Co	8700 W 47 St Lyons Ill 11-13 Transonic Inc	361 Rockaway Ave Valley Stream NY 3 General Transistor Western Corp
3803 N 5 St Philadelphia 40 Pa 20	808 16 St Bakersfield Calif 5	6110 Venice Blvd Los Angeles 34 Calif 3
Photobell Co 43 Vesey St New York 7 NY 20	Trans-Tel Corp 736 N Highland Ave	Graflex Inc
Photocon Research Products	Los Angeles 38 Calif 10-12-27	154 Clarissa St Rochester 8 NY 5 Klipsch & Associates
421 N Altadena Drive Pasadena Calif 15-18 Photo Crystals Inc	Transvision Inc	P O Drawer 96 Hope Ark 9
15 S 1 St Geneva III 20	460 North Ave New Rochelle NY 12 Trav-Ler Radio Corp	Lipps Co Edwin A 5485 W Washington Blvd
Pickering & Co	571 W Jackson Blvd Chicago 6 III 10	Los Angeles 16 Calif 2-3
309 Woods Ave Oceanside NY 4-13-19-21 Precision Radiation Instruments Inc	Trutone Electronics Inc 812 N Highland Avc	Magnasync Mfg Co
4223 W Jefferson Blvd	Los Angeles 38 Calif 10-12	5546 Satsuma Ave N Hollywood Calif Magnecord Div Midwestern Instruments
Los Angeles 16 Calif 12 Precision Supply Co	Turner Co	Inc 1101 S Kilbourn Ave
292 Belmont Ave Paterson 2 N.I 8	909 17 St N E Cedar Rapids lowa 17 U S Recording Co	Chicago 24 Ill 3-5 MagneTec Corp
Presto Recording Corp	1121 Vermont Ave Washington 5 DC 28	11785 W Olympic Blvd
Box 500 Paramus NJ 27-28-32-38 Pulse Techniques Inc	Vallorbs Jewel Co Lancaster Pa	W Los Angeles 64 Calif 3 Magnetic Sound Inc
1411 Palisade Ave W Englewood NJ 4-5	V-M Corp	4803 1/2 Grand Ave Des Moines 12 Iowa 9
Pye Canada Ltd 82 Northline Rd	4 & Park Sts Benton Harbor Mich 10-12-23-27	Magne-Tronics Inc
Toronto 16 Ontario Canada 10-19-97	Voron & Co George	49 W 45 St New York NY 9 Mica Fabricating Co
Radio Corp of America	835 N 19 St Philadelphia 30 Pa 5	Rochelle Park NJ
Camden 2 NJ 10-12-23-27-28-33-35-36-37-38 Radio Corp of America Commercial	WacLine Inc 35 S St Clair St Dayton 2 Ohio 15	Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill 5
Electronic Products	waitham Watch Co	Midwestern Instruments
Camden 2 NJ 13-19-23 Radio Kits Inc	221 Crescent St Waltham 54 Mass 6-8 Warwick Mfg Corp	P O Box 7186 Tulsa Okla 8 Miller Electronics
120 Cedar St New York 6 NY 27	7300 N Lehigh Ave Chicago 31 III 23-27	2840 Naomi St Burbank Calif 9
Recordisc Corp 33-01 Far Rockaway Blvd	Waters Conley Co	Minneapolis-Honeywell Regulator Co Davies Labs Div
Edgemere 91 NY 7-8-9	Watson Mfg Co	10721 Hanna St Beltsville Md 3-9
Recoton Corp	3700 Taylor St Jamestown NY 29	Minnesota Mining & Mfg Co
52-35 Barnett Ave 6-7-8-9 Long Island City 4 NY 13-19-21-32	Weathers Industries Div Advance Industries 66 E Gloucester Pike	900 Fauquier Ave St Paul 6 Minn 8 Mohawk Business Machines Corp
Rek-O-Kut Co	Barrington NJ 13-15	944 Halsey St Brooklyn 33 NY 5
38-01 Queens Blvd Long Island City 1 NY 13-27-28	Webcor Inc 5626 Bloomingdale Ave Chicago 39 lll 10	National-Standard Co Niles Michigan 11
Rhein Sound Systems Inc	westrex Corp	Nemeth Inc
133 Hamilton St New Haven 5 Conn 28 Robins Industries Corp	111 8 Ave New York 11 NY Westronics Inc	2223 S Carmelina Ave Los Angeles 64 Calif 3-4
214-26 41 Ave Bayside 61 NY 1-2-29	3605 McCart Ft Worth Texas 34	Norton Associates Inc
Robinson Recording Labs	Wiancko Engig Co	P O Box 96 Garden City NY 2-3-4 Pampa Electronics Corp
35 S 9 St Philadelphia 7 Pa 38 Rockbar Corp	255 Halstead St Pasadena Calif 21 Zenith Radio Corp	7354 Frankford Ave
650 Halstead Ave Mamaroneck NV 23-27-28	6001 Dickens Ave Chicago 39 Ill 23	Philadelphia 36 Pa 2-3 Pentron Corp
Ronette Acoustical Corp 190 Earle Ave Lynbrook NY 13-17-20	SE SOUND REPRODUCING	777 S Tripp Ave Chicago 24 III 8-9
Rowe Industries	85—SOUND REPRODUCING	Permo Inc 6415 N Ravenswood Ave Chicago 26 III 11
1702 Wayne St Toledo 9 Ohio 19 Scott Inc H H	EQUIPMENT, MAGNETIC	Pres Industrial Equipment Ltd
385 Putnam Ave Cambridge 39 Mass 5-38	Editing blocks 1	Box 302 Putt Corners Rd N New Paltz NY
Scully Machine Co	Heads, magnetic film stripe 2	Presto Recording Corp
Servonic Instruments Inc	Heads, magnetic tape playback 3	Box 500 Paramus NJ Radio Corp of America
1145 S Fair Oaks Ave Pasadena 2 Calif 22 Shure Bros	Heads, magnetic wire playback 4	Camden 2 NJ 8-9
		5-9
222 Hartrey Ave Evanston III 13-16-17-19	Players, magnetic tape 5 Players, magnetic wire	Rangertone Inc
222 Hartrey Ave Evanston III 13-16-17-19 Simpson Mfg Co Mark	Players, magnetic wire 6 Tape indexes 7	Rangertone Inc 73 Winthrop St Newark 4 NJ Rea Co J B
222 Hartrey Ave Evanston III 13-16-17-19 Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY 4 Sonex Inc	Players, magnetic wire 6 Tape indexes 7 Tape, magnetic 8	Rangertone Inc 73 Winthrop St Newark 4 NJ 88 Co J B 1723 Cloverfield Blvd Santa Monica Calif 8 Recordisc Corp
222 Hartrey Ave Evanston III 13-16-17-19 Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY 4 Sonex Inc 73 S State Rd Upper Darby Pa	Players, magnetic wire         6           Tape indexes         7           Tape, magnetic         8           Tape, prerecorded         9	Rangertone Inc 73 Winthrop St Newark 4 NJ 8 Rea Co J B 1723 Cloverfield Blvd Santa Monica Calif Recordisc Corp 33-01 Far Rockaway Blvd Edgemere 91 NY 8
222 Hartrey Ave Evanston III 13-16-17-19 Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY 4 Sonex Inc 73 S State Rd Upper Darby Pa Sonic Industries 19 Wilbur St Lynbrock NY	Players, magnetic wire       6         Tape indexes       7         Tape, magnetic       8         Tape, prerecorded       9         Tapes, test       10	Rangertone Inc 73 Winthrop St Newark 4 NJ 8ea Co J B 1723 Cloverfield Blvd Santa Monica Calif 8 Recordisc Corp 33-01 Far Rockaway Blvd Edgemere 91 NY 8 Reeves Soundcraft Corp 10 E 52 St New York 22 NY 8
222 Hartrey Ave Evanston III 13-16-17-19 Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY 4 Sonex Inc 73 S State Rd Upper Darby Pa Sonic Industries 19 Wilbur St Lynbrook NY 10 Speak-O-phone Recording & Fourin Co	Players, magnetic wire       6         Tape indexes       7         Tape, magnetic       8         Tape, prerecorded       9         Tapes, test       10         Wire, magnetic       11	Rangertone Inc 73 Winthrop St Newark 4 NJ Rea Co J B 1723 Cloverfield Blvd Santa Monica Calif Recordisc Corp 33-01 Far Rockaway Blvd Edgemere 91 NY 8 Reeves Soundcraft Corp 10 E 52 St New York 22 NY Shure Bros
222 Hartrey Ave Evanston III 13-16-17-19 Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY 4 Sonex Inc 73 S State Rd Upper Darby Pa Sonic Industries 19 Wilbur St Lynbrook NY 10 Speak-O-Phone Recording & Equip Co 23 W 60 St New York 23 NY 35 Standard Record Mfg Co	Players, magnetic wire 6 Tape indexes 7 Tape, magnetic 8 Tape, prerecorded 9 Tapes, test 10 Wire, magnetic 11 Affton Industries	Rangertone Inc 73 Winthrop St Newark 4 NJ 8ea Co J B 1723 Cloverfield Blvd Santa Monica Calif 8 Recordisc Corp 33-01 Far Rockaway Blvd Edgemere 91 NY 8 Reeves Soundcraft Corp 10 E 52 St New York 22 NY Shure Bros 222 Hartrey Ave Evanston Ill 3-4 Stancil-Hoffman Corp
222 Hartrey Ave Evanston III 13-16-17-19 Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY 4 Sonex Inc 73 S State Rd Upper Darby Pa Sonic Industries 19 Wilbur St Lynbrook NY 10 Speak-O-Phone Recording & Equip Co 23 W 60 St New York 23 NY 35 Standard Record Mfg Co 70 N San Gabrial Blvd Passdens & Calif	Players, magnetic wire	Rangertone Inc 73 Winthrop St Newark 4 NJ 8 Rea Co J B 1723 Cloverfield Blvd Santa Monica Calif Recordisc Corp 33-01 Far Rockaway Blvd Edgemere 91 NY 8 Reeves Soundcraft Corp 10 E 52 St New York 22 NY 8 Shure Bros 222 Hartrey Ave Evanston Ill 3-4 Stancil-Hoffman Corp 921 N Highland Ave
222 Hartrey Ave Evanston III 13-16-17-19 Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY 4 Sonex Inc 73 S State Rd Upper Darby Pa Sonic Industries 19 Wilbur St Lynbrook NY 10 Speak-O-Phone Recording & Equip Co 23 W 60 St New York 23 NY 35 Standard Record Mfg Co 70 N San Gabrial Blvd Pasadena 8 Calif 33-36 Standard Tool & Mfg Co	Players, magnetic wire 6 Tape indexes 7 Tape, magnetic 8 Tape, prerecorded 9 Tapes, test 10 Wire, magnetic 11 Affton Industries 406 St Louis Ave Valley Park Mo 7-8-9-10 Ampex Corp 934 Charter St Redwood City Calif 5	Rangertone Inc 73 Winthrop St Newark 4 NJ Rea Co J B 1723 Cloverfield Blvd Santa Monica Calif 8 Recordisc Corp 33-01 Far Rockaway Blvd Edgemere 91 NY 8 Reeves Soundcraft Corp 10 E 52 St New York 22 NY Shure Bros 222 Hartrey Ave Evanston Ill 3-4 Stancil-Hoffman Corp 921 N Highland Ave Hollywood 38 Calif 5tromberg-Carlson Div General
222 Hartrey Ave Evanston III 13-16-17-19 Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY 4 Sonex Inc 73 S State Rd Upper Darby Pa Sonic Industries 19 Wilbur St Lynbrook NY 10 Speak-O-Phone Recording & Equip Co 23 W 60 St New York 23 NY 35 Standard Record Mfg Co 70 N San Gabrial Blvd Pasadena 8 Calif 33-36 Standard Tool & Mfg Co 237 Laurel Ave Kearny NJ 20-38	Players, magnetic wire	Rangertone Inc 73 Winthrop St Newark 4 NJ Rea Co J B 1723 Cloverfield Blvd Santa Monica Calif Recordisc Corp 33-01 Far Rockaway Blvd Edgemere 91 NY 8 Reeves Soundcraft Corp 10 E 52 St New York 22 NY Shure Bros 222 Hartrey Ave Evanston Ill 3-4 Stancii-Hoffman Corp 921 N Highland Ave Hollywood 38 Calif Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd
222 Hartrey Ave Evanston III 13-16-17-19 Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY 4 Sonex Inc 73 S State Rd Upper Darby Pa Sonic Industries 19 Wilbur St Lynbrook NY 10 Speak-O-Phone Recording & Equip Co 23 W 60 St New York 23 NY 35 Standard Record Mfg Co 70 N San Gabrial Blvd Pasadena 8 Calif 33-36 Standard Tool & Mfg Co 237 Laurel Ave Kearny NJ 30-38 Statham Labs Inc	Players, magnetic wire Tape indexes 7 Tape, magnetic 8 Tape, prerecorded 9 Tapes, test 10 Wire, magnetic 11 Affton Industries 406 St Louis Ave Valley Park Mo 7-8-9-10 Ampex Corp 934 Charter St Redwood City Calif Astatic Corp 250 Harbor St Conneaut Ohio Atlantic & Pacific Wire & Cable Co	Rangertone Inc 73 Winthrop St Newark 4 NJ Rea Co J B 1723 Cloverfield Blvd Santa Monica Calif Recordisc Corp 33-01 Far Rockaway Blvd Edgemere 91 NY 8 Reeves Soundcraft Corp 10 E 52 St New York 22 NY Shure Bros 222 Hartrey Ave Evanston Ill 3-4 Stancil-Hoffman Corp 921 N Highland Ave Hollywood 38 Calif Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY Symphonic Radio & Electronic Corp
222 Hartrey Ave Evanston III 13-16-17-19 Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY 4 Sonex Inc 73 S State Rd Upper Darby Pa Sonic Industries 19 Wilbur St Lynbrook NY 10 Speak-O-Phone Recording & Equip Co 23 W 60 St New York 23 NY 35 Standard Record Mfg Co 70 N San Gabrial Blvd Pasadena 8 Calif 33-36 Standard Tool & Mfg Co 237 Laurel Ave Kearny NJ 30-38 Statham Labs Inc 12401 W Olympic Blvd Los Anyeles 64 Celif	Players, magnetic wire Tape indexes 7 Tape, magnetic 8 Tape, prerecorded 9 Tapes, test 10 Wire, magnetic 11  Affton Industries 406 St Louis Ave Valley Park Mo 7-8-9-10 Ampex Corp 934 Charter St Redwood City Calif 5 Astatic Corp 250 Harbor St Conneaut Ohio 3 Atlantic & Pacific Wire & Cable Co 112-01 Northern Blvd	Rangertone Inc 73 Winthrop St Newark 4 NJ Rea Co J B 1723 Cloverfield Blvd Santa Monica Calif Recordisc Corp 33-01 Far Rockaway Blvd Edgemere 91 NY 8 Reeves Soundcraft Corp 10 E 52 St New York 22 NY Shure Bros 222 Hartrey Ave Evanston Ill 3-4 Stancil-Hoffman Corp 921 N Highland Ave Hollywood 38 Calif 2-3 Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rc Rochester 3 NY Symphonic Radio & Electronic Corp 235 Jersey Ave New Brunswick NJ 5
222 Hartrey Ave Evanston III 13-16-17-19 Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY 4 Sonex Inc 73 S State Rd Upper Darby Pa Sonic Industries 19 Wilbur St Lynbrook NY 10 Speak-O-Phone Recording & Equip Co 23 W 60 St New York 23 NY 35 Standard Record Mfg Co 70 N San Gabrial Blvd Pasadena 8 Calif 33-36 Standard Tool & Mfg Co 237 Laurel Ave Kearny NJ 30-38 Statham Labs Inc 12401 W Olympic Blvd Los Anrelcs 64 Calif Steelman Phonograph & Radio Co 2-30 Anderson Ave Mt Vances NY 10 11 10	Players, magnetic wire Tape indexes	Rangertone Inc 73 Winthrop St Newark 4 NJ Rea Co J B 1723 Cloverfield Blvd Santa Monica Calif Recordisc Corp 33-01 Far Rockaway Blvd Edgemere 91 NY 8 Reeves Soundcraft Corp 10 E 52 St New York 22 NY Shure Bros 222 Hartrey Ave Evanston Ill 3-4 Stancil-Hoffman Corp 921 N Highland Ave Hollywood 38 Calif Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY Symphonic Radio & Electronic Corp 235 Jersey Ave New Brunswick NJ Talking Devices Co 4447 Irving Park Rd Chicago 41 Ill
222 Hartrey Ave Evanston III 13-16-17-19 Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY 4 Sonex Inc 73 S State Rd Upper Darby Pa Sonic Industries 19 Wilbur St Lynbrook NY 10 Speak-O-Phone Recording & Equip Co 23 W 60 St New York 23 NY 35 Standard Record Mfg Co 70 N San Gabrial Blvd Pasadena 8 Calif 33-36 Standard Tool & Mfg Co 237 Laurel Ave Kearny NJ 30-38 Statham Labs Inc 12401 W Olympic Blvd Los Anreles 64 Calif 22 Steelman Phonograph & Radio Co 2-30 Anderson Ave Mt Vernon NY 10-11-12 Stokes Corn F J	Players, magnetic wire Tape indexes 7 Tape, magnetic 8 Tape, prerecorded 9 Tapes, test 10 Wire, magnetic 11  Affton Industries 406 St Louis Ave Valley Park Mo 7-8-9-10 Ampex Corp 934 Charter St Redwood City Calif 5 Astatic Corp 250 Harbor St Conneaut Ohio 3 Atlantic & Pacific Wire & Cable Co 112-01 Northern Blvd E Elmhurst LI NY 11 Audio Devices Inc 444 Madison Ave New York 22 NY 8	Rangertone Inc 73 Winthrop St Newark 4 NJ Rea Co J B 1723 Cloverfield Blvd Santa Monica Calif Recordisc Corp 33-01 Far Rockaway Blvd Edgemere 91 NY 8 Reeves Soundcraft Corp 10 E 52 St New York 22 NY Shure Bros 222 Hartrey Ave Evanston Ill 3-4 Stancil-Hoffman Corp 921 N Highland Ave Hollywood 38 Calif Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY Symphonic Radio & Electronic Corp 235 Jersey Ave New Brunswick NJ Talking Devices Co 4447 Irving Park Rd Chicago 41 Ill Tape of the Month Inc
222 Hartrey Ave Evanston III 13-16-17-19 Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY 4 Sonex Inc 73 S State Rd Upper Darby Pa Sonic Industries 19 Wilbur St Lynbrook NY 10 Speak-O-Phone Recording & Equip Co 23 W 60 St New York 23 NY 35 Standard Record Mfg Co 70 N San Gabrial Blvd Pasadena 8 Calif 33-36 Standard Tool & Mfg Co 237 Laurel Ave Kearny NJ 30-38 Statham Labs Inc 12401 W Olympic Blvd Los Anvelcs 64 Calif 22 Steelman Phonograph & Radio Co 2-30 Anderson Ave Mt Vernon NY 10-11-12 Stokes Corp F J 5500 Tabor Rd Philadelphia 20 Pa 30	Players, magnetic wire Tape indexes 7 Tape, magnetic 8 Tape, prerecorded 9 Tapes, test 10 Wire, magnetic 11  Affton Industries 406 St Louis Ave Valley Park Mo 7-8-9-10 Ampex Corp 934 Charter St Redwood City Calif 5 Astatic Corp 250 Harbor St Conneaut Ohio 3 Atlantic & Pacific Wire & Cable Co 112-01 Northern Blvd E Elmhurst LI NY 11 Audio Devices Inc 444 Madison Ave New York 22 NY 8 Audio-Master Corp 17 E 45 St New York 17 NY 8-9	Rangertone Inc 73 Winthrop St Newark 4 NJ Rea Co J B 1723 Cloverfield Blvd Santa Monica Calif Recordisc Corp 33-01 Far Rockaway Blvd Edgemere 91 NY 8 Reeves Soundcraft Corp 10 E 52 St New York 22 NY Shure Bros 222 Hartrey Ave Evanston Ill 3-4 Stancil-Hoffman Corp 921 N Highland Ave Hollywood 38 Calif Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY Symphonic Radio & Electronic Corp 235 Jersey Ave New Brunswick NJ Talking Devices Co 4447 Irving Park Rd Chicago 41 Ill
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222 Hartrey Ave Evanston III 13-16-17-19 Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY 4 Sonex Inc 73 S State Rd Upper Darby Pa Sonic Industries 19 Wilbur St Lynbrook NY 10 Speak-O-Phone Recording & Equip Co 23 W 60 St New York 23 NY 35 Standard Record Mfg Co 70 N San Gabrial Blvd Pasadena 8 Calif 33-36 Standard Tool & Mfg Co 237 Laurel Ave Kearny NJ 30-38 Statham Labs Inc 12401 W Olympic Blvd Los Anreles 64 Calif 22 Steelman Phonograph & Radio Co 2-30 Anderson Ave Mt Vernon NY 10-11-12 Stokes Corp F J 5500 Tabor Rd Philadelphia 20 Pa 30 Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY 23-27 Sylvania Electric Products Inc 1740 Broadway New York 19 NY 10-12-23 Symphonic Radio & Electronic Corp 225 Jersey Ave New Brunswick NJ 10-12 Symphony Electronics Corp 925 S Western Ave Los Angeles 6 Calif Talking Devices Co 4447 Irving Park Rd Chicago 41 III 10-11-28-38 Telechron Electronics Ltd 583 Gramatan Ave Mt Vernon NY 4-38 Telechrone Mfg Corp 28 Ranick Dr Amityville LI NY 20 Telectro Industries Corp 35-18 37 St Long Island City 1 NY 4 Telecton Co of America 1178 E 180 St Bronx 60 NY 10-12 Televex Co 46 Lakeview Ave Yonkers NY Temperature Eng'g Corp U S Hwy 130 Riverton NJ 29	Players, magnetic wire Tape indexes Tape, magnetic Tape, magnetic Tape, prerecorded Tapes, test	Rangertone Inc 73 Winthrop St Newark 4 NJ Rea Co J B 1723 Cloverfield Blvd Santa Monica Calif 3 Recordisc Corp 33-01 Far Rockaway Blvd Edgemere 91 NY 8 Reeves Soundcraft Corp 10 E 52 St New York 22 NY 8 Shure Bros 222 Hartrey Ave Evanston Ill 3-4 Stancil-Hoffman Corp 921 N Highland Ave Hollywood 38 Calif 5 Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rc Rochester 3 NY 8 Symphonic Radio & Electronic Corp 235 Jersey Ave New Brunswick NJ 7 Talking Devices Co 4447 Irving Park Rd Chicago 41 Ill 7 ape of the Month Inc 449 W 51 St New York 19 NY 9 Techalloy Co Rahns Pa 7 Techtron Electronics Ltd 583 Gramatan Ave Mt Vernon NY 7 Telectro Industries Corp 35-18 37 St Long Island City 1 NY 7 St-18 37 St Long Island City 1 NY 7 St-19 Addition of Minn 9600 Aldrich Ave S Minneapolis 20 Minn 97 St-17 N Grand Blvd St Louis 3 Mo 986—SOUND SYSTEMS, INTER- COMMUNICATORS & HEARING AIDS  Amplifiers, mobile
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222 Hartrey Ave Evanston III 13-16-17-19 Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY 4 Sonex Inc 73 S State Rd Upper Darby Pa Sonic Industries 19 Wilbur St Lynbrook NY 10 Speak-O-Phone Recording & Equip Co 23 W 60 St New York 23 NY 35 Standard Record Mfg Co 70 N San Gabrial Blvd Pasadena 8 Calif 33-36 Standard Tool & Mfg Co 237 Laurel Ave Kearny NJ 30-38 Statham Labs Inc 12401 W Olympic Blvd Los Anreles 64 Calif 22 Steelman Phonograph & Radio Co 2-30 Anderson Ave Mt Vernon NY 10-11-12 Stokes Corp F J 5500 Tabor Rd Philadelphia 20 Pa 30 Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY 23-27 Symphonic Radio & Electronic Corp 235 Jersey Ave New Brunswick NJ 10-12 Symphonic Radio & Electronic Corp 235 Jersey Ave New Brunswick NJ 10-12 Symphony Electronics Corp 925 S Western Ave Los Angeles 6 Calif 10-12 Talking Devices Co 4447 Irving Park Rd Chicago 41 III 10-11-28-38 Telechrone Electronics Ltd 583 Gramatan Ave Mt Vernon NY 4-38 Telectrone Mfg Corp 28 Ranick Dr Amityville LI NY 20 Telectro Industries Corp 135-18 37 St Long Island City 1 NY 4 Telectrone Co of America 1178 E 180 St Bronx 60 NY 10-12 Televex Co 46 Lakeview Ave Yonkers NY 6-8 Temperature Eng'g Corp U S Hwy 130 Riverton NJ 29 Texas Instruments Inc Industrial	Players, magnetic wire Tape indexes Tape, magnetic Rape, prerecorded Players, test Pages,	Rangertone Inc
222 Hartrey Ave Evanston III 13-16-17-19 Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY 4 Sonex Inc 73 S State Rd Upper Darby Pa Sonic Industries 19 Wilbur St Lynbrook NY 10 Speak-O-Phone Recording & Equip Co 23 W 60 St New York 23 NY 35 Standard Record Mfg Co 70 N San Gabrial Blvd Pasadena 8 Calif 33-36 Standard Tool & Mfg Co 237 Laurel Ave Kearny NJ 30-38 Statham Labs Inc 12401 W Olympic Blvd Los Anyeles 64 Calif 22 Steelman Phonograph & Radio Co 2-30 Anderson Ave Mt Vernon NY 10-11-12 Stokes Corp F J 5500 Tabor Rd Philadelphia 20 Pa 30 Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY 23-27 Sylvania Electric Products Inc 1740 Broadway New York 19 NY 10-12-23 Symphonic Radio & Electronic Corp 225 S Western Ave Los Angeles 6 Calif 10-12 Symphony Electronics Corp 925 S Western Ave Los Angeles 6 Calif 10-12 Talking Devices Co 4447 Irving Park Rd Chicago 41 III 10-11-28-38 Telechrone Mfg Corp 28 Ranick Dr Amityville LI NY 20 Telectro Industries Corp 28 Ranick Dr Amityville LI NY 4 Telectro Industries Corp 178 E 180 St Bronx 60 NY 10-12 Televex Co 46 Lakeview Ave Yonkers NY Temperature Eng'g Corp U S Hwy 130 Riverton NJ 29 Tetrad Co 62 St Mary St Yonkers NY Temperature Eng'g Corp U S Hwy 130 Riverton NJ 29 Tetrad Co 62 St Mary St Yonkers NY Temperature Eng'g Corp Tu S Huy 130 Riverton NJ 76 Parks	Players, magnetic wire Tape indexes Tape, magnetic Tape, magnetic Tape, prerecorded Tapes, test Tope, prerecorded Tapes, test Topes, test	Rangertone Inc
222 Hartrey Ave Evanston III 13-16-17-19 Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY 4 Sonex Inc 73 S State Rd Upper Darby Pa Sonic Industries 19 Wilbur St Lynbrook NY 10 Speak-O-Phone Recording & Equip Co 23 W 60 St New York 23 NY 35 Standard Record Mfg Co 70 N San Gabrial Blvd Pasadena 8 Calif 33-36 Standard Tool & Mfg Co 237 Laurel Ave Kearny NJ 30-38 Statham Labs Inc 12401 W Olympic Blvd Los Angeles 64 Calif 22 Steelman Phonograph & Radio Co 2-30 Anderson Ave Mt Vernon NY 10-11-12 Stokes Corp F J 5500 Tabor Rd Philadelphia 20 Pa 30 Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY Sylvania Electric Products Inc 1740 Broadway New York 19 NY 10-12-23 Symphonic Radio & Electronic Corp 2-35 Lessey Ave New Brunswick NJ 10-12 Symphony Electronics Corp 925 S Western Ave Los Angeles 6 Calif 10-12 Talking Devices Co 4447 Ilving Park Rd Chicago 41 III 10-11-28-38 Telechrome Mfg Corp 28 Ranick Dr Amityville LI NY 20 Telectro Industries Corp 35-18 37 St Long Island City 1 NY 4 Telectone Co of America 1178 E 180 St Bronx 60 NY 10-12 Televex Co 46 Lakeview Ave Yonkers NY 6-8 Temperature Eng'g Corp U S Hwy 130 Riverton NJ 29 Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo Speedway Houston 6 Texes 27	Players, magnetic wire Tape indexes Tape, magnetic Rape, prerecorded Players, test Pages,	Rangertone Inc

Equalizers 8	Century Projector Corp 129 7 Ave New York 19 NY 2-21	Heath Co 305 Territorial Rd Benton Harbor Mich 2-10
Hearing aids 9	CG Electronics Corp	Hoover Electronics Co 3640 Woodland Ave Baltimore 7 Md 4
Home sound systems	305 Dallas St N E Albuquerque N Mex 12 Collins Radio Co	Hy-Gain Antenna Products Co
Megaphones, electronic 12	855 35 St N E Cedar Rapids Iowa Commercial Radio Sound Corp	Intelex Systems Inc
Musical equipment, electronic 13	652 1 Ave New York 16 AY 5-11-15-18	22 Thames St New York 6 NY 10-19-20 International Business Machines Corp
Musical instruments, electronic 14	Communication Equipment & Eng'g Co 2-4 5646 W Race Ave Chicago 44 Ill 15-17	590 Madison Ave New York 23 NY
Paging systems 15 Preamplifiers	Conn Ltd C G	International Research Associates 2221 Warwick Ave Santa Monica Calif 2
Public address systems 17	1101 E Beardsley Ave Elkhart Ind 21 Conn Telephone & Electric Corp	Johnson Co E F
Speaker systems, marine 18	70 Brittania St Meriden Conn 3-4-11-19-20	Kaiser Aircraft & Electronics Corp
Telephone systems 19	Consolidated Productions Inc Broward Int'l Airport	Toledo Electronics Div
Telephones, sound powered 20	Ft Lauderdale Fla 1-2 Continental Electronics Ltd	Kellogg Switchboard & Supply Co Div IT&T
Theater sound systems 21	302 Oakland St Brooklyn 22 NY 20	K-F Development Co
Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 5	Cooper Electronics Inc 5637 Tulip St Philadelphia 24 Pa 11	2606 Spring St Redwood City Culif 4
Airtronix Development Corp	Crown Controls Co	Kiegl Bros 321 W 50 St New York 19 NY 5
4902 Church Ave Brooklyn 3 NY 2-15-17 Allen Organ Co	40 S Washington St New Bremen Ohio 11 Dalmotron Co	Kuss Industries Inc Tacony & Lewis Sts Philadelphia 24 Pa 5
Locust St Macung.e Pa 14 Allied Radio Corp	534 Laurel St San Carlos Calif 11 Daven Co	Langevin Mfg Corp
100 N Western Ave Chicago 80 III 2-15-17	Route 10 Livingston NJ 5	47-37 Austell Pl Long Island City 1 NY 15-17 Lansing Sound Inc James B
Altec Lansing Corp 1515 S Manchester Ave	Deagan Inc J C 1770 W Berteau Ave Chicago 13 III 13-14	3249 Casitas Ave Los Angeles 39 Calif 21 Lee Electric Inc
Anaheim Calif 2-15-17	Denrad Mfg Co	566 52 St W New York NJ 3
Amco Eng'g Co 7333 W Ainslie St Chicago 31 III 5	310 W Woodard St Denison Texas 2 DeWald Radio Mfg Corp	Lenkurt Electric Co 1105 County Rd San Carlos Calif 4
American Communications Corp	35-15 37 Ave Long Island City 1 NY 9	Ling Electronics Inc 5120 W Jefferson Blvd
280 Broadway New York 17 NY 2-5-17-19 American Machine & Foundry Co	Dollar Communication Equip Robert 50 Drumm St San Francisco 11 Calif 15	Los Angeles 16 Calif
Defense Products Group 1101 N Royal St Alexandria Va 2-11	Doty Acoustical Electronic Labs	Link-Radio Corp 110 Jericho Turnpike
American Mica Insulation Co	DuKane Corp	New Hyde Park LI NY 19
235 Parker Ave Manasquan NJ 6 American Mica Radio Corp	St Charles III 15-17-19 Dunlap Electronics	Loge Sound Engrs J M 2171 W Washington Blvd
235 Parker Ave Manasquan NJ 2	764 9 St Des Moines 14 Iowa g	Los Angeles 18 €alif 11-17 Lynch Carrier Systems Inc
American Sound Products Inc 404 S Wells St Chicago 7 Ill 9	Electrical Communications Inc 765 Clementina St. San Francisco 3 Calif &	695 Bryant St San Francisco 7 Calif 4-19
Ampex Corp 934 Charter St Redwood City Calif 10-21		Lynmar Engineers Inc 1432 N Carlisle St Philadelphia 21 Pa 2-8
Amplivox Ltd	1249 W Loyola Ave Chicago 26 III 17 Electronic Control Systems	McClure Talking Pictures O J 1115 W Washington Blvd Chicago 7 Ill 17
2 Bentiner St London W 1 England 9 Anderton Electronic Lab	Electronic Engly Co	McIntosh Laboratory Inc
129 E 1800 S St Bountiful Utah 2	362 W Bowery St Akron 7 Ohio 15 Electronic Organ Arts	2 Chambers St Binghamton NY 2 Magna Electronics Co
Applied Electronics Co 213 E Grand Ave S San Francisco Calif 1	4878 Eagle Rock Blvd	9810 Anza Ave Inglewood 1 Calif 11
Audio Electronics 15858 35 Ave N E Seattle 55 Wash 19	Los Angeles 41 Calif Electro Sound Corp	Magnasync Mfg Co 5546 Satsuma Ave N Hollywood Calif 2-21
Audio Equipment Co	115 Halleck St Boston 15 Mass 21 Electro-Voice Inc	Marantz Co 4415 Vernon Blvd Long Island City 1 NY 2
805 Middle Neck Rd Great Neck NY 1-9-12-13	Cecil & Carrol Sts Buchanan Mich 15 17	Measurement Eng'g Ltd
Audio-Master Corp	Elm Labs 10 Washington Ave	232 John St Arnprior Ontario Can 2-5-12 Melody Master Mfg Co
17 E 45 St New York 17 NY 17 Audio Sears Corp	Hastings-on-Hudson NV	2842 N Cicero Ave Chicago 41 Ill 2-17 Michigan Electronics Inc
Shepard Hill Rd Roxbury NY 20 Audiovox Inc	Endeco Eng'g Development Co of Los Angeles 922 E Anahcim St	854 N Rockwell St Chicago 22 Ill 1-12-15
123 Worcester St Boston 18 Mass 9	Ercona Corn	Mil Case Corp 35-18 37 St Long Island City NY 5
Aurex Corp 1117 N Franklin St Chicago 10 III 9	551 5 Ave New York 17 NV	Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY 7
Auth Electric Co	Erco Radio Labs Inc 637 Stewart Ave Garden City NY	Motiograph Inc
34-20 45 St Long Island City 1 NY 3-15 Automatic Electric Co	415 Lexington Ava Nam Val. 17 No.	4441 W Lake St Chicago 24 Ill 2-15-21 Motorola Communications & Electronics Inc
1033 W Van Buren St Chicago 7 III 19 Avionics Ltd		4501 W Augusta Blvd Chicago 51 Ill 15
P O Box 200	Federal Telephone & Ball City 1 NY 8-10	MP Engineering Co Fairfield 3 Conn 21
Niagara-on-the-Lake Ontario Canada 15-17 Axler Associates Inc	100 Kingsland Rd Clifton NJ 11-15-19 Feiler Eng'g & Mfg Co	Newcomb Audio Products Co 6824 Lexington Ave Los Angeles 38 Calif 1-2
102-42 43 Ave Corona 68 NY 2	502b N Monticello Ava Shaki, III	North Electric Co 553 S Market St Galion Ohio 4-11-15-19-20
Bell Aircraft Corp P O Box 1 Buffalo 5 NY	Irwin Pa	Oberline Inc
Bell & Gossett Co	Fidelity Amplifier Co 703 Willow St Chicago 14 III	P O Box 921 Beverly Hills Calif 2-15-17 O'Brien Electric Corp
Bell Sound Systems Inc	rust Electronics Com	6514 Santa Monica Blvd
555 Marion Rd Columbus 7 Ohio 1-2-11-17 Beltone Hearing Aid Co	117 Blue Hill Ave Boston 19 Mass 15 Fisher Radio Corp	Hollywood 38 Calif 5-12-15-17-21 Otarion Inc
2900 W 36 St Chicago 32 III 9 Bendix Aviation Corp Bendix Radio Div	21-21 44 Dr Long Island City 1 NY 2 Gates Radio Co	185 Ashford Ave Dobbs Ferry NY 9 Palmer Inc M V
East Joppa Rd Towson 4 Md 1	123 Hampshire St O	4002 Fruit Vallev Rd
Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich	Materials Div	Vancouver Wash 4-11-19 Paravox Inc
Bennett Labs Inc	1285 Boston Ava Builden a com	2056 E 4 St Cleveland 15 Ohio 9
2700 Bay Rd Redwood City Calif 11 Bliss Electronic Corp	General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY	Partrick & Wilkins Co 51 N 7 St Philadelphia 6 Pa 3
Box 366 Sussex NJ 11-15 Bogen Co David	Products Dept Suprementation	Permoflux Products Co
P O Box 500 Paramus NJ 1-15-21	COULTRY Mfc Co	4101 San Fernando Rd Glendale 4 Calif 2-12-18
Brooks & Perkins Inc 1950 W Fort St Detroit 16 Mich 5	1726 N Orchard St Chicago 14 III 11 Gotham Audio Development Corp	Philos Corp Govt & Industrial Div
Browning Labs Inc	2 W 46 St New York 36 NY	4700 Wissahickon Ave Philadelphia 44 Pa 15 Poray Inc
750 Main St Winchester Mass 2 Brush Electronics Co	Grason-Stadler Co W Concord Mass	3369 W Grand Ave Chicago 51 III 9
3405 Perkins Ave Cleveland 14 Ohio 9 Budelman Radio Corp	Grav Research & Development Co Hilliard St Manchester Conn 5-8	Precise Development Corp 2 Neil Ct Oceanside NY 2
375 Fairfield Ave Stamford Conn 2-4-19	Greene Co L Charlton	Precision Hearing Aids 5157 W Grand Ave Chicago 39 Ill 9
Bundy Electronics Corp 171 Fabyan Pl Newark 12 NJ 2	314 Washington St Newton 58 Mass 2 Hal-Hen Co	Production Research Corp
Burroughs Corp	36-14 11 St Long Island City 6 NY 9	Thornwood NY 1-2-15 Protectowire Co
6071 2 Ave Detroit 32 Mich 19-20 Buss-Clement-Doughten & Associates	Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif 11-19	Hanover Mass 3
201 B Studio Hill	Hallicrafters Co	Pulse Techniques Inc 1411 Palisade Ave W Englewood NJ 8
Cable Electric Products	Hamilton Electronics	Pye Canada Ltd
234 Daboll St Providence 7 RI 3 Califone Corp	2726 Pratt Ave Chicago 45 Ill 2-15-17 Hammond Organ Co	82 Northline Rd Toronto 16 Ontario Canada 4-12-19
1041 N Sycamore Ave	4200 W Diversey Ave Chicago 39 III 13-14	Pye Telecommunications Ltd
Hollywood 38 Calif 21 Capitol Transcription Service	Harman-Kardon Inc 520 Main St Westbury LI NY 11	Newmarket Rd Cambridge England 4-6-11-12-15-17-18-19
1120-A Conn Ave	Harvey-Wells Electronics Inc North St Southbridge Mass 1-2	Racon Electric Co 1261 Broadway New York 1 NY 18
N W Washington 6 DC 2-5-8	rottii ot outilottike mass 1-2	1801 Dioadway 11th Total 141

Radio Corp of America	Wheeler Insulated Wire Co	Pye Canada Ltd
Commercial Electronic Products	150 E Aurora St Waterbury 20 Conn 2-20	82 Northline Rd Toronto 16 Ont Canada 5-7
Camden 2 N.I 2-10-11-15-17-19-21 Radio Eng'g Products Ltd	Wide Range Recording Corp 527 N Grand Blvd St Louis 3 Mo 2	Quam Nichols Co 234 E Marquette Rd Chicago 37 III 4-7-9
1080 University St	Zenith Radio Corp	Racon Electric Co
Montreal 3 Quebec Canada 4 Rauland-Borg Corp	6001 Dickens Ave Chicago 39 III 9	1261 Broadway New York 1 NY 1-6-7-9-10 Radio Corp of America Commercial 1-6-7
3515 W Addison St	87—SPEAKERS	Electronic Products Camden 2 NJ 8-9
Chicago 18 Ill 1-2-11-15-17 Remler Co	0/SPEAKEKS	Radio Corp of America 415 S 5 St Harrison NJ 7-8-9-11
2101 Bryant St San Francisco Calif 2-9-15 Rhein Sound Systems Inc	Horns 1	Rockbar Corp
133 Hamilton St New Haven 5 Conn 1-2	Speakers, ceramic 2	650 Halstead Ave Mamaroneck NY Sherwood Electronic Labs Inc
RME Div Electro Voice Inc Buchanan Mich 2	Speakers, crystal 3	2802 W Cullom Ave Chicago 18 III 5
Rowe Industries	Speakers, electrodynamic 4	Sieler Design Products 10460 San Pablo Ave El Cerrito Calif 1-7
1702 Wayne St Toledo 9 Ohio 13-14 Royal Communication Systems	Speakers, electrostatic 5	Stephens Tru-sonic Inc
11462 Euclid Ave Cleveland 6 Ohio 11	Speakers, explosion-proof 6	8538 Warner Dr Culver City Calif 7-8-9 Stromberg-Carlson Div General
Ryan Co S C 1316 Yale Place Minneapolis 3 Minn 9	Speakers, high-fidelity	Dynamics Corp 100 Carlson Rd
Sargent-Rayment Co	Speakers, PM dynamic 9	Rochester 3 NY 7-9-10-11 Symphony Electronics Corp
4926 E 12 St Oakland 1 Calif Scantlin Electronics Inc	Tweeters	925 S Western Ave Los Angeles 6 Calif 9
11624 W Pico Blvd Los Angeles 64 Calif 15	Woofers 11	Techtron Electronics Ltd 583 Gramatan Ave Mt Vernon NY 4-5-7-9
Schrack Electrical Sales Corp 45 W 81 St New York 24 NY 19		Transitron Inc
Schulmerich Electronics Inc	Air Transport Mfg Co	186 Granite St Manchester NH 5-7 Trutone Electronics Inc
Sellersville Pa 13-14 Sieler Design Products	1114 N Sycamore Ave Los Angeles 38 Calif 1 Allied Radio Corp	812 N Highland Ave Los Angeles 38 Calif 9
10460 San Pablo Ave El Cerrito Calif 10 Simplex Equipment Corp	100 N Western Ave Chicago 80 Ill 7	United Audio Products Div United Optical Mfg
55 La France Ave Bloomfield NJ 2	Altec Lansing Corp 1515 S Manchester Ave	202 E 19 St New York 3 NY 7-8-9-10-11
Simpson Mfg Co Mark 32-28 49 St 2-4-6-8	Anaheim Calif 1-4-6-7-9-10-11 American Communications Corp	University Loudspeakers Inc 80 S Kensico Ave White Plains NY 6-7-9
Long Island City 3 NY 10-11-15-17-21	280 Broadway New York 17 NY 1-7	Utah Radio Products Corp
Skiatron Electronics & TV Corp	American Elite Inc 7 Park New York 16 NY	1124 E Franklin St Huntington Ind 4-5-6-7-9
180 Varick St New York 14 NY 14 Smith-Meeker Eng'g Co	American Mica Radio Corp	Huntington Ind 4-5-6-7-9 Voron & Co George
157 Chambers St New York 7 NY 5-15-17-18 Solartron Electronic Group Ltd	235 Parker Ave Manasquan NJ 9 Ampex Corp	535 N 19 St Philadelphia 30 Pa 1-6
Queens Rd Thames Ditton	934 Charter St Redwood City Calif 7	Weathers Industries Div Advance Industries 66 E Gloucester Pike
Survey England 2 Sonex Inc	Atlas Sound Corp 1449 39 St Brooklyn 18 NY 1-6-10	Barrington NJ
73 S State Rd Upper Darby Pa 2-8	Barker Sales Co	Wright Zimmerman Inc New Brighton St Paul 12 Minn 7-9
Spencer-Kennedy Labs 1320 Soldiers Field Rd Boston 35 Mass 8	996 Edgewater Ave Ridgefield NJ 4-5-7-8-9 Becker Electronics Mfg Corp	
Standard Electric Time Co	1091 Rockaway Ave Valley Stream NY 8-9	88—SPEAKER ACCESSORIES
89 Logan St Springfield 2 Mass 15 Standard Instruments	Bell & Howell 7100 McCormick Rd Chicago 45 III 7-9	Baffles
P O Box 11556 Dallas 18 Texas 2	Bell Sound Systems Inc	Cabinets 2
Stanley Webster Labs 5225 W St Charles Rd Berkeley III 9-17	555 Marion Rd Columbus 7 Ohio 7 British Industries Corp	Chambers, acoustic 3
Star-A Electric Mfg Co	80 Shore Rd Port Washington NY 7-10-11	Cloths, grill 4
269 Meserole St Brooklyn 6 NY 3 Stelma Inc	Carbonneau Industries Inc 100 Lexington Ave SW	Coils, crossover 5
190 Henry St Stamford Conn 3-4	Grand Rapids 4 Mich 7-9	Coils, fixed 6 Cones 7
Stephens Tru-sonic Inc 8538 Warner Dr Culver City Calif 21	Commercial Radio Sound Corp 652 1 Ave New York 16 NY 6-7-8	Drivers, PM 8
Stewart Warner Electronics Div	Duotone Co	
1200 N. Costney Ave Chianne Et III		Exciters, field 9
1300 N Kostner Ave Chicago 51 lll 2 Stromberg-Carlson Div General	Locust St Keyport NJ Electrical Products Research &	Grills 10
Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd	Locust St Keyport NJ  Electrical Products Research &  Development Co	Grills
Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY 3-4-15-18-19 Taffet Radio & TV Co	Locust St Keyport NJ 7 Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio 7 Electronic Instrument Co	Grills
Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W	Locust St Keyport NJ Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio Electronic Instrument Co 84 Withers St Brooklyn 11 NY	Grills
Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY 3-4-15-18-19 Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY 12 Talk-A-Phone Co	Locust St Keyport NJ Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio Electronic Instrument Co 84 Withers St Brooklyn 11 NY Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich 7-9	Grills
Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY 3-4-15-18-19 Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY 12 Talk-A-Phone Co 1512 S Pulaski Rd Chicago 23 III 11	Locust St Keyport NJ  Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio Electronic Instrument Co 84 Withers St Brooklyn 11 NY Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich Ercona Corp	Grills
Stromberg-Carlson Div General Dvnamics Corp 100 Carlson Rd Rochester 3 NY Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY Talk-A-Phone Co 1512 S Pulaski Rd Chicago 23 Ill Techtron Electronics Ltd 583 Gramatan Ave Mt Vernon NY 2-8-21	Locust St Keyport NJ Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio Electronic Instrument Co 84 Withers St Brooklyn 11 NY Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich Ercona Corp 551 5 Ave New York 17 NY Ferranti Electric Inc	Grills
Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY 3-4-15-18-19 Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY 12 Talk-A-Phone Co 1512 S Pulaski Rd Chicago 23 III 11 Techtron Electronics Ltd 583 Gramatan Ave Mt Vernon NY 2-8-21 Telectro Industries Corp	Locust St Keyport NJ  Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio Electronic Instrument Co 84 Withers St Brooklyn 11 NY Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich Ercona Corp 551 5 Ave New York 17 NY Ferranti Electric Inc 30 Rockefeller Plaza New York 20 NY 5	Grills 10 Materials, acoustic 11 Materials, sound absorbent 12 Mountings, car top 13 Networks, crossover 14 Shims, adjusting 15 Stands 16 Suspensions (for cones) 17
Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY 3-4-15-18-19 Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY 12 Talk-A-Phone Co 1512 S Pulaski Rd Chicago 23 Ill 11 Techtron Electronics Ltd 583 Gramatan Ave Mt Vernon NY 2-8-21 Telectro Industries Corp 35-18 37 St Long Island City 1 NY 3-8-10-11-13-15-17	Locust St Keyport NJ Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio Electronic Instrument Co 84 Withers St Brooklyn 11 NY Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich Ercona Corp 551 5 Ave New York 17 NY Ferranti Electric Inc 30 Rockefeller Plaza New York 20 NY Gray Research & Development Co Hilliard St Manchester Conn	Grills 10 Materials, acoustic 11 Materials, sound absorbent 12 Mountings, car top 13 Networks, crossover 14 Shims, adjusting 15 Stands 16
Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY 3-4-15-18-19 Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY 12 Talk-A-Phone Co 1512 S Pulaski Rd Chicago 23 Ill 11 Techtron Electronics Ltd 583 Gramatan Ave Mt Vernon NY 2-8-21 Telectro Industries Corp 35-18-37 St Long Island City 1 NY 3-8-10-11-13-15-17 Telephonics Corp	Locust St Keyport NJ Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio Electronic Instrument Co 84 Withers St Brooklyn 11 NY Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich Ercona Corp 551 5 Ave New York 17 NY Ferranti Electric Inc 30 Rockefeller Plaza New York 20 NY Gray Research & Development Co Hilliard St Manchester Conn Hartley Products Co	Grills       10         Materials, acoustic       11         Materials, sound absorbent       12         Mountings, car top       13         Networks, crossover       14         Shims, adjusting       15         Stands       16         Suspensions (for cones)       17         Acoustic Gasket Co       738 N 41 St Philadelphia 4 Pa         Acoustica Associates       15
Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY 3-4-15-18-19 Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY 12 Talk-A-Phone Co 1512 S Pulaski Rd Chicago 23 III 11 Techtron Electronics Ltd 583 Gramatan Ave Mt Vernon NY 2-8-21 Telectro Industries Corp 35-18 37 St Long Island City 1 NY 3-8-10-11-13-15-17 Telephonics Corp Park Ave Huntington LI NY 11-17-20 Telex	Locust St Keyport NJ Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio Electronic Instrument Co 84 Withers St Brooklyn 11 NY Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich Ercona Corp 551 5 Ave New York 17 NY 1-7-10 Ferranti Electric Inc 30 Rockefeller Plaza New York 20 NY Gray Research & Development Co Hilliard St Manchester Conn Hartley Products Co 521 E 162 St New York 51 NY 7 Heath Co	Grills         10           Materials, acoustic         11           Materials, sound absorbent         12           Mountings, car top         13           Networks, crossover         14           Shims, adjusting         15           Stands         16           Suspensions (for cones)         17           Acme Mfg & Gasket Co         738 N 41 St Philadelphia 4 Pa         15           Acoustica Associates         Shore Rd Glenwood Landing LI NY         3           Air Transport Mfg Co         3
Stromberg-Carlson Div General Dvnamics Corp 100 Carlson Rd Rochester 3 NY 3-4-15-18-19 Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY 12 Talk-A-Phone Co 1512 S Pulaski Rd Chicago 23 III 11 Techtron Electronics Ltd 583 Gramatan Ave Mt Vernon NY 2-8-21 Telectro Industries Corp 35-18-37 St Long Island City 1 NY 3-8-10-11-13-15-17 Telephonics Corp Park Ave Huntington LI NY 11-17-20	Locust St Keyport NJ Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio Electronic Instrument Co 84 Withers St Brooklyn 11 NY Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich Ercona Corp 551 5 Ave New York 17 NY 1-7-10 Ferranti Electric Inc 30 Rockefeller Plaza New York 20 NY Gray Research & Development Co Hilliard St Manchester Conn Hartley Products Co 521 E 162 St New York 51 NY Heath Co 305 Territorial Rd Benton Harbor Mich 7 Heppner Mfg Co	Grills
Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY  Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY  12 Talk-A-Phone Co 1512 S Pulaski Rd Chicago 23 III 11 Techtron Electronics Ltd 583 Gramatan Ave Mt Vernon NY 2-8-21 Telectro Industries Corp 35-18 37 St Long Island City 1 NY 3-8-10-11-13-15-17 Telephonics Corp Park Ave Huntington LI NY 11-17-20 Telex 1633 Eustis St St Paul 1 Minn 9 Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo	Locust St Keyport NJ Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio Electronic Instrument Co 84 Withers St Brooklyn 11 NY Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich Ercona Corp 551 5 Ave New York 17 NY 1-7-10 Ferranti Electric Inc 30 Rockefeller Plaza New York 20 NY Gray Research & Development Co Hilliard St Manchester Conn Hartley Products Co 521 E 162 St New York 51 NY Heath Co 305 Territorial Rd Benton Harbor Mich Heppner Mfg Co Box 608 Round Lake III 4-5-8	Grills
Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY 3-4-15-18-19 Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY 12 Talk-A-Phone Co 1512 S Pulaski Rd Chicago 23 Ill 11 Techtron Electronics Ltd 583 Gramatan Ave Mt Vernon NY 2-8-21 Telectro Industries Corp 35-18-37 St Long Island City 1 NY 3-8-10-11-13-15-17 Telephonics Corp Park Ave Huntington LI NY 11-17-20 Telex 1633 Eustis St St Paul 1 Minn 9 Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo Spiedway Houston 6 Texas 1 Transelectric Mfg Co	Locust St Keyport NJ Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio Electronic Instrument Co 84 Withers St Brooklyn 11 NY 7 Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich Ercona Corp 551 5 Ave New York 17 NY 1-7-10 Ferranti Electric Inc 30 Rockefeller Plaza New York 20 NY Gray Research & Development Co Hilliard St Manchester Conn Hartley Products Co 521 E 162 St New York 51 NY 7 Heath Co 305 Territorial Rd Benton Harbor Mich 7 Heppner Mfg Co Box 608 Round Lake III Intelex Systems Inc 22 Thames St New York 6 NY 4-5-7-9-10-11	Grills
Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY 12 Talk-A-Phone Co 1512 S Pulaski Rd Chicago 23 III 11 Techtron Electronics Ltd 583 Gramatan Ave Mt Vernon NY 2-8-21 Telectro Industries Corp 35-18 37 St Long Island City 1 NY 3-8-10-11-13-15-17 Telephonics Corp Park Ave Huntington LI NY 11-17-20 Telex 1633 Eustis St St Paul 1 Minn 9 Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo Speedway Houston 6 Texas 1 Transelectric Mfg Co Hopewell Rd Oxford Pa 11-19	Locust St Keyport NJ Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio Electronic Instrument Co 84 Withers St Brooklyn 11 NY Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich Ercona Corp 551 5 Ave New York 17 NY Ferranti Electric Inc 30 Rockefeller Plaza New York 20 NY Gray Research & Development Co Hilliard St Manchester Conn Hartley Products Co 521 E 162 St New York 51 NY Heath Co 305 Territorial Rd Benton Harbor Mich Heppner Mfg Co Box 608 Round Lake III Hetels Systems Inc 22 Thames St New York 6 NY 4-5-7-9-10-11 International Scientific Industries Corp	Grills
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Stromberg-Carlson Div General Dvnamics Corp 100 Carlson Rd Rochester 3 NY Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY Talk-A-Phone Co 1512 S Pulaski Rd Chicago 23 III 11 Techtron Electronics Ltd 583 Gramatan Ave Mt Vernon NY 2-8-21 Telectro Industries Corp 35-18 37 St Long Island City 1 NY 3-8-10-11-13-15-17 Telephonics Corp Park Ave Huntington LI NY 11-17-20 Telex 1633 Eustis St St Paul 1 Minn Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo Speedway Houston 6 Texas 1 Transelectric Mfg Co Hopewell Rd Oxford Pa 11-19 Trans-Tel Corp 736 N Highland Ave Los Angeles 38 Calif	Locust St Keyport NJ Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio Electronic Instrument Co 84 Withers St Brooklyn 11 NY Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich Ercona Corp 551 5 Ave New York 17 NY 1-7-10 Ferranti Electric Inc 30 Rockefeller Plaza New York 20 NY Gray Research & Development Co Hilliard St Manchester Conn Hartley Products Co 521 E 162 St New York 51 NY Heath Co 305 Territorial Rd Benton Harbor Mich Heppner Mfg Co Box 608 Round Lake III 1-5-8 1ntelex Systems Inc 22 Thames St New York 6 NY 4-5-7-9-10-11 1nternational Scientific Industries Corp 2374 E Hiway 24 Colorado Springs Colo Jensen Mfg Co 6601 S Laramie Ave Chicago 38 III 1-4-7-8-9	Grills
Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY 12 Talk-A-Phone Co 1512 S Pulaski Rd Chicago 23 III 11 Techtron Electronics Ltd 583 Gramatan Ave Mt Vernon NY 2-8-21 Telectro Industries Corp 35-18 37 St Long Island City 1 NY 3-8-10-11-13-15-17 Telephonics Corp Park Ave Huntington LI NY 11-17-20 Telex 1633 Eustis St St Paul 1 Minn 9 Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo Speedway Houston 6 Texas 1 Transelectric Mfg Co Hopewell Rd Oxford Pa 11-19 Trans-Tel Corp 736 N Highland Ave Los Angeles 38 Calif Trutone Electronics Inc 812 N Highland Ave Los Angeles 38 Calif 17	Locust St Keyport NJ Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio Electronic Instrument Co 84 Withers St Brooklyn 11 NY Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich Ercona Corp 551 5 Ave New York 17 NY Ferranti Electric Inc 30 Rockefeller Plaza New York 20 NY Gray Research & Development Co Hilliard St Manchester Conn Hartley Products Co 521 E 162 St New York 51 NY Heath Co Box 608 Round Lake III International Scientific Industries Corp 22 Thames St New York 6 NY 4-5-7-9-10-11 International Scientific Industries Corp 2374 E Hiway 24 Colorado Springs Colo 6601 S Laramie Ave Chicago 38 III 1-4-7-8-9 Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY	Grills
Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY Talk-A-Phone Co 1512 S Pulaski Rd Chicago 23 Ill 11 Techtron Electronics Ltd 583 Gramatan Ave Mt Vernon NY 2-8-21 Telectro Industries Corp 35-18 37 St Long Island City 1 NY 3-8-10-11-13-15-17 Telephonics Corp Park Ave Huntington LI NY 11-17-20 Telex 1633 Eustis St St Paul 1 Minn 9 Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo Sheedway Houston 6 Texas 1 Transelectric Mfg Co Hopewell Rd Oxford Pa 11-19 Trans-Tel Corp 736 N Highland Ave Los Angeles 38 Calif 1 Trutone Electronics Inc 812 N Highland Ave Los Angeles 38 Calif Ultra Hi-Fi Co	Locust St Keyport NJ Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio Electronic Instrument Co 84 Withers St Brooklyn 11 NY Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich Ercona Corp 551 5 Ave New York 17 NY 1-7-10 Ferranti Electric Inc 30 Rockefeller Plaza New York 20 NY Gray Research & Development Co Hilliard St Manchester Conn Hartley Products Co 521 E 162 St New York 51 NY Heath Co 305 Territorial Rd Benton Harbor Mich Heppner Mfg Co Box 608 Round Lake III International Scientific Industries Corp 2374 E Hiway 24 Colorado Springs Colo Jensen Mfg Co 6601 S Laramie Ave Chicago 38 III 1-4-7-8-9 Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY I Ripsch & Associates	Grills
Stromberg-Carlson Div General Dvnamics Corp 100 Carlson Rd Rochester 3 NY Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY Talk-A-Phone Co 1512 S Pulaski Rd Chicago 23 Ill 11 Techtron Electronics Ltd 583 Gramatan Ave Mt Vernon NY 2-8-21 Telectro Industries Corp 35-18 37 St Long Island City 1 NY 3-8-10-11-13-15-17 Telephonics Corp Park Ave Huntington LI NY 11-17-20 Telex 1633 Eustis St St Paul 1 Minn Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo Speedway Houston 6 Texas 1 Transelectric Mfg Co Hopewell Rd Oxford Pa 11-19 Trans-Tel Corp 736 N Highland Ave Los Angeles 38 Calif 1 Trutone Electronics Inc 812 N Highland Ave Los Angeles 38 Calif 17 Ultra Hi-Fi Co 709 Sip St Union City NJ 10 Universal Atomics Corp	Locust St Keyport NJ Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio Electronic Instrument Co 84 Withers St Brooklyn 11 NY Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich Ercona Corp 551 5 Ave New York 17 NY Ferranti Electric Inc 30 Rockefeller Plaza New York 20 NY Gray Research & Development Co Hilliard St Manchester Conn Hartley Products Co 521 E 162 St New York 51 NY Heath Co 305 Territorial Rd Benton Harbor Mich Heppner Mfg Co Box 608 Round Lake III 106 Box 608 Round Lake III 107 Box 108	Grills
Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY 3-4-15-18-19 Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY Talk-A-Phone Co 1512 S Pulaski Rd Chicago 23 Ill 11 Techtron Electronics Ltd 583 Gramatan Ave Mt Vernon NY 2-8-21 Telectro Industries Corp 35-18 37 St Long Island City 1 NY 3-8-10-11-13-15-17 Telephonics Corp Park Ave Huntington LI NY 11-17-20 Telex 1633 Eustis St St Paul 1 Minn 9 Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo Sneedway Houston 6 Texas 1 Transelectric Mfg Co Hopewell Rd Oxford Pa 11-19 Trans-Tel Corp 736 N Highland Ave Los Angeles 38 Calif 11 Trutone Electronics Inc 812 N Highland Ave Los Angeles 38 Calif 17 Ultra Hi-Fi Co 709 Sip St Union City NJ 10 Universal Atomics Corp 50 Bond St Westbury Lf NY 12	Locust St Keyport NJ Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio Electronic Instrument Co 84 Withers St Brooklyn 11 NY Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich Ercona Corp 551 5 Ave New York 17 NY 1-7-10 Ferranti Electric Inc 30 Rockefeller Plaza New York 20 NY Gray Research & Development Co Hilliard St Manchester Conn Hartley Products Co 521 E 162 St New York 51 NY Theath Co 305 Territorial Rd Benton Harbor Mich Heppner Mfg Co Box 608 Round Lake III Intelex Systems Inc 22 Thames St New York 6 NY 4-5-7-9-10-11 International Scientific Industries Corp 2374 E Hiway 24 Colorado Springs Colo Jensen Mfg Co 6601 S Laramie Ave Chicago 38 III 1-4-7-8-9 Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY Klipsch & Associates P O Drawer 96 Hope Ark Knowles Electronics Inc 9400 Belmont Franklin Park III	Grills
Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY  Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY  Talk-A-Phone Co 1512 S Pulaski Rd Chicago 23 Ill 11 Techtron Electronics Ltd 583 Gramatan Ave Mt Vernon NY 2-8-21 Telectro Industries Corp 35-18 37 St Long Island City 1 NY 3-8-10-11-13-15-17 Telephonics Corp Park Ave Huntington LI NY 11-17-20 Telex 1633 Eustis St St Paul 1 Minn 9 Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo Speedway Houston 6 Texas 1 Transelectric Mfg Co Hopewell Rd Oxford Pa 11-19 Trans-Tel Corp 736 N Highland Ave Los Angeles 38 Calif 11 Trutone Electronics Inc 812 N Highland Ave Los Angeles 38 Calif 17 Ultra Hi-Pi Co 709 Sip St Union City NJ 10 University Loudspeakers Inc 80 S Kensico Ave White Plains NY 18	Locust St Keyport NJ Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio Electronic Instrument Co 84 Withers St Brooklyn 11 NY Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich Ercona Corp 551 5 Ave New York 17 NY 1-7-10 Ferranti Electric Inc 30 Rockefeller Plaza New York 20 NY Gray Research & Development Co Hilliard St Manchester Conn Hartley Products Co 521 E 162 St New York 51 NY Heath Co 305 Territorial Rd Benton Harbor Mich Heppner Mfg Co Box 608 Round Lake III 10ternational Scientific Industries Corp 2374 E Hiway 24 Colorado Springs Colo Jensen Mfg Co 6601 S Laramie Ave Chicago 38 III 1-4-7-8-9 Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY Klipsch & Associates P O Drawer 96 Hope Ark Knowles Electronics Inc 9400 Belmont Franklin Park III Lansing Sound Inc James B 3249 Casitas Ave Los Angeles 39 Calif	Grills
Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY  Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY  Talk-A-Phone Co 1512 S Pulaski Rd Chicago 23 III  Techtron Electronics Ltd 583 Gramatan Ave Mt Vernon NY 2-8-21 Telectro Industries Corp 35-18 37 St Long Island City 1 NY 3-8-10-11-13-15-17 Telephonics Corp Park Ave Huntington LI NY 11-17-20 Telex 1633 Eustis St St Paul 1 Minn Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo Speedway Houston 6 Texas 1 Transelectric Mfg Co Hopewell Rd Oxford Pa 11-19 Trans-Tel Corp 736 N Highland Ave Los Angeles 38 Calif Trutone Electronics Inc 812 N Highland Ave Los Angeles 38 Calif Trutone Electronics Inc 812 N Highland Ave Los Angeles 38 Calif 17 Ultra Hi-Fi Co 709 Sip St Union City NJ 10 Universal Atomics Corp 50 Bond St Westbury LI NY 12 University Loudspeakers Inc 80 S Kensico Ave White Plains NY 18	Locust St Keyport NJ Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio Electronic Instrument Co 84 Withers St Brooklyn 11 NY Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich Ercona Corp 551 5 Ave New York 17 NY 1-7-10 Ferranti Electric Inc 30 Rockefeller Plaza New York 20 NY Gray Research & Development Co Hilliard St Manchester Conn Hartley Products Co 521 E 162 St New York 51 NY Theath Co 305 Territorial Rd Benton Harbor Mich Heppner Mfg Co Box 608 Round Lake III 14-5-8 Intelex Systems Inc 22 Thames St New York 6 NY 4-5-7-9-10-11 International Scientific Industries Corp 2374 E Hiway 24 Colorado Springs Colo 5215 Centre St New York 13 NY Klipsch & Associates P O Drawer 96 Hope Ark Knowles Electronics Inc 9400 Belmont Franklin Park III Lansing Sound Inc James B 3249 Casitas Ave Los Angeles 39 Calif	Grills
Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY  Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY  Talk-A-Phone Co 1512 S Pulaski Rd Chicago 23 Ill 11 Techtron Electronics Ltd 583 Gramatan Ave Mt Vernon NY 2-8-21 Telectro Industries Corp 35-18 37 St Long Island City 1 NY 3-8-10-11-13-15-17 Telephonics Corp Park Ave Huntington LI NY 11-17-20 Telex 1633 Eustis St St Paul 1 Minn 9 Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo Sheedway Houston 6 Texas 1 Transelectric Mfg Co Hopewell Rd Oxford Pa 11-19 Trans-Tel Corp 736 N Highland Ave Los Angeles 38 Calif 11 Trutone Electronics Inc 812 N Highland Ave Los Angeles 38 Calif 17 Ultra Hi-Fi Co 709 Sip St Union City NJ 10 University Loudspeakers Inc 80 S Kensico Ave White Plains NY 18 U S Instrument Corp P O Box 33E Charlottesville Va 3-11-19-20 U S Recording Co	Locust St Keyport NJ Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio Electronic Instrument Co 84 Withers St Brooklyn 11 NY 7 Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich Ercona Corp 551 5 Ave New York 17 NY 1-7-10 Ferranti Electric Inc 30 Rockefeller Plaza New York 20 NY Gray Research & Development Co Hilliard St Manchester Conn Hartley Products Co 521 E 162 St New York 51 NY 7 Heath Co 305 Territorial Rd Benton Harbor Mich 7 Heppner Mfg Co Box 608 Round Lake III Intelex Systems Inc 22 Thames St New York 6 NY 4-5-7-9-10-11 International Scientific Industries Corp 2374 E Hiway 24 Colorado Springs Colo Jensen Mfg Co 6601 S Laramie Ave Chicago 38 III 1-4-7-8-9 Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY 1 Klipsch & Associates P O Drawer 96 Hope Ark Knowles Electronics Inc 9400 Belmont Franklin Park III Lansing Sound Inc James B 3249 Casitas Ave Los Angeles 39 Calif Linlar Inc 4101 San Fernando Rd Glendale 4 Calif	Grills
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55 1 St Combridge 41 Mass	2	620 Page Mill Rd Palo Alto Calif	5	Color TV pickup tubes 21
55 1 St Cambridge 41 Mass CELCO Constantine Eng'g Labs Co	-	Penn Fibre & Specialty Co	Ü	Color TV stabil <mark>izing amplifiers 23</mark>
P O Box 555 Mahwah NJ	6	2020 E Westmoreland St	1.7	Color TV sync equipment 24
Coileraft Inc	-	Philadelphia 34 Pa Peerless Electrical Products	15	Color TV test equipment 25
Cary Ill Coil Eng'g & Mfg Co	ō	1515 S Manchester Ave Anaheim Calif 5	-14	Consoles, audio
Roanoke Ind	6	Permoflux Products Co		Consoles, control 27
Coil Winders Inc		1101 San Fernando Rd Glendale 4 Calif	1-2	Consoles, remote switching 28
New York Ave Westbury Ll NY	5-6	PIC Design Corp 477 Atlantic Ave E Rockaway LI NY	15	Control equipment
Collins Radio Co 855 35 St N E Cedar Rapids Iowa	2	Powers Co J J		Controls, came <mark>r</mark> a 30
Commercial Radio Sound Corp	-	P O Box 211 Maywood Ill	1	Controls, master
652 1 Ave New York 16 NY	1	Premier Metal Products Co 337 Manida St New York 59 NY	2	Converters, field sequential 32
Cossor (Canada) Ltd		Racon Electric Co	-	Crystals, color TV frequency
301 Windsor St	2	1261 Broadway New York 1 NY	1.4	control 33
Halifax Nova Scotia Canada Croname Inc	4	Radio Corp of America Commercial		Distribution equipment 34
3701 Ravenswood Ave Chicago 13 Ill	10	Electronic Products Camden 2 NJ 1-2-8 Radio-Matic of America Inc	-1-1	Faders 35
Daven Co		760 Ramsey Ave Hillside NJ	2	
Route 10 Livingston NJ	14	River Edge Sales Corp		Generators, color signal 36
Davis & Co J W 9212 Denton Dr Dallas 35 Texas	1-2	80 Shore Rd Port Washington NY	2	Generators, symc
Dmeter Mfg Co	1-2	R-J Audio Products 80 Shore Rd Port Washington NY	1-2	Generators, sync stretchers 38
22 Larkin Plaza Yonkers NY	14	Rogers Corp	1-2	Generators, TV signal 39
D & M Products	1.0	Rogers Conn	1	Lenses, TV magnifying 40
13144 W McNichols Rd Detroit 35 Mich Dormeyer Industries	1 10	Ross Mfg Co		Lenses, TV projection 41
3418 Milwaukee Ave Chicago 41 Ill	6	2538 Peterson Ave Chicago 45 Ill Scovill Mfg Co	5	Monitors, line & program 65
Duotone Co		99 Mill St Waterbury 20 Conn	10	Pan heads 42
Locust St Keyport NJ	14	Semrow Products Co		Pedestals 43
Flectric Regulator Corp Pearl St Norwalk Conn	9	4317 N Ravenswood Ave Chicago 13 III 1-4	-10	Preamplifiers
Electronic Coils Inc	37	Sherwood Electronic Lans Inc 2802 W Cullom Ave Chicago 18 III	_	Projection units
P O Box 1665 Springfield Mass	6	Sieler Design Products	•	Projectors, TV film
Electronic Specialty Co		10460 San Pablo Ave El Cerrito Calif 1-2	-14	Projectors, TV kaleidoscope 47
5121 San Fernando Rd Los Angeles 39 Calif	1-4	SNC Mfg Co		Projectors, TV mirror multiplex-
Electro Sound Corp	1 1	P O Box 277 Oshkosh Wis Spaulding Fibre Co	6	ers 48
115 Halleck St Boston 15 Mass	2	310 Wheeler St Tonawanda NY	1	Projectors, TV rear screen 49
Electro-Voice Inc	2 =	Stevens Products Inc		Projectors, TV slide 50
Cecil & Carrol Sts Buchanan Mich 1 El-Rad Mfg Co	-2-7	86 Main St E Orange NJ	7	Projectors TV sneets
	5-14	Stromberg-Carlson Div General Dynamics Corp		Projectors, TV special purpose 51
Ercona Corp		100 Carlson Rd Rochester 3 NY	2	Prompting equipment 52
551 5 Ave New York 17 NY Falstrom Co	2-14	Swan Electronics Co		Receivers, cue 53
Falstrom Court Passaic N.J	2	5016 N Austin Ave Chicago 30 III Techtron Electronics Ltd	5-6	Receivers, studio 54
Flock Process Co	-	583 Gramatan Ave Mt Vernon NY	8	Remote pickup, audio 55
375 Main Ave Norwalk Conn	10	Telechrome Mfg Corp	Ü	Remote pickup, video 56
Gee-Lar Mfg Co 418 S Wyman St Rockford III		28 Ranick Dr Amityville LI NY	14	Reverberation units 57
General Cement Mfg Co Div Textron Inc	4	Telectro Industries Corp 35-18 37 St Long Island City 1 NY		Scanners, flying spot 58
400 S Wyman St Rockford III	4	Thermal Refractories Corp	14	Shapers, TV
General Coil Products Corp		4501 Dell Ave N Bergen NJ	1	Special effects equipment 60
43 Roselle St Mineola NY General Coil Products Corp	5	Transonic Inc		Studio transmitter links 61
43 Roselle St Mineola NY	5	808 16 St Bakersfield Calif Triad Transformer Corp	-14	Transmitters, cue
Grand Transformers Inc		4055 Redwood Ave Venice Calif	6	Tripods
Beechtree & Marion Sts Grand Haven Mich Hamilton Electronics	1 6	IV Hardware Mig Co Div Dextron Inc	U	Tubes, color
Transition Electronics				lubes, color
2726 Pratt Ave Chicago 45 III	2	400 S Wyman St Rockford III	1	
2726 Pratt Ave Chicago 45 III Hartley Products Co	2	United Transformer Corn		
Hartley Products Co 521 E 162 St New York 51 NY	2 2 - 7	400 S Wyman St Rockford III United Transformer Corp 150 Varick St New York 13 NY University Loudsneakers Inc.	1	
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Hartley Products Co 521 E 162 St New York 51 NY Harwood Electronics Co 466 W Superior St Chicago 10 III Hawley Products Co N 1 Ave St Charles III	2-7	400 S Wyman St Rockford III United Transformer Corp 150 Varick St New York 13 NY University Loudspeakers Inc 80 S Kensico Ave White Plains NY Univox Corp 102 Warren St New York 7 NY	14	Abbeen Supply Co 179-15 Jamaica Ave Jamaica 32 NY 4 Abrams Instrument Corp 606 E Shiawasse St Lansing 1 Mich 9-30-3
Hartley Products Co 521 E 162 St New York 51 NY Harwood Electronics Co 466 W Superior St Chicago 10 III Hawley Products Co N 1 Ave St Charles III Heath Co	2-7 1 17	400 S Wyman St Rockford III United Transformer Corp 150 Varick St New York 13 NY University Loudspeakers Inc 80 S Kensico Ave White Plains NY Univox Corp 102 Warren St New York 7 NY U S Electronics Corp	14 2 14	Abbeen Supply Co 179-15 Jamaica Ave Jamaica 32 NY 4 Abrams Instrument Corp 606 E Shiawassee St Lansing 1 Mich 9-30-3 Adler Electronics Inc
Hartley Products Co 521 E 162 St New York 51 NY Harwood Electronics Co 466 W Superior St Chicago 10 III Hawley Products Co N 1 Ave St Charles III Heath Co 305 Territorial Rd Benton Harbor Mich	2-7	400 S Wyman St Rockford III United Transformer Corp 150 Varick St New York 13 NY University Loudspeakers Inc 80 S Kensico Ave White Plains NY Univox Corp 102 Warren St New York 7 NY U S Electronics Corp 278 Warren St Lyndhurst NJ Utah Radio Products Corp	14 2	Abbeon Supply Co 179-15 Jamaica Ave Jamaica 32 NY 4 Abrams Instrument Corp 606 E Shiawassee St Lansing 1 Mich 9-30-3 Adler Electronics Inc 1 LeFevre Lane
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Hartley Products Co 521 E 162 St New York 51 NY Harwood Electronics Co 466 W Superior St Chicago 10 III Hawley Products Co N 1 Ave St Charles III Heath Co 305 Territorial Rd Benton Harbor Mich Houlihan Co T J 2508 W Lawrence Ave Chicago 25 III E Mfg 325 N Hoyne Ave Chicago 12 III	2-7 1 17 2	400 S wyman St Rockford III United Transformer Corp 150 Varick St New York 13 NY University Loudspeakers Inc 80 S Kensico Ave White Plains NY Univox Corp 102 Warren St New York 7 NY U S Electronics Corp 278 Warren St Lyndhurst NJ Utah Radio Products Corp 1124 E Franklin St Huntington Ind Victory Mfg Corp 1722 W Arcade Pl Chicago 12 Ul	14 2 14 6	Abbeon Supply Co 179-15 Jamaica Ave Jamaica 32 NY 4 Abrams Instrument Corp 606 E Shiawassee St Lansing 1 Mich 9-30-3 Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 3-17-26-27-29-35-4 Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 33 Aero Electronics Co
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Hartley Products Co 521 E 162 St New York 51 NY Harwood Electronics Co 466 W Superior St Chicago 10 III Hawley Products Co N 1 Ave St Charles III Heath Co 305 Territorial Rd Benton Harbor Mich Houlihan Co T J 2508 W Lawrence Ave Chicago 25 III iE Mfg 325 N Hoyne Ave Chicago 12 III Insuline Corp of America 186 Granite St Manchester NH Jensen Mfg Co 6601 S Laramie Ave Chicago 38 III 1. JFD Mfg Co	2-7 1 17 2 6 15 2-1 2-14	400 S wyman St Rockford III United Transformer Corp 150 Varick St New York 13 NY University Loudspeakers Inc 80 S Kensico Ave White Plains NY Univox Corp 102 Warren St New York 7 NY U S Electronics Corp 278 Warren St Lyndhurst NJ Utah Radio Products Corp 1124 E Franklin St Huntington Ind Victory Mfg Corp 1722 W Arcade Pl Chicago 12 III Vidaire Electronics Mfg Corp 576 W Merrick Rd Lynbrook NY Walsco Electronics Mfg Co 100 W Green St Rockford III Wesbar Stamping Corp	14 2 14 6 1-2 10 -14	Abbeon Supply Co 179-15 Jamaica Ave Jamaica 32 NY 4 Abrams Instrument Corp 606 E Shiawasse St Lansing 1 Mich 9-30-3 Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 3-17-26-27-29-35-4 Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass Aero Electronics Co 1512 N Wells St Chicago 10 Ill 60 Aeroflex Labs 34-06 Skillman Ave Long Island City 1 NY 9-33 Ainslie Corp
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Hartley Products Co 521 E 162 St New York 51 NY Harwood Electronics Co 466 W Superior St Chicago 10 III Hawley Products Co N 1 Ave St Charles III Heath Co 305 Territorial Rd Benton Harbor Mich Houlihan Co T J 2508 W Lawrence Ave Chicago 25 III iE Mfg 325 N Hoyne Ave Chicago 12 III Insuline Corp of America 186 Granite St Manchester NH Jensen Mfg Co 6601 S Laramie Ave Chicago 38 III JFD Mfg Co 6101-16 Ave Brooklyn 4 NY Johns-Manville 22 E 40 St New York 16 NY Johnson Electronics Inc	2-7 1 17 2 6 15 2-1 2-14 4	400 S wyman St Rockford III United Transformer Corp 150 Varick St New York 13 NY University Loudspeakers Inc 80 S Kensico Ave White Plains NY Univox Corp 102 Warren St New York 7 NY U S Electronics Corp 278 Warren St Lyndhurst NJ Utah Radio Products Corp 1124 E Franklin St Huntington Ind Victory Mfg Corp 1722 W Arcade Pl Chicago 12 III Vidaire Electronics Mfg Corp 576 W Merrick Rd Lynbrook NY Walsco Electronics Mfg Co 100 W Green St Rockford III Wesbar Stamping Corp West Bend Wis Wincharger Corp E 7 & Division St Sioux City 2 Iowa Wrought Washer Mfg Co	14 2 14 6 1-2 10 -14	Abbeon Supply Co 179-15 Jamaica Ave Jamaica 32 NY 4 Abrams Instrument Corp 606 E Shiawassee St Lansing 1 Mich 9-30-3 Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 3-17-26-27-29-35-4 Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass Aero Electronics Co 1512 N Wells St Chicago 10 III 60 Aeroflex Labs 34-06 Skillman Ave Long Island City 1 NY 9-3: Ainslie Corp 312 Quincy Ave Airtronix Development Corp 4902 Church Ave Brooklyn 3 NY 46 Air Transport Mfg Co
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Hartley Products Co 521 E 162 St New York 51 NY Harwood Electronics Co 466 W Superior St Chicago 10 III Hawley Products Co N 1 Ave St Charles III Heath Co 305 Territorial Rd Benton Harbor Mich Houlihan Co T J 2508 W Lawrence Ave Chicago 25 III iE Mfg 325 N Hoyne Ave Chicago 12 III Insuline Corp of America 186 Granite St Manchester NH Jensen Mfg Co 6601 S Laramie Ave Chicago 38 III JFD Mfg Co 6601 S Laramie Ave Chicago 38 III JFD Mfg Co 6101-16 Ave Brooklyn 4 NY Johnson Amaville 22 E 40 St New York 16 NY Johnson Electronics Inc 521 Elwell St Orlando Fla Kent TV Inc 505 Driggs Ave Brooklyn 11 NY Kling Metal Spininng & Stamping Co 245 Centre St New York 13 NY Kling Metal Spininng & Stamping Co 505 Driggs Ave Brooklyn 11 NY Kling Metal Spininng & Stamping Co 245 Centre St New York 13 NY Kling Metal Spininng & Stamping Co 51 Cottage Grove St SW Grand Rapids 2 Mich LaPointe Industries Inc 155 W Main St Rockville Conn L E E Inc 625 NY Ave NW Washington 1 DC Leonard Electric Products Co 67 34 St Brooklyn 32 NY Linlar Inc 4101 San Fernando Rd Glendale 4 Calif L O F Glass Fibers Co 1810 Madison Ave Toledo 1 Ohio Lowell Mfg Co 3030 Laclede Station Rd St Louis 17 Mo Lynmar Engineers Inc 1432 N Carlisle St Philadelphia 21 Pa Magic-Vue Television Corp 323 E 13 St New York 3 NY Marintz Co 4415 Vernon Blvd Long Island City 1 NY Mil Case Corp	2-7 1 17 2 6 15 2-1 2-14 4 1-12 5-14 2 1 10 14 1-2 5-6 1-2 12 1 14	400 S Wyman St Rockford III United Transformer Corp 150 Varick St New York 13 NY University Loudspeakers Inc 80 S Kensico Ave White Plains NY Univox Corp 102 Warren St New York 7 NY U S Electronics Corp 278 Warren St Lyndhurst NJ Utah Radio Products Corp 1124 E Franklin St Huntington Ind Victory Mfg Corp 1722 W Arcade Pl Chicago 12 III Vidaire Electronics Mfg Corp 576 W Merrick Rd Lynbrook NY Walsco Electronics Mfg Corp West Bend Wis Wincharger Corp E 7 & Division St Sioux City 2 Iowa Wrought Washer Mfg Co 2275 S Bay St Milwaukee 7 Wis 89—STUDIO EQUIPMENT (Color & Black-and-White) Adapters, field sequential Adapters, line & dot sequential Adapters, line & dot sequential Adapters, video faders Camera dollics Camera mounts Camera switching equipment Cameras, field Cameras, TV film Color III Color V camera chains Color TV camera chains Color TV camera chains	14 2 14 6 1-2 10 -14 -10 13 6 15	Abbeon Supply Co 179-15 Jamaica Ave Jamaica 32 NY Abrams Instrument Corp 606 E Shiawasse St Lansing 1 Mich 9-30-3 Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 3-17-26-27-29-35-4 Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 34-66 Electronics Co 1512 N Wells St Chicago 10 Ill 60 Aeroffex Labs 34-06 Skillman Ave Lont Island City 1 NY 9-3: Ainslie Corp 312 Quincy Ave Quincy 69 Mass Airtronix Development Corp 4902 Church Ave Brooklyn 3 NY Air Transport Mfg Co 1114 N Sycamore Ave Los Angeles 38 Calif 9-26-27-28 Alis Co Louis 427 E Stewart St Milwaukee 1 Wis 35 Altec Lansing Corp 1515 S Manchester Ave Anaheim Calif American Communications Corp 280 Broadway New York 17 NY 26-27-28-25 American Microwave Corp 11754 Vose St N Hollywood Calif Anderton Electronic Lab 129 E 1800 S St Bountiful Utah 3-44-44 Antlab Inc 4956 N High St Columbus 14 Ohio Automation Management Inc Adams St Westboro Mass Avion Div ACF Industries Inc 11 Park Pl Paramus NJ Bache & Co Semon 636 Greenwich St New York 14 NY Earler & Howard Co Fast Ave Westerly RI Barker Sales Co
Hartley Products Co 521 E 162 St New York 51 NY Harwood Electronics Co 466 W Superior St Chicago 10 III Hawley Products Co N 1 Ave St Charles III Heath Co 305 Territorial Rd Benton Harbor Mich Houlihan Co T J 2508 W Lawrence Ave Chicago 25 III iE Mfg 325 N Hoyne Ave Chicago 12 III Insuline Corp of America 186 Granite St Manchester NH Jensen Mfg Co 6601 S Laramie Ave Chicago 38 III 1. JFD Mfg Co 6601 S Laramie Ave Chicago 38 III JFD Mfg Co 6101-16 Ave Brooklyn 4 NY Johnson-Manville 22 E 40 St New York 16 NY Johnson Electronics Inc 521 Elwell St Orlando Fla Kent TV Inc 521 Elwell St Orlando Fla Kent TV Inc Klise Mfg Co 51 Cottage Grove St SW Grand Rapids 2 Mich LaPointe Industries Inc 155 W Main St Rockville Conn L E E Inc 625 NY Ave NW Washington 1 DC Leonard Electric Products Co 67 34 St Brooklyn 32 NY Linlar Inc 4101 San Fernando Rd Glendale 4 Calif L O F Glass Fibers Co 1810 Madison Ave Toledo 1 Ohio Lowell Mfg Co 3030 Laclede Station Rd St Louis 17 Mo Lynmar Engineers Inc 1432 N Carlisle St Philadelphia 21 Pa Magic-Vue Television Corp 323 E 13 St New York 3 NY Marantz Co 4415 Vernon Blvd Long Island City 1 NY Mil Case Corp 35-18 37 St Long Island City NY	2-7 1 17 2 6 15 2-1 4 1-12 5-14 2 1 10 14 1-2 5-6 1-2 12 1 14 2	400 S Wyman St Rockford III United Transformer Corp 150 Varick St New York 13 NY University Loudspeakers Inc 80 S Kensico Ave White Plains NY Univox Corp 102 Warren St New York 7 NY U S Electronics Corp 278 Warren St Lyndhurst NJ Utah Radio Products Corp 1124 E Franklin St Huntington Ind Victory Mfg Corp 1722 W Arcade Pl Chicago 12 III Vidaire Electronics Mfg Corp 576 W Merrick Rd Lynbrook NY Walsco Electronics Mfg Corp West Bend Wis Wincharger Corp E 7 & Division St Sioux City 2 Iowa Wrought Washer Mfg Co 2275 S Bay St Milwaukee 7 Wis  89—STUDIO EQUIPMENT (Color & Black-and-White) Adapters, field sequential Adapters, line & dot sequential Amplifiers, distribution Amplifiers, video faders Camera dollics Camera switching equipment Cameras, TV film Color slide & film scanners Color TV camera chains Color TV camera chains Color TV cequipment  Color TV cequipment	14 2 14 6 1-2 10 -14 -10 13 6 15 12 3 4 4 5 6 7 8 9 0 0 1 2 3 3 4 4 2 5 6 7	Abbeon Supply Co 179-15 Jamaica Ave Jamaica 32 NY 4 Abrams Instrument Corp 606 E Shiawasse St Lansing 1 Mich 9-30-3 Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 3-17-26-27-29-35-4 Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass Aero Electronics Co 1512 N Wells St Chicago 10 Ill 66 Aeroflex Labs 34-06 Skillman Ave Lont Island City 1 NY 9-3: Ainslie Corp 312 Quincy Ave Quincy 69 Mass Airtronix Development Corp 4902 Church Ave Brooklyn 3 NY Air Transport Mfg Co 1114 N Sycamore Ave Los Angeles 38 Calif 9-26-27-28 Allis Co Louis 427 E Stewart St Milwaukee 1 Wis 32 Altec Lansing Corp 1515 S Manchester Ave Anaheim Calif American Communications Corp 280 Broadway New York 17 NY 26-27-28-28 American Microwave Corp 11754 Vose St N Hollywood Calif Anderton Electronic Lab 129 E 1800 S St Bountiful Utah 3-44-44 Antlab Inc 4950 N High St Columbus 14 Ohio Automation Management Inc Adams St Westforo Mass Avion Div ACF Industries Inc 11 Park Pl Patamus NJ Bache & Co Semon 636 Greenwich St New York 14 NY Barler & Howard Co Fast Ave Westerly RI Barker Sales Co 996 Edgewater Ave Ridgefield NJ Baughman Co E J 1914 N Cogswell Rd El Monte Calif Bausch & Lomb Optical Co
Hartley Products Co 521 E 162 St New York 51 NY Harwood Electronics Co 466 W Superior St Chicago 10 III Hawley Products Co N 1 Ave St Charles III Heath Co 305 Territorial Rd Benton Harbor Mich Houlihan Co T J 2508 W Lawrence Ave Chicago 25 III iE Mfg 325 N Hoyne Ave Chicago 12 III Insuline Corp of America 186 Granite St Manchester NH Jensen Mfg Co 6601 S Laramie Ave Chicago 38 III 1. JFD Mfg Co 6601 S Laramie Ave Chicago 38 III JFD Mfg Co 6601 S Laramie Ave Chicago 38 III Johnson Mg Co 6101-16 Ave Brooklyn 4 NY Johnson-Manville 22 E 40 St New York 16 NY Johnson Electronics Ine 521 Elwell St Orlando Fla Kent TV Inc 505 Driggs Ave Brooklyn 11 NY Kling Metal Spininng & Stamping Co 245 Centre St New York 13 NY Klise Mfg Co 51 Cottage Grove St SW Grand Rapids 2 Mich LaPointe Industries Ine 155 W Main St Rockville Conn L E Inc 155 W Main St Rockville Conn L E Inc 155 W Ave NW Washington 1 DC Leonard Electric Products Co 67 34 St Brooklyn 32 NY Linlar Inc 4101 San Fernando Rd Glendale 4 Calif L O F Glass Fibers Co 1810 Madison Ave Toledo 1 Ohio Lowell Mfg Co 3030 Laclede Station Rd St Louis 17 Mo Lynmar Engineers Inc 1432 N Carlisle St Philadelphia 21 Pa Magic-Vue Television Corp 323 E 13 St New York 3 NY Mil Case Corp 35-18 37 St Long Island City NY Mohawk Business Machines Corp	2-7 1 17 2 6 15 2-4 2-14 4 1-12 5-14 2 1 10 14 1-2 1-2 12 1 14 2 14 2 14 2-11	400 S wyman St Rockford III United Transformer Corp 150 Varick St New York 13 NY University Loudspeakers Inc 80 S Kensico Ave White Plains NY Univox Corp 102 Warren St New York 7 NY U S Electronics Corp 278 Warren St Lyndhurst NJ Utah Radio Products Corp 1124 E Franklin St Huntington Ind Victory Mfg Corp 1722 W Arcade Pl Chicago 12 III Vidaire Electronics Mfg Corp 1728 W Arcade Pl Chicago 12 III Vidaire Electronics Mfg Corp 170 W Green St Rockford III Wesbar Stamping Corp E 7 & Division St Sioux City 2 Iowa Wrought Washer Mfg Co 2275 S Bay St Milwaukee 7 Wis  89—STUDIO EQUIPMENT (Color & Black-and-White) Adapters, field sequential Adapters, line & dot sequential Adapters, line & dot sequential Amplifiers, wideo faders Camera cranes Camera dollics Camera switching equipment Cameras, field Camera turrets Color Ty camera chains Color Ty equipment Color Ty film chains	14 2 14 6 1-2 10 -14 -10 13 6 15 12 3 4 4 5 6 7 8 8 9 0 0 1 2 2 5 6 7 8 8 8 9 9 0 1 1 1 2 8 8 9 1 8 8 8 9 1 8 8 8 9 1 8 8 8 8 9 8 8 8 8	Abbeon Supply Co  179-15 Jamaica Ave Jamaica 32 NY  Abrams Instrument Corp 606 E Shiawasse St Lansing 1 Mich 9-30-3 Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 3-17-26-27-29-35-4 Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass 36-66 Electronics Co 1512 N Wells St Chicago 10 Ill 60 Aeroffex Labs 34-06 Skillman Ave Lont Island City 1 NY 9-3: Ainslie Corp 312 Quincy Ave Quincy 69 Mass Airtronix Development Corp 4902 Church Ave Brooklyn 3 NY Air Transport Mfc Co 1114 N Sycamore Ave Los Angeles 38 Calif 9-26-27-28 Alis Co Louis 427 E Stewart St Milwaukee 1 Wis 33: Altec Lansing Corp 1515 S Manchester Ave Anaheim Calif American Communications Corp 280 Broadway New York 17 NY 26-27-28-24 American Microwave Corp 11754 Vose St N Hollywood Calif Anderton Electronic Lab 129 E 1800 S St Bountiful Utah 3-44-44 Antlab Inc 4950 N High St Columbus 14 Ohio Automation Management Inc Adams St Westforo Mass Avion Div ACF Industries Inc 11 Park Pl Patamus NJ Bache & Co Semon 636 Greenwich St New York 14 NY Barler & Howard Co Fast Ave Westerly RI Barker Sales Co 996 Edgewater Ave Ridgefield NJ Baughman Co E J 1914 N Cogswell Rd El Monte Calif Barsch & Lomb Optical Co 628 St Paul St Rochester 2 NY 42-53
Hartley Products Co 521 E 162 St New York 51 NY Harwood Electronics Co 466 W Superior St Chicago 10 III Hawley Products Co N 1 Ave St Charles III Heath Co 305 Territorial Rd Benton Harbor Mich Houlihan Co T J 2508 W Lawrence Ave Chicago 25 III iE Mfg 325 N Hoyne Ave Chicago 12 III Insuline Corp of America 186 Granite St Manchester NH Jensen Mfg Co 6601 S Laramie Ave Chicago 38 III 1. JFD Mfg Co 6601 S Laramie Ave Chicago 38 III JFD Mfg Co 6101-16 Ave Brooklyn 4 NY Johnson-Manville 22 E 40 St New York 16 NY Johnson Electronics Inc 521 Elwell St Orlando Fla Kent TV Inc 521 Elwell St Orlando Fla Kent TV Inc Klise Mfg Co 51 Cottage Grove St SW Grand Rapids 2 Mich LaPointe Industries Inc 155 W Main St Rockville Conn L E E Inc 625 NY Ave NW Washington 1 DC Leonard Electric Products Co 67 34 St Brooklyn 32 NY Linlar Inc 4101 San Fernando Rd Glendale 4 Calif L O F Glass Fibers Co 1810 Madison Ave Toledo 1 Ohio Lowell Mfg Co 3030 Laclede Station Rd St Louis 17 Mo Lynmar Engineers Inc 1432 N Carlisle St Philadelphia 21 Pa Magic-Vue Television Corp 323 E 13 St New York 3 NY Marantz Co 4415 Vernon Blvd Long Island City 1 NY Mil Case Corp 35-18 37 St Long Island City NY	2-7 1 17 2 6 15 2-1 4 1-12 5-14 2 1 10 14 1-2 5-6 1-2 12 1 14 2 14	400 S Wyman St Rockford III United Transformer Corp 150 Varick St New York 13 NY University Loudspeakers Inc 80 S Kensico Ave White Plains NY Univox Corp 102 Warren St New York 7 NY U S Electronics Corp 278 Warren St Lyndhurst NJ Utah Radio Products Corp 1124 E Franklin St Huntington Ind Victory Mfg Corp 1722 W Arcade Pl Chicago 12 III Vidaire Electronics Mfg Corp 576 W Merrick Rd Lynbrook NY Walsco Electronics Mfg Corp West Bend Wis Wincharger Corp E 7 & Division St Sioux City 2 Iowa Wrought Washer Mfg Co 2275 S Bay St Milwaukee 7 Wis  89—STUDIO EQUIPMENT (Color & Black-and-White) Adapters, field sequential Adapters, line & dot sequential Amplifiers, distribution Amplifiers, video faders Camera dollics Camera switching equipment Cameras, TV film Color slide & film scanners Color TV camera chains Color TV camera chains Color TV cequipment  Color TV cequipment	14 2 14 6 1-2 10 -14 -10 13 6 15 12 3 4 4 5 6 7 8 9 9 0 1 2 3 4 4 5 6 7 8 8 9 9 1 9 1 9 1 9 1 9 1 8 9 1 9 1 9 1	Abbeon Supply Co 179-15 Jamaica Ave Jamaica 32 NY 4 Abrams Instrument Corp 606 E Shiawasse St Lansing 1 Mich 9-30-3 Adler Electronics Inc 1 LeFevre Lane New Rochelle NY 3-17-26-27-29-35-4 Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass Aero Electronics Co 1512 N Wells St Chicago 10 Ill 66 Aeroflex Labs 34-06 Skillman Ave Lont Island City 1 NY 9-3: Ainslie Corp 312 Quincy Ave Quincy 69 Mass Airtronix Development Corp 4902 Church Ave Brooklyn 3 NY Air Transport Mfg Co 1114 N Sycamore Ave Los Angeles 38 Calif 9-26-27-28 Allis Co Louis 427 E Stewart St Milwaukee 1 Wis 32 Altec Lansing Corp 1515 S Manchester Ave Anaheim Calif American Communications Corp 280 Broadway New York 17 NY 26-27-28-28 American Microwave Corp 11754 Vose St N Hollywood Calif Anderton Electronic Lab 129 E 1800 S St Bountiful Utah 3-44-44 Antlab Inc 4950 N High St Columbus 14 Ohio Automation Management Inc Adams St Westforo Mass Avion Div ACF Industries Inc 11 Park Pl Patamus NJ Bache & Co Semon 636 Greenwich St New York 14 NY Barler & Howard Co Fast Ave Westerly RI Barker Sales Co 996 Edgewater Ave Ridgefield NJ Baughman Co E J 1914 N Cogswell Rd El Monte Calif Bausch & Lomb Optical Co

Bell Aircraft Corp P O Box 1 Buffalo 5 NY 26-27-28-33	Cecil & Carrol Sts Buchanan Mich 26	Kay Electric Co 14 Maple Ave Pine Brook NJ 19-37-38-40
Bell & Howell 7100 McCormick Rd Chicago 45 Ill 48	Elzee Metal Products Co 775 39 St Brooklyn 32 NY 45	Keithley Instruments Inc 12415 Euclid Ave Cleveland 6 Ohio 46
Bendix Aviation Corp Pacific Div	Fairchild Recording Equipment Co	Kennedy & Co D S 155 King St Cohasset Mass 45
Bendix Aviation Corp Bendix Radio Div	10-40 45 Ave Long Island City 1 NY 44-46	Keystone Electronics Co
East Joppa Rd Towson 4 Md Berndt-Bache Inc Auricon Div	Fecker Inc J W 6592 Hamilton Ave	Kintel (Kay Lab)
6900 Romaine St Hollywood 38 Calif 14	Pittsburgh 6 Pa 9-30-31-41-42-65 Federal Shockmount Corp	5725 Kearny Villa Rd San Diego 12 Calif 12-13-14-48-52
Beseler Co Charles 219 S 18 St	1060 Washington Ave New York 56 NY 9	Kliegl Bros
E Orange NJ 47-49-50-51-52-53 B & K Mfg Co	Feiner & Sons P 522 W 45 St New York 36 NY 26	321 W 50 St New York 19 NY 29-50-52-53-62
3726 N Southport Chicago III 22-25	Femco Inc	Knights Co James Church & Wells Sts Sandwich III 34
Bliley Electric Co Union Station Bldg Erie Pa 34	Irwin Pa 46 Fisher Radio Corp	Kuss Industries Inc Tacony & Lewis Sts
Blonder-Tongue Laboratories 9-25 Alling St Newark 2 NJ 12-47	21-21 44 Dr Long Island City 1 NY 44-46 Flight Research Inc	Philadelphia 24 Pa 26-27-28
Bodde Screen & Projector Co	P O Box 1-F Richmond 1 Va 9-30-31	Labko Scientific Inc 111 W Elm Stillwater Okla 44-46
11541 Bradley Ave San Fernando Calif 51-52 Bogen Co David	Florman & Babb 68 W 45 St New York 36 NY 8-9-62-65	Lab-Tronics Inc 3656 N Lincoln Ave Chicago 13 Ill 46
P O Box 500 Paramus NJ 46 Brooks & Perkins Inc	FluiDyne Eng'g Corp 425 N 7 St Minneapolis 6 Minn 30-31	Land-Air Inc Instrument & Electronic Div
1950 W Fort St	Foto-Video Labs Inc	2133 Adams Ave San Leandro Calif 30-31 Langevin Mfg Corp
Detroit 16 Mich 26-27-28-45-65 Brush Electronics Co	25 Amity St 3-4-5-6-12-13-14-16-17-19-23 Little Falls NJ 24-25-37-38-39-40-44-61	47-37 Austell Pl Long Island City 1 NY 3-5-23-29-44-46
3405 Perkins Ave Cleveland 14 Ohio 44 Buhl Optical Co	Furnas Electric Co 1000 McKee St Batavia III 32	Long Island City 1 NY 3-5-23-29-44-46 L E E Lnc 625 NY Ave N W Washington 1 DC 44
1009 Beech Ave Pittsburgh 33 Pa 41-42	Gates Radio Co	Litton Industries Electronic Display Lab
Burroughs Corp 6071 2 Ave Detroit 32 Mich 60	123 Hampshire St Quincy III 26-27-28-29-44-46	Litton Industries of Calif
Buss-Clement-Doughten & Associates 201 B Studio Hill 3-6-12-14-26	General Crystal Co P O Box 9 Burlington Wis 34	336 N Foothill Rd Beverly Hills Calif 17-21-23-66
Chester Springs Pa 27-28-30-44-46	General Precision Lab Inc 3-6-9-10-12-13	Lytle Eng'g & Mfg Co
Camera Equipment Co 315 W 43 St New York 36 NY 8-9-42-65	63 Bedford Rd 14-16-17-18-19-20-22-23 Pleasantville NY 24-25-29-30-31-32-35-41	1404 San Mateo Blvd SE Albuquerque New Mex 30
Camera Mart Inc 1845 Broadway New York 23 NY 8-62-65	42-45-47-48-50-51-52-53-56 General Radio Co	McCoy Electronics Co Chestnut St & Watts Sts
Capitol Transcription Service	275 Massachusetts Ave Cambridge 39 Mass 20	Mt Holly Springs Pa 34
1120-A Conn Ave N W Washington 6 DC 3-26-27-28-43-44-46	Goodyear Aircraft Corp 1210 Massillon Rd Akron 15 Ohio 45-60	McIntosh Laboratory Inc 2 Chambers St Binghamton NY 46
CBS Hytron Div Columbia Broadcasting System 100 Endicott St	Gordon Enterprises 5362 N Cahuenga Blvd 7-8-9-18-30-31-41	MacLeod & Hanopol 10 Roland St Charlestown 29 Mass 60
Danvers Mass 66	N Hollywood Calif 42-48-49-50-51-52-53 Gorrell & Gorrell	Madison-Fielding Corp 863 Madison St Brooklyn 21 NY 44-46
Century Lighting Inc 521 W 43 St New York 36 NY 51-53	336 Old Hook Rd Westwood NJ 9	Magnetic Amplifiers Inc
Century Projector Corp 729 7 Ave New York 19 NY 45	Gotham Audio Development Corp 2 W 46 St New York 36 NY 3	Majestic Int'l Corp
Chromatic Television Laboratories	GPS Instrument Co 811 Boylston St Boston 16 Mass 5	79 Washington St Brooklyn 1 NY 46 Marantz Co
1501 Broadway New York 36 NY 66 Cinema-Television Ltd Worsley Bridge 14-16	Graflex Inc	4415 Vernon Blvd Long Island City 1 NY 46
Rd Lower Sydenham 17-18-19-20-22-24-25-37 London S E 26 England 38-48-52-53-60-66	154 Clarissa St Rochester 8 NY 9 Gray Research & Development Co	Marconi Instruments Ltd 44 New St New York 4 NY 60
Clegg Labs Div Clegg Inc	Hilliard St Manchester Conn 46-52 Hagan Chemicals & Controls Inc	Maurer Inc J A 37-01 31 St Long Island City 1 NY 9-30-37
Ridgedale Ave Morristown NJ 44 Collins Radio Co	Hagan Bldg Pittsburgh 30 Pa 32	M-B Communication Co 4626 Walnut St Philadelphia 39 Pa 63
855 35 St N E Cedar Rapids Iowa 26-27-28-44-63	Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif 12-31-53	Measurement Eng'g Ltd
Columbia Metal Box Co	Hall-Scott Inc Electronics Div 2950 N Ontario St Burbank Calif 5	Melody Master Mfg Co
260 E 143 St New York 51 NY 28 Commercial Radio Sound Corp	Hamilton Electronics 2726 Pratt Ave Chicago 45 Ill 46	2842 N Cicero Ave Chicago 41 Ill 26 Michigan Electronics Inc
652 1 Ave New York 16 NY 3-31-44-46-62 Communication Equipment & Eng'g Co	Hancock Electronics Corp 12-13-14-15-16	854 N Rockwell St Chicago 22 111 31
5646 W Race Ave Chicago 44 III 28-16	2553 Middlefield Rd 17-18-19-20-22-23-24 Redwood City Calif 25-29-30-31-47-56-58	Midland Mfg Co 3155 Fiberglas Rd Kansas City 15 Kans 34
Consolidated Productions Inc Broward Int'l Airport	Harrison Labs 45 Industrial Rd Berkeley Heights NJ 6-17-23	Mil Case Corp 35-18 37 St Long Island City NY 26-27-28-65
Ft Lauderdale Fla 30-31 Continental Electronics Ltd	Harwood Electronics Co 466 W Superior St Chicago 10 Ill 2	Monitor Products Co 815 Fremont Ave South Pasadena Calif 34
302 Oakland St Brooklyn 22 NY 41-16	Hays Corp	Motiograph Inc
Cutler-Hammer Inc 315 N 12 St_Milwaukee 1 Wis 32	Michigan City Ind 32 Heath Co	Munsell Color Co
Dage TV Div Thompson Products W 10 St	305 Territorial Rd Benton Harbor Mich 46 Heiland Div Minneapolis-Honeywell	10 E Franklin St Baltimore 2 Md 25 Musicolor Inc
Michigan City Ind 12-13-14-15-16-17-18-20-24	5200 E Evans Ave Denver 22 Colo 9	333 N Michigan Ave Chicago 1 III 49-51-53
Dallons Labs 5066 Santa Monica Blvd	Hett Associates 603 Grand Ave Englewood NJ 13	Myers & Sons E A P O Box 8032 Pittsburgh 16 Pa 9
Los Angeles 29 Calif Daven Co 62	Hickok Electrical Instrument Co 10514 Dupont Ave	National Bell Corp 6 Lafayette Ave Brooklyn 17 NY 46
Route 10 Livingston NJ 26-27-28-32-36-55	Cleveland 8 Ohio 17-19-25-37-60	National Cine Equipment Co 209 W 48 St New York 36 NY 8-9-14-44-62-65
Denrad Mfg Co 310 W Woodard St Denison Tex 44-16	Hill Electronic Eng'g & Mfg Co New Kingstown Pa 34	National Company Inc
Devco Eng'g Inc P O Box 387 Caldwell NJ 32	Holland Electronics 2133 Central Dr S	Neill Co R W
Diamond Power Specialty Corp	East Meadow NY 6-17-23 Houston Fearless Div Color Corp of America	4320 Montrose Ave Chicago 41 Ill 26-27-46 Nemeth Inc
Lancaster Ohio 12-14 Donner Scientific Co	11801 W Olympic Blvd	2223 S Carmelina Ave Los Angeles 64 Calif 30
888 Galindo St Concord Calif 5 Downing Crystal Co	Los Angeles 64 Calif 8-9-11-65 Hunt Corp	Norden-Ketay Corp
191 Shaffer Ave Westminster Md 34	453 Lincoln St Carlisle Pa 34 Hupp Electronics Co Div Hupp Corp	Commerce Rd Stamford Conn 12 North Electric Co
DuKane Corp St Charles III 5-26-27-28-46	743 Circle Ave Forest Park Ill 34	553 S Market St Galion Ohio 43 Oberline Inc
Eastman Kodak Co 343 State St	Hupp Electronics Co Div Hupp Corp 265 E Pomfret St Carlisle Pa 34	P O Box 921
Rochester 4 NY 14-30-42-48-52	Hycon Mfg Co 707 S Raymond Ave Pasadena Calif 25	Beverly Hills Calif 26-27-44-46-57 O'Brien Electric Corp
Eastman Pacific Co 2320 E 8 St Los Angeles 21 Calif 10	Industrial TV Inc	6514 Santa Monica Blvd Hollywood 38 Calif 26-27-28-29-32
Eberline Instrument Div Reynolds	369 Lexington Ave Clifton NJ 20 Intelex Systems Inc	Opto Eng'g Co
Electrical 805 Early St Santa Fe N Mex 60	22 Thames St New York 6 NY 63	3524 W Washington Blvd Los Angeles 18 Calif 42
Edmund Scientific Co 101 E Gloucester Pike Barrington NJ 42	International Business Machines Corp 590 Madison Ave New York 23 NY 32	Pace Electrical Instruments Co 70-31 84 St Glendale 27 LI NY 25
Electrend Products Corp	International Crystal Mfg Co	Pacific Optical Corp
Box 110 St Joseph Mich 49 Electronic Eng'g Co of Calif	Jackson Electrical Instrument Co 17-19	Painton & Co Ltd c/o British
180 S Alvarado Los Angeles 57 Calif 39 Electronic Eng'g Co	18 S Patterson Blvd Dayton 2 Ohio 25-37  Jack Scientific Instrument Co Bill	Electronic Sales Co Box 132 Oakland Gardens 64 NY 36
362 W Bowery St Akron 7 Ohio 41-16	143 Cedros St Solana Beach Calif 30-31	Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash 43-63
Electronic Instrument Co 84 Withers St Brooklyn 11 NY 25	Jerrold Electronics Corp 23 & Chestnut Sts Philadelphia 3 Pa 31	Pan Electronics Corp
Electronic Specialty Co 5121 San Fernando Rd	Kaiser Aircraft & Electronics Corp Toledo Electronics Div	Ruth St Griffin Ga 34 Parker Metal Goods Co
Los Angeles 39 Calif 30-31	P O Box 437 Toledo Ohio 46	85 Prescott St Worcester 5 Mass 17

	Guille IIV Declarat Color	A A Metal Products Inc.
Par Products Corp 602 Colorado Ave Santa Monica Calif 11-42	Studio TV Product Sales 342 W 40 St New York 18 NY	Entra Ct Prottleboto VI
Peer Inc	Sylvania Electric Products Inc	ACF Industries Nuclear Prods-Erco Div 48 Lafayette St Riverdale Md 8
1200 Milton St Benton Harbor Mich 27-28	1740 Broadway New York 19 NY 66 Taller & Cooper	A Mar Plantmoning Inc
Pembrex Theatre Supply Corp 1969 S Vermont Ave	75 Front St Brooklyn 1 NY 12	1 LeFevre Lane New Rochelle N 1
Los Angeles 7 Calif 47-48	Tarc Electronics Inc 3-4-5-6-10-16-17-18-19-	Air Transport Mfg Co 1114 N Sycamore Ave
Pentron Corp 777 S Tripp Ave Chicago 24 Ill 44-46	48 Urban Ave 20-22-23-24-25-36-37-38-39- Westbury LI NY 40-43-48-51-52-53-60-62	Los Angeles 38 Calif
Permoflux Products Co	Tarzian Inc Sarkes	Allied Fabricating Corp 1538 N Clybourn Ave Chicago 10 III 8
4101 San Fernando Rd Glendale 4 Calif 46	E Hillside Dr 3-10-12-13-14-24-41-	American District Telegraph Co
Philbrick Researches Inc George A 230 Congress St Boston 10 Mass 5	Bloomington Ind 42-48-50-52-58 Tech-Master Corp	155 6 Ave New York 13 NY American Machine & Foundry Co
Phileo Corp Govt & Industrial Div	75 Front St Brooklyn 1 NY 46	Defense Products Group
4700 Wissahickon Ave 14-16-17-18-19-22 Philadelphia 44 Pa 23-25-40-48-50-52	Tedford Crystal Labs	1101 N Royal St Alexandria Va
Philadelphia 44 Pa 23-25-40-48-50-52 Photocircuits Corp	4126 Colerain Ave Cincinnati 23 Ohio 34 Telechrome Mfg Corp 1-2-3-4-10-12-14-16-17-18	Andrew California Corp 941 E Marylind Ave Claremont Calif 4-5
31 Sea Cliff Ave Glen Cove NY 46	99 Ranick Dr 19-20-22-23-24-20-30-31-00	Audio Accessories Amityville NY 4-5
Photographic Analysis Inc 13273 Ventura Blvd N Hollywood Calif 30-31	Amityville LI NY 37-38-39-40-42-54-56-60-61	Audio Development Co
Photron Instrument Co	Telectro Industries Corp 35-18 37 St Long Island City 1 NY 44-46	2833 13 Ave S Minneopolis Minn 4 Audio Instrument Co
6516 Detroit Ave Cleveland 2 Ohio 5	Telematic Industries Inc	133 W 14 St New York 11 NY
Pickering & Co 309 Woods Ave Oceanside NY 44-46	16 Howard Ave Brooklyn 7 NY 25-46	Authorized Mfrs Service Co 919 Wyckoff Ave Brooklyn 27 NY 11
Polarad Electronics Corp	Telephonics Corp Park Ave Huntington I.1 NY 26-46	Danand Franklin Co
43-20 34 St	TelePrompter Corp	4155 E Hedley St Philadelphia 37 Pa 7-8-9-10
Long Islnd City 1 NY 17-18-19-20-22-25-37 Precise Development Corp	311 W 43 St New York 36 NY 51-54	Brooks & Perkins Inc 1950 W Fort St Detroit 16 Mich 8
2 Neil Ct Oceanside NY 25-37-46	Teletone Co of America 1178 E 180 St Bronx 60 NY 46	Buggie Inc H H
Precision Apparatus Co 70-31 84 St Glendale 27 LI NY 25	Teletronic Labs Inc	P O Box 817 Toledo 1 Ohio
Precision Crystal Lab	1835 W Rosecrans Ave Gardena Calif 46	Bundy Electronic Corp 171 Fabyan Pl Newark 12 NJ 3
2223 Warwick Ave Santa Monica Calif 34	Tel-Instrument Electronics Corp 728 Garden St 16-17-19-20-24	Burroughs Corp
Premier Research Labs Inc 79 7 Ave New York 11 NY 34	Carlstadt NJ 25-35-37-38-40	6071 2 Ave Detroit 32 Mich Burroughs Corp Electronic Instruments Div
Presto Recording Corp	Topatron Inc	1209 Vine St Philadelphia 7 Pa 8
Box 500 Paramus NJ 46	Tran-Kit Electronics Co	Camera Equipment Co
Production Research Corp Thornwood NY 3-5	467 S 5 Ave Mt Vernon NY 44-46	Capital Transcription Service
PSC Applied Research Ltd	Trans-Lux Corp 625 Madison Ave New York 22 NY 51-52-53	1120-A Conn Ave NW Washington 6 DC 6
1500 C'Connor Dr Toronto 16 Ont Canada 30-31	Trutone Electronics Inc	Century Electronics Co 34 Oleander St Cocoa Fla 4-5
Pulse Techniques Inc	812 N Highland Ave Los Angeles 38 Calif 46	Century Lighting Inc
1411 Palisade Ave W Englewood NJ 44 Pye Canada Ltd 5-6-8-9-12-13-14-15	TV Specialty Co	521 W 43 St New York 35 N 1
Pye Canada Ltd 5-6-8-9-12-13-14-15 82 Northline Rd 16-17-18-19-20-21-22-23	350 W 31 St 7-8-44-47-51- New York 1 NY 52-53-62-65	Chester Morton Electronics Corp 10 St & Morton Ave Chester Pa 4
Toronto 16 Ont Canada 24-25-29-35-37-38	TV Utilities Corp	Churchill Lighting Corp
39-40-41-42-58-63 Pye Telecommunications Ltd	112-33 Colonial Ave Corona 68 NY 43	344 Franklin St Melrose 76 Mass 8
Newmarket Rd	Underwood Corp Electronic Computer Div 35-10 36 Ave Long Island City 6 NY 54	Cincinnati Time Recorder Co 1733 Central Ave Cincinnati 14 Ohio 1
Cambridge England 28-34-56-57-58-63-64-65	US Controls Inc	Cinema-Television Ltd
Radio City Products Co Centre & Glendale Sts Easton Pa 25	161 Grand St New York 13 NY 32	Worsley Bridge Rd Lower Sydenham London S E 26 England 11
Radio Corp of America 3-13-15-16-17-18-19	US Recording Co 1121 Vermont Ave 3-26-27-28-	Coil Winders Inc
Commercial Electronic 20-21-22-23-24-25 Products Camden 2 NJ 26-27-28-29-35-37	Washington 5 DC 29-43-44-46	New York Ave Westbury LI NY 2
Products Camden 2 NJ 26-27-28-29-35-37 40-44-46-52-57-58	Viking of Minn	Collins Radio Co 855 35 St N E Cedar Rapids Iowa 6-11
Radio Corp of America	9600 Aldrich Ave S Minneapolis 20 Minn 44-46	Communication Equipment & Eng'g Co
415 S 5 St Harrison NJ 21-66 Rauland-Borg Corp	Virginia Electronics Co	5646 W Race Ave Chicago 44 Ill Daven Co Route 10 Livingston NJ
3515 W Addison St Chicago 18 Ill 46	River Rd & B & O R R Washington 16 DC 27-28	Decatur Electronic Industries Corp
Raytheon Mfg Co Commercial Equip Div 100 River St Waltham 54 Mass 17	Washington 16 DC 27-28 Voron & Co George	203 Orinoco Dr Brightwaters Ll NY 4
100 River St Waltham 54 Mass 17 Raytheon Mfg Co Receiving & Cathode	835 N 19 St Philadelphia 30 Pa 27-46	Deming Indicator Co 1016 Acorn Dr Dayton 9 Ohio
Ray Tube Operations	WacLine Inc 35 S St Clair St Dayton 2 Ohio 31	Dressen-Barnes Corp
55 Chapel St Newton 58 Mass 66 Reeves-Hoffman Div Standard Electronics	Waldorf Instrument Co	250 N Vinedo Ave Pasadena Calif Dukane Corp St Charles Ill
Corp 145 Cherry St Carlisle Pa 34	Div F C Huyck & Sons Park Ave Huntington Station NY 60	DuMont Labs Inc Allen B
Research Electronics Lab Roslyn Pa 25 Resitron Labs Inc	Huntington Station NY 60 Watson Mfg Co	760 Bloomfield Ave Clifton NJ
2908 Nebraska Ave Santa Monica Calif 66	3700 Taylor St Jamestown NY 45	Edison Industries Thomas A Instrument Div 93 Lakeside Ave W Orange NJ
Rhein Sound Systems Inc	Western Electro Acoustic Lab Inc 11789 San Vicente Blvd	Edko Electronic Eng'g Co
133 Hamilton St New Haven 5 Conn 56 RME Div Electro Voice Inc	Los Angeles 49 Calif 46	202 Grand St Brooklyn 11 NY Electronics Corp of America
Buchanan Mich 46	Westinghouse Electric Corp	1 Memorial Dr Cambridge 42 Mass 3
Safetee Glass Co 4717 Stenton Ave Philadelphia 44 Pa 50	Box 284 Elmira NY 66	Elzee Metal Products Co
4717 Stenton Ave Philadelphia 44 Pa 50 Schulmerich Electronics Inc	Westrex Corp 111 8 Ave New York 11 NY 44-46	775 39 St Brooklyn 32 NY Emerson-Sack-Warner Corp
Sellersville Pa 44-46	Wheelock Signals Inc	85 Washington St Somerville 43 Mass 7-8-9
Scientific Radio Products Inc 215 S 11 St Omaha Nebr 34	Dong Dranen 110	Empire Electronics Co 166 River St Paterson 1 NJ 4
Shrader Sound Inc	Whitley Electronics Inc 411 S Chauncey St Columbia City Ind 46	Engineered Electronics Co
2803 M St NW Washington 7 DC 26-27	Wickes Eng'g & Construction Co	506 E 1 St Santa Ana Calif
Simpson Electric Co 5200 W Kinzie St Chicago 44 III 25-40	12 St & Ferry Ave Camden 4 NJ 17-20-25 Wind Turbine Co	Factory Service Co   4615 N 21 St Milwaukee 9 Wisc 8
Simpson Mfg Co Mark	E Market St & P R R W Chester Pa 65	Falstrom Co
32-48 49 St Long Island City 3 NY 46	Winston Electronics Inc	Falstrom Court Passaic NJ 7-8-9-10 Feiner & Sons P
Skiatron Electronics & TV Corp 180 Varick St 1-2-15-16-19-20-21-22-23-24-	4312 Main St Philadelphia 27 Pa 25 Wollensak Optical Co	522 W 45 St New York 36 NY 7-8
New York 14 NY 25-33-35-38-39-10-43-60	850 Hudson Ave Rochester 2 NY 9-41-42	Foto-Video Labs Inc
Smith-Meeker Eng'g Co	Woodwelding Inc	25 Amity St Little Falls NJ 6-11 Gary Wells Co
157 Chambers St New York 7 NY 26-27-28-29	355 N Newport Blvd Newport Beach Calif 56	361 Rockaway Ave Valley Stream NY 8
Solartron Electronic Group Ltd	Wright Electronics Inc	Gates Radio Co
Queens Rd	1519 McGee St Kansas City 5 Mo 34	General Metal Products Co
Thames Ditton Surrey England 46 Sonex Inc	AA CTURIO ACCESCORIES	1010 Centre St Easton Pa 9
73 S State Rd Upper Darby Pa 46	90—STUDIO ACCESSORIES	General Precision Lab Inc 63 Bedford Rd Pleasantville NY 5-6
Sparton Control Systems	Clocks	Golden Co 1054 38 St Brooklyn 19 NY 9
Div Sparks-Withington Co 2301 E Michigan Ave Jackson Mich 32	Clocks	Goslin Electric Mfg Co
Specialties Inc	Fire detection & fighting equip-	2921 W Olive Ave Burbank Calif
Skunks Misery Rd Syosset LI NY 30 Stancil-Hoffman Corp	ment 3	Grinnell Co 260 W Exchange St Providence 1 R1 3
921 N Highland Ave	Patch cords 4	Hamilton Watch Co Allied Products Div
Hollywood 38 Calif 41-46	Patch panels	Columbia Ave Lancaster Pa 1-12
Standard Crystal Co	Power supplies	Harrison Labs 45 Industrial Rd Berkeley Heights NJ 6
1714 Locust St Kansas City Mo 34 Standard Electronics Div Radio Eng'g Labs	Racks, disc storage 7	Heldor Mfg Corp 238 Lewis St Paterson NJ 8
30 & Borden Sts	Racks, equipment 8	Highland Eng'g Co
Long Island City NY 5-12-13-17-23-30-31 Stromberg-Carlson Div	Racks, film storage 9	90 Magnolia St Westbury NY
General Dynamics Corp	Racks, tape storage 10	Holland Electronics 2133 Central Dr S East Meadow NY
100 Carlson Rd Rochester 3 NY 27-46	Test equipment 11	iE Mfg
Strong Electric Corp 87 City Park Ave Toledo 1 Ohio 51-52	Watches, stop 12	325 N Hoyne Ave Chicago 12 III 7-8-9-10

32 Main St Matawan NJ 8	Queens Rd Thames Ditton	1209 E Grand St Elizabeth NJ 4
Insuline Corp of America	Surrey England 7-8 Stackbin Corp	Airflyte Electronics Co 535 Ave A Bayonne NJ 4-30-3
186 Granite St Manchester NH 5-8 Kaiser Aircraft & Electronics Corp	1079 Main St Pawtucket RI 8	Airmec Ltd
Toledo Electronics Div	Standard Electric Time Co	High Wycombe Buckinghamshire England 9-4
P O Box 437 Toledo Okio 3 Kane Mfg Corp	89 Logan St Springfield 2 Mass 1-5 Standard Electronics Corp	Buckinghamshire England 9-4 Air Transport Mfg Co
PO Box 641 Kane Pa 8	Sub Dynamics Corp of America	1114 N Sycamore Ave
Kepco Labs	285 Emmett St Newark 5 NJ 4-5	Los Angeles 38 Calif Airtron Inc
131-38 Sanford Ave Flushing NY Keystone Electronics Corp	Standard Electronics Div Radio Eng'g Labs 30th & Borden Sts Long Island City NY 6	1101 W Elizabeth Ave Linden NJ 20-48
423 Broome St New York 13 NY 5	Stromberg 'Time Corp	A-K Mfg Co
Kidde & Co Walter 1156 Main St Belleville 9 NJ 3	135 S Main St Thomaston Conn 1 Taffet Radio & TV Co	115 S Northwest Hwy Barrington Ill Alden Electronic & Impulse
Kluge Electronics	27-05 Brooklyn-Queens Expressway	Recording Equip Co
5 & Main Sts Albion Nebr 3	W Woodside 77 NY 8	P O Box 125 Westboro Mass 5-21-2- Alford Mfg Co
Lab-Tronics Inc 3656 N Lincoln Ave Chicago 13 III 4	Tarc Electronics Inc 48 Urban Ave Westbury LI NY 5-6-11	229 Atlantic Ave Boston 10 Mass
Lambda Electronics Corp	Tarzian Inc Sarkes E	Allen-Bradley Co 136 W Greenfield Ave 1-2-10-12-17-23-24
11-11 131 St College Point 56 NY 6 Langevin Mfg Corp	Hillside Drive Bloomington Ind 6	Milwaukee 4 Wisc 28-29-32-35-40-41
47-37 Austell Pl Long Island City 1 NY 6	Telechrome Mfg Corp 28 Ranick Dr Amityville LI NY 2-11	Allied Allegri Co 141 River Rd Nutley 10 NJ 25
Leach Corp Inet-Palmer Div	Telectro Industries Corp	American Machine & Foundry Co
4441 S Santa Fe Ave Los Angeles 58 Calif 6	35-18 37 St Long Island City 1 NY 4-5-6-10 Tel-Instrument Electronics Corp	Defense Products Group 1101 N Royal St
Lee Electric & Mfg Co	728 Garden St Carlstadt NJ 11	Alexandria Va 7-8-9 Anchor Products Co
2806 Clearwater St Los Angeles 39 Calif 6 Lord-Taber Co	Temperature Eng'g Corp	2712 W Montrose Ave Chicago 18 Ill 29
40 Ontario St Canandaigua NY 3	U S Hwy 130 Riverton NJ 7-8 Transonic Inc	Andrew Antenna Corp 606 Beach St Whitby Ontario Can
Lowell Mfg Co	808 16 St Bakersfield Calif 6	Andrew California Corp
3030 Laclede Station Rd St Louis 17 Mo 8 Malkin-Illion St	Vapor Heating Corp 80 E Jackson Blvd Chicago 4 Ill 3	941 E Marylind Ave Claremont Calif
400 Coit St Irvington NJ 8	Waltham Watch Co	Andrew Corp 363 E 75 St Chicago 19 Ill
Martindale Electric Co	221 Crescent St Waltham 54 Mass 1-12	Ansley Mfg Co Arthur
Box 617 Edgewater Branch Cleveland 7 Ohio 12	Walton Tool & Die Co 2707 Empire Ave Burbank Calif	New Hope Pa 25 Applied Science Corp of Princeton
Mathis Co G E	Wickes Engre & Construction Co	Applied Science Corp of Princeton P O Box 44 Princeton NJ 4-31-38
6100 S Oak Park Ave Chicago 38 Ill 8	12 St & Ferry Ave Camden 4 NJ 1-2	Arch Gear Works 97 Holmes St N Quincy Mass 17
Measurement Eng'g Ltd 232 John St Arnprior Ontario Can 8	91—SWITCHES	Arch Instrument Co
Mercury Electronic Co	Contactors 1	101 Holmes St N Quincy Mass 17
Box 450 B Red Bank NJ 6 Metal Specialty Products Corp		Acro Div Robertshaw-Fulton Controls Co Box 449 Columbus 16 Ohio 17-28-35-36
27-01 Brooklyn Queens Expressway	Switches, coaxial	Ark-Les Switch Corp
W Woodside 77 NY 7-8-9-10	Switches, commutator 4	51 Water St Watertown 72 Mass 5-28 Arrow-Hart & Hegemann Electric Co
Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill 5	Switches, contact 5	103 Hawthorn St 1-10-11-12-15-17
Mid-West Conveyer Co Metal Products Div	Switches, crossbar	Hartford 3 Conn 18-28-29-35-41
7 & Sunshine Rd Kansas City 15 Kan 20 Mil Case Corp	Switches, decade	Assembly Products Inc Wilson Mills Rd Chesterland 1 Ohio 35
35-18 37 St Long Island City NY 7-8-9-10	Switches, duplex	Atlas Electric Products Co
Mine Safety Appliances Co	Switches, electronic Q	P O Box 1591 Erie Pa 13-18-37-39-40 Auth Electric Co
201 N Braddock Ave Pittsburgh 8 Pa 3 Muckle Mfg Co	SWITCHES, flogf	34-20 45 St Long Island City 1 NY 28
US Hwy 14 Owatonna Minn 9-10	Switches, fluorescent lamp	Automatic Control Co 995 University Ave
Munsell Color Co	starter	St Paul 4 Minn 10-17-24-38
10 E Franklin St Baltimore 2 Md 2-11 Nagog Associates Inc	Switches, foot	Automatic Electric Co 1033 W Van Buren St
Littleton Mass 11	Switches, hermetically sealed 13	Chicago 7 Ill 14-15-17-26-27-28-29-36
Neumade Products Corp 250 W 57 St New York 19 NY 7-8-9-10	Switches, jack	Automatic Metal Products Corp
Neutronic Associates	Switches, knife	323 Berry St Brooklyn 11 NY 3 Automatic & Precision Mfg Co
87-16 116 St Richmond Hill 18 NY 6 N J E Corp	Switches, limit	252 Hawthorne Ave Yonkers NY 13
345 Carnegie Ave Kenilworth NJ 6	Switches, mercury 18	Automatic Switch Co Hanover Rd Florham Park NJ 9-20-29-40
Norma Hoffman Bearings Corp	Switches, microphone	Autron Eng'g Inc
Walker Div Hamilton Ave Stamford Conn 6	Switches, microwave	1254 W 6 St Los Angeles 17 Calif 9-31
Northeastern Engig Inc	SWITCHES, miniature	Avionics Ltd PO Box 200 Niagara-on-the-Lake
25 S Bedford St Manchester NH 8 O'Brien Electric Corp	Switches, oil immersed 22	Ontario Canada 25-31-38
6514 Santa Monica Blvd	Switches, plunger 23	Barker & Williamson Inc Canal & Beaver Sts Bristol Pa 3-9
Hollywood 38 Calif 8	Switches, pressure 24	Bayside Timers
Panellit Inc 7401 N Hamlin Ave Skokie III 1	Switches, printed circuit 25	45-25 162 St Flushing 58 NY 26
PBR Mfg Co	Switches, programmer 26	Beckman Instruments Inc Process Instruments Div
H & Luzerne Sts Philadelphia 24 Pa 8	Switches, pulse	2500 Fullerton Rd Fullerton Calif 29-31
Pennyood Numechron Co 7249 Frankstown Ave Pittsburgh 8 Pa 1	Switches, push-button 28	Beck's Inc 298 E 5 St
Photographic Analysis Inc	Switches, remote control 29 Switches, rotary chopper 30	St Paul 1 Minn 4-5-25-30-31-32-34-37-38
13273 Ventura Blvd N Hollywood Calif 3 Polarad Electronics Corp	Switches, rotary sampling 31	Belock Instrument Corp
43-20 34 St Long Island City 1 NY 11	Switches, rotary selector 32	111-01 14 Ave College Point 56 NY 9-29 Bendix Aviation Corp Red Bank Div
Pomona Electronics Co	Switches, safety-interlock 33	Semiconductor Dept 201 Westwood Ave
1126 W 5 Ave Pomona Calif 5 Power Designs Inc	Switches, slide 34	Long Branch NJ 43 Bird Electronic Corp
89-25 130 St Richmond Hill 18 NY 6	Switches, snap action 35	1800 E 38th St Cleveland 14 Ohio 3
Power Supplies Inc	Switches, stepping 36	Birnbach Radio Co
1005 Olive St Highland III 6	SWITCHES, SUBMINIATURE 37	145 Hudson St New York 13 NY 16-28-34-41 Birtcher Corp Industrial Div
Thornwood NY 3	Switches, telemetering 38	4371 Valley Blvd Los Angeles 32 Calif 12
Pye Canada Ltd 82 Northline Rd	Switches, thermal	B J Electronics Borg-Warner Corp 3300 Newport Ave Santa Ana Calif 4
Toronto 16 Ontario Canada 5-6-10-11	Switches, time delay	3300 Newport Ave Santa Ana Calif 4 Black & Webster Inc
yrene C-O-Two Div	Switches, toggle	445 Watertown St Newton 58 Mass 12
US Hwy 1 Newark 1 NJ 3 Radio City Products Co	Switches, transformer 42	Bogart Mfg Corp 315 Seigel St Brooklyn 6 NY 3-20-48
Centre & Glendale Sts Easton Pa 11	Switches, transistor 43	Bristol Co
Radio Corp of America Commercial Electronic Products	Switches, turret	P O Box 1790 EITT Waterbury 20 Conn 4-10-24-32-38-45
Camden 2 NJ 2_6	Switches, wave change receiver 46	Waterbury 20 Conn 4-10-24-32-38-45 British Electronic Sales
EF Mfg Corp	Switches, wave change,	Box 132 13-21-28-32-
393 Jericho Turnpike Mineola NY 8 Reiner Electronics Co	transmitter 47	Oakland Gardens 64 NY 33-35-36-41 Burling Instrument Co
Centre & Glendale Sts Easton Pa 9	Switches, waveguide	16 River Rd Chatham NJ 39
losco Labs	Acro Div Robertshaw-Fulton Controls Co	Burroughs Corp
29 Moore St Brooklyn 6 NY chirmer-National Alarm Co	Box 449 Columbus 16 Ohio 17-28-35-36	6071 2 Ave Detroit 32 Mich 9 B/W Controller Corp
20 Westside Ave Bergenfield NJ 3	Admittance Namco Corp	2200 E Maple Birmingham Mich 1
ervo Corp of America 2020 Jericho Turnpike New Hyde Park NY 3	Marine St Farmingdale L1 NY 3-20-48 Aero Instrument Co	Cable Electric Products 234 Daboll St 2-8-16-18-21-23-
	11423 Vanowen St N Hollywood Calif 24-25	Providence 7 RI 28 20 24 25 20 41

Cado Mfg Co Div Electromation Co	Edeliff Instruments	407 N Salem Ave 9-23-25-28-29-31
1646 18 St Santa Monica Calif	Edison Industries Thomas A Instrument Div	Arlington Heights III 32-34-35-37-46-47
Capitol Machine Co 36 Balmforth Ave Danbury Conn 15-28	93 Lakeside Ave W Orange NJ 59-40	Guardian Electric Mfg Co 1621 W Walnut St Chicago 12 III 35
Carling Electric Inc	Eitel-McCullough Inc 798 San Mateo Ave San Bruno Calif 45	Guenther Willy K G
505 New Park Ave	Electra Mfg Co 2-12-17-21-24	1138 Massachusetts Ave Arlington Mass
W Hartford 10 Conn 12-23-28-34-35-41 Carter Parts Co	4051 Broadway Kansas City Mo 28-29-35-41	Arlington Mass Gulton Industries Inc
3401 W Madison St.	Electrical Communications Inc 765 Clementina St San Francisco 3 Calif 38	212 Durham Ave Metuchen NJ 24
Skokie III 14-15-23-28-35	Electrical & Physical Instrument Corp	G-V Controls Inc
Centralab Div Globe Union Inc	42-19 27 St Long Island City 1 NY 3-18-19	45 Hollywood Plaza E Orange NJ 39 Gyro Electronics Co
900 E Keefe Ave Milwaukee 1 Wisc 7-9-21-34-35-37-46-17	Electrola Inc	325 Canal St New York 13 NY
Central Electronic Mfrs Inc	7517 N Clark St Chicago 26 Ill 12 Electro-Miniatures Corp	Halax Corp
Sub Nuclear Corp of America	1060 Elm Ave	P O Box 425 Los Gatos Calif
2 Richwood Pl Denville NJ 45	Ridgefield NJ 4-5-26-27-30-31-38	Hamlin Inc 1316 Sherman Ave Evanston III 18
Century Electronics & Instruments Inc 1333 N Utica Ave Tulsa 10 Okla 24	Electronic Instrument Co 84 Withers St Brooklyn 11 NY	Hart Mfg Co
Chatham Electronics Div Gera Corp	Electronic Specialty Co	128 Bartholomew Ave Hartford 1 Conn 3-13-28-35-37-41
W Mt Pleasant Ave Livingston NJ 9-15	5121 San Fernando Rd	Hartford 1 Conn Haydon Co A W
Cherry Electrical Products Corp	Los Angeles 39 Calif 9-13 Electro Snap Switch & Mfg Co	232 N Elm St.
1650 Deerfield Rd Highland Park Ill 2-5-17-21-23-33-35-37	4218 W Lake St 13-17-21-23-28	Waterbury 20 Conn 26-29-38-40
Chicago Telephone Supply Corp	Chicago 24 Ill 32-33-35-37-41	Haydon Switch Inc 536 S Leonard St 2-5-9-13-17-19-21
1142 W Beardsley Ave Elkhart Ind 21-25-35-43	Electro Switch Corp	Waterbury Conn 28-29-32-35-37-41
Elkhart Ind 21-25-35-43 Cinema Eng'g Div	King Ave Weymouth 88 Mass 21-29-32-35-37 Electro Tec Corp	Hays Mfg Co 12 & Liberty Sts Erie Pa 24
Aerovox Corp	4 Romanelli Ave	Healy-Ruff Co 2255 University Ave St Paul 14 Minn 10
1100 Chestnut St Burbank Calif 32	S Hackensack NJ 4-21-26-30-31-32	Heath Co
Clare & Co C P 3101 Pratt Blvd Chicago 45 Ill 15-36	Elektro-Serv Co. 480 Johnson Ave Brooklyn 37 NY 4-25-31-38	305 Territorial Rd Benton Harbor Mich
Clark Controller Co	Elfa Instrument Center	Hetherington Inc 1200 Elmwood Ave 5-8-10-12-13-15-16-17-19
1146 E 152 St 5-10-12-17-22-28-	55 Reade St New York 7 NY 39	Sharon Hill Pa 21-23-28-31-32-33-34-35-37-41
	Endevco Corp 161 E California St	High Vacuum Equipment Corp
Clarostat Mfg Co Washington St Dover NH 32-35	Pasadena Calif 34-36-37-38	2 Churchill Rd Hingham Mass 45
Comar Electric Co	Engineered Electronics	Hoover Electronics Co 3640 Woodland Ave Baltimore 7 Md 9-27-38
3349 Addison St Chicago 18 Ill 9	506 E 1 St Santa Ana Calif 13-36 Epseo Inc	Hubbard Scientific Labs
Computer Instruments Corp 92 Madison Ave Hempstead NY 4-27-31	588 Commonwealth Ave Boston 15 Mass 9	1292 E 3 St Pomona Calif 26-27-34-40 Hupp Electronics Co Div Hupp Corp
Conn Telephone & Electric Corp	Essex Wire Corp	743 Circle Ave Forest Park Ill 29-38
70 Brittania St Meriden Conn 15-19-28-41	1601 Wall St Ft Wayne 6 Ind 1 Farnsworth Electronic Co Pacific Div	Illinois Tool Works Licon Div
Consolidated Productions Inc	815 S San Antonio Rd	1501 N Keeler Ave Chicago 39 III 13-17-21-35-37-41
Broward Int'l Airport Ft Lauderdale Fla 9-29	Palo Alto Calif 21	Chicago 39 III 13-17-21-35-3 (-4)
Continental Electronics Ltd	Farnsworth Electronics Co Div I T & T 3702 E. Pontiac St Ft Wayne Ind 13	89 Commerce Rd Cedar Grove NJ
302 Oakland St Brooklyn 22 NY 3	3702 E Pontiac St Ft Wayne Ind 13 Federal Anti Capacity Switch Corp	Industrial Products Co Div Danbury-
Control Products Inc	72 Kingsley St Buffalo 8 NY 15-45	Knudsen Box 148 Danbury Conn Industrial Timer Corp
306 Sussex St Harrison NJ 17-28-35-39-40	Federal Screw Products Inc	1407 McCarter Hwy Newark 4 N.J
Cook Electric Co	3919 N Kedzie Ave Chicago 18 III 44-41 Federal Telephone & Radio Co Div I T & T	Instrument Development Labs Inc
2700 Southport Ave 1-10-13-21-24-	100 Kingsland Rd Clifton NJ 15-29-32-36	67 Mechanic St Attleboro Mass 4-13-26-30-31-38-40
Chicago 14 Ill 36-37-39-40-45 Cornelius Co	Fenwal Inc Pleasant St Ashland Mass 39	Insuline Corp of America
550 39 Ave N E Minneapolis 21 Minn 13-24	Fisher Co R H 40 Gough St San Francisco 3 Calif 12	186 Granite St
Corona Eng'g Service	Fries Instrument Div Bendix Aviation Corp	Manchester NH 14-16-23-28-4 Intelex Systems Inc
94-52 Corona Ave Elmhurst 73 NY 18	1400 Taylor Ave Baltimore 4 Md 24	22 Thames St New York 6 NY 6-28-32-3
Cramer Controls Corp Centerbrook Conn 40 Cunningham Son & Co James	F-R Machine Works Inc	International Instruments Inc
33 Litchfield St Rowhester 8 NV 6-38	Electronic & X-Ray Div 26-12 Borough Pl Woodside 77 NY 20-48	Box 2954 New Haven 15 Conn 21-3 I-T-E Circuit Breaker Co Special Products
Cutler-Hammer         Inc         2-5-9-10-13-15-16-1315         N 12 St         17-22-24-28-29-32-Milwaukee 1           Milwaukee 1         Wisc         33-34-35-36-40-41	Furnas Electric Co	Div 601 E Eric Ave Philadelphia 34 Pa
315 N 12 St 17-22-24-28-29-32-	1000 McKee St Ratavia III 10-12-17-24-28	Jaidinger Mfg Co
Dale Boisen Co	Gates & Co Geo W	1921 W Hubbard St Chicago 42 III 6-17-28-35-3
2928 Nebraska Ave Santa Monica Calif 25-31	Hempstead Toke & Lucille Ave Franklin Square LI NY 45	Chicago 22 III 6-17-28-35-3 James Vibrapowr Co
Daven Co	Gates Radio Co	4050 N Rockwell St Chicago 18 Ill
Route 10 4-5-7-9-13-21-25-26- Livingston NJ 27-29-30-31-36-37-38	123 Hampshire St Quincy Ill 1	Janco Corp
Defender Instrument & Regulator Co	G-C Electronics Div General Cement-Textron 400 S Wyman St Rockford Ill	3111 Winona Ave Burbank Calif 17-3 Javex P O Box 646 Redlands Calif 3-9-3
Boody III 24-39-45	Gee-Lar Mfg Co	J-B-L Instrument Co
DeMornay-Bonardi Corp	418 S Wyman St	Sycamore & Mill Rd Clifton Heights Pa 5-7-32-4
780 S Arroyo Pkwy Pasadena Calif 20-48	Rockford III 2-3-5-9-28-29-31-34-35-41	Clifton Heights Pa 5-7-32-4 Jennings Radio Mfg Corp
Denson Electronics Corp	General Cement Mfg Co Div Textron Inc 400 S Wyman St Rockford Ill 9-32-34-41	970 McLaughlin Ave
P O Box 122 Rockville Conn 9	General Communication Co	San Jose 8 Calif 2-27-1
Detroit Controls Corp 800 Union Ave	677 Beacon St Boston 15 Mass 3-4-8-20-48	Jerrold Electronics Corp 23 & Chestnut Sts Philadelphia 3 Pa 3-
Bridgeport 1 Conn 17-21-28-35	General Control Co 1200 Soldiers Field Rd 5-9-12-15-17-23	JFD Mfg Co 6101-16 Ave Brooklyn 4 NY 1
Detroit Controls Corp Norwood Controls	Boston 34 Mass 26-28-38-40-41	Jo-Bell Products Inc
Unit 934 Washington St Norwood Mass 4-18-30-31	General Controls Co	5456 W 111 St Oak Lawn Ill 10-3 Johnson Co E F Waseca Minn 9-2
Dialight Corp	801 Allen Ave Glendale 1 Calif 24-26 General Devices Inc	J-V-M Eng'g Co
60 Stewart Ave Brooklyn 37 NY 28	P O Box 253 Princeton NJ 3-13-30-31-38	4633 S Lawndale Ave Lyons Ill 3-20-4
Diamond Antenna & Microwave Corp 7 North Ave Wakefield Mass 3-48	General Electric Co Construction Materials	Kahl Scientific Instrument Corp P O Box 1166 El Cajon Calif
7 North Ave Wakefield Mass 3-48 DieJectric Products Eng'g Co	Div 1285 Boston Ave Bridgeport 2 Conn 11-15-18-21-28-29-32-35-41	Kellogg Switchboard & Supply Co
Raymond Me 3-20	General Electric Co Apparatus Sales Div	Div I T & T 79 W Monroe St
Dietz Co Henry G	1 River Rd	Chicago 3 Ill Kinney Mfg Div Vacuum Equip Div
12-16 Astoria Blvd Long Island City 2 NY 24-36-40-45	Schenectady 5 NY 1-2-10-16-17-28-29-40	NY Air Brake Co 3529 Washington St
Dimco-Gray Co 207 E 6 St Dayton 2 Ohio 40	General Electric Co Electric Components Div 1 River Rd Schenectady 5 NY 45	Boston 30 Mass
Dittmore-Freimuth Corp 2517 E Norwich St	General Electric Co Ltd of England	Kirkland Co H R
Milwaukee 7 Wisc 29-30-31-32	c/o IMTRA Corp 58 Charles St	8 King St Morristown 4 NJ Kolton Electric Mfg Co
D & M Products	Cambridge 41 Mass 36 General Radio Co	123 NJ Railroad Ave Newark 5 NJ
12144 W McNichols Rd Detroit 35 Mich 32 Douglas Microwave Co	275 Massachusetts Ave	Kulka Electric Mfg Co
252 E 3 St Mt Vernon NY 3-8-20-48	Cambridge 39 Mass 7	633 S Fulton Ave Mt Vernon NY 11-4 LaPointe Industries Inc
Du Mont Labs Inc Allen B	Giannini & Co G M 918 Green St	155 W Main St Rockville Conn 2-2
760 Bloomfield Ave Clifton NJ 9	Pasadena Calif 4-13-24-31-36-38-45	Leach Corp Leach Relay Div
Dunlap Electronics 764 9 St DesMoines 14 Iowa 25	G M Mfg Co 134 W 26 St New York 1 NY 18	5915 Avalon Blvd Los Angeles 3 Calif
Dynamics Instrumentation Co	Good Electric Corp Natick Mass 26-43	Lear Inc 3171 S Bundy Drive
Div Alberhill Corp	Gordos Corp 250 Glenwood Ave Bloomfield NJ 18	Santa Monica Calif 24-2
1118 Mission St S Pasadena Calif 9 Eagle Electric Mfg Co	Gorn Electric Co Stamford Conn 10-17-18-24	Lektra Labs Inc
23-10 Bridge Plaza S	Graphik Circuits Div Cinch Mfg Corp	154 11 Ave New York 11 NY Leeds & Northrup Co
Long Island City 1 NY 8-16-41	200 S Turnbull Canyon Rd La Puente Calif 25	4970 Stenton Ave Philadelphia 44 Pa
Eastern Specialty Co 3617 N 8 St Philadelphia 40 Pa 32	Grason-Stadler Co W Concord Mass 9	Lewis Eng'g Co
Eastman Pacific Co 12-17-21-22-24	Grayhill Inc	339 Church St Naugatuck Conn
2320 E 8 St Los Angeles 21 Calif 28-35-39-41	561 Hillgrove Ave La Grange III 21-28-37 Gray Instrument Co	Lieco Inc 3610 Oceanside Rd
Ebert Electronics Corp 212-26 Jamacia Ave Queens Village 28 NY 1	200 E Church Lane Philadelphia 44 Pa 7	Oceanside LI NY 20-11-37-41-4

Linlar Inc 4101 San Fernando Rd	Penta Laboratories Inc	Techniques Inc
Glendale 4 Calif 12	312 N Nopal St Santa Barbara Calif 45 Pentron Corp	52 Jackson Ave Hackensack NJ 2 Telechrome Mfg Corp
Luhrs & Co C H 297 Hudson St Hackensack NJ 20	777 S Tripp Ave Chicago 24 III 13-24-45 Permoflux Products Co	28 Ranick Dr Amityville Ll NY
Lumenite Electronic Co 407 S Dearborn St Chicago 5 Ill 9-10-40	4101 San Fernando Rd Glendale 4 Calif 19	1 elemeter Magnetics Inc 2245 Pontius Ave
Luxor Lighting Products Inc	Peschel Electronics Inc 13 Garden St New Rochelle NY 9	Los Angeles 64 Calif 9-27-4 Teletronics Lab Inc
350 5 Ave New York 1 NY Lysco Mfg Co	Philadelphia Scientific Glass Co Box 46C Paleton Rd	54 Kinkel St Westbury NY
1401 Clinton St Hoboken NJ Lytle Eng'g & Mfg Co	Quakertown Pa	Telectro Industries Corp 35-18 37 St
1404 San Mateo Blvd SE	Photocircuits Corp 31 Sea Cliff Ave Glen Cove NY 25	Long Island City 1 NY 12-13-26-31-46 Tenistron Inc
Albuquerque New Mexico 26-31 McGill Mfg Co Electrical Div	Pioneer Patents & Products Co 3720 N New England Ave	Pine Hill Harvard Mass 11 Thompson Products Inc Electronics Div
909 N Lafayette St	Unicago 34 III 5-8-9-19-23-28-35	2196 Clarkwood Rd Cleveland 3 Ohio 3-20-48
McQuay-Norris Mfg Co	Pollak Corp Joseph 81 Freeport St	Time-O-Matic Inc P O Box 850 Danville Ill
2320 Marconi St St Louis 10 Mo 24 Mack Electric Devices Inc	Boston 22 Mass 5-29-31-32-34-35-41	Torsion Balance Co 35 Monhegan St Clifton NJ 37-4
48 Glenside Ave Wyncote Pa 1-18	Potter Aeronautical Corp P O Box 542 Union NJ	Touch-Plate Mfg Corp
Mack Electronics Div Mack Trucks Inc 40 Leon St Boston 15 Mass 9	Powers Regulator Co	P O Box 1970 Long Beach 1 Calif 28-29 Trad Electronics Corp
Mallory & Co Inc P R	Premier Instrument Corp	1001 1 Ave Asbury Park NJ Transco Products Inc
Indianapolis 6 Ind 32-34-35-37	52 W Houston St New York 12 NY 20-48 Pye Canada Ltd	12210 Nebraska Ave
Manning Maxwell & Moore Inc Shelter Rock Lane Danbury Conn 24-39-45	82 Northline Rd	Los Angeles 25 Calif 3-20 Transitron Inc
Mason Electric Corp	Toronto 16 Ontario Canada 17-28-45-46 Pye Telecommunications Ltd	186 Granite St Manchester NH 41 Transval Eng'g Corp
3839 Verdugo Rd Los Angeles 65 Calif 2 Master Appliance Mfg Co	Newmarket Rd Cambridge England 20-46-17 Pyle-National Co	10401 W Jefferson Blvd
530 4 St Racine Wisc 35-41 Mechanical Products Inc	1334 N Kostner Ave Chicago 51 III 22	Culver City Calif Tripl-T Electronics Co
1824 River St Jackson Mich 2	Pyramid Instrument Corp 630 Merrick Rd Lynbrook LI NY 29	Box 5352 Pasadena Calif 43 Tuttle & Kift Inc
Mercoid Corp 4201 Belmont Ave	PO Pow 27 Malla	1823 N Monitor Ave Chicago 39 III 30-32
Chicago 41 III 10-13-18-24 Mercury Contacts Inc	Radio Eng'g Products Ltd	Ucinite Co Div United-Carr Fastener Corp 459 Watertown St
PO Box 615-E Far Hills Sta	1080 University St Montreal 3 Quebec Canada	Newtonville 60 Mass 21-25-28-32-35 Ulanet Co George
Dayton 9 Ohio 18 Metals & Controls Corp	Ransom Research	413 Market St Newark 5 NJ 39-40
Spencer Thermostat Div 48 Forest St	Wellance Automatic Lighting Co	Unimax Switch Div W L Maxson Corp Ives Rd 13-17-21-23
Attlehoro Mass 2-13-17-21-28-35-39 Micro Switch Div	Resitron Labs Inc. 40	Wallingford Conn 28-33-35-37 United-Carr Fastener Corp
Minneapolis-Honeywell Regulator Co Chicago & Spring Sts 9-12-13-17-18-21-23-28-	2908 Nebraska Ave	Cambridge 42 Mass 35
Freeport Ill 32-33-34-35-37-39-41	Revere Corp of America	United Control Corp 4540 Union Bay Pl Seattle 5 Wash 9-10-39
Miller-Robinson Co 7007 Avalon Blvd	Wallingford Conn 10-13-37 Richards Electrocraft Inc	United Electric Controls Co 85 School St
Los Angeles 3 Calif 24	3739 N Kedzie Ave Chicago 18 III 5-28-41 Roanwell Corp	Watertown 72 Mass 2-24-35-39-45 United Transformer Corp Pacific Div
Milli-Switch Corp 1742 Berkeley St 13-17-21-22-	662 Pacific St Brooklyn 17 NV	4008 W Jefferson Blvd
Santa Monica Calif 28-35-37-41 Milwaukee Gas Specialty Co	RobertShaw-Fulton Controls Co Aeronautical Div	Los Angeles 16 Calif 13-26-36 Universal Circuit Controls Corp
730 N Jackson St Milwaukee 1 Wisc 39	Santa Ana Freeway at Euclid Ave Anaheim Calif	3610 Oakton St
Minn-Honeywell Regulator Co 2753 4 Ave S 13-17-18-21-23-	Radale Mfg Co	Uniwave Inc
Minneapolis 8 Minn 24-28-35-41-45 Minneapolis-Honeywell Regulator Co	Roflan Co Topsfield Mass 5-9-16-19 28	2 Marine St Farmingdale NY 1-3-48 U S Gauge Div
Industrial Div Wayne & Windrim Aves	Sage Labs Inc. 25	American Machine & Metals Sellersville Pa 24
Philadelphia 44 Pa 15-17-32 Modern Industries Inc	30 Guinan St Waltham 54 Mass 20-48 Sampson Chemical & Pigment Corp	US Instrument Corp
2601 Colorado Ave Santa Monica Calif 43 Molded Insulation Co	2830 W Lake St	PO Box 33E Charlottesville Va 14-28-29-32-36
335 E Price St Philadelphia 44 Page 29	Chicago 12 Ill 9-13-18-21-25-37-45 Sangamo Electric Co Springfield Ill 39	Vacudent Mfg Co 975 E 5 St S Salt Lake City 2 Utah 9
Monroe Calculating Machine Co Electronics Div Morris Plains NJ 9	Sarco Co 350 Fifth Ave New York 1 NY 17 Scaico Controls Inc	Vacuum Tube Products Co
Montgomery Mfg Co	Market St	506 S Cleveland St Oceanside Calif 9-45 Vapor Heating Corp
Mossman Inc Donald P	Schrack Electrical Sales Corp	80 E Jackson Blvd Chicago 4 Ill 1-9-13-18-32-37-39
P O Box 265 Brewster NY 15-28 Muirhead & Co Ltd	45 W 81 St 1-2-5-17-28-29 New York 24 NY 33-35-36-40-42	Vapor Recovery Systems Co
Beckenham Kent England 7-15 Muirhead Instruments Inc	Sealectric Switch & Relay Corp 6025 N Keystone Ave	2820 N Alameda St Compton Calif 26-29-38
677 5 Ave New York 22 NY 7-15-32	Chicago 30 Ill 5-13-17-32-35-36	Vemaline Products Co PO Box 222 Hawthorne NJ 12
Muter Co 1255 S Michigan Ave Chicago 5 Ill 34-35	Sensory Inc Pleasantville Rd New Vernon NJ 26	Victory Eng'g Corp
Mycalex Corp of America	Shallcross Mfg Co Jackson & Pusey Aves	117 Springfield Rd Union NJ 38-39-40 Wade Electric Products Co
Nemeth Inc	Collingdale Pa 5-7-9-21-28-32-37	Box 271 Sturgis Mich 23-28-34 Walkirt Co
2223 S Carmelina Ave Los Angeles 64 Calif 24-26-30-31-32-36-40	Skiatron Electronics & TV Corp 180 Varick St New York 14 NY 9	141 W Hazel St Inglewood 3 Calif 9
Network Mfg Corp	505 Washington Ave Relleville N.I. 12	Walsco Electronics Mfg Co 100 W Green St Rockford III 16-28-34-35-41
Newark Controls Co	Slater Electric & Mfg Co 45 Sea Cliff Ave	Waveguide Inc 14837 Oxnard St Van Nuys Calif 48
15 Ward St Bloomfield N.J 10-24-45 North Electric Co	Glen Cove NY 5_8_12_98 98 41	Waveline Inc
553 S Market St	Slip Ring Co of America 3612 W Jefferson Blvd	Passaic Ave Caldwell NJ 20-21 Weltronic Co
Northern Plastics Corp 2nd	Los Angeles 16 Calif 25-38-40 Smith Inc Herman H	19500 W 8 Mile Rd Detroit 19 Mich 9 Western Int'l Co
Market St LaCrosse Wisc 25 Notnac Mfg Co	2326 Nostrand Ave	45 Vesey St New York 7 NY 41
1410 2 St SW Canton 2 Objo	Brooklyn 10 NY 9-15-16-28-34-35-41 Spectrol Electronics Div Carrier Corp	White Electron Devices Inc Rozer 92 4 Ave Haskell NJ 9
NRC Equipment Corp Sub National Research Corp	San Gabriel Calif	Wilcolator Co
Newton Highlands of Mr.	Sperry Gyroscope Co Div Sperry Rand Corp	1001 Newark Ave Elizabeth NJ 2-35-40 Wind Turbine Co
N K K Mfg & Engly Co	Great Neck NY Stackpole Carbon Co St Marys Pa 25-34-35	E Market St & P R R W Chester Pa 32 Winterburn Mfg Co
4601 W Addison St Chicago 41 III 20-48 Oak Mfg Co	Star-A Electric Mfg Co 269 Meserole St Brooklyn 6 NY 11_41	11 Whittemore St Putnam Conn 29-33
1260 N Clybourn Ave	Stromberg-Carlson Div General Dynamics Corp	Wirt Co Continental Carbon Div 5221 Greene St Philadelphia 44 Pa 34
Ohmite Mfg Co	100 Carlson Rd Rochester 3 NY 15-28-36 Sullivan Ltd H W	Zenith Electric Co 152 W Walton St Chicago 10 III 1
3601 Howard St Skokie III 5-32 Painton & Co Ltd	80 Shore Rd Port Washington NY 7 Switchcraft Inc	or Chicago IV III I
c/o British Electronic Sales Co	1328 N Halsted St	AS TRATES
Oakland Gardens 64 NY 21-28-32-35-41	Systron Corp	92—TESTERS
Palmer Inc M V 4002 Fruit Valley Rd	2055 Concord Blvd Concord Calif 9 Tarzian Inc Sarkes E	Testers, Battery
Vancouver Wash 32-36-37	Hillside Drive Bloomington Ind 20 Technicraft Labs Inc	Testers, cable 2
Parker Metal Goods Co 85 Prescott St Worcester 5 Mass 9	Thomaston-Waterbury Rd	Testers, capacitar
	Thomaston Conn 20-48	

		Fox Products Co
Testers, circuit	Booth Co Arthur E 265 S Alexandria Ave	4720 N 18 St Philadelphia 41 Pa 1
Testers, coil	Los Angeles 4 Calif	Franklin Electronics Inc
Testers, computer 7	Briggs Associates 10 DeKalb St Norristown Pa 10-21-22	Freed Transformer Co
Testers, continuity	10 DeKalb St Norristown Pa 10-21-22 Bright Star Industries	1718-36 Weirfield St Brooklyn 27 NY 6-11-13
Testers, crystal 9	600 Getty Ave Clifton NJ 8	F-R Machine Works Inc Electronic & X-Ray Div 26-12 Borough Pl
Testers, diode	British Industries Corp 80 Shore Rd Port Washington NY 16	Woodside 77 NY
Testers, distortion	Browning Labs Inc	Fretco Inc
Testers, guided missile 12	750 Main St Winchester Mass 14	406 N Craig St Pittsburgh 13 Pa 21 General Cement Mfg Co Div Textron Inc
Testers, insulation	Burr-Brown Research Corp Route 4 Box 139 Tucson Ariz 3	400 S Wyman St Rockford III
Testers, microwave 14	Burroughs Corp	General Communication Co
Testers, motor	6071 2 Ave Detroit 32 Mich 7-12-17	General Electric Co Apparatus Sales Div
Testers, multitester 16	Cable Electric Products 234 Daboll St Providence 7 RI 1-2	1 River Rd Schenectady 5 NY
Testers, radar	Calidyne Co 120 Cross St Winchester Mass 24	General Kinetics Inc 555 23 St S Arlington 2 Va 7
Testers, synchro error 19	Calif Technical Industries	General Radio Co
Testers, thickness, ultrasonic 20	1421 Old County Rd Belmont 10 Calif 2-5-8-13-14	275 Massachusetts Ave
Testers, transistor	Canoga Corp	Cambridge 39 Mass General Scientific Equipment Co
Testers, tube, automatic 22	5955 Sepulveda Blvd Van Nuys Calif 12 Central Electronics Inc	7516 Limekiln Pike Philadelphia 50 Pa I
Testers, tube socket 23	1247 W Belmont Ave Chicago 13 lll 4	General Transistor Corp
Testers, vibration 24	Central Research Labs Red Wing Minn 13	Canisco Inc
	Century Engineers 2741 N Naomi St Burbank Calif 5-7-8	2233 Federal Ave Los Angeles 64 Cant 12
Admiral Corp	CG Electronics Corp	Giannini & Co G M 918 E Green St Pasadena Calif 7-12
3800 W Cortland St Chicago 47 Ill 17	305 Dallas St N. E. Albuquerque, New Mex 21	Goodyear Aircraft Corp
Admittance Namco Corp Marine St Farmingdale LI NY 14	N E Albuquerque New Mex 21 Chicago Industrial Instrument Co	1210 Massillon Rd Akron 15 Ohio 12-17
Advanced Electronics Inc	865 N Sangamon St	Gotham Audio Development Corp 2 W 46 St New York 36 NY 15
94 Silas Deane Hwy	Chicago 22 Ill 1-3-4-5-6-8-10-16-21	Gray Instrument Co
Rocky Hill 9 Conn 24 Advance Instrument Corp	Christie Electric Corp 3410 W 67 St Los Angeles 43 Calif 1	200 E Church Lane
1709 F St Belmar NJ 19	Chromatic Television Laboratories	Grem Eng'g Co
Aero Electronics Co 1512 N Wells St Chicago 10 lll 19	1501 Broadway New York 36 NY 17 Cinema-Television Ltd	488 1 St Brooklyn 15 NY 14-11
1512 N Wells St Chicago 10 lll 19 Airmec Ltd	Worsley Bridge Rd Lower Sydenham	Gulton Industries Inc 212 Durham Ave Metuchen NJ 20-21-24
High Wycombe	London S E 26 England 4-22 Clifton Precision Products Co	Hauman Instruments Co
Buckinghamshire England 13	Marple at Broadway Clifton Heights Pa 19	70 Coolidge Hill Rd Watertown 72 Mass 10
Alcar Instruments Inc 17 Industrial Ave Little Ferry NJ 20	Clough-Brengle Co	Heath Co 305 Territorial Rd
All American Tool & Mfg Co	6014 Broadway Chicago 40 Ill 3-6 Computer Instruments Corp	Benton Harbor Mich 1-3-4-11-16
8027 Lawndale Ave Skokie III 24	92 Madison Ave Hempstead NY 19	Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif 14
Alpha Instrument Co 43 Hempstead St New London Conn 22	Consolidated Avionics Corp	Hewson Co
Alto Scientific Co	66 Brooklyn Ave Westbury NY 7-12-21 Consolidated Electrodynamics Corp	443 Broad St Newark 2 NJ 2-4-8-12-13-15
855 Commercial St Palo Alto Calif 7-12	300 N Sierra Madre Villa	Hickock Electrical Instrument Co
Amerac Inc 116 Topsfield Rd Wenham Mass 14	Pasadena Calif 12-24	10514 Dupont Ave Cleveland 8 Ohio 1-3-4-5-6-16-22
American Electronic Laboratories	Cornell-Dubilier Electric Corp 333 Hamilton Blvd S Plainfield NJ 3	Holtzer Cabot Div Nat'l Pneumatic Co
121 N 7 St Philadelphia 6 Pa 21	Craft Labs 209 Ayliffe Ave Westfield NJ 5	125 Amory St Boston 19 Mass 13 Hoover Electronics Co
American Machine & Foundry Co Electronics Div	Custom Scientific Instruments Inc 541 Devon St Kearny NJ 13	3640 Woodland Ave
1085 Commonwealth Ave Boston 15 Mass 12	Dallons Labs	Baltimore 7 Md 7-12-14-17
American Machine & Foundry Co	5066 Santa Monica Blvd	Hycon Mfg Co 707 S Raymond Ave Pasadena Calif 12
Defense Products Group 1101 N Royal St	Los Angeles 29 Calif 9-20 Dante Electric Mfg Co Bantom Conn 8	Ideal Industries Inc
Alexandria Va 7-8-10-12-15-17-19-20-24	Daven Co Route 10 Livingston NJ 10-11	5127 Park Ave Sycamore III 5-8
American Scientific Development	Davenport Mfg Co	Impact-O-Graph Corp 1900 Euclid Ave Cleveland 15 Ohio 24
336 S Main St Fort Atkinson Wisc 22 Anchor Products Co	1713 E Ashland Ave Chicago 22 Ill 2-5-6-8-13	Industrial Research Labs
2712 W Montrose Ave	DeMornay-Bonardi Corp	Div Aeronca Mfg Corp Hilltop & Frederick Rds 1-2-3-4-5-6-7-8-9
Chicago 18 Ill 4	780 S Arroyo Pkwy Pasadena Calif 14	Baltimore 28 Md 12-14-16-17-19
Anchor Specialty Mfg Co Hollister Rd Teterboro NJ 2-5-6-8-21-24	Dice Co J W 16 Highwood Ave Englewood NJ 20	Industrial Test Equipment Co
Anko Mfg Co	Dit-Mco Inc Electronics Div	55 E 11 St New York 3 NY 3-5-6-7-19 Industrial Transformer Corp
5042 W State St Milwaukee 8 Wisc 22-23	911 Broadway Kansas City Mo 5-8-12 Dunn Eng'g Associates	Couldahoro Da 13
Apparatus Development Co 115 Main St Wethersfield 9 Conn 16	186 Massachusetts Ave	Industrial Winding Machinery Co 120 Wall St New York 5 NY 6
Associated Research Inc	Cambridge 39 Mass 9-21	Instrument Labs
3758 W Belmont Ave Chicago 18 III 2-13-15	Durson Co 10416 National Blvd Los Angeles 34 Calif 21	315 W Walton PI Chicago 10 Ill 5-16
Associated Testing Labs 409 Clinton Rd Caldwell NJ 24	Eastern Specialty Co	International Business Machines Corp 590 Madison Ave New York 23 NY 22
Audio Accessories	3617 N 8 St Philadelphia 40 Pa 13-18 Elco Corp	International Research Associates
Amityville NY	M St. below Erie Ave	2221 Warwick Ave Santa Monica Calif 21 International Research & Development Corp
Authorized Mfrs Service Co 919 Wyckoff Ave Brooklyn 27 NY 4	Philadelphia 24 Pa 23	797 Thomas Lane Columbus 16 Unio 24
Avionics Ltd	Electric Storage Battery Co Exide Battery Div 42 S 15 St	Lackson Electrical Instrument Co
PO Box 200 Niagara-on-the-Lake Ont Canada 14-21	Philadelphia 2 Pa 1	18 S Patterson Blvd Dayton 2 Ohio 4-22 Johnson Aircraft Eng'g Co M J
Ont Canada 14-21 Avtron Mfg Inc	Electro Impulse Lab Inc 208 River St Red Bank NJ 14	Box 10 Morristown Airport
10409 Meech Ave Cleveland 5 Ohio 12	Electro-Mechanical Div General Riveters Inc	Morristown NJ 2-5 J-V-M Eng'g Co
Baird-Atomic Inc	785 Hertel Ave Buffalo 7 NY 15	4633 S Lawndale Ave Lyons Ill 14-17
33 University Rd Cambridge 38 Mass 14-21 Baldwin-Lima-Hamilton Corp	Electro-Mec Lab Inc 47-51 33 St Long Island City 1 NY 19	Kaiser Aircraft & Electronics Corp
Electronics & Instrumentation Div	Electronic Brazing Co	Toledo Electronics Div P O Box 437 Toledo Ohio 12
42 4 Ave Waltham 54 Mass 2 Barker & Williamson Inc	140 Glenridge Ave Montclair NJ 5	Kartron
Canal & Beaver Sts Bristol Pa 11	Electronic Designs Inc 28 School St Yonkers NY 5-8-16	P O Box 472 Huntington Beach Calif 6
Bassett Inc Rex	Electronic Instrument Co	Kay Electric Co 14 Maple Ave Pine Brook NJ 5-6-9-10-24
1314 NE 17 Ct Ft Lauderdale Fla 9	84 Withers St Brooklyn 11 NY 1-21-22 Electronic Measurements Corp	Kearfott Inc Western Div
Beckman Instruments Inc Data & Control	625 Broadway New York 12 NY 1-16-21-22	14844 Oxnard St Van Nuys Calif 17 Keystone Electronics Corp
Systems Scientific Instrument Div	Electronic Research Associates 67 E Centre St Nutley 10 NJ 21	423 Broome St New York 13 NY 5
325 N Muller Ave Anaheim Calif 7-8	Electronic Specialty Co	King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio 1-6-15
Bendix Aviation Corp Bendix Radio Div	5121 San Fernando Rd	Kit-Tronics
East Joppa Rd Towson 4 Md 7-17 Bendix Aviation Corp	Los Angeles 39 Calif 12-18 El-Tronics Inc	2315 Hendola Dr
1104 Fisher Bldg Detroit 2 Mich 12-17	Penn Ave Mayfield Pa 9-10-21-22	N E Albuquerque New Mex 21 Lab Corp E Onondage Skaneateles NY 15-24
Bernco Engineering Corp	Epco Electronics Inc 140 Liberty St New York 6 NY 4-5-13-16	Land-Air Inc
2320 S Tibbs Ave Indianapolis 41 Ind 8-16 Biddle Co James G	Erwood Inc	7444 W Wilson Ave Chicago 31 III 24
1316 Arch St Philadelphia 7 Pa 2-13-15	1770 W Berteau Ave Chicago 13 Ill 24	Land-Air Inc Instrument & Electronic Div 2133 Adams Ave San Leandro Calif 24
B & K Mfg Co	Farrand Controls Inc 4401 Bronx Blvd New York 70 NY 19	Lavoie Labs Inc
3726 N Southport Chicago III 4-6-21-22 Bliss Electronic Corp	Fecker Inc J W	Matawan-Freehold Rd
Box 366 Sussex NJ 2-5-8-13	6592 Hamilton Ave Pittsburgh 6 Pa 12	Lieco Inc
Bogue Electric Mfg Co Iowa Ave Paterson 3 NJ 1	Feiler Eng'g & Mfg Co 8026 N Monticello Ave Skokie III 4-5-8	3610 Oceanside Rd Oceanside LI NY 14
Bolton Labs Inc	First Electronics Corp	Line Material Industries 700 W Michigan Milwaukee Wisc 13
W Main St Bolton Mass 14-18	117 Blue Hill Ave Boston 19 Mass 2	100 M Michigan Milmanyee Misc 10

5120 W Jefferson Blvd	
I - A les 16 Celif	24
Los Angeles 16 Calif Litton Industries of Calif	24
336 N Foothill Rd Beverly Hills Calif	12
Magnaflux Corp 7300 W Lawrence Ave Chicago 31 III	20
Magnetic Amplifiers Inc	
	21 15
Manson Laboratories Inc	1.0
207 Greenwich Ave	2.0
Stamford Conn 4-14-17- Marconi Instruments Ltd	22
44 New St New York 4 NY	17
44 New St New York 4 NY Martindale Electric Co Box 617 Edgewater Branch	
Cleveland 7 Ohio 5-6-	13
Measurement Eng'g Ltd	
	10
Metronix Inc Mill Lane Waterford Conn 3-6-21-	23
Minn-Honeywell Regulator Co	
Ordnance Div Hopkins Minn	21
Minn-Honeywell Regulator Co Aero Div	
1433 Stinson Blvd	7
Minneapolis Minn Multi-Amp Corp	1
465 Lehigh Ave	
Union NJ 2-5-8-10-13-18-5 Muirhead & Co Ltd	21
	19
Muirhead Instruments Inc	
677 5 Ave New York 22 NY Narda Corp	19
	14
National Aircraft Corp	
Electronics Div 3411 Tulare Ave Burbank Calif	21
National Canacitor Co	
18 Webster St Brookline 46 Mass	3
Navco Navigation Computer Corp 1621 Snyder Ave Philadelphia 45 Pa	7
Nevada Air Products Co	•
PO Box 2472 Reno Nev 14-1	7
Norden-Ketay Corp Commerce Rd	
Stamford Conn 7-12-19-9	21
Non-Linear Systems Inc	9
Non-Linear Systems Inc Del Mar Airport Del Mar Calif Nuclear-Electronics Corp	2
2632 W Cumberland St	
Philadelphia 32 Pa Oberline Inc	7
PO Box 921 Beverly Hills Calif 1	6
Omega Labs Inc	_
Haverhill St Rowley Mass 10-14-1 Owen_Labs Inc	7
	1
Pace Electrical Instruments Co 70-31 84 St Glendale 27 LI NY 4-5-16-2	
Pacific Semiconductors Inc	1
10451 W Jefferson Blvd	
Culum City Calif	
Culver City Calif 10-2 Packard Bell Electronics Corp	1
Culver City Calif 10-2 Packard Bell Electronics Corp 12333 W Olympic Blvd	
Culver City Calif 10-2 Packard Bell Electronics Corp 12333 W Olympic Blvd Los Angeles 64 Calif 1	1
Culver City Calif 10-2 Packard Bell Electronics Corp 12333 W Olympic Blvd Los Angeles 64 Calif 1 Panellit Inc	2
Culver City Calif Packard Bell Electronics Corp 12333 W Olympic Blvd Los Angeles 64 Calif Panellit Inc 7401 N Hamlin Ave Skokie Ill Panoramic Radio Products Inc	
Culver City Calif Packard Bell Electronics Corp 12333 W Olympic Blvd Los Angeles 64 Calif Panellit Inc 7401 N Hamlin Ave Skokie Ill Panoramic Radio Products Inc 10 S 2 St	<b>2</b> 2
Culver City Calif Packard Bell Electronics Corp 12333 W Olympic Blvd Los Angeles 64 Calif Panellit Inc 7401 N Hamlin Ave Skokie III Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY Peschel Electronics Inc	2 2 4
Culver City Calif Packard Bell Electronics Corp 12333 W Olympic Blvd Los Angeles 64 Calif Panellit Inc 7401 N Hamlin Ave Skokie Ill Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 11-12-14-17-2 Peschel Electronics Inc 13 Garden St New Rochelle NY 2-5-8-1	2 2 4
Culver City Calif Packard Bell Electronics Corp 12333 W Olympic Blvd Los Angeles 64 Calif Panellit Inc 7401 N Hamlin Ave Skokie Ill Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 11-12-14-17-2 Peschel Electronics Inc 13 Garden St New Rochelle NY Phaostron Instrument & Electronic Co 151 Pasadena Ave	2 2 4
Culver City Calif Packard Bell Electronics Corp 12333 W Olympic Blvd Los Angeles 64 Calif Panellit Inc 7401 N Hamlin Ave Skokie Ill Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 11-12-14-17-2 Peschel Electronics Inc 13 Garden St New Rochelle NY Phaostron Instrument & Electronic Co 151 Pasadena Ave S Pasadena Ave S Pasadena Calif	2 2 4 3
Culver City Calif Packard Bell Electronics Corp 12333 W Olympic Blvd Los Angeles 64 Calif Panellit Inc 7401 N Hamlin Ave Skokie Ill Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 11-12-14-17-2 Peschel Electronics Inc 13 Garden St New Rochelle NY Phaostron Instrument & Electronic Co 151 Pasadena Ave S Pasadena Ave S Pasadena Calif	2 2 4 3
Culver City Calif Packard Bell Electronics Corp 12333 W Olympic Blvd Los Angeles 64 Calif Panellit Inc 7401 N Hamlin Ave Skokie Ill Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 11-12-14-17-2 Peschel Electronics Inc 13 Garden St New Rochelle NY Phaostron Instrument & Electronic Co 151 Pasadena Ave S Pasadena Calif Philco Corp Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa 4-5-2	2 2 4 3
Culver City Calif Packard Bell Electronics Corp 12333 W Olympic Blvd Los Angeles 64 Calif Panellit Inc 7401 N Hamlin Ave Skokie III Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY 11-12-14-17-2 Peschel Electronics Inc 13 Garden St New Rochelle NY Phaostron Instrument & Electronic Co 151 Pasadena Ave S Pasadena Calif Philco Corp Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa Polarad Electronics Corp	2 2 4 3
Culver City Calif Packard Bell Electronics Corp 12333 W Olympic Blvd Los Angeles 64 Calif Panellit Inc 7401 N Hamlin Ave Skokie III Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY Peschel Electronics Inc 13 Garden St New Rochelle NY Phaostron Instrument & Electronic Co 151 Pasadena Ave S Pasadena Calif Philco Corp Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa Polarad Electronics Corp 43-20 34 St Long Island City 1 NY 12-14-15-0	2 2 4 3 6
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212 NW 8 Ave Miami 36 Fla	9
Rixon Electronics Inc 2414 Reedie Dr Silver Spring Md	9-10-21
Sage Labs Inc 30 Guinan St Waltham 54 Mass Seco Mfg Co 5015 Penn Ave S	
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5015 Penn Ave S Minneapolis 19 Minn	F. C. O
Sensitive Research Instrument Corp	5-6-8
310 Main St New Rochelle NY Service Instruments Corp	1-15-16
171 Official Rd Addison III	21-22
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Shallcross Mfg Co Jackson & Pusey Aves Callingdela Pa	
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Sonex Inc	14-19-24
73 S State Rd Unner Darby Pa	10-21
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Rand Corp Great Neck NY Sperry Products Inc	12-14-17
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Stavid Eng'g Inc US Route 22 Plainfield NJ	DC 17
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27-05 Brooklyn-Queens Expressway V Woodside 77 NY 8-13-16-18- Takk Corp P O Box 346 Newark Ohio	7 30-34-35
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Technical Lectronics Corp 4060 Ince Blvd Culver City Calif Technitrol Eng'g Co 1952 E Allegheny Ave Philadelphia 34 Pa Tektronix Inc P O Box 831 Portland 7 Ore Telecommunications Ltd Newmarket Rd Cambridge England Telectro Industries Corp 35-18 37 St Long Island City 1 NY Telematic Industries Inc 16 Howard Ave Brooklyn 7 NY Telemeter Magnetics Inc 2245 Pontius Ave Los Angeles 64 C Teleftest Instrument Corp 136-10 31 Rd Flushing 54 NY Teletronics Lab Inc 54 Kinkel St Westbury NY Televiso Corp 1415 Golf Rd Des Plaines III Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ Topatron Inc 942 E Ojai Ave Ojai Calif Towaco Electronics Pine Brook Rd Towaco NJ Trans Electronics Inc 7349 Canoga Ave Canoga Park Calif Transitron Inc 186 Granite St Manchester NH Transval Eng'g Corp	2-24 2 10 21 12 10-18-19 4 alif 7 3-4-22 9-10-16 24 24 12-15-22 11 10-21
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Technical Lectronics Corp 4060 Ince Blvd Culver City Calif Technitrol Eng'g Co 1952 E Allegheny Ave Philadelphia 34 Pa Tektronix Inc P O Box 831 Portland 7 Ore Telecommunications Ltd Newmarket Rd Cambridge England Telectro Industries Corp 35-18 37 St Long Island City 1 NY Telematic Industries Inc 16 Howard Ave Brooklyn 7 NY Telemeter Magnetics Inc 2245 Pontius Ave Los Angeles 64 C TeleTest Instrument Corp 136-10 31 Rd Flushing 54 NY Teletronics Lab Inc 54 Kinkel St Westbury NY Televiso Corp 1415 Golf Rd Des Plaines III Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ Topatron Inc 942 E Ojai Ave Ojai Calif Towaco Electronics Inc 7349 Canoga Ave Canoga Park Calif Transitron Inc 186 Granite St Manchester NH Transval Eng'g Corp 10401 W Jefferson Blvd Culver City Calif Trieraft Products Corp 1535 N Ashland Ave Chicago 22 III Triplett Electrical Instrument Corp	2-24 2 10 21 12 10-18-19 4 alif 7 3-4-22 9-10-16 24 24 12-15-22 11 10-21 13
Technical Lectronics Corp 4060 Ince Blvd Culver City Calif Technitrol Eng'g Co 1952 E Allegheny Ave Philadelphia 34 Pa Tektronix Inc P O Box 831 Portland 7 Ore Telecommunications Ltd Newmarket Rd Cambridge England Telectro Industries Corp 35-18 37 St Long Island City 1 NY Telematic Industries Inc 16 Howard Ave Brooklyn 7 NY Telemeter Magnetics Inc 2245 Pontius Ave Los Angeles 64 C TeleTest Instrument Corp 136-10 31 Rd Flushing 54 NY Teletronics Lab Inc 54 Kinkel St Westbury NY Televiso Corp 1415 Golf Rd Des Plaines Ill Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ Topatron Inc 942 E Ojai Ave Ojai Calif Towaco Electronics Pine Brook Rd Towaco NJ Trans Electronics Inc 7349 Canoga Ave Canoga Park Calif Transitron Inc 186 Granite St Manchester NH Transval Eng'g Corp 10401 W Jefferson Blvd Culver City Calif Tricraft Products Corp 1535 N Ashland Ave Chicago 22 Ill Triplett Electrical Instrument Co Jnderwood Corp Electronic Computer 35-10 36 Ave Long Inland City & NY	2-24 2 10 21 12 10-18-19 4 alif 7 3-4-22 9-10-16 24 24 12-15-22 11 10-21 13
Technical Lectronics Corp 4060 Ince Blvd Culver City Calif Technitrol Eng'g Co 1952 E Allegheny Ave Philadelphia 34 Pa Tektronix Inc P O Box 831 Portland 7 Ore Telecommunications Ltd Newmarket Rd Cambridge England Telectro Industries Corp 35-18 37 St Long Island City 1 NY Telematic Industries Inc 16 Howard Ave Brooklyn 7 NY Telemeter Magnetics Inc 2245 Pontius Ave Los Angeles 64 C TeleTest Instrument Corp 136-10 31 Rd Flushing 54 NY Teletronics Lab Inc 54 Kinkel St Westbury NY Televiso Corp 1415 Golf Rd Des Plaines Ill Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ Topatron Inc 942 E Ojai Ave Ojai Calif Towaco Electronics Pine Brook Rd Towaco NJ Trans Electronics Inc 186 Granite St Manchester NH Transval Eng'g Corp 10401 W Jefferson Blvd Culver City Calif Tricraft Products Corp 1535 N Ashland Ave Chicago 22 Ill Triplett Electrical Instrument Co Harmon Rd Bluffton Ohio 4-5 Juderwood Corp Electronic Computer 35-10 36 Ave Long Island City 6 NY J S Dynamics Corp	2-24 2 10 21 12 10-18-19 4 alif 7 3-4-22 9-10-16 24 24 12-15-22 11 10-21 13
Technical Lectronics Corp 4060 Ince Blvd Culver City Calif Technitrol Eng'g Co 1952 E Allegheny Ave Philadelphia 34 Pa Tektronix Inc P O Box 831 Portland 7 Ore Telecommunications Ltd Newmarket Rd Cambridge England Telectro Industries Corp 35-18 37 St Long Island City 1 NY Telematic Industries Inc 16 Howard Ave Brooklyn 7 NY Telemeter Magnetics Inc 2245 Pontius Ave Los Angeles 64 C TeleTest Instrument Corp 136-10 31 Rd Flushing 54 NY Teletronics Lab Inc 54 Kinkel St Westbury NY Televiso Corp 1415 Golf Rd Des Plaines Ill Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ Topatron Inc 942 E Ojai Ave Ojai Calif Towaco Electronics Pine Brook Rd Towaco NJ Trans Electronics Inc 186 Granite St Manchester NH Transval Eng'g Corp 10401 W Jefferson Blvd Culver City Calif Tricraft Products Corp 1535 N Ashland Ave Chicago 22 Ill Triplett Electrical Instrument Co Harmon Rd Bluffton Ohio 4-5 Juderwood Corp Electronic Computer 35-10 36 Ave Long Island City 6 NY J S Dynamics Corp 1250 Columbus Ave Boston 20 Mass Vectron Inc	2-24 2 10 21 12 10-18-19 4 alif 7 3-4-22 9-10-16 24 24 12-15-22 11 10-21 13 2 4-22 -8-16-22 Div 7-10-21 10-11
Technical Lectronics Corp 4060 Ince Blvd Culver City Calif Technitrol Eng'g Co 1952 E Allegheny Ave Philadelphia 34 Pa Tektronix Inc P O Box 831 Portland 7 Ore Telecommunications Ltd Newmarket Rd Cambridge England Telectro Industries Corp 35-18 37 St Long Island City 1 NY Telematic Industries Inc 16 Howard Ave Brooklyn 7 NY Telemeter Magnetics Inc 2245 Pontius Ave Los Angeles 64 C TeleTest Instrument Corp 136-10 31 Rd Flushing 54 NY Teletronics Lab Inc 54 Kinkel St Westbury NY Televiso Corp 1415 Golf Rd Des Plaines Ill Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ Topatron Inc 942 E Ojai Ave Ojai Calif Towaco Electronics Pine Brook Rd Towaco NJ Trans Electronics Inc 186 Granite St Manchester NH Transval Eng'g Corp 10401 W Jefferson Blvd Culver City Calif Tricraft Products Corp 1535 N Ashland Ave Chicago 22 Ill Triplett Electrical Instrument Co Harmon Rd Bluffton Ohio 4-5 Juderwood Corp Electronic Computer 35-10 36 Ave Long Island City 6 NY J S Dynamics Corp 1250 Columbus Ave Boston 20 Mass Vectron Inc	2-24 2 10 21 12 10-18-19 4 alif 7 3-4-22 9-10-16 24 24 12-15-22 11 10-21 13 2 4-22 -8-16-22 Div 7-10-21 10-11 14
Technical Lectronics Corp 4060 Ince Blvd Culver City Calif Technitrol Eng'g Co 1952 E Allegheny Ave Philadelphia 34 Pa Tektronix Inc P O Box 831 Portland 7 Ore Telecommunications Ltd Newmarket Rd Cambridge England Telectro Industries Corp 35-18 37 St Long Island City 1 NY Telematic Industries Inc 16 Howard Ave Brooklyn 7 NY Telemeter Magnetics Inc 16 Howard Ave Brooklyn 7 NY Telemeter Magnetics Inc 16 Howard Ave Los Angeles 64 C TeleTest Instrument Corp 136-10 31 Rd Flushing 54 NY Teletronics Lab Inc 54 Kinkel St Westbury NY Teletronics Lab Inc 54 Kinkel St Westbury NY Televiso Corp 1415 Golf Rd Des Plaines Ill Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ Topatron Inc 942 E Ojai Ave Ojai Calif Towaco Electronics Pine Brook Rd Towaco NJ Trans Electronic Inc 7349 Canoga Ave Canoga Park Calif Transitron Inc 186 Granite St Manchester NH Transval Eng'g Corp 10401 W Jefferson Blvd Culver City Calif Tricraft Products Corp 1535 N Ashland Ave Chicago 22 Ill Triplett Electrical Instrument Co Harmon Rd Bluffton Ohio 4-5 10-10 Jnderwood Corp Electronic Computer 35-10 36 Ave Long Island City 6 NY J S Dynamics Corp 1250 Columbus Ave Boston 20 Mass Vectron Inc	2-24 2 10 21 12 10-18-19 4 alif 7 3-4-22 9-10-16 24 24 12-15-22 11 10-21 13 2 4-22 -8-16-22 Div 7-10-21 10-11

Vis-U-All Corp 3325 W Bryn Mawr Ave Chicago 45 Ill Voron & Co George 835 N 19 St	4-22
Philadelphia 30 Pa 9-10	-13-16
WacLine Inc 35 S St Clair St Dayton 2 Ohio Wallson Associates	14
963 Frelinghuysen Ave Newark 12 NJ Warren Mfg Co	9-10
Newton Rd Littleton Mass Waters Mfg Inc	11
Boston Post Rd Wayland Mass Waveline Inc Passaic Ave Caldwell NJ Westberg Mfg Co	10 14
Westberg Mfg Co 144 S Coombs St Napa Calif West Coast Research Corp	15
2371 Westwood Blvd	7-12
Los Angeles 64 Calif Westinghouse Electric Corp P O Box 868 Pittsburgh 30 Pa 5 Weston Electrical Instrument Corp	-15-16
Sub Daystrom Inc 614 Frelinghuysen A Newark 12 NJ	Ave 5
	7-19
westronics inc 3605 McCart Ft Worth Texas Willard Storage Battery 246 E 131 St Cleveland 1 Ohio Winkler Labs	1
Winkler Labs 5225 N 20 St Phoenix Ariz Wright Equipment Co	24
128 N Main St Milltown NJ	22
93—TOOLS, HAND	
Alignment tools	1
Blades, hacksaw	2
Cutters, hole	3 4
Cutters, wire	5
Drills, electric	6
Drills, hand	7 8
Drivers, staple	9
Etchers, electric	10
Files	11 12
Holders, chassis	13
Knob pullers	14
Lenses, inspection	15 16
Micrometers	17
Mirrors, inspection	18
Pliers Punches	19 20
Ratchet wrenches	21
	22 23
Scales & tapes	24
	25 26
Snips	27
	28 29
Soldering iron stands	27 30
Soldering iron tips	31
	32 33
Staplers	34
	35 36
Tube pullers	37
***	38 39
Wire strippers, mechanical	40
	41
Acme Electric Heating Co 1217 Washington St Boston 18 Mass	28
Acme Wire Machine Co 232 E 3 St New York 9 NY	40
Acme Electric Heating Co 1217 Washington St Boston 18 Mass Acme Wire Machine Co 232 E 3 St New York 9 NY Acoustic Associates Shore Rd Glenwood Landing LI NY	32
Acromark Co 443 Morrell St Elizabeth 4 NJ 1 Acro Tool & Die Works	0-16
443 Morrell St Elizabeth 4 NJ 1 Acro Tool & Die Works 4554 Broadway Chicago 40 Ill Adcola Products Ltd	13
Gauden Rd Clapham High St London S W 4 England 28-29-30-3 Advance Electronics Co	1-32
8510 North End Ave Oak Park 37 Mich	
250 Park Ave New York 17 NY	26
Air Transport Mig Co	
Los Angeles 38 Calif Alden Products Co 123A N Main St Brockton Mass Allied Engraving & Stamping Co 17 Elm St Buffalo 3 NY American Electrical Heater Co 6110 Coss Ave Detroit 2 Mich.	13
Allied Engraving & Stamping Co	13
17 Elm St Buffalo 3 NY 1 American Electrical Heater Co	6-24
6110 Cass Ave Detroit 2 Mich 30-3	1-32

AMP Inc Harrisburg Pa 35	Hayward Scientific Glass Corp	168 Vista Ave Pasadena 8 Calif 18
Anchor Products Co	217 N Magnolia Ave Whittier 1 Calif Hexacon Electric Co	Perkin-Elmer Corp
2712 W Montrose Ave Chicago 18 III 32	161 W Clay Ave	Main Ave Norwalk Conn
Annis Co R B 1101 N Delaware St Indianapolis 2 Ind 10	Roselle Park NJ 29-30-31-32	PIC Design Corp 477 Atlantic Ave E Rockaway LI NY 38
Arro Expansion Bolt Co	High Speed Hammer Co	Pittsburgh Coil Co
North Boone Ave Marion Ohio 8	313 Norton St Rochester 21 NY 12-40	Box 700 Carnegie P
Artos Eng'g Co	Holub Industries Inc 413 De Kalb Ave Sycamore Ill 40	Poole Instruments Inc
2757 S 28 St Milwaukee 46 Wisc 40	Huck Mfg Co	150 Express St Dallas 21 Texas 17 Porter-Cable Machine Go
Atlantic & Pacific Wire & Cable Co 112-01 Northern Blvd E Elmhurst LI NY 40	2480 Bellevue Ave Detroit 7 Mich 22	17414 N Salina St Syracuse 8 NY 6-23
Bache & Co Semon	Hunter Tools 9851 Alburtis Ave Whittier Calif 1-26	Porter Inc H K
636 Greenwich St New York 14 NY 18	Jobi Hibartis 1216	74 Foley St Somerville 43 Mass
Bausch & Lomb Optical Co	Ideal Industries Inc 5127 Park Ave Sycamore III 10-40	Precision Supply Co 292 Belmont Ave Paterson 2 NJ
628 St Paul St Rochester 2 NY 18 Belden Mfg Co	iE Mfg	Proje Engraving Machine Co HP
4647 W Van Buren St Chicago 44 III 40	325 N Hoyne Ave Chicago 12 III 1-20-35	651 U S Hwy 22 Hillside NJ
Black & Decker Mfg Co	Insuline Corp of America	Quality Control Corp
E Panna Ave Towson 4 Md 6-23-41	186 Granite St Manchester NH Jones Electronics Hiram	401 Broadway New York 13 NY Radial Cutter Mfg Corp
6541 Euclid Ave Cleveland 3 Ohio 8	2313 W Olive St Burbank Calif 35	831 Bond St Elizabeth 4 NJ
Blonder-Tongue Laboratories	Kedman Co	Reid Mfg Co A
9-25 Alling St Newark 2 NJ 5	233 S 5 W Salt Lake City 1 Utah 26	Store Ita 1 of a traditional
British Electronics Sales Box 132 Oakland Gardens 64 NY 36-37	Keller Tool Div Gardner-Denver Co 1333 Fulton St Grand Haven Mich 26	Revere Corp of America Wallingford Conn 24
Brush Nail Expansion Bolt Co	Kelnor Mfg Corp	Richmont Inc
Greenwich Conn	1355 Market St San Francisco 3 Calif 31-32	922 S Myrtle Ave Monrovia Calif 26
Buchanan Electrical Products Corp	Kemode Mfg Co	Rogan Bros 8031 N Monticello Ave Skokie Ill 14-16
225 Route 22 Hillside NJ 19-28 Buhl Optical Co	161 W 18 St New York 11 NY 32	Safetee Glass Co
1009 Beech Ave Pittsburgh 33 Pa 15	Keystone Electronics Corp 423 Broome St New York 13 NY 1	4717 Stenton Ave Philadelphia 44 Pa 18
Cable Electric Products	King Electric Equipment Co	Schmidt Inc Geo T
234 Daboll St Providence 7 RI 2	9123 Inman Ave Cleveland 5 Ohio 10	4100 N Ravenswood Ave Chicago 13 Ill 16 Scientific Glass Apparatus Co
Cambridge Thermionic Corp 445 Concord Ave Cambridge 38 Mass 35	Klein & Sons Mathias	100 Lakewood Terrace
Cerro De Pasco Sales Corp	7200 McCormick Rd Chicago 45 III 19-25-41 Kraeuter & Co	Bloomfield NJ 15-17-38
300 Park Ave New York 22 NY 2	585 18 Ave	Sensory Inc Pleasantville Rd New Vernon NJ 17
Chase Brass & Copper Co	Newark 3 NJ 19-20-21-26-27-38-41	Pleasantville Rd New Vernon NJ Shakeproof Div Illinois Tool Works
236 Grand St Waterbury 20 Conn 32 Clauss Cutlery Co	Krengel Mfg Co 227 Fulton St New York 7 NY 16	St Charles Rd Elgin Ill 26
223 Prospect St Fremont Ohio 25-27-38	227 Fulton St New York 7 NY 16 Kwikheat Mfg Co	Simonds Saw & Steel Co
Cole Radio Works	3732 San Fernando Rd	470 Main St Fitchburg Mass 2-11-23 Skil Corp
86 Westville Ave Caldwell NJ 29-30-31-32 Contact Inc Maynard Mass 29-40	Glendale 4 Calif 31-32	5033 Elston Ave Chicago 30 Ill 6-23-26
Corry-Jamestown Mfg Corp	Lenk Mfg Co	Skyway Precision Tool Co
43 N Center St Corry Pa 11	30 Cummington St Boston 15 Mass 29-31-32 Lerco Electronics Inc	825 E Broadway San Gabriel Calif 26-41 Smith Inc Herman H
Crescent Eng'g & Research Co 5440 N Peck Rd El Monte Calif 17	501 S Varney St Burbank Calif 35	2326 Nostrand Ave Brooklyn 10 NY 36-37
5440 N Peck Rd El Monte Calif 17 Dee Electric Co	Liberty Mirror Div	Snap-on Tools Corp
1101 N Paulina St Chicago 22 Ill 28	Libbey Owens Ford Glass Co Brackenridge Pa 18	Kenosha Wisc 6-8-12-19-20-21-41 Sta-Warm Electric Co
Dittmore-Freimuth Corp 2517 E Norwich St Milwaukee 7 Wisc 28	Linde Air Products Div	553 N Chestnut St Ravenna Ohio 28
2517 E Norwich St Milwaukee 7 Wisc 28 Dry Screen Process Inc	Union Carbide & Carbon	Stevens Walden Inc
1016 Madison Ave Pittsburgh 12 Pa 10	30 E 42 St New York 17 NY 32	Shrewsbury St Worcester 4 Mass 1-21-26-41
Du Mont Labs Inc Allen B	Link Aviation Inc Binghamton NY 17	Worcester 4 Mass 1-21-26-41 Studebaker Hydraulic Products Co
760 Bloomfield Ave Clifton NJ 6 Duro Specialty Co	Litton Industries of Calif	1733 N 33 Ave Melrose Park III 12
811 Boston St Lynn Mass 36	336 N Foothill Rd Beverly Hills Calif 35	Stueck Inc W Whitney
Ed-Berl Products Inc	Litton Industries Components Div 5873 Rodeo Rd Los Angeles 16 Calif 35	Box 355 Old Saybrook Conn 23 Sturtevant Co P A Addison Ill 41
87 Merrick Rd Baldwin NY 1-26	Lufkin Rule Co	Taffet Radio & TV
Edmund Scientific Co 101 E Gloucester Pike Barrington NJ 15-18	1730 Hess St Saginaw Mich 17	27-05 Brooklyn-Queens Expressway
Eitel-McCullough Inc	Luma Electric Equipment Co	W Woodside 77 NY Technical Devices Co
798 San Mateo Ave San Bruno Calif 37	PO Box 132 Toledo 1 Ohio 10 Magnetic Devices Corp	2340 Centinela Ave Los Angeles 64 Calif 40
Electric Soldering Iron Co W Elm St Deep River Conn 28-29-31-32	103 S Van Brunt St Englewood NJ 34	Technicraft Co
Electric Terminals Corp	Martindale Electric Co	1156 Commonwealth Ave Boston 34 Mass 32
2019 Center St Cleveland 13 Ohio 35	Box 617 Edgewater Branch Cleveland 7 Ohio 10-23	Torris Div Consolidated Siphon Supply Co
Elgin National Watch Co 107 National St Elgin Ill 8		22 Wooster St New York 13 NY 15
	Matthews & Co Jas H	_ ZZ Woodel De Item
Elm Labs	Matthews & Co Jas H 3956 Forbes St Pittsburgh 13 Pa 16	Thomas & Betts Co
Elm Labs 10 Washington Ave	3956 Forbes St Pittsburgh 13 Pa 16 Maymer Corp	Thomas & Betts Co
Elm Labs 10 Washington Ave Hastings-on-Hudson NY 13	3956 Forbes St Pittsburgh 13 Pa 16 Maymer Corp 1961 W 112 St Cleveland 2 Ohio 24	Thomas & Betts Co 36 Butler St Elizabeth NJ 35 Thomas Instrument Co Phoenix NY Tinsley Labs Inc
Elm Labs 10 Washington Ave Hastings-on-Hudson NY Engineering Developments Inc	3956 Forbes St Pittsburgh 13 Pa 16 Maymer Corp 1961 W 112 St Cleveland 2 Ohio 24 Midget Louver Co	Thomas & Betts CD 36 36 Butler St Elizabeth NJ 35 Thomas Instrument Co Phoenix NY 40 Tinsley Labs Inc 2526 Grove St Berkeley 4 Calif 15
Elm Labs 10 Washington Ave Hastings-on-Hudson NY Engineering Developments Inc Forest Ave Middletown RI Enthoven Solders Ltd	3956 Forbes St Pittsburgh 13 Pa Maymer Corp 1961 W 112 St Cleveland 2 Ohio 24 Midget Louver Co 6-8 Wall St Norwalk Conn 23 Mil Case Corp	Thomas & Betts CD 36 36 Butler St Elizabeth NJ 35 Thomas Instrument Co Phoenix NY Tinsley Labs Inc 2526 Grove St Berkeley 4 Calif Tipco Mfg Co 14760 Calvert Van Nuys Calif 41
Elm Labs 10 Washington Ave Hastings-on-Hudson NY 13 Engineering Developments Inc Forest Ave Middletown RI Enthoven Solders Ltd 113 N Water St Rochester 4 NY 28-31-32	3956 Forbes St Pittsburgh 13 Pa Maymer Corp 1961 W 112 St Cleveland 2 Ohio 24 Midget Louver Co 6-8 Wall St Norwalk Conn 23 Mil Case Corp 35-18 37 St Long Island City NY 13	Thomas & Betts Co  36 Butler St Elizabeth NJ  Thomas Instrument Co Phoenix NY  Tinsley Labs Inc  2526 Grove St Berkeley 4 Calif  Tipco Mfg Co  14760 Calvert Van Nuys Calif  TV Hardware Mfg Co Div Textron Inc
Elm Labs 10 Washington Ave Hastings-on-Hudson NY Engineering Developments Inc Forest Ave Middletown RI Enthoven Solders Ltd 113 N Water St Rochester 4 NY 28-31-32 Eraser Co 1068 S Clinton St Syracuse 4 NY 40	3956 Forbes St Pittsburgh 13 Pa Maymer Corp 1961 W 112 St Cleveland 2 Ohio 24 Midget Louver Co 6-8 Wall St Norwalk Conn 23 Mil Case Corp 35-18 37 St Long Island City NY 13 Millers Falls Co	Thomas & Betts Co  36 Butler St Elizabeth NJ  Thomas Instrument Co Phoenix NY  Tinsley Labs Inc  2526 Grove St Berkeley 4 Calif  Tipco Mfg Co  14760 Calvert Van Nuys Calif  TV Hardware Mfg Co Div Textron Inc  400 S Wyman St Rockford Ill  18
Elm Labs 10 Washington Ave Hastings-on-Hudson NY Engineering Developments Inc Forest Ave Middletown RI Enthoven Solders Ltd 113 N Water St Rochester 4 NY Eraser Co 1068 S Clinton St Syracuse 4 NY 40 Ercona Corp 551 5 Ave New York 17 NY 15	3956 Forbes St Pittsburgh 13 Pa Maymer Corp 1961 W 112 St Cleveland 2 Ohio Midget Louver Co 6-8 Wall St Norwalk Conn 23 Mil Case Corp 35-18 37 St Long Island City NY Millers Falls Co 57 Wells St	Thomas & Betts CO  36 Butler St Elizabeth NJ  Thomas Instrument Co Phoenix NY  Tinsley Labs Inc  2526 Grove St Berkeley 4 Calif  Tipco Mfg Co 14760 Calvert Van Nuys Calif  TV Hardware Mfg Co Div Textron Inc 400 S Wyman St Rockford Ill Ungar Electric Tools Inc
Elm Labs 10 Washington Ave Hastings-on-Hudson NY 13 Engineering Developments Inc Forest Ave Middletown RI 15 Enthoven Solders Ltd 113 N Water St Rochester 4 NY 28-31-32 Eraser Co 1068 S Clinton St Syracuse 4 NY 40 Ercona Corp 551 5 Ave New York 17 NY 15 Erikson Specialized Tool Co 4902 S Lexington Rd	3956 Forbes St Pittsburgh 13 Pa       16         Maymer Corp       1961 W 112 St Cleveland 2 Ohio       24         Midget Louver Co       28         6-8 Wall St Norwalk Conn       23         Mil Case Corp       35-18 37 St Long Island City NY       13         Millers Falls Co       57 Wells St         Greenfield Mass       2-6-7-12-17-19-20-26-41         Minneapolis-Honeywell Regulator Co	Thomas & Betts CD  36 Butler St Elizabeth NJ  Thomas Instrument Co Phoenix NY  Tinsley Labs Inc  2526 Grove St Berkeley 4 Calif  Tipco Mfg Co  14760 Calvert Van Nuys Calif  TV Hardware Mfg Co Div Textron Inc  400 S Wyman St Rockford III  Ungar Electric Tools Inc  4101 Redwood Ave  Los Angeles 66 Calif  31-32
Elm Labs 10 Washington Ave Hastings-on-Hudson NY Engineering Developments Inc Forest Ave Middletown RI Enthoven Solders Ltd 113 N Water St Rochester 4 NY Ercona Corp 551 5 Ave New York 17 NY Ercona Corp 551 5 Ave New York 17 NY Erikson Specialized Tool Co 4902 S Lexington Rd Pico 1 Calif	3956 Forbes St Pittsburgh 13 Pa 16 Maymer Corp 1961 W 112 St Cleveland 2 Ohio 24 Midget Louver Co 6-8 Wall St Norwalk Conn 23 Mil Case Corp 35-18 37 St Long Island City NY 13 Millers Falls Co 57 Wells St Greenfield Mass 2-6-7-12-17-19-20-26-41 Minneapolis-Honeywell Regulator Co Industrial Div	Thomas & Betts CO  36 Butler St Elizabeth NJ  Thomas Instrument Co Phoenix NY  Tinsley Labs Inc  2526 Grove St Berkeley 4 Calif  Tipco Mfg Co  14760 Calvert Van Nuys Calif  TV Hardware Mfg Co Div Textron Inc  400 S Wyman St Rockford Ill  Ungar Electric Tools Inc  4101 Redwood Ave  Los Angeles 66 Calif  United Shoe Machinery Corp
Elm Labs  10 Washington Ave Hastings-on-Hudson NY Engineering Developments Inc Forest Ave Middletown RI Enthoven Solders Ltd 113 N Water St Rochester 4 NY Ersear Co 1068 S Clinton St Syracuse 4 NY Ercona Corp 551 5 Ave New York 17 NY 15 Erikson Specialized Tool Co 4902 S Lexington Rd Pico 1 Calif Exact Weight Scale Co	3956 Forbes St Pittsburgh 13 Pa 16 Maymer Corp 1961 W 112 St Cleveland 2 Ohio 24 Midget Louver Co 6-8 Wall St Norwalk Conn 23 Mil Case Corp 35-18 37 St Long Island City NY 13 Millers Falls Co 57 Wells St Greenfield Mass 2-6-7-12-17-19-20-26-41 Minneapolis-Honeywell Regulator Co Industrial Div Wayne & Windrim Aves	Thomas & Betts CD   36 Butler St Elizabeth NJ   35
Elm Labs 10 Washington Ave Hastings-on-Hudson NY Engineering Developments Inc Forest Ave Middletown RI Enthoven Solders Ltd 113 N Water St Rochester 4 NY Ercona Corp 551 5 Ave New York 17 NY 15 Erikson Specialized Tool Co 4902 S Lexington Rd Pico 1 Calif Exact Weight Scale Co 944 W 5 Ave Columbus 8 Ohio 24 Feay Co Neal	3956 Forbes St Pittsburgh 13 Pa 16 Maymer Corp 1961 W 112 St Cleveland 2 Ohio 24 Midget Louver Co 6-8 Wall St Norwalk Conn 23 Mil Case Corp 35-18 37 St Long Island City NY 13 Millers Falls Co 57 Wells St Greenfield Mass 2-6-7-12-17-19-20-26-41 Minneapolis-Honeywell Regulator Co Industrial Div Wayne & Windrim Aves Philadelphia 44 Pa 39	Thomas & Betts Co  36 Butler St Elizabeth NJ  Thomas Instrument Co Phoenix NY  Tinsley Labs Inc  2526 Grove St Berkeley 4 Calif  Tipco Mfg Co  14760 Calvert Van Nuys Calif  TV Hardware Mfg Co Div Textron Inc  400 S Wyman St Rockford III  Ungar Electric Tools Inc  4101 Redwood Ave  Los Angeles 66 Calif  United Shoe Machinery Corp  140 Federal St Boston 7 Mass  Utica Drop Forge & Tool Div Kelsey-Hayes Co
Elm Labs  10 Washington Ave Hastings-on-Hudson NY Engineering Developments Inc Forest Ave Middletown RI  Enthoven Solders Ltd 113 N Water St Rochester 4 NY 28-31-32 Eraser Co 1068 S Clinton St Syracuse 4 NY 40 Ercona Corp 551 5 Ave New York 17 NY 15 Frikson Specialized Tool Co 4902 S Lexington Rd Pico 1 Calif Exact Weight Scale Co 944 W 5 Ave Columbus 8 Ohio 24 Feay Co Neal 427 Olive St Santa Barbara Calif 24	3956 Forbes St Pittsburgh 13 Pa Maymer Corp 1961 W 112 St Cleveland 2 Ohio 24 Midget Louver Co 6-8 Wall St Norwalk Conn 23 Mil Case Corp 35-18 37 St Long Island City NY 13 Millers Falls Co 57 Wells St Greenfield Mass 2-6-7-12-17-19-20-26-41 Minneapolis-Honeywell Regulator Co Industrial Div Wayne & Windrim Aves Philadelphia 44 Pa 39 Mitchell Industries Inc PO Box 17 F M	Thomas & Betts Co  36 Butler St Elizabeth NJ  Thomas Instrument Co Phoenix NY  Tinsley Labs Inc  2526 Grove St Berkeley 4 Calif  Tipco Mfg Co  14760 Calvert Van Nuys Calif  TV Hardware Mfg Co Div Textron Inc  400 S Wyman St Rockford III  Ungar Electric Tools Inc  4101 Redwood Ave  Los Angeles 66 Calif  United Shoe Machinery Corp  140 Federal St Boston 7 Mass  Uica Drop Forge & Tool Div Kelsey-Hayes Co  2415 Whitesboro St Utica 4 NY  19-41
Elm Labs 10 Washington Ave Hastings-on-Hudson NY 13 Engineering Developments Inc Forest Ave Middletown RI 15 Enthoven Solders Ltd 113 N Water St Rochester 4 NY 28-31-32 Eraser Co 1068 S Clinton St Syracuse 4 NY 40 Ercona Corp 551 5 Ave New York 17 NY 15 Erikson Specialized Tool Co 4902 S Lexington Rd 1'ico 1 Calif Exact Weight Scale Co 944 W 5 Ave Columbus 8 Ohio 24 Feay Co Neal 427 Olive St Santa Barbara Calif 24 Federal Products Corp	3956 Forbes St Pittsburgh 13 Pa Maymer Corp 1961 W 112 St Cleveland 2 Ohio 24 Midget Louver Co 6-8 Wall St Norwalk Conn 23 Mil Case Corp 35-18 37 St Long Island City NY 13 Millers Falls Co 57 Wells St Greenfield Mass 2-6-7-12-17-19-20-26-41 Minneapolis-Honeywell Regulator Co Industrial Div Wayne & Windrim Aves Philadelphia 44 Pa 39 Mitchell Industries Inc PO Box 17 F M 1195 Municipal Airport	Thomas & Betts CD  36 Butler St Elizabeth NJ  Thomas Instrument Co Phoenix NY  Tinsley Labs Inc  2526 Grove St Berkeley 4 Calif  Tipco Mfg Co 14760 Calvert Van Nuys Calif  TV Hardware Mfg Co Div Textron Inc 400 S Wyman St Rockford Ill  Ungar Electric Tools Inc  4101 Redwood Ave Los Angeles 66 Calif  United Shoe Machinery Corp 140 Federal St Boston 7 Mass Utica Drop Forge & Tool Div Kelsey-Hayes Co 2415 Whitesboro St Utica 4 NY  19-41  Vaco Products Co 317 E Ontario St
Elm Labs  10 Washington Ave Hastings-on-Hudson NY Engineering Developments Inc Forest Ave Middletown RI Enthoven Solders Ltd 113 N Water St Rochester 4 NY Erser Co 1068 S Clinton St Syracuse 4 NY Ercona Corp 551 5 Ave New York 17 NY 15 Erikson Specialized Tool Co 4902 S Lexington Rd Pico 1 Calif Exact Weight Scale Co 944 W 5 Ave Columbus 8 Ohio 24 Feay Co Neal 427 Olive St Santa Barbara Calif 24 Federal Products Corp 1144 Eddy St Providence RI 17	3956 Forbes St Pittsburgh 13 Pa 16  Maymer Corp 1961 W 112 St Cleveland 2 Ohio 24  Midget Louver Co 6-8 Wall St Norwalk Conn 23  Mil Case Corp 35-18 37 St Long Island City NY 13  Millers Falls Co 57 Wells St Greenfield Mass 2-6-7-12-17-19-20-26-41  Minneapolis-Honeywell Regulator Co Industrial Div Wayne & Windrim Aves Philadelphia 44 Pa 39  Mitchell Industries Inc PO Box 17 F M 1195 Municipal Airport Mineral Wells Texas 29-31-32	Thomas & Betts CO  36 Butler St Elizabeth NJ  Thomas Instrument Co Phoenix NY  Tinsley Labs Inc  2526 Grove St Berkeley 4 Calif  Tipco Mfg Co  14760 Calvert Van Nuys Calif  TV Hardware Mfg Co Div Textron Inc  400 S Wyman St Rockford Ill  Ungar Electric Tools Inc  4101 Redwood Ave  Los Angeles 66 Calif  United Shoe Machinery Corp  140 Federal St Boston 7 Mass  Utica Drop Forge & Tool Div Kelsey-Hayes Co  2415 Whitesboro St Utica 4 NY  19-41  Vaco Products Co  317 E Ontario St  Chicago 11 Ill  5-19-26-35-41
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Elm Labs  10 Washington Ave Hastings-on-Hudson NY Engineering Developments Inc Forest Ave Middletown RI Enthoven Solders Ltd 113 N Water St Rochester 4 NY Ersen Co 1068 S Clinton St Syracuse 4 NY Ercona Corp 551 5 Ave New York 17 NY 15 Erikson Specialized Tool Co 4902 S Lexington Rd Pico 1 Calif Exact Weight Scale Co 944 W 5 Ave Columbus 8 Ohio 24 Feay Co Neal 427 Olive St Santa Barbara Calif 24 Federal Products Corp 1144 Eddy St Providence RI Forsberb Mfg Co 125 Seaview Ave Bridgeport 1 Conn 2-7-23-26 Gaertner Scientific Corp 1250 Wrightwood Ave Chicago 14 III 24 Gee-Lar Mfg Co 418 S Wyman St Rockford III 431-36-37 General Cement Mfg Co Div Textron Inc 400 S Wyman St Rockford III 3-5-26 General Components Inc 225 E 144 St Bronx 51 NY 35	3956 Forbes St Pittsburgh 13 Pa  Maymer Corp 1961 W 112 St Cleveland 2 Ohio 24  Midget Louver Co 6-8 Wall St Norwalk Conn 23  Mil Case Corp 35-18 37 St Long Island City NY 13  Millers Falls Co 57 Wells St Greenfield Mass 2-6-7-12-17-19-20-26-41  Minneapolis-Honeywell Regulator Co Industrial Div Wayne & Windrim Aves Philadelphia 44 Pa 39  Mitchell Industries Inc PO Box 17 F M 1195 Municipal Airport Mineral Wells Texas 29-31-32  Moody Machine Products Co 40 Dudley St Providence 5 RI 7-26  Morris Co J I 390 Elm St Southbridge Mass Multicore Solders Ltd Maylands Ave Hemel Hempstead Hartfordshire England National Cine Equipment Inc	Thomas & Betts CD   36 Butler St Elizabeth NJ   35
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Elm Labs  10 Washington Ave Hastings-on-Hudson NY Engineering Developments Inc Forest Ave Middletown RI Enthoven Solders Ltd 113 N Water St Rochester 4 NY Erser Co 1068 S Clinton St Syracuse 4 NY 40 Ercona Corp 551 5 Ave New York 17 NY 15 Erikson Specialized Tool Co 4902 S Lexington Rd 1'ieo 1 Calif Exact Weight Scale Co 944 W 5 Ave Columbus 8 Ohio 24 Feay Co Neal 427 Olive St Santa Barbara Calif 24 Federal Products Corp 1144 Eddy St Providence RI Forsberb Mfg Co 125 Seaview Ave Bridgeport 1 Conn 2-7-23-26 Gaertner Scientific Corp 1250 Wrightwood Ave Chicago 14 III 24 Gee-Lar Mfg Co 418 S Wyman St Rockford III 43-36-37 General Cement Mfg Co Div Textron Inc 400 S Wyman St Rockford III 3-5-26 General Components Inc 225 E 144 St Bronx 51 NY General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY 28-32 Goe Eng'g Co 219 S Mednik Ave Los Angeles 22 Calif 35 Gordon Enterprises 5362 N Cahuenga Blvd N Hollywood Calif 15	3956 Forbes St Pittsburgh 13 Pa  Maymer Corp 1961 W 112 St Cleveland 2 Ohio 24  Midget Louver Co 6-8 Wall St Norwalk Conn 23  Mil Case Corp 35-18 37 St Long Island City NY 13  Millers Falls Co 57 Wells St Greenfield Mass 2-6-7-12-17-19-20-26-41  Minneapolis-Honeywell Regulator Co Industrial Div Wayne & Windrim Aves Philadelphia 44 Pa 39  Mitchell Industries Inc PO Box 17 F M 1195 Municipal Airport Mineral Wells Texas 29-31-32  Moody Machine Products Co 40 Dudley St Providence 5 RI 7-26  Morris Co J I 390 Elm St Southbridge Mass 8  Multicore Solders Ltd Maylands Ave Hemel Hempstead Hartfordshire England 33  National Cine Equipment Inc 209 W 48 St New York 36 NY 15  New York Mfg & General Supp'y Co 10-38 Jackson Ave Long Island City 1 NY 15  Numberall Stamp & Tool Co Huguenot Park Staten Island 12 NY 16  Ohaus Scale Corp 1050 Commerce Ave Union NJ 24	Thomas & Betts CD   36 Butler St Elizabeth NJ   35
Elm Labs  10 Washington Ave Hastings-on-Hudson NY Engineering Developments Inc Forest Ave Middletown RI Enthoven Solders Ltd 113 N Water St Rochester 4 NY 28-31-32 Eraser Co 1068 S Clinton St Syracuse 4 NY 40 Ercona Corp 551 5 Ave New York 17 NY 15 Frikson Specialized Tool Co 4902 S Lexington Rd Pico 1 Calif Exact Weight Scale Co 944 W 5 Ave Columbus 8 Ohio 24 Feay Co Neal 427 Olive St Santa Barbara Calif 24 Federal Products Corp 1144 Eddy St Providence RI 17 Forsberb Mfg Co 125 Seaview Ave Bridgeport 1 Conn 2-7-23-26 Gaertner Scientific Corp 1250 Wrightwood Ave Chicago 14 III 24 Gee-Lar Mfg Co 418 S Wyman St Rockford III 44-31-36-37 General Cement Mfg Co Div Textron Inc 400 S Wyman St Rockford III 255 Eaview Ave Bridgeport 1 Conn 2-7-23-26 Geenral Components Inc 255 E 144 St Bronx 51 NY 35 General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY 28-32 Goe Eng'g Co 219 S Mednik Ave Los Angeles 22 Calif 35 Gordon Enterprises 5362 N Cahuenga Blvd	3956 Forbes St Pittsburgh 13 Pa Maymer Corp 1961 W 112 St Cleveland 2 Ohio 24 Midget Louver Co 6-8 Wall St Norwalk Conn 23 Mil Case Corp 35-18 37 St Long Island City NY 13 Millers Falls Co 57 Wells St Greenfield Mass 2-6-7-12-17-19-20-26-41 Minneapolis-Honeywell Regulator Co Industrial Div Wayne & Windrim Aves Philadelphia 44 Pa 39 Mitchell Industries Inc PO Box 17 F M 1195 Municipal Airport Mineral Wells Texas 29-31-32 Moody Machine Products Co 40 Dudley St Providence 5 RI 7-26 Morris Co J I 390 Elm St Southbridge Mass 8 Multicore Solders Ltd Maylands Ave Hemel Hempstead Hartfordshire England 33 National Cine Equipment Inc 209 W 48 St New York 36 NY 15 New York Mfg & General Supn'y Co 10-38 Jackson Ave Long Island City 1 NY 15 Numberall Stamp & Tool Co Huguenot Park Staten Island 12 NY 16 Ohaus Scale Corp 1050 Commerce Ave Union NJ 24 Olympic Instrument Labs Vashon Wash 24	Thomas & Betts CD   36 Butler St Elizabeth NJ   35   Thomas Instrument Co Phoenix NY   40   Tinsley Labs Inc   2526 Grove St Berkeley 4 Calif   15   Tipco Mfg Co   14760 Calvert Van Nuys Calif   41   TV Hardware Mfg Co Div Textron Inc   400 S Wyman St Rockford III   18   Ungar Electric Tools Inc   4101 Redwood Ave   Los Angeles 66 Calif   31-32   United Shoe Machinery Corp   140 Federal St Boston 7   Mass   34   Uica Drop Forge & Tool Div Kelsey-Hayes Co   2415 Whitesboro St Utica 4 NY   19-41   Vaco Products Co   317 E Ontario St   Chicago 11 III   5-19-26-35-41   Vulcan Electric Co   88 Holten St Danvers Mass   28-30-31-32   Waige Electric Inc   720 Colfax Ave Kenilworth NJ   29   Wall Mfg Co P Grove City Pa   29-30-31-32   Walsco Electronics Mfg Co   100 W Green St Rockford III   Wassco Electric Products Corp   204 S Larkin Ave Joliet III   31-32   Wenler Electric Corp   601 Stone's Crossing Rd   Easton Pa   29-31-32   Wen Products Inc   5806 Northwest Highway   Chicago 31 III   6-23-29   Wenzel Projector Co   2505 S State St Chicago 16 III   White & Son James L
Elm Labs  10 Washington Ave Hastings-on-Hudson NY Engineering Developments Inc Forest Ave Middletown RI Enthoven Solders Ltd  113 N Water St Rochester 4 NY Engineering Developments Inc Forest Ave Middletown RI Enthoven Solders Ltd  113 N Water St Rochester 4 NY Ericson Specialized Tool Co 4902 S Lexington Rd Pico 1 Calif Exact Weight Scale Co 944 W 5 Ave Columbus 8 Ohio Feay Co Neal 427 Olive St Santa Barbara Calif Federal Products Corp 1144 Eddy St Providence RI Forsberb Mfg Co 125 Seaview Ave Bridgeport 1 Conn 2-7-23-26 Gaertner Scientific Corp 1250 Wrightwood Ave Chicago 14 III Gee-Lar Mfg Co 418 S Wyman St Rockford III 400 S Wyman St Rockford III General Cement Mfg Co Div Textron Inc 400 S Wyman St Rockford III General Components Inc 225 E 144 St Bronx 51 NY General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY 28-32 Goe Eng'g Co 219 S Mednik Ave Los Angeles 22 Calif 35 Gordon Enterprises 5362 N Cahuenga Bivd N Hollywood Calif Greenlee Tool Co 2136 12 St Rockford III 20-26 Gries Reproducer Corp	3956 Forbes St Pittsburgh 13 Pa  Maymer Corp 1961 W 112 St Cleveland 2 Ohio 24  Midget Louver Co 6-8 Wall St Norwalk Conn 23  Mil Case Corp 35-18 37 St Long Island City NY 13  Millers Falls Co 57 Wells St Greenfield Mass 2-6-7-12-17-19-20-26-41  Minneapolis-Honeywell Regulator Co Industrial Div Wayne & Windrim Aves Philadelphia 44 Pa 39  Mitchell Industries Inc PO Box 17 F M 1195 Municipal Airport Mineral Wells Texas 29-31-32  Moody Machine Products Co 40 Dudley St Providence 5 RI 7-26  Morris Co J I 390 Elm St Southbridge Mass 8  Multicore Solders Ltd Maylands Ave Hemel Hempstead Hartfordshire England 33  National Cine Equipment Inc 209 W 48 St New York 36 NY 15  New York Mfg & General Supp'y Co 10-38 Jackson Ave Long Island City 1 NY 15  Numberall Stamp & Tool Co Huguenot Park Staten Island 12 NY 16  Ohaus Scale Corp 1050 Commerce Ave Union NJ 24  Olympic Instrument Labs Vashon Wash 24	Thomas & Betts CD   36 Butler St Elizabeth NJ   35
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Elm Labs  10 Washington Ave Hastings-on-Hudson NY Engineering Developments Inc Forest Ave Middletown RI Enthoven Solders Ltd 113 N Water St Rochester 4 NY Ersteven Colores Ltd 113 N Water St Rochester 4 NY Ersteven Colores S Clinton St Syracuse 4 NY Ersteven Colores S Colores Syracuse 4 NY Ersteven Colores S Colores S Colores Syracuse 4 NY Ersteven Colores S Colores Colores S Colores S Colores S Colores S Colores Colores S Colores	3956 Forbes St Pittsburgh 13 Pa Maymer Corp 1961 W 112 St Cleveland 2 Ohio 24 Midget Louver Co 6-8 Wall St Norwalk Conn 23 Mil Case Corp 35-18 37 St Long Island City NY 13 Millers Falls Co 57 Wells St Greenfield Mass 2-6-7-12-17-19-20-26-41 Minneapolis-Honeywell Regulator Co Industrial Div Wayne & Windrim Aves Philadelphia 44 Pa 39 Mitchell Industries Inc PO Box 17 F M 1195 Municipal Airport Mineral Wells Texas 29-31-32 Moody Machine Products Co 40 Dudley St Providence 5 RI 7-26 Morris Co J I 390 Elm St Southbridge Mass 8 Multicore Solders Ltd Maylands Ave Hemel Hempstead Hartfordshire England 33 National Cine Equipment Inc 209 W 48 St New York 36 NY New York Mfg & General Supp'y Co 10-38 Jackson Ave Long Island City 1 NY 15 Numberall Stamp & Tool Co Huguenot Park Staten Island 12 NY Ohaus Scale Corp 1050 Commerce Ave Union NJ Olympic Instrument Labs Vashon Wash Qto Condition 15 Orbit Industries	Thomas & Betts CD   36 Butler St Elizabeth NJ   35
Elm Labs  10 Washington Ave Hastings-on-Hudson NY Engineering Developments Inc Forest Ave Middletown RI Enthoven Solders Ltd  113 N Water St Rochester 4 NY 28-31-32 Eraser Co 1068 S Clinton St Syracuse 4 NY 40 Ercona Corp 551 5 Ave New York 17 NY 15 Erikson Specialized Tool Co 4902 S Lexington Rd l'ico 1 Calif 1-5-7-19-21-26 Exact Weight Scale Co 944 W 5 Ave Columbus 8 Ohio 24 Feay Co Neal 427 Olive St Santa Barbara Calif 24 Federal Products Corp 1144 Eddy St Providence RI Forsberb Mfg Co 125 Seaview Ave Bridgeport 1 Conn 2-7-23-26 Gaertner Scientific Corp 1250 Wrightwood Ave Chicago 14 III 24 Gee-Lar Mfg Co 418 S Wyman St Rockford III 400 S Wyman St Rockford III 3-5-26 General Cement Mfg Co Div Textron Inc 400 S Wyman St Rockford III 3-5-26 General Components Inc 225 E 144 St Bronx 51 NY General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY 28-32 Goe Eng'g Co 219 S Mednik Ave Los Angeles 22 Calif 35 Gordon Enterprises 5362 N Cahuenga Bivd N Hollywood Calif Greenlee Tool Co 2136 12 St Rockford III 20-26 Gries Reproducer Corp 125 Beechwood Ave New Rochelle NY 16 Griffin Co John 2157 James Ave St Paul 5 Minn 16	3956 Forbes St Pittsburgh 13 Pa  Maymer Corp 1961 W 112 St Cleveland 2 Ohio 24  Midget Louver Co 6-8 Wall St Norwalk Conn 23  Mil Case Corp 35-18 37 St Long Island City NY 13  Millers Falls Co 57 Wells St Greenfield Mass 2-6-7-12-17-19-20-26-41  Minneapolis-Honeywell Regulator Co Industrial Div Wayne & Windrim Aves Philadelphia 44 Pa 39  Mitchell Industries Inc PO Box 17 F M 1195 Municipal Airport Mineral Wells Texas 29-31-32  Moody Machine Products Co 40 Dudley St Providence 5 RI 7-26  Morris Co J I 390 Elm St Southbridge Mass 8  Multicore Solders Ltd Maylands Ave Hemel Hempstead Hartfordshire England National Cine Equipment Inc 209 W 48 St New York 36 NY New York Mfg & General Supply Co 10-38 Jackson Ave Long Island City 1 NY 15  Numberall Stamp & Tool Co Huguenot Park Staten Island 12 NY 16  Ohaus Scale Corp 1050 Commerce Ave Union NJ 24  Olympic Instrument Labs Vashon Wash 24  Opto Eng'g Co 3524 W Washington Blvd Los Angeles 18 Calif 15  Orbit Industries Box 666 Reseda Calif 38	Thomas & Betts CO   36 Butler St Elizabeth NJ   35   Thomas Instrument Co Phoenix NY   40   Tinsley Labs Inc   2526 Grove St Berkeley 4 Calif   15   Tipco Mfg Co   14760 Calvert Van Nuys Calif   TV Hardware Mfg Co Div Textron Inc   400 S Wyman St Rockford III   18   Ungar Electric Tools Inc   4101 Redwood Ave   Los Angeles 66 Calif   31-32   United Shoe Machinery Corp   140 Federal St Boston 7   Mass   34   Utica Drop Forge & Tool Div Kelsey-Hayes Co   2415 Whitesboro St Utica 4 NY   19-41   Vaco Products Co   317 E Ontario St   Chicago II III   5-19-26-35-41   Vulcan Electric Co   88   Holten St   Danvers Mass   28-30-31-32   Wange Electric Irc   720   Colfax Ave Kenilworth NJ   28   Walse Electric Irc   720   Colfax Ave Kenilworth NJ   28   Walse Electric St   Grove City Pa   29-30-31-32   Walseo Electronics Mfg Co   100 W Green St Rockford III   31-32   Walseo Electric Products Corp   204 S Larkin Ave Joliet III   31-32   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 32   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 32   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 3
Elm Labs  10 Washington Ave Hastings-on-Hudson NY Engineering Developments Inc Forest Ave Middletown RI Enthoven Solders Ltd 113 N Water St Rochester 4 NY Ersteven Colores Ltd 113 N Water St Rochester 4 NY Ersteven Colores S Clinton St Syracuse 4 NY Ersteven Colores S Colores Syracuse 4 NY Ersteven Colores S Colores S Colores Syracuse 4 NY Ersteven Colores S Colores Colores S Colores S Colores S Colores S Colores Colores S Colores	3956 Forbes St Pittsburgh 13 Pa Maymer Corp 1961 W 112 St Cleveland 2 Ohio 24 Midget Louver Co 6-8 Wall St Norwalk Conn 23 Mil Case Corp 35-18 37 St Long Island City NY 13 Millers Falls Co 57 Wells St Greenfield Mass 2-6-7-12-17-19-20-26-41 Minneapolis-Honeywell Regulator Co Industrial Div Wayne & Windrim Aves Philadelphia 44 Pa 39 Mitchell Industries Inc PO Box 17 F M 1195 Municipal Airport Mineral Wells Texas 29-31-32 Moody Machine Products Co 40 Dudley St Providence 5 RI 7-26 Morris Co J I 390 Elm St Southbridge Mass 8 Multicore Solders Ltd Maylands Ave Hemel Hempstead Hartfordshire England 33 National Cine Equipment Inc 209 W 48 St New York 36 NY New York Mfg & General Supp'y Co 10-38 Jackson Ave Long Island City 1 NY 15 Numberall Stamp & Tool Co Huguenot Park Staten Island 12 NY Ohaus Scale Corp 1050 Commerce Ave Union NJ Olympic Instrument Labs Vashon Wash Qto Condition 15 Orbit Industries	Thomas & Betts CD   36 Butler St Elizabeth NJ   35
Elm Labs  10 Washington Ave Hastings-on-Hudson NY Engineering Developments Inc Forest Ave Middletown RI Enthoven Solders Ltd 113 N Water St Rochester 4 NY 28-31-32 Eraser Co 1068 S Clinton St Syracuse 4 NY 40 Ercona Corp 551 5 Ave New York 17 NY 15 Erikson Specialized Tool Co 4902 S Lexington Rd Pico 1 Calif Exact Weight Scale Co 944 W 5 Ave Columbus 8 Ohio 24 Feay Co Neal 427 Olive St Santa Barbara Calif 24 Federal Products Corp 1144 Eddy St Providence RI 17 Forsberb Mfg Co 125 Seaview Ave Bridgeport 1 Conn 2-7-23-26 Gaertner Scientific Corp 1250 Wrightwood Ave Chicago 14 III 24 Gee-Lar Mfg Co 418 S Wyman St Rockford III 400 S Wyman St Rockford III 400 S Wyman St Rockford III 5-5-26 General Components Inc 225 E 144 St Bronx 51 NY 5-6-6 General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY 28-32 Goe Eng'g Co 219 S Mednik Ave Los Angeles 22 Calif 35 Gordon Enterprises 5362 N Cahuenga Blvd N Hollywood Calif Greenlee Tool Co 2136 12 St Rockford III 20-26 Gries Reproducer Corp 125 Beechwood Ave New Rochelle NY 16 Griffin Co John 2157 James Ave St Paul 5 Minn 16 Hal-Hen Co	3956 Forbes St Pittsburgh 13 Pa	Thomas & Betts CO   36 Butler St Elizabeth NJ   35   Thomas Instrument Co Phoenix NY   40   Tinsley Labs Inc   2526 Grove St Berkeley 4 Calif   15   Tipco Mfg Co   14760 Calvert Van Nuys Calif   TV Hardware Mfg Co Div Textron Inc   400 S Wyman St Rockford III   18   Ungar Electric Tools Inc   4101 Redwood Ave   Los Angeles 66 Calif   31-32   United Shoe Machinery Corp   140 Federal St Boston 7   Mass   34   Utica Drop Forge & Tool Div Kelsey-Hayes Co   2415 Whitesboro St Utica 4 NY   19-41   Vaco Products Co   317 E Ontario St   Chicago II III   5-19-26-35-41   Vulcan Electric Co   88   Holten St   Danvers Mass   28-30-31-32   Wange Electric Irc   720   Colfax Ave Kenilworth NJ   28   Walse Electric Irc   720   Colfax Ave Kenilworth NJ   28   Walse Electric St   Grove City Pa   29-30-31-32   Walseo Electronics Mfg Co   100 W Green St Rockford III   31-32   Walseo Electric Products Corp   204 S Larkin Ave Joliet III   31-32   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 31   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 32   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 32   III   6-23-29   Wen Products Inc   5806   Northwest Highway   Chicago 3

Wyzenbeek & Staff Inc	Arnold Eng'g Co	Coil Winders Inc
233 N California Ave Chicago 12 III 3-23 Xcelite Inc Bank Orchard Park NY 19-36-41	P O Box G Marengo III 30 Arnold Magnetics Corp	New York Ave 1-2-3-4-5-6-7-9 Westbury L1 NY 10-24-25-26-28-29
94—TRANSFORMERS	4615 W Jefferson Blvd	Columbus Process Co 2850 Southeastern Ave 2-3-4-6-7-9-13-15
	Los Angeles 16 Calif 9-20-22-25-29-31 Artted Co	Columbus Ind 16-17-18-19-21-22-26-28
Transformers, antenna matching 1 Transformers, audio	367 Worthington St Springfield 3 Mass 24 Associated Research Inc	Communication Accessories Co 4-5-6-7-9-10 110 St & 71 Hwy 11-12-13-15-16-17
Transformers, audio	3758 W Belmont Ave Chicago 18 Ill 6	Hickman Mills Mo 18-19-20-22-23-24 25-26-27-28-29
frequency	Atlas Eng'g Co 176 Blue Hill Ave 2-3-4-5-6-7-8-9-10-11	Consolidated Productions Inc
Transformers, autotransformer 4	Roxbury 19 12-13-14-15-16-17-18-19 Mass 20-21-22-23-24-25-26-27-28	Broward Int'l Airport Ft Lauderdale I'la 8 Control Corp
Transformers, bias	Audio Development Co,	718 Central Ave NE Minneapolis 14 Minn 7-12-13
Transformers, filament 7	2833 13 Ave S 1-2-3-4-5-6-7-9-11-13-15 Minneapolis Minn 16-17-20-23-25-26-27-29	Crescent Eng'g & Research Co
Transformers, flyback	Automatic Coil Co 415 Bedford Ave Brooklyn 11 NY 24-26	Crost Transformer Corn
Transformers, 400 cycle 9	Avion Div ACF Industries Inc	1834 W North Ave 2-3-4-5-7-9-10-11 Chicago 22 Ill 13-15-16-18-19-26-28
Transformers, HV	11 Park Pl 1-9-10-11-20 Paramus NJ 23-24-25-26-29	Crittenden Transformer Works
Transformers, insulation 12	Avionics Ltd P O Box 200 Niagara-on-the-Lake	1220 Nadeau St Los Angeles 1 Calif 4-6-7-9-10-12-13-16
Transformers, isolation 13	Ont Canada 14 Ballastran Corp	Cycle Transformer Corp 356 Glenwood Ave 2-3-4-5-7-9-12
Transformers, microwave 14 Transformers, modulation 15	1701 N Calhoun St 2-3-4-5-6-7-9-10-13-15	E Orange 11 NJ 13-15-16-22-26-27 Dallons Labs
Transformers, plate 16	Ft Wayne Ind 16-17-20-23-25-26-2 Barker & Williamson Inc	5066 Santa Monica Blvd
Transformers, plug-in 17	Canal & Beaver Sts Bristol Pa 1-23-24-25-26 Barwood Electronics Inc	Dane Electronic Labs Inc
Transformers, power receiving. 18	921 E Broadway	P O Box 209 Salem Mass Davenport Mfg Co
Transformers, power transmitting 19 Transformers, precision matched 20	Glendale 5 Calif 2-3-4-7-9-10-16-17-26 Basler Electric Co	1713 N Ashland Ave Chicago 22 111
Transformers, precision TV	601 5 St 3-4-5-6-7-9-10-11-12-13-14-15-16-17 Highland III 18-19-20-22-23-25-26-27-28-29-31	Del Electronics Corp 41 N MacQuesten Pkwy 4-6-7-9-10
deflection 21	Berkshire Labs	Mt Vernon NY Delevan Electronics Corp
Transformers, precision voltage	586 Bank Village Greenville NH 17-23 Better Coil & Transformer Corp	Roycroft Campus E Aurora NY 24 DeMornay-Bonardi Corp
dividing	Goodland 2-3-4-6-7-9-10-11-12-1; Ind 16-18-19-20-26-28-31	780 S Arroyo Pkwy Pasadena Calif
Transformers, RF-IF 24	Bitterman Electric Co	Delta Radio Co 115 Worth St New York 13 NY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Transformers, toroidal 25	Blackburn Electronic Corp	Dietz Design & Mfg Co 2-3-4-9-10-11-15-16 Grandview 13 Mo 17-18-19-20-23-24-25-31
Transformers, transistor 26 Transformers, ultrasonic 27	55 W 7 St Wyoming Pa 25 Blonder-Tongue Laboratories	Digitronics Corp 35-10 36 Ave Long Island City 6 NY 23
Transformers, vibrator 28	9-25 Alling St Newark 2 NJ Bogue Electric Mfg Co	Dilectron Div Gudeman Co
Transformers, voltage, regulating 29	Iowa Ave Paterson 3 NJ 6-9-19 Brew & Co Richard D	2669 S Myrtle Ave Monrovia Calif
Transformer laminations 30 Transformer windings 31	90 Airport Rd Concord NH 22	Dinion Coil Co Caledonia NY  2-4-7-9-10-11-13-15-16 17-18-19-22-23-25-26-28
Accurate Eng'g Co	Bristol Co P O Box 1790 EITT Waterbury 20 Conn 11	Dittmore-Freimuth Corp 2517 E Norwich St Milwaukee 7 Wis 24-7-10
2005 Blue Island Ave	Drubaker Electronics Inc	
Chicago 8 III Ace Coil & Electronics Co	budd Stanley Co	3418 Milwaukee Ave Chicago 41 111
916 Lincoln Hwy Metuchen NJ 24 Acme Electric Corp	43-01 22 St Long Island City 1 NY Burroughs Corp Electronic Instruments Div	13144 W McNichols Rd Detroit 35 Wien 25
Water St 4-9-10-11-12-13-14-15-16-17	Cable Electric Products 23	402 E Gutierree St Santa Barbara Cam 25
Acro Products Co	234 Daboll St Providence 7 RI 6-17-19 Caddell-Burns Mfg Co	Dyna Co 5142 Master St Philadelphia 31 Pa 2-18 18 Phys. Flortropics Eng's Co 2-3-4-5-6-7-9
369 Shurs Lane Philadelphia 28 Pa 2-4-9-18-23 A C Transformer Corp	40 E 2 St Mineola NV	Edko Electronics Eng g Co 10-11-12-13-15-16-17-18
89 Madison St	4801 Exposition Rlyd Los Apgeles 16 Calif NA	Brooklyn 11 NY 19-20-25-26-21-26-25
Adler Electronics Inc	P. O. D 200	Electran Mfg Co 1901 Clybourn Ave 2-4-5-6-7-9-10-11 12-13-15-16-19-28
1 LeFevre Lane New Rochelle NY 2: Admittance Namco Corp	Caledonia NY 15 16 22 22 25	Micago 14 11
Marine St Farmingdale LI NY Aerovox Corp Pacific Coast Div	Calif Magnetic Control Corp 11922 Valerio St 2-3-4-5-6-7-9-10-11	158 11 St San Francisco 3 Cam
2724 S Peck Rd 1-2-5-6-7-9-12	N Hollywood 12-13-15-16-17-18-19 Calif 20-21-22-23-25-26-27-28-29	2015 N Kolmar Ave 2-5-4-6-7-5-10-10
Airmec Ltd	Cambridge Thermionic Corp 445 Concord Ave Cambridge 38 Mass 24-26	Chicago 39 III  Electro Eng'g Works  2-4-6-7-9-10-11-12
High Wycombe Buckinghamshire England 29	Campbell Co Colin	San Leandro Calif 13-14-15-16-19-24-29
Airpax Products Co Middle River 2-3-4-5-6-7-9-10-15	Westville Ave Ext 2-4-6-7-9-11-12 Danbury Conn 13-16-18-23-25-29	Electronic Coil Co 2506 N Ontario St Burbank Calif 10-24
Baltimore 20 Md 16-17-18-19-23-26-28 Airtron Inc	Campbell X-Ray Corp 110 Cummington St 4-6-7-9-10-12-13	Electronic Computer Co 6191 Ridge Ave Philadelphia 28 Pa 23
1101 W Elizabeth Ave Linden N.I.	Boston 15 Mass 16-17-18-19-23 Carad Corp	
Aladdin Electronics 100 Blanton Ave Nashville 10 Tenn 23-21	2850 Bay Rd	Electronic Transformer Co.  70 Washington St 2-3-4-5-6-7-9-10-11-12-13-  Brooklyn 1 NY 15-16-18-19-23-25-27
17 Elm St Buffalo 3 NY	Redwood City Calif 9-10-15-23-25 Carol Electronics Corp	Electrosolids Corp
Allis-Chalmers Mfg Co	315 W Stephen St Martinsburg W Va 2-4-7-19-28	7436 Varna Ave N Hollywood Calif 2-4-9-26
Altec Lansing Corp	C B C Electronics Co 2601 N Howard St Philadelphia 33 Pa 4-23	El-Rad Mfg Co 2800 W Gullom Ave
1515 S Manchester Ave 2-3-4-5-6-7-8-9-11 Anaheim Calif 13-15-16-17-23-25-27-29	CELCO Constantine Eng'g Labs Co	Chicago 18 III 1-8-23-24-25-26-21
855 Commercial St. D. L. Alice Co.	P O Box 555 2-3-4-5-6-7-8-9-10-11-12-13 Mahwah NJ 15-17-20-21-22-23-24-25-26-27-28	Engineered Magnetics Div Gulton Industries Inc
American toll inc	Central Coil Co 1720 N Luett St 1-2-3-4-5-6-7-9-11-13-16-17	13030 Cerise Ave Hawthorne Calif 26
21-28 45 Rd Long Island City 1 NY 24 American Rectifier Corp	Indianapolis 22 Ind 18-20-21-22-23-24-26-28 Central Transformer Co	Entron Inc 4902 Lawrence St Bladensburg Md 1-24
95 Lafayette St New York 13 NY 4-9-29 American Research & Mfg Corp	910 W Jackson Blvd 2-3-4-5-6-7-9-10-12-13-14	Epco Products Inc 2500 Atlantic Ave 2-3-4-5-7-9-10-13-
920 Halpine Ave Rockville Md 25 American Transformer Co	Chicago 7 Ill 15-16-18-19-23-29 Century Coil Corp	Brooklyn 7 NY 15-17-18-19-25-27-31
DIV Standard Electronics 1994 Ecopolo	1534 N Clybourn Ave Chicago 10 Ill 4-9-12-13-16-19	Epsco Inc 588 Commonwealth Ave Boston 15 Mass 23
Newark 5 NJ 21 22 22 24 25 26 27 29 29	Chicago Electronic Engig Co	Erie Resistor Corp
155 Park St Elizabethtown Pa 7 0 10 20	3223 W Armitage Ave Chicago 47 Ill 2-7-9-19 Chicago Magnetic Control	ESC Corp
Anchor Products Co	1616 N Damen Ave Chicago 47 Ill 2-9 Chicago Standard Transformer Corp	534 Bergen Blvd Palisades Park NJ 23 Espey Mfg Co 4-6-7-8-9-10-11-12-13-14-15-
2712 W Montrose Ave Chicago 18 Ill 7-29 Anderson Controls Inc	3501 W Addison St 2-4-5-7-8-9-10-13-15 Chicago 31 Ill 16-18-19-21-23-26-28-29	Congress & Ballston Ave 16-17-18-19-20-21-
2777 Mannheim Rd Des Plaines III 4-6-7-9-18-19	Chicago Telephone of Calif	Saratoga Springs NY 22-23-24-25-26-27-28 Essex Electronics Div NYT
Annis Co R B 1101 N Delaware St Indianapolis 2 Ind 6-11	105 Pasadena Ave S Pasadena Calif 29 Cinema-Television Ltd	Electronics Inc 7303 Atoll Ave N Hollywood Calif 23-24-25
Applied Addistion Corn	Worsley Bridge Rd Lower Sydenham London SE 26 England 21	Essex Electronics
2404 N Main St Walnut Creek Calif 23 A P W Co 72 W Main St Rockaway NJ 26	Coil Company of America 2-3-4-5-7-9-10-12	550 Springfield Ave Berkeley Heights NJ 23-24
1602 S Hanna St 1-2-3-4-5-6-7-9 10 11	Northvale NJ 19-22-25-26-28	Ferranti Electric Inc
1602 S Hanna St 1-2-3-4-5-6-7-9-10-11 Ft Wayne 5 Ind 12-13-14-16-17-24-26-28	Coil Eng'g & Mfg Co Roanoke Ind 2-4-6-7-16-18-26-28	30 Rockefeller Plaza 2-3-4-5-7-9-10-12-13- New York 20 NY 15-16-17-18-19-26-27-28

Filtron Co	King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio 29	New England Transformer Co 47 McGrath Hwy 1-2-4-5-6-9-10-11-12-14-15
131-15 Fowler Ave Flushing 55 NY 2-7-8-9-10-16-23-24-25	Knopp Inc	Somerville 43 Mass 17-18-19-20-21-22-23
Fisher Eng'g Inc PO Box 327 2-3-4-5-6-7-9-10-12-	4224 Holden St Oakland 8 Calif 6-7-9-11-16	New York Coil Co 40 2 Ave
Huntington Ind 13-15-16-17-23-26 Forbes & Wagner Inc	Kobzy Tool Co 1535 N Dayton St Chicago 22 III 30	Phoenixville Pa 2-3-6-7-18-19-24-29-31 New York Transformer Co
343 Central Ave Silver Creek NY 8-23-24-25 Foster Transformer Co	K-V Transformer Corp 2-3-4-5-6-7-9-10 20 E Franklin St 11-13-15-16-17-18	3 Ave 2-4-5-6-7-9-10-13-14-15 Alpha NJ 16-17-18-23-25-26
3820 Colerain Ave 4-7-9-13-15- Cincinnati 23 Ohio 16-18-23-28	20 E Franklin St 11-13-15-16-17-18 Danbury Conn 19-20-23-26-27-28 Laboratory for Electronics Inc	N J E Corp 345 Carnegie Ave
Fox Products Co 4720 N 18 St Philadelphia 41 Pa 6	75 Pitts St Boston 14 Mass 7-9-10-16-23-24-25	Kenilworth NJ 4-5-7-9-10-13-16-18-19-23-29 Noel Mfg Co
Freed Transformer Co 2-3-4-5-7-9-10-11-12-	Laminations Co	3 W 18 St New York 11 NY 7
1718-36 Weirfield St 13-14-15-16-17-18-19- Brooklyn 27 NY 20-22-23-25-26-27-28	Langevin Mfg Corp 2-3-4-5-6-7-9-10-11-12	Northern Plastics Corp 2nd Market St LaCrosse Wis 30
Fugle-Miller Labs Inc 301 Central Ave Clark NJ 1-10-24	47-37 Austell Pl 13-15-16-17-18-19-20-22 Long Island City 1 NY 23-25-26-28-29	North Hills Electric Co 402 Sagamore Ave Mineola LI NY 23-24-27
General Bronze Corp 711 Stewart Ave Garden City NY 14	Lee Electric Inc 566 52 St W New York NJ 4-12-28-29-31	Nothelfer Winding Labs Inc 106 Albemarle Ave 4-6-7-9-10-11-12
General Coil Products Corp 43 Roselle St Mineola NY 1-2-24-26	Lee Electric & Mfg Co 2806 Clearwater St	Trenton 8 NJ 13-16-18-19-25 N R K Mfg & Eng'g Co
General Controls Co 801 Allen Ave Glendale 1 Calif 6	Los Angeles 39 Calif 4-6-7-9-11-13-25-28 Leonard Electric Products Co	4601 W Addison St Chicago 41 III 14 NYT Electronics Inc 1-2-3-4-5-6-7-9-10-11
General Electric Co Apparatus Sales Div	67 34 St Brooklyn 32 NY 1-8-21-24-25	2979 N Ontario St 13-14-15-16-17-18-19 Burbank Calif 20-23-24-25-26-27-28
1 River Rd 2-5-7-9-11-13-14-15- Schenectady 5 NY 16-18-19-23-28-29	Lindberg Eng'g Co 2450 W Hubbard St Chicago 12 Ill 17	Ogden Coil & Transformer Co 3323 W Cermak Rd 4-6-7-9-10-11-12-13
General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wisc 10	Linlar Inc 4101 San Fernando Rd	Chicago 23 III 16-17-18-23-26-28
General Instrument Corp F w Sickles Div Chicopee Mass 8-21-22-25	Glendale 4 Calif 2-4-7-9-13-18-26-28 Litton Industries of Calif	Ohmite Mfg Co 3601 Howard St Skokie Ill 4-29
General Instrument Corp Automatic Mfg Div 65 Gouveurner St Newark NJ 24-26	336 N Foothill Rd 2-3-4-5-6-7-8-9-10-11-12 Beverly Hills Calif 13-14-15-16-17-18-19-23	Ortho Filter Corp 196 Albion Ave 1-2-3-4-5-6-7-9-10-11-12
General Radio Co 275 Massachusetts Ave	25-26-27-28-29 Luther Electronic Mfg Co	Paterson 2 NJ 13-14-15-16-17-18-23-25 Osborne Electronic Corp 1-2-3-4-5-6-7-9-10
Cambridge 39 Mass 2-4-9-25 General Transformer Co 2-3-4-5-6-7-9-10	5728 W Washington Blvd	712 S E Hawthorne Blvd 11-13-15-16-18-19 Portland 14 Ore 20-22-23-24-25-26-28
18240 Harwood Ave 11-12-13-15-16-17	Lynmar Engineers Inc	Osborne Transformer Corp
Homewood III 18-19-20-22-26-28 Geotronic Labs Inc	1432 N Carlisle St Philadelphia 21 Pa 1-24 Macarr Inc	948 E Lafayette Ave 4-6-7-9-10-12 Detroit 7 Mich 13-16-19-22-25-27
1314 Cedar Hill Ave Dallas 8 Texas 3-4-7-9-10-16-23-25-26	2543 Boston Rd New York 67 NY 4 McDowell Electronics Inc	Oxford Electric Corp 3911 S Michigan Ave
Gertsch Products Inc 11846 Mississippi Ave	105 Forrest St Metuchen NJ 6 McGregor Electronic Industries Inc	Chicago 15 Ill 2-4-7-8-13-21-26-28 Packard Bell Electronics Corp
Los Angeles 25 Calif 4-11-22 Good-All Electric Mfg Co	132 1 St McGregor Iowa 2 Magnatran Inc	12333 W Olympic Blvd Los Angeles 64 Calif 23
Good-All Electric Mfg Co Good-All Bldg Ogallala Nebr Goslin Electric & Mfg Co 2-3-4-5-6-7-8	Box 211 Kearny NJ 4-7-10-12-13-15-16-19 Magnetic Amplifiers Inc	Palo Alto Eng'g Co 620 Page Mill Rd 2-3-4-5-7-9-10-11-12-13
2921 W Olive Ave 9-10-11-13-14-15-16-17-18	632 Tinton Ave New York 55 NY 4-9-25-29	Palo Alto Calif 16-17-18-19-23-26-28-31 Partridge Transformers Ltd 2-3-4-5-6-7-8-9
Gramer-Halldorson Transformer Corp	Magnetic Metals Co Hayes Ave & 21 St Camden 1 NJ 30	Roebuck Rd 10-11-12-13-14-15
2734 N Pulaski Rd 2-3-4-5-6-7-8-9-10-13 Chicago 39 Ill 15-16-17-18-19-23-25-26-28	Magnetic Research Corp 3160 W El Segundo Blvd	Tolworth Surrey England 16-17-18-19-23-26 PCA Electronics Inc
Grand Ra-Tronics Inc 17360 Hayes Rd 2-4-6-7-10-11	Hawthorne Calif 23 Magnetics Inc	16799 Schoenborn St Sepulveda Calif 23-25 Pearson Electronics '
Grand Haven Mich 13-18-19-27 Grand Transformers Inc	Box 391 Butler Pa 30 Magnetic Specialties Co	1200 Bryant St Palo Alto Calif 23 Peerless Electrical Products
Beechtree & Marion Sts 2-3-4-5-7-9-12-13	18 Scudder Ave Northport LI NY 25 Melco Products Inc 2-3-4-5-6-7-8-9-10-11	1515 S Manchester Ave 2-3-4-5-6-7-9-10 Anaheim Calif 13-15-16-17-20-22
Gray & Kuhn	301 5 Ave S 12-13-14-15-16-17-18 Minneapolis 15 Minn 19-22-23-25-26-28-29	Penn-East Eng'g Corp Willow St Kutztown Pa 2-4-5-7-16
20 Railroad Ave Roslvn Heights NY 1-24 Hall Mfg Co	Marit Cail & Transformer Corn	Penn Transformer Corp
3901 Wesley Terrace Schiller Park III 25 Harder Co Donald C	4427 N Clark St 1-2-4-7-8-10-11-13 Chicago 40 III 15-16-18-24-26-28	E Bishop St Ext Bellefonte Pa 8-21 Permoflux Products Co
3710 Midway Dr San Diego 10 Calif 2-9-23-24-25-26-31	80 Trowbridge St Cambridge 38 Mass 20-25	4101 San Fernando Rd Glendale 4 Calif 2-3-6-9-16-17-26
Heath Co 305 Territorial Rd Benton Harbor Mich 13	Microlab Okner Pkwy Livingston NJ 14	Perma-Power Co 3102 N Elston Ave Chicago 18 III 7
Hermetic Seal Transformer Co P O Box 277 2-3-4-7-9-13-15	Microtran Co 145 E Mineola Ave 2-3-4-5-7-9-10-11-13-15	Pittsburgh Coil Co Box 700 Carnegie Pa 7-16-18-19-28-31
Garland Texas 16-19-20-23-25-28	Valley Stream NY 16-17-19-20-22-23-26-28-31 Millen Mfg Co James	Polyphase Instrument Co E 4 St Bridgeport Pa 9-17-23-24-25-26
Hevi-Duty Electric Co 4212 W Highland Blvd	150 Exchange St Malden 48 Mass 24 Miller Co J W	Power Transformer Co 91 Edison Pl 2-3-4-5-6-7-8-9-10
Milwaukee 1 Wis 4-6-7-12-13 Highland Eng'g Co	5917 S Main St	Newark 5 NJ 12-13-16-18-22-28-29 Pulse Eng'g Inc
90 Magnolia St 2-3-4-5-6-7-9-10-12 Westbury NY 13-15-16-17-18-19-28	Los Angeles 3 Calif 1-10-23-24-26 Milwaukee Transformer Co	2657 Spring St
Hindle Transformer Co Woods Church Rd 4-7-9-10-11-12-13	5231 N Hopkins St 1-2-3-4-5-6-7-9-10-11 Milwaukee 12 Wis 13-16-17-18-23-25-26	Redwood City Calif 9-15-20-22-23-25-26 Pye Canada Ltd
Flemington NJ 15-16-17-18-19-23	Minneapolis-Honeywell Regulator Co Industrial Div Wayne & Windrim Aves	82 Northline Rd Toronto 16 Ont Canada 2-3-4-7
Inductor Eng'g Inc 117 Schley Ave 2-4-7-9-16-18-19-23	Philadelphia 44 Pa 11 Modern Industries Inc	Q L C Corp Flocktown Rd Long Valley NJ 24
Lewes Dela 25-26-27-28-31 Industrial Transformer Corp 2-3-4-5-6-7-9	2601 Colorado Ave 2-3-4-5-6-7-9-10-11-13 Santa Monica Calif 16-22-23-25-26-29	Quam-Nichols Co
Gouldsboro Pa 10-11-12-13-14-15-16-17-18 19-20-22-23-25-26-27-28-29	Mohawk Business Machines Corp 2-3-4-5-6-7-8	Quaré Associates
Insulation Mfrs Corp 565 W Washington Blvd Chicago 39 Ill 30	Brooklyn 33 NY 18-19-20-22-25-26-28-29	Canton Mass 11-22 Radar Design Corp
Interelectronics 2432 Grand Concourse	Molded Fiber Glass Co 4801 Benefit Ave Ashtabula Ohio 12	210 5 Ave New York 16 NY Radio Corp of America Commercial
New York 58 NY 5-9-16-18-19-26-29	Moloney Electric Co 5390 Bircher Blvd	Electronic Products Camden 2 NJ 2-4-8-13-17-21
Islip Transformer & Metal Co Beech St 1-2-3-4-5-7-9-13	St Louis 20 Mo 7-9-10-15-16-23 Muirhead Instruments Inc	Radio Industries Inc 5225 N Ravenswood Ave
Islip NY 15-16-18-19-24-28 Jack & Heintz Inc	677 5 Ave New York 22 NY 2-11-27 Multi-Amp Corp	Chicago 25 Ill 23-24-26
17600 Broadway Cleveland 1 Ohio 6-9 Jacobs Instrument Co	465 Lehigh Ave Union NJ 4-9-10-11-13 Mystic Transformers Inc	Ram Electronics Inc 600 Industrial Ave
4718 Bethesda Ave Bethesda 14 Md 23	63 Swanton St 2-3-4-5-7-9-10	Paramus NJ 2-4-8-10-21-23-24 Ransom Research
Jensen Mfg Co 6601 S Laramie Ave Chicago 38 III 2-4	Winchester Mass 12-13-16-23-27 Narda Corp	323 W 7 St San Pedro Calif 29-33 Ratigan Electronics Inc
Johnson Co E F Waseca Minn 24	160 Herricks Rd Mineola NY 14 National Aircraft Corp Electronics Div	3614 Maple Ave Los Angeles 11 Calif 24 Rayco Electronic Mfg Inc
Johnson Electronics Inc 521 Elwell St	3411 Tulare Ave 2-3-4-6-7-9-10-11-13 Burbank Calif 16-18-19-23-24-25-26-28-29	11116 Cumpston St N Hollywood Calif 25
Orlando Fla 1-2-3-9-20-23-24-25-26-31 Johns-Manville	National Coil Co P O Box 1237	Raypar Ine 7800 W Addison St Chicago 34 III 4-7-8-10
22 E 40 St New York 16 NY 12 Kenyon Transformer Co 2-3-4-5-7-9-10-11	Sheridan Wyo 1-2-3-5-7-9-21-24-26-27-31 National Company Inc	Raytheon Mfg Co 100 River St 2-6-7-9-10-14-15-16
840 Barry St 13-15-16-17-18-19	61 Sherman St Malden 48 Mass 24 Nems-Clarke Inc	Waltham 54 Mass 23-24-25-26-27-29 Raytheon Mfg Co Commercial Equip Div
New York 59 NY 20-23-26-27-28-29 Keystone Products Co	919 Jesup-Blair Dr Silver Spring Md 1	100 River St Waltham 54 Mass 13 Redman Electronics Corp
904 23 St 2-3-5-9-10-13-15-16-18 Union City NJ 19-20-23-25-26-28-29	Newcomb Audio Products Co 6824 Lexington Ave Los Angeles 38 Calif 17	92 Prospect St Thompsonville Conn 23-24

717 N Lake Ave	Thermador Corp	Transmitters, radio range 22
Pasadena 6 Calif 2-9-11-20-23-31	2000 S Camfield Ave 2-3-4-6-7-9 Los Angeles 22 Calif 10-13-25-26-28	Transmitters, railroad 23
Repath Pacific Div Arnold Eng'g Co 641 E 61 St Los Angeles 1 Calif 30	Todd Products Co 1-2-3-4-5-6-7-8-10-11	Transmitters, single sideband. 24
Rich Electronics Inc	156 Gramatan Ave 12-13-14-15-16-17-18	Transmitters, sonar 25
212 NW 8 Ave Miami 36 Fla 1 RK Mfg Co	Mt Vernon NY 19-20-21-22-25-26-27-28 Torwico Electronics Inc	Transmitters, telemetering 26
P O Box 112 2-4-5-6-7-13-15-16	1090 Morris Ave	Transmitters. UHF 27
Marion Ill 17-19-23-26-28	Union NJ 2-4-5-7-9-13-16-25	Transmitters, VHF 28
Rogers Electronic Corp 49 Bleecker St New York 12 NY 8	Transformers Inc 2-3-4-5-6-7-9 200 Stage Rd 10-11-13-15-16-17-18 Vestal NY 19-20-22-23-25-26-27-28 Transformer Technicians Inc 2-3-4-5-6-7-8-9	
Rollan Electric Co	Vestal NY 19-20-22-23-25-26-27-28	Adler Electronics Inc
8233 S Princeton Ave Chicago 20 Ill 24-31	260X N 13cero Ave 10-11-12-13-14-15-16-17	1 LeFevre Lane New Rochelie NY 7-8-11-27-2
Safetee Glass Co 4717 Stenton Ave Philadelphia 44 Pa 30	Chicago 39 III 18-19-20-23-25-26-27-28-29	Advance Industries Inc
Sage Labs Inc	Transonic Inc 2-3-4-5-6-7-9-10-11-12 808 16 St 13-15-16-17-18-19-20 Bakersfield Calif 22-23-25-26-27-28	640 Memorial Dr
30 Guinan St Waltham 54 Mass 14-24 Sangamo Electric Co 2-3-4-5-6-7-9-10-11-15	Bakersfield Calif 22-23-25-26-27-28	Cambridge 39 Mass 20-21-2 Aeronautical Comm Equip Co
Springfield III 16_17_18_19_20_25_26_27	Trenton Transformer Corp	3090 Douglas Rd Miami 33 Fla 2
Saratoga Industries 2-4-6-7-9-10-11-13	P O Box 568 EI 2-3-4-6-7-9 Trenton NJ 10-11-12-13-15-16-18-19	Aeronautical Electronics Inc P O Box 6527 Raleigh NC 4-14-15-19-2:
Congress & Ballston Ave 14-15-17-19-20-21 Saratoga Springs NY 22-23-24-25-28-29-31	Tresco Inc	P O Box 6527 Raleigh NC 4-14-15-19-2: Aircraft Radio Corp
Schrack Electrical Sales Corp	3824 Terrace St	Boonton NJ 27-2
45 W 81 St New York 24 NY	Philadelphia 28 Pa 2-7-10-13-15-23-27 Triad Transformer Corp 2-3-4-5-6-7-8-9-10	Airtron Inc 1101 W Elizabeth Ave Linden NJ 18-2
Servo Corp of America 2020 Jericho Turnpike	4055 Redwood Ave 11-12-13-15-16-17-18-19	Alden Electronic & Impulse Recording
New Hyde Park NY	Venice Calif 20-23-25-26-27-28 Underwood Corp Electronic Computer Div	Equip Co P O Box 125
Servomechanisms Inc 12500 Aviation Blvd	25 10 26 Aug Long Island City 6 NV 92	Westboro Mass 1: Alto Scientific Co
Hawthorne Calif	Union Electric Products Co 24 Edison Pl Newark 2 NY 13-14-15-16-17-18-19-20 21-29-23-25-26-27-28-29	855 Commercial St Palo Alto Calif 2
Sierra Electronic Corn	Newark 2 NY 13-14-15-16-17-18-19-20	Amerac Inc 116 Topsfield Rd Wenham Mass 18-2
3885 Bohannon Dr Menlo Park Calif 11 Sigmadyne of Conn	21-22-20-20-20-20-20	116 Topsfield Rd Wenham Mass 18-2 American Electronics Co
P O Box 869	United Transformer Corp Pacific Div 2-3-4-5-6-7-9-10-11	1203 Bryant Ave New York 59 NY
Port Chester NY 2-3-4-9-23-25-29 Signal Transformer Co 2-3-4-5-6-7-9-10-11	4008 W Jefferson Blvd 12-13-15-16-18-19	American Machine & Foundry Co Defense Products Group 2-12-14-15-1
Signal Transformer Co 2-3-4-5-6-7-9-10-11 902 Coney Island Ave 12-13-15-16-17-18	Los Angeles 16 Calif 22-23-25-26-27-28 United Transformer Corp 2-3-4-5-6-7-9-10	Defense Products Group 2-12-14-15-1 1101 N Royal St Alexandria Va 20-21-22-2
Brooklyn 18 NY 19-20-22-23-26-27-28	150 Varick St 11-12-13-14-15-16-17-18	American Microwave Corp
Skysweeper Inc	New York 13 NY 19-20-23-25-26-27-28-29	11754 Vose St N Hollywood Calif Applied Electronics Co
McHenry III 11 10 10 17 10 10 10	U S Electronics Corp 1-2-3-5-6-7-8-9-10 278 Warren St 11-12-13-15-16-17-18	213 E Grand Ave
DOD 000	Lyndhurst NJ 19-23-24-25-26-27-28-29	S San Francisco Calif 14-15-17-19
USRKOSh Wis 12-15-16-19 10 99	Utah Radio Products Corp 1124 E Franklin St Huntington Ind 2-26	Avia Products Co 7266 Beverly Blvd
Sola Electric Co	Utrad Corp	Los Angeles 36 Calif 5-9-19-27-2
4633 W 16 St Chicago 50 Ill 29 Sorensen & Co Richards Ave	305 N Briant St 6-7-8-9-10-11-12-13 Huntington Ind 15-16-17-20-23-26-28	Babcock Radio Eng'g Inc
NOTWRIK Conn	Valor Electronic Components Co	7942 Woodley Ave Van Nuys Calif 2' Bailey Meter Co
Southwestern Industrial Electronics Co 2831 Post Oak Rd	5808 Marilyn Ave	1050 Ivanhoe Rd Cleveland 10 Ohio 20
Houston 19 Texas 2-3-9-11-20-25-27	Culver City Calif 23-24-25 Vanguard Electronics Co	Barker Sales Co
Specialties Inc	3384 Motor Ave Los Angeles 34 Calif 24	996 Edgewater Ave Ridgefield NJ Barker & Williamson Inc
Skunks Misery Rd Syosset LI NY 2-6-9-23 Sperry Gyroscope Co Div Sperry Rand Corp	Varo Mfg Co	Canal & Beaver Sts
	2201 Walnut St Garland Tex 9-25 Vibration Research Labs	Bristol Pa 3-10-12-14-15-20-24-20
Sprague Electric Co Marshall St North Adams Mass 23	97 Lake Ave Tuckahoe NY 9-18-19-28-29	Bassett Inc Rex 1314 N E 17 Ct Ft Lauderdale Fla 15-1
Standard Electrical Products Co	Virginia Electronics Co River Rd & B & O R R 2-3-4-5-6-7-9-10	Bell Aircraft Corp
2240 E 3 St 2-3-4-5-6-7-9-10-11-12-13	Washington 16 DC 11-13-15-16-17-18	P O Box 1 4-12-15-16-18-19-20 Buffalo 5 NY 21-22-24-25-26-27-20 Bendix A winting Company
Standard Electronics Div Radio Engly Labo	19-20-23-24-25-26-27-28-29-31	Dendix Aviation Corp Bendix Radio Div
Standard Electronics Div Radio Eng'g Labs 30th & Borden Sts 2-3-4-5-6-7-9-10-13-15-16 Long Island City NY Standard Winding Co	Vokar Corp 	East Joppa Rd
Standard Winding Co	Waco Inc	Towson 4 Md 4-12-14-15-19-21-23-26-27-28 Bendix Aviation Corp
44 Johnes St Newburgh NV 0 04 or	2032 Broadway Santa Monica Calif 4-5-6-7-9-10-11-13-16	1104 Fisher Bldg 1-4-12-19-21-29
Sterling Transformer Corp	Waveguide Inc	Detroit 2 Mich 23-25-26-27-28 Bristol Co
DIQUKIYII 11 INY 15_16.17 10 06 07 00	14837 Oxnard St Van Nuys Calif 14	P O Box 1790 EITT
97 City Deal A man and	Waveline Inc Passaic Ave Caldwell NJ 14	Waterbury 20 Conn 20 Brush Electronics Co
87 City Park Ave Toledo 1 Ohio 9-30 Summit Coil Co	Westbury Electronics Inc	3405 Perkins Ave Cleveland 14 Ohio
4 Claremont Rd Bernardsville N.I. 24	300 Shames Dr Westbury NY 1 Western Coil Products Co	Budelman Radio Corp
Summit Electronic Products 14706 Arminta St	969 Commercial St Palo Alto Calif 24-26	375 Fairfield Ave Stamford Conn 14-15-18-27-29
Van Nuys Calif 7-0-11-15 20 05	Westinghouse Electric Corp	Calif Technical Industries
Superior Electric Co  83 Laurel St Bristol Conn 4-9-29	P O Box 868 2-3-4-5-6-7-9-10-11 Pittsburgh 30 Pa 12-13-15-16-19-23-25	1421 Old County Rd Belmont 10 Calif 18
Taylor Fibre Co	Weston Electrical Instrument Corp	Canadian Aviation Electronics Ltd 6214 Cote de Liesse Rd
Norristown Pa Technicraft Labs Inc	Sub Daystrom Inc 614 Frelinghuysen Ave	St Laurent Quebec Canada
Thomaston-Waterbury Rd	Wheeler Insulated Wire Co	Canoga Corp 5955 Sepulveda Blvd
Thomaston Conn	150 E Aurora St 2-3-7-9-10-11-12	Van Nuvs Calif
Technitrol Eng'g Co 1952 E Allegheny Ave Philadelphia 34 Pa 23	Waterbury 20 Conn 13-16-17-23-25-26-28	Central Electronics Inc
Tele-Coll Co	95—TRANSMITTERS	1247 W Belmont Ave Chicago 113 III 3-4-14-15-24
2733 Saunders St Camden 5 NJ 24 Telectro Industries Corp	Padiacandos	CG Electronics Corp
35-18 37 St	Radiosondes	305 Dallas St N E Albuquerque New Mex 26
Long Island City 1 NV 1-2-3-9-10-15 10	Transmission monitoring equip-	Chattin Eng'g Associates 1401 Middle Harbor Rd Oakland 20 Calif 24
Telectron Co Div Eiliot & Evans Bldg 9 Broward International Airport	ment	Clegg Labs Div Clegg Inc
rt Lauderdale Fla	Transmitters, aviation 4	Ridgedale Ave
Teleradio Eng'g Corp	Transmitters, broadcast AM 5	Morristown NJ 1-3-14-15-24-27-28 Collins Radio Co
Shannon & Barrett Sts Wilkes-Barre Pa	Transmitters, broadcast FM 6	855 35 St 3-4-5-14-15-17
Telex	Transmitters, broadcast UHF-TV 7	N E Cedar Rapids Iowa 18-24-27-28 Comac Instrument Co
1633 Eustis St	Transmitters, broadcast VHF-TV 8	66-11 99 St Forest Hills 74 NY
St Paul 1 Minn 23-25-26 Telkor Inc	Transmitters, citizens radio 9	Communications Co
N Murray Ridge Rd Elyria Ohio	Transmitters, code 10	Coral Gables Fla 14-15-19-28 Consolidated Productions Inc
Tel-Rad Electronics Corp	Transmitters, color TV	Broward Int'l Airport
73-20 Trotting Course Lane Glendale LI 27 NY	Transmitters, direction finding 12	Ft Lauderdale Fla 14-19-27
Tempel Mfg Co	Transmitters, facsimile 13	Continental Electronics Mfg Co 4212 S Buckner Blyd
1939 Bryn Mawr Ave Chicago 26 Ill 30	Transmitters, fixed frequency 14	Dallas 27 Texas 5-7-10-14-15-18-24-27-28
Tensor Electric Development Co 1873 Eastern Pkwy 1-2-3-4-5-6-7-9-10-12	Transmitters, fixed station comm. 15	Corbin Corp
Brooklyn 33 NY 13-15-16-17-18-19-20	Transmitters, Ioran 16	5419 56 Pl Riverdale Md 13-24 Cossor (Canada) Ltd
21-22-23-24-26-27-28-29 Texas Instruments Inc	Transmitters, marine 17	301 Windsor St
6000 Lemmon Ave	Transmitters, microwave 18	Halifax Nova Scotia Canada 28
Dallas 9 Tex 2-3-6-9-11-18-19-23-26-27	Transmitters, mobile	Crosby Labs Inc Box 233 Robbins Lane Hicksville NY 24
Thomas & Skinner Inc	Transmitters, pulse time	Dayton Aviation Radio & Equipment Corp
1120 E 23 St Indianapolis 7 Ind 30	modulation 20	R R 3 Troy Ohio 4-21

		Scantlin Electronics Inc.
Deltime Inc	Lysco Mfg Co 1401 Clinton St Hoboken NJ 3-9-14-15-17-19	11624 W Pico Blvd
608 Fayette Ave Mamaroneck NY 18-20	Mackay Radio & Telegraph Co	Los Angeles 04 Call
DeMornay-Bonardi Corp	Marine Div 133 Terminal Ave	Seismograph Service Corp 6200 E 41 St Tulsa WOkla 22
780 S Arroyo Pkwy Pasadena Calif Dollar Co Robert Communications Equip	Clark NJ 12-16-17-28	Ciamp Vlastronia Corn
Div 50 Drumm St	Mack Electronics Div Inc Sub Mack Trucks Inc 1120 S 2 St	2005 Robennon Dr Menio Park Calli 10
San Francisco 11 Calif 15	Plainfield NJ 4-27	Skiatron Electronics & IV Corp
Edo Corp	Manson Laboratories Inc	180 Varick St New York 14 NY 12-13-20-21
13-10 111 St College Point 56 LI NY 25 Electronic Measurements Co	207 Greenwich Ave Stamford Conn 27	games Padio Corn
Lewis St & Maple Ave Eatontown NJ 13	Maryland Electronic Mfg Corp 5009 Calvert Rd	2050 W 21 St Brooklyn 24 N I
Electronics Development Co	College Park Md 14-22-28	Sorenson Industrial Electronic Co
3743 N Cahuenga Blvd	Maxson Corp W L	R #10 Dover No
N Hollywood Calif 7-8-26-27-28	475 10 Ave New York 18 NY 21	
Endeco Eng'g Development Co of Los Angeles 922 E Anaheim St	Measurement Eng'g Ltd 232 John St Arnprior Ontario Can 14-15-17	Standard Electronics Div Radio English
Wilmington Calif	Michigan Electronics Inc	20th & Rorden Sts
Erco Radio Labs Inc	854 N Rockwell St Chicago 22 Ill 14	Long Island City
637 Stewart Ave	Millen Mfg Co James	Stavid Eng'g Inc U S Route 22 Plainfield NJ 18-21-26
Garden City NY 4-12-14-15-17-19-24-27-28	150 Exchange St Malden 48 Mass 3	
Fairchild Guided Missiles Div Fairchild Engine & Airplane Corp	Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn 25	1300 N Kostner Ave
Straight Path Wyandanch Ll NY 21	Mitchell Industries Inc	
Federal Telephone & Radio Co Div IT&T	P O Box 17 F M 1195 Municipal	Cricago 31 II Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd
100 Kingsland Rd 4-12-14-15-16-18	Airport Mineral Wells Texas 4-28 Model Eng'g & Mfg Inc	Rochester 3 N I
Clifton NJ 20-21-22-23-24-27-28	50 Frederick St	m m + D-dia & TV Co
Foto-Video Labs Inc 25 Amity St Little Falls NJ 11	Huntington Ind 1-4-12-14-15-19-27-28	27-05 Brooklyn-Queens Expressway "
Fries Instrument Div Bendix	Morrow Radio Mfg Co	Woodside 17 Ni
Aviation Corp 1400 Taylor Ave	2794 Market St Salem Ore 3-4-14-15-19 Mosler Research Products Inc	Taller & Cooper 75 Front St Brooklyn 1 NY 26
Baltimore 4 Md	3 Keeler St Danbury Conn 19	Tarzian Inc Sarkes
Gates Radio Co 123 Hampshire St Quincy III 2-5-6-8	Motorola Communications & Electronics Inc	E Hillside Drive
General Communication Co	4501 W Augusta Blvd 9-14-15-18 Chicago 51 III 19-23-27-28	Bloomington Ind
677 Beacon St Boston 15 Mass 18-21-26	Chicago 51 Ill 19-23-27-28 Muirhead & Co Ltd	Telechrome Mfg Corp 28 Ranick Dr
G & M Equipment Co	Beckenham Kent England 13	Amityville LI NY 2-8-11-20-24-26-21-26
7315 Varna Ave N Hollywood Calif 17	Muirhead Instruments Inc	Tele Communications Inc
Gray Radio Co 501 Forest Hill Blvd W Palm Beach Fla 17	677 5 Ave New York 22 NY 13 Multi-Products Co	41 E 42 St New York NY
Grem Eng'g Co	21470 Coolidge Hwy	Telecommunications Ltd Newmarket Rd Cambridge England 4
488 1 St Brooklyn 15 NY 18-21	Oak Park 37 Mich 3-19-28	
Gyro Electronics Co 325 Canal St New York 13 NY 9-14	National Aeronautical Corp	Ridg 9 Broward International Amport
325 Canal St New York 13 NY 9-14 Hallicrafters Co	Ft Washington Industrial Park Ft Washington Pa 4	Ft Lauderdale Fla
4401 W 5 Ave Chicago 24 Ill 3-4-18-21-26	Nevada Air Products Co	Tele-Dynamics Inc 32 & Walnut Sts Philadelphia 4 Pa 18-26
Harristahl Laboratories	P O Box 2472 Reno Nev 4-18-20-21-26-27	Telemenine Communications Co
474 E 2 St Brooklyn 18 NY 3-9-11-24 Harvey-Wells Electronics Inc	Northern Radio Co 143 W 22 St New York 11 NY 26	3040 W 21 St Brooklyn 24 NY 4-14-15-17-15
North St Southbridge Mass 3-9-16	Nuclear-Electronics Corp	Telemetering Associates
Heath Co	2632 W Cumberland St	6419 Indigo St Houston Texas 26-28 Telephonics Corp
305 Territorial Rd Benton Harbor Mich 3	Philadelphia 32 Pa 14-15-17 Otis Elevator Co Electronic Div	Park Ave Huntington LI NY 18-21-27-28
Hogan Labs Inc 155 Perry St New York 14 NY 13	35 Ryerson St Brooklyn 5 NY 21-24	Texas Instruments Inc
Hoover Electronics Co	Palmer Inc M V	6000 Lemmon Ave Dallas 9 Texas 21-25 Times Facsimile Corp
3640 Woodland Ave Baltimore 7 Md 1-26	4002 Fruit Valley Rd Vancouver Wash 24 Parsons Co Ralph M Electronics Div	540 W 58 St New York 19 NY 13
Hudson American Div 25 W 43 St New York 36 NY 17	151 S De Lacey Ave Pasadena Calif 26	Tonn Industries Inc
Industrial Radio Corp	Pearce Simpson Inc	5255 W 102 St Los Aligeres 10 Carr
428 N Parkside Ave	3023 Coral Way Miami 34 Fla 17 Perma-Power Co	Transitron Inc 186 Granite St Manchester NH 3-15-19
Chicago 44 Ill 2-19-23-28	3102 N Elston Ave Chicago 18 Ill 9	TV Hilities Corn
Intelex Systems Inc 22 Thames St New York 6 NY 15-18-20-24	Philco Corp Govt & Industrial Div	112-33 Colonial Ave Corona 68 NY 2
International Research Associates	4700 Wissahickon Ave Philadelphia 44 Pa 18 Philmore Mfg Co	United Electrodynamics 1200 S Marengo Ave Pasadena Calif 26
2221 Warwick Ave Santa Monica Calif 8-28	113 University Pl New York 3 NY 9-10	Univave Inc
Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds	Planet Service Corp	2 Marine St Farmingdale NY 21-20
Baltimore 28 Md 26	88-02 88-06 102 St Richmond Hill 18 NY 17	Vanor Recovery Systems CO
Inland Electronics Corp	Pratt Albert 114 W Lake View Ave	2820 N Alameda St Compton Calif 26 Varo Mfg Co
500 Rathbone Ave Aurora III 14	Milwaukee 17 Wis 14-19-28	2201 Walnut St Garland Texas 28
I-T-E Circuit Breaker Co Special Products Div 601 E Erie Ave	Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass 13-15	Wietory Engly Corp
Philadelphia 34 Pa. 18	Production Research Corp 4-14-15-18	III Springheid Rd Chion 110
Jarvis Electronics Corp	Thornwood NY 19-20-21-26-28	Virginia Electronics Co River Rd & B & O R R
1140 Cherry St Winnetka Ill 4	Pye Canada Ltd	Washington 16 DC 14-15-17
Jerrold Electronics Corp 23 & Chestnut Sts Philadelphia 3 Pa 28	82 Northline Rd 7-8-11-15 Toronto 16 Ontario Canada 19-25-27-28	Voron & Co George
Johnson Aircraft Eng'g Co M J	Pye Corp of America	835 N 19 St Dhiladalphia 30 Pa 5-15-26-27-28
Morristown Airport Box 10	1149 Raritan Ave 14-15-17	Philadelphia 30 Pa 5-15-26-27-28 Waldorf Instrument Co Div F C Huyck
Morristown NJ 26	Highland Park NJ 19-28	& Sons Park Ave
Johnson Co E F Waseca Minn 19-24	Pye Telecommunications Ltd Newmarket Rd 4-12-14-15-17-18	Huntington Station NY
J-V-M Eng'g Co	Cambridge England 19-20-22-23-28	Waveline Inc
4633 S Lawndale Ave Lyons Ill 18	Radiation Inc	Passaic Ave Caldwell NJ 18 Wells-Gardner & Co
Kaar Eng'g Corp	P O Box 37 Melbourne Fla 26	2701 N Kildare Ave Chicago 39 III 21-22
2995 Middlefield Rd	Radio Corp of America Commercial Electronic Products 5-6-7-8-10	Westinghouse Electric Corp
Palo Alto Calif 2-9-14-15-17-19-27-28 Kahn Research Labs	Camden 2 NJ 11-15-17-18-19-24	P O Box 868
22 Pine St Freeport NY 5-24	Radio Eng'g Labs	Pittsburgh 30 Pa 15-17-18-21-24-27-28
Kay Electric Co	36-40 37 St Long Island City 1 NY 15-18-27-28	Westrex Corp 111 8 Ave New York 11 NY 15-24
14 Maple Ave Pine Brook NJ 7-8-11	Radio Frequency Labs Inc	Williams Ship-Radio Co
Laboratory For Electronics Inc 75 Pitts St Boston 14 Mass 21	Boonton NJ 26	4366 Mentone St San Diego 7 Calif 17
Lambda-Pacific Eng'g Inc	Radio Kits Inc 120 Cedar St New York 6 NY 5	WRL Electronics Inc 3415 W Broadway Council Bluffs Iowa 3
14725 Arminta St Van Nuys Calif 18	Raytheon Mfg Co	1910 W Dioniway Council Diameter
Lane Electronics Mfg Corp 7254 Atoll Ave N Hollywood Calif 4	100 River St Waltham 54 Mass 17-18-21	96—TRANSMITTER
Lavoie Labs Inc	Reeves Instrument Corp 215 E 91 St New York 28 NY 18-21-24	ACCESSORIES
Matawan-Freehold Rd Morganville NJ 21	Resdel Eng'g Corp	_
Lear Inc 3171 S Bundy Drive	330 S Fair Oaks Ave Pasadena Calif 18-27-28	Blowers
Santa Monica Calif 4-14-28	Rhein Sound Systems Inc 133 Hamilton St	Coneirad alarms 2
Lettine Radio Mfg Co	New Haven 5 Conn 4-10-14-15-24	Control consoles 3
62 Berkley St Valley Stream NY 3-14-15-28	Rich Electronics Inc	Couplers 4
Levinthal Electronic Products Inc 3180 Hanover St Palo Alto Calif 18-21-24-27	212 NW 8 Ave Miami 36 Fla 26	Diplexers 5
Link-Radio Corp	Rixon Electronics Inc 2414 Reedie Dr Silver Spring Md 2-14-15	Keyers 6
110 Jericho Turnpike 9-14-15-17-19	Royal Communication Systems	Keys 7
New Hyde Park LI NY 24-27-28	11462 Euclid Ave 3-9-14-15-19 Cleveland 6 Ohio 27-28	Power supplies 8
Litton Industries of Calif 336 N Foothill Rd 4-12-16-20	Cleveland 6 Ohio 27-28 Sanders Associates	Adler Electronics Inc
Beverly Hills Calif 21-25-26	95 Canal St Nashua NH 18-21	1 LeFevre Lane New Rochelle NY 3-4
Lynmar Engineers Inc 1432 N Carlisle St Philadelphia 21 Pa 3-14	Sangamo Electric Co Springfield Ill 25	Air-Marine Motors Inc 369 Bayview Ave Amityville NY

Air Transport Mfg Co		Lambda Electronics Corp	Tubes, klystron 16
1114 N Sycamore Ave Los Angeles 38 Calif		11-11 131 St College Point 56 NY 8	Tubes, magnetron 17
Airtron Inc	3	Levinthal Electronic Products Inc 3180 Hanover St Palo Alto Calif 8	Tubes, miniature 18
1101 W Elizabeth Ave Linden NJ	5	Lysco Mfg Co 1401 Clinton St Hoboken NJ 8	Tubes, noise
Alden Products Co 123A N Main St Brockton Mass	7	Mack Electronics Div Inc Sub Mack Trucks Inc 1120 S 2 St Plainfield NJ 8	Tubes, photo 20
Alford Mfg Co	•	Measurement Eng'g Ltd	Tubes, priani 21
299 Atlantic Ave Boston 10 Mass Alto Scientific Co	5	232 John St Arnprior Ontario Can 3	Tubes, power amplifier 22
855 Commercial St Palo Alto Calif	8	Mercury Electronic Co Box 450 B Red Bank NJ 8	Tubes, projection 23
Ameo Engrg Co		Michigan Electronics inc	Tubes, receiving 24
7333 W Ainslie St Chicago 31 Ill American Electronics Co	3	854 N Rockwell St Chicago 22 Ill 2	Tubes, rectifying, industrial 25
1203 Bryant Ave New York 59 NY	2-4	Mil Case Corp 35-18 37 St Long Island City NY 3	Tubes, rectifying, receiving 26
Amtron Corp 17 Felton St Waltham 54 Mass		Mobil Electronics Mfg Co	Tubes, rectifying, transmitting 27
Andrew Antenna Corp	1	1111 State Rd 67 E Anderson Ind 2 Multi-Products Co	Tubes, scintillation 28
606 Beach St Whitby Ontario Can	5	21470 Coolidge Hwy Oak Park 37 Mich 2-8	Tubes, sparkgap 29
Andrew California Corp 941 E Marylind Ave Claremont Calif	5	Nems-Clarke Inc	Tubes, special purpose 30
Darker & Williamson Inc	U	919 Jesup-Blair Dr Silver Spring Md Otis Elevator Co Electronic Div	Tubes, strobe 31
Canal & Beaver Sts Bristol Pa Bell Aircraft Corp	4-6	35 Ryerson St Brooklyn 5 NY 6-8	Tubes, subminiature
P O Box 1 Buffalo 5 NY	3-8	Pampa Electronics Corp	Tubes, switching
Bendix Aviation Corp Pacific Div		7354 Frankford Ave Philadelphia 36 Pa 2 Peer Inc	Tubes, thyratron
11600 Sherman Way N Hollywood Calif Bendix Aviation Corp Bendix Radio Div	5	1200 Milton St Benton Harbor Mich 3	Tubes, TR
East Joppa Rd Towson 4 Md	8	Peerless Electric Co	Tubes, transmitting-receiving 37
Boehme Inc H O 915 Broadway New York 10 NY	0.5	1401 W Market St Warren Ohio 1 Power Supplies Inc	Tubes, transmitting 38
Bolton Labs Inc	6-7	1005 Olive St Highland Ill 8	Tubes, traveling wave 39
W Main St Bolton Mass	2-5	Premier Instrument Corp	Tubes, TV camera iconoscopes 40
Brooks & Perkins Inc 1950 W Fort St Detroit 16 Mich	3	52 W Houston St New York 12 NY 5 Press Wireless Labs Inc	Tubes, TV camera image
Buss-Clement-Doughten & Associates	o	25 Prospect Pl W Newton 65 Mass 6-8	orthicons 41
201 B Studio Hill Chester Springs Pa Canadian Aviation Electronics Ltd	3	Production Research Corp	Tubes, TV picture 42
6214 Cote de Liesse Rd St Laurent		Thornwood NY 6 Pye Telecommunications Ltd	Tubes, TV picture, rebuilt 43
Quebec Canada	4-6	Newmarket Rd Cambridge England 3-4-6	Tubes, ultra violet 44
CG Electronics Corp 305 Dallas St NE		Radiation Inc	Tubes, voltage regulators 45
Albuquerque New Mex		PO Box 37 Melbourne Fla 4 Radio Corp of America	Tubes, X-ray 46
CGS Laboratories Inc 391 Ludlow St Stamford Conn		Commercial Electronic Products	
Clegg Labs Div Clegg Inc	4	Camden 2 NJ 3 Regency Div Idea Inc	Accurate Eng'g Co 2005 Blue Island Ave Chicago 8 Ill 4-25
Ridgedale Ave Morristown NJ	8	7900 Pendleton Pike Indianapolis 26 Ind 2	Aerolux Light Corp
Collins Radio Co 855 35 St N E Cedar Rapids Jowa	8	Ripley Co	653 11 Ave 4-8-11-12-13-
Continental Electronics Mfg Co	o	1 Factory St Middletown Conn 1 Rotating Components Inc	New York 36 NY 15-30-31-44-45 Allen Electronics Corp
4212 S Buckner Blvd Dallas 27 Texas Craig Systems Inc	8	267 Green St Brooklyn 22 NY 1	92 Branch St Pontiac Mich 5
90 Holten St Danvers Mass	3	Rotron Mfg Co	Allyn Inc Welch Skaneteles Falls NY 12
Defiance Eng'g & Microwave Corp		Schoonmaker Lane Woodstock NY 1 Sage Labs Inc	Welch Skaneteles Falls NY 12 American Elite Inc
Beverly Airport Beverly Mass Diamond Antenna & Microwave Corp	4-5	30 Guinan St Waltham 54 Mass 5	7 Park Ave New York 16 NY 22-24-26-32
7 North Ave Wakefield Mass	5	Smith-Meeker Eng'g Co	American Lava Corp Subs Minn Mining & Mfg Cherokee Blvd & Mfrs Rd
Diatron Co 3327 Dixie Dr Houston 21 Texas	2	157 Chambers St New York 7 NY 3 Spivey Inc James S	Chattanooga 5 Tenn 6
Dressen-Barnes Corp	4	4908 Hampden Lane Washington 14 DC 6	Amglo Corp
250 N Vinedo Ave Pasadena Calif	8	Standard Electronics Div Radio Eng'g Labs	4333 Ravenswood Ave Chicago 13 Ill 11-13-20-30-31-44
Dudek & Co R C 407 N Maple Dr Beverly Hills Calif	1	30th & Borden Sts Long Island City NY 5-8 Stewart Warner Electronics Div	Amperex Electronic Corp 8-10-11-12-14-16-17-
Duniap Liectronics		1300 N Kostner Ave Chicago 51 Ill 8	230 Duffy Ave 18-24-25-26-27-30-
764 9 St Des Moines 14 Iowa Dynamic Air Eng'g Inc	2	Technicraft Labs Inc Thomaston-Waterbury Rd	Hicksville LI NY 32-34-37-38-45-46 Amperite Co
7412 Maie Ave Los Angeles 1 Calif	1	Thomaston Conn 5	561 Broadway New York 12 NY 3
Eicor Inc 4235 W North Ave Chicago 39 Ill		Telechrome Mfg Corp	Anton Electronic Labs
Electric Trading Co	8	28 Ranick Dr Amityville LI NY 5-8 Telectro Industries Corp	1226 Flushing Ave Brooklyn 6 NY 10-12-45 Baird-Atomic Inc
313 Canal St New York 13 NY	1	35-18 37 St Long Island City 1 NY 6-8	33 University Rd
Electronic Specialty Co 5121 San Fernando Rd		Tel-Instrument Electronics Corp	Cambridge 38 Mass 8-10-12-13
Los Angeles 39 Calif	4-5	728 Garden St Carlstadt NJ 5	Barker Sales Co
Electronics Development Co		Tonatron Inc	996 Edgewater Ave Ridgefield NJ 5
		Topatron Inc 942 E Ojai Ave Ojai Calif 3	Bendix Aviation Corp
3743 N Cahuenga Blvd N Hollywood Calif	5	942 E Ojai Ave Ojai Calif 3 Transonic Inc	Bendix Aviation Corp 1104 Fisher Bldg
N Hollywood Calif Erco Radio Labs Inc	5	942 E Ojai Ave Ojai Calif Transonic Inc 808 16 St Bakersfield Calif	Bendix Aviation Corp
N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY	5 3	942 E Ojai Ave Ojai Calif Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY 8	Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich 1-16-18-19-29-30-35 Bendix Aviation Corp Red Bank Div 11-16-18-19-22-24-
N Hollywood Calif Erco Radio Lubs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ		942 E Ojai Ave Ojai Calif Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY US Dynamics Corp	Bendix Aviation Corp   1104 Fisher Bldg   Detroit 2 Mich   1-16-18-19-29-30-35   Bendix Aviation Corp   Red Bank Div   11-16-18-19-22-24   Eatontown NJ   26-29-30-32-34-45
N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co	3 7	942 E Ojai Ave Ojai Calif Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY 8	Bendix Aviation Corp   1104 Fisher Bldg   Detroit 2 Mich
N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co 123 Hampshire St Quincy Ill General Bronze Corp	3	942 E Ojai Ave Ojai Calif Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY US Dynamics Corp 1250 Columbus Ave Boston 20 Mass Virginia Electronics Co River Rd & B & O RR	Bendix Aviation Corp
N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co 123 Hampshire St Quincy Ill General Bronze Corp 711 Stewart Ave Garden City NY	3 7	942 E Ojai Ave Ojai Calif Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY US Dynamics Corp 1250 Columbus Ave Boston 20 Mass Virginia Electronics Co River Rd & B & O RR Washington 16 DC 3-6	Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich 1-16-18-19-29-30-35 Bendix Aviation Corp Red Bank Div 11-16-18-19-22-24- Eatontown NJ 26-29-30-32-34-45 Black Light Corp of America 5114 Walnut Grove Ave San Gabriel Calif Black Light Eastern Corp
N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co 123 Hampshire St Quincy Ill General Bronze Corp 711 Stewart Ave Garden City NY Guild Electronics Inc	3 7 3-4-8 3-5	942 E Ojai Ave Ojai Calif Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY US Dynamics Corp 1250 Columbus Ave Boston 20 Mass Virginia Electronics Co River Rd & B & O RR Washington 16 DC 3-6 Warren Mfg Co Newtown Rd Littleton Mass 6	Bendix Aviation Corp
N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co 123 Hampshire St Quincy Ill General Bronze Corp 711 Stewart Ave Garden City NY Guild Electronics Inc 388 Broadway New York 13 NY Hallicrafters Co	3 7 3-4-8	942 E Ojai Ave Ojai Calif Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY US Dynamics Corp 1250 Columbus Ave Boston 20 Mass Virginia Electronics Co River Rd & B & O RR Washington 16 DC Warren Mfg Co Newtown Rd Littleton Mass Waveline Inc	Bendix Aviation Corp   1104 Fisher Bldg   Detroit 2 Mich
N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co 123 Hampshire St Quincy III General Bronze Corp 711 Stewart Ave Garden City NY Guild Electronics Inc 388 Broadway New York 13 NY Hallicrafters Co 4401 W 5 Ave Chicago 24 III	3 7 3-4-8 3-5	942 E Ojai Ave Ojai Calif Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY US Dynamics Corp 1250 Columbus Ave Boston 20 Mass Virginia Electronics Co River Rd & B & O RR Washington 16 DC 3-6 Warren Mfg Co Newtown Rd Littleton Mass Waveline Inc Passaic Ave Caldwell NJ 6	Bendix Aviation Corp
N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co 123 Hampshire St Quincy Ill General Bronze Corp 711 Stewart Ave Garden City NY Guild Electronics Inc 388 Broadway New York 13 NY Hallicrafters Co 4401 W 5 Ave Chicago 24 Ill Harvey-Wells Electronics Inc	3 7 3-4-8 3-5 8 5	942 E Ojai Ave Ojai Calif Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY US Dynamics Corp 1250 Columbus Ave Boston 20 Mass Virginia Electronics Co River Rd & B & O RR Washington 16 DC 3-6 Warren Mfg Co Newtown Rd Littleton Mass Waveline Inc Passaic Ave Caldwell NJ Wickes Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ	Bendix Aviation Corp   1104 Fisher Bldg   Detroit 2 Mich   1-16-18-19-29-30-35   Bendix Aviation Corp   Red Bank Div   11-16-18-19-22-24   Eatontown NJ   26-29-30-32-34-45   Black Light Corp of America   5114 Walnut Grove Ave San Gabriel Calif   44   Black Light Eastern Corp   33-00 Northern Blvd Long Island City 1 NY   44   Long Island City 1 NY   45   Boyne Electric Mfg Co   Lowa Ave Paterson 3 NJ   4   Bomac Labs Inc   Salem Rd   1-2-16-17-29-30-31-
N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co 123 Hampshire St Quincy Ill General Bronze Corp 711 Stewart Ave Garden City NY Guild Electronics Inc 388 Broadway New York 13 NY Hallicrafters Co 4401 W 5 Ave Chicago 24 Ill Harvey-Wells Electronics Inc North St Southbridge Mass Heath Co	3 7 3-4-8 3-5 8	942 E Ojai Ave Ojai Calif Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY US Dynamics Corp 1250 Columbus Ave Boston 20 Mass Virginia Electronics Co River Rd & B & O RR Washington 16 DC 3-6 Warren Mfg Co Newtown Rd Littleton Mass Waveline Inc Passaic Ave Caldwell NJ Wickes Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ Wincharger Corp E	Bendix Aviation Corp
N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co 123 Hampshire St Quincy Ill General Bronze Corp 711 Stewart Ave Garden City NY Guild Electronics Inc 388 Broadway New York 13 NY Hallicrafters Co 4401 W 5 Ave Chicago 24 Ill Harvey-Wells Electronics Inc North St Southbridge Mass Heath Co 305 Territorial Rd Benton Harbor Mich	3 7 3-4-8 3-5 8 5	942 E Ojai Ave Ojai Calif Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY US Dynamics Corp 1250 Columbus Ave Boston 20 Mass Virginia Electronics Co River Rd & B & O RR Washington 16 DC 3-6 Warren Mfg Co Newtown Rd Littleton Mass Waveline Inc Passaic Ave Caldwell NJ Wickes Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ	Bendix Aviation Corp   1104 Fisher Bldg   Detroit 2 Mich
N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co 123 Hampshire St Quincy Ill General Bronze Corp 711 Stewart Ave Garden City NY Guild Electronics Inc 388 Broadway New York 13 NY Hallicrafters Co 4401 W 5 Ave Chicago 24 Ill Harvey-Wells Electronics Inc North St Southbridge Mass Heath Co 305 Territorial Rd Benton Harbor Mich Highland Eng'g Co	3 7 3-4-8 3-5 8 5 6-8	942 E Ojai Ave Ojai Calif Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY US Dynamics Corp 1250 Columbus Ave Boston 20 Mass Virginia Electronics Co River Rd & B & O RR Washington 16 DC 3-6 Warren Mfg Co Newtown Rd Littleton Mass Waveline Inc Passaic Ave Caldwell NJ Wickes Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ Wincharger Corp E 7 & Division St Sioux City 2 Iowa	Bendix Aviation Corp
N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co 123 Hampshire St Quincy Ill General Bronze Corp 711 Stewart Ave Garden City NY Guild Electronics Inc 388 Broadway New York 13 NY Hallicrafters Co 4401 W 5 Ave Chicago 24 Ill Harvey-Wells Electronics Inc North St Southbridge Mass Heath Co 305 Territorial Rd Benton Harbor Mich Highland Eng'g Co 90 Magnolia St Westbury NY Homelite Div Textron Inc	3 7 7 3-4-8 3-5 8 5 6-8 2 8	942 E Ojai Ave Ojai Calif Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY US Dynamics Corp 1250 Columbus Ave Boston 20 Mass Virginia Electronics Co River Rd & B & O RR Washington 16 DC 3-6 Warren Mfg Co Newtown Rd Littleton Mass Waveline Inc Passaic Ave Caldwell NJ Wickes Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ Wincharger Corp E	Bendix Aviation Corp   1104 Fisher Bldg   Detroit 2 Mich   1-16-18-19-29-30-35   Bendix Aviation Corp   Red Bank Div   11-16-18-19-22-24   Eatontown NJ   26-29-30-32-34-45   Black Light Corp of America   5114 Walnut Grove Ave San Gabriel Calif   44   Black Light Eastern Corp   33-00 Northern Blvd   Long Island City 1 NY   44   Long Island City 1 NY   47   Bogue Electric Mfg Co   Iowa Ave Paterson 3 NJ   4   Bomac Labs Inc   Salem Rd   1-2-16-17-29-30-31   Beverly Mass   33-34-35-37-39   Bristol Co   PO Box 1790 EITT   Waterbury 20 Conn   6   Burroughs Corp   6   Bristol Co   Burroughs Corp   1-16-18-19-29-30-35   1   16-18-19-29-30-32-34-45   16-18-19-29-30-31   16-18-19-29-3
N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co 123 Hampshire St Quincy III General Bronze Corp 711 Stewart Ave Garden City NY Guild Electronics Inc 388 Broadway New York 13 NY Hallicrafters Co 4401 W 5 Ave Chicago 24 III Harvey-Wells Electronics Inc North St Southbridge Mass Heath Co 305 Territorial Rd Benton Harbor Mich Highland Eng's Co 90 Magnolia St Westbury NY Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY	3 7 3-4-8 3-5 8 5 6-8	942 E Ojai Ave Ojai Calif Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY US Dynamics Corp 1250 Columbus Ave Boston 20 Mass Virginia Electronics Co River Rd & B & O RR Washington 16 DC 3-6 Warren Mfg Co Newtown Rd Littleton Mass Waveline Inc Passaic Ave Caldwell NJ Wickes Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ Wincharger Corp E 7 & Division St Sioux City 2 Iowa  97—TUBES	Bendix Aviation Corp
N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co 123 Hampshire St Quincy Ill General Bronze Corp 711 Stewart Ave Garden City NY Guild Electronics Inc 388 Broadway New York 13 NY Hallicrafters Co 4401 W 5 Ave Chicago 24 Ill Harvey-Wells Electronics Inc North St Southbridge Mass Heath Co 305 Territorial Rd Benton Harbor Mich Highland Eng'g Co 90 Magnolia St Westbury NY Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Development Eng'g Assoc	3 7 7 3-4-8 3-5 8 5 6-8 2 8	942 E Ojai Ave Ojai Calif Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY US Dynamics Corp 1250 Columbus Ave Boston 20 Mass Virginia Electronics Co River Rd & B & O RR Washington 16 DC 3-6 Warren Mfg Co Newtown Rd Littleton Mass Waveline Inc Passaic Ave Caldwell NJ Wickes Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ Wincharger Corp E 7 & Division St Sioux City 2 Iowa  97—TUBES Tubes, ATR	Bendix Aviation Corp   1104 Fisher Bldg   Detroit 2 Mich   1-16-18-19-29-30-35   Bendix Aviation Corp   Red Bank Div   11-16-18-19-22-24   Eatontown NJ   26-29-30-32-34-45   Black Light Corp of America   5114 Walnut Grove Ave San Gabriel Calif   44   Black Light Eastern Corp   33-00 Northern Blvd   Long Island City 1 NY   44   Long Island City 1 NY   49   Bogue Electric Mfg Co   Lowa Ave Paterson 3 NJ   4   Bomac Labs Inc   Salem Rd   1-2-16-17-29-30-31   Beverly Mass   33-34-35-37-39   Bristol Co   PO Box 1790 EITT   Waterbury 20 Conn   6   Burroughs Corp   6071 2 Ave Detroit 32 Mich   17   Burroughs Corp   6071 2 Palinfield NJ   8-30   Policy   10-16-17-18   Policy   Policy   Policy   Policy   Policy   17   Policy   Policy   18-30   Policy   Policy   Policy   19   Policy
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N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co 123 Hampshire St Quincy Ill General Bronze Corp 711 Stewart Ave Garden City NY Guild Electronics Inc 388 Broadway New York 13 NY Hallicrafters Co 4401 W 5 Ave Chicago 24 Ill Harvey-Wells Electronics Inc North St Southbridge Mass Heath Co 305 Territorial Rd Benton Harbor Mich Highland Eng'g Co 90 Magnolia St Westbury NY Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind Jamae Products Co	3 7 7 3-4-8 3-5 8 5 6-8 2 8 8 2	942 E Ojai Ave Ojai Calif Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY US Dynamics Corp 1250 Columbus Ave Boston 20 Mass Virginia Electronics Co River Rd & B & O RR Washington 16 DC 3-6 Warren Mfg Co Newtown Rd Littleton Mass Waveline Inc Passaic Ave Caldwell NJ Wickes Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ Wincharger Corp E 7 & Division St Sioux City 2 Iowa  97—TUBES Tubes, ATR 1 Tubes, backward wave 2 Tubes, ballast 3	Bendix Aviation Corp   1104 Fisher Bldg
N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co 123 Hampshire St Quincy Ill General Bronze Corp 711 Stewart Ave Garden City NY Guild Electronics Inc 388 Broadway New York 13 NY Hallicrafters Co 4401 W 5 Ave Chicago 24 Ill Harvey-Wells Electronics Inc North St Southbridge Mass Heath Co 305 Territorial Rd Benton Harbor Mich Highland Eng'g Co 90 Magnolia St Westbury NY Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind JaMac Products Co 8845 N E Sandy Blvd Portland 20 Ore	3 7 7 3-4-8 3-5 8 5 6-8 2 8 8 2 5	942 E Ojai Ave Ojai Calif Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY US Dynamics Corp 1250 Columbus Ave Boston 20 Mass Virginia Electronics Co River Rd & B & O RR Washington 16 DC Warren Mfg Co Newtown Rd Littleton Mass 6 Newtown Rd Littleton Mass 6 Waveline Inc Passaic Ave Caldwell NJ Wickes Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ Wincharger Corp E 7 & Division St Sioux City 2 Iowa  97—TUBES  Tubes, ATR 1 Tubes, backward wave 2 Tubes, ballast 3 Tubes, baltary charger 4	Bendix Aviation Corp   1104 Fisher Bldg   Detroit 2 Mich   1-16-18-19-29-30-35   Bendix Aviation Corp   Red Bank Div   11-16-18-19-22-24- Eatontown NJ   26-29-30-32-34-45   Black Light Corp of America   5114 Walnut Grove Ave   San Gabriel Calif   44   Black Light Eastern Corp   33-00 Northern Blvd   Long Island City 1 NY   44   Bogue Electric Mfg Co   Iowa Ave Paterson 3 NJ   4   Bomac Labs Inc   Salem Rd   1-2-16-17-29-30-31- Beverly Mass   33-34-35-37-39   Bristol Co   PO Box 1790 EITT   Waterbury 20 Conn   6   Burroughs Corp   6071 2 Ave Detroit 32 Mich   17   Burroughs Corp Electronic Tube Div   Box 1226 Plainfield NJ   8-30   Calvideo Tube Corp   5222 W 104 St   Los Angeles 45 Calif   5-7-42-43   CBS Hytron Div   Calvideo Tube Corp
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N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co 123 Hampshire St Quincy Ill General Bronze Corp 711 Stewart Ave Garden City NY Guild Electronics Inc 388 Broadway New York 13 NY Hallicrafters Co 4401 W 5 Ave Chicago 24 Ill Harvey-Wells Electronics Inc North St Southbridge Mass Heath Co 305 Territorial Rd Benton Harbor Mich Highland Eng'g Co 90 Magnolia St Westbury NY Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind JaMae Products Co 8845 N E Sandy Blvd Portland 20 Ore Johnson Co E F Waseca Minn Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa	3 7 7 3-4-8 3-5 8 5 6-8 2 8 8 2 5	942 E Ojai Ave Ojai Calif Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY US Dynamics Corp 1250 Columbus Ave Boston 20 Mass Virginia Electronics Co River Rd & B & O RR Washington 16 DC Warren Mfg Co Newtown Rd Littleton Mass Waveline Inc Passaic Ave Caldwell NJ Wickes Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ Wincharger Corp E 7 & Division St Sioux City 2 Iowa  97—TUBES  Tubes, ATR 1 Tubes, backward wave 2 Tubes, ballast 3 Tubes, cathode-ray 5 Tubes, ceramic 6	Bendix Aviation Corp   1104 Fisher Bldg   Detroit 2 Mich   1-16-18-19-29-30-35   Bendix Aviation Corp   Red Bank Div   11-16-18-19-22-24   Eatontown NJ   26-29-30-32-34-45   Black Light Corp of America   5114 Walnut Grove Ave   San Gabriel Calif   44   Black Light Eastern Corp   33-00 Northern Blvd   Long Island City 1 NY   44   Bogue Electric Mfg Co   Iowa Ave Paterson 3 NJ   4   Bomac Labs Inc   Salem Rd   1-2-16-17-29-30-31   Beverly Mass   33-34-35-37-39   Bristol Co   PO Box 1790 EITT   Waterbury 20 Conn   6   Burroughs Corp   6071 2 Ave Detroit 32 Mich   17   Burroughs Corp   Electronic Tube Div   Box 1226 Plainfield NJ   8-30   Calvideo Tube Corp   5222 W 104 St   Los Angeles 45 Calif   5-7-42-43   CBS Hytron Div   Columbia Broadcasting System   100 Endicott St   5-7-18-22-24-26- Danvers Mass   30-37-38-42-45   5-7-18-22-24-25- Danvers Mass   30-37-38-42-45   5-7-18-22-24-25- Danvers Mass   30-37-38-42-45   1-2-16-17-18-22-24-26- Danvers Mass   30-37-38-42-45   1-2-16-18-19-2-24-26- Danvers Mass   30-37-38-42-45   1-2-16-18-19-2-24-25- 1-2-24-26- Danvers Mass   30-37-38-42-45   1-2-16-18-19-2-24-26- 1-2-24-26- Danvers Mass   30-37-38-42-45   1-2-16-18-19-2-24-26- 1-2-24-2
N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co 123 Hampshire St Quincy III General Bronze Corp 711 Stewart Ave Garden City NY Guild Electronics Inc 388 Broadway New York 13 NY Hallicrafters Co 4401 W 5 Ave Chicago 24 III Harvey-Wells Electronics Inc North St Southbridge Mass Heath Co 305 Territorial Rd Benton Harbor Mich Highland Eng'g Co 90 Magnolia St Westbury NY Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind Jamae Products Co 8845 N E Sandy Blvd Portland 20 Ore Johnson Co E F Waseca Minn Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa Kaiser Aircraft & Electronics Corp	3 7 7 3-4-8 3-5 8 5 6-8 2 8 8 2 5 4-7	942 E Ojai Ave Ojai Calif Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY US Dynamics Corp 1250 Columbus Ave Boston 20 Mass Virginia Electronics Co River Rd & B & O RR Washington 16 DC Warren Mfg Co Newtown Rd Littleton Mass 6 Waveline Inc Passaic Ave Caldwell NJ Wickes Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ Wincharger Corp E 7 & Division St Sioux City 2 Iowa  97—TUBES  Tubes, ATR 1 Tubes, backward wave 2 Tubes, ballast 1 Tubes, cathode-ray 5 Tubes, ceramic 6 Tubes, color TV picture  7	Bendix Aviation Corp
N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co 123 Hampshire St Quincy III General Bronze Corp 711 Stewart Ave Garden City NY Guild Electronics Inc 388 Broadway New York 13 NY Hallicrafters Co 4401 W 5 Ave Chicago 24 III Harvey-Wells Electronics Inc North St Southbridge Mass Heath Co 305 Territorial Rd Benton Harbor Mich Highland Eng'g Co 90 Magnolia St Westbury NY Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind JaMac Products Co 8845 N E Sandy Blyd Portland 20 Ore Johnson Co E F Waseca Minn Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa Kaiser Aircraft & Electronics Corp Toledo Electronics Div P O Box 437 Toledo Ohio	3 7 7 3-4-8 3-5 8 5 6-8 2 8 8 2 5 4-7	942 E Ojai Ave Ojai Calif  Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY US Dynamics Corp 1250 Columbus Ave Boston 20 Mass Virginia Electronics Co River Rd & B & O RR Washington 16 DC Warren Mfg Co Newtown Rd Littleton Mass Waveline Inc Passaic Ave Caldwell NJ Wickes Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ Wincharger Corp E 7 & Division St Sioux City 2 Iowa  97—TUBES  Tubes, ATR 1 Tubes, backward wave 2 Tubes, ballast 3 Tubes, cathode-ray Tubes, ceramic 6 Tubes, color TV picture 7 Tubes, counting 8	Bendix Aviation Corp   1104 Fisher Bldg   Detroit 2 Mich
N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co 123 Hampshire St Quincy III General Bronze Corp 711 Stewart Ave Garden City NY Guild Electronics Inc 388 Broadway New York 13 NY Hallicrafters Co 4401 W 5 Ave Chicago 24 III Harvey-Wells Electronics Inc North St Southbridge Mass Heath Co 305 Territorial Rd Benton Harbor Mich Highland Eng'g Co 90 Magnolia St Westbury NY Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind Jamac Products Co 8845 N E Sandy Blvd Portland 20 Ore Johnson Co E F Waseca Minn Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa Kaiser Aircraft & Electronics Corp Toledo Electronics Div P O Box 437 Toledo Ohio Kennedy & Co D S	3 7 7 3-4-8 3-5 8 5 6-8 2 8 8 2 5 4-7 1 8	942 E Ojai Ave Ojai Calif  Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY US Dynamics Corp 1250 Columbus Ave Boston 20 Mass Virginia Electronics Co River Rd & B & O RR Washington 16 DC Warren Mfg Co Newtown Rd Littleton Mass 6 Waveline Inc Passaic Ave Caldwell NJ Wickes Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ Wincharger Corp E 7 & Division St Sioux City 2 Iowa  97—TUBES  Tubes, ATR 1 Tubes, backward wave 2 Tubes, ballast Tubes, cathode-ray Tubes, cathode-ray Tubes, counting Tubes, counting Tubes, counting Tubes, counting Tubes, electron multiplier 9	Bendix Aviation Corp
N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co 123 Hampshire St Quincy Ill General Bronze Corp 711 Stewart Ave Garden City NY Guild Electronics Inc 388 Broadway New York 13 NY Hallicrafters Co 4401 W 5 Ave Chicago 24 Ill Harvey-Wells Electronics Inc North St Southbridge Mass Heath Co 305 Territorial Rd Benton Harbor Mich Highland Eng'g Co 90 Magnolia St Westbury NY Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind Jamae Products Co 8845 N E Sandy Blvd Portland 20 Ore Johnson Co E F Waseca Minn Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa Kaiser Aircraft & Electronics Corp Toledo Electronics Div P O Box 437 Toledo Ohio Kennedy & Co D S 155 King St Cohasset Mass	3 7 3-4-8 3-5 8 5 6-8 2 8 8 2 4-7 1	942 E Ojai Ave Ojai Calif Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY US Dynamics Corp 1250 Columbus Ave Boston 20 Mass Virginia Electronics Co River Rd & B & O RR Washington 16 DC Warren Mfg Co Newtown Rd Littleton Mass 6 Waveline Inc Passaic Ave Caldwell NJ Wickes Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ Wincharger Corp E 7 & Division St Sioux City 2 Iown  97—TUBES  Tubes, ATR 1 Tubes, backward wave 2 Tubes, ballast Tubes, cathode-ray Tubes, cathode-ray Tubes, counting 8 Tubes, counting 8 Tubes, counting 8 Tubes, counting 8 Tubes, gamma ray 10	Bendix Aviation Corp
N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co 123 Hampshire St Quincy III General Bronze Corp 711 Stewart Ave Garden City NY Guild Electronics Inc 388 Broadway New York 13 NY Hallicrafters Co 4401 W 5 Ave Chicago 24 III Harvey-Wells Electronics Inc North St Southbridge Mass Heath Co 305 Territorial Rd Benton Harbor Mich Highland Eng'g Co 90 Magnolia St Westbury NY Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind Jamac Products Co 8845 N E Sandy Blvd Portland 20 Ore Johnson Co E F Waseca Minn Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa Kaiser Aircraft & Electronics Corp Toledo Electronics Div P O Box 437 Toledo Ohio Kennedy & Co D S	3 7 7 3-4-8 3-5 8 5 6-8 2 8 8 2 5 4-7 1 8	942 E Ojai Ave Ojai Calif Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY US Dynamics Corp 1250 Columbus Ave Boston 20 Mass Virginia Electronics Co River Rd & B & ORR Washington 16 DC Warren Mfg Co Newtown Rd Littleton Mass Waveline Inc Passaic Ave Caldwell NJ Wickes Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ Wincharger Corp E 7 & Division St Sioux City 2 Iowa  97—TUBES  Tubes, ATR Tubes, backward wave 2 Tubes, ballast Tubes, cathode-ray 5 Tubes, color TV picture 7 Tubes, counting 8 Tubes, gamma ray 10 Tubes, gamma ray 11	Bendix Aviation Corp
N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co 123 Hampshire St Quincy Ill General Bronze Corp 711 Stewart Ave Garden City NY Guild Electronics Inc 388 Broadway New York 13 NY Hallicrafters Co 4401 W 5 Ave Chicago 24 Ill Harvey-Wells Electronics Inc North St Southbridge Mass Heath Co 305 Territorial Rd Benton Harbor Mich Highland Eng'g Co 90 Magnolia St Westbury NY Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind JaMae Products Co 8845 N E Sandy Blyd Portland 20 Ore Johnson Co E F Waseca Minn Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa Kaiser Aircraft & Electronics Corp Toledo Chectronics Div P O Box 437 Toledo Ohio Kennedy & Co D S 155 King St Cohasset Mass Kepco Labs 131-38 Sanford Ave Flushing NY Kluge Electronics Inc	3 7 3-4-8 3-5 8 5 6-8 2 8 8 2 4-7 1 8 5	942 E Ojai Ave Ojai Calif         3           Transonic Inc         808 16 St Bakersfield Calif         8           Universal Atomics Corp         8           50 Bond St Westbury LI NY         8           US Dynamics Corp         1250 Columbus Ave Boston 20 Mass           Virginia Electronics Co         8           River Rd & B & O RR         3-6           Washington 16 DC         3-6           Warren Mfg Co         Newtown Rd Littleton Mass           Waveline Inc         6           Passaic Ave Caldwell NJ         6           Wickes Eng'g & Construction Co         12 St & Ferry Ave Camden 4 NJ         3           Wincharger Corp E         7 & Division St Sioux City 2 Iowa         8           97—TUBES           Tubes, ATR         1           Tubes, ballast         3           Tubes, battery charger         4           Tubes, cathode-ray         5           Tubes, color TV picture         7           Tubes, counting         8           Tubes, gamma ray         10           Tubes, gaiger counter         12	Bendix Aviation Corp   1104 Fisher Bldg   Detroit 2 Mich   1-16-18-19-29-30-35   Bendix Aviation Corp   Red Bank Div   11-16-18-19-22-24   Eatontown NJ   26-29-30-32-34-45   Black Light Corp of America   5114 Walnut Grove Ave   San Gabriel Calif   44   Black Light Eastern Corp   33-00 Northern Blvd   44   Black Light Eastern Corp   33-00 Northern Blvd   44   Bogue Electric Mfg Co   Iowa Ave Paterson 3 NJ   4   Bogue Electric Mfg Co   Iowa Ave Paterson 3 NJ   4   Bogue Electric Mfg Co   Iowa Ave Paterson 3 NJ   4   Bomac Labs Inc   Salem Rd   1-2-16-17-29-30-31- Beverly Mass   33-34-35-37-39   Bristol Co   PO Box 1790 EITT   Waterbury 20 Conn   6   Burroughs Corp   6071 2 Ave Detroit 32 Mich   17   Burroughs Corp Electronic Tube Div Box 1226 Plainfield NJ   8-30   Calvideo Tube Corp   5222 W 104 St   Los Angeles 45 Calif   5-7-42-43   CBS Hytron Div   Columbia Broadcasting System   100 Endicott St   5-7-18-22-24-26- Danvers Mass   30-37-38-42-45   Central b Div Globe Union Inc   900 E Keefe Ave Milwaukee 1 Wisc   6   Central Electronic Mfrs Inc   Sub Nuclear Corp of America   2   Richwood Pl   Denville NJ   1-20-22-25-27-29-30-34-35   Century Lighting Inc   521 W 43 St New York 36 NY   34
N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co 123 Hampshire St Quincy Ill General Bronze Corp 711 Stewart Ave Garden City NY Guild Electronics Inc 388 Broadway New York 13 NY Hallicrafters Co 4401 W 5 Ave Chicago 24 Ill Harvey-Wells Electronics Inc North St Southbridge Mass Heath Co 305 Territorial Rd Benton Harbor Mich Highland Eng'g Co 90 Magnolia St Westbury NY Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind Jamac Products Co 8845 N E Sandy Blvd Portland 20 Ore Johnson Co E F Waseca Minn Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa Kaiser Aircraft & Electronics Corp Toledo Ohio Kennedy & Co D S 155 King St Cohasset Mass Kepco Labs 131-38 Sanford Ave Flushing NY Kluge Electronics Inc 5 & Main Sts Albion Nebr	3 7 7 3-4-8 3-5 8 5 6-8 2 8 8 2 5 4-7 1 8 5	942 E Ojai Ave Ojai Calif Transonic Inc 808 16 St Bakersfield Calif Universal Atomics Corp 50 Bond St Westbury LI NY US Dynamics Corp 1250 Columbus Ave Boston 20 Mass Virginia Electronics Co River Rd & B & O RR Washington 16 DC Warren Mfg Co Newtown Rd Littleton Mass Waveline Inc Passaic Ave Caldwell NJ Wickes Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ Wincharger Corp E 7 & Division St Sioux City 2 Iowa  97—TUBES  Tubes, ATR 1 Tubes, backward wave 2 Tubes, ballast 1 Tubes, cathode-ray Tubes, color TV picture 7 Tubes, gamma ray Tubes, gas 11 Tubes, gas 12 Tubes, gaiger counter 12 Tubes, giger counter 12 Tubes, giger counter 12 Tubes, glow or discharge 13	Bendix Aviation Corp
N Hollywood Calif Erco Radio Labs Inc 637 Stewart Ave Garden City NY Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Gates Radio Co 123 Hampshire St Quincy Ill General Bronze Corp 711 Stewart Ave Garden City NY Guild Electronics Inc 388 Broadway New York 13 NY Hallicrafters Co 4401 W 5 Ave Chicago 24 Ill Harvey-Wells Electronics Inc North St Southbridge Mass Heath Co 305 Territorial Rd Benton Harbor Mich Highland Eng'g Co 90 Magnolia St Westbury NY Homelite Div Textron Inc 67 Riverdale Ave Port Chester NY Industrial Development Eng'g Assoc 7900 Pendleton Pike Indianapolis Ind JaMae Products Co 8845 N E Sandy Blyd Portland 20 Ore Johnson Co E F Waseca Minn Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa Kaiser Aircraft & Electronics Corp Toledo Chectronics Div P O Box 437 Toledo Ohio Kennedy & Co D S 155 King St Cohasset Mass Kepco Labs 131-38 Sanford Ave Flushing NY Kluge Electronics Inc	3 7 3-4-8 3-5 8 5 6-8 2 8 8 2 4-7 1 8 5	942 E Ojai Ave Ojai Calif         3           Transonic Inc         808 16 St Bakersfield Calif         8           Universal Atomics Corp         8           50 Bond St Westbury LI NY         8           US Dynamics Corp         1250 Columbus Ave Boston 20 Mass           Virginia Electronics Co         8           River Rd & B & O RR         3-6           Washington 16 DC         3-6           Warren Mfg Co         Newtown Rd Littleton Mass           Waveline Inc         6           Passaic Ave Caldwell NJ         6           Wickes Eng'g & Construction Co         12 St & Ferry Ave Camden 4 NJ         3           Wincharger Corp E         7 & Division St Sioux City 2 Iowa         8           97—TUBES           Tubes, ATR         1           Tubes, ballast         3           Tubes, battery charger         4           Tubes, cathode-ray         5           Tubes, color TV picture         7           Tubes, counting         8           Tubes, gamma ray         10           Tubes, gaiger counter         12	Bendix Aviation Corp   1104 Fisher Bldg   Detroit 2 Mich   1-16-18-19-29-30-35   Bendix Aviation Corp   Red Bank Div   11-16-18-19-22-24   Eatontown NJ   26-29-30-32-34-45   Black Light Corp of America   5114 Walnut Grove Ave   San Gabriel Calif   44   Black Light Eastern Corp   33-00 Northern Blvd   44   Black Light Eastern Corp   33-00 Northern Blvd   44   Bogue Electric Mfg Co   Iowa Ave Paterson 3 NJ   4   Bogue Electric Mfg Co   Iowa Ave Paterson 3 NJ   4   Bogue Electric Mfg Co   Iowa Ave Paterson 3 NJ   4   Bomac Labs Inc   Salem Rd   1-2-16-17-29-30-31- Beverly Mass   33-34-35-37-39   Bristol Co   PO Box 1790 EITT   Waterbury 20 Conn   6   Burroughs Corp   6071 2 Ave Detroit 32 Mich   17   Burroughs Corp Electronic Tube Div Box 1226 Plainfield NJ   8-30   Calvideo Tube Corp   5222 W 104 St   Los Angeles 45 Calif   5-7-42-43   CBS Hytron Div   Columbia Broadcasting System   100 Endicott St   5-7-18-22-24-26- Danvers Mass   30-37-38-42-45   Central b Div Globe Union Inc   900 E Keefe Ave Milwaukee 1 Wisc   6   Central Electronic Mfrs Inc   Sub Nuclear Corp of America   2   Richwood Pl   Denville NJ   1-20-22-25-27-29-30-34-35   Century Lighting Inc   521 W 43 St New York 36 NY   34

1501 Broadway New York 36 NY 7-30-42	22 Thames St	180 Varick St New York 14 NY 30
Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham	New York 6 NY 8-11-12-18-24-26-30-33 Isolantite Mfg Corp	Sperry-Gyroscope Co Div Sperry Rand Corp Great Neck NY 16-39
London SE 26 England 5-8-9-20	Warren Ave Stirling NJ 6	State Labs Inc
Claremont Tube Corp 36-02 35 Ave Long Island City 6 NY 5	Isotopes Specialties Co 703 S Main St Burbank Calif 10-12-28	649 Broadway New York 12 NY 4-12-13-16-18-20
Clarostat Mfg Co	JFD Mfg Co	Steward Mfg Co D M
Washington St Dover NH 3 Clowes Ceramic Corp	Kemlite Labs Inc	Chattanooga Tenn 6 Stroblite Co
3711 Calhoun Ave Chattanooga 7 Tenn 6	1819 W Grand Ave Chicago 22 Ill 10-11-13-15-31-44	75 W 45 St New York 36 NY 44
Consolidated Electrodynamics Corp Rochester Div	Kip Electronics Corp	Stromberg-Carlson Div General Dynamics Corp
1775 Mt Read Blvd Rochester 4 NY 21	29 Holly Pl Stamford Conn 3-8-11-13-18-29-30-32-34-45	1895 Hancock St San Diego 12 Calif 5
Continental Electric Co Taylor Tubes Inc 6 N Michigan Ave	Kirchberger & Co H	Stromberg-Carlson Div General Dynamics Corp
Chicago 2 III 4-15-20-25-27-30-34	83 W Forest Ave Englewood NJ 6 Kriss Electronics Inc	100 Carlson Rd Rochester 3 NY 5
Cossor (Canada) Ltd 301 Windsor St	191 Oraton St Newark 4 NJ 5-7	Stupakoff Div Carborundum Co Latrobe Pa 6
Halifax Nova Scotia Canada 5 Dallons Labs	Kuthe Labs 730 S 13 St Newark 3 NJ 27-33-34 Lansdale Tube Co Div Philco Corp	Superior Steatite & Ceramic Corp
5066 Santa Monica Blvd	Church Rd 5-7-11-13-18-19-23 Lansdale Pa 24-26-30-32-42-44-45	91 W Forest Ave Englewood NJ 6 Sylvania Electric Products Inc 1-2-3-4-6-8-9-11-
Los Angeles 29 Calif 44 DeMornay-Bonardi Corp	Lansdverk Electrometer Co	1740 Broadway 13-16-17-18-19-20-22-24-25-26-
780 S Arroyo Pkwy	550 W Garfield Ave Glendale 4 Calif 8-10-12	New York 19 NY 30-31-32-33-35-37-39-42-45 Televideo Corp of America
Pasadena Calif 2-16-19-39 Diamond Power Specialty Corp	Lewis & Kaufman Ltd Div of Int'l	3317 Exposition Pl
Lancaster Ohio 42	Glass Corp P O Box 337 Los Gatos Calif 22-25-27-30-37-38	Los Angeles 18 Calif 42-43 Thomas Electronics Inc
Dudek & Co R C 407 N Maple Dr	Litton Industries of Calif 336 N Foothill Rd	118 9 St Passaic NJ 5-42
Beverly Hills Calif 8-10-12-14-28-45	Reverly Hills Calif 2-7-16-17-38-39	Tracerlab Inc 1601 Trapelo Rd Waltham 54 Mass 10-12
Du Mont Labs Inc Allen B 760 Bloomfield Ave Clifton NJ 5-9	Litton Industries Electronic Display Lab 1476 66 St Emeryville Calif 5-7-30-42	Transitron Inc
Dumont Labs Allen B Industrial Tube Sales	Litton Industries Electron Tube Div 960 Industrial Rd	186 Granite St Manchester NH 25 Triplett & Barton
2 Main Ave Passaic NJ 5-20 Dunlee Corp	San Carlos Calif 2-16-17-39	831 N Lake St Burbank Calif 46
4558 W Congress St Chicago 24 III 25-46	Louthan Mfg Co	Tung-Sol Electric Inc 95 8 Ave
Edgerton, Germeshausen & Grier 160 Brookline Ave Boston 15 Mass 5-29-34	Harvey Ave E Liverpool Ohio 6 Machlett Labs Inc	Newark 4 NJ 3-5-18-22-24-26-30-32-37-42 Ultra-Violet Products Inc
Eitel-McCullough Inc 798 San Mateo Ave	1063 Hope St Springdale Conn 22-25-27-30-38-41-46	5114 Walnut Grove Ave
San Bruno Calif 6-16-18-22-24-25-27-34-38	MacKay Research Labs R R 2 Box 401 McHenry Ill 9-11-13-15-17-20	San Gabriel Calif 44 United Electronics Co
Electrical Refractories Co	Marconi Instruments Ltd	42 Spring St Newark 4 NJ 11-25-27-30-34-38
Electronic Enterprises Inc	44 New St New York 4 NY 39-41	US Dynamics Corp 1250 Columbus Ave Boston 20 Mass 25-26-27
65 7 Ave Newark NJ 25-27-34-38 Electronic Products Co	Mica Fabricating Co Rochelle Park NJ 18 Microwave Associates Inc	US Stoneware Co Alite Div
111 E 3 St	Burlington Mass 1-17-35 Mitronics Inc	Orville Ohio Vacuum Tube Products Co
Mt Vernon NY 9-10-11-12-13-30-32-45 Electronic Tube Corp	1290 Central Ave Hillside NJ 6	506 S Cleveland St
1200 E Mermaid Lane Philadelphia 18 Pa 5	Mullard Overseas Ltd Century House Shaftsbury Ave	Oceanside Calif 5-21-25-30-33-34 Varian Associates
Electron-Radar Products Co 4806 W Chicago Ave Chicago 51 III 20	London England 24 National Electronics Inc	611 Hansen Way Palo Alto Calif 2-16-22
Electrons Inc	628 North St Geneva Ill 4-11-14-25-30-34	Victoreen Instrument Co 5806 Hough Ave
127 Sussex Ave Newark 3 NJ 25-34 Engineering Co	National Union Electric Corp 1201 E Bell St	Cleveland 3 Ohio 3-8-10-12-13-18-30-32-45 Waterman Products Co
27 Wright St Newark 5 NJ 22-27-34 Eureka X-Ray Tube Corp	Bloomington Ill 5-11-13-22-30-45	2445 Emerald St Philadelphia 25 Pa 5
3250 N Kilpatric Ave Chicago 41 III 4c	Nevada Air Products Co P O Box 2472 Reno Nev 15	Westinghouse Electric Corp 1-5-7-9-11-14-17-18- Box 284 21-22-24-25-26-27-
Farnsworth Electronics Co Div IT&T 3702 E Pontiac St	New York Mfg & General Supply	Box 284 21-22-24-25-26-27 Elmira NY 29-30-34-37-41-42
Ft Wayne Ind	10-38 Jackson Ave Long Island City 1 NY 46 NRD Instrument Co	White Electron Devices Inc Roger 92 4 Ave
Federal Telecommunication Labs Div IT&T	6425 Etzel Ave St Louis 14 Mo 10-12-28 Nuclear-Chicago Corp	Haskell NJ 2-11-13-19-30-33-35-39
500 Washington Ava Nutlan NT 00	223 W Erie St Chicago 10 Ill 8-10-12-28	Wood Counter Lab N 1525 E 53 St Chicago 15 III 10-12-28
Federal Telephone & Radio Co Div IT&T	Nuclear Corp of America Empire State Bldg 1-12-22-30-34	Workman TV Inc
100 Kingsland Rd	New York NY 35-37-38-39-45	309 Queen Anne Rd Teaneck NJ 30
Clifton NJ Fish-Schurman Corp	Nuclear Development Lab P O Box 7034 Kansas City 13 Mo 10-12	98—TUBE PARTS
70 Portman Rd New Rochelle NY 6 Force Scientific Co	Nucleonic Corp of America 196 Degraw St Brooklyn 31 NY 10-12-28	
533 Lincoln St Evanston III 10 10	Nucleonic Products Co	Adapters 1 Anodes, graphite 2
706 Drugdes St. N. O. I.	1601 Grande Vista Ave Los Angeles 23 Calif 31	Anodes, metal
Fredelitown Porcelain Co	OK Electronics Corp	Base pins 4
Muirhead Ave Trenton 9 N.I		buse pins
Gales & Co Goo W	7 Hunt Pl Nutley NJ 24 Penta Laboratories Inc	Bases
Hempstead Toke & Lucilla Ava	Penta Laboratories Inc 312 N Nopal St	Bases
Hempstead Tpke & Lucille Ave Franklin Square LI NY Geisler Labe 44	Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif 22-27-30-34-38-39	Bases       5         Bellows       6         Bulbs       7
Hempstead Tpke & Lucille Ave Franklin Square LI NY Geisler Labs P.O. Box 252 Monle David C. V.	Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif Philco Corp Accessory Div "A" & Allegheny Ave	Bases       5         Bellows       6         Bulbs       7         Button stems       8
Hempstead Type & Lucille Ave Franklin Square LI NY Geisler Labs P O Box 252 Menlo Park Calif General Electric Co Apparatus Sales Div I River Rd Schapecter LVX	Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif Philco Coro Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa 24-42	Bases 5 Bellows 6 Bulbs 7 Button stems 8 Caps 9 Cathode ray, deflection plates 10
Hempstead Toke & Lucille Ave Franklin Square LI NY Geisler Labs P O Box 252 Menlo Park Calif General Electric Co Apparatus Sales Div I River Rd Schenectady 5 NY General Electric Co	Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif Philco Coro Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa Philco Corp Govt & Industrial Div 4700 Wissahickon Ave	Bases       5         Bellows       6         Bulbs       7         Button stems       8         Caps       9         Cathode ray, deflection plates       10         Cathode ray, electrodes       11
Hempstead Toke & Lucille Ave Franklin Square LI NY  Geisler Labs P O Box 252 Menlo Park Calif General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY  General Electric Co Electric Components Div 1 River Rd 13-14-16-17-18-20-22-24	Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif 22-27-30-34-38-39 Philco Corp Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa Philco Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa 5 Philips Electronics Inc	Bases 5 Bellows 6 Bulbs 7 Button stems 8 Caps 9 Cathode ray, deflection plates 10 Cathode ray, electrodes 11 Cathode ray, electron guns 12
Hempstead Toke & Lucille Ave Franklin Square LI NY  Geisler Labs P O Box 252 Menlo Park Calif General Electric Co Apparatus Sales Div I River Rd Schenectady 5 NY  General Electric Co Electric Components Div 1-2-3-5-6-7-9-11 I River Rd 13-14-16-17-18-20-22-24 Schenectady 5 25-26-27-30-32-33-34-35 NY	Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif Philco Coro Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa Philco Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY 12-28-46	Bases 5 Bellows 6 Bulbs 7 Button stems 8 Caps 9 Cathode ray, deflection plates 10 Cathode ray, electrodes 11 Cathode ray, electron guns 12 Cathodes 13
Hempstead Toke & Lucille Ave   Franklin Square LI NY	Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif 22-27-30-34-38-39 Philco Coro Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa Philco Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa 5 Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY 12-28-46 Photobell Co 43 Vesey St New York 7 NY 20	Bases 5 Bellows 6 Bulbs 7 Button stems 8 Caps 9 Cathode ray, deflection plates 10 Cathode ray, electrodes 11 Cathode ray, electron guns 12 Cathodes 13 Cavities 14
Hempstead Tpke & Lucille Ave   Franklin Square LI NY	Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif Philco Coro Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa Philco Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY 12-28-46 Photobell Co 43 Vesey St New York 7 NY 20 Photo Crystals Inc 15 S 1 St Geneva III 20 Polarad Electronics Corp	Bases 5 Bellows 6 Bulbs 7 Button stems 8 Caps 9 Cathode ray, deflection plates 10 Cathode ray, electrodes 11 Cathode ray, electron guns 12 Cathodes 13 Cavities 14 Ceramic parts 15
Hempstead Tpke & Lucille Ave   Franklin Square LI NY	Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif 22-27-30-34-38-39 Philco Coro Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa Philco Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY 12-28-46 Photobell Co 43 Vesey St New York 7 NY 20 Photo Crystals Inc 15 S 1 St Geneva Ill 20 Polarad Electronics Corp 43-20 34 St Long Island City 1 NY 16	Bases 5 Bellows 6 Bulbs 7 Button stems 8 Caps 9 Cathode ray, deflection plates 10 Cathode ray, electrodes 11 Cathode ray, electron guns 12 Cathodes 13 Cavities 14 Ceramic parts 15 Coatings, CRT 16 Cones, Metal 17
Hempstead Tpke & Lucille Ave Franklin Square LI NY  Geisler Labs P O Box 252 Menlo Park Calif 1 River Rd Schenectady 5 NY 4 General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY 4 General Electric Co Electric Components Div 1 -2-3-5-6-7-9-11 1 River Rd 1 13-14-16-17-18-20-22-24 Schenectady 5 25-26-27-30-32-33-34-35 NY 37-38-39-40-41-42-45 General Electric Co Ltd of England 80 Shore Rd Port Washington NY 26-27-30-37-38-45 General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wisc 12-25-46 Gordos Corp	Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif Philco Coro Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa Philco Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY 12-28-46 Photobell Co 43 Vesey St New York 7 NY 20 Photo Crystals Inc 15 S 1 St Geneva Ill 20 Plolarad Electronics Corp 43-20 34 St Long Island City 1 NY 16 Pye Canada Ltd 82 Northline Rd	Bases 5 Bellows 6 Bulbs 7 Button stems 8 Caps 9 Cathode ray, deflection plates 10 Cathode ray, electrodes 11 Cathode ray, electron guns 12 Cathodes 13 Cavities 14 Ceramic parts 15 Coatings, CRT 16 Cones, Metal 17 Faceplates, CRT 18
Hempstead Toke & Lucille Ave Franklin Square LI NY	Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif 22-27-30-34-38-39 Philco Coro Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa Philco Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa 5 Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY 12-28-46 Photobell Co 43 Vesey St New York 7 NY 20 Photo Crystals Inc 15 S 1 St Geneva Ill 20 Polarad Electronics Corp 43-20 34 St Long Island City 1 NY 16 Pye Canada Ltd	Bases 5 Bellows 6 Bulbs 7 Button stems 8 Caps 9 Cathode ray, deflection plates 10 Cathode ray, electrodes 11 Cathode ray, electron guns 12 Cathodes 13 Cavities 14 Ceramic parts 15 Coatings, CRT 16 Cones, Metal 17 Faceplates, CRT 18 Focusing magnets 19
Hempstead Tpke & Lucille Ave Franklin Square LI NY  Geisler Labs P O Box 252 Menlo Park Calif 2-39 General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY 4 General Electric Co Electric Components Div 1-2-3-5-6-7-9-11 1 River Rd 13-14-16-17-18-20-22-24 Schenectady 5 25-26-27-30-32-33-34-35 NY 37-38-39-40-41-42-45 General Electric Co Ltd of England 80 Shore Rd Port Washington NY 26-27-30-37-38-45 General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wisc 12-25-46 Gordos Corp 250 Glenwood Ave Bloomfield NJ 4-20-25-44 Hanovia Chemical & Mfg Co 100 Chestnut St Newayl 5 NJ	Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif Philco Coro Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa Philco Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY 12-28-46 Photobell Co 43 Vesey St New York 7 NY 20 Photo Crystals Inc 15 S 1 St Geneva III 20 Photo Crystals Inc 15 S 1 St Geneva III 20 Polarad Electronics Corp 43-20 34 St Long Island City 1 NY 16 Pye Canada Ltd 82 Northline Rd Toronto 16 Ont Canada 8-33-41 "Q" Glass Co 470 Broad St	Bases       5         Bellows       6         Bulbs       7         Button stems       8         Caps       9         Cathode ray, deflection plates       10         Cathode ray, electrodes       11         Cathodes       13         Cavities       14         Ceramic parts       15         Coatings, CRT       16         Cones, Metal       17         Faceplates, CRT       18         Focusing magnets       19         Fused quartz parts       20
Hempstead Toke & Lucille Ave Franklin Square LI NY  Geisler Labs P O Box 252 Menlo Park Calif 2-39 General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY  General Electric Co Electric Components Div 1-2-3-5-6-7-9-11 1 River Rd 13-14-16-17-18-20-22-24 Schenectady 5 NY 37-38-39-40-41-42-45 Schenectady 5 NY General Electric Co Ltd of England 80 Shore Rd 5-17-18-19-22-24 Port Washington NY 26-27-30-37-38-45 General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wisc 12-25-46 Gordos Corp 250 Glenwood Ave Bloomfield NJ 4-20-25-44 Hanovia Chemical & Mfg Co 100 Chestnut St Newark 5 NJ 44 Hanson-Gorrill-Brian 85 Hazel St Glen Cove NY	Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif Philco Coro Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa Philco Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY 12-28-46 Photobell Co 43 Vesey St New York 7 NY 20 Photo Crystals Inc 15 S 1 St Geneva Ill 20 Plolarad Electronics Corp 43-20 34 St Long Island City 1 NY 16 Pye Canada Ltd 32 Northline Rd Toronto 16 Ont Canada 8-33-41 "Q" Glass Co 470 Broad St Rudio Corp of America	Bases       5         Bellows       6         Bulbs       7         Button stems       8         Caps       9         Cathode ray, deflection plates       10         Cathode ray, electron guns       12         Cathodes       13         Cavities       14         Ceramic parts       15         Coatings, CRT       16         Cones, Metal       17         Faceplates, CRT       18         Focusing magnets       19         Fused quartz parts       20         Getters       21         Grid frames       22
Hempstead Toke & Lucille Ave Franklin Square LI NY  Geisler Labs P O Box 252 Menlo Park Calif General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY  General Electric Co Electric Components Div 1 River Rd 13-14-16-17-18-20-22-24 Schenectady 5 25-26-27-30-32-33-34-35 NY General Electric Co Ltd of England 80 Shore Rd Port Washington NY 26-27-30-37-38-45 General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wisc 12-25-46 Gordos Corp 250 Glenwood Ave Bloomfield NJ 4-20-25-44 Hanovia Chemical & Mfg Co 100 Chestnut St Newark 5 NJ 44 Hanson-Gorrill-Brian 85 Hazel St Glen Cove NY 30  44 Co E Vernon 30	Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif Philco Coro Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa Philco Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY 12-28-46 Photobell Co 43 Vesey St New York 7 NY 20 Photo Crystals Inc 15 S 1 St Geneva Ill 20 Plotard Electronics Corp 43-20 34 St Long Island City 1 NY 16 Pye Canada Ltd 82 Northline Rd Toronto 16 Ont Canada 8-33-41 "Q" Glass Co 470 Broad St Bloomfield NJ 6-12-14-17-29-30-34-39-46 Radio Corp of America 415 S 5t 5-7-9-16-17-18-20-22-23-24-25-26-27	Bases       5         Bellows       6         Bulbs       7         Button stems       8         Caps       9         Cathode ray, deflection plates       10         Cathode ray, electrodes       11         Cathodes       13         Cavities       14         Ceramic parts       15         Coatings, CRT       16         Cones, Metal       17         Faceplates, CRT       18         Focusing magnets       19         Fused quartz parts       20         Getters       21         Grid frames       22         Grids       23
Hempstead Tpke & Lucille Ave Franklin Square LI NY	Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif Philco Coro Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa Philco Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY 12-28-46 Photobell Co 43 Vesey St New York 7 NY 20 Photo Crystals Inc 15 S 1 St Geneva Ill 20 Plolarad Electronics Corp 43-20 34 St Long Island City 1 NY 16 Pye Canada Ltd 82 Northline Rd Toronto 16 Ont Canada 8-33-41 "Q" Glass Co 470 Broad St Bloomfield NJ 6-12-14-17-29-30-34-39-46 Radio Corp of America 415 S 5 St 5-7-9-16-17-18-20-22-23-24-25-26-27 Harrison NJ 28-30-33-34-37-38-39-40-41-42-45 Raytheon Mfg Co	Bases       5         Bellows       6         Bulbs       7         Button stems       8         Caps       9         Cathode ray, deflection plates       10         Cathode ray, electrodes       11         Cathodes       13         Cavities       14         Ceramic parts       15         Coatings, CRT       16         Cones, Metal       17         Faceplates, CRT       18         Focusing magnets       19         Fused quartz parts       20         Getters       21         Grid frames       22         Grids       23         Heat dissipators       24
Hempstead Tpke & Lucille Ave Franklin Square LI NY  Geisler Labs P O Box 252 Menlo Park Calif General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY  General Electric Co Electric Components Div 1 River Rd 13-14-16-17-18-20-22-24 Schenectady 5 25-26-27-30-32-33-34-35 NY General Electric Co Ltd of England 80 Shore Rd Port Washington NY 26-27-30-37-38-45 General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wisc 12-25-46 Gordos Corp 250 Glenwood Ave Bloomfield NJ 4-20-25-44 Hanovia Chemical & Mfg Co 100 Chestnut St Newark 5 NJ 44 Hanson-Gorrill-Brian 85 Hazel St Glen Cove NY Hill & Co E Vernon P O Box 189 Lake Geneva Wisc 111 Hamilton Ave Menlo Park Calif 2-39	Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif 22-27-30-34-38-39 Philco Coro Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa 24-42 Philco Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa 5 Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY 12-28-46 Photobell Co 43 Vesey St New York 7 NY 20 Photo Crystals Inc 15 S 1 St Geneva Ill 20 Polarad Electronics Corp 43-20 34 St Long Island City 1 NY 16 Pye Canada Ltd 82 Northline Rd Toronto 16 Ont Canada 8-33-41 "Q" Glass Co 470 Broad St Bloomfield NJ 6-12-14-17-29-30-34-39-46 Radio Corp of America 415 S 5 St 5-7-9-16-17-18-20-22-23-24-25-26-27 Harrison NJ 28-30-33-34-37-38-39-40-41-42-45 Raytheon Mfg Co Receiving & Cathode Ray Tube Operations	Bases       5         Bellows       6         Bulbs       7         Button stems       8         Caps       9         Cathode ray, deflection plates       10         Cathode ray, electrodes       11         Cathodes       13         Cavities       14         Ceramic parts       15         Coatings, CRT       16         Cones, Metal       17         Faceplates, CRT       18         Focusing magnets       19         Fused quartz parts       20         Getters       21         Grid frames       22         Grids       23         Heat dissipators       24         Ion traps       25
Hempstead Toke & Lucille Ave Franklin Square LI NY  Geisler Labs P O Box 252 Menlo Park Calif 2-39 General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY  General Electric Co Electric Components Div 1-2-3-5-6-7-9-11 1 River Rd 13-14-16-17-18-20-22-24 Schenectady 5 25-26-27-30-32-33-34-35 NY 37-38-39-40-41-42-45 General Electric Co Ltd of England 80 Shore Rd Port Washington NY 26-27-30-37-38-45 General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wisc 12-25-46 Gordos Corp 250 Glenwood Ave Bloomfield NJ 4-20-25-44 Hanovia Chemical & Mfg Co 100 Chestnut St Newark 5 NJ Hanson-Gorrill-Brian 85 Hazel St Glen Cove NY Hill & Co E Vernon P O Box 189 Lake Geneva Wisc 10 Huggins Labs Inc 711 Hamilton Ave Menlo Park Calif 2-39 Hughes Aircraft Co Florence & Teale Sts Culver City Calif 30-39	Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif Philco Coro Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa Philco Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY 12-28-46 Photobell Co 43 Vesey St New York 7 NY 20 Photo Crystals Inc 15 S 1 St Geneva III 20 Plolarad Electronics Corp 43-20 34 St Long Island City 1 NY 16 Pye Canada Ltd 82 Northline Rd Toronto 16 Ont Canada 8-33-41 "Q" Glass Co 470 Broad St Bloomfield NJ 6-12-14-17-29-30-34-39-46 Radio Corp of America 415 S 5 St 5-7-9-16-17-18-20-22-23-24-25-26-27 Harrison NJ 28-30-33-34-37-38-39-40-41-42-45 Raytheon Mfg Co Receiving & Cathode Ray Tube Operations 55 Chapel St Newton 58 Mass 29-30-32-34-37-42-45	Bases       5         Bellows       6         Bulbs       7         Button stems       8         Caps       9         Cathode ray, deflection plates       10         Cathode ray, electron guns       12         Cathodes       13         Cavities       14         Ceramic parts       15         Coatings, CRT       16         Cones, Metal       17         Faceplates, CRT       18         Focusing magnets       19         Fused quartz parts       20         Getters       21         Grid frames       22         Grids       23         Heat dissipators       24         Ion traps       25         Magnets, permanent       26
Hempstead Toke & Lucille Ave Franklin Square LI NY  Geisler Labs P O Box 252 Menlo Park Calif General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY  General Electric Co Electric Components Div 1 River Rd 13-14-16-17-18-20-22-24 Schenectady 5 25-26-27-30-32-33-34-35 NY General Electric Co Ltd of England 80 Shore Rd Sohre Rd Sohre Rd Fort Washington NY 1-2-3-5-40-41-42-45 General Electric Co Ltd of England 80 Shore Rd Fort Washington NY 1-7-18-19-22-24 General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wisc 12-25-46 Gordos Corp 250 Glenwood Ave Bloomfield NJ 1-2-0-25-44 Hanovia Chemical & Mfg Co 100 Chestnut St Newark 5 NJ 1-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif 22-27-30-34-38-39 Philco Coro Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa 24-42 Philco Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa 5 Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY 12-28-46 Photobell Co 43 Vesey St New York 7 NY 20 Photo Crystals Inc 15 S 1 S Geneva Ill 20 Polarad Electronics Corp 43-20 34 St Long Island City 1 NY 16 Pye Canada Ltd 32 Northline Rd Toronto 16 Ont Canada 8-33-41 "Q" Glass Co 470 Broad St Bloomfield NJ 6-12-14-17-29-30-34-39-46 Radio Corp of America 415 S 5 St 5-7-9-16-17-18-20-22-23-24-25-26-27 Harrison NJ 28-30-33-34-37-38-39-40-41-42-45 Raytheon Mfg Co Receiving & Cathode Ray Tube Operations 55 Chapel St Saytheon Mfg Co Ceramic Sales	Bases       5         Bellows       6         Bulbs       7         Button stems       8         Caps       9         Cathode ray, deflection plates       10         Cathode ray, electron guns       12         Cathodes       13         Cavities       14         Ceramic parts       15         Coatings, CRT       16         Cones, Metal       17         Faceplates, CRT       18         Focusing magnets       19         Fused quartz parts       20         Getters       21         Grid frames       22         Grids       23         Heat dissipators       24         Ion traps       25         Magnets, permanent       26         Masks, aperture       27
Hempstead Toke & Lucille Ave Franklin Square LI NY  Geisler Labs P O Box 252 Menlo Park Calif General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY  General Electric Co Electric Components Div 1 River Rd 13-14-16-17-18-20-22-24 Schenectady 5 25-26-27-30-32-33-34-35 NY General Electric Co Ltd of England 80 Shore Rd Port Washington NY 26-27-30-37-38-39-40-41-42-45 General Electric Co Ltd of England 80 Shore Rd Port Washington NY 26-27-30-37-38-45 General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wisc 12-25-46 Gordos Corp 250 Glenwood Ave Bloomfield NJ 4-20-25-44 Hanovia Chemical & Mfg Co 100 Chestnut St Newark 5 NJ 44 Hanson-Gorrill-Brian 85 Hazel St Glen Cove NY Hold Co Hold Chemical St Glen Cove NY Huggins Labs Inc 711 Hamilton Ave Menlo Park Calif 2-39 Hughes Aircraft Co Florence & Teale Sts Culver City Calif 30-39 Hughes Products Hughes Aircraft Co 5340 W 104 St Int'l Airport Sta Los Angeles 45 Calif 2-5-30-39	Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif Philco Coro Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa Philco Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY 12-28-46 Photobell Co 43 Vesey St New York 7 NY 20 Photo Crystals Inc 15 S 1 St Geneva Ill 20 Photo Crystals Inc 15 S 1 St Geneva Ill 20 Plolarad Electronics Corp 43-20 34 St Long Island City 1 NY 16 Pye Canada Ltd 82 Northline Rd Toronto 16 Ont Canada 8-33-41 "Q" Glass Co 470 Broad St Bloomfield NJ 6-12-14-17-29-30-34-39-46 Radio Corp of America 415 S 5 St 5-7-9-16-17-18-20-22-23-24-25-26-27 Harrison NJ 28-30-33-34-37-38-39-40-41-42-45 Raytheon Mfg Co Receiving & Cathode Ray Tube Operations 55 Chapel St 5-7-11-12-13-18-22-24-25- Newton 58 Mass 29-30-32-34-37-42-45 Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass 6 Raytheon Mfg Co	Bases       5         Bellows       6         Bulbs       7         Button stems       8         Caps       9         Cathode ray, deflection plates       10         Cathode ray, electrodes       11         Cathodes       13         Cavities       14         Ceramic parts       15         Coatings, CRT       16         Cones, Metal       17         Faceplates, CRT       18         Focusing magnets       19         Fused quartz parts       20         Getters       21         Grid frames       22         Grids       23         Heat dissipators       24         Ion traps       25         Magnets, permanent       26         Masks, aperture       27         Masks, picture tube       28
Hempstead Toke & Lucille Ave Franklin Square LI NY  Geisler Labs P O Box 252 Menlo Park Calif General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY  General Electric Co Electric Components Div 1 River Rd 13-14-16-17-18-20-22-24 Schenectady 5 25-26-27-30-32-33-34-35 NY 37-38-39-40-41-42-45 Schenectady 5 25-26-27-30-32-33-34-35 NY General Electric Co Ltd of England 80 Shore Rd So Shore Rd So Shore Rd Fort Washington NY 10-27-30-37-38-45 General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wisc 12-25-46 Gordos Corp 250 Glenwood Ave Bloomfield NJ 4-20-25-44 Hanovia Chemical & Mfg Co 100 Chestnut St Newark 5 NJ Hanson-Gorrill-Brian 85 Hazel St Glen Cove NY 30 Hill & Co E Vernon P O Box 189 Lake Geneva Wisc 30 Huggins Labs Inc 711 Hamilton Ave Menlo Park Calif 2-39 Hughes Products Hughes Aircraft Co 5340 W 104 St Int'l Airport Sta Los Angeles 45 Calif	Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif Philco Coro Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa Philco Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY 12-28-46 Photobell Co 43 Vesey St New York 7 NY 20 Photo Crystals Inc 15 S 1 St Geneva Ill 20 Photo Crystals Inc 15 S 1 St Geneva Ill 20 Polarad Electronics Corp 43-20 34 St Long Island City 1 NY 16 Pye Canada Ltd 82 Northline Rd Toronto 16 Ont Canada 8-33-41 "Q" Glass Co 470 Broad St Bloomfield NJ 6-12-14-17-29-30-34-39-46 Radio Corp of America 415 S 5 St 5-7-9-16-17-18-20-22-23-24-25-26-27 Harrison NJ 28-30-33-34-37-38-39-40-41-42-45 Raytheon Mfg Co Receiving & Cathode Ray Tube Operations 55 Chapel St 5-7-11-12-13-18-22-24-26- Newton 58 Mass 29-30-32-34-37-42-55 Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass 6	Bases       5         Bellows       6         Bulbs       7         Button stems       8         Caps       9         Cathode ray, deflection plates       10         Cathode ray, electrodes       11         Cathodes       13         Cavities       14         Ceramic parts       15         Coatings, CRT       16         Cones, Metal       17         Faceplates, CRT       18         Focusing magnets       19         Fused quartz parts       20         Getters       21         Grid frames       22         Grids       23         Heat dissipators       24         Ion traps       25         Magnets, permanent       26         Masks, aperture       27         Masks, picture tube       28         Metal shells       29         Mica parts       30
Hempstead Toke & Lucille Ave Franklin Square LI NY  Geisler Labs P O Box 252 Menlo Park Calif General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY  General Electric Co Electric Components Div 1 River Rd 13-14-16-17-18-20-22-24 Schenectady 5 25-26-27-30-32-33-34-35 NY General Electric Co Ltd of England 80 Shore Rd Fort Washington NY 1-2-3-5-40-41-42-45 General Electric Co Ltd of England 80 Shore Rd Fort Washington NY 1-2-3-3-40-41-42-45 General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wisc 12-25-46 Gordos Corp 250 Glenwood Ave Bloomfield NJ 1-2-0-25-44 Hanovia Chemical & Mfg Co 100 Chestnut St Newark 5 NJ 144 Hanson-Gorrill-Brian 85 Hazel St Glen Cove NY Hill & Co E Vernon P O Box 189 Lake Geneva Wisc 30 Huggins Labs Inc 711 Hamilton Ave Menlo Park Calif 2-39 Hughes Aircraft Co Florence & Teale Sts Culver City Calif 30-39 Hughes Products Hughes Aircraft Co 5340 W 104 St Int'l Airport Sta Los Angeles 45 Calif 2-5-30-39 Hupp Electronics Co Div Hupp Corp 743 Circle Ave Forest Park Ill 20 Industrial Tubes Inc	Penta Laboratories Inc  312 N Nopal St Santa Barbara Calif 22-27-30-34-38-39 Philco Coro Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa 24-42 Philco Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa 5 Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY 12-28-46 Photobell Co 43 Vesey St New York 7 NY 20 Photo Crystals Inc 15 S 1 St Geneva Ill 20 Polarad Electronics Corp 43-20 34 St Long Island City 1 NY 16 Pye Canada Ltd 82 Northline Rd Toronto 16 Ont Canada 8-33-41 "Q" Glass Co 470 Broad St Bloomfield NJ 6-12-14-17-29-30-34-39-46 Radio Corp of America 415 S 5 st 5-7-9-16-17-18-20-22-23-24-25-26-27 Harrison NJ 28-30-33-34-37-38-39-40-41-42-45 Raytheon Mfg Co Receiving & Cathode Ray Tube Operations 55 Chapel St 5-7-11-12-13-18-22-24-26- Newton 58 Mass 29-30-32-34-37-42-45 Raytheon Mfg Co Caronic Sales Foundry Ave Waltham Mass 6 Raytheon Mfg Co Microwave & Power Tube Operations Foundry Ave Waltham Mass 2-16-17-22-25-27-39	Bases       5         Bellows       6         Bulbs       7         Button stems       8         Caps       9         Cathode ray, deflection plates       10         Cathode ray, electron guns       12         Cathodes       13         Cavities       14         Ceramic parts       15         Coatings, CRT       16         Cones, Metal       17         Faceplates, CRT       18         Focusing magnets       19         Fused quartz parts       20         Getters       21         Grid frames       22         Grids       23         Heat dissipators       24         Hon traps       25         Magnets, permanent       26         Masks, aperture       27         Masks, picture tube       28         Metal shells       29         Mica parts       30         Picture tube revitalizers       31
Hempstead Toke & Lucille Ave Franklin Square LI NY  Geisler Labs P O Box 252 Menlo Park Calif 2-39 General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY  General Electric Co Electric Components Div 1-2-3-5-6-7-9-11 1 River Rd 13-14-16-17-18-20-22-24 Schenectady 5 NY 37-38-39-40-41-42-45 Schenectady 5 NY 37-38-39-40-41-42-45 General Electric Co Ltd of England 80 Shore Rd 5-17-18-19-22-24 General Electric Co Ltd of England 80 Shore Rd Fort Washington NY 26-27-30-37-38-45 General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wisc 12-25-46 Gordos Corp 250 Glenwood Ave Bloomfield NJ 4-20-25-44 Hanovia Chemical & Mfg Co 100 Chestnut St Newark 5 NJ 44 Hanson-Gorrill-Brian 85 Hazel St Glen Cove NY 30 Hill & Co E Vernon P O Box 189 Lake Geneva Wisc 30 Huggins Labs Inc 711 Hamilton Ave Menlo Park Calif 2-39 Hughes Products Hughes Aircraft Co Florence & Teale Sts Culver City Calif 30-39 Hughes Products Hughes Aircraft Co 5340 W 104 St Int'l Airport Sta Los Angeles 45 Calif 2-5-30-39 Hupp Electronics Co Div Hupp Corp 743 Circle Ave Forest Park Ill 20	Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif Philco Coro Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa Philco Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa Philos Electronics Inc 750 S Fulton Ave Mt Vernon NY 12-28-46 Photobell Co 43 Vesey St New York 7 NY 20 Photo Crystals Inc 15 S 1 St Geneva Ill 20 Plolarad Electronics Corp 43-20 34 St Long Island City 1 NY 16 Pye Canada Ltd 82 Northline Rd Toronto 16 Ont Canada 8-33-41 "Q" Glass Co 470 Broad St Bloomfield NJ 6-12-14-17-29-30-34-39-46 Radio Corp of America 415 S 5 St 5-7-9-16-17-18-20-22-23-24-25-26-27 Harrison NJ 28-30-33-34-37-38-39-40-41-42-45 Raytheon Mfg Co Receiving & Cathode Ray Tube Operations 55 Chapel St 5-7-11-12-13-18-22-24-26- Newton 58 Mass 29-30-32-34-37-42-55 Raytheon Mfg Co Ceramic Sales Foundry Ave Philadelphia 34 Pa 24-42 Philosoft	Bases       5         Bellows       6         Bulbs       7         Button stems       8         Caps       9         Cathode ray, deflection plates       10         Cathode ray, electrodes       11         Cathodes       13         Cavities       14         Ceramic parts       15         Coatings, CRT       16         Cones, Metal       17         Faceplates, CRT       18         Focusing magnets       19         Fused quartz parts       20         Getters       21         Grid frames       22         Grids       23         Heat dissipators       24         Ion traps       25         Magnets, permanent       26         Masks, aperture       27         Masks, picture tube       28         Metal shells       29         Mica parts       30

Stamped parts
Stamped parts
Tube seal leads 36
Tube shields
Water jackets
Wire parts 40
Accurate Electronics Corp 169 S Abbe Rd W Elyria Ohio 5
Accurate Eng'g Co 2005 Blue Island Ave Chicago 8 Ill 7
Accurate Spring Mfg Co
Accurate Spring Mfg Co 3811 W Lake St Chicago 24 Ill 34 Acheson Colloids Co
1635 Washington Ave Port Huron Mich 16 Advanced Vacuum Products Inc 480 Fairfield Ave Stamford Conn 15
1 Central Ave W Orange NJ 19-26 Air Reduction Sales Co Div Air Reduction Co
Aerovox Corp Crowley Div 1 Central Ave W Orange NJ 19-26 Air Reduction Sales Co Div Air Reduction Co 150 E 42 St New York 17 NY 33 Air Transport Mfg Co 1114 N Sycamore Ave Los Apreles 38 Calif
Alden Products Co 123A N Main St Brockton Mass 1-9
Aloe Scientific 5655 Kingsbury Blvd St Louis 12 Mo 2-3
Alpha Metals Inc 56 Water St Jersey City 4 NJ 3
56 Water St Jersey City 4 NJ 3 Aluminum Co of America Alcoa Bldg Pittsburgh 19 Pa 3
Amerac Inc 116 Topsfield Rd Wenham Mass 14
American Lava Corp Subs Minn Mining & Mfg Cherokee Blvd & Mfrs Rd
Chattanooga 5 Tenn 5-15-34-38 American Metal Co
61 Broadway New York 6 NY 3 American Mica Insulation Co
235 Parker Ave Manasquan NJ 30 American Mica Radio Corp
235 Parker Ave Manasquan NJ 30 American Oxygen Service Corp 600 Essex St Harrison NJ 33
Anton Electronic Labs 1226 Flushing Ave Brooklyn 6 NY Arnold Eng'g Co P O Box G Marengo Ill 19-26 Art Wire & Stamping Co 227 High St Newark 2 NJ Abordil Schwarzskir Miss Co
1226 Flushing Ave Brooklyn 6 NY 33 Arnold Eng'g Co P O Box G Marengo III 19-26
Art Wire & Stamping Co 227 High St Newark 2 NJ 40
Asheville-Schoonmaker Mica Co
900 Jefferson Ave Newport News Va 30 Associated Eng'g & Mfg Corp 210 Stonehouse Rd Glen Ridge NJ 5-12-14-40
Associated Production Co
162 N Clinton St Chicago 6 Ill 34 Atlantic & Pacific Wire & Cable Co 112-01 Northern Blvd E Elmhurst LI NY 40
Atlas E-E Corp
44 Prospect St wodurn Mass 37-38 Audiogersh Corp 514 Brondway New York 12 NY Augat Bros 33 Perry Ave Attleboro Mass 37 Baker & Co 113 Astor St Newark 2 NJ Barker Sales Co
Augat Bros 33 Perry Ave Attleboro Mass 37 Baker & Co 113 Astor St Newark 2 NJ 32
Barker Sales Co 996 Edgewater Ave Ridgefield NJ 26
Bead Chain Mfg Co 110 Mountain Grove St
Bead Chain Mfg Co 110 Mountain Grove St Bridgeport 5 Conn Belfab Corp 11 Ramah Circle Agawam Mass 6 Belmont Smelting & Refining Works 330 Belmont Ave Brooklyn 7 NY 3-13 Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich 6
Belmont Smelting & Refining Works 330 Belmont Ave Brooklyn 7 NY 3-13
Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich
Bios Labs Inc 17 W 60 St New York 23 NY 3-13
Birnbach Radio Co 145 Hudson St New York 13 NY 15-28
Birtcher Corp Industrial Div
Black Light Corp of America 5114 Walnut Grove Ave
San Gabriel Calif 20 Boonton Molding Co
326 Myrtle Ave Boonton NJ 6
Bram Chemical Co Metals & Minerals Div 820 65 Ave Philadelphia 26 Pa 3-21
Brand & Co William 41 North St Willimantic Conn 38
Briggs Associates 10 DeKalb St Norristown Pa 21
Bristol Co P O Box 1790 EITT Waterbury 20 Conn 6
Brooklyn Paint & Varnish Co
Brooks & Perkins Inc 1950 W Fort St Detroit 16 Mich 17-24 Buckbee Mears Co
Buckbee Mears Co Toni Bldg St Paul 1 Minn 28
Cambridge Thermionic Corp
445 Concord Ave Cambridge 38 Mass 15 Carborundum Metals Co
Div Carborundum Co P O Box 32 Akron NY 21
Centralab Div Glove Union Inc
Central Electronics Inc 1247 W Belmont Ave Chicago 13 Ill 31
Century Plating Co 229 Ferris Ave White Plains NY 32

Chicago Gasket Co 1271 W North Ave.Chicago 22 Ill	6
Chicago Miniature Lamp Works	7
1271 W North Ave. Chicago 22 III Chicago Miniature Lamp Works 1500 N Ogden Ave Chicago 10 III Cinch Mfg Corp	
1026 S Homan Ave Chicago 24 Ill Clowes Ceramic Corp	37
3711 Calhoun Ave Chattanooga 7 Tenn	15
3711 Calhoun Ave Chattanooga 7 Tenn Communication Accessories Co 110 St & 71 Hy Hickman Mills Mo Constantin & Co L L Route 46 Lodi NJ Continental-Diamond Fibre Corp	37
Constantin & Co L L Route 46 Lodi NJ	32
Continental-Diamond Fibre Corp Newark Dela	30
Cook Electric Co	15
2700 Southport Ave Chicago 14 Ill Corning Glass Works Corning NY	7
Crane Packing Co 6400 Oakton St Morton Grove Ill	6
3701 Ravenswood Ave Chicago 13 Ill Crucible Steel Co of America Henry W Oliver Bldg	28
Henry W Oliver Bldg	o.c
Dale Boisen Co	-26
9998 Nohraska Ave Santa Monica Calli	32
Dallons Labs 5066 Santa Monica Blvd	
Los Angeles 29 Calif	20
Darco Industries Inc Gyro Dynamics Div 2151 E Rosecrans Ave El Segundo Calif	6
Davis-K-Products Co 135 W 29 St New York 1 NY	32
Defiance Printed Circuit Corp	
Moulton & Munroe Sts Georgetown Mass	32
Delta Chemical Works	-13
Deltime Inc	.19
608 Fayette Ave Mamaroneck NY	6
Diamonite Products Mfg Co 217 4 St NE Canton 2 Ohio	15
217 4 St NE Canton 2 Ohio Dixon Crucible Co Joseph	16
167 Wayne St Jersey City 3 NJ Du-Co Ceramics Co	
Box 278 Saxonburg Pa Du Mont Labs Inc Allen B	15
760 Bloomfield Ave Clifton NJ	1
Elco Corp M St below Erie Ave Philadelphia 24 Pa	34
Electrical Refractories Co	
E Clark St E Palestine Ohio Electrical Specialty Co	15
158 11 St San Francisco 3 Calif 15- Electro Eng'g Works	30
Electro Eng'g Works 401 Preda St San Leandro Calif	19
401 Preda St San Leandro Calif Electro Impulse Lab Inc	
208 River St Red Bank NJ Electronic Parts Mfg Co	24
508 25 St Union City NJ	36
Ellis & Sons George D 4028 N American St	
Philadelphia 40 Pa Elm Labs	37
Elm Labs 10 Washington Ave	_
Hastings-on-Hudson NY Elzee Metal Products Co	5
775 39 St Brooklyn 32 NY 5-17-29- Emerson Plastics Corp	.31
Seabury Ave & Butler Pl Bronx 61 NY	6
Emerson-Sack-Warner Corp 85 Washington St	
Somerville 43 Mass 3-6-17-	-34
Enflo Corp Rte 38 at Airport Circle	
Pennsauken 11 NJ	
Engineering Co 27 Wright St Newark 5 NJ 5-9-20-26-36-	6
Erca Tool Die & Stamping Co	-40
19 Ash St Brooklyn 22 NY Eric Resistor Corp	
19 Ash St Brooklyn 22 NY Erie Resistor Corp 644 W 12 St Erie 6 Pa 15-	-10 34
19 Ash St Brooklyn 22 NY Erie Resistor Corp 644 W 12 St Erie 6 Pa Falstrom Co Falstrom Court Passaic NJ 17-	-40 34 -34
19 Ash St Brooklyn 22 NY Erie Resistor Corp 644 W 12 St Erie 6 Pa 15 Falstrom Co Falstrom Court Passaic NJ 17 Federal Telephone & Radio Co Div IT&T	-40 34 -34 -34
19 Ash St Brooklyn 22 NY Eric Resistor Corp 644 W 12 St Eric 6 Pa Falstrom Co Falstrom Court Passaic NJ Federal Telephone & Radio Co Div IT&T 100 Kinusland Rd Clifton NJ Federated Metals	-40 34 -34
19 Ash St Brooklyn 22 NY Erie Resistor Corp 644 W 12 St Erie 6 Pa 15- Falstrom Co Falstrom Court Passaic NJ 17- Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Federated Metals Div American Smelting & Refining Co	34 34 34 34 5
19 Ash St Brooklyn 22 NY Erie Resistor Corp 644 W 12 St Erie 6 Pa 15- Falstrom Co Falstrom Court Passaic NJ 17- Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 NY Finn & Co T R	-40 34 -34 -34
19 Ash St Brooklyn 22 NY Erie Resistor Corp 644 W 12 St Erie 6 Pa 15- Falstrom Co Falstrom Court Passaic NJ 17- Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 NY Finn & Co T R 200 Central Ave Hawthorne NJ	34 34 34 34 5
19 Ash St Brooklyn 22 NY Erie Resistor Corp 644 W 12 St Erie 6 Pa 15- Falstrom Co Falstrom Court Passaic NJ 17- Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 NY Finn & Co T R 200 Central Ave Hawthorne NJ Fish-Schurman Corp 70 Portman Rd New Rochelle NY 18-	34 34 34 5 3 5
19 Ash St Brooklyn 22 NY Erie Resistor Corp 644 W 12 St Erie 6 Pa 15. Falstrom Co Falstrom Court Passaic NJ 17. Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 NY Finn & Co T R 200 Central Ave Hawthorne NJ Fish-Schurman Corp 70 Portman Rd New Rochelle NY 18. Fluorocarbon Products Inc	34 34 34 5 3 5
19 Ash St Brooklyn 22 NY Erie Resistor Corp 644 W 12 St Erie 6 Pa 15 Falstrom Co Falstrom Court Passaic NJ 17 Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 NY Finn & Co T R 200 Central Ave Hawthorne NJ Fish-Schurman Corp 70 Portman Rd New Rochelle NY Fluorocarbon Products Inc Div US Gasket Co 602 N 10 St Camden 1 NJ	34 34 34 5 3 5
19 Ash St Brooklyn 22 NY Eric Resistor Corp 644 W 12 St Eric 6 Pa Falstrom Co Falstrom Court Passaic NJ 17- Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 NY Finn & Co T R 200 Central Ave Hawthorne NJ Fish-Schurman Corp 70 Portman Rd New Rochelle NY Fluorocarbon Products Inc Div US Gasket Co 602 N 10 St Camden 1 NJ Ford Radio & Mica Corp	34 34 34 5 3 5 6
19 Ash St Brooklyn 22 NY Eric Resistor Corp 644 W 12 St Eric 6 Pa Falstrom Co Falstrom Court Passaic NJ 17- Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 NY Finn & Co T R 200 Central Ave Hawthorne NJ Fish-Schurman Corp 70 Portman Rd New Rochelle NY Fluorocarbon Products Inc Div US Gasket Co 602 N 10 St Camden 1 NJ Ford Radio & Mica Corp	-40 34 -34 -34 5 3 5 -20 6 30
19 Ash St Brooklyn 22 NY Erie Resistor Corp 644 W 12 St Erie 6 Pa 15 Falstrom Co Falstrom Court Passaic NJ 17 Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 NY Finn & Co T R 200 Central Ave Hawthorne NJ Fish-Schurman Corp 70 Portman Rd New Rochelle NY Fluorocarbon Products Inc Div US Gasket Co 602 N 10 St Camden 1 NJ	34 34 34 5 3 5 6
19 Ash St Brooklyn 22 NY Erie Resistor Corp 644 W 12 St Erie 6 Pa Falstrom Co Falstrom Court Passaic NJ 17- Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 NY Finn & Co T R 200 Central Ave Hawthorne NJ Fish-Schurman Corp 70 Portman Rd New Rochelle NY Fluorocarbon Products Ine Div US Gasket Co 602 N 10 St Camden 1 NJ Ford Radio & Mica Corp 536 63 St Brooklyn 20 NY Frenchtown Porcelain Co Muirhead Ave Trenton 9 NJ General Ceramics Corp Crows Mill Rd Keasbey NJ	-40 34 -34 -34 5 3 5 -20 6 30
19 Ash St Brooklyn 22 NY Erie Resistor Corp 644 W 12 St Erie 6 Pa Falstrom Co Falstrom Court Passaic NJ Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 NY Finn & Co T R 200 Central Ave Hawthorne NJ Fish-Schurman Corp 70 Portman Rd New Rochelle NY Fluorocarbon Products Inc Div US Gasket Co 602 N 10 St Camden 1 NJ Ford Radio & Mica Corp 536 63 St Brooklyn 20 NY Frenchtown Porcelain Co Muirhead Ave Trenton 9 NJ General Ceramics Corp Crows Mill Rd Keasbey NJ General Electric Co Box 237 Roosevelt Park Annex	-40 34 -34 -34 5 3 5 -20 6 30 15
19 Ash St Brooklyn 22 NY Erie Resistor Corp 644 W 12 St Erie 6 Pa Falstrom Co Falstrom Court Passaic NJ Federal Telephone & Radio Co Div IT&T 100 Kinusland Rd Clifton NJ Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 NY Finn & Co T R 200 Central Ave Hawthorne NJ Fish-Schurman Corp 70 Portman Rd New Rochelle NY Fluorocarbon Products Inc Div US Gasket Co 602 N 10 St Camden 1 NJ Ford Radio & Mica Corp 536 63 St Brooklyn 20 NY Frenchtown Porcelain Co Muirhead Ave Trenton 9 NJ General Ceramics Corp Crows Mill Rd Keasbey NJ General Electric Co Box 237 Roosevelt Park Annex Detroit 32 Mich	-40 34 -34 -34 5 3 5 -20 6 30 15
19 Ash St Brooklyn 22 NY Erie Resistor Corp 644 W 12 St Erie 6 Pa Falstrom Co Falstrom Court Passaic NJ Federal Telephone & Radio Co Div IT&T 100 Kinusland Rd Clifton NJ Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 NY Finn & Co T R 200 Central Ave Hawthorne NJ Fish-Schurman Corp 70 Portman Rd New Rochelle NY Fluorocarbon Products Inc Div US Gasket Co 602 N 10 St Camden 1 NJ Ford Radio & Mica Corp 536 63 St Brooklyn 20 NY Frenchtown Porcelain Co Muirhead Ave Trenton 9 NJ General Ceramics Corp Crows Mill Rd Keasbey NJ General Electric Co Box 237 Roosevelt Park Annex Detroit 32 Mich	34 34 34 5 3 5 5 20 6 30 15
19 Ash St Brooklyn 22 NY Erie Resistor Corp 644 W 12 St Erie 6 Pa Falstrom Co Falstrom Court Passaic NJ Federal Telephone & Radio Co Div IT&T 100 Kinusland Rd Clifton NJ Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 NY Finn & Co T R 200 Central Ave Hawthorne NJ Fish-Schurman Corp 70 Portman Rd New Rochelle NY Fluorocarbon Products Inc Div US Gasket Co 602 N 10 St Camden 1 NJ Ford Radio & Mica Corp 536 63 St Brooklyn 20 NY Frenchtown Porcelain Co Muirhead Ave Trenton 9 NJ General Ceramics Corp Crows Mill Rd Keasbey NJ General Electric Co Box 237 Roosevelt Park Annex Detroit 32 Mich	34 34 34 5 3 5 5 20 6 30 15 15
19 Ash St Brooklyn 22 NY Erie Resistor Corp 644 W 12 St Erie 6 Pa Falstrom Co Falstrom Court Passaic NJ Federal Telephone & Radio Co Div IT&T 100 Kinusland Rd Clifton NJ Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 NY Finn & Co T R 200 Central Ave Hawthorne NJ Fish-Schurman Corp 70 Portman Rd New Rochelle NY Fluorocarbon Products Inc Div US Gasket Co 602 N 10 St Camden 1 NJ Ford Radio & Mica Corp 536 63 St Brooklyn 20 NY Frenchtown Porcelain Co Muirhead Ave Trenton 9 NJ General Ceramics Corp Crows Mill Rd Keasbey NJ General Electric Co Box 237 Roosevelt Park Annex Detroit 32 Mich General Electric Co Components Dept W Genesee St Auburn NY 3-10-15-22-23-34-35-37-38- General Electric Co Apparatus Sales Div	34 34 34 35 3 5 3 5 6 6 30 15 15 26
19 Ash St Brooklyn 22 NY Erie Resistor Corp 644 W 12 St Erie 6 Pa 15- Falstrom Co Falstrom Court Passaic NJ 17- Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 NY Finn & Co T R 200 Central Ave Hawthorne NJ Fish-Schurman Corp 70 Portman Rd New Rochelle NY 18- Fluorocarbon Products Inc Div US Gasket Co 602 N 10 St Camden 1 NJ Ford Radio & Mica Corp 536 63 St Brooklyn 20 NY Frenchtown Porcelain Co Muirhead Ave Trenton 9 NJ General Ceramics Corp Crows Mill Rd Keasbey NJ General Electric Co Box 237 Roosevelt Park Annex Detroit 32 Mich General Electric Co Specialty Electronic Components Dept W Genesee St Auburn NY 3-10-15-22-23-34-35-37-38- General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY	34 34 34 5 3 5 5 20 6 30 15 15
19 Ash St Brooklyn 22 NY Erie Resistor Corp 644 W 12 St Erie 6 Pa Falstrom Co Falstrom Court Passaic NJ Federal Telephone & Radio Co Div IT&T 100 Kinusland Rd Clifton NJ Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 NY Finn & Co T R 200 Central Ave Hawthorne NJ Fish-Schurman Corp 70 Portman Rd New Rochelle NY Fluorocarbon Products Inc Div US Gasket Co 602 N 10 St Camden 1 NJ Ford Radio & Mica Corp 536 63 St Brooklyn 20 NY Frenchtown Porcelain Co Muirhead Ave Trenton 9 NJ General Ceramics Corp Crows Mill Rd Keasbey NJ General Electric Co Box 237 Roosevelt Park Annex Detroit 32 Mich General Electric Co Components Dept W Genesee St Auburn NY 3-10-15-22-23-34-35-37-38- General Electric Co Apparatus Sales Div	34 34 34 35 3 5 3 5 6 6 30 15 15 26

Ol Chang Com	
Glaser-Steers Corp 20 Main St Belleville 9 NJ	25
Goat Co Fred 314 Dean St Brooklyn 17 NY 10-23-	29-37
Golden Co 1054 38 St Brooklyn 19 NY	34
Gordon Enterprises 5362 N Cahuenga Blvd N Hollywood Calif	6
Hallicrafters Co	24
4401 W 5 Ave Chicago 24 Ill Handy & Harman 82 Fulton St. New York 38 NY	3
82 Fulton St New York 38 NY Harper-Leader Inc 1046 S Main St Waterbury 20 Conn	32
Harwood Electronics Co 466 W Superior St Chicago 10 III	9
Heppner Mfg Co Box 608 Round Lake Ill Hi Condo Alloy Corp	25
Hi Grade Alloy Corp 1236 S Talman Chicago 8 111 Hunter Spring Co	3
1 Spring Ave Lansdale Pa Huse Liberty Mica Co	29-34
Peabody Industrial Center Peabody Mass	30
Indiana Steel Products Co Valparaiso Ind	15-26
iE Mfg 325 N Hoyne Ave Chicago 12 Ul	34-37
Insulation Mfrs Corp 565 W Washington Blvd Chicago 39 III	30-38
Insuline Corp of America 186 Granite St Manchester NH International Electronic Research Corp	5-9
International Electronic Research Corp 145 W Magnolia Blvd Burbank Calif	37
145 W Magnolia Blvd Burbank Calif Investment Casting Co 60 Brown Ave Springfield NJ	29
Isolantite Mfg Corp Warren Ave Stirling NJ James Plating Works Inc	5-15
720 W Schubert Ave Chicago 14 Ill	32
Jan Hardware Mfg Co 75 N 11 St Brooklyn 11 NY Johnson Co E F	37
Waseca Minn Johnson & Hoffman Mfg Corp	15
31 E 2 St Mineola NY Jones Electronics Hiram	3-34
2313 W Olive St Burbank Calif Kemet Co Div Union Carbide & Carbon	15 Corp
	21-23
Kine-Lab 3250 Kenilworth Ave Berwyn I	7 11 12
King Labs Inc 127 Solar St Syracuse 3 NY 21	-34-40
Kirchberger & Co M  83 W Forest Ave Englewood NJ  Kling Metal Spinning & Stamping Co	15
Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY Kost Products Co	29-34
2335 N Cicero Ave Chicago 39 Ill Krautter Electric Machine Co	25
360 Grove St Newark 3 NJ Krueger & Hudepohl	23
1041 Evans St Cincinnati 4 Ohio Laminated Sheet Products Corp	34
449 Neponset St Norwood Mass Lancaster Glass Corp Lancaster Ohio	34 7
Lapp Insulator Co Radio Specialties Div 24 Summer St LeRoy NY Leach & Garner Co Industrial Div	15
Leach & Garner Bldg Attleboro Mass Lee Chemical Corp Walter	3-32
Seabury Ave & Butler Pl Bronx 61 N Lithium Corp of America 2500 Rand Tower Minneapolis 2 Minn	Y 6
2500 Rand Tower Minneapolis 2 Minn Litton Industries of Calif 336 N Foothill Rd Beverly Hills Calif	15
Lorentzen Inc H K	
391 W Broadway New York 12 NY Louthan Mfg Co	5-29
Harvey Ave E Liverpool Ohio Mackay Inc A D	15 3-21
198 Broadway New York 38 NY Magnetics Inc Box 391 Butler Pa Malkin-Illion St	37
400 Coit St Irvington 11 NJ Mandel Chemical Products Co	5
207 Astor St Newark 5 NJ Mayfair Molded Products Corp	16
3700 N Rose St Franklin Park Ill Mel-Rain Corp	5
2100 E Fletcher Ave Indianapolis 3 In Merit Plating Co	
218 E 141 St New York 51 NY Metal Fabricators Corp 73 Pond St Waltham 54 Mass	32
	17-29 iv 3
Metais & Controls Corp General Plate D 48 Forest St Attleboro Mass Metal Specialty Products Corp 27-01 Brooklyn Queens Expressway W Woodside 77 NY Metal Textile Corp 647 E First Ave Roselle NJ Methode Mfg Corp 7447 W Wilson Ave Chicago 31 Ill Metpro Inc R I	٥
Woodside 77 NY Metal Textile Corp	34
647 E First Ave Roselle NJ Methode Mfg Corp	37
	37
230 Toronto Ave Providence 5 RI Metz Refining Co	38
369 Mulberry St Newark 2 NJ Micacraft Products Inc	32
701 McCarter Hwy Newark 5 NJ	30

Mil Case Corp 35-18 37 St Long Island City NY 29	Solar Mfg Corp 4553 Seville Ave Los Angeles 58 Calif 15	Airtron Inc 1101 W Elizabeth Ave Linden NJ
Millen Mfg Co James 150 Exchange St Malden 48 Mass 15-37	Spaulding Fibre Co 310 Wheeler St Tonawanda N Y 34	Allied Radio Corp
Minnesota Rubber & Gasket Co	Spincraft Inc	Altec Lansing Corp 1515 Manchester Ave Anaheim Calif 1-3
3630 Wooddale Ave St Louis Park Minneapolis 16 Minn 6	4122 W State St Milwaukee 8 Wisc 17 Spinform Inc	American Mica Radio Corp
Mitronics Inc 1290 Central Ave Hillside NJ 15-38	65 Mechanic St Attleboro Mass 29-34	235 Parker Ave Manasquan NJ American Microwave Corp
Model Eng'g & Mfg Inc	Spruce Pine Mica Co P O Box 456 Spruce Pine N C 30	11754 Vose St N Hollywood Calif Applied Research Inc
50 Frederick St Huntington Ind 4-5 Morganite Ino	Stackpole Carbon Co St Marys Pa 2-19-26 Standard Metals Corp	163-07 Depot Rd Flushing 58 NY
33-02 48 Ave Long Island City 1 NY 6 Murex Ltd Rainham Essex England 26	262 Broad St N Attleboro Mass 32	Barker Sales Co 996 Ridgewater Ave Ridgefield NJ
Mycalex Corp of America	Star Porcelain Co Muirhead Ave Trenton 9 N J 15	Barker & Williamson Inc Canal & Beever Sts Bristol Pa
National Carbon Co	Staver Co 41-51 N Saxon Ave	Rell Sound Systems Inc
Div Union Carbide & Carbon 30 E 42 St New York 17 NY 2	Bay Shore L I N Y 3-29-34	555 Marion Rd Columbus 7 Ohio 2- Bendix Aviation Corp
National Ceramic Co 500 Southard St Trenton 2 NJ 15	Steward Mfg Co D M Chattanooga Tenn 15-19-26	1104 Fisher Bldg Detroit 2 Mich Blonder-Tongue Laboratories
National Company Inc	Stewart Warner Electronics Div 1300 N Koster Ave Chicago 51 lll 2-3	9-25 Alling St Newark 2 NJ
61 Sherman St Malden 48 Mass 9 Nems-Clarke Inc	Stone City Machine & Tool Co	Bogen Co David P O Box 500 Paramus NJ 1-2-
919 Jesup-Blair Dr Silver Spring Md 37 Newcomb Spring Corp	1206 7 St Bedford Ind 9-29-34-35 Stupakoff Div Carborundum Co Latrobe Pa 15	Calbest Electronics Co 4801 Exposition Blvd
177 E Hawthorne Ave Valley Stream NY 40	Superior Electronics 208 Piaget Ave Clifton NJ 34	Los Angeles 16 Calif Canoga Corp
New England Tape Co 30 Tower St Hudson Mass 38	Superior Steatite & Ceramic Corp	5955 Sepulveda Blvd Van Nuys Calif
New Jersey Zinc Co 160 Front St New York 38 NY 3	91 W Forest Ave Englewood N J 15 Superior Tube Co Box 191 Norristown Pa 3-13	Cavitron Electron Oscillator Co Div Short Wave Plastic Forming
New Process Metals Inc 45 Mfrs Pl Newark 5 NJ 21	Sylvania Electric Products Inc 1740 Broadway	335 N Newport Blvd Newport Beach Calif Dalmo Victor Co Div Textron Inc
Norton Co	New York 19 NY 8-15-22-23-30-40	1515 Industrial Way Belmont Calif
1 New Bond St Worcester 6 Mass 15 Panellit Inc	Taylor Fibre Co Norristown Pa 34-38 Technic Inc 39 Snow St Providence 3 R I 32	DeMornay-Bonardi Corp 780 S Arroyo Pkwy Pasadena Calif 5-
7401 N Hamlin Ave Skokie Ill 6 Park Products Co	Teleradio Eng'g Corp Shannon & Barrett Sts	Diamond Antenna & Microwave Corp 7 North Ave Wakefield Mass 5-
6900 Wade Park Ave Cleveland 3 Ohio 25	Wilkes-Barre Pa 19-25-26	Douglas Microwave Co 252 E 3 St Mt Vernon NY
Paul & Beekman 1801 Courtland St Philadelphia 40 Pa 37	Thermal American Fused Quartz Co 18 Salem St Dover N J 20	Electronic Specialty Co
Penn Fibre & Specialty Co 2020 E Westmoreland St	Thermal Refractories Corp	5121 San Fernando Rd Los Angeles 39 Calif
Philadelphia 34 Pa 34 Perfection Mica Co Magnetic Shield Div	Thermo Materials Inc	Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich
20 N Wacker Dr Chicago 6 Ill 30-37	4040 Campbell Ave Menlo Park Calif 15 Thomas & Skinner Inc	Ercona Corp 551 5 Ave New York 17 NY Frequency Standards Inc
Permag Corp 214 Taaffe Pl Brooklyn 5 NY 26 Permonite Mfg Co	1120 E 23 St Indianapolis 7 Ind 19-26 Thomas & Sons William	P O Box 504 Asbury Park NJ
444 Lake Shore Dr Chicago 11 lll 5 Pettinos Inc Charles	Slocum Ave Ridgefield NJ 34	F-R Machine Works Inc Electronic & X-Ray Div 26-12 Borough Pl
1 E 42 St New York 17 NY 16	Thor Ceramics Inc 225 Belleville Ave Bloomfield NJ 15	Woodside 77 NY Gary Wells Co
PIC Design Corp 477 Atlantic Ave E Rockaway LI NY 6	Titchener & Co E H 67 Clinton St Binghamton N Y 5	361 Rockaway Ave Valley Stream NY
Pix Mfg Co 75 Hudson St Newark 3 NJ 4-5-34-40	United Mineral & Chemical Corp	General Bronze Corp 711 Stewart Ave Garden City NY NY Stables Div
Pomona Electronics Co 1126 W 5 Ave Pomona Calif	16 Hudson St New York 13 N Y 13-15-40 Universal Clay Products Co	General Instrument Corp F W Sickles Div Chicopee Mass 1-2-7-8-
Poray Inc 3369 W Grand Ave Chicago 51 III 28	1528 E 1 St Sandusky Ohio 15 Uniwave Inc 2 Marine St Farmingdale N Y 19	General Instrument Corp Automatic Mfg Div 65 Gouveurner St Newark NJ 7-8
Porcelain Products Inc	U S Stonéware Co Alite Div Orville Ohio 15	General RF Fittings Inc 702 Beacon St Boston 15 Mass
420 W Sandusky St Findlay Ohio 15 Precision Electroplating Co	Varflex Corp 511 W Court St Rome N Y 38 Victory Mfg Corp	Gries Reproducer Corp
519 S Oakley Blvd Chicago 12 Ill 32 Pyramid Screen Corp	1722 W Arcade Pl Chicago 12 Ill 5 Vidaire Electronics Mfg Corp	125 Beechwood Ave New Rochelle NY Harman-Kardon Inc.
181 Harvard St Brookline 46 Boston Mass 5-23-27	576 W Merrick Rd Lynbrook N Y 31 Vocalite Screen Corp	520 Main St Westbury LI NY 2 Heath Co
Quam Nichols Co	19 Debevoise Ave Roosevelt N Y	305 Territorial Rd Benton Harbor Mich 1 I-T-E Circuit Breaker Co
234 E Marquette Rd Chicago 37 III 25 Radio Corp of America	Volkert Stampings Inc 222-34 96 Ave Queens Village 29 N Y 34	Special Products Div 601 E Erie Ave
415 S 5 St Harrison N J 5-9-13-30-40 Raytheon Mfg Co Ceramic Sales	WacLine Inc 35 S St Clair St Dayton 2 Ohio 24	Philadelphia 34 Pa J-V-M Eng'g Co
Foundry Ave Waltham Mass 15-20	Waldom Electronics Inc	4633 S Lawndale Ave Lyons Ill 6 Leonard Electric Products Co
Raytheon Mfg Co Microwave & Power Tube Operations	Walsco Electronics Mfg Co	67 E 34 St Brooklyn 32 NY 1-2-8 Lieco Inc
Foundry Ave Waltham Mass 15 Reliance Mica Co	100 W Green St Rockford Ill 9-16 Welch Mfg Co W M	3610 Oceanside Rd Oceanside LI NY 5
341 39 St Brooklyn 32 N Y 30	1515 Sedgwick St Chicago 10 Ill 26 Western Gold & Platinum Co	McIntosh Laboratory Inc 2 Chambers St Binghamton NY
Remler Co 2101 Bryant St San Francisco Calif 4	525 Harbor Blvd Belmont Calif 3-15-20	Madison-Fielding Corp 863 Madison St Brooklyn 21 NY 2
Resistoflex Corp Woodland Rd Roseland N J 6 Revere Copper & Brass Inc	Westinghouse Electric Corp P O Box 868 Pittsburgh 30 Pa 26	Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind 8
230 Park Ave New York 17 NY 3	Westline Products Div Western Lithograph Co	Microlah Okner Pkwy Livingston NJ
Robertshaw-Fulton Controls Co Fulton Sylphon Div P O Box 400	600 E 2 St Los Angeles 54 Calif 38	Microwave Associates Inc Burlington Mass Miller Co J W
Knoxville 1 Tenn 6 Rollan Electric Co	Wildberg Bros Smelting & Refining Co 742 Market St San Francisco 2 Calif 32	5917 S Main St Los Angeles 3 Calif Narda Corp 160 Herricks Rd Mineola NY
8233 S Princeton Ave Chicago 20 111 37	Winder Aircraft Corp of Florida P O Box 2397 Drane Field	National Company Inc
Romac Products Co 48-01 25 Ave	Lakeland Fla 4-5-17-29-34-35 Wisconsin Porcelain Co	61 Sherman St Malden 48 Mass Nevada Air Products Co
Long Island City 3 N Y 3-21-23-34 Royal Communication Systems	121 Lincoln St Sun Prairie Wisc 15	P O Box 2472 Reno Nev Newcomb Audio Products Co
11462 Euclid Ave Cleveland 6 Ohio 11	Workman TV Inc 309 Queen Anne Rd Teaneck NJ 31	6824 Lexington Ave Los Angeles 38 Calif Oak Mfg Co
Rubbercraft Corp of Calif 1800 W 220 St Torrance Calif	Yale & Towne Powdered Metal Prods Div 9335 W Belmont Ave Franklin Park Ill 26	1260 N Clybourn Ave Chicago 10 III 7-8
Saxonburg Ceramics Saxonburg Pa 15 Schrack Electrical Sales Corp	Zenith Plastics Co 1600 W 135 St Gardena Calif 15	Pedersen Electronics 3667A Mt Diablo Blvd Lafayette Calif 1-2
45 W 81 St New York 24 N Y 15	99—TUNERS	Polarad Electronics Corp 43-20 34 St Long Island City 1 NY 5
Scovill Mfg Co 99 Mill St Waterbury 20 Conn 29-31		Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY
Shieldalloy Corp Newfield N J 21 Shrader Co	Tuners, AM 1 Tuners, AM-FM 2	Pratt Albert 114 W Lake View Ave
11623 S Broadway Los Angeles 61 Calif 26	Tuners, automatic	Milwaukee 17 Wisc 2
Sibley Co Bridge St Haddam Conn 32 Silicone Insulation Inc	Tuners, FM 4	Precise Development Corp 2 Neil Ct Oceanside NY
Seabury Ave & Butler Pl Bronx 61 N Y 6 Sinclair Mfg Co P O Box 243 Chartley Mass 4	Tuners, klystron 5	Production Research Corp Thornwood NY Pye Canada Ltd
Skiatron Electronics & TV Corp 180 Varick St New York 14 N Y 27	Tuners, microwave 6 Tuners, permeability 7	82 Northline Rd Toronto 16 Ont Canada 1-2-4-8
Slip Ring Co of America	Tuners, television 8	Pye Telecommunications Ltd
3612 W Jefferson Blvd Los Angeles 16 Calif 32	Tuners, UHF 9	Newmarket Rd Cambridge England Radio Corp of America
Smith Inc Herman H 2326 Nostrand Ave Brooklyn 10 N Y 37	Admittance Namco Corp Marine St Farmingdale LI NY 6	Commercial Electronic Products Camden 2 NJ
Solar Aircraft Co	Aircom Inc 1209 E Grand St Elizabeth NJ 6	Radio Industries Inc 5225 N Ravenswood Ave Chicago 25 Ill
2200 Pacific Hwy San Diego 12 Calif 6	1702 To Grand of Directory Ma 0	AND THE SHOOT TIVE CHICAGO IN THE

3515 W Addison St Chicago 18 III 2	Wire, metal shielded 45	Apex Wire & Cable Corp
Sage Labs Inc	Wire, molybdenum 46	237 37 St Brooklyn 32 NY 9 Apparatus Development Co
30 Guinan St Waltham 54 Mass 6 Sargent-Rayment Co	Wire, monel	115 Main St Wethersfield 9 Conn 19
4926 E 12 St Oakland 1 Calif 2	Wire, nickel-clad copper 48	Art Wire & Stamping Co 227 High St Newark 2 NJ 24-33
Scott Inc H H 385 Putnam Ave Cambridge 39 Mass 2-4	Wire, phosphor bronze 49	Artisan Electronics Corp
Sherwood Electronic Labs Inc	Wire, plastic insulated 50 Wire, platinum 51	171 Ridgedale Ave Norristown NJ 4 Armco Steel Corp
2802 W Cullom Ave Chicago 18 Ill 2-4 Sierra Electronic Corp	Wire reels 52	703 Curtis St Middletown Ohio 57
3885 Bohannon Dr Menlo Park Calif 6.0	Wire, resistance 53	Asco Wire & Cable Co 2 Burroughs St Bridgeport 8 Conn 29-31-41
Simpson Mfg Co Mark	Wire, shielded 54	Associated American 'trading Div
32-28 49 St Long Island City 3 NY 2 Sperry Gyroscope Co Div Sperry Rand Corp	Wire, silicon bronze 55	750 St Ann's Ave New York 56 NY 29-31-41 Associated Eng'g Corp
Great Neck NY Spivey Inc James S 5-6	Wire, silver plated 56	65 Kent St Brookline 46 Mass 19
4908 Hampden Lane Washington 14 DC 1	Wire, stainless steel 57	Associated Eng'g & Mfg Corp 210 Stonehouse Rd
Standard Coil Products Co 2085 N Hawthorne Ave	Wire, steel	Glen Ridge NJ 28-32-35-46-48-63
Melrose Park Ill 1-2-4-8-9	Wire, tantalum	Atlantic & Pacific Wire & Cable Co 112-01 Northern Blvd 21-22-23-24-25-27-28-29
Stromberg-Carlson	Wire, thermocouple 61	E Elmhurst 30-31-32-33-34-35-36-37-38-39-40
Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY	Wire, titanium	I.I 41-42-43-44-45-46-47-48-49-50-51-52-53 NY 54-55-56-57-58-59-60-61-62-63-64
Tarzian Inc Sarkes E Hillside Drive Bloomington Ind 8-9	Wire, tungsten 63	Atlas E-E Corp
Tech-Master Corp	Wire, zirconium 64	47 Prospect St Woburn Mass 16 Audio Sears Corp
75 Front St Brooklyn 1 NY 1-4-8-9 Technicraft Labs Inc	Accurate Electronics Corp	Shepard Hill Rd Roxbury NY 4
Thomaston-Waterbury Rd	169 S Abbe Rd W Elvria Ohio 16	Baker & Co 113 Astor St Newark 2 NJ 51-61 Barber-Colman Co Rock St Rockford III 61
Thomaston Conn Techtron Electronics Ltd	Accurate Insulated Wire Corp 25 Fox St 2-5-8-9-11-12-14-17-22	Beckman Instruments Inc
583 Gramatan Ave Mt Vernon NV 2-4	New Haven 1 Conn 29-30-34-38-39-50-54	Process Instruments Div 2500 Fullerton Rd Fullerton Calif 4
Telematic Industries Inc	Acme Wire Co 1255 Dixwell Ave	Belden Mfg Co
16 Howard Ave Brooklyn 7 NY 1-2-9 Trutone Electronics Inc	New Haven 14 Conn 29-31-34-41	4647 W Van Buren St 2-3-5-7-8-9-10-11 Chicago 44 12-13-15-17-21-29-30
812 N Highland Ave	Acromark Co 443 Morrell St Elizabeth 4 NJ 43	III 31-34-38-39-40-41-54
Valandy Electronics Corp	Adel Precision Products	Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich 8
61-35 166 St Flushing 68 NY Vectron Inc	Div General Metals Corp 1444 Washington Ave Huntingdon 4 W Va 16	Bergen Wire Rope Co
1611 Trapelo Rd Waltham 54 Mass 5-6	Advanced Electronics Inc	455 Gregg St Lodi NJ Bernco Engineering Corp
Voron & Co George	94 Silas Deane Hwy Rocky Hill 9 Conn 4 Aerolite Electronics Corp	2320 S Tibbs Ave Indianapolis 41 Ind 4
835 N 19 St Philadelphia 30 Pa 1-2-4 Warren Mfg Co	507 26 St Union City NJ 4-16-19	Bestcraft Products Co 626 Broadway New York 12 N Y 26
Newton Rd Littleton Mass 6	Aeronautical Electronics Inc P O Box 6527 Raleigh NC 37	Bethlehem Steel Co
Wheeler Labs Inc	Aero Research Instrument Co	Bethlehem Pa Bios Laus Inc
Woodwelding Inc	315 N Aberdeen St Chicago 7 Ill 25-61 Airborne Electronics Co	17 W 60 St 23-35-46-47-49-51-55-56
355 N Newport Blvd	6813 Troost Ave N Hollywood Calif Air Craft & Electronic Specialties	New York 23 N Y 57-58-59-61-62-63-64 Birnboch Radio Co 1-2-3-5-8-9-10-11-12-13-14
•	22 S Green St Brownsburg Ind 4-35	145 Hudson St 15-16-18-19-21-2:-28-29-31
100-WIRE & CABLE	Airflyte Electronics Co 535 Avenue A Bayonne NJ 4	New York 13 N Y 32-34-36-3;-38-39-41-49-50 53-54-55-60
Bus bar	Airtron Inc	Bishop & Co Platinum Works J Malvern Pa 28-48-51-61
Cable, antenna transmission,	1101 W Elizabeth Ave Linden NJ 4-5 A-K Mfg Co	Malvern Pa 28-48-51-61 Bliss Electronic Corp Box 366 Sussex N J 37
receiving 2	115 S Northwest Hwy 4-5-9-11-12-14-17-18-19	B & M Electric Corp
Cable, antenna transmission.	Alden Products Co 29-34-37-38-39-50-54	838 4 Ave Brooklyn 32 N Y 17-29-30 Booth Co Arthur E
transmitting	123A N Main St Brockton Mass 12-17-19-29-37-45	265 S Alexandria Ave Los Angeles 4 Calif 19
Cable, assemblies	Allegheny Ludlum Steel Corp	Boston Insulated Wire & Cable Co 65 Bay St Dorchester 25 Mass 5-9-12-29
Cable, coaxial 5	Oliver Bldg Pittsburgh 22 Pa 57 Allied Allegri Co	Brach Mfg Corp
Cable, flat woven 7	141 River Rd Nutley 10 NJ	200 Central Ave Newark 3 N J 4 Brady Co W H
	All-State Welding Alloys Co 249 Ferris Ave White Plains NY 21	727 W Glendale Ave Milwaukee 9 Wisc 43
Cable, insulated	Aloe Scientific	Bram Chemical Co Metals & Minerals Div 23-27-28-29-35
Cable, low capacitance 10	5655 Kingsbury Blvd St Louis 12 Mo 21-62-63-64	820 65 Ave 46-47-48-49-51
Cable, microphone 11	Alphaduct Wire & Cable Co	Philadelphia 26 Pa 56-59-62-63-64 Brand & Co William
Cable, shielded	25 Van Dyke Ave New Brunswick NJ 29-50 Alpha Metals Inc	41 North St 2-3-4-5-9-10-11-12-13-15
Capie, solid dielectric 13	56 Water St Jersey City 4 NJ 12-33-45	Willimantic Conn 29-30-34-37-38-39-50-54 Bridgeport Brass Co
Cable, telephone	Alpha Wire Corp 200 Varick St 5-7-8-9-10-11-12-14-27	30 Grand St Bridgeport 2 Conn 1
Clamps, cable	New York 14 29-30-31-34-38-39-41	Bristol Co P O Box 1790 EITT Waterbury 20 Conn 61
Cords, attachment	NY 45-49-50-54-55-56-60 Aluminum Co of America	Brys Instrument Co
Cords, resistance	Alcoa Bldg Pittsburgh 19 Pa 1-16-21	7026 6 Ave Brooklyn 9 N Y 53
lest Leads 19	American Communications Corp 280 Broadway	Buffalo Electronics Corp 37 Franklin St Buffalo 2 N Y 37
Transmission line	New York 17 NY 4-5-9-10-11-12-14-15-29	Buggie Inc H H
Wire, aluminum 21	American Electric Cable Co 181 Appleton St 2-3-5-7-8-9-10-11-12-13-14-15	P O Box 817 Toledo 1 Ohio 4 Bundy Electronics Corp
Wire, asbestos insulated	Holyoke Mass 29-34-37-38-39-50-54-56-60-61 American Leonic Mfg Co	171 Fabyan Pl Newark 12 N J 4
Wire, beryllium copper 23	3001 Walnut St 21-27-35-44-47	Burndy Corp Omanton Div Norwalk Conn 16
Wire, cat whiskers for transistors 24 Wire, ceramic insulated 25	Philadelphia 4 Pa 53-56-57-58	Cable Electric Products
Wire cloth 26	American Platinum Works 231 NJ RR Ave Newark 5 NJ 51	234 Daboll St Providence 7 R I 4-16-20-37 Cable & Wire Products Co
Wire, copper, bare 27	American Super-Temperatures Wires Inc	Chicago Rd Swanton Ohio 17-37
Wire, copper clad	Winooski Vt 37-38-39-41-54-60-61	Calcon Mfg Co 100 Oakland Ave
wire, copper, insulated 29	Amphenol Electronics Corp	Washington Pa 27-29-30-38-39-43-50
Wire, cut & stripped	Chicago 50 Ill 13-15-16-37-39-60	Cal-Connector Co 7360 Varna Ave N Hollywood Calif 16
wire, enameled	Anaconda Wire & Cable Co 25 Broadway 2-3-5-8-14-15-21	Caltron Products Co
Wire forms	New York 4 NY 27-29-31-38-41-50	3518 W Pico Blvd Los Angeles 19 Calif 19 Carborundum Metals Co
Wire, forms	Anchor Metal Co 966 Meeker Ave Brooklyn 22 NY 21-35-56	Div Carborundum Co P O Box 32
Wire, gold plated 35	Anchor Products Co	Akron N Y Carpenter Steel Co
Wire, guy 36	2712 W Montrose Ave Chicago 18 Ill 4-30-38 Anchor Specialty Mfg Co	Webb Wire Div 17 Liberty St
Wire, harnesses	Hollister Rd Teterboro NJ 4	New Brunswick N J 57 Carpenter Steel Co
Wire, high voltage 38		
Wire, hookup 39	Andrew Antenna Corp 606 Beech St Whitby Ontario Can 2-3-5-15	Front & Bern Sts Reading Pa 57
Mine III	606 Beech St Whitby Ontario Can 2-3-5-15 Andrew California Corp	Front & Bern Sts Reading Pa 57 C B C Electronics Co
Wire, litz 40	606 Beech St Whitby Ontario Can 2-3-5-15 Andrew California Corp 941 E Marylind Ave Claremont Calif 2-3-4-5-6-12-13-15	Front & Bern Sts Reading Pa 57 C B C Electronics Co 2601 N Howard St Philadelphia 33 Pa 4-9 Century Plating Co
Wire, litz	606 Beech St Whitby Ontario Can 2-3-5-15 Andrew California Corp 941 E Marylind Ave Claremont Calif 2-3-4-5-6-12-13-15	Front & Bern Sts Reading Pa 57 C B C Electronics Co 2601 N Howard St Philadelphia 33 Pa 4-9 Century Plating Co 229 Ferriss Ave White Plains N Y 44
Wire, litz 40	606 Beech St Whitby Ontario Can 2-3-5-15 Andrew California Corp 941 E Marylind Ave	Front & Bern Sts Reading Pa 57 C B C Electronics Co 2601 N Howard St Philadelphia 33 Pa 4-9 Century Plating Co

Chester Cable Corp 1000 Top St 5-7-8-9-10-11-12-13-14-15- Chester NY 29-30-34-37-38-39-43-45-	50-53-54
Chester Morton Electronics Corp	56-60
	17-19-37
865 N Sangamon St Chicago 22 Ill	19
Cinch Mfg Corp	
1026 S Homan Ave Chicago 24 Ill Clark Controller Co	16
1146 E 152 St Cleveland 10 Ohio	16
Clegg Labs Div Clegg Inc Ridgedale Ave Morristown N J	4
Coaxial Connector Co	4
Coaxial Connector Co 37 N 2 Ave Mt Vernon N Y	4-19
Cohn Corp Sigmund	
121 S Columbus Ave Mount Vernon N Y 21-24-31-32-35-44-	51-53-61
Colonial Alloys Co  Ridge Ave & Crawford St	
Ridge Ave & Crawford St	01 45 55
Philadelphia 29 Pa Columbia Wire & Supply Co 2-3-4-5-	21-47-57 7-8-9-10
2850 Irving Park Rd 11-12-13-14-	15-17-18
Chicago 18 III 21-22-27-28-29-30-	31-34-37
38-39-41-50- Commercial Radio Sound Corp	os-04-60
Commercial Radio Sound Corp 652 1 Ave New York 16 NY	5
Conn Telephone & Electric Corp 70 Brittania St Meriden Conn	
70 Brittania St Meriden Conn Consolidated Productions Inc	17
Broward Int'l Airport	
Ft Lauderdale Fla	4-37
Consolidated Wire & Associated 2-3	
Cos 1635 S Clinton St 10-11-12-13- Chicago 16 III 18-21-22-27-28-29-	
38-39-40-41-45-49-50-53-	
Continental Wire Corp	
Box 363 5-9-11- Wallingford Conn 29-34-38-	12-13-22 39-45-50
Co-operative Industries Inc	
100 Oakdale Rd Chester NJ	12
Copperweld Steel Co	
Wire and Cable Div Glassport Pa 9-14-27-28-	29-36-39
Cords Limited Div Essex Wire Corp 121 Dodge Ave DeKalb Ill	
121 Dodge Ave DeKalb III	17
Corning Glass Works Corning NY	34
Cornish Wire Co	04
50 Church St	07.00
New York 7 NY 2-9-11-12-15-17-29- Corona Eng'g Service	37-39-54
94-52 Corona Ave Elmhurst 73 NY	4
Crescent Co	-
20 Central Ave Pawtucket RI 9-11-14-29-	20 27 50
Crucible Steel Co of America	ov-a (~8U
Henry W Oliver Bldg	
Pittsburgh 22 Pa Crystalx-Westlake Corp	57-58-62
Lenni Rd Lenni Mills Pa	50
Dakota Eng'g Inc	
6641 Crenshaw Blvd Los Angeles 43 Dale Products Inc	Calif 16
Columbus Neb	4-7
Davies Co	
Route 10 Livingston NJ Decatur Electronic Industries Corp 203 Orinoco Dr Brightwaters LI NY Defiance Eng'g & Microwave Corp Beverly Airport Beverly Mass Delta Chemical Works	4
203 Orinoco Dr Brightwaters LI N	4-37
Defiance Eng'g & Microwave Corp	
Beverly Airport Beverly Mass	92 95 40
	A-1711-14-17
New York 23 NY	62-63-64
Deutsch Co	
7000 Avalon Blvd Los Angeles 3 Cali Diamond Antenna & Microwave Corp	f 16
7 North Ave Wakefield Mass	4
	-5-8-9-10
5315 N Ravenswood Ave 11-12- Chicago 40 III 34-38-39-	13-15-29 45-50-54
Dielectric Products Eng'g Co	***-***********************************
Raymond Me	5-15
Dint-Mco Inc Electronics Div	10
911 Broadway Kansas City Mo Dittmore-Freimuth Corp	19
2517 E Norwich St Milwaukee 7 Wis	4
Dossert Mfg Corp	
249 Huron St Brooklyn 62 NY	16
Doty Acoustical Electronic Labs 431 Broome St New York 13 NY	4-37
Oouglas Roesch Cable Div Hall-Scott 1	ne
2950 N Ontario St Burbank Calif 7-9-	10-12-37
D & M Products	
13144 W McNichols Rd Detroit 35 M Driver Co Wilhur B	ich 37
1875 McCarter Hwy	23-31-32
Newark 4 NJ 34-47-51-53-56-57-	
Dry Screen Process Inc	
1016 Madison Ave Pittsburgh 12 Pa	26-57
Duramark Inc P O Box 231 Port Washington NY	43
Dwyer Eng'g Co	40
Pine St Ext Nashua NH	5-37
Eagle Electric Mfg Co	
23-10 Bridge Plaza S Long Island City 1 NY	50
Eagle Electronics Corp	
P O Box 775 Meriden Conn 29-39-	-45-54-60
Eastern Smelting & Refining Corp 109 W Brookline St	35-50
Danta 10 Mana	51-56
Boston 18 Mass	*******

Eaton Mfg Co Reliance Div	
Massillon Ohio	7-37-47 55-58
Eisler Eng'g Co 750 S 13 St Newark 3 NJ 46-47	-48-63
Elco Corp	
M St below Erie Ave Philadelphia 24 P Electric Auto-Lite Co Wire & Cable Div	a 4-01
Port Huron Mich Electric Machinery Mfg Co 800 Central Ave Minneapolis 13 Minn	41
Electrical & Physical Instrument Corn	1
42-19 27 St Long Island City 1 NY	5
Electrical Specialty Co 158 11 St	-29-31
San Francisco 3 Calif 34-41-43 Electronic Assembly Co	3-53-60
5 Prescott St Roxbury 19 Mass	4
Electronic Designs Inc 28 School St Yonkers NY	19
Electronic Parts Mfg Co 508 25 St Union City NJ 46	6-48-63
28 School St Yonkers NY Electronic Parts Mfg Co 508 25 St Union City NJ 46 Electron Products Inc 430 N Halstead St Pasadena 8 Calif Elgin National Watch Co 107 National St Elgin III	4
Elgin National Watch Co	
107 National St Elgin III Elm Labs	61
Elm Labs 10 Washington Ave Hastings-on-Hudson NY	16
El-Tronics Inc	4
Penn Ave Mayfield Pa Elzee Metal Products Co	
775 39 St Brooklyn 32 NY Empire Electronics Co	16
166 River St Paterson 1 NJ Engineered Electronics Co	1-18-19
506 E 1 St Santa Ana Calif	4-37
Engineering Co 27 Wright St Newark 5 NJ 33-40-46	-48-63
Entron Inc	4
Entron Inc 4902 Lawrence St Bladensburg Md Essex Wire Corp 1601 Wall St Ft Wayne 6 Ind 21-27-29-31-37	-
Ft Wayne 6 Ind 21-27-29-31-37	7-39-41
Exacto Industries Inc 8730 Santa Monica Blvd	
Los Angeles 46 Calif	16
Fairbanks Wire Co 2287 Hollers Ave	
New York by IN1 29-34-30-39-40-41	-50-60
	5-59-63
Federal Cable Div  Royal Electric Corp  95 Grand Ave  Pawticket RI 22-29-30-39-5	5-6-7-8
	5-14-15 )-54-60
Federal Screw Products Inc 3917 N Kedzie Ave Chicago 18 Ill	16
First Electronics Corp	
THE THE TYPE A Destan 10 Mage 17	7 20 27
117 Blue Hill Ave Boston 19 Mass 17 Fisher Co R H	7-30-37
117 Blue Hill Ave Boston 19 Mass 17 Fisher Co R H	7-30-37 37
117 Blue Hill Ave Boston 19 Mass 17 Fisher Co R H	37
117 Blue Hill Ave Boston 19 Mass 17 Fisher Co R H 40 Gough St San Francisco 3 Calif Fluorocarbon Products Inc Div U S Gasket Co 602 N 10 St Camden 1 NJ Foote Minera: Co	2-13-15
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117 Blue Hill Ave Boston 19 Mass 17 Fisher Co R H 40 Gough St San Francisco 3 Calif Fluorocarbon Products Inc Div U S Gasket Co 602 N 10 St Camden 1 NJ Foote Mineral Co 18 W Chelton Ave Philadelphia 44 Pa Fort Wayne Metals Inc 3211 MacArthur Dr Ft Wayne 6 Ind Fretco Inc 406 N Cepic St Pittsburgh 13 Pa 2-5	37 2-13-15 64 4-2-57
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117 Blue Hill Ave Boston 19 Mass 17 Fisher Co R H 40 Gough St San Francisco 3 Calif Fluorocarbon Products Inc Div U S Gasket Co 602 N 10 St Camden 1 NJ Foote Mineral Co 18 W Chelton Ave Philadelphia 44 Pa Fort Wayne Metals Inc 3211 MacArthur Dr Ft Wayne 6 Ind Fretco Inc 406 N Craig St Pittsburgh 13 Pa 2-2 Gavitt Wire & Cable Co Central St Brookfield Mass 37-39-45-50 Gee-Lar Mfg Co 418 S Wyman St Rockford III General Cable Corp 2-3-5-6-8-5 420 Lexington Ave 33-14-15-21-22-27	37 2-13-15 64 4-2-57 3-15-20 4-29-30 0-54-61 17 9-11-12 7-28-29 8-54-60
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117 Blue Hill Ave Boston 19 Mass 17 Fisher Co R H 40 Gough St San Francisco 3 Calif Fluorocarbon Products Inc Div U S Gasket Co 602 N 10 St Camden 1 NJ Foote Mineral Co 18 W Chelton Ave Philadelphia 44 Pa Fort Wayne Metals Inc 3211 MacArthur Dr Ft Wayne 6 Ind Fretco Inc 406 N Craig St Pittsburgh 13 Pa 2-2 Gavitt Wire & Cable Co Central St 7-9-11-12-14 Brookfield Mass 37-39-45-50 Gee-Lar Mfg Co 418 S Wyman St Rockford III General Cable Corp 2-3-5-6-8-6 420 Lexington Ave 13-14-15-21-22-27 New York 17 NY 31-34-39-41-50-55 General Cement Mfg Co Div Textron Inc 400 S Wymann St Rockford III General Electric Co Construction Materials Div 14-17-22 12-55 Boston Ave 48-9 14-17-22 14-37-38 14-17-22 14-17-22 14-15-50-53	37 2-13-15 64 4-2-57 3-15-20 4-29-30 0-54-61 17 0-11-12 7-28-29 3-54-60 16 1-12-13 1-29-31 1-39-4
117 Blue Hill Ave Boston 19 Mass 17 Fisher Co R H 40 Gough St San Francisco 3 Calif Fluorocarbon Products Inc Div U S Gasket Co 602 N 10 St Camden 1 NJ Foote Minerai Co 18 W Chelton Ave Philadelphia 44 Pa Fort Wayne Metals Inc 3211 MacArthur Dr Ft Wayne 6 Ind Fretco Inc 406 N Craig St Pittsburgh 13 Pa 2-6 Gavitt Wire & Cable Co Central St Brookfield Mass 37-39-45-50 Gee-Lar Mfg Co 418 S Wyman St Rockford III General Cable Corp 420 Lexington Ave 13-14-15-21-22-27 New York 17 NY 31-34-39-41-50-55 General Cement Mfg Co Div Textron Inc 400 S Wymann St Rockford III General Electric Co Construction Materials Div 14-17-22	37 64 4-2-57 3-15-20 4-29-30 3-54-61 17 9-11-12 7-28-29 3-54-60 16 1-12-13 1-29-31 1-29-31 1-39-41 1-54-60
117 Blue Hill Ave Boston 19 Mass 17 Fisher Co R H 40 Gough St San Francisco 3 Calif Fluorocarbon Products Inc Div U S Gasket Co 602 N 10 St Camden 1 NJ Foote Mineral Co 18 W Chelton Ave Philadelphia 44 Pa Fort Wayne Metals Inc 3211 MacArthur Dr Ft Wayne 6 Ind Fretco Inc 406 N Craig St Pittsburgh 13 Pa 2-5 Gavitt Wire & Cable Co Central St Brookfield Mass 37-39-45-50 General Cable Corp 420 Lexington Ave New York 17 NY 31-34-39-41-50-55 General Cement Mfg Co Div Textron Inc 400 S Wymann St Rockford III General Electric Co Construction Materials Div 1285 Boston Ave Bridgeport 2 Conn General Electric Co Lamp Wire & Phosphors Dent 1331 Chardon Rd Cleveland 17 Ohio	37 2-13-15 64 4-2-57 3-15-20 4-29-30 0-54-61 17 0-11-12 7-28-29 3-54-60 16 1-12-13 1-29-31 1-39-4
117 Blue Hill Ave Boston 19 Mass 17 Fisher Co R H 40 Gough St San Francisco 3 Calif Fluorocarbon Products Inc Div U S Gasket Co 602 N 10 St Camden 1 NJ Foote Minerai Co 18 W Chelton Ave Philadelphia 44 Pa Fort Wayne Metals Inc 3211 MacArthur Dr Ft Wayne 6 Ind Fretco Inc 406 N Craig St Pittsburgh 13 Pa 2-3 Gavitt Wire & Cable Co Central St Brookfield Mass 37-39-45-56 Gee-Lar Mfg Co 418 S Wyman St Rockford III General Cable Corp 420 Lexington Ave New York 17 NY General Cement Mfg Co Div Textron Inc 400 S Wymann St Rockford III General Electric Co Construction Materials Div 14-17-22 1285 Boston Ave Bridgeport 2 Conn General Electric Co Construction Materials Div 4-8-9 General Electric Co Construction Materials Div 4-8-9 Bridgeport 2 Conn General Electric Co Lamp Wire 8 Phosphors Dept 1331 Chardon Rd Cleveland 17 Ohio General Electric Co Specialty Electronic Components Dept W Genesee St	37 64 4-2-57 3-15-20 4-29-30 3-54-61 17 9-11-12 7-28-29 3-54-60 16 1-12-13 1-29-31 1-29-31 1-39-41 1-54-60 46-63
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117 Blue Hill Ave Boston 19 Mass 17 Fisher Co R H 40 Gough St San Francisco 3 Calif Fluorocarbon Products Inc Div U S Gasket Co 602 N 10 St Camden 1 NJ Foote Minerai Co 18 W Chelton Ave Philadelphia 44 Pa Fort Wayne Metals Inc 3211 MacArthur Dr Ft Wayne 6 Ind Fretco Inc 406 N Craig St Pittsburgh 13 Pa 2-3 Gavitt Wire & Cable Co Central St Brookfield Mass 37-39-45-56 Gee-Lar Mfg Co 418 S Wyman St Rockford III General Cable Corp 420 Lexington Ave 400 S Wymann St Rockford III General Cement Mfg Co Div Textron Inc 400 S Wymann St Rockford III General Electric Co Construction Materials Div Textron Inc 400 S Wymann St Rockford III General Electric Co Construction Materials Div 1235 Boston Ave 34-37-38 Bridgeport 2 Conn General Electric Co Lamp Wire & Phosphors Dent 1331 Chardon Rd Cleveland 17 Ohio General Electric Co Specialty Electronic Components Dept W Genesee St Auburn NY General Findings & Supply Co Industrial Div Leach & Garner Bldg Attleboro Mass General Insulated Wire Works	37 64 4-2-57 3-15-20 4-29-30 0-54-61 17 1-11-12 7-28-29 3-54-60 16 1-12-13 1-29-31 1-39-4
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117 Blue Hill Ave Boston 19 Mass 17 Fisher Co R H 40 Gough St San Francisco 3 Calif Fluorocarbon Products Inc Div U S Gasket Co 602 N 10 St Camden 1 NJ Foote Minerai Co 18 W Chelton Ave Philadelphia 44 Pa Fort Wayne Metals Inc 3211 MacArthur Dr Ft Wayne 6 Ind Fretco Inc 406 N Craig St Pittsburgh 13 Pa 2-3 Gavitt Wire & Cable Co Central St Brookfeld Mass 37-39-45-56 Gee-Lar Mfg Co 418 S Wyman St Rockford Ill General Cable Corp 420 Lexington Ave 13-14-15-21-22-27 New York 17 NY 31-34-39-41-50-53 General Electric Co Construction Materials Div Textron Inc 400 S Wymann St Rockford Ill General Electric Co Construction Materials Div 1285 Boston Ave 34-37-38 Bridgeport 2 Conn General Electric Co Lamp Wire & Phosphors Dent 1331 Chardon Rd Cleveland 17 Ohio General Electric Co Specialty Electronic Components Dept W Genesee St Auburn NY General Findings & Supply Co Industrial Div Leach & Garner Bldg Attleboro Mass General Insulated Wire Works 69 Gordon Ave Providence 5 RI 275 Massachusetts Ave	37 2-13-15 64 4-2-57 3-15-20 4-29-30 0-54-61 17 1-11-12 7-28-29 3-54-60 16 1-12-13 1-29-31 1-39-4
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1101 A WESTERN AVE 10-14-10-27-29-3		Chicago 47 III	34-38-39-54-56-6

67 34 St Brooklyn 32 NY	10068 Franklyn Ave Franklyn Park III 4	7 Intervale St 21-23-25-27-31-32
Lewis Eng'g Co	Permoflux Products Co	White Plains NY 35-41-49-51-53-63 Seismograph Service Corp
339 Church St Naugatuck Conn 9-22-29-34-53-60-61	4101 San Fernando Rd Glendale 4 Calif 11 Permo Inc	6200 E 41 St Tulsa 1 Okla
Linlar Inc	6415 N Ravenswood Ave Chicago 26 Ill 42	Semrow Products Co
4101 San Fernando Rd Glendale 4 Calif 4 Lysco Mfg Co	Permonite Mfg Co 444 Lake Shore Dr Chicago 11 III 4-37-39	4317 N Ravenswood Ave Chicago 13 Ill 20 Sensory Inc
1401 Clinton St Hoboken NJ 19	Peschel Electronics Inc	Pleasantville Rd New Vernon NJ 37
Mackay Inc A D	13 Garden St New Rochelle NY 4	Sequoia Wire
198 Broadway 21-23-24-27-32-46-47-49 New York 38 NY 51-57-59-62-63-64	Petroff Corp Peter A 127 Water St New York 5 NY 4	2201 Bay Rd 5-9-10-11-12-1- Redwood City Calif 29-39-50-54-60
Mallory & Co Inc P R	Phalo Plastics Corp	Seymour Mfg Co
42 S Gray St Indianapolis 6 Ind 23-46-49-62	25 Foston St 2-1-5-9-11-12-13-14	15 Franklin St Seymour Conn 49
Markwik Mfg Co 31 Sexton Rd Plainview LI NY 43	Worcester 8 Mass 15-17-36-37-38-50-54	Simplex Wire & Cable Co 2-3-5-9-10-11 1203 Fidelity-Phila Trust 12-13-14-15-29
Mayfair Molded Products Corp	Phaostrom Instrument & Electronic Co 151 Pasadena Ave S Pasadena Calif 19	1203 Fidelity-Phila Trust 12-13-14-15-29 Bldg Philadelphia 9 Pa 38-39-50-54-60-69
3700 N Rose St Franklin Park Ill 4	Phelps Dodge Copper Products Corp	Simpson Electric Co
Measurement Eng'g Ltd 232 John St Arnprior Ontario Can 4	Inca Mfg Div	5200 W Kinzie St Chicago 44 Ill 19
Mercury Eng'g Corp	Ft Wayne Ind 1-9-27-29-31-41 Phelps Dodge Copper Corp	Sittler Corp 18 N Ada St Chicago 7 III 4-19-3'
339 E Cottage Pl York Pa 30-37	300 Park Ave 1-2-3-5-9-12-13-14-22-27-29	Slepian & Co Arthur
Metals & Controls Corp General Plate Div 48 Forest St Attleboro Mass 29-35-44-51-56	New York 22 NY 31-34-38-41-45-50-54	2 Burroughs St Bridgeport Conn 31-40-4
Metal Specialty Products Corp	Philadelphia Insulated Wire 4-9-10-11-12 Co 200 N 3 St 13-29-30-31-34-37	Smith Inc Herman H 2326 Nostrand Ave Brooklyn 10 NY 16-17-19
27-01 Brooklyn Queens Expressway W Woodside 77 NY 16	Philadelphia 43 Pa 39-40-41-50-54-60	South River Metal Prods Co
Metal Textile Corp	Pix Mfg Co	377 Turnpike South River NJ 21-30
647 E First Ave Roselle NJ 26	75 Hudson St Newark 3 NJ 33 Plastic Wire & Cable Corp	Spaulding Fibre Co 310 Wheeler St Tonawanda NY
Micarta Fabricators Inc 5324 N Ravenswood Ave Chicago 10 Ill 37	Box 486 5-8-9-10-11-12-14	Spencer-Kennedy Labs Inc
Microdot Inc	Jewett City Conn 29-37-38-39-50-54	1320 Soldiers Field Rd Boston 35 Mass 2-5 Sprague Electric Co
220 Pasadena Ave S Pasadena Calif 4-5-10 Mid-West Spring Mfg Co	Plastoid Corp 42-61 24 St 2-3-5-9-11-12-14	Marshall St North Adams Mass 25-41-60
Etna St Mentone Ind 33	Long Island City 1 NY 15-22-29-39-50-60	Stamford Metal Specialty Co
Millen Mfg Co James	Precise Development Corp	427 W Broadway New York 12 NY Standards Metals Corp
150 Exchange St Malden 48 Mass 6 Minn-Honeywell Regulator Co Aero Div	2 Neil Ct Oceanside NY 19 Precision Apparatus Co	262 Broad St N Attleboro Mass 28-35-39-44-50
1433 Stinson Blvd Minneapolis Minn 23	70-31 84 St Glendale 27 Ll NY 19	Standard Wire & Cable Co 2-3-5-6-7-8-9-10-11 3440 Overland Ave 12-13-14-15-17-25
Minneapolis-Honeywell Regulator Co	Precision Tube Co	Los Angeles 34 Calif 25-27-28-29-30-31-33 39-40-41-47-48-49-50-51-53-54-55-56-57-60-6
Industrial Div Wayne & Windrim Aves Philadelphia 44 Pa 61	Church Rd & Wissahickon Ave North Wales Pa 3-9-10-12-45-54	39-40-41-47-48-49-50-51-53-54-55-56-57-60-6
Missileonics Inc	Pres Industrial Equipment Ltd	Star-A Electric Mfg Co 269 Meserole St Brooklyn 6 NY 1'
P O Box 716 Melbourne Fla 4 Modelectric Products Corp	Box 302 Putt Corners Rd N	Stone City Machine & Tool Co
Asbury Park NJ 4	New Paltz NY Prodelin Inc	1206 7 St Bedford Ind 16-35
Model Eng'g & Mfg Co	Prodelin Inc 307 Bergen Ave Kearny NJ 2-3-5-13	Superex Electronics Corp 4 Radford Pl Yonkers NY
50 Frederick St Huntington Ind 4 Modern Adhesives & Electronics Inc	Progress Electronics Co	Superior Insulated Wire Co
148 Greene St New York 12 NY 25-41	296 Broadway New York 7 NY 5	Route 9W
Mohawk Wire & Cable Corp	Radio City Products Co Centre & Glendale Sts Easton Pa 19	W Haverstraw NY 5-15-27-29-30-39-50-5 Surprenant Mfg Co
320 River St 2-5-8-9-10-11-12-13-14 Fitchburg Mass 15-29-30-39-45-50-54	Radio Corp of America Commercial	172 Sterling St 2-3-5-9-10-11-12-13-1
Motiograph Inc	Electronic Products Camden 2 NJ 12	Clinton Mass 15-29-38-39-50-54-66 Swift & Sons M
4441 W Lake St Chicago 24 III 4 Murex Ltd	Radix Wire Co 26260 Lakeland Blvd 2-8-9-11-12-15-22-28	10 Love Lane Hartford 1 Conn 4:
Rainham Essex England 46-59-63-64	Cleveland 32 Ohio 29-30-34-39-48-50-51	Sylvania Electric Products Inc 1740 Broadway 28-33-38-44-40
Mutual Electronic Industries Corp	Ram Electronics Inc 600 Industrial Ave Paramus NJ 60	1740 Broadway 28-33-38-44-46 New York 19 NY 48-56-57-58-65
85 Beechwood Ave New Rochelle NY 9-10-11-12-14-17	600 Industrial Ave Paramus NJ 60 Rea Magnet Wire Co E	Taffet Radio & TV Co
National Aircraft Corp	Pontiac St Ft Wayne Ind 27-29-31-41	27-05 Brooklyn-Queens Expressway W Woodside 77 NY 4-19
3411 Tulare Ave Burbank Calif 4	Reed & Reese Inc 717 N Lake Ave Pasadena 6 Calif 1-4	TA Mfg Corp
National Lock Washer Co 40 Hermon St Newark 5 NJ 58	717 N Lake Ave Pasadena 6 Calif 1-4 Reliable Spring & Wire Forms Co	4607 Alger St Los Angeles 39 Calif
National-Standard Co	3167 Fulton Rd Cleveland 9 Ohio 33	Techalloy Co Rains Pa 32-36-42-46-47-48-53-57-69
Niles Mich 21-26-28-42-44-47-48-57-58-62 National Tel-Tronics Corp	Rembar Co 147 Main St Dobbs Ferry NY 46-63-64	Techniques Inc
52 St Casimir Ave Yonkers NY 19	Rem-Cru Titanium Inc Midland Pa 62	52 Jackson Ave Hackensack NJ 9-13 Telechrome Mfg Corp
Naybor Laboratories Inc E V	Republic Steel Corp	28 Ranick Dr Amityville LI NY
2 Yennicock Ave Fort Washington NY 4 Nesor Alloy Products Co	Republic Bldg Cleveland 1 Ohio 57-58 Revere Copper & Brass Inc	Telectro Industries Corp
282 Halsey St 21-23-24-27-28-35-44-45-47	230 Park Ave New York 17 NY 1	34-18 37 St Long Island City 1 NY Telematic Industries Inc
Newark NJ 48-49-51-54-55-56-57-58 Network Mfg Corp	Revere Corp of America 4-5-9-10-12-22-29	16 Howard Ave Brooklyn 7 NY 4-19-3
213 W 5 St Bayonne NJ 4-19	Wallingford Conn 34-37-39-50-60-61 Rhodes & Sons Co M M	Teletronic Labs Inc 1835 W Rosecrans Ave Gardena Calif 37-4
Newark Wire Cloth Co	Box 627 Taunton Mass 16	Tenna Mfg Co
351 Verona Ave Newark 4 NJ 26 Newcomb Spring Corp	Richards Co Arklay S	7580 Garfield Blvd Cleveland 25 Ohio 2-
177 E Hawthorne Ave	35 Winchester St Newton Highlands 61 Mass 61	Tensolite Insulated Wire Co 198 Main St
Valley Stream NY 24-33	Newton Highlands 61 Mass 61 Riverside-Alloy Metal Div Porter Co H K	Tarrytown NY 4-5-7-8-9-10-12-13-15-29-39-4
New England Cable Co 22 Bridge St Concord NH 29 39	1 Pavilion Ave	Terris Div Consolidated Siphon Supply Co 22 Wooster St New York 13 NY 20
New England Electrical Works	Riverside NJ 23-47-48-49-57 Rockbestos Products Corp 5-9-10-12-13-15	Tevco Insulated Wire
365 Main St Lisbon NH 7-9-27-29-31-39-40-41-61	Rockbestos Products Corp 5-9-10-12-13-15 Nicoll & Canner Sts 22-25-29-34-38-39	108 E Prospect Ave
New England Tape Co	New Haven 4 Conn 41-45-50-54-60-61	Burbank Calif 2-5-9-11-12-29 Thermo Electric Co
30 Tower St Hudson Mass 37-39-50 Ney Co J M	Roebling's Sons Corp John A	109 5 St Saddle Brook NJ 6
P O Box 990 Hartford 1 Conn 51	640 S Broad St 21-22-27-29-31 Trenton 2 NJ 34-41-44-57-58	Times Wire & Cable Co 2-3-5-6-7-8-9-10 Aff Int'l Silver Co 11-12-13-14-15-20 358 Hall Ave 33-34-37-38-39-4
Nichols Wire & Aluminum Co	Rohn Mfg Co	358 Hall Ave 33-34-37-38-39-4
1725 Rockingham Rd Davenport Iowa 21-36 Noel Mfg Co	116 Limestone Bellevue Peoria 5 Ill 16 Rome Cable Corp 9-10-11-12-13-14-20-21	Wallingford Conn 45-48-50-54-56-66 Tinnerman Products Inc
3 W 18 St New York 11 NY 30	Ridge St Rome NY 27-29-34-38-39-41-50-54	Department 16 P O Box 6688
Nonotuck Mfg Co	Rosenau Harris & Co	Cleveland 1 Ohio
Holyoke Mass North American Philips Co Elmet Div	Ontario & I Sts	Titan Metal Mfg Co Bellefonte Pa 23
Lisbon Rd	Philadelphia 34 Pa 4-17-37 Rowe Industries	Titchener & Co E H
Lewiston Me 29-31-32-35-41-44-46-56-63 North Electric Co	1702 Wayne St Toledo 9 Ohio 4	67 Clinton St Binghamton NY 3:
553 S Market St Galion Ohio 4	Sanders Associates	Topp Industries Inc 5255 W 102 St Los Angeles 54 Calif
North Shore Nameplate Inc	95 Canal St Nashua NH 7 Santa Monica Bay Sheltered Workshop	Touch-Plate Mfg Corp
214-227 Northern Blvd Bayside 61 NY 43 Okonite Co	2521 5 St Santa Monica Calif 30-37-43	P O Box 1970 Long Beach 1 Calif 29 Transdyne Corp
220 Passaic St 3-5-8-9-10-11	Saxton Products Inc 2-3-5-9-10-11-12-13	7337 Grand Ave Maspeth 78 NY 3'
Passaic NJ 12-13-14-15-21-22-27-29-54-60 Organic Development Corp	1661 Boone Ave 14-15-20-21-27-28-29 New York 60 NY 31-36-38-39-41-54-58	Transradio Ltd
8841 Orangewood Ave	Schaffer Air Industries	138A Cromwell Rd London SW 7 England
Anaheim Calif 9-10-12-14-15-29-37-39-41	290 N Henry St Brooklyn 22 NY 37	Trico Fuse Mfg Co
Pace Electrical Instruments Co 70-31 84 St Glendale 27 LI NY 19	Scientific Coil Co 5619 Broadway Chicago 40 III 29	2948 N 5 St Milwaukee 12 Wis 10
Pacific Automation Products	Scientific Glass Apparatus Co	Tricon Mfg Co 8012 Wallace St Chicago 20 III 5:
1000 Air Way Glendale 1 Calif 4-14	100 Lakewood Terrace	Tri-Dex Electronics
Pacific Electricord Co 3217 Exposition Pl	Bloomfield NJ 21-22-26-27 Scintilla Div Bendix Aviation Corp	P O Box 1207 Lindsay Calif TV Hardware Mfg Co Div Textron Inc
Los Angeles 18 Calif 4-10-17-19-29-30-37-50	Delaware Ave Sidney NY 4	400 S Wyman St Rockford III 2-10
Palmer Inc M V	Scovill Mfg Co	Uniform Tubes Inc
4002 Fruit Valley Rd Vancouver Wash 14	99 Mill St Waterbury 20 Conn 49	Level Rd Collegeville 2 Pa 4

Union Plastics Corp	
Wire & Cable Div 2-3-5-9-1	0-11
1627 Paterson Plank Rd 12-13-14-15-2	7-29
Secaucus NJ 38-39-45-50-54-5	6-60
United Wire & Supply Corp	
	1 - 27
Univox Corp	
102 Warren St New York 7 NY 2-4	5-10
Utilities Service Co	
1 Pine St Allentown Pa 10	6-36
Utility Brass & Copper Corp	
255 Conover St Brooklyn 31 NY 1-27	7-49
United Mineral & Chemical Corp	
16 Hudson St New York 13 NY 21-46-53-62	2-63
U S Plastic Rope Inc	
2581 Spring St Redwood City Calif	17
Vacuum Metals Corp Div Crucible Steel Co	
P O Box 977 Syracuse 1 NY 57	7-58
Varflex Corp	
511 W Court St Rome NY	34
Victor Electric Wire & Cable Corp	
618 Main St 2-3-5-9-10-11-12	
618 Main St 2-3-5-9-10-11-12 W Warwick RI 17-29-30-38-39-50	)-54
Virginia Electronics Co	
River Rd & B&O RR Washington 16 DC	37
Voron & Co George	
835 N 19 St Philadelphia 30 Pa	37

Wade Electric Products Co
Box 271 Sturgis Mich 4-37
Waldom Electronics Inc
4625 W 53 St Chicago 32 III
Walsco Electronics Mfg Co 100 W Green St Rockford III
100 W Green St Rockford III 19 Walton Tool & Die Co
2707 Empire Ave Burbank Calif
Warren Wire Co 5-9-10-12-27-20-21
Warren Wire Co 5-9-10-12-27-29-31 Pownal Vt 38-39-44-45-54-60
Weckesser Co
5701 Northwest Hwy Chicago 30 Ill 16
Werner Co R D
295 5 Ave New York 16 NY 1
Western Gold & Platinum Co
525 Harbor Blvd Belmont Calif 51-61 Western Insulated Wire Co
2425 E 30 St
Los Angeles 58 Calif 9-11-12-29-38-54
Western Int'l Co
45 Vesey St New York 7 NY 5-11-12-60
West Instrument Corp
4363 W Montrose Ave Chicago 41 Ill 61
Weston Electrical Instrument Corp
Sub Daystrom Inc
614 Frelinghuysen Ave Newark 12 NJ 19
Wheeler Insulated Wire Co
150 E Aurora St Waterbury 20 Conp 29-37-40-41
Waterbury 20 Conn 29-37-40-41

whitaker Cable Corp	
1301 Burlington St	7-8-9-10-16-27
N Kansas City Mo	28-29-30-37-39
-	
Wildberg Bros Smelting	
742 Market St San F	rancisco 2 Calif 51
Willard Storage Battery	7
246 E 131 St Clevelar	
Wilmar Mfg Co	sas City Mo 4
1110 Truman Rd Kans	
Winder Aircraft Corp of	Florida
P O Box 2397 Drane	Field
Lakeland Fla	1-4-6-37
Wind Turbine Co	
	W Chester Pa 36
E Market St & PRR	w Cuester La 30
Wire Co of America Inc	
P O Box 516	
Santa Barbara Calif	4-9-12-29-38-39-45-50
Wirecraft Products Inc	
10 Lake St W Brookf	ield Mass 60
Wright Steel & Wire C	o G F
243 Stafford St Worces	ster 3 Mass 36
Wyeth Eng'g Inc	
9911 Walden Pkwy Ch	sicago 43 III 4
	neago 45 III
Zierick Mfg Corp	
Beechwood & Rockdal	
New Rochelle NY	16

Whiteker Cable Corn

#### CONSULTING ENGINEERS

### **ELECTRONIC INDUSTRIES DIRECTORY**

# Consulting Engineers

An alphabetical listing of individual engineers and engineering companies specializing in consulting services for the radio-TVelectronic and allied fields. The particular specialty of each engineer is indicated by a code letter following his name and address.

Broadcost	A
Communications	B
Component Manufacturing	c
Electronic Control Systems	
Equipment Manufacturing	
Industrial Electronics	
Recording, Audio	н

Adair G P 1610 Eye St N W Washington 6 D C EX 3-1230 A,B,D,F 3-1230 A,B,D,F
Adler Comm Labs 1 LeFevre Lane New Rochelle 1
N Y 6-1620 A,B,H
Alford A 299 Atlantic Ave Boston 10 Mass HA
6-2338 A,B,C,E
Alvarado TV Co 122 Tulane S E Albuquerque New

Amoo L R Granger Hill Valley City N D 136 A Amy Aceves & King 11 W 42 St New York N Y LO 5-6622 A,B

Anderson-Nichols 150 Causeway St Boston 14 Mass

RI 2-3400 B,D,E

Andrews Inc L W 1927 College Ave Davenport Iowa 2-8683 A.B.E

Antin Joseph 137-21 85 Ave Jamaica 55 N Y L I 4-5810 B,C,D,E,F,

A-DOLO B, C, D, E, P,
Ark Eng'g Co 431 W Tabor Rd Philadelphia 20 Pa
Automation Management Inc Adams St Westboro Mass
WE 377 D, E, F
Bacon J W 2001 Bay View Dr Hermosa Beach Calif
FR 2-5739 C
Bailbu Care A-model B. Barin Co

Bailey Corp Arnold B Main St St Francestown N H
NE 100 B.E
Balter Leslie M 880 Bergen Ave Jersey City 6 N J
JO 3-2777 B.D.F.H
Barnes Eng'g Co 30 Commerce Rd Stamford Conn
FI 8-5381 C.D.F

Behar M F 245 Melwood Ave Pittsburgh 13 Pa SC 1-1100

Sc. 1-1100

Bennett S D c/o Linfield Research Institute McMinnville Ore 8712 A

Benns Jr W E 3802 Military Rd N W Washington
D C EM 2-8071 A,B

Bernard Associates 237 E 39 St New York 16 N Y
MU 6-7445 A.B.D.F.H

Bieker H G 12009 Burbank Blvd N Hollywood Calif 3-6921

Bird J R 4850 E Cornell Fresno 3 Calif CL 5-6875 Bitter A R 3721 Douglas Rd Toledo 13 Ohio KI 5159 A,B,F

Bixby Assoc H O 238 Main St Cambridge 42 Mass EL 4-0404 B,C,D,E,F Bjørksten Research P O Box 265 Madison 1 Wisc 5-7291

Bolez Recording Co 238 Hamilton St Allentown Pa HE 2-0142 H

nE 2-U142 H
Brennan & Assoc C E 2035 E Tripoli Ave Milwaukee
7 Wisc HU 1-0790 A
Briggs & Assoc 10 DeKalb St Norristown Pa BR
9-2120 D.E.F

Brown Duncan & Porter P 0 Box 9296 Raleigh N Car 8892 A

Brown R A 619 Sugar Creek Dr Joliet III JO 2-2201 A,B,D,E,F Brubaker P M 100 Essex Ave Glen Ridge N J PI

3-5748 B,D,F,H Bumstead R W 624 Maple St Westfield N J WE

2-0628M D,F,H
Burnett W W L 4814 Idaho St San Diego 16 Calif
AT 2-2740 A,B,D,E
Burwen R S 17 Sheffield Rd Melrose 76 Mass ME

4-4526 D.H

Byrd Eng'g Co P O Box 101 W Memphis Ark 404 B,D,F Carney & Assoc Jack 905 Knott Bldg Dayton Ohio FU 3943

Carr Assoc L H 1001 Conn Ave N W Washington 6 D C ST 3-2550 Charp S 39 Maple Ave Upper Darby Pa SU 9-7498 B,D.F

Cisin Harry G Amagansett N Y AM 7-3852 Clark & Co Wallace 521 5 Ave New York 17 N Y MU 2-3281 C.D.E.F Clarke & Hartman 408 Summit Ave Jersey City 6 N J JO 2-0012 B.F

Collins Jack 9025 N Pelham Pkwy Milwaukee 17 Wisc FL 2-7520

Commercial Radio Equip 1319 F St N W Washington D C 7-1319 A Consultant's & Designers 650 11 Ave New York 36 N Y PL 7-6700 D.F

Craig & Assoc P H 1042 Catalonia Ave Coral Gables 34 Fla MI 83-6361 D,F
Cresap, McCormick & Paget 342 Madison Ave New York 17 N Y MU 7-5450
Crosby Labs Box 233 Hicksville N Y WE 1-3191 A,B
Cullum Jr A Earl Inwood P O Dallas 9 Tex LA 8-6108

Culver L R Box 607 Melbourne Fla 214-W C Davis George C 504 Munsey Bldg Washington 4 D C ST 3-0111 A

Day George 697 Sterling Pt Brooklyn 16 N Y MA 2-0699 H Decker Consultants 125 White Rd Mineola N Y PI 2-7084 B,C,E,F

L-7.US4 B.U.E.F Delta Electronics 1803 Louisiana Ave New Orleans 15 La TW 5-2091 A,B,D,F,H DeMent Labs 5919 SE 72 Ave Portland 6 Ore DeRyder H 610 Bloemfield Ave Bloomfield N J BL 2-2665 E

2-2665 E
Designers for Industry 4241 Fulton Pkwy Cleveland 9
Ohio SH 9-0700 A,B,C,D,E,F,H
Douglas Eng'g Co 28 Taylortown Rd Montville N J
DE 4-2430 C
Draco Inc Box 6648 Washington 9 D C DU 7-2550
B,D,F

B,D,F
Dunleavey F S 2660 North Ave Bridgeport 4 Conn
F0 7-1708 C,D,E F
duTreil & Assoc L J N 202 Homedale Ave New
Orleans 24 La AU 3525 A
Edgerton Germeshausen & Grier 160 Brookline Ave
Boston 15 Mass CO 7-3520 D,E,F
Elcar Eng'g 623 Crandell Rd Tiverton R I 4-8553 B
Electro-Mech Eng's 1124 F 3 St Minnaganglis 15 Minn

Electro-Mech Eng'g 1124 E 3 St Minneapolis 15 Minn FE 3-4728 D.E.F.H

Electronic Equipment Supply 249 N 48 St Lincoln 10 Nebr 6-2444 B,C,E,F

Electronics Eng'g 6518 N Bouvier St Phila 26 Pa Electronics Research 221 Angelique St Weehauken N J

UN 3-5136 D
Engineering Service 621 Jones Way Sacramento 18
Calif GL 3-1400 D,E
Engleman C L 2480 16 St N W Washington 9 D C
AD 4-6830 A,B,C,D,E,F,H
Espy Dawkins Box 933 Beverly Hills Calif CR 4-7111

A.B.E.H Ewald E R 1202 James St Geneva III 2022 C,E,F

Fein Mitchell 202 Saddlewood Drive Hillsdale N J WE 5-2055 C,D.E

Foss Wm L Inc 927 15 St N W Washington 5 D C RE 7-3883 Frazer Co Bob 978 Kent St Altadena Calif SY 4-0512

Frese G M RT 3 Box 3276 Wenatchee Wash NO 3-5864

Friedman T B 235 Quadro Vecchio Dr Pacific Pali-sades Calif GL 4-2837

Frommer J C 1525 Teakwood Ave Cincinnati 24 Ohio KI 8730 D.F

Gallay Labs 60 Perry St Belleville 9 N J PL 9-4237 Gautney & Jones 1052 Warner Bldg Washington 4 D C NA 8-7757 A,B General Kinetics Inc 555 23 St S Arlington 2 Va OT 4-7555 B.D.F

OT 4-7555 B.D.F Gerst Co Paul E 4868 N Clark St Chicago 40 III LO 1-5897 C.E Godley Co Paul P O Box J Upper Montclair N J MO 3-3000 A.B.F Goldsmith A N 597 5 Ave New York 17 N Y PL 3-4150 A.D.F Gordon H L Warner Bldg Washington 4 D C NA 8-2497 C.D.E.F.H

Gordon-Obrig Assoc Inc 7 E 48 St New York 17 N Y PL 3-1642

Gottschalk Eng'g Box 335 Rt 3 Tucson Ariz 4-3288 Graf Rudolph 215 W 92 St New York 25 N Y TR 7-1977 B.E Gray C M P O Box 602 Birmingham 1 Ala TR

1-3570 A Greer P A Rt 1 White Horse Rd Greenville S C 5-7175 A

Grimwood Assoc S C 5402 Cabanne St Louis 1 Mo F0 7-5640 Haigler E D North York Rd Hatboro Pa OS 5-3562

Haller Raymond & Brown 124 N Alberton St State College Pa AD 7-7611 B.D.E.F Hammett Robert L 821 Market St San Francisco 3 Calif SU 1-7545 A.B

Calif SU 1-7545 A,B
Hare Co D G C 30 Burtis Ave New Canaan Conn W0 6-9569 E
Hartman R E Rt 2 Box 189A Tiffin Ohio 4174-W 0,F
Hartong J C Box 466 Beckley W Va 5633 B,D.E.F,H
Hatfield J B 906 36 Ave Seattle 22 Wash FR 7860 A
Hayes R R 151 North St San Antonio 5 Tex CA
4-7292 B,C.D.E

echt Bernard 5410 Wilshire Blvd Los Angeles 36 Calif WE 0121 B.C Heffelfinger J 4-7010 A.B B 8401 Cherry Kansas City Mo HI

Hildebrand J G 45 Brighton St Belmont 78 Mass IV 4-3434 C

Hoherman Max 11 Godwin Ave Fair Lawn N J FA 4-5654 B,C,D,E,F

Hogan A W Box 1082 Brownsville Tex LI 2-5394 D Hogan Labs 155 Perry St New York 14 N Y CH 2-7855

2-7855 Hoisington D B 150 Ford Rd Carmel Valley Calif LO 9279 B.D.E.F Holdaway & Assoc L M 369 Romany Rd Lexington Ky 4-9889 B.D.F

Holey W J 1146 Briarcliff P! N E Atlanta Ga TR 4-3326 Holland Electronics 2133 Central Drive S East Mea-

dow N Y TV 9-0956 A.B.D.E.F Hollmann Dr H E 13026 Woodbridge St Studio City Calif ST 9-7353 Hutcheson G C Box 32 Arlington Texas CR 4-8721

Industrial Res Products 9400 Belmont Ave Franklin
Park III GL 5-3600
Instruments for Industry 150 Glen Cove Rd Mineola
N Y PL 2-5300 B.E

Irco Corp 16 Hudson St New York 13 N Y RE 2-2996 D.E.F

Tisherg R A 2001 Barbara Drive Palo Alto Calif DA 3-1237 A.B.D.E.F.H Jacker E W 860 Lincoln Blvd Manitowoc Wisc MU 2-5358 A.B.F.H

Jansky & Bailev Inc 1339 Wisconsin Ave N W Wash-ington 7 D C FE 3-4800 A.B.D.E Johnson J K 184 South Ave New Canaan Conn WO 6-2827 A.B.C.D.E.F

6-2827 A,B,C,D,E,F Kahn Research Labs 22 Pine St Freeport N Y B Kahbfell Electronix 3434 Midway Dr San Diego 6 Calif AC 3-7156 D Kalimann H E 417 Riverside Dr New York 25 N Y

AC 2-1713 E.F.H Katzin Martin 711 14 St N W Washington 5 D C ME 8-5818 B.C.D.E.F Kean Walter F 1 Riverside Rd Riverside III RI

Kean Walter 7-2153 A Kear & Kennedy 1302 18 St N W Washington 6 D C

HU 3-9000 A.B eel J J 1121 E Capitol St Washington D C L1 4-5131 A.B

4-5131 A,B Kelburn Eng'g Co 3136 Clarence Ave Berwyn III ST 8-6485 D.E.F Kelton M R 4350 Sherbrooke St W Montreal Canada FI 5442 A,B Kinn T P 7007 Lancaster Rd Baltimore Md HU

6-8988 B,C,D,F

Kip Electronics 29 Holly PI Stamford Conn DA 3-5116 Kirk W C 2114 Griffith PI E Owensboro Ky MU

3-4144 C,D,E Kohlhagen Walter 818 Oakley Ave Elgin III SH 1-8913 F

Korn G A & T M General Delivery Sun Valley Calif B.D

Kunins M K 1730 Popham Ave New York 53 N Y LU 7-0024 D.F La Forge Jr L H 764 Marion Ave Palo Alto Calif DA 5-3775 C

Lappas & Lindberg Co 141 W Jackson Blvd Chicago

appas & Lindberg to 141 W Jackson Bivo Chicago 25 III WA 2-4123 A,B ehr O A 643 W Shawnee Dr Montgomery 7 Ala 2-0350 A,B,D,F

Levey Labs H A 8127 Oleander St New Orleans 18 La GA 1501 Little Inc A D 30 Memorial Dr Cambridge Mass UN 4-9370 D.F

Lohnes & Culve DI 7-8215 A Culver Munsey Bldg Washington 4 D C

Loupee & Co N A 120 Broadway New York 5 N Y RE 2-8515 B.D.F

nc 2-8313 B.U.F Lubcke Harry R 2443 Creston Way Hollywood 28 Calif HO 9-3266 A.B.D.F Lyon H H 4004 Jefferson St Hyattsville Md WA 7-2044 A.B

Magnuson Engr's 509 Emory St San Jose Calif CY 2-3657 E.F

Marchand Electronic Labs 311 Riversville Rd Green-Mast Development Co 2212 E 12 St Davenport Iowa

3-9729 F
Mathematical Computing Service 67-24 211 St Bayside 64 N Y BA 4-6184 B.C.D.E.F.H

May Eng'g Co 6055 Lankershim Blvd N Hollywood

Calif
May Russell P 711 14 St N W Washington 5 D C
RE 7-3984 A.B
McIntosh F H 777 14 St N W Washington 5 D C
ME 8-4477 A.B.F
McNary J C 906 National Press Bldg Washington
D C DI 7-1205 A.B
McNeal J D 794 Quinnipiac Ave New Haven Conn
H0 7-7012 D.E.F

Meyers J G 1056 Sheridan Ave New York 56 N Y WY 2-0138 H Metro-Goldwyn-Mayer Culver City Calif TE 0-3311 H

Midwest Eng'g Co 5437 N Santa Monica Blvd Mil-waukee 17 Wisc WO 2-5172 A Mills J V Rm 1065 National Press Bldg Washington 4 D C ST 3-1065 B,C,D,E

Mittelman Eugene 549 W Washington Blvd Chicago 6 Ill ST 2-3171 D.F Morecroft J M 2637 Pickens St Montrose Calif CH 9-6418 A.B.D.E.F.H

Morefield John A 441 N 25 St Camp Hill Pa RE 7-3416 B.D.F.H

Morris Jr F W 11600 Fairway Dr Los Altos Calif WH 8-3928 B,D Morrissey T G 5700 W 28 Ave Denver 14 Colo BE 3-5320 A,B,D

Moulic Specialties 1005 W Washington St Bloomington III 6-1235 D.F

MSI Communications 1475 Broadway New York 36 N Y BR 9-8517 B,D,F

Mullaney John H 2000 P St N W Washington 6 D C CO 5-4666 A,B,D

Murray A F 4900 Hillbrook Lane Washington 16 D C EM 2-4841 A,B Pennsylvania Ave N W

yse & Assoc D A 1411 Pennsylv Washington 4 D C RE 7-7040 A.B Nat'l Scientific Labs 2010 Mass Ave N W Washing-

ton 6 D C HU 3-4030 B,D,F Nicholson Emmett 256 Scotland St Dunedin Fla 81-3191 F

North Hills Electric 203-18 35 Ave Bayside 61 N Y BA 4-0540 C.E

Norton Electronics 10 Addison Rd Fairfax Va CR 3-0850 D.F

Page Cruetz Garrison & Waldschmitt 710 14 St N W Washington 5 D C EX 3-5670 A

Penfield Paul 752 Lakeside Birmingham Mich Pfeiffer G S 4529 W Parker Ave Chicago 39 III BE 5-9377 F

Pickles Sidney P O Box 1126 Tonopah Nev 1386 Plotts Ellery L 209 Jason St Arlington 74 Mass MI

3-8220 A.B Pollack Dale 751 Main St Waltham Mass TW 4-6043 Polydoroff W J 927 15 St N W Washington 5 D C NA 7-6724 C.E

Polytechnical Consultants 425 W 263 St Riverdale 71 N Y KI 9-7394 Pooley R R 3153 N E 83 Ave Portland 20 Ore AL

3-7450 A.B Preisman A 616 St Andrews Lane Silver Spring Md JU 5-6307 A,B,H

Pressman Assoc 7803 Farnsworth St Philadelphia 15 Pa DE 3-8064 D.E.F

Prestwood F H 342 Lincoln Ave Val Paraiso Fla 2547 A D

Rabinow Eng'g Co 7212 New Hampshire Ave Washington 12 D C JU 9-3555 C,D,F Radio Eng'g Co 1355 Market St San Francisco Calif MA 1-8171 A,H

Raesler J L 93 Philips Rd Manchester Conn MI 9-0949 D.E.F

Richardson Assoc W E 1017 S W Washington Portland Ore CA 8-7777
Ring & Co A D 1032 Pennsylvania Bldg Washington 4
O C RE 7-2347 A,B
Rochester Electrical & Radio 462 Plymouth Ave N
Rocheter 6 N Y LO 6696 A,B,D
Rosen Co Milton 43 Winthrop Rd Hillsdale N J WE

5-0961 C.D.E.F Rosenberg Assoc P 100 Stevens Ave Mt Vernon N Y

MO 7-8040 B.C.D.E.F Rountree J G 5622 Dyer St Dallas 6 Texas EM 3266

Saxon Merl P O Box 575 Lufkin Texas 3-4242 A Schultz Co 503 N Pine St Indianapolis 2 Ind ME 6-5461 D.F

Selby H E 619 68 St Brooklyn 20 N Y SH 5-5332 C,E,H

Shelkofsky C I RT No 1 Foley Ala WH 3-6269 A,B Shepard Labs 480 Morris Ave Summit N J CR 3-5255

Silliman & Assoc R M 1405 G St N W Washington 5 D C RE 7-6646 A,B,D,F Singleton Harold C 4488 S W Council Crest Dr Port-

land 1 Ore CA 3-1201 A Smeby L 4806 Montgomery Lane Washington 14 D C

OL 2-8520 A Smith Carl E 4900 Euclid Ave Cleveland 3 Ohio HE

2-3177 A,B,D,F Smith G D 136 Liberty St New York 6 N Y RE 2-

6688 E W B 1011 Georgia Ave Santa Monica Calif EX

4-8345 H Spencer M C 28 Green St Lebanon N H LE 457 D,F Stone C G 304 S 1 Ave Mt Vernon N Y MO 8-8167 FF

Strain Eng'g 4556 Northside Dr N W Atlanta 5 Ga CE 3-0389 A

Street C C 610 S San Vicente Blvd Los Angeles 48
Calif WE 1-0055 B.D.E.F.H

Sunstein Eng'g Co 464 Conshohocken State Rd Bala-Cynwyd Pa

Swanson E M 15 Cleveland Ave Glen Head N Y GL 4-6324 B,E Swantek J J 3132 Glacier Way Ann Arbor Mich NO

2-9608 A.B. Swarthe Eric P O Box 212 El Segundo Calif FR 4-1757 D.E.F

Tammen & Denison 650 S Clark St Chicago 5 III HA 7-3955 C,D,E,F,H

Tannenbaum Jerome 5240 S Harper Ave Chicago 15 III FA 4-9556 D.F. H

Town & Hughes Box 112 Station A Ames Iowa CE 2-5754 A,B,D T & T Radio Measurements 2557 Altlantic Ave Long Beach 6 Calif GA 4-2015 A

Uglow Kenneth M 7961 Eastern Ave Silver Spring Md

JU 9-2603 B

Vandivere Cohen & Wearn Evans Bldg Washington 5 D C NA 8-2698 A.B Vaughan Assoc C B Box 441 Union City N J D

Wagner & Assoc G 0 931 Groton Dr Burbank Calif TH 4-1692 C,O,F Walsh Eng'g 34 DeHart P! Elizabeth 2 N J EL 4-5120 C.O.E

Watson Jr R C P O Box 1435 Anniston Ala AD 6-4503 A,F

Weldon & Carr 1001 Conn Ave N W Washington 6 D C ST 3-2550 A,B,H

Westlabs Inc P O Box 1111 Palo Alto Calif DA 4-0514 F

Whalley W B 201-10 28 Ave Bayside 60 N Y BA 9-9049 F

Wheeler Labs 122 Cutter Mill Rd Great Neck N Y HU 2-7876 B

Whiteford Lab 587 Washington St Lynn Mass LY 8-9119 B.D.E Whitney Philip 200 Shawnee Ave Winchester Va

Williams B M 1805 Westway Ave Garland Texas 6-3443 C.D.E.F

Williams E M 415 Maple Ave Pittsburgh 18 Pa PE 1-8083 B,D,F Williams M R 7401 E 14 St Indianapolis 19 Ind FL 6-0388 A,B,F,H

Williams N 20 Algoma Blvd Oshkosh Wisc BL 885 Wilmotte Inc R M P O Box 397 Kendall Br Post Office Miami Fla PE 7-7531

Winkler Labs 5225 N 20 St Phoenix Ariz AM 6-5952

Winfield Scott McCachren & Assoc 2404 Columbia Pike Arlington 4 Va JA 8-800 A Wortman L A 75 Charles St New York 14 N Y WA

Wrathall G R Aptos Calif MU 8-3352 A,E

Wright Eng'g Co 7941 McNulty Ave Canoga Park Calif DI 7-6843 A,B,D,F,H Wright L R Munsey Bldg Washington 4 D C DI 7-1740 A

Wyeth Eng'g 1336 W 89 St Chicago 20 III HI 5-

#### ELECTRONIC INDUSTRIES DIRECTORY of

## Kepresentatives ("Keps")

This section of the 1956 Electronic Industries Directory lists those representatives operating as independent "reps" who handle two or more lines. They do not include factory staff salesmen. "Reps" are listed alphabetically under states and cities. Asterisks (\*) indicate membership in "The Representatives" of Electronic Product Manufacturers, Inc. Telephone numbers are given to speed contacts.

#### Aloboma

BIRMINGHAM Emory Design & Equip 404 Dexter Ave TR 1-1369 Hayden Associates Paul Hdgrs E Point Ga

#### Arizona

PHOENTX HOENIX
Bernstein & Co 39 W Adams AL 2-4371
Circle Sales Co 9151 N 9 St WI 3-3925
Marsh Co J W 1011 W Whitton AM 6-9124
McDonald Tom 4656 N Central CR 4-5416
Maydwell & Hartzell 324 S 2 Ave
Moore Sales Co Harry A Box 7245 AM 5-4662
Neely Enterprises Hdgrs N Hollywood
Shefler Co H P 0 Box 1587 AL 8-7893 TUCSON

Juwett Co Samuel O 1025 S Van Buren St Marshall Co G S Hdgrs Pasadena Miller Co Gerald B Terminal Bldg TU 4-4255

#### Colifornia

LOS ANGELES AREA
\*Alderson Co Wes 10422 National Blvd TE 0-1030
Ames Eng'y Co 613 Nethany Rd (Burbank) TH
2-8937

2-8937
\*Appleton Harry N 136 San Fernando Rd CA 5-5611
\*Barron Cb W J 817 S Hoover St DU 7-5258
\*Barstow & Doran 1406 S Grand Ave RI 8-6191
Bassett Co William E 12045 Magnolia Blvd (N Hollywood) PO 6-2217
\*Betker Co Herb 1140 Crenshaw Blvd WE 1-1257
Berman Co J 1141 S La Cienega Blvd BR 2-9138
Bray & Carter 2234 W 11 St DU 9-3173
Charrett Co 1409 Wilshire Blvd (Santa Monica)
TE 0-8489
\*\*Corbrane, Barron Co 544 S Maxinosa DU 5-0095

TE 0-8489

\*Cothrane-Barron Co 544 S Mariposa DU 5-0095
Cohn Sales Co S H 1769 S Holt Ave TE 0-4398
Components Sales Corp 4714 Van Nuys Blvd
(Sherman Oaks) ST 9-9641
Corman Walter W 7432 W 80 St 0R 4-5833

\*Costello & Co 3406 W Washington Blvd RE 3-9175
Davidson & Assoc Joe 2803 Los Flores Blvd (Lynwood) NE 6-2245

\*Davis Sales Co Geo W 5432 E Beverly Blvd RA
3-3594

Dudek & Co Richard C 407 N Manle Dr (Beverly

3-3594
Dudek & Co Richard C 407 N Maple Dr (Beverly Hills) BR 2-8097
\*Ealy Co M D Box 238 (Northridge) ST 3-1775
\*Edwards Jackson 6047 Hollywood Blvd HO 5-1141
Elecnair Co 3903 Warner Blvd (Burbank) VI 9-2874
Ellis Co David 919-D E California St (Pasadena)
RY 1-9108

\*Emmet Frank A 2837 W Pico Blvd RE 1-8211 \*Erlanger Sales Co 4217 Jefferson Blvd RE 1-2238 Falck Co Fred W 2311 W Burbank Blvd (Burbank)

Falck Co Fred W 2311 W Burbank Blvd (Burbank) VI 9-4298
\*Feldman Co Henry 1244 S Grand Ave RI 9-8803
Geist Co Wm K 3177 Glendale Blvd NO 5-8910
Gilbert Co M B 1608 W Centinela Blvd (Inglewood)
OR 8-5767
Graham Sales Co 1200 N Sycamore Ave (Hollywood)

Graham Sales Co 1200 N Sycamore Ave (Hollywood)
H0 2-3552
Hachten Co J E 8413 E Las Tunas Dr (San Gabriel) CU 3-3867
\*\*Hansen & Brazan 1406 S Grand Ave RI 8-6191
Harmon Co W S 121 N Robertson Blvd (Beverly Hills) BR 2-3321
\*\*Heim & Scheer 11168 Santa Monica Blvd BR 2-5133
\*\*Hill Sales Co L T 420 So Bine (San Gabriel) CU

\*Hill Sales Co J T 420 So Pine (San Gabriel) CU

3-6555 Holmes Co Carl F 107 N Ave 64 CL 6-2255

Jewett Samuel 0 13537 Addison St (Sherman Oaks) ST 9-6027 Jurin Co Syd 4853 Oakwood Ave HO 5-5507

Key Enterprises 15131 Gilmore St (Van Nuys) ST 0-6187

King-Moon Co P 0 Box 1245 (Sherman Oaks) ST 4-5404\*Kittleson Co 416 N La Brea Ave WE 3-7371

\*Kittleson Co 416 N La Brea Ave WE 5-7971 \*Knight Co W Bert 10373 W Pico Blvd BR 2-5647 Koessler Sales Co 818 N Fairfax Ave OL 3-1605 Luscombe Eng'n Sales 17 W California St (Pasadena) SY 5-6462 Lynch & Son C R 3307 Glendale Blvd NO 3-8236

\*Mann Assoc Martin 14751 Keswick St (Van Nuys) ST 3-2850
Marchuk Co F J 261 E Colorado St (Pasadena)
\*Marsh Co J W 4216 W Jefferson Blvd RE 2-0145
\*Marshall Co G S 2065 Huntington Ave (San Marino) RY 1-6781
\*Marshank Sales Co 7422 Melrose Ave WE 8-2591
Maydwell & Hartzell 427 W 5 St MU 7248
MCCarthy Assoc 16 N Marengo Ave (Pasadena) RY 1-8810
\*Miller Co Gerald B 1550 N Hinhland Ave

1-8810
Miller Co Gerald B 1550 N Highland Ave (Hollywood) HO 2-1195
Miller Assoc 742 S Hill St Mitchell Co C H 9015 Wilshire Blvd (Beverly Hills) BR 2-6635
Moxon Sales G E (Culver City) Hdgrs San Mateo Nash Co A W 2112 S Atlantic Blvd AN 9-7304
Neely Enterprises 3939 Lankershim Blvd (N Hollywood) ST 7-0721

Olander & Co Roland 7225 Beverly Blvd WE 5-1211 Osborne R E 1757 Garfield Ave (S Pasadena) RY 1-3175

Dwens Co L H 2331 W Washington Blvd RE 5-0203

Paules & Co E G 1762 W Vernon Ave AX 3-6265
Perlmuth Electronics Assoc 2419 S Grand Ave RI

7-4521
Possner Co 1223 Venice Blvd DU 8-0508
Renz Roy E 3310 W 6 St DU 8-6545
\*Rissi A J 2724 S Peck Rd (Monrovia) RY 1-5621

\*\*Roberts & Assoc E V 5068 W Washington Blvd WE 8-2541 Ross & Co Malcolm 6119 Longridge Ave (Van Nuys)

\*Rupp Co V T 307 Parkman Ave DU 7-8224 Rush & Assoc C B 3757 Wilshire Blvd DU 8-7585 \*Saul & Assoc H M 5015 San Vicente Blvd WE 8-3591

8-3591
Shephard-Winters Co 7559 Melrose Ave WE 8-2996
Shoemaker & Assoc 1127 Wilshire Blvd MI 1304
\*Siegel Co S 1133 S La Cienega Blvd OL 5-8870
Skahill E A 933 N Kenmore Ave MO 3-4453
\*Snitzer T L 5354 Pico Blvd WE 8-2074
\*Snyder Co Lee Grant 1418 N Highland Ave
(Hollywood) HO 9-6278
Sodaro Co Joseph F 3895 Main St (Culver City)
TE 0-3213
Starr Edwin E 4101 Rhodes Ave (N Hollywood)
ST 7-5879
Stern & Co I R 4109 Burhank Blvd (Rurhank) VI

ST 7-5879
Stern & Co I R 4109 Burbank Blvd (Burbank) VI
9-1195
Stevens Co Thomas L 5333 S Sepulveda (Culver
City) EX 8-5768
Stolaroff Co M A 4622 W Slauson Ave AX 3-6226
\*Stone Sales Co R L 8971 National Blvd TE

\*Strassner Co Conrad R 1865 N Western Ave HO

\*Strassner Co Conrad R 1865 N Western Ave HU 2-0916
Thorson Co 7361 Melrose Ave WE 4-1191
\*Tubergen Assoc 2232 W 11 St DU 9-3173
Van Groos Co 14515 Dickens St (Sherman Oaks)
ST 7-9615
Vaughn Co G H 15 N Euclid Ave (Pasadena) SY 5-4420
\*\*Mellore 8 Wollage 1306 Maple Ave PL 7 0401

5-4420
\*Wallace & Wallace 1206 Maple Ave RI 7-0401
\*Weber Co Wedge 1217 Venice Blvd DU 7-2111
\*Weightman & Assoc H G 4101 Burbank Blvd
(Burbank) VI 9-2435
Wesrep Corp 2022 S Sepulveda Blvd BR 2-3757
West Co Lloyd E 557 E Walnut St (Pasadena) RY

1-5281

1-5281 Western Control Equip Co 14615 Ventura Blvd (Sherman Oaks) ST 7-0447 \*Westron Sales & Eng'g Co 7407 W Melrose Ave WE 3-7276

Wilcox Co E A 6436 E Corvette St RA 3-6436 \*Wiley Co Paul F 1632 Silver Lake Blvd NO 3-8028

\*Wood Co Ash M 11938 E Garvey Ave (El Monte)
CU 3-1201
Yarbrough Sales Co 2636 Mission St (San Marino)
RY 1-3331
Zimmerman Co W E 407 N Maple Dr (Beverly
Hills) RY 2-1181
SACRAMENTO

Neely Enterprises Hdgrs N Hollywood N DIEGO Hildebrand Gorman 3132 Tarragona Dr JU 2-4677

\*Hill Co J T 1864 Bacon St AC 3-7133 Marshall Co G S 3525 5 Ave CY 8-8234 Miller Co Gerald B 1263 Rosecrans Blvd AC 2-1121 Neely Enterprises Hdgrs N Hollywood SAN FRANCISCO AREA \*Ault C E 906 Willow Rd (Menlo Park) DA 6-1760 \*Belchamber & French 1485 Bayshore Blvd JU 6-

\*Betchamber & French 1485 Baysnore Bivd Jr 0406 Belfer William 926 Howard St SU 1-2633 Belilove Co 420 Market St YU 2-3713 \*Berman Co E L 780 Natoma St UN 3-0317 Brainard W V 1010 Grosvenor PI (Oakland) T

\*Brandt E W 1355 Market St HE 1-0484
Cady J F 1485 Bayshore Blvd JU 5-4108
Cochrane-Barron (Palo Alto) Hdgrs Los Angeles
Dalton C R 132 El Camino Real (San Carlos) LY
1-2654

1-2654
Deere Co Jerry 1809 Virginia Ave (Redwood City)
\*Eichorn & Melchior 749 Bryant St DO 2-1038
Frazar & Hansen 301 Clay St EX 2-5112
\*French Sherwood P 141 Walter Hays Dr (Palo Alto) DA 3-0597
\*Harriss-Koetke Sales Co 383 Brannan St YU 6-

1084 Heaton James S 3525 Alameda Dr Las Pulgas (San

\*Hill Co J T 1682 Laurel St (San Carlos) LY 3-7693

\*Hodges & Glomb 921 Bryan St UN 1-2367 Johnson Assoc 129C Hillsdale Blvd (San Mateo) FI 5-5084

FI 5-5084
Kittleson Co Hddrs Los Angeles
Koessler Industrionics 2830 Geary Blvd J0 7-0622
Kolans & Co Bill 3589 St MI 7-6686
\*Lebell Co Frank 988 Market St GR 4-1069
\*Lewis Assoc Dean 4385 Piedmont (Oakland) OL
4-0613

\*\*A-9-9-10 Pearl 4-9-95 Predmont (Oakland) OL 4-0613

\*\*Logan Sales Co 150 8 St HE 1-0692

Marshal Co G S (Redwood City) Hdgrs Pasadena

Mauldin Co C W 441 W California Ave (Palo

Alto) DA 4-2135

McCarthy Assoc 441 W California Ave (Palo Alto)

DA 3-3270

McKnight Co 400 Monterey St EX 2-2552

\*\*Meyer & Ross 113 10 St HE 1-0652

\*\*Moulthrop Co F W 575 10 St MA 1-0722

\*\*Moulthrop & Hunter 165 11 St HE 1-2625

Moxon Sales G E 422 LaJolla Ave (San Mateo) FI
5-2866

Neely Enterprises (San Carlos) Hdgrs N Hollywood

5-2866 Neely Enterprises (San Carlos) Hdqrs N Hollywood \*Newman Co H L 420 Market St YU 6-3897 \*Nickerson & Rudat 381 Brannan St YU 2-2982 \*Nott & Co L A 1061 Howard St HE 1-4738 Penisula Assoc 2857 El Camino Real (Redwood City) EM 9-1226 Pflieger Co R L 1652 Laurel St (San Carlos) LY

Pflieger Co R L 1652 Laurel St (San Carlos) LY
1-0396
\*Purdy Co W J 312 7 St UN 3-4321
\*Roherts & Assoc E V Renato Court (Redwood
City) EM 8-7125
\*Ross Co D H 534 El Camino Real (San Carlos)
LY 3-8224
Salisbury & Assoc C M 1453 7 Ave LO 6-8160
Schwarzschild Bert 105 Lake St SK 2-0846
\*Sinai A A 65 9 St UN 1-6259
Striker Co John E 1047 Cherry St (San Carlos)
LY 1-0736
Strassner C R (Redwood City) Hdgrs Los Angeles

Theisner W G 11161 Samedra (Cupertino) CH 3-5142

\*Tompkins & Co W W 941 Newell Rd (Palo Alto) DA 3-3270

\*Tompkins & Co W W 941 Newell Rd (Paid Alto)
DA 3-3270
\*Weightman Assoc 1436 El Camino Real (Menlo
Park) DA 6-3797
White & Co 788 Mayview Ave (Palo Alto) DA 34455
Wilcox Co E A 277 7 St HE 1-6670

### Colorada

ARVADA Barnhill Assoc 6520 W 62 Ave HA 4-7733

Kettering Charles V P 0 Box 172 5281 Kettering Charles V P U BOX 1/2 5261
BOULDER
\*Golliher W B 1003 Grandview Ave HI 2-7899
COLORADO SPRINGS
\*Peyser & Co 1501 N Weber St ME 4-3401
DENVER
CO 731 S Proadway PA 2-4641

ENVER \*Bowen Co 721 S Broadway RA 2-4641 CFL Co 375 S Pearl St SP 7-4381 \*Cluphf & Assoc Stan 7825 W Colfax Ave BE 3-

6025
\*Connors Co W H 375 Birch St DE 3-7628
Franklin Sales Co 1219 California St AM 6-1552
\*Hyde Sales Co 1341 Cherokee St CH 4-7471
Hytronic Measurements 1295 S Bannock PE 3-3701
Kittleson Co Hdgrs Los Angeles Calif
\*Koether-Cox Co 120 W 13 Ave MA 3-3544
\*McLoud & Raymond 5528 E Colfax Ave FL 5-

\*Nelson Co A J P O Box 5502 KE 4-6751 \*Pearson & Co Mel 1011 S Josephine St SP 7-7878 Pease Fred A P O Box 1566 FR 7-2336 Richards & Assoc 2415 15 St GL 5-3651 Swan Co Edward C 232 Dahlia St EA 2-4718 \*Williams Co Allen I 126 W 12 Ave MA 3-0343 FORT COLLING 3525

\*Leeper & Assoc Wilson Box 324 3044
GREELEY

\*Moss Gordon G P O Box 428 GR-770

#### Connecticut

ANDOVER
\*Seyd E K Long Hill Rd PI 2-6604
BRIDGEPORT AREA
Perron & Co Ray (Turnbull) Hdgrs Boston
Sales Engineering Co 211 State St ED 5-9634
CANAAN
Hathaway Electronics Glenn M P O Box 797 TA
4-7215
Jacobson Co Leo Belleval Rd
HARTFORD AREA
Caldwell Co Michael S 289 Fairfield Ave JA 2-5832
Gates Alexander W 46½ Summer St (Manchester)
M1 9-7761
\*Hatton & Co Arthur T 1000 Farmington Ave (W
Hartford) AD 3-3613
Kahn & Assoc Irving 541 Windsor St CH 6-7431
Pettigrew & Co R S 62 La Salle Rd (W Hartford)
AD 2-8533
Stockwell Technical Sales Co 121 Loomis Dr (West
Hartford) AD 3-5069
White Sales Co 36 Milldrum Rd (Berlin) BA 40423
NEW HAVEN AREA
Broger Instr Sales 42 Church St SP 7-6279
Feldman & Assoc Geo 523 Norton Pkwy SP 6-9823
Gerber Sales Co Hdgrs Brookline Mass
Kirschner Edward M 28 Hamistow Ave (Hamden)
CH 8-1816
\*Lavin Assoc Henry P O Box 196 (Meriden) BE
7-5527
Whitehead Jr R H 57 Whitfield St (Guilford) GL
3-3762
STAMFORD
Daggon J J 80 Westcott Rd
EA1 200 5 St DA 4-7300
WESTPORT
\*Neif Assoc Paul S 15 Oak St CA 7-3834

#### District of Columbia

WASHINGTON
Brimberg Assoc 312 Investment Bldg DE 2-8000
Burlingame Assoc Hdgrs New York City
Harbison & Masi 734 15 5t N W
Horman Assoc 2017 S 5t N W
F R Jodon Inc 8510 Beech Tree Rd OL 2-4406
MacDonald Samuel K Hdgrs Philadelphia Pa
Massey Assoc Hdgrs Narberth Pa
Mathias R T 4602 Overbrook Dr OL 6-3371
Peel Sales Agency 3433 Conn Ave N W EM 2-2022
Whitfield James W 6006 Onondago Rd EX 3-6640

BRADENTON BEACH
Hayden Assoc Paul E Point GA
CASSELBERRY
Atcheson & Adams Hdgrs Greensboro NC
CLEARWATER
Wimberly Ben 39 N Pine Circle CL 3-7072
CORAL GABLES
Kimball & Twichell 2C9 Alhambra Circle
FORT MYERS
Lynch & Assoc A H 35 North Shore Ave ED 44431
JACKSONVILLE
\*Cole H A P O Box 852
Ward Engineering Co 2727 Phyllis St
LUTZ
\*Wallace Assoc SK P O Box 67 WE 9-3241
MIAMI
Gibbons Electron Sales R J 3051 N W 4 St NE
4-6256
Hemminger W F 619 N E 78 St PL 9-0300
Hollingsworth & Still Hdgrs Atlanta
Murphy & Cota Hdgrs Atlanta
Repco Sales Co 401 N W 71 St PI 4-2087
Ward Engine Co 9 O Box 11 Gratigny Br
Williams Norman P O Box 671 Buena Vista Sta
MIAMI BEACH
Gaertneer Co Jack 823 86 St UN 6-6664
ORLANDO
Holmes & Assoc E G 56 W Columbia OR 3-3524
ORMOND BEACH
Smith Co Maitland K 322 Riverside Dr CL 3-5853
TAMPA
Cartwright & Bean 4525 Lois Ave 62-0111
Minthorne Co L L Hdgrs Portland Ore
Wallace Assoc Stanley Hdgrs Lutz
WINTER HAVEN
\*Taylor Co Morris P 940 Lake Elbert Dr 2-2684

#### Georgia

Bivins & Caldwell Hdgrs High Point NC
Buchanan D B 206 Underwood Dr W CH-0689
\*Burwell Co Henry W 422 Ponce de Leon Ave N E
TR 4-2127
Cartwright & Bean Hdgrs Memphis
\*Duckett Sales Co Grady 26 E Andrews Dr N E
CE 3-5308
\*Fausett Floyd & Co 777 Pinehurst Terr S W PL
5-5781
Hart Eng'g & Sales 651 W 10 St N W Atlanta 18
Ga AL 9854
\*Hollingsworth & Still 508 Whitehead Bldg MU
8-5878
Holmes & Assoc E G 309 Pharr Rd N E CE 7-7801
\*Joyner & Assoc J E Box 341 Sta A P L 5-4336
\*Millar Assoc James 1036 Peachtree St N E TR

Mills & Assoc W H Box 143 Northside Sta \*Murphy & Cota 2110 Peachtree Rd N W TR 6-3020 \*Nickerson Co F C 1150 Zonolite Rd N E TR 5-8908 \*Pepper & 4-8266 & Assoc J B 1429 Peachtree St N E TR 4-8266
\*Smith Co Maitland K 208 14 St N W TR 5-8031
\*Southeast Eng'g Corp 3223 Cain's Hill Pl N W CE 7-2233
Taylor Co Morris F Hdgrs Silver Spring Md
Thornwell Inc E A 1537 Howell Mill Rd N W WA 3548 WA 3548
Wallace Assoc Stanley Hdurs Lutz Fla
Woodman Inc B S 1570 Northside Dr N W TR
2-5395 DECATUR

\*McCorvey Co V Avis 215 Church St DR 7-6167 E POINT \*Haydon Assoc Paul P 0 Box 331 P0 6-0261 \*Little W T 2396 Connally Dr P 0 Box 308 P0 1-5323 Illinois Hilinois

CHICAGO AREA
\*Angel & Co Jay C 2743 W Peterson Ave UP
8-0653
\*Arnold Co A W 1321 Rosedale Ave ED 4-6457
Bauman & Bluzat 2753 W North Ave
\*Bauman Sales Co Robt H 210 S Lodge Lane
(Lombard) LO 18
\*Beier Leroy W 6518 W North Ave BE 7-2420
\*Bierhaus J J 4804 W Madison St AU 7-2089
Blaker Co S C 2353 N Calif Ave AM 2-3727
\*Bluzat Co Rene 3035 N Larimie Ave PE 6-2238
\*Booth & Assoc Claude 4000 W North Ave CA 7-2810
\*Brouillette & Assoc 5049 Quinty St MA 6-0409 2810

\*Brouillette & Assoc 5049 Quincy St MA 6-0499

\*Bruning Co 2215 W Wilson Ave ED 4-0989

\*Burgoyne W E 7001 N Clark St H0 5-2112

\*Caine Sales Co 3020 N Cicero Ave SP 7-4022

Cappels-Rhodes & Assoc 1214 W Madison St 1

9-1818 Chambers Co Larry A 5906 W North Ave TU 9-Chambers to Latin A 4884
4884
Clears Co Gene T 435 Indianwood Blvd (Park Forest) SK 5-8359
Cole Sales Co G McL 6514 W Higgins Rd SP 4-3535
\*Cozzens Co Warren B 845 Chicago Ave (Evanston) DA 8-4800 \*Crossley & Assoc Alfred 4501 N Ravenswood UP 8-1141 8.1141
\*\*Cumming & Assoc Bruce 6029 W Belmont Ave ME 7-3770
Cunningham Assoc W L 435 Addison Ave (Elmhurst) TE 2-0905
Cushing Co L G 5832 No Rockwell St L0 1-1281
\*\*Diethert Co Russ 2030 W Montrose Ave L0 1-6831
\*\*Dolin Sales D 3553 Peterson JU 8-3738
\*\*Doyle Co W J 7002 N Western Ave R0 1-3130
\*\*Ellinger Sales Corp 6540 Northwest Hwy R0 3-1570 \*Ellinger Sales Co W H 6571 N Olmstead RO 3-4154 Ellis Co Arthur J 1607 Howard St AM 2-2708 \*Engineered Sales Co 3592 Milwaukee Ave PE 6-0555 \*Engle Co K D 4724 N Sheridan Rd UP 8-6363 \*Everett Assoc 6744 N California Ave AM 2-37! Parnsworth Assoc 228 N LaSalle St ST 2-6673 \*Felleisen & Assoc 5841 W Montrose Ave SP 1060 Ferguson Hille & Assoc 542 S Dearborn St WA 2-1824 \*Fitzsimmons Assoc Inc 6124 Milwaukee Ave NE Friedman Co Morton I 2814 W Balmoral Ave LO 1-4257 1-7660 6121 3-2132

\*Gassner & Clark Co 6644 N Western Ave RO 4-\*Gebhard Co H W 5129 W Devon Ave RO 3-3636
\*Gianaras Sales Co 2345 W Devon Ave AM 2-2100
Golten Co Jerry 2750 W North Ave EV 4-5959
\*Green & Assoc Loren F 5218 W Diversey Ave NA
2-2370 Haines E Ralph 949 Lake St (Oak Park) EU 6-4476 \*Halinton Harry Engineers 5500 W Devon Ave RO Haskell Assoc 202 N Marion (Oak Park) EU 6-5741 \*Hausten D R 607 E Willow Ave (Wheaton) WH \*Higgins Co Royal J 10105 S Western Ave CE 3-7388 \*Hill-Gray Inc 411/2 Harrison St (Oak Park) EU 3-0373 Hower & Pretat 4 N Cicero Ave CO 1-3146
\*Hunter Associates T B 4441 W Irving Park Rd
SP 7-2500 \*Hutmacher Assoc R R 6647 N Oliphant NE 1-3248 Jensen & Associates Fred A 510 N Dearborn St SU 7-3809 \*Jones Mel 2800 Milwaukee Ave EV 4-2646 Ka Dell Sales Assoc 5875 N Lincoln Ave LO 1-3042 3042 \*Karet-Margolin 13 W Hubbard St WH 4-6345 Kelburn Eng'g 3136 S Clarence Ave (Berwyn) ST 8-6485 \*Kleker Co Jerome H 177 Sunset Ave GL 2297 \*Knagps Co H W 7503 Melba Lane (Belleville) EX 7-2398

Knoblock & Malone 4000 W North Ave SP 2-9892
Kopetzky K A 13 W Hubbard St MI 2-2679
\*Krueger R 5306 W Lawrence Ave PE 6-3107
Lang Robert L 6677 Northwest Hwy SP 4-3610
\*Langhaus-Levy Assoc 2215 S St Louis Ave R0 2-6321
Levin Sacks & Assoc 2949 W Touhy Ave R0 4-7082
Lewis & Trimble 5420 W Fullerton Ave NA 2-0706
\*Linz Wm M 6322 N Cicero Ave MU 5-2022
\*Loubard Vernon PO Box 355 (Grays Lake) K116-1760
\*Lund-Hanisen Co 1900 W Montrose Ave L0 1-2551
\*Magnuson Assoc 3347 Irving Pk Rd KE 9-7555
\*Magnuson Co Edward 3349 W Irving Pk Rd JU 8-2613
Maher Eng'g Co 4335 W Peterson Ave PE 6-8747
Marsland & Co H W 6405 N Calif AM 2-1555
\*McBride Sales Co J J 328 E Burlington St (Riverside) RI 7-8131
\*McCarthy L C 7117 W Addison St KI 5-7976
Memac Sales 4740 N Austin Ave AN 3-5728
Meyers Kenneth W I S Norwest Hwy (Park Ridge)
\*Mulay Sales 4000 W North BE 5-7411
Murphy & Dickey 537 S Dearborn St
Newman-Krause Co 5306 W Lawrence Ave PE 6-6776
Peterson Arthur H 3647 E 62 St RE 5-0846
\*George C Petitt Co 349 Ashland Ave (River Forest) F0 9-8940
\*Pivan Eng'g Co 2820 Peterson Ave BR 4-9135
\*Proctor Sales Co 3401 W Diversey Ave
Quackenbush AI 605 N Michigan Ave MO 4-1904
Quick Howard L 1241 W Loyola Ave R0 1-0960
\*Ridgeway Eng'g Inc 6100 W North Ave SP 7-4526
\*Ridley Assoc 1551 N Austin Blvd TU 9-2940
\*Ritter Sales Co 5339 W Montrose Ave MU 5-7440
\*Rose & Co J K 2323 W Devon Ave AM 2-5584
\*Saffro & Gettleman Co 5209 N Kimball Ave JU
\*Sarkis & Co 5608 North Western Ave AR 1-3774
\*Schubert A J 8044 Kildrar Ave (Skokie) OR 3-7823
\*Smith Co Oren W 221 W Huron St SU 7-7919
\*Stemm R Edward 5681 W Lake St ES 9-2700
\*Stemm Royal A 21 E Van Buren St WE 9-4840
\*Sullivan Assoc F B 6022 N Rogers Ave Ke 9-4840
\*Sullivan Assoc F G 6025 N Michigan Ave M0
4-1904
\*Wirey Co S J 2353 N Calif Ave BR 8-1220
\*Wictoria Sales Co 1413 Howard St BR 4-5400
\*Wirey Co S J 2353 N Calif Ave BR 8-1220
\*Withers & Ropek 5439 W Division St AU 7-7292

Indiana

ANGOLA
Benz Sales Co P O Box 217
\*Clancy & Co Joe P O Box 269 AN 793
Law Instrument Co P O Box 95 217
FORT WAYNE
\*Bieberich W W 2817 Plaza KE 2928
Central Sales Co 255 Central Bldg EA 4635
\*Hoemig Sales Co Butler Court AN 2083
\*Homsher Burt F 2018 Jessie Ave EA 4920
Meily Co William A 4017 S Harrison Blvd KE 2461
Paul Sales Co 2212 S Calhoun St HA 0589
\*Southern CD 1605 Lincoln Tower AN 5278
\*Valentine Inc Forrest C 511 Ft Wayne Bank Bldg
AN 9122
INDIANAPOLIS
Baatz Sales Co 5934 Shimer Ave FL 6-0026
\*Blind & Co H J 1508 Winfon Ave BE 0191
Bernis Clancy 5750 N Ewing GL-7669
\*Crandall & Assoc R M 6220 E 56th St LI 6-8373
\*De Voe Co L M 4014 Washington Blvd AT 3-1395
\*Fishman Assoc 4440 N Campbell Ave LI 6-5477
Grantland James L 4221 N Lesley LI 7-2220
Law Instrument Co P 0 Box 6562 ST 7-0099
\*MacNabb Co Vernon C 820 E 64 St CL 5-6770
\*MacPherson-Thomas Inc 5226 N Keystone Ave CL 1-6915
Marsland & Co Hugh Hdgr Chicago
\*Morris Cuminingham & Mitchell 6101 College Ave
CL 1-3222
Murphy Joseph 202 Pam Rd VI 6-0359
Neff J R 3502 N Riley Ave LI 6-5824
O'Connell Co R D 4515 Berkshire Rd LI 7-7600
\*Reinhardt K G R R 10 Box 319L UN 2-4001
Ridneway Eng'y Assoc Hddrs Chicago
\*Schulz Co Edwin A 721 Sherwood Dr CL 5-1993
\*Whitesell & Assoc R 0 6620 E Washington St
FL 9-5374
Wright Eng'g 4241 Melbourne Rd WA 3-8888
SOUTH BEND
Karet-Marpolin Inc Hdgrs Chicago
SOUTH WHITNEY
Warner Assoc Richard P 0 Box 338
WARSAW
Turnbull R C 1650 E Smith St

#### owa

CEDAR RAPIDS
Bettis Co M E 1575 Henderson 1694
Harris & Co G E Merchants Nat'l Bank Bldg 2-6302
\*Vrbik Jerry 615 Guaranty Bldg EM 4-0833

ATLANTA

DAVENPORT
Midwest Equipment Co P 0 Box 532
Kay Sales Co Hdqrs Kansas City Mo
DES MOINES Midwest Equipment Co 842 5 Ave

#### Kansas

KANSAS CITY AREA
\*Koenig Sales Co 6359 Antioch Ave (Merriam)
HE 2-3166
\*Zimmer Sales 5620 Woodward (Merriam) HE
2-1121 \*Terwilliper Sales Co 7143 W 80 St (Overland Park) NI 2-2421
MISSION Inland Assoc 6047 Howe Dr RA 5-1736 WICHITA ICHTIA Harris Co George E 3241 E Douglas MU 3-9226 Industrial Assoc Electronics Hdgrs Ft Worth Kemco Inc P O Box 2552 Hillside Sta Perry Tom G 508 N Belmont MU 6-7441

#### Kentucky

LOUISVILLE Bilray Organization 3615 Brownsboro Rd TW 5-6339 Cobb Sales Co 1629 Portland Ave CL 9406

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#### Louisiana

NEW ORLEANS
Bornemann Walter E 4719 Cartier Ave FA 2504
Cartwright & Bean Hdgrs Memphis
Long & Wallick Associates 1544 Wakefield PI FA
3657 3657 Maguire Co J P 3144 Paris Ave BY 2751 Moore Co Earle K 5864 Louisville St AU 2407 Redmann S M 2322 Valmont St UP 3767 Texport Co Hdyrs Dallas

#### Maryland

BALTIMORE

ALTIMORE

Cerf & Co Art Hdgrs Newark NJ

Brown & Assoc W A Hdgrs Alexandria Va

Daniels Inc L J Box 6864 PL 2-7694

Drew & Co Wm Hdgrs Narberth Pa

Goodman & Assoc George 103 E 25 St BE 5-5570

Goodman & Assoc George 103 E 25 St BE 5-5570

Goodman Co S W 32 W Biddle St RO 4-2471

Jones William 1917 Redwood Ave NO 5-5060

Lee Assoc S S 630 Warwick Rd AR 3742

MacDonald Inc S K Hdgrs Philadelphia

Randall Co Hdgrs Philadelphia

Taylor Thomas L 2100 St Paul St BE 5-9126 BETHESDA Snow C E 6218 Wisconsin Ave OL 4-1767 ROCKVILLE ROCKVILLE

Ansell Eng'y Co 920 Halpine Ave HA 7-7370
Rosen & Assoc Gene 4402 Bayne St WH 6-6769
SILVER SPRING
Gawler-Knoop Hdgrs Roseland NJ
\*Lienau & Co C W 9427 Georgia Ave JU 7-5888
Maclen Corp 8616 Georgia Ave
\*Taylor Co Morris F 9431 Georgia Ave JU 9-4002
White & Co L G 8416 Georgia Ave JU 9-30402 \*Barnhill & Assoc R B 19 W Penna Ave VA 5-3431 Closs Co Thomas H 21 W Pennsylvania Ave VA 5-4445 Closs 5-4445
Habco Electronic Sales 603 Allegheny Ave
\*J-H Electronic Sales Co P 0 Box 6844 VA 5-4441
Jones William P 0 Box 6880 NO 5-5060
Maguire & Co Hdgrs Camden NJ
Valley Electronics 1735 E Joppa Rd VA 5-7820
\*Wilkinson Inc R L 707 Stevenson Lane VA 3-7800

Massachusetts **BOSTON AREA** \*Abbett & Hustis 16A Eaton Square (Needham) NE 3-5470 \*Akeroyd A E John Hancock Bldg HA 6-2433
\*Anderson Sales Co 177 State St CA 7-2980
Bell Dudley 669 South Ave (Weston) Mass WE
5-2165 \*Boeing J E P 0 Box 186 (Arlington) MI 8-2900 Bordewieck Eng'g Sales Co 221 Grove St (S Braintree) VI 3-0845 Bridge Co Ray 100 Memorial Dr (Cambridge) UN 4-3696 \*Broger Instrument Sales 48 Pearl St (Brookline) BE 2-4804 \*Brown Kenneth L 54 Atherton Rd (Brookline) BE 2-3969 Burlingame Assoc (Waltham) Hdgrs New York City \*Chamberlin H A Civilian Air Terminal CR 4-0044 \*Coakley Tim 148 Needham St (Newton Highland) DE 2-4800 Cowperthwait & Brodhead 131 Clarendon St CO 6-1825 6-1825
EAI (Hatick) Hdgrs Stamford
\*Eastern Electronics Sales 145 University Rd
(Brookline) AS 7-5675
Electrical Apparatus Co 1200 Soldiers Field Rd
ST 2-7440 Itron Eng'g 246 Walnut St (Newtonville) DE 2-6975

\*Gray Inc R W 572 Washington St (Wellesley WE 5-5296
\*Greene Dan P O Box 124 (Cambridge) UN 4-2220
Hankins Don T 161 Massachusetts Ave CO 6-4041
\*Harris Co Stanley A 317 Chestnut St (Needham)
NE 3-4780 NE 3-4/80 Hatton & Co A T (Newtonville) Hdqrs Hartford \*Hathaway Electronic Glenn M 238 Main St (Cam-bridge) KI 7-0380 Hendrickson W A 291 First Parish Rd (Scituate) Hendrickson W A 291 First Parish Rd (Scituate) SC 652 \*Hooker Inc S C 397 Highland Ave (Winchester) WI 6-2745 How Inc J Statler Office Bldg HU 2-4638 Instrument Associates 1315 Mass Ave (Arlington) MI 8-0756 MI 8-0756
Instrument Dynamics Inc 6 Abbott Rd (Wellesley Hills) 5-6892
Kaelber & Mack (Natick) Hdgrs Manhasset NY Kelly & Co W T 77 Lovett St (Beverly) WA 2-0065 Lavin Assoc H (Needham) Hdgrs Meriden Conn Limanni Co Michael A 3 Fulton St TR 6-5115 MacArthur Robt S 211 Beech St (Belmont) IV 4-4613 MacArthur Robt S 211 Beech St (Belmont) IV 4-4613
MacDonald-Wadman Co 457 Stuart St CO 6-2337
MacDowell Co R F 124 W Emerson St (Melrose)
ME 4-8893
\*Mosher & Peyser 945 Gr Plain Ave (Needham)
NE 3-5060
Muddle John V 509 Worcester Rd (Framingham)
\*Perron & Co Ray 1870 Centre St FA 3-1008
\*Pierce Stanley B 506 Washington St (Norwood)
Pettingell Assoc J M 201 Devonshire St LI 2-7013
\*Pray Sales Co W P 44 Washington St (Wellesley
Hills) WE 5-3199
\*Purinton R M 43 Leon St GA 7-6006
\*Reynolds Co Harrison 313 Washington St (Newton) DE 2-4620
Sales Eng' (Chelmsford) Hdgrs Bridgeport
Schuft Co Howard J 815 Washington St (Newtonville) LA 7-5304
\*Scott Michael 90 Edmunds Rd (Wellesley Hills)
WE 5-0102
Segel Co Charles 1262 Commonwealth Ave BE
2-2555
\*Segel Co Henry P 386 Washington St (Brookline) 2-2555
\*Segel Co Henry P 386 Washington St (Brookline)
BE 2-7525
Smith & Purdy 944 Main St (Walpcle) MO 8-2460
\*Stevens & Co K C 235 Bedford St (Lexington)
VO 2-1812
\*Sturgeon Inc Paul R 25 Huntington Ave CO 6-7705
Technical Instruments Inc 971 Main St (Waltham) TW 3-1400

TW 3-1400
\*Waters & Drew P O Box 208 (Arlington) MI 8-3510
\*Waters Inc R A 4 Gordon St (Waltham) TW 3-6900
\*White Sales Co 945 Great Plain Ave (Needham) NE 3-3676
\*Willson Jack E 4 Arrowhead Rd (Marblehead) NE 8-4016
\*Yewell Assoc Middlesex Tpk (Burlington) BU 7-2561
TTTSFIFID PITTSFIELD
MCKENZie & Co P O Box 604 PI 6255
SPRINGFIELD
\*Rodgers Assoc 199 Old Farm Rd RE 3-8428

#### Michigan

Michigan

DETROIT AREA

A B M Sales Co 10116 Puritan Ave UN 2-1300

Barnum Co H H 12201 Merriman Rd (Livonia)

KE 1-7504

Basic Service Corp 16544 Plymouth Rd VE 7-8820

\*Beitel Co Wayne 13209 Fenkell St VE 8-9100

\*Burcaw & Co K C 22128 Grand River KE 3-7700

\*Butchart R D 11327 Stockwell Ave LA 6-6551

Cawthorne Co T S 16607 James Couzens Hwy

Clark Nelson J 3850 Kensington Rd TU 5-1723

Dannemiller Assoc J R Hddrs Cleveland

Electro-Mec Assoc 109 E Nine Mile Rd (Ferndale)

LI 7-1422

\*Fitzner Inc B J 8803 Michigan Ave LU 4-0180

Goodman C H 191 W Fort St TA 5-8088

Great Lakes Mfrs Reps 5770 Artesian LU 4-2918

\*Haggerty-Ludwig Co 23525 Woodward Ave (Ferndale) LT 7-4771

\*Henschen Jensen & Co 2842 W Grand Blvd TR

1-0308

Hill Co Buryl R 19481 James Couzens Hwy VE

8-3460 8-3460
Kelly D R 15853 Cherrylawn DI 1-1690
\*Koehler-Pasmore Co 11833 Hamilton St TO 8-3322
\*Kurtz Co 7457 Fenkell Ave UN 3-2135
\*Liddle E F 18925 Grand River Ave VE 7-5310
Lohmann Co Sid 13331 Livernois WE 3-1128
\*Merchant & Co R C 18411 W McNichols St KE \*Milsk Co Robt 19371 James Couzens Hwy BR 3-3652 Moore Sales Co 401 Margaret W TU 3-0218 Morrow Sales Co James 85 Louise Ave (Highland Park)
\*Nordstrom & Co R C 580 N Woodward Ave (Birmingham) MI 4-1110
Odell Co M P Hdgrs Cleveland
Pierce Co J L 16666 James Couzens UN 2-2571
Pranne Eric 0 2832 E Grand Blvd TR 2-5703
\*Rathsburg Jack 4140 Van Dyke Ave WA 1-3932
Rubin Ben Z 16222 Cheyenne Ave UN 4-4958
Satullo Co 4512 N Woodward (Royal 0ak) J0 \*Gerber Sales Co 48 Pearl Street (Brookline) BE 2-2425 Goode Assoc J J 211 Eliot St (Ashland) TE 2-4485 Goss Co Jack 99 Highland Ave (Somerville) PR 6-2262

II Co I 8-3460

5-6000

6-2376 \*Scott T T 10116 Puritan UN 1-4434

\*Shaffer Co Grant 14241 Fenkell Ave BR 3-5390 Spenser Co Willard 20158 Santa Rosa Dr UN 3-5189 3-3LOY Sterling Co S 15310 W McNicholas Rd BR 3-2900 Tant Enterprises 16254 Meyers Rd UN 4-0738 \*Thorpe J M 640 Hidden Lane TU 4-4360 Vogt Martin 1328 Maxwell Ave (Royal Oak) LI Vogt Martin 1328 Maxwell Ave (Royal 1-1192 \*Zaffina L F 7351 Gratiot Ave WA 1-2885 FLINT Robbins Inc Sam 230 E 1 St CE 5-7310 JACKSON Jordan E H 2024 Glen Drive 2-0694

#### Minnesota

MINNEAPOLIS

INNEAPULIS
Aaron & Assoc I I Ndgrs Milwaukee
Anderson & Assoc 3825 York Ave N JU 2523
Bartleson Co Bill 330 Oak Grove St AT 6709
Electrical Jobbers Equip Co 619 Fourth Ave So Anderson & Assoc 1825 York Ave N JU 2523
Bartleson Co Bill 330 Dak Grove St AT 6709
Electrical Jobbers Equip Co 619 Fourth Ave So
FE 6-6321
Elstad Sales Co Lester L 6012 Wayzata Blvd
Foster Mel 2402 Hennepin Ave FE 6-5622
Franklin Merrill K 338 E Franklin Ave GE 1805
Gibb Clark R 1409 Hennepin Ave LI 2550
Hagestad & Assoc E 0 3121 Cirard Ave S Apt 5
L0 4-4835
Hamitton & Co Don V 2718 W 43 St WA 6-2749
Hammond Co 311 W Minnehaha Pkwy RE 2069
Heimann Co 1711 Hawthorne Ave FE 2-5457
Heyda Bonament 6101 Auto Club Rd TU 1-9166
Hill Co Fred B 6110 Excelsior Blvd WE 9-6727
Kirkeby M H 1300 France Ave S FR 7-3239
Laub Co Nick J 4719 Quail Ave No OR 7-7000
Marshall Robert W 6106 Excelsior Blvd WE 9-6444
Marsland & Co Hunh Hdurs Chicano
Northern States Sales 1400 Park Ave FE 6-4808
Oszman E W 12 E 25 St
Peterson Co Fred 2431 Hennepin Ave FR 7-3025
Pinkney & Hine 1925 Nicollet Ave LI 0523
Richardson & Co H M 9 E 22nd St GE 4078
Ripley Ray 6937 Penn Ave S
Schultz Co D A 801 S E 8 St FI 7701
Volco Co 831 S 6 St FE 6-3373
Vore Fred D 6446 Xerves Ave So WA 2-1293
Warner Co A J 5022 29 Ave S PA 9-7371
ST PAUL
Benson Co E R 2651 University Ave MI 4-5197
Crossley Assoc Hdgrs Chicago
Engelbretson W J 996 Ottawa Ave CA 2-2338
Gilbertson Co Dave 1953 University Ave MI 4-3329
Hoffman Edward 1641 Scheffer Ave MI 9-3371
Northpot Eng'g Inc 186 N Fairview MI 4-7884
Rayon Inc R G 1406 W Idaho Ave MI 6-6937

#### Missouri

ANSAS CITY

Automatic General SLS 6550 B Troust Ave DE 3-8206

Bettis Co M E 406 W 34th St L0 1-0772

\*\*Clemenson Co R F 436 E 79 St JA 3-3005

Collins-Havercamp Assoc 6217 W 77 St NI 2-6153

Economy Sales Co Broadway at 34th St

\*\*Elliott Co Arthur K 211 Westport Rd L0 1-9594

Engl's Services Co 4550 Main St EN 2-8862

\*\*Farris Co R W 406 W 34 St L0 1-7495

\*\*Florence Co L F 406 W 34 St L0 1-7282

\*\*Forristal-Young Sales Co 4057 Broadway VA 1-5330

\*\*Fry W E 406 W 34 St JE 1-5236

Harris & Co George E 701 E 63 St DE 9600

Harris-Hanson Co 7916 Paseo Ave

Kathrinus & Co N W Hddrs St Louis

\*Kay Sales Co 2600 Grand Ave BA 1-3800

Kelly Co W G 5534 Prospect Ave EM 3-1207

\*\*Larrabee Co F H 4638 Nichols Pkwy L0 1-2520

Lee Mark Assoc P 0 Box 8467 JA 3-9299

\*\*Maynard Co L W 139 Central Ave PA 5-3723

McDowell-Redlingshafer Sales 1103 E Armour WE KANSAS CITY

McDowell-Redlingshafer Sales 1103 E Armour McDowell-Redlingshafer Sales 1103 E Armour W 1-5622

\*McGrade E W 4528 Main St LO 1-3709

Morse Sales Co 1103 E 47 St VA 1-4442

\*Myers & Assoc Zell S 4538 Main St JE 1-727

\*Roes & Co H A 2601 Cherry St BA 1-0866

\*Schmitz Co J O 406 W 34 St LO 1-9824

\*Scholz Co P G 210 W 8 St HA 1-7111

\*Schryver Sls Co C H 4550 Main St LO 1-4826

Schwerin E B 4210 Main St WE 7564

\*Somers & Co F C 1805 Grand Ave GR 1-1355

\*Thibau Co A R 210 W 8 St VI 2-7057

Wells-White Co 3937 Main St JE 1-6400 1-7271 ST LOUIS AREA

Carmine-Paden Assoc Box 569 (Jefferson City) 5-1023 Ellis Co Arthur J 1110 S Brentwood Blvd V0 1-3005 Eng'g Services Co 6635 Delmar Blvd VO 3-3661 Fixman Eng'g Gordon 8160 Stanford Ave PA 5-5219

5-5219
\*Forristal-Young Sales Co 8147 Delmar PA 5-7701
Fry & Co W E Hdgrs Kansas City
Harris-Hanson Co 2814 S Brentwood Blvd MI
7-4350

7-4350
\*\*Instrument Eng'g Labs 5508 Lillian Ave
\*\*Kathrinus & Co N W 4356 Duncan Ave OL 2-7005
Knaggs Co H W 106 Lucas St CE 1-1853
Lee Mark Assoc 1500 Bin Bend Blvd
Lorenz Rudie C 413 E Maddison (Kirkwood)
\*\*Lowell T B P O Box 21 (Normandy) EV 5-7803
MacDonald & Co B C 3829 W Pine Blvd JE 1-9266
McGary Co W T 6635 Delmar Blvd DE 6430

McGrade Co E W 1110 S Brentwood PA 5-6550
Miller Co E B 6636 Clayton Rd MI 7-4252
Murty Edwin H 3505 Ridgedale Ave EV 5-7728
Roes & Co H A Hdgrs Kansas City
\*Sebright & Co Russ D 7120 W Florissant EV
2-8258
Taylor Emmet Taylor Emmett P 1 Craig Lane (Creve Coeur) HE 2-6001 Wells-White Co 6625 Delmar Blvd PA 7-7622 Winkeler & Assoc H F 3938 Lindell Blvd OL 2-6455

#### **New Hampshire**

SALEM Limmani Co Michael A Box 391 TW 8-3588

#### **New Jersey**

NORTHERN N J (See New York N Y Area) SOUTHERN N J (See Philadelphia Pa Area)

#### New Mexico

ALBUQUERQUE LBUQUERQUE
Bowen Co R G P O Box 3177 Sta D 5-4603
C G Electronics Corp 305 Dallas St N E 6-6121
Gates Co Hdgrs Salt Lake City
Hyde Sales Co 2229 Utah St N E 5-8360
Industrial Assoc Electronics Hdgrs Ft Worth
Kittleson Co Hdgrs Los Angeles
McClendon R E 3907 Central Ave E 6-4983
Miller Gerald B Hdgrs Hollywood
Neely Enterprises Hdgrs N Hollywood
Neely Enterprises Hdgrs N Hollywood
Rupp Co V T Hdgrs Los Angeles
Shefler Co H G Hdgrs Phoenix
Williams & Assoc Hdgrs Denver

New York State ALBANY LBANY Carse Electric Corp 1044 Broadway AL 3-3628 Ossman & Assoc Ed A 28C Weis Rd AL 8-5833 Reagan Co J A 242 Hackett Blvd AL 8-5155 BINGHAMTON INGHAMIUN Allen Inc Ned P O Box 575 Ball Assoc Hddrs Orchard Park Holliday-Hathaway Hddrs New York City Johnson Agencies Inc H C 9 Ivan Lane 3-5889 Allen Inc Leonard D 128 Knox Ave WO 1500 Automation & Control Co 1807 Elmwood Ave BE 3882
Costello J V 547 Ellicott Sq Bldg MA 2351
\*Farber Assoc Maury 70 W Chippewa St M0 3543
Hanson Gunnar 180 Merrimac St
\*Jackson Co R W 833 Ellicott Sq Bdg MA 3306
Johnson Agencies H E 422 Niagara Falls Blvd
W1 1431
Lamb Co Robert F 1807 Elmwood Ave BE 3757
Mitscher Co R W 487 Ellicott Sq Bldg WA 2517
Wall Assoc 19 University Ave PA 0730
EWITT Wall Assoc 19 University Ave PA 0730

DEWITT

Marron George Kallusch Bldg 75-1686

Smith P F 4 Morton Rd SY 72-4841

Taylor Co Frank W P 0 Box 222A SY 72-5198

Wulfetange Jr J F 4505 Genesee St E

FAYETTEVILLE

Andrews M P 319 Mott Rd NE 7-6405

Johnson Agencies H C Hdgrs Rochester

MacNeill Paul 100 Wellwood Dr

\*Wadsworth Mfg Assoc 509 Balsam St OL 2-7043

NEW YORK CITY & METROPOLITAN AREA, Including Northern New Jersey. "Reps" having no city name following local address are in New York City proper.

\*Aaron Paul D Professional Bldg (Port Washington NY) 7-5570

Adelman Co Leon L 25 Chittenden Ave T0 7-1145

Aqress C M 891 Fulton St (Valley Stream NY)

VA 5-8955

Aironic Accessory Co 161 Orinoco Dr (Brightwaters NY) DEWITT

Aironic Accessory Co 161 Orinoco Dr (Brightwaters

NY)
\*\*Baum & Co Sidney H 70-15 Fleet St (Forest Hills NY) B0 3-8101
\*\*Baume Electronic Sales 44 Cranberry Lane (Bethpage NY) WE 1-7769
\*\*Be-Esco Assoc 45 S Broadway (Yonkers NY) Y0 3-1709
\*\*Betha Cole Manh A Care and A Sales Manh A Sales M

3-1709
Bettan Sales Marty 167-16 73 Ave (Flushing NY) OL 7-6659
Bialek Assoc Samuel 205 E 42 St MU 4-1655
\*Bittan Co D R 104 S Central Ave (Valley Stream NY) LO 1-2444
Bittan-Shafer Sales 120 E 32 St MU 4-2229
\*Blair-Steinberg Co 45 S Broadway (Yonkers NY) YO 3-0150

YO 3-0150

\*\*Proversion of the street of

Burlingame Assoc 103 Lafayette St DI 9-1240 \*Camber Marty 1700 York Ave EN 9-4222 \*Cardoner Sales Corp 80 Shore Rd (Port Washington NY) 7-7712

\*Cerf & Co Art 744 Broad St (Newark NJ) MI 2-6734

Components Sales Corp 218 E Hartsdale Ave (Hartsdale NY) SC 5-1050

VI S. C. LUSU Main St (Port Washington NY) 7-0470

Crofton Assoc T J 30 Rockefeller Plaza CI 7-5782

Director Assoc Murray 115-62 237 St (Elmont NY) CU 5-6823

\*Drexler Chester 509 Lombardy Blvd (Brightwaters NY) BA 7-1576 \*Egert Co S S 97 Reade St W0 4-0996 Electrical Mfrs Service 1784 Fulton Ave (E Meadow NY) IV 3-2424

NY) IV 3-2424
\*Electro Tech Assoc 187-61 Hollis Ave (Hollis NY) AX 7-3525
Ellis & Assoc Harold R 217-27 47 Rd (Bayside NY) BA 9-3622
Engel & Assoc G Curtis 75 N Maple Ave (Ridgewood NJ) GI 4-1400
\*ERA Inc 340 Great Neck Rd (Great Neck NY) HU 2-9320
Faber & Assoc Inc R L 1246 Broad St (Bloomfield NJ) ED 8-6900
Fields Sales Co Jack 5 Howard St (Verona NJ)

Fields Sales Co Jack 5 Howard St (Verona NJ) PI 6-6717

\*Finlay Robert 307 Lincoln Bldg (Ridgewood NJ) OL 2-0088

OL 2-0088
Fogelberg John P O Box 115 (Baldwin NY) 3-9351
\*Forrest B J 102 Warren St CO 7-1712
\*Forshay Sales Co 27 Park PI BA 7-4977
Frazer & Hansen Ltd 120 Broadway WO 4-3454
\*Freed & Co Leo 420 Lexington Ave LE 2-4771
Friedman Co Adolgh 519 S 57 Ave (Mt Vernon NY) MO 4-4856
Freudenberg Inc B 240 W 98 St UN 5-8075
\*Falasso D P 921 Bergen Ave (Jersey City NJ)
JO 4-7277
Garten & Asson Louis A 645 Fanle Rock Ave

JO 4-7277
Garten & Assoc Louis A 645 Eagle Rock Ave (W Orange NJ) RE 1-1800
Gawler-Knoop Inc 178 Eagle Rock Ave (Roseland NJ) CA 6-4545
Glass Assoc Ed 250 W 57 St JU 6-8440
Gramercy Sound Assoc 175 5 Ave AL 4-0986
Gray Assoc Harold 21-10 33 Rd (Long Island City NY) YE 2-3825
Greenberg Jerry 29 Woodmere Blvd (Woodmere NY) FR 4-3748
\*Gross Assoc Adolph L 23 Park PI W0 4-8585
Gutzeit & Assoc J M 50 E 42 St MU 2-6770
\*Hacker Morris 217-18 48 Ave (Bayside NY) BA 4-5361
Harris Arthur M 42-34 195 St (Flushing NY)

Harris Arthur M 42-34 195 St (Flushing NY) FL 7-7350 Hess Assoc Art 62-07 68 Ave (Glendale NY) HY

7-7498

7-7498
\*Hicks W M 4 Struce Dr (Roslyn NY) MA 7-6150
\*Hicks W M 4 Struce Dr (Roslyn NY) MA 7-6150
\*Hoffman H L 804 Newbridge Ave (Westbury NY)
ED 4-5600
Holliday-Hathaway Co 120 E 56 St MU 8-5858
\*Hughes Co Kenneth E 4808 Bergenline Ave (Union City NJ) UN 7-3204
Hunter & Salisbury 87 Broadway (Hicksville NY)
WE 8-1080
\*Hy-Art Co 53 N Park Ave (Rockville Center NY)
6-6500
Jackson Jim 9 Lincoln Ave (Port Chester NY) WE
9-4218
Joseph Assoc Ben 43 S Middleneck Rd (Great Nack

Jackson Jim 9 Lincoln Ave (Port Chester NY) WE 9.4218
Joseph Assoc Ben 43 S Middleneck Rd (Great Neck N Y) HU 7.9395
\*Kaelber & Mack 1 Park Ave (Manhasset NY) MA 7-1459
Kahant Assoc 11 Park Pl CO 7-5326
\*Kahyan J J 1261 Broadway MU 4-7772
Karns Co Sam 36 Oak Ave (Tuckahoe NY) WO 1.9391
Kee Enterprises 97 Reade St WO 4-0996
\*Kopple Assoc 9 W Prospect Ave (Mt Vernon NY) MO 4-5577
\*Kubrick-Yurman 200 W 34 St BR 9-6517
\*Land-C Air Sales Co 140 Marbledale Rd (Tuckahoe NY) WO 1.4700
\*Landis Sales Co Cliff B 81-11 Roosevelt Ave (Jackson Heights NY) IL 8-7900
Leeds Co Gerald G 12 Crampton Lane (Great Neck NY) HU 2-7784
\*Levinson Sales Co 545 5 Ave MU 2-8834
\*Lichter Co Wm 26 Teakwood Lane (Roslyn NY) RO 3-2636
Livera & Assoc A L 4 Green Village Rd (Madison NJ) FR 7-3220
L & M Assoc P O Box 641 (Fair Lawn NJ) FA 4-7050
Luce & Co R P 7 Beechwood Pl (Summit NJ) CR 3-9250

Luce & Co R P 7 Beechwood P! (Summit NJ) CR 3-9250

asin Co O F 1 Wolf Lane (Pelham NY) PE 8-4510 8-4510 Merican Co J C 1 Christopher St AL 5-6387 \*Miller Ben P 0 Box 72 (Little Neck NY) BA

4-4673

4.4673
\*Miller Co Harry 27 Mechanic St (Red Bank NJ)
SH 1.9300
\*Mingins-Shaw Sales 107-37 71 Ave (Forest Hills
NY) B0 3.1643
M & N Assoc 1776 Broadway CI 5-7802
\*Mores Sales Irving 150 Broadway CO 7-2913
Murray R T & W A 604 Central Ave (E Orange
NJ) OR 5-9038
Mydans & Steliner 1865 Morris Ave (Union NJ)
MU 6-0977 MU 6-0977

\*Newhope Corp 6 E 39 St LE 2-7372 \*Pickett James M 205 E 66 St TR 9-9520

Puleo R S 5 Whittier St (Lynbrook NY) LY 9-4875

9-40-75 Reizes H N 1473 Sylvia Lane (E Meadow N Y) Richardt Co John W 234 N 18 St (E Orange NJ) OR 6-7719 RMC Assoc 236 E 75 St

\*Rockbar Corp 650 Halstead Ave (Mamaroneck NY) MA 9-7300

R & S Electronic Sales P O Box 217 (Hempstead NY) PR 5-7852 \*Saftler Assoc Corp 157 W 57 St CI 7-3855 Scheffler Co Charles 1124 Oouglas Rd (Seaford NY) SU 1-4656 \*Schmitt Co F E 136 Liberty St WO 2-6550

\*Schwartz Adolph 15 Exchange Pl (Jersey City NJ) DE 3-2424

Schwartz Mel 39-16 Tierney Pl (Fair Lawn NJ) 4-3435

Scott Co Geo G 6 Stuart Dr W (Glen Cove NY)
OR 6-2088

\*Shaw Co S A 444 Kneeland Ave (Yonkers NY) YO 3-5700

\*Shulan & Co Wally 880 Bergen Ave (Jersey City NJ) SW 5-2220

\*Simbelkoff Sales Co 68 Hudson St (Hoboken NJ) OL 6-5211 Smith Co J F 16 Northfield Ave (W Orange NJ) OR 6-6818

\*Smith Howard F 259 W 14 St CH 2-2398 Snyder Co V A P 0 Box 184 (Union NJ) MU

8-6100

\*Sonkin Assoc David 10 Fiske PI (Mt Vernon NY) MO 8-9809

\*Spellman Co Fred 2CO Plandome Rd (Manhasset NY) MA 7-3399

\*Sprung Assoc Joseph 254 W 31 St LO 5-1820 \*Stang Sales Co 1 Crestwood Lane (New Rochelle NY) NE 6-6622

NY) NE 6-6622 Stollmack Michael W 67 Dorchester R1 (Emerson NJ) CO 1-2313 \*Sussman Jules 130 Lafayette St WO 2-7766 \*Taylor Corp B B 241 Sunrise Hwy (Rockville Centre NY) R0 4-6000 Technical Reps Inc 69-10 140 St (Flushing NY)

LI 4-5058

LI 4-3UD8
\*Tobias & Co D F 30 Church St CO 7-4349
Turney & Beale 214-27 Northern Blvd (Bayside NY) 4-4000
Tylinski Frank 73-63 Bell Blvd (Bayside NY) H0
4-8927

4-692/ Verter Sales Co Sol 1195 Sherman Ave (Bronx NY) CY 3-0211 Weber Assoc Jack Route 18 (Old Bridge NJ) \*Weiland Geo H 76-49 168 St (Flushing NY) OL 8-4061

\*Weiss & Assoc W W 1780 Broadway CI 6-5777

\*Willgold Electronic Sales 100 N Village Ave
(Rockville Centre NY) RO 4-4022

\*Woolf Assoc Irving W 1860 Broadway CI 6-0120

ORCHARD PARK

\*Ball Associates Inc 58 E Quaker Rd ID 4416

PHELPS

Le Roy & McGuire R D 1 KI 8-4891 ROCHESTER

OCHESTER
Electro-Rep Sales Co 187 Culver Rd GR 7398
Gisalson Sales Inc 617 Case Bldg
Johnson Agencies Inc H C 111 Mt Hone Ave HA
6-1090
Kaufman Warren 90 Norton St
Kennedy Co R P 182 Mavflower Dr
Ossmannn & Assocs E A 830 Linden Ave CU 7635
Reed-Tollefson Corp 2815 Monroe Ave HI 0450
Richter Co William 650 Linden Ave HI 5-0580
Rittenhouse Co H J 311 Alexander St BA 2340
Schmitz A W 82 St Paul St HA 6-3090
\*Wolfe-Marsey Sales 74 Park Ave GR 9088
Young Assoc 520 East Ave HI 4468
CHENECTADY

SCHENECTADY Redford Corp Box 1067 EX 3-3061 SODIIS

Decew Agcy Alan E 13 High St 3261 SYRACUSE

\*PARCUSE
\*Allen Inc Leonard D 2401 S State St 4-4195
Bouton Jerry 327 Wellsley Rd 4-8314
Burlingame Assoc Hdgrs New York City
Callahan W J 156 S Edwards Ave 73-2151
Donohue Dillon 105 Smith Lane
Franklin Co W A 3 Holly Rd 54-3383
Hotze I A 753 James St 9-7387
Johnson Agencies H C 205 Harrison St 74-8504
Naylor Electric Co 1115 Hills Bldg SY 2-3894
Ossmann & Assoc E A 308 Merritt Ave SY 9-3825
Paston-Hunter Co 609 Demong Drive 72-0656
Ryerson Assoc Inc J D 412 E Genesee St 76-8344
\*Stone J L 221 Dorchester Ave 73-4280
\*Swank Wally B 2310 Bellevue Ave GR 8-2141
\*Wolf O C 15 Centennial Dr 4-7723
Wulfetange Jr J F State Tower Blúg SY 3-8013
\*Zimmerman W H 647 Warren St 74-4889

Romano & Kroeger 1604 Lincoln Ave 5-6484 Servatius John 910 Shaw St UT 2-8177

#### North Carolina

CHARLOTTE Cartwright & Bean Hdgrs Memchis Furman & Assoc C M 1228 Harding PI ED 4-7855 Glenn & Larson 1043 A Providence Rd ED 4-3994 Haney & Co Howard R 3236 Draper Ave FR 5-6546

5-6546
Henry Jr W E P O Box 6073 ED 5-8958
Highsmith & Co James L 100 Altondale Ave FR 5-6436
\*\*Howard & Co F M 2908 Avondale Ave FR 5-6646
Larco Eng'o Inc 123 Brevard St
Murphy & Cota Hdgrs Atlanta
Wallace Assoc S K Hdgrs Lutz Fla

GREENSBORO \*Atcheson & Adams 601 N Elm St BR 2-6838 Hollingsworth & Still Hdors Atlanta Tonkin Shiffer Co 1039 Westside Dr RALEIGH

Hanner Co John C 2817 Kittrell Dr TE 4-8924 WILMINGTON

WILMINGTON

\*Mfrs Sales Agency 4924 Oleander Dr WI 5749

WINSTON-SALEM

Hilker Co 421 28 St N E 4-2084

Holliday-Hathaway Hddrs New York City

Murphy & Cota Hddrs Atlanta

White & Co L G P O Box 2356 5-3612

CINCINNATI Baehr Greenleaf & Assoc Hdgrs Cleveland Gallagher Co 15 Ritchie Ave PO 1-1288 Murray James W 5673 Green Acres Court HU

Murray James W 56/3 Green Acres Court HU
1-9726
Olsen Co John O 7870 Jolain Dr TW 1-6140
Satullo Co Hdqrs Royal Oak Mich
Sheridan Assoc Roselawn Center Bldg ME 1-2460
Wahl Co A C 416 W Benson St W VA-3270
Whitesell & Assoc R O P O Box 2717 ME 1-9210
CLEVELAND AREA

\*Ambos-Jones Co 3951 Lee Rd SK 2-3030 \*Baehr-Greenleaf & Assoc 14700 Detroit Ave LA

1.8486
\*Baier Co A H 12429 Cedar Rd FA 1-5644
Blocki Assoc Bill 3843 Darrow Rd (Stow) OV
8-4277
\*Brauer J 15631 Lakewood Hts Blvd LA 1-7268
Clark Sales Co Box 708 PR 1-2241
Dannemiller Assoc J R 3955 Lee Rd LO 1-4567
\*Daugherty Co F A 1120 Croyden Rd HI 2-3311
Deunk & Assoc Robert K 14820 Detroit Ave AC
1-2561
\*\*Polfuss & Co C B 2309 Page 1

\*\*Dolfuss & Co C H 2108 Payne Ave PR 1-1270

\*Edwards-Lohse & Co 2123 9 St TO 1-5753

Electro Sales Assoc 281 E 216 St (Euclid) RE

2-7444
Elliott Co Howard E 2637 E 130 St FA 1-4463
\*Goory Sales Co 19555 Henry Rd CL 1-1500
Greenleaf R R 8905 Lake Ave AT 1-1060
Henger-Fairfield Co 1812 Columbus Rd CH 1-1018
Herrick Co George L 15326 Lorain Ave 1-4406
\*Landfear Co J M 12429 Cedar Rd Rm 8 FA
1-4533
\*\*Lavis & Arcep Sid 6252 Mayfield Rd HJ 2-8340

1-4533
\*Levin & Assoc Sid 6252 Mayfield Rd HI 2-8340
\*Midwest Sales Co 3219 W 117th St WI 1-2700
\*Morrow Co Leslie A 3123 W 117 St CL 1-5700
\*Nace Co Allen 7601 Parkview Rd (Brecksville) JA 6-4323

\*Nate Lo Allen /801 Parkview Ro (Breckville) JA 6-4323

Odell Co M P 26614 Center Ridge Rd (Westlake) TR 1-8000

\*Olson Co John 0 16201 Shaker Blvd WY 1-2624 Oros Sales Co E G 1194 Croyden Rd HI 2-5024

\*Rauer Frank W 4144 Marvin Ave ME 1-8350 Robinson C A 4143 Mayfield Rd EV 1-9049

Rosenwasser Fred A 13769 Cedar Rd FA 1-0463

Roth Sales Co Mike 13947 Cedar Rd YE 2-4262

Satullo Co Hdors Royal Oak Mich Schroeder Sales Co 2309 Prospect Ave MA 1-5075

\*Scott & Steffen 1836 Euclid Ave TO 1-2626

Service Equipment Electronics 4500 Euclid Ave HE 1-7030

Sharp Co Fred R 2138 Lee Rd FA 1-4200

Sterline Co S 4311 Mayfield Rd EV 2-4114

Stofer & Bro Gordon F 2400 Superior Viaduct SU 1-3535

Teplitz & Co Harvey 27190 Forestview Rd RE

SU 1-3535
Teplitz & Co Harvey 27190 Forestview Rd RE
1-5676
Thomas Eng'g Co Ellendale Rd (Chagrin Falls)
CH 7-7786
Wagner-Green Co 1935 Euclid Ave MA 1-6382

COLUMBUS NLUMBUS
\*Derr Co N F 937 S Ashburton Rd BE 1-2603
\*Lehner Co J W 367 Brynhild Rd AM 8-5260
\*McCradden Co Wm E 150 E Broad St CA 1-3363
\*Pugh Co C L 2144 Riverside Dr HU 8-4855
Schenck Assoc P O Box 223 (London) LO 1555
Seay Co H H 1035 Grandon Ave BE 1-3043

AYTON
Baehr Greenleaf & Assoc Hdgrs Cleveland
Bek Assoc Box 53 Dayton View Sta
Bucher & Assoc J G 205 E 1 St
Carney & Assoc Jack 905 Knott Bldg FU 3943
Crossley Assoc Hdgrs Chicago III
Dannemiller Assoc J R Hddrs Cleveland
Epps & Fedotin 1434 Vancouver Dr TA 9345
Klein Bill 1472 Earlham Dr
Kohler Assoc Finie 2600 Far Hills Ave 0X 2813
Magee & Co Ed 2600 Far Hills Ave (Kenia)
Scott & Steffen Hddrs Cleveland
Siff & Assoc Robert G 341 N Robert Blvd
Teplitz & Co Harvey 3543 Cornell Dr OR 9178
Tetelbaum Stan 1517 Benson Dr HE 7128
Thomco Electronic Co P 0 Box 181 N D Sta
HE-4734 DAYTON

Thomco Electronic Co P O Box 181 N D S HE-4734 Whithy Co H W 25 Main Bldg South FU 6377

TOLEDO Chilcote Jim 636 Nesslewood Ave CH 1-3826 Sallade A 3683 River Rd
WEST RICHFIELD
\*Baer Corp Neal 3435 Streethoro Rd OL 9-3331
WORTHINGTON
\*Weller-Rahe Co P O Box 212 TU 5-1819

#### Oregon

PORTLAND
\*Burcham Co Don H 510 W 19 Ave CA 7-3830
Carlson Fred W 935 Northwest 12 Ave AT 3798
Donal Co P O Box 7013 CA 2-4343
Eckersley James W 3150 S W Hamilton St CA
8-0308 Hawthorne Electronics 700 S E Hawthorne Blvd BE 4-9375 BE 4-9375
Kearns Co James L 6055 N E Glisan St
Lee Co Dave M Hders Seattle
\*Legy Co R R 1633 W 21 Ave CA 3-9720
McMillan Co A C 10111 S W 62 Ave CH 4-1311
\*Minthorne Co L L 7521 N E Glisan St AL 3-0010
Northwestern Agencies Hdgrs Seattle
Porter Co Burt C Hdgrs Seattle
Tudor Associates J A 1004 S E Belmont St BE
2-1188
\*Weber Co Dale G 234 Sherlank Blad CA 8-5403 \*Weber Co Dale G 234 Sherlock Blvd CA 8-5403

#### **Pennsylvania**

LANCASTER Hatfield R E 165 E King St LEWISBERRY

LEWISBERRY
Eherle Wm P R D 1 PO 6-3995
PHILADELPHIA AREA including Southern New Jersey. "Rets" having no city following local address are located in Philadelphia.
\*Andro Sales-Eng'y 5823 Greene St VI 4-9100
Angus-Sloan Assoc (Moorestown NJ) BE 9-1900
Arnold Assoc 2202 Tyson Ave DE 3-5345
Bancroft & Co 209 Cooper St (Collingswood NJ)
Co 5-5210
Barbhill & Assoc R B (Camden NJ) Houre Towson

Barnhill & Assoc R B (Camden NJ) Hdgrs Towson Md
\*Biggs & Co J Alan Box 450 (Doylestown Pa)
FI 8-9457

Blumenstein Assoc 14 Trent Rd MI 9-9523 \*Boenecke Assoc 638 Penn St (Camden NJ) WO 4-8650

Braddock Edward P O Box 305 (Haddonfield NJ) HA 9-0087

\*Brookfield & Co 53 Cricket Ave (Ardmore Pa) MI 2-6911 Bryans W Robt 2634 Kirk Ave (Broomall Pa) EL 6-1359

Burlingame Assoc (Upper Darby Pa) Hdgrs New York City \*Cooper Richard J 3507 Welligton St MA 4-5486 \*Corday Sales Co W H 18 W Chelten Ave VI 8-0447

8-0447
Danco Corp (Fairview Village Pa) BR 5-2600
Dienes Co Herbert L 1505 Parer Mill Rd (Erdenheim Pa) CH 7-3454
Drew & Co Wm 104 Essex Ave (Narberth Pa)
M0 4-5766

mu 4-5766
Duncan & Assoc Wm I 5452 Charles St CU 9-7525
\*Edmunds E J 101 Lexington Ave (Havertown Pa)
HI 6-6472
Esterschn January

HI 0-04/2 Estersohn Harry 424 E Allens Lane CH 7-9345 \*Fairbanks Co H J 1615 Darby Rd (Havertown Pa) GR 2-2467 \*Foley A 640 Federal St (Camden NJ) WO 6-2550

\*Friedman & Assoc Martin 1006 W Savings Fund Bldg PE 5-4778 Gatty Sidney H 1177 Clermont Ave (Margate NJ) AT 3-1361

AT 3-1361
Gawler-Knoon Co (Wyncote Pa) Hdors Roseland NJ
Gerry & Co M E 228 Long Lane (Upper Darby Pa)
GR 6-2540
Glaser Co J L 33 E Wynnewood Rd (Wynnewood
Pa) MI 2-9242
Hautenschied Geo DEC Marrie Co Co

ra) MI 2-9242 Hautenschied Geo 950 Marcella St JE 5-1768 Hile Co Charles R Hillview Rd Box 144 (Paoli Pa) EL 6-2266 Hilliard Assoc 1125 Old York Rd (Abington Pa)

TU 4-6100 \*Jeffries Samuel A 105 Forrest Ave (Narberth Pa) MO 8-8500

Electronic Sales 228 E Kings Hwy (Had-\*Keefe

\*Keefe Electronic Sales 228 E Kings Hwy (Haddonfield NJ) MA 7-3454
\*Leban & Graham 1421 Manoa Rd MI 2-0668
\*Lewis Co Herman 1622 68 Ave LI 8-1281
\*Lowery Inc L D 50 E Wynnewood Rd (Wynnewood Pa) MI 2-9100
\*MacDonald Inc Samuel K 1531 Spruce St KI

5-1205 \*Maguire Jam W0 6-3118 James A 116 N 7 St (Camden NJ)

WU 0-3118 Malta Co Victor S 1135 Slocum St WA 4-8688 Massey Assoc 529 Brookhurst Ave (Narberth Pa) M0 4-4200 \*Moyer Co H A P 0 Box 14 (Haddonfield NJ) HA 9-6347

\*Muckenfuss T E 8 Tannen St (Haddonfield NJ) HA 9-8533

Mustico John 312 Bewley Rd (Havertown Pa) HI 6-1961 \*Naudain L Parker 846 Suburban Sta Bldg RI 6-3185

lewson & Assoc C H 150 Terminal Ave CH 8-0282 \*Newson 8-0282 \*Nolan & Assoc J J 314 W Sparks St WA 4-1595 \*Paranon Sales 111 S 22 St RI 6-5699 Park & Goodman 401 W Mt Airy Ave CH 7-7116 \*Pearson Sales R T 1125 York Rd (Abington Pa) TU 7-0186 Penn-Del Instrument Sales Co P 0 Box 4361 CH 7-7389

7-7389
\*Perna & Assoc Frank J 1029 Drexel Ave (Drexel Hill Pa) SU 9-9045
Powell Co H H 2102 Market St L0 7-5285
\*Quinlan D G 4700 Frankford Ave JE 3-6767
\*Randall Co Kennetii W 121 N Broad St L0
4-2151

4-231 Robinson Co I E 7404 W Chester Pike (Upper Darby Pa) FL 2-7017 Satterthwaite W F P O Box 664 (Havertown Pa) SU 9-9600

Subject Sheliga & Co N A 4546 N Colo St GL 5-1409 Slubin & Co Lewis 2305 Fairmount Ave ST 7-2072 \*Stinson Co J T 219 Sayamore St (Havertown Pa) HI 7-0922

\*Stobbart A J 56-14 Revere Rd (Drexel Hill)

\*Stobbart A J 56-14 Revere Rd (Drexel Hill) CL 9-3881

\*Stratton Co C H 514 E Wadsworth St CH 7-7869

\*Technical Representation 25 S Easton Rd (Glenside Pa) TU 7-1325

\*Trinkle Sales P O Box 40A (Hatfield Pa) 3-9425

Wcher-Linz Assoc 238 Shelmire St CH 3161J

Whiddett Co John C 3850 Garrett Rd (Drexel Hill Pa) CL 9-3636

\*White & Co L G 134 N Narberth Ave (Narberth Pa) MO 4-6505

Williams Assoc V W 1100 White Horse Pike (Oaklyn NJ) CO 5-6332

TTTSBURGH
Clark & Note 2 Old Clairton Rd
Fuhrman Jr John T 6822 Thomas Blvd MO 1-3838
Levine Albert 11 Jonquil Pl LO 1-7027
Lowry-Dietrich Co 1404 Swantek St MA 1-2959
MacDonald Inc S K Hddrs Philadelphia
Mates Hy 5510 Hobart St HA 1-8998
Morrow Co Les A hddrs Cleveland
Odell Co M P Hddrs Cleveland
Odell Co M P Hddrs Cleveland
Odsen Co John O 3552 Wallace Dr TU 4-0472
\*Podolny Co J H 4716 Coleridge St HI 1-0800
Ransford Co H E 2601 Grant Bldg R 1-1880
Scott & Steffan Hddrs Cleveland
Stover & Co S H 5495 Penn Ave EM 1-7533
Tanner & Covert 300 Mt Lebanon Blvd LO 1-5067
Taylor Co Morris F Hddrs Silver String Md
Whitaker Co E E Box 8837 FR 1-6220 PITTSBURGH

READING Beil Thomas H 3623 Jacksonwald Ave 5-6 Loose Co Warren L 646 Gordon St 2-7094

#### Tennessee

CHATTANOOGA Johnson Jesse P 413 Dome Bldg AM 5-3463 MEMPHIS

MEMPHIS
Cartwright & Bean 1336 Madison Ave BR 5-1914
\*Engleman Co Al 3205 Crump Ave GL 8-6263
Winn Lyman 1677 E Beard Pl ME 36-2317
NASHYTLLE
Atcheson & Adams Hdgrs Greensboro NC
Collins T J 919 5 Ave S
Griffin J R 1989 Lavergne Ct
Wallace Assoc S K Hdgrs Lutz Fla

#### Texas

DALLAS
Allied Components Inc 3918 Henry Hines Blvd

Allied Components Inc 3918 Henry Hines Blvd LA 8-4943 Ammon & Woods Assoc 5604 E Mockingbird Lane TA 3-1191
Amos Bob P O Box 13505 WH 8-9848 \*Anderson Co Geo E 1901 Griffin St RI 1-5931 \*Antle-Smith Sales 9305 Addis St FL 7-7279 Aymond Co E F 4312 Maple Ave LO 5233 Barnes Co Arnold 5526 Dyer St EM 6716 \*Berthold Sales Co 4411 Maple Ave LA 6-8329 \*Branum Co P O Box 10204 RI 1-4995 \*Campion Sales Co 9002 Chancellor Row FL 7-4095 Communications Eng'g Co 900 Dragon St PR 7508 \*Corry Co Half 6315 Hillrest Ave LA 8-9172 \*Crockett-Lund & Co 2205 Griffin St RI 2-5777 Dansby Co Robt W 5526 Dyer St EM 1-4535 \*Delzell-Maynard Sales 2013 Cedar Springs RI 2-2027

2-2027 2-2027 General Power Equin Co 5623 Dyer St FO 8-4655 Green Co John A 6815 Oriole Dr FL 2-9918 Gross Co Fred P 8 Box 1926 CH 7-5424 \*\*Guenther John B 4533 N Central Expwy LA 8-

6286
Hamilton & Assoc R F 4515 Prentice St
Hays Jr W R P O Box 12204 EM 3-3991
\*Heidenreich Co Max N 6115 Denton Dr FL 2-3389
Kemp Charles 10582 Spangler Rd CH 7-5031
Klicrera Co M F Hddrs Houston
Lawrence Sales Co P O Box 13026 FL 2-7484
Lieberman Co Hark 534 Fidelity Union Life Bldg
RI 7-2255 RI 7-2225

RI 7-2225
Lipstomb & Assot Farl P 0 Box 7084
Lucas Sales Co Charles H 1247 Georgia Ave
Maas Jr Harry A 4219 Normandy LA 6-2209
\*McKinney J F 1330 N Industrial Blvd ST 1997
Nesbitt Robert E 1925 Cedar Springs RI 7-5824
Norvell Assoc 6522 Dver St EM 8-4180
Packard Assoc 6526 Dyer St EM 8-6461
Scanlon Co P J 3911 Oak Lawn Ave LA 6-8681
\*Schoonmaker Co J Y 5328 Redfield Ave LA 6-7238
Sinks Robt M Box 11726
\*Smith J Earl 6211 Denton Dr FL 7-1727

Southwest Electronic Industries 4515 Prentice St F0 8-8236 FO 8-8236
Tate & Scanlon 3911 Oak Lawn Ave LA 3793
\*Texport Co 2147 Farrington RI 7-6886
Thomson Eng'g Service 2712 W Rockingbird Lane
Ward Co L R 3009 Canton St RI 6279
Weinreich & Assoc George 1210 Old Gate Lane FA
2800
White Co R F 2519 Carlisle St RA 3603
\*Wilks Co Ernest L 1212 Camp St RI 7-2637
Willison-Hart & Co Hdgrs Houston
Wright Industrial Prods 5738 N Central Expwy TA
4-2571

4-2571

\*Yount Co Jack 1431 Pleasant Dr EX 1-0988 EL PASO Markowitz Co Herman 1132 Texas St 3-8231 FORT WORTH

UNI WORTH Engineering Associates 2912 Stanley WA 3-7386 Industrial Associated Electronics 5911 E Lancaster Ave JE 5-2056 Speairs Co Mitchell 3801 Westcliff Rd S WA 6-4444

GRAND PRAIRIE Tex-O-Koma Sales P O Box 747 AN 2-0866

Tex-O-Koma Sales P O Box 747 AN 2-0866
HOUSTON
Brice Co Wm E 303 Bastrop Ave CA 2-7321
Delzell-Maynard Sales Hdprs Dallas
Gay Sales Co 420 Sul Ross St JA 9-3479
Green Co John A Hdqrs Dallas
Klicpera Co M F P O Box 3113 JA 2-8459
Laco Co 2204 Clinton Dr (Galena Park) OR 29774

9774
Packard Assoc Hdgrs Dallas
Salter R E 208 Sidney St WA 3-8720
Schoonmaker Co J Y Hdgrs Dallas
Smith J Earl Hdgrs Dallas
Ward Co L R 1814 Texas Ave BL 0356
\*Willison-Hart & Co 1821 W Ala St JA 8-1634

#### Utoh

SALT LAKE CITY Bush Co Leon S 439 Redondo Ave IN 7-5359 \*Gates Co Franklin Y 200 S Main St EL 9-1101

#### Virginia

**ALEXANDRIA** -EAMBRIA Anderson Co J F 1023 10 St SO 8-7153 Brown & Assoc W A 3610 Mt Vernon Ave TE 6-

1800
FALLS CHURCH
Lee Assoc S S 1107 W Broad St JE 4-3500
HIGHLAND SPRINGS
Martin & Co Ed 102 E Beal St FA 2503
RICHMOND

Simpson & Son P M 717 Byrd Park Ct CT 4-0287

#### Washington

Washington

SEATTLE

ARVA 120 W Thomas MU 7337

Associated Industries 1752 Ranier Ave MI 4400
Avionics Liaison Box 15 Boeing Field LA 7602

\*Backer Co James J 221 W Galer St AL 6470
Carlson Co Fred W 1201 Dexter Ave EL 6630

\*Dooley Co J K 3215 Western Ave MU 8313
Drake Assoc Rush S 1806 Bush PI CA 8545

\*Haight Co F H 3212 Eastlake St EA 1818
Harris & Co G E 444 Dexter Horton Bidg SE 1673
Hawthorne Electronics Hddrs Portland Ore
Howell Sales 1206 19 Ave N EA 3209
Jensen Co Verner O 2616 2 Ave MU 2929
Johnston Co Ray 11009 Evanston Ave EM 0956

\*Langhear Co William R 2823 35th St W AL
5979

\*Lee Co Dave M 2517 2 Ave MA 5512 5979
\*Lee Co Dave M 2517 2 Ave MA 5512
Levinson Co Harry 1117 2 Ave MA 5317
\*Marsh Agencies 2601 1 Ave MA 8761
\*Merritt Ron 120 W Thomas MU 7337
Miller Co Gerald B Hddrs Hollywood Calif
Norwest Co 330 2 Ave W AL 8442
\*Northwestern Agencies 4130 1 Ave S EL 8882
Paramount Appencies Hdrys Sockano \*Northwestern Agencies 4130 1 Ave S EL 8882
Paramount Agencies Hdgrs Spokane
\*Parsons & Co C B 3028 1 Ave MU 3933
\*Porter Co Burt C 4310 Roosevelt Way ME 6828
Ryland Sales Co W R 5510 29 St N E PL 8147
Schultz Co N R 619 2 Ave SE 6396
Seatronics Inc 911 Western Ave MA 5046

Shaffer & Nelson 312 Occidental Ave Slater & Assoc AI C 9011 15 Ave N E MA 3860 Smith Sales Co Don 2204 N 45 St EV 3160 \*Stoum Co S N 2401 Smith Tower MU 7833 Testco Boeing Field Rm 105 MO 4895 \*Widdekind Co M K 222 1st Ave N EL 6981 Paramount Agencies 121 Monroe St TE 8-2287 \*Quinn James P O Box 7051 EM 6621

#### Wisconsin

MILWAUKEE Aaron & Asooc Irvin I 829 N Marshall St BR 6-8515 Dickinson & Assoc E A 744 N Fourth St BR 2-Dickinson & Assoc E A 744 N Fourth St BR 2-0517 Heimann Co Hdqrs Minneapolis Honkamp Sales Co 2223 N 70 St SP 4-6258 Laub Co Nick J Hdqrs Minneapolis Loeb Co Eugene R 5052 N Shoreland Ave WO 4-2155 Polacheck Assoc C S 1500 E Fairy Chasm FL 2-

Canada MONTREAL \*Pound H 5093 Randall Ave WA 3402 TORONTO \*Armstrong Allen Jr 700 Weston Rd R0 2-7535 \*Pointon C G 6 Alcina Ave OL 7984 PORT CREDIT Finkler Len 1505 Park Royale Blvd CR 8-7583 Finkler Len 1505 Park Royale Blvd CR 8-7583 VANCOUVER \*McLennen Ltd D Eldon 2191 W 1 Ave BA 2898

HONOLULU \*Brenna & Browne 211 Honolulu Mdse Mart 26-2575 Dougherty Enterprises 149 Kaimi St Piety Gene 2030 Home Rules ST 8-3105

#### **ENGINEERING SOCIETIES**

## Engineering Societies

Alphabetical listing of professional societies, industry associations and technical organizations serving the radio-TV-electronic and allied fields

Acoustical Society of America 57 E 55 St New York

22 N Y
Aircraft Industries Ass'n of America 610 Shoreham
Bldg Washington 5 D C
American Assoc of Engineers 8 S Michigan Ave Chicago 3 III
American Electroplaters Society 445 Broad St New-

American Electroplaters Society 445 Broad St Newark 2 N J
American Institute of Electrical Engineers 33 W 39
St New York 18 N Y
American Institute of Physics 57 E 55 St New York 22 N Y
American Institute of Physics 57 E 55 St New York 22 N Y
American Management Ass'n 1515 Broadway New York 36 N Y
American Physical Society Columbia Univ Broadway & 116 St New York N Y
American Radio Relay League 38 LaSalie Rd W
Hartford Conn
American Society for Mechanical Engrs 29 W 39 St New York 18 N Y
American Society for Quality Control 161 W Wisconsin Ave Milwaukee 3 Wisc

American Society for duality Control 161 W Wisconsin Ave Milwaukee 3 Wisc
American Society for Testing Materials 1916 Race St
Philadelphia 3 Pa
American Society of Tool Engineers 10700 Puritan
Ave Detroit 38 Mich
American Standards Ass'n 70 E 45 St New York 17

American Women in Radio & TV 501 Madison Ave New York 22 N Y Armed Forces Communications & Electronics Ass'n 1624 Eye St N W Washington 6 D C Armstrong Memorial Research Foundation Rm 209 Philosophy Hall 117 St & Amsterdam Ave New York 27 N Y

Associated Police Communication Officers 528 Tully Rd San Jose Calif

Ass'n for Computing Machinery 2 E 63 St New York 21 N Y

Ass'n for Applied Solar Energy 3424 N Central Ave Phoenix Ariz

Ass'n of Electronic Parts & Equip Mfrs 11 S LaSalle St Chicago 3 III Ass'n of Federal Communications Consulting Engrs c/o John Creutz Sec'y 710 14 St N W Washington 5 D C Audio Eng'g Society Box 12 Old Chelsea Sta New York 11 N Y

Electrochemical Society 216 W 102 St New York 25 N Y

Electronics Mfrs Ass'n 55 W 42 St New York 36 N Y Electronic Parts Mfrs Ass'n 430 Wyatt Bldg Washington 5 D C Engineers Joint Council 29 W 39 St New York 18

Federal Communications Bar Ass'n 514 Wyatt Bldg

Federal Communications Bar Ass'n 514 Wyatt Bldg
Washington 5 D C
FM Development Ass'n c/o Edwards Agency 915 N
LaCienega Blvd Los Angeles 46 Calif
Hi-Fidelity Institute Inc 1 N LaSalle St Chicago 2 III
Industrial Communications Ass'n c/o Bethlehem Steel
701 E 3 St Bethlehem Pa
Institute of Aeronautical Sciences 2 E 64 St New
York 21 N Y
Institute of High Fidelity Mfrs 25 Broad St New York
4 N Y
Institute of Radio Engineers 1 E 79 St New York

Institute of Radio Engineers 1 E 79 St New York 21 N Y Instrument Society of America 313 6 Ave Pittsburgh 22 Pa Int'l Municipal Signal Ass'n 130 W 42 St New York

Int'l Municipal Signal Ass'n 130 W 42 St New York 36 N Y Joint Electron Tube Eng'g Council of RETMA & NEMA 155 E 44 St New York 17 N Y Joint Technical Advisory Committee 1 E 79 St New York 21 N Y Magnetic Recording Industry Ass'n 274 Madison Ave New York 16 N Y Metal Powder Ass'n 130 W 42 St New York 36 N Y Mfrs Aircraft Ass'n 45 Rockefeller Plaza New York 20 N Y Nat'l Alliance of TV & Electronics Service Ass'ns 5908 S Troy Ave Chicago 29 III

5908 S Troy Ave Chicago 29 III

Nat'l Appliance & Radio-TV Dealers Ass'n 1141 Merchandise Mart Chicago 54 III
Nat'l Ass'n of Electrical Distrs 290 Madison Ave New York 17 N Y
Nat'l Ass'n of Music Merchants 25 E Jackson Blvd Chicago 4 III
Nat'l Ass'n of Radio & TV Broadcasters 1771 N St N W Washington 6 D C
Nat'l Audio-Visual Ass'n Fairfax Va
Nat'l Community TV Ass'n 710 14 St N W Washington 5 D C

ton 5 D C
Nat'l Conference on Aeronautical Electronics P O Box

Nat'l Conference on Aeronautical Electronics P U Box 621 Far Hills Br Dayton 9 Ohio Nat'l Electrical Mfrs Ass'n 155 E 44 St New York 17 N Y Nat'l Electronics Distrs Ass'n 343 S Dearborn St Chicago 4 III Nat'l Electronics Conference 84 E Randolph Chicago 1

Nat'l Society of Prof Engrs 2029 K St N W Washington 6 D C
Operational Fixed Microwave Council c/o Ass'n of
American Railroads 59 E Van Buren St Chicago 5

Phonograph Mfrs Ass'n 562 5 Ave New York 36 N Y Purchasing Agents of the Radio & TV Industry 282 22 St Brooklyn 15 N Y Radar-Radio Industries of Chicago 1 N LaSalle St Chicago 2 III

Chicago 2 III
Radio Club of America 11 W 42 St New York 36 N Y
Radio-Electronics-TV Mfrs Ass'n 1721 De Sales St
N W Washington 6 D C
Radio Pioneers 589 5 Ave New York 17 N Y
Radio Technical Commission for Aeronautics Rm 1072
Bldg T-5 Washington 25 D C
Radio & TV Executives Society The Biltmore New
York 17 N Y
Record Industry Ass'n of America 3 5 573 CM

Record Industry Ass'n of America 1 E 57 St New York 22 N Y Representatives of Electronic Products Mfrs 600 S

Michigan Ave Chicago 5 III Scientific Apparatus Makers Ass'n 20 N Wacker Dr

Scientific Apparatus makers Assail 20 in Chicago 6 III
Society of Motion Picture & TV Engrs 55 W 42 St
New York 36 N Y
Society of Plastic Engrs 34 E Putnam Ave Greenwich

Conn
Standards Engrs Society P 0 Box 281 Camden 1 N J
Ultra-High Frequency TV Ass'n 1012 14 St N W
Washington 5 D C
Ultrasonic Mfrs Ass'n P 0 Box 555 W Chester Pa
Veteran Wireless Operators Ass'n 149 President St
Lynbrook L I N Y
West Coast Electronic Mfrs Ass'n 342 N LaBrea Ave
Los Angeles 36 Calif

### 1957 ELECTRONIC INDUSTRIES DIRECTORY

## Brand & Trade Name Index

The brand names of the products, equipment, and instruments in the radio-TV-electronic and related industries are listed alphabetically, with the name of the manufacturer. The address of the manufacturer whose brand or trade name is listed may be obtained by referring to the Alphabetical Listing of Manufacturers, beginning on page 389.

Absorb-a-Shock-Federal Shock-

mount AccuRay—Industrial Nucleonics Accur-ohm—GC Electronics

Accuwire--Acurate Insulated Wire

Accumire—Acurate Insulated Wire A-Clip—Goldak Co Acepot—Ace Electronics Assoc Acetrim—Ace Electronics Assoc Acetrim—Wire ACO—General Control Co Acoustic Baton—University Loudspeakers
Acoustingate—Attec-Lansing Accessed

Acoustigate—Altec-Lansing
Acraspit—Entron Inc
Acrashit—Entron Inc
Acrawax C—Glyco Products
Acrobass—Acromark Co
Acroleaf—Acromark Co
Acroplac—Acromark Co
Acroprinter—Acromark Co
Acrosund—Acro Products
Acrostam—Acromark Co
Adashaft—Centralab
Ad-A-Switch—Clarostat Mfg
Addaplug—Assoc Eng'g Corp
Add-A-Tier—Bernard Franklin
Addaverter—Epsco Inc
Add-iractor—Victor Adding Mch
Addelco—Advance Electronics

Addaverter—Lasco Inc
Add-tractor—Victor Adding Mch
Add-tractor—Victor Adding Mch
Add-tractor—Victor Adding Mch
Addist-A-Cont—Quam-Nichols
Adjust-A-Cont—Std Electr Prods
Adjusta-Vue—Advance Electronics
Adjustoriod—Burnell & Co
Adlake—Adams & Westlake
ADT—Amer Dist Telegraph
Adrad—Macleod & Hanopol
Advacc—Gen'I Ceramics Corp
Advance—Acme Battery
Advance—Elgin Nat'! Watch
Adventurer—Johnson Co E F
AE16—Bow Solder Prods
Aeco—Amer Elec Cable
Aerocom—Aerovox Corp
Aerofilm—Aerovox Corp
Aerofilm—Aerovox Corp
Aerofilm—Aerovox Corp
Aerofilm—Aerovox Corp
Aerofilm—Aerovox Corp
Aerofilm—Merovox Corp Aerohead—Giannini Co
Aeroham—Waters Mfg
Aerolene—Aerovox Corp
Aerolite—Aerovox Corp
Aerolite—Aerovox Corp
Aerolite—Aerovox Corp
Aerolog—Link Aviation
Aeromac—Seely Instr
Aero-Magnette—Heinemann Elec
Aeronautical—Cox & Co
Aerotemp—Aerovox Corp
Aerotron—Aeronautical Electr
Aerotweed—Apex Coated Fab
AG—Bic-Rad-Labs
Agualux—Luxor Lt'g Prod
Airacoustic—Johns-Manville
Airboy—Mitchell Industries
Air Dux—Illumitronic Eng'g
Airdex—Lemert Eng'g
Airoymetric—Milton Roy Co
Airpure—Flanders Mill
Airtemp—Aires Lab
Airvane—Joy Mfg Co
Akra-Ohm—Shallcross Mfg
Akroline—Electronic Eng'g
Alathon—DuPont de Nemours
Alcermet—Solar Aircraft
Alchrome—Driver Co W B
Alcoiet—Alconox In
Alectral—Gen'l Cable
Algoo—Auburn Mfg
Alite—U S Stoneware
Alka-Deox—Enthone Inc
Alekarwar—Acme Wire
Alkor—Atlas Mineral Prods
All Angl—Barry Controls
Allen Head—Allen Mfg

Alkamwar—Ache Wire
Alkor—Atlas Mineral Prods
All Anni—Barry Controls
Allen Head—Allen Mfg
All-Metl—Barry Controls
Almany—Frenchtown Porcelain
Almanox—Frenchtown Porcelain
Almanox—Gen'l Mannetic
Alphatron—Can Radium
Alphatron—Can Radium
Alphatron—NRC Equip
Alphatron—NRC Equip
Alphatron—NRC Equip
Alphatron—Alpha Wire Corp
Altemp—Alpha Wire Corp
Altemp—Alpha Wire Corp
Altimor—Mast—Mech Steel Tubing
Alumaweld—Johnson Mfg Co
Alumaweld—Johnson Mfg Co
Alumom—Enthone Inc
Alumom—Enthone Inc
Alumom—Stron Co
Aluzoom—JFD Mfg

Alvo Pak---Alvo Nut & Bolt Alvo Pak—Alvo Nut & Bolt Alyonomike—Poole Instrument Amco—American Solder & Flux Amcon—American Electronics Amerode—Amer Communications Amer-Dial—Amerac Inc Amerglas—American AirFilter American—Elgin Nat'l Watch American—Manning Maxwell & Moore

Beauty—Amer Heater Amerite—American Tower Amerplastic—American Elec Ca-

Aminco—American Instrument

Aminco-Aire—American ment ment
Ampec—Centralab
Amplos—American Metal
Amplet—Devol Research
Amplicall—Rauland-Borg Corp
Amplifilm—AMP Inc
Ampli-Speed—Electric Mchy Mfg
Ampli-Vision—Int'l Telemeter
Amprobe—Pyramid Instrument
Amp-trap—Chase-Shawmut
Amrac—American Mica Radio
Amrecon—Ohmite Mfg Co
Analac—Anaconda Wire & Cable
Anaylst—Eastman Kodak Co
Anaylzer—Waters Mfg
Anastar—Eastman Kodak Co
Anderometer—Micrometrical Mfg
Anets—Anetsberger Bros
Ankoseal—Ansonia Wire & Cable
Antosch—Ansonia Wire & Cable
Antoch—Beam & Co Morris
APCO—Aurora Pump
Accor—Geartronics Corp
Apeco—Auto-Stat—Amer
Legy
Arelso—Annied Flectronics Ampec—Centralab

copy
Agelco—Applied Electronics
APW—Amer Platinum Works
Aquadag—Acheson Colloids
Aquaseal—Gen'l Cable
Aquatel—Isotope Products
Aquathene—Gen'l Cable
Araldite—Ciba Co
Arcco—Borden Co
Arcco—Borden Co Arco-Borden Co
Arco-Borden Co
Arco-Scent—Luxor Lt'g Prods
Arkay—Radio Kits Inc
Armaturo—Johns-Manville
Ar-Mets—Brooks Rotameter
Armite—Spaulding Fibre
Arrestone—Armstrong Cork
Artisan—Electronic Organ
Asbestos Ebony—Johns - Manville
Asco—Automatic Switch
Ascor—American Speedlight
Ashcroft—Manning Maxwell & Ashcroft-Manning Maxwell

Moore Astomix—Oberline Inc Astramatic-Electronic Control Sys Atbee-Radiation Research Atlas—SKF Industries
Atlee—Atlas E-E
Atom-At—Central Electronic Mfrs
Atomic Jewel—Robbins Indus-

tries Atomotron—Atomic Labs ATR—American TV & Radio Atten-U-Card—Elektro-Serv Aubeston—Auburn Mfg Audet—Centralab Audet—Centralab
Audigage—Branson Instrument
Audikon—James Inst Lab
Audio-Aid—Ansley Mfg Arthur
Audio Aid—Greene Chartton L
Audio Chief—Audio Equip Co
Audio Director—Audio Equip Co
Audiodiscs—Audio Devices Co
Audiofim—Audio Devices Co
Audio Guider—Audio Equip Co
Audio Harler—Audio Equip Co
Audio Harler—Audio Equip Co
Audiom—Rockbar Corp Audio Hailer—Audio Equip Audiom—Rockbar Corp Audiopoints—Audio Devices Audioscope—Audio Master Audiotape—Audio Devices Audiotarium—Jensen Mfg Cd Audioplex—Electronics Devel Auricon—Berndt-Bach Inc Auricon—Berndt-Bach Inc Autex—Flight Research Auto-Dine—Simplex Equip

Autograf—Moseley Co F L
Autopeal—Deagan Inc J C
Autopositioner—Collins Radio
Autopower—Safe Flight Inst Corp
AutoRef—Thermo Electric
Autosweer—Audio Instrument
Autowers—Eliers Pinisery Autosweep—Audio Instrument
Autosyn—Eclipse-Pioneer
Auto-Tap—Automatic Methods
Autotune—Collins Radio
Autovac—Cons Electrodynamics
Auto-Zoom—Perkin-Elmer Corp
Avcom—Avco Mfg Corp
Avigator—Mitchell Industries
Axiom—Rockhar Corp
Axivane—Joy Mfg Co

Bac—Brunner Mfg Co
Eadger—Reliance Automatic Lt'g
Balanced TV—Camera Equip
Balco—Driver Co Wilbur B
Balline—JFD Mfg Co
Ballast—Driver Co Wilbur B
BallyHoo—Simpson Mfg Co Mark
BaltoyHoo—Simpson Mfg Co F C
Banjo-O-Seal—Wolfe Co F C
Banjo-O-Seal—Wolfe Co F C
Banshee—JFD Mfg Co
Banshee
Ba

BD Meters—Beede Electrical Inst Beam Power Rotaries—Telrex BD Meters—Reede Electrical Inst
Beam Power Rotaries—Telrex
Lahs
Bechro—Beck Bros
Bechler—Cosa Corp
Behr Cat—Behr-Manning
Bel-Cleer—St Cecilia Co
Belcon—Bogue Electric Mfg
Ben Harr—Bentley Harris Mfg
Berg-Erikson Specialized Tool
Beraloy—Driver Co Wilbur B
Berylco—Beryllium Corp
BH—Bently Harris Mfg
Bib—Multicore Solders Ltd
Biflex—Altec Lansing
Big Jack—Kay-Townes Antenna
Bimet—Moeller Instrument
Bi-Net—Johnson Co E
Bin-Eye—Jeffrey Mfg
Biraco—Birnbach Radio Co
Birflen—Birnbach Radio Co
Birflen—Birnbach Radio Co
Birflen—Birnbach Radio Co
Bisnic—Dynamu Magnetronics Birthon—Birthach Hadio Co Bisonic—Dynamu Magnetronics Bitugloss—Koppers Co Bitumastic—Koppers Co BIW—Boston Insulated Wire Blak.Ray—Black Light Corp of

Blak-Hay—Black Light Corp of Amer
Blind Rivet—Huck Mfg Co
Blue Diamond—Pioneer Gen-EMotor Corp
Blue Point—Astron Corp
Blue Shaft—Centralab
Blu-Mol—Millers Falls Co
Blu-Red—Assoc Amer Trading

Div
Blutex—Paul F H & Stein Bros
Boardmaster—Graphic Systems
Boffle—Hartley Products Co
Bolab—Bolton Labs
Bold Daylight—Lawter Chemicals
Bolta-Grav—Bolta Prod Div
Boltaron—Bolta Prod Div
Bondeze—Phelps Dodge Copper
Prod
Rondmaster—Rubber & Ashestos

Prod
Bond master—Rubber & Asbestos
Boost-A-Volt—Workman TV Inc
Borolilm—Aerovox Corp
Boronol—Allied Resinous Prod
Boscar—Benson-Lehner
Bosit-Workman TV Inc
Bostomatic—Magnetic Devices
Bow-Flector—JFD Mfg
BPW—Bradford Components
Boy-Mar—Electrical Service

Braloy-Brainin Co C S Bramtex-Bram Chemical Brandes-Cannon C O F Brasslyte-Logo Inc Brazaloy-All-State Welding Al-

Breeze Mark—Breeze Corp BRC—Budelman Radio Corp Brick-Phoenix—Phoenix Precision Brick-Phoenix—Phoenix Precision Inst Constitute Constit

C

C
Cab-L-Tite—Dakota Eng'g
CAE—Controlled Atmosphere Enclosures
Cailloux—Stoelting Co C H
Cal-Conn—Cal-Connector Co
Califilm—Shamban Eng'g Co
Calivolter—Calidyne Co
Calmag—Calif Magnetic
Caltrol—Caltron Prods
Camtran—Campbell X-Ray
Canade—Lenz Elec Mfg
Candoc—Cudner & O'Connor Co
Candohm—Muter Co
Candon—Muter Co
Cannon-Ball—Cannon Co C F
Cannon Plugs—Cannon Electric Cannon Plugs—Cannon Electric
Canseal—Cannon Electric
Canto-Chime—Deagon Co J C
Caracitester—Telecast Inst
Capadyne—Mullenbach Div
Cacaswitch—Mullenbach Electri-

Capaswitch—Mullenbach Electrical
Capillary—Air & Refrigeration
Corp
Capitron—AMP Inc
Captain—Medal Mfg Co
Carbamp—Bendix Red
Carbofilm—Aerovox Corp
Carb-Ohm—Phoostron Instrument
Carbo-Korez—Atlas Mineral Prod
Carbomastic—Carboline Co
Carbomite—Continental Carbon
Car Call—Hy-Gain Antenna Prods
Car Call—Seeley Electronics
Cardatron—Electrodata/Burroughs Corp
Carfone—Radio Corp of Amer
Carillonic Bells—Schulmerich
Electronics
Cartri-J—Pyramid Elec
Cartwheel—Aerovox Corp
Carrythone—Union Switch & Signal

nal
Cary—Applied Physics
Casco—Borden Co
Cascode—JFD Mfg Co
Cash-Acme—Cash Valve Mfg
Castiplast—Nat'l Eng'g Prods
Castonday—Acheson Colloids
Cathaloy—Superior Tube Co
Cathode Nickel—Driver Co Wilbur B
Cathoden Pve Telecommunica

Cathodeon-Pye Telecommunications Cathovisor—Cinema-Television Cavitometer—Poole Instrument Ceco—Community Eng'g Corp Ceco - Sweep—Community Eng'g Corp eco—Communication Equip

Ceeco—Communication Equip & Eng'g Celab—Clark Electronic Labs Celesta-Chime—Deagan J C Celoron—Continental-Diamond Fibre Cenco—Central Scientific Co Center-Line—Topatron Inc Centi-Lo—Chicago Industrial Inst Centrathene—Centralab Centralab Centralab Metals

Centraid—Tensor Elec Development Cerafil—Di-Q Div Aerovox CerAlloy—New Process Metals Ceramag—Stackpole Carbon Ceramagnet—Stackpole Carbon Ceramic Flamespray—Monta

Ceramic Flamespray—Montaine Corp
Ceramicon—Erie Resistor
Ceramo—Thermo Elec Co
Cer-Ohm—Bradford Components
Cerrobase—Cerro De Pasco Sales
Cerrobend—Cerro De Pasco Sales
Cerrodow—Cerro De Pasco Sales
Cerromatrix—Cerro De Pasco Sales
Cerromatrix—Cerro De Pasco Sales
Cerrosafe—Cerro De Pasco Sales
Cerrosafe—Cerro De Pasco Sales

Cerrosafe—Cerro De Pasco Sales
Cerrotru—Cerro De Pasco Sales
Cetron—Continental Elec Co
Challenger—Bogen David
Challenger—Da-Lite Screen
Challeger—Da-Lite Screen
Challeger—Rek-O-Kut Co
Change-A-Cycle—Carter Motor
Change-A-Volt—Carter Motor
Channel-Duct—Glastic Corp
Charactron—Stromberg - Carlson-SanDiego
Check Master—Standard Gage Co
Chekset—Rolton Labs

Chekset—Bolton Labs Chemalloy - Kahl—Chemalloy-

Elect
Chemelec—U S Gasket
Chemiflex—Technicraft Co
Ehemiglas—Technicraft Co
Chemion—Crane Packing Co
Chemo-Sol—Chemical Products
Chemo-Tage—Chemo-Textiles
Chemo-Tace—Chemo-Textiles
Chemo-Tec—Polymer Industries
Chemo-Chicago Miniature Lamp
Chorolux—Luxor Lighting Prod
Chromalox—Wiegand Co Edwin L
Chromatap—Spencer - Kennedy
Labs Elect

Chromatox—Wiegand Co Edwin L
Chromatap—Spencer - Kennedy
Labs
Chromatron—Chromatic TV Labs
Chromatron—Litton Industries
Chromel—Hoskins Mfg Co
Chronohm—Bendix Red Bank
Chronotron—Bendix Red Bank
Cineglo—Tarc Electronics
Cintel—Cinema-Television Ltd
Circle Ess—Stewart Corp F W
Circle Seal—James Pond & Clark
Circle Seal—James Pond & Clark
Circon—Univ Circuit Control
CK—Farmer Electric
C-L Board—Century Lighting
Clamcipe—Mueller Electric
Clarkstan—Pacific Tranducer
Claro—Clarostat Mfg Co
Clear-Print—Phillips Process Co
Cleartone—Amer Sound Products
C-Lector—Century Lighting
Clevelite—Cleveland Container
Climaster—Cleyg Labs
C Line—Clarostat Mfg Co
Clipper—Johns-Manville
Clipper—Sterling Transformer
Clock-Timer—Int'! Register Co
Coaxitube—Precision Tube Co
Cobanic—Driver Co Wilbur B
Cobreflex - 2—University Loudspeakers
C O C—Hammarlund Mfg Co

Cobreflex - 2—university Lou speakers C O C—Hammarlund Mfq Co Cobrlastic—Conn Hard Rubber Coiltenna—Electrend Products Colac—Lenz Elec Mfg Collaro—Rockbar Corp Collaro—Rockbar Corp
Colorbeam—Tennalab
Colorbot—Musicolor Inc
Color Cord—Pacific Electricord
Color-Seye—Instrument Devel Labs
Colorscope—Tarc Electronics
Color View—Welco Mfg Co
Comet—Astron Corp
Comet—Da-Lite Screen
Comco—Communications Co Commando—Shure Bros Commack—General Cable Compentrol—Centralab Comp-U-Trim—Eastern Precision

Resistor Corp Comtel—Radio Frequency Labs Comvor—Radio Frequency La Conalert—Kaar Eng'g Corp

Concentrikit—Int'l Resistance
Concert—Jansen Mfg Co
Concertcaster—Audiomation Labs
Concerto—Jensen Mfg Co
Condor—Raybestos-Manhattan
Co-Netic—Perfection Mica
Con-Fer-Phone—Simpson Mfg Co
Mark

Mark
Confessionaire—Audio Equip Co
Confidencer—Roanwell Corp
Conical-V-Bean—Telrex Labs
Connecticut—Stueck Inc W Whit-

Control-A-Matic-Rockwell Eng'g

Control-A-Matic—Rockwell Eng'g
Div
Control Guards—D & M Products
Convectron—Bendix Red Bank
Copperoid Process—Bigelow Metallizing Chem
Coprox—Bradley Labs
Corner-Helix—JFD Mfg Co
Corona—Peschel Electronics
Corrih—Ohmite Mfg Co
Corrih—Ohmite Mfg Co
Corrih—Hudson American Corp
Corvek—JAMac Prod Co
Corvette—JFD Mfg Co
Corv-Vox—Stanley Webster Labs
Co-Therm—Hopkins Eng'g Co
Cottonite—Acme Wire
Counterpoise—Cook Electric Co
Couplate—Centralab Couplate—Centralab
C Q T—Chase-Shawmut
Craftsmen—Precision
Instruments Radiation

Craig—Carbide & Carbon Chemicals Cramolin—Caig Labs
Crestbrite—Crest Transformer
Crestone—Armstrong Cork
CRL—Centralab

Crestorite—Crest Transformer
Crestone—Armstrong Cork
CRL—Centralab
Crodon—Chromium Corp of Amer
Croflex—Waldom Electronics
Croloy—Aerovox Corp
Croloy—Babcock & Wilcox Co
Cromag—Aerovox Corp
Cromax—Crowley Div Aerovox
Cro-Mesh—Croname Inc
Cromin D—Driver Co Wilbur B
CroRoto—Waldom Electronics
Cro-Roto—Waldom Electronics
Cro-Weave—Croname Inc
Cro-Wave—Croname Inc
Cro-Wave—Croname Inc
Cro-Wave—Croname Inc
Cro-Wave—Hudson American Corp
CTS—Chicago Telephone S
Crystolon—Norton Co
Crusader—Transitron Inc
Crescent—Warwick Mfg
Crown—Trimount Inst Co
Crus Croname Inc Crown—Trimount Inst Co
Cro-Art—Croname Inc
Croloy—Crowley Div Aerovox
Cuprochrome—Driver Co W

B
Cupron—Driver Co Wilbur B
CSF—Chicago Steel Furnace
CTS—Chicago Telephone of Calific Cyraline—Cascade Research Corp
Cyclo-X—Balteau Elect Corp
Cycrom-X—Balteau Elect Corp
Cushiontone—Armstrong Cork
Cycloptic—Amer Optical Co
Custom Ten—Simpson Mfg Co
Mark
Cupro—Riverside - Alloy Matal

Wilhur

Cupro—Riverside - Alloy Metal H K Porter Co Cryotainer—Ronan & Kunzl Current Governor—North Hills Elec Co Cycolac—Marbon Warner Chem / Barg-

Customode—Jensen Mfg Co Cy-an-in—Indium Corp of Amer

#### D

Dag—Acheson Colloids Daglas—Acme Wire Daglas—Phelps Dodge Copper Prod Daisy Rivet—Huck Mfg Co Daka-Ware—Davies Molding Co Dalohm-Dale Products Dalohm—Dale Products
Dandee—Aerovox Corp
Darb—Ryan Co S C
Dare—Dayton Aviation
Darex—Dewey & Almy
Data Gage—Texas Instrument
Datafile—Electrodata / Burroughs Corp Datagrach—Consolidated Electrodynamics Data Logger—Kybernetes Corp Datamaster—Cons Electrodyna

Data-Master-Hanson-Gorrill-Brian
DATAmatic 1000—DATAmatic Corp —Consolidated Electro-Datatane-Datatape—Consolidated Electrodynamics
Datatron—ElectroData Corp
Datrac—Epsco Inc
Dauntless—Defiance Eng'g & Mi-

Datrac—Epsco Inc
Dauntless—Defiance Eng'y & Microwave
Davoim—Daven Co
Dazic—Winterburn Mfg
DC—Dinion Coil Co
DeArmond—Rowe Inc
Decasol—Decimeter Products
Deckel—Cosa Corp
Deceçtograph—Stoelting Co C H
Defiancc—All Star Prods
Dehydra—Wappler Inc
Dekaboxes—Electro-Measurements
Dekapots—Electro-Measurements
Dekastats—Electro-Measurements
Detaswitch—Detroit Controls
Delta Unit—Decker Aviation
Den-El—Electric Cord
Densite—W Va Pulp & Paper
Densitimer—Lectra Labs
Densitrol—Precision Thermometer

Densitron-Instruments Inc Densitron—Instruments Inc
Densonnike—Poole Instrument
Depolaray—Saine Equip Lab
Depolatron—Saine Equip Lab
Derbylite—Luminous Resins
Desco—Dietz Design
Detect-A-Fire—Fenwal Inc
Determohm—Ohmite Mfg Co
Detectolab—B J Electronics
Develco—Developmental Electr
Di-Acro—O'Neil-Irwin
Diagnyzer—Apparatus Devel
Dial-A-Matic—Amer Photocopy
Equip

Dial-A-Matic—Amer Photocopy
Equip
Dialgo—Dialight Corp
Dialgo—Ackerman Engravers
Diall—Mesa Plastics
Dialmatic—JFD Mfg Co
"Diamond H"—Hart Mfg
Diamond Vulcanized Fibre—Continental-Diamond Fibre
Diamond Weave—Gen'l Instru-

ment DIC—Cannon Electric Co Di-Caps—Dilectron Div/Gude-

man man
Dico—Diamond Micowave Corp
Dictabelt—Dictaphone Corp
Dienex—Insulation Mfrs
Diegraf—Grafo Colloids
Diffaxial—University Loudspe

ers Diffusicone—University Loud -Diffusione—University Loud-speakers
Digi-Coder—Fischer & Porter
Digicon—Endevco Corp
Digimatic—Electronic Control
Systems
Digipot—Endevco Corp
Digistepper—Endevco Corp
Digistape—Benson-Lehner Corp
Digistape—Coleman Fund

Digitape—Denson-Lenner Corp Digitizers—Coleman Eng'g Co Digitometer—Electro-Mec Lab Digit-matics—Victor Adding Ma-

Digit-matics—tribution chine Co
Di-Jell 171—Sonneborn Sons L
Diletco—Centinental Diamond Fibre Co
Dimco—Dimco-Gray
Simptode—Amercoat Corp bre Co
Dimco-Dimco-Gray
Dimetcote—Amercoat Corp
Dion—Chemical Process
Dipot—Servonics Inc
Dip-Pak—Fidelity Chemical
Direct-A-Call—Conn Telephone
Directoro—Infra Electronic
Directron—Miller Co Sanford
Directronic—Snyder Mfg Co
Dispatcher—Shure Bros
Divasil—Merck & Co Inc
Divatel—Westrex Corp
Dividohm—Ohmite Mfg Co
Dixonac—Dixon Crucible Co Jos
Doc Alloys Kit—All-State Welding Alloys
Do-Do—JFD Mfg Co
DO-T—United Transformer
Double-Duty—Sel-Rex Corp
Drake—Nat'l Screw & Mfg Co
Dri-Ink—Floquil Products
Dri Stat—Peerless Photo Prod
Driwynd—Republic Foil & Metal
Dual—Hartley Products Co
D u a | Chronotrol—Audiomation
Labs
Dualex—Bell & Gossett

Dual—Hartley Products Co
Dual—Hartley Products Co
Dual—Corbonotrol—Audiomation
Labs
Dual—Lock—Simmons Fastener
Duax—Jensen Mfg Co
Duco—Du Pont de Nemours
Duette—Densen Mfg Cn
Du-Lite—Du Pont de Nemours
Dulux—Du Pont de Nemours
Ducarb—Driver Co Wilbur B
Duodial—Helipot Corp
Dudoisc—Duodone Co
Duodone—Paraplegics Mfg Co
Duo-Kap—Centralab

Duo Mount—South River Metal Prods
Duop—General Control Co
Duo Seal—Welch Mfg Co W M
Duo-tronic—Wappler Inc
DuoVolt—Carter Motor Co
Duplex—Altex Lansing Corp
Duplican—Can Radium & Uranium
Durable—Seager Standard Carbon
Duracon—Co-operative Industries

Durable—Seager Standard Carbon
Duracon—Co-operative Industries
Duraflex—Co-operative Ind
Duraleter-Duralith Corp
Duranickel—Int'l Nickel Co
Duranyl—Duralith Corp
Duramite—Aerovox Corp
Duramite—Aerovox Corp
Duron—Electro-Chemical Eng'g
Durogrene—Electro-Chemical
Eng'g

Eng'g Duro XXX—Electro-Chemical Duro XXX—Electro-Chemical Eng's Durpoint—Duotone Co Dustronic—Radex Corp Dutch Brand—John-Manville Duxeal—John-Manville Duz-All—CBC Electronics D & W—Dolinko & Wilkens Dylan Polyethylene—Koppers Co Dynite—Koppers Co Dymograth—Annis Co R B Dynaco—Dyna Co Dynaco—Dyna Co Dynagage—Plotocon Research Prod

Prod Dynakit—Dyna Co
Dynamag—Dynamics Research
Dynamaster—Bristol Co
DynaMatic—TeleTest Inst Corp
DynaMatic—Jackson Elect Inst
Dyna-Pak—Bendix Red Bank
Dyna-Pak—Bendix Red Bank
Dyna-Q—K-W Eng'g Works
Dyna-Quik—B & K Mfg Co
Dyna-Scan—B & K Mfg Co
Dyna-Scan—B & K Mfg Co
Dyna-Seat—Telex
Dynateq—Dynamics Research
Dyna-Therm—Guild Electronics
Dyn-Aut-Ronic—Gisholt Machine
Co
Dynaval—Scott Inc H H Dynakit-Dyna Co

Dynauval—Scott Inc H H
Dynograph—Offner Electronics
Dyno-Mite—Millers Falls Co

E

-Modern Adhesives & Electronics Eagle—Felters Co Ease—Berkeley Div Beckman

Ease—Berkere, Inst Easy—Waldom Electronics -Handy & Harma Easy—Waldom Electronics Easy-Flo—Handy & Harman Easy-Vision—Hoffman Elec-

tronics

Eearset—Telex
Ebonol—Enthone Inc
EC—Electric Coil Co
Eccofoam—Emerson & Cuming
Eccorsorb—Emerson & Cuming
Eccorsorb—Emerson & Cuming
ECI—Electronic Contractors
Echo—Erott Wayne Metals
Ecko—Eckstein Radio & TV
Econicom—Simpson Mfg Co
Mark
Econofone—Simpson Mfg Co
Mark

Mark
Econohm—Tru-Ohm Div
Econo-Switch—Centralah
Econo-Watt—Redmond Co
Edicam—Buss-Clement-Doughten
Edscorp—Edmund Scientific Corp
Eeco—Electronic Eng'g Co of
Calif
ET—Electric Furnace Co
Efcon—Electronic Fabricators
Enem—British Radio Electronics
EIC—Gary Wells Co

EIC—Gary Wells Co Eico—Electronic Instrument Eimac—Eitel-McCullough Elmac—Elter-mcCullough
Edotape—Webster Electric
Ektar—Eastman Kodak Co
Flar—Audiogersh Corp
Elasticable—Sightmaster Corp
Elecom—Underwood Corp
Elecord—Pacific Electricord Electricord

Flectenna—Electron Products

Flectenna—Electron Enterprises

Electrite—W Va Pulp & Paper

Electro Acto Glass—Electro
Technical Prods

Electro Bi-Glas—Electro-Technical Prod/Sun Chemical

Flectro-Cell—Amer Air Filter

Electrocraft-Richards Electro-

craft
Electrocut—Black & Webster
Electro Eltex—Electro-Technical
Prods
Electro Glas-Var—Electro-

Technical Prods
Electro-Glow—Industrial Devices
Electroflo—Hays Mfg
Electrol—Da-Lite Screen

Electromanganese—Foote Mineral Electro-Matic—Amer Air Filter Electromax—Leeds & Northrup Electromaze—Air-Maze Corp Electro-measurfo—Hays Mfg Electromet—Electro Metallurgical Electronamic—Precision Apparatus Co

tus Co Electronheat-Resdel Engin Electronieat—Nesder Eligy Electropath—Century Engrs Electro-Plate—Pyramid Scheen

Corp Electropoint—Century Engr Electropont—Lentury Engrs
Electro-Probe—Instruments Inc
Electropunch—Black & Webster
Electro Sil-Thin-Glas—ElectroTechnical Prods
Electrostake—Black & Webster

Electro-Stick-Glass-Electro-

Electro-Stick-Glass—Electro-Technical Prods
Electro Stick-Var—Electro-Technical Prods
Electrorsym-Detroit Controls
Electrotable—Black & Webster
Electrovac Atlas—Atlas Elec
Prods
Electro-Wipe—Duot Mer
Electro-Wipe—Duot Mer
Electro-Schauer Mer

Electro-Wipe—Duotone Co
Electrox—Schauer Mfg
Electrumatic—Brooks Rotameter
Electrunite—Regublic Steel
Elephant—Seymour Mfg Co
Elinco—Electric Indicator
E-Lite—Eldema Corp
Elix—El Products
Ellisco—Ellis & Sons George D
Elmer's—Bordens Co
Elmet—North American Philips
Elphco—Electro-Physics Co
Embassy—All Channel Prods

Elmet—North American Philips
Elphco—Electro-Physics Co
Embassy—All Channel Prods
Em-Bed-It—Electronic Plastic
EMC—Electronic Measurements
Emico—Electro-Mechanical Inst
EMP—Electronic Machine Parts
Empire—Tri-Ex Tower
Enamel G—General Cable
Enamelite—Acme Wire
Enbond—Enthone Inc
Erduro—Republic Steel
Enflon—Enflo Corp
Engraving
Enns—Cregon Electronic Mfg
Enpo—Piqua Machine & Mfg Co
Enstrip—Enthone Inc
Enterite—General Cable
Enthol—Enthone Inc
Enthore—Enthone Inc
Enthor—Fundachine & Mfg Co
Enstrip—Enthone Inc
Enthor—Enthone Inc
Enthor—Fundachine Inc
Enthor—Enthone Inc
Enthor—Enthone Inc
Enthor—Enthone Inc
Enthor—Enthone Inc
Enthor—Enthone Inc
Enthor—Enthone Inc
Enthor—Fundachine & Physical Instr
Epicom—Electron Products
Epimate—Amer Printed Circuits
Epimax—Electron Products
Epimax—Electron Products
Epimax—Electron Products
Epimate—Enurane Plastics Inc

Eticon—Electron Products
Epinate—Amer Printed Circuits
Epiwax—Electron Products
Epocast—Furane Plastics Inc
Epoglas—New England Laminates
Eposeal—Hardman Co H V
Eput—Berkeley Div Beckman
Instr
Equaline—Entron Inc
Equatrol—Entron Inc
Erectohm—Workman TV Inc
Ersin—Multicore Sales
Esco—Cosa Corp
Esco—Electric Specialty
Esco—Electric Specialty
Esco—Electric Soldering Co
Esico—Electric Soldering Co
Esico—Electric Soldering Co
Esico—Electric Soldering
ESL—Electro-Sonic Labs
ETC—Electric Terminals
EthoLoc—Weckesser Co
Eureka—Bache & Co Semon
Eureka—Du Pont de Nemours
Evabrite—Bache & Co Semon
Evanohm—Driver Co Wilbur B
Evapo-Ion—Cons Electrodynamics
Evapograph—Baird—Atomic Inc
Evereadw—Mat'l Carbon Co Evapograph—Baird-Atomic Inc Eveready—Nat'l Carbon Co Everlock—Thompson-Bremer & Co Everlock—Thompson-Bremer & Co Exact-Fax—General Photo Prods Exactohm—Workman TV Inc Exide—Elec Storage Battery Exploro-Former—Geotronic Labs E-Z Code—Westline Products Ez Lifts—Crown Controls Co E-Z Talk—Simpson Mfg Co Mark

Fabrikoid-Du Pont de Nemours & Co Fabrilite—Du Pont de Nemours Fabritte—Du Pont de Nemour Fairprene—Du Pont de Nemour Famco Fibers—Amer Air Filter Faratron—Luhrs & Co C H Farlite—Farley & Loetscher Fastatch—Centralab Fastee—Entron Inc Fault-Finder—Radar Engineers Faximile—Hogan Labs Faxkote—Hogan Labs

Faxpaper—Hogan Labs
F & B—Florman & Babb
FC—General Riveters
Featherweight Miniature—Chicago
Ind Instrument
Fel-Pro—Felt Mfg Co
Fenswire—Saxton Products
Fernetic—Perfection Mica
Ferrac—Airpax Products
Ferramic—General Ceramics
Ferramite—National Moldite
Ferri-Chokes—Superex Electronics
Corp Corp

Ferri-Chokes—Superex Electronics
Corp
Ferricore—Nat'l Moldite Co
Ferristor—Berkeley Div Beckman
Instrument
Ferro-Cell—Topatron Inc
Fibertuff Polystyrene—Koppers Co
Fibroid—Johns-Manville
Fidelitone—Permo Inc
Fidelitone—Permo Inc
Fidelivox—Audiomation Labs
Filed-Fone—Industrial Radio
Fil-Car—Filtron-Co
Filmagnetic—Berndt-Bach Inc
Filmosound—Bell & Howell
Film Pot—Fairchild Controls
Film-X—Goodall Electric
Filge-—Centralab Div
Filplate—Centralab Div
Filplate—Centralab Div
Filplate—Centralab Core
Filterite—Deutschmann Corp
Titterited—Deutschmann Corp
Tobe
Filternite—Deutschmann Corp Filtermite-Deutschmann Corp

Filtermite—Deutschmann Corp
Tobe
Filter Point—Duotone Co
Filtorpak—Torocoil Co
Filtron—Richardson Labs
Finco—Finney Co
Finnflex—Finn & Co T R
Fireball—JFD Mfn Co
Firerod—Watlow Electric
Firewall—Rockbestos Prods
Firezone—Rockbestos Prods
Fischerine—Fischer & Co R A
Fischertherm—Fischer & Co R A
Fischer-Tone—Fischer & Co R
Fischeroutz-Tischer & Co R
Fischeroutz-

Co
5-Way—Surerior Electric
Fixtohm—Clarostat Mfg Co
Flame Rock—Montaine Corp
Flash-Flow—Ewald Instruments
Flathom—Centralab
Flawmaster—Biggs Co Carl H
Fleetcom—Communications Co
Fleetwoud—Conrac Inc
FleetALL—Rome Cable Corp
Flexaquide—Airtron Inc
Flexaust—Flexaust Co
Flexifone—Dukane Corp
Flexi-Ingre-Vanton Pump &

Flexifone—Dukane Corp Flexi-liner—Vanton Pump & Equip Flexite—Markel & Sons L Flexiah—Standard Electric Ti Flexifie—Columbia Wire & Supply Flexo—Art Specialty Flexohm—Clarostat Mfg Co FlexonFlexonics Corp Flexoprene—Standard Wire & Cable

Cable
Flexowax C—Glyco Products
Flex-Pak—Bogen Co David
Flexshield—Amer Elec Cable
Flightcom—Communications C
Flightweight—Good-All Elec
Flite Sound—Jack Scientific Instrument

Instrument
Instrument
Flo-Iron-Vari-L Co
Flow-Mizer-Brooks Rotameter
Flo-Paque-Floquil Products
Flowrator-Fischer & Porter
Fluoretor-Menlo Research Lab
Fluoroflim-Dilectrix Corp
Fluoroflex-Resistaflex Corp
Fluorofley-Int'l Resistance
Fluro-Eastman Kodak Co
Flux Gate-Eclipse-Pioneer
Fluxvalve-Dickering & Co Fluxvalve-Pickering & Co FM-General Riveters FM—General Riveters
FME—Federal Mfg & Eng'g
FM/Q—Apparatus Dev Co
Foamline—Plastoid Corp
Foamtube—Plastoid Corp
Focalray—Black Light Prods
Focalizer—Quann-Nitols Co
Foilcal—Miller Dial & Nameplate

Folded Unipole-Andrew Calif Corp Fonex—Transelectric Mfg Fonofluid—Ronette Acoustical

Fondilla — Ronette Acoustical
Corp
Forasite — Reichhold Chemicals
Formeze — General Cable Corp
Formbond — Acme Wire
Formar — Cable — Cable 0 S-Seamless Rubber

Fotolectric-Worner Electronic Devices
Foto-FLO—Haloid Co
Foto-foil—Miller Dial & Nameplate
Fotologic — Mailer Dial & Nameplate
Fotolux — Amer Speedlight
400 Series — Du Mont Labs A B Frahm — Biddle Co J G Frako — Gary Wells Co Franklin — Bernard Franklin Co Free-Vane — Bristol Co Free-Vane — Bristol Co Freen — Du Pont de Nemours Fresmels — Century Lighting Fretaray — Fretor Inc Fretline — Freto Inc Friden Tape Reader — Commercial Controls Friden Tape Reader—Commercia Controls Friden Flexowriter—Commercial

Fringecount—Link Aviation Inc Full-View—Brooks Rotameter Function Programmer—Hubbard

Full-View—Brooks Rotameter
Function Programmer—Hubbard
Scientific Labs
Fusebar—Workman TV Inc
Fuse-Lite—Alden Products
Fusetron—Bussmann Mfg Co
Fusionweld—Avon Tube Div
Fusistor—Bradford Components
Fuz-Lox—D & M Products
Fuzohm—Clarostat Mfg Co
FXR—F-R Machine Works
Fyberoid—Wilmington Fibre
Specialty
Fybrglass—Eraser Co
Fybr-Tech—Technical Ply-Wood Fybrglass—Eraser Co Fybr-Tech—Technical Ply-Woods

Fyre-Freez-Kidde & Co Walter

G-A—Grigsby-Allison Co
GA&F—Antara Chemicals
Gagetron—Instruments Inc
Galv-O-Mast—Mech Steel Tubing
Galv-O-Weld—Mech Steel Tubing
Gap/R—Philbrick Researches
Garceau—Electro-Medical Lab Gar-Forming—Gar Precision

Parts
Gask-0-Seal—Wolfe Co F C
GB—Goldsmith Bros Co S & R
GB Jet—Workman TV Inc
G-C—Gen Cement Mfg
Gearmotor—Foote Bros
GenCalloy-A—General Cable GenCalloy-A—General Cable
Gencasel—General Cable
Gencathene—General Cable
Gencathene—General Cable
Genco—Gen'l Photo Products
Gencrone—Gen'l Cable
General—Medal Mfg Co
Geon—Goodrich Chem Co B F Geon—Goddrich Chein Co B F Geotech—Geotechnical Corp Geotron—Geotronic Labs Gescor—General Crystal Co GH—Girad-Hopkins Giant Meters—Dittmore-Freimuth

Carp Gibsilay-Gibson Electric Co Gibsiloy—Gibson Electric Co Gibson Girl—Robins Industries Glas-Bond—Polymer Industries Glasohin—Clarostat Mfg Co Glasmold—Honeycomb Co of

Amer
Glastite—Warren Wire
Glaswitch—Revere Corp of Amer
Glennite—Gulton Mfg Corp
Globar—Carborundum Co
Globe Chamoion—WRL Elec-

Globe Chamoion—WRL Electronics
Globe Chief—WRL Electronics
Globe Kinn—World Radio Labs
Globe Scout—World Radio Labs
Globe Sanner—WRL Electronics
Glo-Drog:—Workman TV Inc
Glo-Melt—Wassco Elec Prod
Glo-n-Glo—Can Radium &
Uranium
Glyday—Acheson Colloids
Gnome—Carter Parts Co
Gobo Projector—Century Lighting
Goreler—Gary Wells Co
Goetze—Johns-Manville
Gold Crown—Pioneer Gen-EMotor

Motor Gold Cup-Carbonneau Industries Gold Cup—Carbonneau Industries Gold Seal—Corn Electric Co Golden Wand—Peerless Prods Ind Go-No-Go—Assoc Missile Prods Goodline—Wire Co of Amer Goodmans—Rockbar Corp Gotham—Hartford City Paper Co GOTHER RESISTOR CITY PAPER OF THE PROPERTY OF THE PAPER O

Transf Gramix—U S Graphite Grampian System—Gotham Audio Grand—Hartley Products Co Graphilm—Pettinos Inc Charles Gravalum—Hermes Plastics Greenbilt-Equipment & Service

Greenohm—Clarostat Mfg Greihach—Gulton Industries Gridaloy—Driver Co Wilbur B Grip-eze—Phelps Dodge Copper -Tru-Lock Fasteners Grinnit-Grip -Spintite-Stevens Walden

Groundometer—Johnson Aircraft
Eng'g Co M J
Growlers—Crown Industrial Prod Co Grundig-Majestic-Majestic Int'l

Grundig-Majestic—Majestic Int'i
Corp
GS—Gen'i Scientific Equip
GSI—Geartronics Corp
Guardian—Gen'i Cable
Guardian MK I.—G & M Equip
Guideline—Airtron Inc
Gyromatic—Reflectone Corp
Gyromatic—Reflectone Corp Gyrosyn—Sperry Gyroscope Gyrotron—Sperry Gyroscope

н Hailer Jr—Audio Equip Co Halldorson—Gramer-Halldorson

Transf Hallowell—Standard Pressed Steel Halolight—Sylvania Electric Prods Ham-Tenna—Illumitronic Eng'g

Prods
Ham-Tenna—Illumitronic Eng'g
Handie-Micro-Talkie—Motorola
Comm & Electronics
Handie-Micro-Talkie—Motorola
Comm & Electronics
Handie-Talkie—Motorola
Handy Flux—Handy & Harman
Harbot—Unimatic Corp
Harmon—Goodrich Chem Co B F
Haxalin—Du Pont de Nemours
Hazegage—Ess Instrument Co
Heatzene—Rockhestos Products
Hedene—Rockhestos Products
Hedin—Gen'l Automatic Corp
Heemco—Hill Electronic Eng'g
Helecon—U S Radium
Heliax—Andrew Corp
Helical—Foote Bros
Heli-Coil—Premmco Inc
Heli-Coil—Propp Industries
Helicop-Hut—Craig Systems Inc
Helidel—Helipot Corp
Hercules—Shure Bros
Herman Nelson—Amer Air Filter
Herss-Bright—SkF Industries
Herton—Durez Plastics
Herton—Durez Plastics
Herton—Durez Materials
Hiball—Radiart Corp
Hi-Ball—Radiart Corp
Hi-Brite—Shannon Luminous
Materials
Hico-Lite—Hauman Instrument
Hi-Cor—Alpha Metals
Hi-O—Penberthy Instrument

Hico-Lite—Hauman Instrument Hi-Do—Alpha Metals Hi-Do—Penberthy Instrument Hi-Do—United Aircraft Prods Hi-Farad—Aerovox Corp Hi-Flux—Annis Co R B Hi-go—General Controls Co High-Volt—Industrial Devices Hi-Kars—Centralab Div Hilger—Jarrell-Ash Hilo—Da-Lite Screen Hi-Kars—Centralab Div
Hilger—Jarrell-Ash
Hildo—Da-Lite Screen
Hi-Pressure—Brooks Rotameter
Hi-Q—Aerovox Corp
Hi-Q—Johnson Co E F
Hi-Stab—Erie Resistor Corp
Hi-Trim—Aerovox Corp
Hitronic—Bliss Electronic
Hi-V-Coliscs—Centralab Div
Hi-Vo-Discs—Centralab
H-Lab—Harrison Labs
Hobbs—Gould-Nat'l Batteries
HoistPhone—Mine Safety
Appliances
Homo—Leeds & Northrup

Appliances
Homo—Leeds & Northrup
Homocarb—Leeds & Northrup
Honeywell—Micro Switch Div
Hookswitch—Corona Eng'g

Service
Hornet—New York Transformer
Horton—Becker Electronics
Hotip—Contact Inc

Horton—Becker Electronics
Hotip—Contact Inc
House of Resistors—Clarostat
Mfg Co
Hoyt Meters—Burton-Rogers
HP—Aerovox Corn
HRU-60—Nat'I Company
H2O—Milton Roy Co
Huckholt—Huck Mfg Co
Hun-A-Ping—Page-Fogwell
Humdinger—Clarostat Mfg Co
Humidgraph—Bristol Co
Humidgraph—Bristol Co
Humidgraph—Bristol Co
Humidstat—Friez Instrument
Humistat—Amer Instrument
Hurletron—Electric Eye Equip
Hushed—Volkers & Schaffer
Husite—Huse Liberty Mica Co
Husky—Price Electric Corp
HVC—United Transformer
Hyam—Lindberg Eng'g Co
Hy-A-Sil—Miller Co Sanford
Hycar—Goodrich Chem Co B F
Hyco—Lindberg Eng'g Co Hyco—Lindberg Eng'g Co

Hycot—Lenz Elec Mfg
Hydramotor—General Controls
Hydra-Trol—Trimount Instrument
Hydrocide SX—Sonneborn Sons L
Hydrograf—Grafo Colloids
Hydrotcor—Amer Instrument
Hydrotcor—Amer Instrument
Hydrotcor—Amer Instrument
Hydrol—Cook Electric Co
Hyex—Lindberg Eng'g Co
Hyfux—Indiana Steel Products
Hyfor—Lenz Elec Mfg
Hy-G-300—Bendix Red Bank
Hyge—Cons Electrodynamics
Hyge—Lenz Elec Mfg
Hyglas—Lenz Elec Mfg
Hyglas—Lenz Elec Mfg
Hygrade—Foote Bros
Hygro Dial—Friez Instrument
Hygropak—Photo Crystals
Hy/Low—Stevens Products
Hy-Met—Astron Corp
Hypervac—Central Scientific
Hypex—Jensen Mfg Co
Hypot—Associated Research
Hyrad—Sequoia Process Corp
Hyrad—Sequoia Process Corp Hypot—Associated Research
Hyrad—Sequoia Process Corp
Hyray—Lenz Elec Mfg
Hysol—Houghton Labs
Hyspar—Midland Paint & Varnish
Hytafill—General Electric Co
Hytem—Lenz Elec Mfg
Hy-Themp—Andrew Calif Corp
Hy-Therm—Horkins Eng'g Co
Hytrol—Du Pont de Nemours &
Co E I
Hyvac—Central Scientific Co
Hyvol—Aerovox Cara

Tatron-Farnsworth Flectronics IBM—Int'l Business Machines
ICA—Insuline Corp of America
ICI—Instrument Cases Inc ICA—Insuline Corp of America
ICI—Instrument Cases Inc
Iconumerator—Du Mont Labs B
Ideala—Melody Master Mfg
Idealare—Lincoln Elec Co
Ideco—Dresser-Ideco Co
Ideco—Dresser-Ideco Co
Identasleeve—General Plastics
Identichart—Royson Engig
Identra—Union Switch & Signal
Idesco—Identification Serv
IERS—Int'l Electronic Res
II-TV—General Precision Labs
Illini—Illinois Condenser Co
Imcor—Insulation Mfrs
Imhof—Gary Wells Co
Imp—Carter Parts Co
Imp—Carter Parts Co
Imp—Carter Parts Co
Imp—Raar Engig Corp
Imperial—Jensen Mfg Co
Imperial—Jensen Mfg Co
Imperial—Vokar Corp
Imperial—Vokar Corp
Im-Plast—Richardson Co
Impulse Sequence—Bristol Co
IMR—Intelligent Mach Research
IMS—Injection Molders Surply
In-a-grip—Stevens Walden Inc
Inceloid—Amer Products Mfg
Inconel—Int'l Nickel Co
Ingreducto—CGS Laboratories Incoloid—Amer Products may Inconel—Int'l Nickel Co Increductor—CGS Laboratories Indalloys—Indium Corp of Amer Indeeco—Industrial Eng'g &

Equip Indeli-Dent—Markwik Mfg Co Inditron—Nat'l Union Elec Induct-O-Ring—Lindberg Eng'g Co Inductosyn—Farrand Optical Co

Inductosyn—Farrand Optical Co Induflux—Irwin Labs Industravox—Electronic Eng'g Industro—State Labs In-Line—JFD Mfg Co Inmanco—Insulation Mfrs Inonel X—Riverside—Alloy Metal Inspector—Black Light Prod Inc Instan-Form—TelAutograph Corp InstoChange—Bethlehem Ar Daratus

Apparatus
Inst-O-Matic—Wiggins Oil Tool
Co E B Instansolder---- Cole Radio Instrußex—Lenz Elec Mfg Insulink—Burndy Engineering Co Insulite—Extruders Inc Insulug—Extruders Inc Insulug—Burndy Engineering Co Insurok—Richardson Co Interadiocom—Stratford Corp Inter-Joint—Scientific Glass

Inter-Joint—Scientific Glass
Apparatus
Interlock—Hubbell Inc Harvey
Intermatic—Int'l Register Co
Invader—Ward Products
Invertro:—Behlman Eng'g
Ionotron—U S Radium
I Q Eye—Basic Controls
I Q Eve—I Q Industries
IRD—Int'l Research & Devel
Irish—Orradio Industries
IRL—Research Labs/Aeronca Mfg
IRN—Williams 2: Co C K
Isoglas—Natvar Corp
Iso-Kaps—Centralab
Isolie—Schenectady Varnish Co 150-KAES-WEHTMAD Isolie—Schenectady Varnish Co Isomelt—Schenectady Varnish Co Isonel—Acme Wire Isonel—Schenectady Varnish Co

Isophase—Pickering & Co ITC—Technology Instrument ITV Zoomar—Zoomar Inc

J
Jaco—Jarrell-Ash
Jagabi—Biddle Co James G
Jaico—Jaidinger Mfg
Jaincomp—Jacobs Instrument Co
Jam—Bell & Howell
JBL—Lansing Sound James B
J-E—Jackes-Evans Mfg
Jeco—Jarvis Electronics
Jensen—Whitney Metal Tool
Jetcal—B & H Instrument
JeTenna—JFD Mfg Co
Jet Flux—All-State Welding
Alleys Jet Flux—All-State Welding Alloys
Jet Stream—King-Seeley Corp JeTomic—JFD Mfg Co Jetube—Tuttle & Kift
Jevis—Land-Air Inc
Jiffy—Campro Prods
Jolta—Jan Hdw Mfg Co
Jomanco—Johns-Manville
JSC—Jersey Specialty Co
JSP—Instruments Inc
Jung—Hacker & Co Wm J
Junior-Helix—JFD Mfg Co
J-W—Johnson Williams

-Johnson Williams

Kalotron—Thermosen Inc Kalwood—Keller Prod Inc Kanigen—General Amer Trans-

Kanigen—General Amer Ira portation Kantark—Trico Fuse Mfg Karadio—Eckstein Radio TV Karak—Ohio Carbon Co Kasil—Philadelchia Quartz Karak—Ohio Carbon Co
Kasil—Philadelphia Quartz
Kathabar—Surface Combustion
Kaylock—Kaynar Co
Kel-F—Kellogg Co M W
Kelon—Shamban & Co W S
Kennett—Nat'l Vulcanized Fibre
Kepro—Keil Eng'g Prod Co
Keps—Shakeproof Co
Keps—Shakeproof Co
Kept—Kemet Co
Kidde-Atmo—Kidde & Co Walter
Kilotrol—Cook Electric Co
Kinglex—Collins Radio
Kintel—Cook Electric Co
Kinglex—Collins Radio
Kintel—Kay Lab
KL—Kenlite Labs Inc
Kleanrol—DuPont de Nemours
Kleanrol—DuPont de Nemours
Kleen Kote—Crown Industries
Kleer Kote—Crown Industries
Kleer Kote—Crown Industrial
Prods
Klieglights—Kliegl Bros
Klieglights—Kliegl Bros

Prods Klieglights—Kliegl Bros Kliplok—Trico Fuse Mfg Klipschorn—Klipsch & Associates Klixon—Metals & Controls Corp K-Lok—Erie Resistor K-Lok—Erre Resistor
Klozure—Garlock Packing
K & M—Keasbey & Mattison
Knight—Allied Radio Corp
Kodachrome—Eastman Kodak Co
Kodacolor—Eastman Kodak Co Kodacolor—Eastman Kodak Ckodar—Eastman Kodak Co Kodet—Eastman Kodak Co Korda—Chicago Gasket Korda-Flex—Chicago Gasket Kostreel—Kost Prods Kool Klamps—Birtcher Corp Kool Sel—Pyramid Elec Krister—Lektra Labs Kristel—Kriss Electronics Kromover—All-State Welding Alloys

K Series—Kay-Townes Antenna Kum-Kleen—Avery Adhesive Label
K-Tran—Seneral Instrument Corp
Kurmelec—Kurman Electric
Kwik—Dunton Co M W
Kwik-Kall—LogeSound Engineers J M Kwikits—University Loudspeaker Kwik Klip—South River Metal

Prods

Allays

Labcase—Berkshire Labs Labmarker—Berkshire Labs Labmaster—Gen'l Nuclear Labohm—Berkshire Labs Labrect—Berkshire Labs Carp Langeet—Berkshire Labs
Labstrobe—Berkshire Labs
Lab-Line—Dunlap Electronics
Labtrans—Berkshire Lahs
Lab-Volt—Buck Eng'g Co
Lackon—Sun Dial
Ladder Line—Illumitronic Eng'g
Lamator—Lamaco Inc Lamator—Lamaco Inc Lamco—Laminations Co Lamitex—Franklin Fibre Lansing—Altec Lansing Laqua—Fidelity Chemical Lazy-X-Radiart Corp Lead-Bender—Design Tool Lead-Former—Design Tool Leader\_Design Tool Leaguer—Antenna Specialists Leatheroid—Nat'l Vulcanized

Lecite—Electr-Chemical Eng'g Lectalite—Electric Auto-Lite Lectrodryer—Pittsburgh Lectrodiver Co
Lectronoscope—Ronar Inc
Ledex—Leland Inc G H
Leesona—Universal Winding Co
Leko's—Century Lighting
Lektron—Electronic Rectifiers
Lektrotuner—Conn Ltd C G
Level Master—Jo-Bell Prods
Levoiler—McGill Mfg Co
Lewis—Western Coil & Electrical
Lewis Vertical—Universal Prods
LF—Switchraft Inc dryer Co. Lewis Vertical—Universal Prod LFF—Switcheraft Inc LGP-30—Librascope Inc LGP-30—Royal Precision Corp Liad—Assembly Products Liberty—Amer Communications Lico—Life Instrument Licon—Illinois Tool Licon—Illinois Tool
Lifetone—Duotone Co
Light Warden—Electric Cord
Lignophol—Sonneborn Sons L
Limpander—Electric Systems
Eng'g
Linde Sapphire—Linde Air

Eng's
Eng's
Linde Sapphire—Linde Air
Products
Line-O-Life—Carter Motor Co
Line-O-Power—Foote Bros
Linne-O-Life—Carter Motor Co
Line-O-Power—Foote Bros
Linneweld—Lincoln Elec Co
Linklock—Simmons Fastener
Linvar—Muirhead & Co Ltd
Lion—Southoo/South Chester
Lipstik—Altec Lansing
Lira—Nine Safety Appliance
Litemaster—Art Specialty
Litemaster—Fiexo Int'l Corp
Lithaloid—Haloid Co
Little—Switchcraft
Little—Devil—Ohmite Mfg Co
Little Giant—JFD Mfg Co
Little Giant—JFD Mfg Co
Little Wonder—Trans-Lux Corp
Livermont—Richmont Inc
Living Presense—Melody Master
Mfg
Lloyd's—Johnson Mfg Co
Localities—Fostoria Pressed Steel
Lock-O-Seal—Wolfe Co F C
Loctite—Amer Sealants
Loge Lectern—Loge Sound Engrs
J M
Logger—Audio Instrument
Logoquant—Lonn Inc

Logger-Audio Instrument

Logger—Audio Instrument
Logoquant—Logo Inc
Lok-Thred—Nat'l Screw & Mfg
Lokuts—Shakeproof Corp
Long Life—EMC Recordings
Lon—Bradford Components
Lo-Ohm—Workman TV Inc Lo-Unim—Bradford Components
Lo-Ohm—Workman TV Inc
Loopstick—Supertex Electronics
Lorac-Seismograph Service Corp
Lotan—Assoc Amer Trading Div
Lotemp—Mico Instrument
Lo Tork—Waters Mfg
Lo-Volt—Industrial Devices
Lubr-lo—Permo Inc
Lucite—DuPont de Nemours
Lumatrol—Micro Balancing Lumenized—Eastman Kodak Co
Lumetron—Photovolt Corp
Luna-Lite—Lawter Chemicals
Lusterized—Amer Elec Cable
Lusterlac—Amer Elec Cable
Luxtrol—Superior Electric
Lyn-A-Syn—MinAtron Corp
Lyon's Chronometric—Boulin
Instrument

Lyon's Chronometric Instrument Lyticap—Planet Mfg

M

Mag—Assoc Amer Trading
Magdelay—Automation Inc
Magic Genie—JFD M'g Co
Magic-Tip—Hunter Tools
Magi-Tip—Hunter Tools
Magi-Mix—Technical Appliance
Magmeter—Airrax Products
Magmotor—Carter Motor Co
Mag-Nac—Magnetic Devices
Magnadura—Richardson Labs Mag. Nac.—Magnetic Devices
Magnadyne—Richardson Labs
Magnalarm—Brooks Rotameter
Magnapak—Rea Magnet Wire
Magnaponic—Magnasync Mfg
Magnaprobe—Eng'g Developments
Magnatest—Magnaflux Corp
Magnatore—Magna Electronics
Magnatore—Hansen Mfg Co
Magnatore—Hansen Mfg Co
Magnatore—Century Lighting
Magnavue—Brooks Rotameter
MagneDisc—Texas Instrument
Magneloop—Amplifier Corp of
America America

America
Magnemite Portable—Amplifier
Corn of America
MagneMusic—Magnecord Inc
Magnepulse—Magnetic Research
Magneraser—Amplifier Corp
Mamesin—Eclipse-Pioneer
Bendix Aviation

Bendix Aviation
Magne-Speed—Magnetic Amplifiers
Magnestats—Magnetic Research
Magnete—Heinemann Electric
Magneticom—Magnetic Recording
Magnorite—Norton Co

Nadar-Autonetics Div N Ameri-

Magnumatic—Brooks Rotameter
Magohm—Electric Regulator
Majorette—Major Electronics
Major-X—Balteau Electric
Mallard—Electrend Products
Maltese—Bache & Co Senon
Mamco—Master Appliance Mfg
Manganin—Driver Co Wilbur B
Mangalo Mangelsdorf—Stein Labs
Mangrid—Driver Co Wilbur B
Manhattan—Raybestos-Manhattan
Mani-Choke—Superex Electronics
Mapico—Columbian Carbon Co
Maraset—Marblette Corp
Marbelite—Good-All Electric
Mariner—Hudson American Corp
Mark II—Technical Devices
Marker-Pulser—Brubaker
Electronics

arker-Puise Electronics Floquil Prods Electronics
Markmaster—Floquil Prods
Marksman—West Instrument
Mark VIII—Warren Corp J C
Marvelite—C B C Electronics
Marvelwite—Sonneborn Sons L
Masco—Simpson Mfg Mark
Mascofone—Simpson Mfg Co

M Ark
M A Simulator—Miller Assoc
Masterline—Blonder-Tongue Labs
Master Met—Cannon-Muskegon
Mastertape—Audio-Master Corp
Mastertapes—Magnetic Sound Inc
Mastertrol—Emmett Mach & Mfg
Match Box—Johnson Co E F
Mathieson—Olin Mathieson
Chemical

Chemical
Matchstick—Johnson Co E F
Mauer—Niagara Electron Labs
Maximag—Adler Electronics
Mechanipak—Garlock Packing
Medalist—Marion Elec Instru-

Medal-Line-Medal Mfg Co Medi-Quartz—Dallons Labs Medi-Sine—Dallons Labs Medi-Sonar—Dallons Labs Medi-Sonar—Dallons Labs
Medi-Therm—Dallons Labs
Megalume—Nems-Clarke Inc
Mega-Node—Kay Electric Co
Megavox—Central Scientific Co
Megger—Biddle Co J G
Melacon—Photocircuit Corp
Mellotone—Electron Enterprises
Melndy Mike—Audia Esuia Ca Mellotone—Electron Enterprises
Melody Mike—Audio Equip Co
Memotron—Hughes Aircraft Co
MentoLab—Menlo Research Lab
Meritrol—Emmett Mach & Mfg
Merl-Miller-Electro Research
Mersemetric—Millton Roy Co
Mesh-Tech—Technical Ply Woods
Message Repeater—Mohawk Bus
Machines

Mersemetric—Milton Roy Co
Mesh-Tech—Technical Ply Woods
Message Repeater—Mohawk Bus
Machines
Mesurflo—Hays Mfq
Metalratic—Metal Textile Corp
Metalbraid—Hitemp Wires
Metal-Cell—Topatron Inc
Metalle—Astron Corn
Metapox—Metaplast Corp
Metameter—Bristol Co
Metero—Astron Corp
Metaneter—Bristol Co
Metevor—Astron Corp
Meteor—Astron Corp
Meteor—Warwick Mfg
Meter-Matic—Int'l Register Co
Meter-Matic—Leitch Eng'g Corp
Meter-Matic—Leitch Eng'g Corp
Meter-Matic—Leitch Eng'g Corp
Meter-Matic—Leitch Eng'g Corp
Meter-Matic—Int'l Register Co
Met-I-Flex—Robinson Aviation
Metlohm—Painton & Co
Metrix—American Metrix Corp
Metropolitan—Radion Corp
Metrosope—Photocon Research
Prods
MF—Micarta Fabricators

Prods
MF—Micarta Fabricators
Micabond—Continental - Diamond

Micabond—Continental - Diamond
Fibre
Micaflush—Mica Corp
Micaflush—Mica Corp
Micaply—Mica Corp
Mica-Ramic—Farnam Mfg Co
Micrelay—Ebert Electronics
Microact—Bristol Co
Microcon—Painton & Co
Microdials—Borg Equir George
Microdials—Borg Equir George
Microdie—Solar Aircraft
Microline—Sperry Gyroscore Co
Microlite—L O F Glass Fibers
Microlytic—Pyramid Elec
Micromags—Magnetic Research
Micromags—Magnetic Research
Micromags—Magnetic Research Micromatch-Jones Electronics Co

Micrometron—Optionic Research Micro-Miniature—General Electric

Micromotor-Redmand Co Micro-Namic-Micro Balancing Micropaints-Micro-Circuits Co Micropot—Borg Equip George Micro-Quartz—L O F Glass Fi-

Microsen-Manning Maxwell &

Microstar—Amer Optical Co MicroStrip—Premier Instrument Microtorque—Giannini Co Midgetalk—Simpson Mfg Co Mark Midgetape-Mohawk Bus

chines
Midg-O-Matic—Hays Mfg Co Mid-0-Matic—Hays Mfg Co Mid-Rip—General Cable Midway—Simpson Mfg Co Mark Millisadic—Cons Electrodynamics Millisacd—Stevens-Arnold Millivac—Bristol Co Mil-Wrot—Wrought Washer Mfg Minatone—Armstrong Cork MinePhone—Mine Safety Appli-

ances Mineralight—Black Light Corp of Amer or Amer
Mineralight—Ultra-Violet Prods
Mini Air—Milton Roy Co
Mini-Breaker—Mechanical Prods
Minicon - X—Robinson Mach

Works
Minicube—Sanders Associates
Miniflex—Lenz Elec Mfg
Miniflex—Lenz Elec Mfg
Mini-Gator—Mueller Electric
Mini-Mike—Telex Inc
Minimite—Astron Corp
Minimite—Thermo Elec Co
Mininiose—Microdot Inc
Minipak—Radio Specialty Mfg
Mini Pumc—Milton Roy Co
Minirelay—Ebert Electronics
Mini-Shield—Staver Co
Mini-Shied—Staver Co
Mini-Springs—Alden Products
Mini-Springs—Staver Co Mini-Space—Alden Products
Mini-Springs—Staver Co
Minitape—Stancil-Hoffman
Minitorque—Giannini Co
Minitron—Radio Eng'g Co
Mini Volt—Industrial Devices
Miracord—Audiogersh Corp
Miraloy—Texas Instrument
Mirabord—Audio Miraloy—Texas Instrument
Miraphon—Audiogersh Corp
Miratwin—Audiogersh Corp
Miro-Point—Duotone Co
Mi Tee Ray—Freto Ind
Mo-Bil-Ac—Star-Kimble Mot
Mobile-Dyn-Com—Bendix Rad
Mobilfone—Mobil Electronics
Modal—Airborne Instrument
Modelec—Modelectric Prods
Modernlab—Modern Lab Equi
Modified Hilo—Driver Co Wil
B Radio

Modified Hilo—Driver Co winour B Hoducell—Tortron Inc Modules—Hi-Q Div Aerovox Modulite—Berndt-Bach Inc Modul-Rak—Premier Metal Prods Modu-Wave—Sciaky Bros MoisturoMeter—Parks Lab Henry Francic

Francis
Molcote—Frenchtown Porcelain
Moldite—National Moldite Co Porcelain Moldite—National Moldite Co
Mold-Kap—Centralab
Molecule—Robinette Co W C
Molykote—Alpha Molykote
Monastrip EP—Mona Industries
Monatel—Westrex Corp
Monel—Int'l Nickel Co
Monitoradio—Regency Div
Monomapic—Pentron Corp
Monoplex—Shure Bros
Monoset—Telex
Monoset—Telex
Monoset—Lenz Elec Mfg Div IDEA

Monoset—Shure Bros
Monoset—Telex
Monotem—Lenz Elec Mfg
Mono-tronir—Wappler Inc
Montube—Tuttle & Kift
Monrobot—Monroe Calculating
Machine Co
Moody-Kit—Moody Mach Prods
Moto-Mite—Globe Industries
Motorelay—Corona Eng'g Service
Motorotor—Apparatus Dev Co
Motron—Robinette Co W C
Movno—Robinets Co W C
Movno—Robinets Co W C
Movno—Robinets Corp
M.S.A.—Mine Safety Appliances
MTEL—Warren Corp J C
Mufax—Murihead & Co
Multicon—Painton & Co
Multicon—Painton & Co
Multicon—Painton Research
Multi-Elmac—Multi Products Co Multi-Elmac-Multi Products Co Multifone-Simpson Mfg Co Mark Multifone—Simpson Mfg Co Multimeters—Rawson Elec Multi-Mount—Sterling E

Motors Multinlex—Chicago Industrial Multipot-Daystrom Pacific Corp Multipot—Paystroni Facinic Corp Multipot—Ford Eng'g Co Multi-Swane—Bead Chain Mfp Multi • Talk—Simpson Mfg Co

Mark Murasonde—Whitley Electron Musical Master—Greene Co -Whitley Electronics Musical mass.
Charlton
Muted Stylus—Shure Bros
Mechanics Mechanics Mykroy—Electronics Mechani Mykroy—Mica Fabricating Co Mylined—Thomson Industries

Na-Alden Products

can Avia Nagapak—Nagog Assoc Nagogatrol—Nagog Assoc Nalco—North American Lamp Namettes-Swenson Co V H Namettes—Swenson Co V H Narco—National Aeronautical Narcoil—NRC Equipment National—Gould-Nat'l Batteries National—Valco Mfg Co National Kantling—Nat'l Loc National Kantling—Nat'l Lock Washer
Nautilus—Hudson Amer Div
N-Cap—Eastern Precision Resistor Corp
Nebroc—Hitemp Wires
Negator—Hunter Spring Co
Nelco—New England Laminates
Nemcoite—New England Mica
Neo Flow—Peerless Photo
Neotel—General Cable
Nepco—National Electric Prods
Netco—New England Tape
Netcosol—New England Tape
Netcosol—New England Tape
Netcon—New England Tape
Netcon—Metron Mica
Neucork—Auburn Mfg
Neuron—Autron Engig
Neuron—Autron Co M
Never-Stain—Nichols Wire
New World—Deagan Inc J C
Nicad—Nickel Cadmium Battery Washer

New World—Deagan Inc J C Nicad—Nickel Cadmium Battery Niceloid Process—Bigelow Metal-lizing Chem Nielsen Electronics—Endeco Eng'y Devel Devel
Nigrite—Johns-Manville
Nikrothal—Kanthal Corp
Nilstain—Driver Co Wilbur B
Nitelighter—Fisher-Pierce Co
Nitrelmang—Foote Mineral
Nitro-Dur—Electr-Chemical Eng'g Nixie—Burroughs Corp
NL—Nat'! Electronics
NO-Batt—Bristol Co
Nobeloy—Continental Carbon
Noblette—Continental Carbon
Nobl-Ohm—Fairchild Control
Nodrseal—Johns-Manville
Nodrseal—Johns-Manville Carbon Controls Noiserase—Johns-Manville Noiseraser—Librascore Inc Nokorode—Dunton Co M W Norbide—Norton Co Norelco—Philips Electronics Norplex—Northern Plastics Norseman—Erikson Specia

Tool Northam—N American Instrument Northam—N American Instrument
Nox-Tarnish—Daubert Chemical
NPC—Nucleonic Prod Co
NRD—Nuclear Corp of Amer
NTT—Nat'l Tel-Tronics Corp
Nucor—Central Electronic Mfrs
Nucor—Nuclear Corp of Amer
Numar—Perkin-Elmer Corp
Numar-

Srecialized

Numechron—Pennwood Nume
Chron
Nu-Tronic—Nuclear-Electronics
Nu-Way—Marshall Assoc John
NWL—Nöthelfer Winding Labs
NYCO—New York Coil Co
NyCrip—Weckesser Co Nylaflow—Polymer Corp Nylaron—Polymer Corp Nylasint—Polymer Corp Nyoil—Nye Inc Wm F Nytran—New York Transformer Nyvar—Acme Wire

O-B—Ohio Brass Co
Obel—Gary Wells Co
Observer—Wells Co
Observer—Blonder-Tongue Labs
Occo—Ohio Crankshaft Co
Oeco—Osborne Electronic
OFHC—American Metal
OFHC—Phila Bronze & Brass
Dhiohm—Ohio Carbon Co
Ohmoid—Wilmington Fibre
Ohmstone—Johns-Manville
Dilday—Arheson Colloids
OilMite—Deutschmann Corp Tobe
DK—General Cable
Old Style Pitch—Koppers Co
Oliver—Rea Co J B
Omni Glow—Industrial Devices
150 Series—Sanborn Co
DPCO—Orondage Pottery
Dratron—DMCO
Drion—DuPont De Nemours
Orthonol—Mannetics Inc Dratron—DMCO
Drlon—DuPont De Nemours
Orthonol—Magnetics Inc
Oscar—Benson-Lehner Corn
Oscillatron—Saine Equip Lab
Oscillo-Record—Fairchild Camera

& Instrument Corn
Duncers—United Transformer
Ovaltube—Plastoid Corn Dxley—BR Radio Electronics O-Z—Zernickow Co D

PA-Aerovox Corp Pac-Erie Resistor Pace—Electronic Assoc
Pace—Precision Apparatus
Pacemaker—Johnson Co E F
Pace-Setter—JFD Mfg Co
Pacitron—Simmonds Aerocessories
Packmaster—Radio Specialty
Pad-Kaging—Peters-Dalton Inc
Paintgrip—Armco Steel
Pak-Fone—Industrial Radio Corp
Pal—JFD Mfg Co
PAMCO—Paraplegics Mfg Co
Panacoustic—U S Recording
Panalarm—Panellit Inc
Panalog—Panellit Inc
Panalog—Panellit Inc
Panalog—Panellit Inc
Panacoustic—Uc Security
Pandux—Pacific Transducer
Pan-Electronics
Paneloc—Scovill Mfg Paneloc—Scovill Mfg
Panelscopes—Waterman Prods
Pan-i-Lite—Alden Products Panto Drill—Du Mont Labs B Paraformed—Paramount Pape Tube Parami—Parsons Co Ralph M

Parami—Parsons Co Ralph M
Partek—Magnaflux Corp
Paulite—Luminous Resins
Paxar—Pacific Optical
Paxon—Pacific Optical
P& B—Potter & Brumfield
PEC—Centralab
Peco—Pacific Electricord Co
Peco—Pomona Electronics
Pee-Cee—Printed Cellophane Tape
Peerless—Altec Lansing Corp
Peerless—Mational Vulcanized Fibre Co
Peerless Rh—Peerless Film Prog-Peerless Rh-Peerless Film Proc-

essing Peerless Treatment—Peerless Film Processing
Peer-Renu—Peerless Film Proc-

essing
Pem—Dudek & Co R C
Pemco—Practical Electronics
Penacolite—Koppers Co Pendet-Centralah Pendet—Centralab
Penelgraph—Panellit Inc
Penelyte—St Regis Paper
Pengraf—Grafo Colloids
Pennrold—Penn Precision Prod
Penn-Tran—Penn Transformer
Perclene—Du Pont de Nemours
Pereco—Pereny Equipment
Perfectone—Audiomation Labs
Periscope—JFD Mfg Co
Perm-A-Caps—Chicago Condenser

Perma-Code—Brady Co W H
Permacode—Revere Corp of Amer
Permagrid—Driver Co Wilbur B erma - Grip—Avery Label

Permanickel-Int'l Nickel Co

Permanaper—Sanborn Co Permanast—Richardson Co Perma-Torq—Cambridge Ti onic
Perma-Tube—Jones & Laughlin
Patar Pan—Electronic Creations Perma-Tube—Jones & Laughlin
Peter Pan—Electronic Creations
Peter Pan—Teletone Co of Amer
P & H—Peck & Harvey
PhaloCom—Phalo Plastics
PhaloCord—Phalo Plastics Phalourd—Phalo Plastics
Phalo Phalo Plastics
Phalo Tel—Phalo Plastics
Phalo Tran—Phalo Plastics
Phantomette—Freto Inc
Phazor—Industrial Test Equip
Phenoline—Carboline Co
Phenolite—National Vulcanized

Fibre Co
Phenoweld #7—Hardman Co H V
Phillips—Harper Co H M
Phil-Trol—Phillips Control Phono-Cushion—Robins Industries
Phonostrobe—Berkshire Labs
Phoson—United Wire & Supply
Photofinish #4—Photocircuits

Corp Photom-X—Balteau Elect Corp Photogrobe—Electro-Physics Photo-Sphere—Basic Controls Photo-Sphere—I Q Industries Phototron—Thomas Electroni Flectronics

Phototron—Thomas Electronics
PicCaps—Chicago Condenser
PicBoost— C B C Electronics
Pick-A-Shaft—Clarostat Mfg Co
Picture King—Da-Lite Screen
Picturephone—McClure Talking
Pictures 0 J
Pig-Tailor—Bruno-NY Industries
Pig-A-Roo—JFD Mfg Co
Pip-Jet—JFD Mfg Co
Pip-Jet—JFD Mfg Co
Pironette—Presto Recording
Pisto-Grip—Wall Mfg Co P
Pitchlign—Roller Bearing Co
Pittlomatic—Ronan & Kunzl Pittcomatic—Ronan & Kunzl Pitco—Pittsburgh Coil PIV—Link-Belt Co Pixie-Cook Electric Co P-K-Parker-Kalon

Place—Nat'l Screw & Mfg Co Placel—Lenz Elec Mfg Planetaire—Planet Service Corp Planofax—Times Facsimile Plandrax—rimes racsinite
Plascot—Lenz Elec Mfg
Plasglas—Lenz Elec Mfg
Plasste—Lenz Elec Mfg Plasite—Lenz Elec Mfg
Plaskon—Barrett Div
Plaskon—Barrett Div
Plastacele—Du Pont de Nemours
Plasticon—Condenser Products
Plasticord—Chester Cable Corp
Plasticote—Chester Cable Corp
Plastote—Chester Cable Corp
Plastova—Richardson Co
Plasturbo—Master Appliance Mfg
Playmaster—Market Electric
Plica—Flexaust Co Playmaster—market Electric
Plica—Flexaust Co
Plugline—Jacobs Instrument
Plus Module—Ansley Mfg Co
Arthur
Plyacien—Reichhold Chemicals
Plyamine—Reichhold Chemicals
Plyamine—Reichhold Chemicals
Plymaster—Rubber & Asbestos
Plyophen—Reichhold Chemicals
Plymaster—Rubber & Asbestos
Plyophen—Reichhold Chemicals
PM—General Riverters
PM—Precision Metal Products
PNR—Rockbestos Prods
Pocket Power—Cook Co Frank R
Pocketscopes—Waterman Prods
Polar Path—Eclipse Pioneer Bendix Aviation Plica—Flexaust Co. Pocketscopes—Waterman Prods
Polar Path—Eclipse Pioneer Bendix Aviation
Polex—Union Plastics
Policarb—Driver Co Wilbur B
Polsignal—A R F Products
Polybond—Polymer Industries
Polycoupler—CGS Laboratories
Polycoal—Barden Co
Polyicn—Barden Co
Polyken—Kendall Co
Polyken—Kendall Co
Polyken—Pres Industrial Prods
Polyken—Pres Industrial Prods
Polylite—Reichhold Chemicals
Polymix—Bethlehem Apparatus
Polyom—Polytechnic Res & Dev
Polyox—Reichhold Chemicals
Polypen—Polymer Corp
Polypelm—Corp
Polypelm—Corp
Polypelm—Sturrup Co
Polytem—Lenz Elec Mfg
Polyval—Olympic Plastics
Pomendae—Presto Recording
Ponco—Ponn Mach Cutting
Ponogometer—Acton Labs
Portap Kall—Loge Sound Engineers
Portaplex—Chicago Industrial Portaplex—Chicago Industrial

Port-O-Rcel-Industrial Port-O-Reel—Industrial Elec
Works
Pottot—Clarostat Mfg
Pottermeter—Potter Aeronautical
Power Fireball—JFD Mfg Co
Power Helix—JFD Mfg Co
Power-United Shoe Mchy
Powereel—Industrial Elec Works
Power House—Black Light Prods
Power Lab—Precise Development
Powerloid—Guardian Elec Mfg
Powermaster—Huno Electronics Powerloid—Guardian Liec miy Powermaster—Hupp Electronics Power Pak—Black Light Prods Powerstat—Superior Electric Powerstreak—Amer Elec Cable . Omerscreak—Amer Elec Cable Powrpage—University Loud-speakers

Inst

Powrpage—University Loudspeakers
Powr-Rib—Ohmite Mfg Co
Precise-Ohm—Precision Inc
Precision—Lincoln Elec Co
Precision-Built—Pratt Albert
Precision-Bude—G-L Electronics
Press-Fit—Sealestro Corp
Pressite—W Va Pulp & Paper
Pressovac—Central Scientific
Pressure Blast—Cro-Plate Co
Presto—Precision Thermometer
Printometer—Electro-Physics
Privater—Hudson American -Hudson American Privateerrivate Line-Conn Telephone &

Elec -Achesan Callaids Productimeters—Durant M Professional JR—Camera

Profilometer-Micromentrical Mfg Progress Line-General Electric Project-o-rama-Century Lighting Prorellair—Robbins & Myers Protomaka—Printed Electronics Protomaka—Printed Electronics
Psychron—Friez Instrument
Pulsescopes—Waterman Product
Pulsignal—A R F Products Inc
Pultec—Pulse Techniques
Pushnut—Palnut Co
PVZ—General Electric Co
Pyle-Star-Line—Pyle Nat'l Co
Pylests—The Pyle Nat'l Co
Pyralin—Du Pont de Nemours
Pyron—Pyrometer Instrument Products Pyro—Pyrometer Instrument Pyro-couple—Royco Inst Pyrohm—Aerovox Corn Pyromaster—Bristol Co

Pyrotrol—Bristol Co Pyrovsor—Bristol Co

Q-Beston—Auburn Mfg
Q D I — Quantametric Devices
Q-Tran—Johnson Electronics
Quad Ring—Minn Rubber &
Gasket
Quadiriphase—General Electric Co
Quad-tronic—Wappler Inc
Quality—Vokar Corp
Quick-Hot—Wen Products
Quick Lock—Simmons Fastener
Quick-Wedge—Kedman Co
Quik-Rig—JFD Mfg Co
Quik-Shot—Kemode Mfg Co
Quincrgo—Johns-Manville
Quinorgo—Johns-Manville
Quinterra—Johns-Manville
Quinterra—Johns-Manville

Rad-A-Cor—Magnetic Core Corp Radaset—Bolton Labs Radat—Skiatron Electronic & TV Radector—Jordan Electronics Radelin—U S Radium Radi-Aire—Reynolds Electric Co Radialead—Design Tool Radialoy—Radial Cutter Mfg Radicom—Crosby Labs Radio Alloy—Driver Co Wilbur B Radiocarb A—Driver Co Wilbur B

Nadio-Com—Trans-Tel Corp
Radiocrafter—Technicraft Co
Radiodyne—Western Coil
Radioear—Myers & Sons E A
Radiohm—Centralab
Radiotron—Radio Corp of Amer
Rafax—Haller Raymond & Brown
Rakscopes—Waterman Prods
Raluco—Radium Chemical
Ranarex—Permutit Co
Rancho—Western Insulated
Wire
Ranchoprene—Western Insulated

Ranchoprene—Western Insulated Wire Randolph—Northern Metal Prod Ranger—Johnson Co E F Ranger—Pye Telecommunications Ranger—Shure Bros Ranger—Shure Bros Ranger—Shure Bros Ratotran—Gertsch Products Ratotimer—Farmer Electric Ray-Actor—Atomic Labs Raydist—Hastings-Raydist Inc Raylac—Leuz Elec Mfg Raymaster—Atomic Labs Raymaster—Atomic Labs Raymaster—Atomic Labs Rayouton—Atomic Labs Rayouton—Atomic Labs Rayotron—Atomic Labs Rayotube—Leeds & Northrup Raytector—Miller Assoc R B C—Roller Bearing Co RCA—Radio Corp of Amer RCE Solution—Hunt Co Philip A RCI—Rotating Components Inc R & D—Librascope Inc Rdf Stikon—Ruge Assoc Arthur C

C
Reac—Reeves Instr Co
Readix—Rea Co J B
Ready—Rolab Studios
Reapak—Rea Magnet Wire
Rear Guards—Kay-Townes An-

Rear Guards—Kay-lownes Antenna
Re-Cirk-It—Heinemann Elec
Reco—Rectifier Engineering
Reco—Revolds Electric Co
Recordall—Miles Reproducer
Recordak—Eastman Kodak Co
Record-Flow—Watson Mfg Co
Recordoscope—Aremac Assoc
Recoton-Goldring—Recoton Corp
Rectagraph—Haloid Co
Recti/riter—Texas Instrument
Rectodyne—Christie Electric
Redcap—Michigan Electronics
Red Center—Simonds Saw &

Steel
Red End—Simonds Saw & Steel
Red Seal—Radiart Corp
Red Streak—Brown-Bridge Mills
Red Streak—Simonds Saw & Steel
Red Tang—Simonds Saw & Steel
Red Wood—JFD Mfg
Reevelec—Reeve Electronics
Regatrone—Electronic Measure-

ments Co
Regency—Industrial Dev Eng'g
Assoc
Regohn—Electric Regulator
Reg-O-Matic—CBC Electronics
Renular—Paramount Paper Tubc
Reichert—Hacker & Co Wm J
Rejafix—Popper & Sons
RejuvaTester—TeleTest Instru-

ment
Rel—Radio Eng'g Labs
Reliable Mailer—Corrugated Paper Prod
Reliacap—Sanders Associates
Reliatron—Westinghouse Electric

Reloid—Guardian Rembrandt—All Channel Antenna Remoon—Pyramid Instrument REN—Nebel Lab R E Repeater Records—Talking Devices CO Regorter—Pya Telecommunications

Residential—Northern Chemical
Resinite—Borden Co
Resinol—Allied Resinous Prods
Resotron—General Electric Co
Reswax—Borden Co
Retep—Hitemp Wires
Rex—Air Controls Inc
Rex—Astron Corp
RFC—Radio Frequency Co
RFI—Ace Eng'g & Mach Co
Rhodex—Sel-Rex Corp
Ribbon Heat—Cox & Co
RIcap—Radio Industries
Richelain—Richardson Co
Rigid-Riy—Medal Mfg Co
Ritenhm—Ohmite Mfg Co
Ritenhm—Codrich Aviation
Rem—Redio Materials Corp
RMS—Radio Merchandise Sales
R-95—Raytheon Mfg Co
Robotrol—Retiantee Automatic

Robotrol—Reliance Automatic
Lighting
Robotrol—Emmet Mach & Mfg
Rodar—Driver Co Wilbur B
Roflex—Rome Cable Corp
Roger—Rolab Studios
Rol-Dex—Watson Mfg Co
Rolene—Rome Cable Corp
Rollotron—Amer Air Filter
Rollpin—Elastic Stop Nut Corp
Romarine—Rome Cable Corp
Romarine—Rome Cable Corp
Romerine—Rome Cable Corp
Romone—Rome Cable Corp
RosinX—Dunton Co M W
Rotary Ratiotran—Gertsch Products
Robots Market Market Corp

ucts
Roto Brake—Hy-Gain Antenna
Prod Co
Rotobridge—Comm Measurements
Rotofold—Reflectone Corp
Roto-King—JFD Mfg Co
Roto-King—JFD Mfg Co
Roto-Lock—Simmons Fastener
Roto Modd—Linear Inc
Rotoroid—Burnell & Co
Roto-Roto Mfg Co
Roto-Tork—Haydon Co A W
Roto-Trols—Healy-Ruff Co
Rova-Lite—Terrado Co
Rovalitic—Industrial Condenser
RoZone—Rome Cable Corp
RPC—Resistance Products
RSCO—Research Srecialties
RTV—Clarostat Mfg
Rub-Erok—Richardson Co
Rubyfluid—Rubv Chemical Co
Rubyfluid—Rubv Chemical Co
Rubyged—Hi-G Inc
Rulan—DuPont de Nemours &
Co EI

Rulan—DuPont de Nemours & Co EI
Ruralay—General Cable
Rurax—Palmer Inc M V
Rush—Eraser Co
Rustbond Primer—Carboline Co
Rycom—Railway Communications

Sadic—Consolidated namics
Safety m i—Gen'l Cable
Safety-Plus—Chicago Screw Co
Salvage Kraft—Floquil Products
Sapphire—National Aeronautical
Sarah—Simmonds Aerocessories
Sassi—Assc Amer Trading Div
Saucerline—Fretco Inc
Sav-A Step—First Electronics
Scenic Roller—Da-Lite Screen
Scmatco—Stone City Mch &

Tool
SCE Solution—Hunt Co Philip A
Schenck—Cosa Corp
Schweppe—Pheoll Mfg Co
Scintillator—Precision Radiation
Inst

Scintillator—Precision naturalism.
Inst
Scotch—Minn Mining & Mfg
Scotchcast—Minn Mining & Mfg
Scottie—Remier Co
Scribecote—Floquil Products
Sealant—Amer Sealants
Sealink—Burndy Corp
Seal-Strip—Babbitt Chemical Co
Sealed Brilliance—Safetee Glass
Co

Sealnut—Radio Frequency Labs Sec—Southern Electronics Seconde—Floctrical Communications Corp

Sector—Jensen Mfg Co Seelbolt—Automatic & Precision Mfg

Seelskrew—Automatic & Precision
Mfg
Seep-O-Mike—Poole Instrument
SeeZak—U M & F Mfg Corp
SeisMac—Texas Instrument
Seismatron—Texas Instrument
Selectofon—Audio-Master Corp
Selectohm—Chicago Industrial
Inst

Selectronics—Electrical Communications
Selekta—Assoc Amer Trading Div Selenibrake—Amer Rectifier
Selenifier—Amer Rectifier
Sems—Shakerroof Corp
Sencore—Service Instrument
Sensory Signalling—Sturtevant Co
PA
Service Rectall Co

Sentinel—Photobell Co
Seyvospeed—Electro-Devices
Sequetrol—Emmett Mach & Mfg
Seramelite—Good-All Electric
Servicespool—Alpha Wire
Servoflex—Servo Corp of Amer
Servoflight—Servo Corp of Amer
Servo-Graphic—Stoelting Co C H
Servoscope—Servo Corp of Amer
Servo Corp of Amer
Servo Corp of Amer
Servo-Graphic—Stoelting Co C H
Servoscope—Servo Corp of Amer
Servo Leagues Ahead—Thermador
Electronics

Electronics
777 Series—Warren Corp J C
F—Switchcraft
Shadograrh—Exact Weight Scale
Shamon-Glow—Shannon Luminous
Materials

Materials
Shawut One-Time—Chase-Shaw-

mut Ship Shape—Bemis Bro Bag Shock Bilt Mailer—Corrugated Parer Prod

Parer Prod
Sho-Rate—Brooks Rotameter
Shorthorn—Klipsch & Assoc
Shurflo—Anchor Metal Co
Shur-Flo—Hays Mfg
Shuvee—Entron Inc
Sieco—Sherman Industrial Electronics Co
SIE—Sauthwestern Industrial

SIE—Southwestern Industrial
Electronics Co
Sightmaster—Art Srecialty
Sightmaster—Flexo Int'l Corp
Sigmatron—Intercontinental
Dynamics

Signa-flo—Buffalo Electronics
Signa-Glow—Industrial Devel
Signal Sentry—Johnson Co E F
Silastic—Dow Corning Corp
Sil Bond—United Wire & Supply
Silcad—Yardney Electric
Silcobest—Silicone Insulation
Silertex—Erie Resistor Corn
Sil Flux—United Wire & Supply
Sil-Fos—Handy & Harman
Silicohm—Sage Electronics
Silic-O-Netic Heinemann Elec
Silic-O-Netic Heinemann Elec
Silikone—Ed-Berl Products
Silkenite—Acme Wire
Silotex—Anaconda Wire & Cable
Silutes—Anaconda Wire & Cable
Silutes—Ed-Berl Products
Silver Arrow—Fretco Inc
Silver Arrow—Fretco Inc
Silver Argen—Yardnev Electric
Silver Kinn—Da-Lite Screen
Silver Label—Dunton Co M W
Silver-Packets—Bigelow MetalLivine Chem

SINVET-PACKETS—Digerow metalizing Chem Silver-Q—Decimeter Products Silvertone—Warwick Mfn Silver Wand—Peerless Prods Inc Silverey—Sel-Rex Corp Silvsteel—Emerson-Sark-Warner Silwynd—Rerublic Foil & Metal Simplex—Chicago Industrial Inst Simplex—Wenco Mfg Co Sinclair-Phoenix—Phoenix Precision Instrument

sion Instrument
Sincomax—Maurex Ltd
Sindak—Southern Instr Computer
Sintilon—National Radiac
60 Case—Thomson Industries
SK—Skottie Electronics
SKL—Spencer-Kennedy Labs
Sky-Hi—Thomas Mold & Die
Sky-Lok—JFD Mfg Co
SL—Mallinckrodt Chem Works
Slendyne—Shure Bros
Slideohm—Aerovox Corn
Slikwynd—Republic Foil & Metal
Slimtrim—Litton Ind of Md
Slo-Speed—Sterling Electric Mo-

Slumbertone—ElectroSound Corp SM Safety Margin—Astron Corn Small Talk—Simpson Mfg Co Mark SMC—St Marys Carbon Co

Smitty—Hunter Tools Smog-Free—Radex Corp Smokegage—Ess Instrument Co Smoothie—Resistors Inc Snaco—Schirmer-Nat'l Alarm S N Alarm—Schirmer - Nat

Alarm
Snapit—Cable Electric Products
Snapper—Curtiss-Wright Corp
Snap-Tite—Centralab
Sniffer—Johnson-Williams Inc
Snorkel—Radion Corp
Snowhite—Luxor Lighting Prods
Sodereze—Phelps Dodge Copper

Prod
Sola-Flex—Solar Aircraft Co
Solaramic—Solar Aircraft Co
SolaVolt—Sola Electric Co
Soldermaster—Hexacon Elec Co
Solderux—Mico Instrument
Solerall—Brach Mfg
Solite—Solar Aircraft
Sol-Rex—Herzog Miniature Lamp

Works
Sonita—Beam Industries
Sonicell—Gen'l Ultrasonics
Sonisystem—Gen'l Ultrasonics
Sonite—Smooth-On Mfg
Sonizon—Magnaflux Corp
Sonodone—Shure Bros
Sonogen—Branson Instrument
Sono-Kleen—Sonneborn Sons L
SonNoMar—Sonneborn Sons L
Sono-Probe—Advanced Electronics
Soundasorb—Jack Scientific Co
Soundcardt—Reeves Soundgraft
Soundscope—Mine Safety Appli-

Soundscore—Mine Safety Appliances

Sran—Sensory Inc

Spar—Video Accessory Mfg

Spauldite—Spaulding Fibre

Srauido—Spaulding Fibre

Srauido—Spaulding Fibre

Spectrower—Nat'l Spectrographic

Spectra—Photo Research

Spectra-Strir—Organic Devel

Spectromet—Baird Assoc

Spectromet—Baird Assoc

Spectromet—Baird Assoc

Spectromet—Baird Assoc

Spectromet—Baird Fight

Spect Master—Jensen Mfg Co

Speed Bin—Speedassembly Equip

Speed Clamps—Tinnerman Prods

Speed Clics—Tinnerman Prods

Speed Clics—Tinnerman Prods

Speed Clostrol—Safe Flight In-

strument Speedcraft—Wire Stripper Speed Grips—Tinnerman Prods Speed master—Accurate Eng'n Co Speed Nuts—Tinnerman Prods Speedomax—Leeds & Northrup

Speed-Trol—Sterling Elect Motors Speed-X—Johnson Co E F Speedy-Cal—North Shore Nameplate Inc Speedy-Marx—North Shore Name-

plate Inc
Speengee—Brooks Rotameter
Speen PAC—Jeffers Electronics
Spencer—American Optical Co
Spico—Spirling Products Co
Spider—Camera Equip Co
Spiglas—Lenz Elec Mfg
Spincloustic—Johns-Manville
Spinlab—Special Instruments
Spin-Lock—Russell Burdsall

Ward
Spin-Pin—Bruno-N Y Industries
Spin-Tin—Stevens-Walden
Spirafil—Saxton Products
Spiralpot—Giannini & Co
Spiral-Tenna—Hi-Lo TV Antenna
Spiral Wrap—Illumitronic Eng'g
Spirator—Hunter Spring Co
Spirolox—Thompson Prods
Spirotallie—Johns-Mauville
Splac—Westline Products Div
Spongex—Goodrich Sconge Prods
B F

S F Spotcheck—Magnaflux Corp Spraint—Waldom Electronics Spring-Cork—Spring Packing Spring-Felt—Spring Packing Spring-Kote—Spring Packing Spring-lock—Simmons Fastener Spring-O-Matic—Industrial Elec

Works
Spring-Tape—Spring Packing
Square-Ohm—Bradford Components

Square-Ohm—Workman TV Inc SRC—Br Radio Electronics SRP—Sonneborn Sons L Stablek—Industrial Condenser Stabiline—Superior Electric Stablvolt—Magnetic Research Stanco—Standard Electrical Prods Stancor—Chi Std Transformer Stancote—Standard Wire & Cable Standard—Hull-Standard Corn Standard—New York Solder Co Standard Fireball—Standard Coil

Stanulard Neutrode—Standard Coil Prod Standee—Clarostat Mfg Standohm—Tru-Ohm Products Staneon—General Cable Stanitex—Standard Wire & Cable Stanitex—Standard Wire & Cable Stanitex—Standard Register Star-Helix—JFD Mfg Co Starlight—Metzner Eng'g Star Line—Duotone Co Staticator—Hewson Corp Stato-Oseal—Wolfe Co F C Stat-Tran—Pulse Eng'g Stavolt—Christic Electric Steel Age—Corry-Jamestown Mfg Steelarc—All-State Welding Steinlite—Stein Labs Stemco—Stevens Mfg Co Step-Servo—Bergen Labs Stereo-Magnemite—Amplifier Corp of Amer

Corp of Amer Sterilaire—Black Light Corp Sterilaire—Ultra-Violet Prods Stero-magic—Pentron Corp Stewart-Translux—Trans-Lux

Corp
Stakes PVC—Stakes Molded
Prods
Stokolite—Stakes Molded Prods
Stokokherm—Stakes Molded Prods
Storaway—Birdair Structures
Strain-ez—Warpler Inc
Straitlo—Hays Mfg
Strato—Sraulding Prod Co
Strat-O-Lite—Stratoseal Mfg
Strato-Stite—Stratoseal Mfg
Strip-O-Seal—Wolfe Co F C
Strobcacom—Kenite Labs Inc
Strobcacom—Kenite Labs Inc
Strobcacom—Kenite Labs Inc
Strobcacom—Con Ltd C G
Strobcacom—Heiland Div Honey-well

well
Strobot-Sync—Winkler Labs
Strobotac—General Radio Co
Strobotuner—Conn Ltd C G
Studio Zoomar Inc
Sturges—Electronic Batteries
Stycast—Emerson & Cuming
Styrofler—Natvar Corp
Suburban—Radion Corp
Sunswitch—Ripley Co
Supera;—Aner Super-Tem
Wires

Wires
Super-Beam—JFD Mfg Co
Supercable-A—Amer Super-Tem
Wires
Super Cap—United Electronic

Mfg Super-Davohm—Daven Co Super-Dodo—JFD Mfg Co Super Dylan—Koppers Co Super Super-Tem

Wires
Super Fine—L O F Glass Fihers
Superflake—Superior Graphite
Surer Katy—Kay-Townes

Surer Katy—Kay-Townes
Antenna
Superlead—Amer Super-Tem
Wires
Superline—Superior Insulated

Supermin—Amer Super-Tem
Wires
Super Power-Helix—JFD Mfg Co
Super-Power-Jet—JFD Mfg Co
Super Service—General Cable
Supershath—General Cable
Surerspeed—Enthoven Solders
Super Star-Helix—JFD Mfg Co
Super Star-Helix—JFD Mfg Co
Super Star-Helix—JFD Mfg Co

Wires
Supertel—General Cable Corp
Supertemp—Modern Lab Equip
Supertennas—Tennalab
Supertester—Calif Tech Industries
Supertube Amer Super-Tem

Supertube—Amer Super-Tem Wires Supervac—Central Scientific Supramina—Mycalex Corp Su-Pr-Circuits—Cleveland Metal

Métal
Supreme—Oxford Electric
Supro—Valco Mfg Co
Surco—Surcrenant Mfg
SurEcho—White & Sons W O
Sure Flux—New York Solder Co
Surface Barrier—Lansdale Tube

Co Surflene—Surprenant Mfg Surgelite—Kemlite Labs Surgytherm—Warpler Inc SW—Stevens Wallden Swaged Mgo—Aero Res Instru-

ment
Swiftol—Southwest Products
Swing Rig—Video Industries
Sylkyd—Dow Corning Corp
Syl-O-White—Maymer Corp
Sylphon-Robertshaw-Fulton
Sylvaloy—Driver Co Wilbur B

Symbostamp—Griffin Co John Synchron—Hansen Mfg Synchrotone—Magnetic Recording Inc
Synchro Tuner—Woodwelding Inc
Synchro Valve—Bristol Co
Syncrogear—U S Elec Motors
Syncroverter—Bristol Co
Synkote—Plastoid Corp
Synthamica—Mycalex Corp
Synthesizer—Amer Scientific
Syntho—Electr-Chemical Eng'g

Tackmaster-Rubber A sheet ns Taco—Technical Appliance
Takcal—B & H Instrument
Takk—Hewson Co Takktron-Hewson Co Talkie Tapes—Talking Devices

Talkie Tapes—Talking Devices
Co
Talkie Tapes—Talking Devices
Co
Talkmaster—Dalmotron Co
Talkmaster—Dalmotron Co
Talkmaster—Dalmotron Co
Talky Pac—Barkley & Dexter
Tan-O-Mite—Ohmite Mfg Co
Tapetale Broadcast Equip Spec
Tape-Stripper—Design Tool
Tap-Lok—Groov-Pin Corp
Tappees—Saxton Products
Tap Welders—Ewald Instruments
Target—S & A Electronics
Tarrytron—Cook Electric Co
Tattelite—Sittler Corp
Tau Bolt—Huck Mfg Co
Taylor—Continental Elec
TCC—Telegraph Condenser
TCC—Telegraph Condenser
TCC—Telegraph Condenser
TCC—Telegraph Condenser
TCC—Telegraph Condenser
TCC—Telegraph Condenser IDI—Tele-Dynamics Inc
TD Renewable—Chase-Shawmut
Technigrach—Technicraft Co
Tecco—Trutone Electronic
Tefex—Union Plastics
Tefglass—Amer Super-Tem
Wires
Tefffon—Audio Mactor

wires Tefifon—Audio Master Teffex—Chicago Gasket Teffex—Boston Insulated Wire & Cable

Teffex—Boston Insulated Wire & Cable
Cable
Teflon—DuPont de Nemours
Teftube—Amer Super-Tem Wires
TEI.—Thomas Electronics Inc
Tektolog—Fielden Instruments
Tektor—Fielden Instruments
Tektor—Fielden Instruments
Tel-Corr—Magnetic Core Corp
Tela-Ear—Telex Inc
Tel-A-Pipe Westline Products
Telco—TV Hardware Mfg
Telcord—Amer Super-Tem Wires
Telecolor—Musicolor Inc
Telecon—Teletenna Co
Tele-Flex—Telerad Mfg
Teledunken—American Elite
Tele-Guide—Telerad Mfg
Telemark—Leupold & Stevens
Telemike —Miles Reproducer
Telemusic—Crawford's of Beverly Telemusic-Crawford's of Beverly

Hills
TelePlex—JFD Mfg Co
Tele Process—Trans-Lux Corp
Telering—Telkor Inc
Teleset—DuMont Labs A B
Tele-Set—Telex Inc
Telesyn—Ford Instrument
Teletalk—Webster Electric
Teletone—Electronic Creations
Tele-Troc—Teletronic Labs
Tele-Twin—JFD Mfg Co
Telogiector—Gray Research &
Devel

Devel Devel
Devel
Telstor—Frielden Instrument
Tel-Tru—Hil & Co E V
Tempall—Deutschmann Corp

Tobe
Tobe
Tobe
Tobe
Temphraid—Hitemp Wires
Tempcal—B & H Instrument
Tempcal—B & H Instrument
Tempcal—Hitemp Wires Inc
Tempcal—Hitemp Wires Inc
Tempcal—Tempil Corp
Tempilstik—Tempil Corp
Tempolome—Ulear Beam Antenna
Tempren—Hitemp Wires Inc
Temprex—Hitemp Wires Inc
Temprex—Tempil Corp
Temprex—Hitemp Wires Inc
Temprex—Hitemp Wires Inc
Temprex—Tempil Corp
Temprex—Hitemp Wires Inc
Temprex—Hitemp W

Rubber Tempseal—Nat'l Eng'g Prods Tempswitch—Scaico Controls Inc Temptube—Hitemp Wires Inc Temptube—Crown Controls

Tenna-Pak-JFD Mfg Co Tennez/pere—Tenney Eng'g Inc
Tennez/pere—Tenney Eng'g Inc
Tensite—Driver Co Wilbur B
Tensilok—General Cable Corn
Tensolex—Tensolite Insulated
Wire Co
Tensolon—Tensolite Insul Wire
Terrier—Convair Pomona
Tesadur—United Mineral &
Chemical

Chemical

Tesaflex—United Mineral & Chemical
Tesamoll—United Mineral & Chemical

Tesco—Eastern Specialty
Testlite-Fuspul—Dante Electric Testinte-Puspui—Dante Electric
Mfg
Test Master—Precision Apparatus
Test-O-Lite—Brach Mfg
Tetrafilm—Shamban & Co W S
Tex-Cap—Texas Capacitor Co
Textolite—General Electric Co

TG—Leitch Eng'g Corp
The Listener—Otarion Inc
Theremin—ElectroSound Corp
Thermacal—North Shore Namplate
Thermaheading—New Rochelle Tool

Tool
Thermaleze—Phelps Dodge
Copper Prods
Thermalon—Hitemp Wires Inc
Thermatool—N Rochelle Tool
Thermax—General Cable
Thermax—Girdler Co
Thermistol—Workman TV Co
Thermocap—Niagara Electron
Labs

Thermodyne-Modern Lab Equip Thermo-Humiduraph—Bristol C Thermo-Humiduraph—Bristol C Thermolastic—Cox & Co Ther-monic—Induction Heating

Co Thermoratch—Cox & Co Thermosheet—Cox & Co Thermostatic Brain—Wall

Co Thermoswitch—Fenwal Inc Thermo-Tip—Ideal Industries Thermoverter—Bristol Co Thermowire—Cox & Co Thin Strip—Somer's Brass Co Thin Strip—Somer's Brass Co Thorex—Onlio Brass Co 3C-Bloc—Computer Control Co 3C-Pac—Computer Control Co 3D-Dimension—Freto Inc Thriftmaster—Thomson Indus-

tries
Three-Phase—Sciaky Bros
Thru-Con—General Electric Co Thyra-Line—Hanson-Gorrill-

Thyra-Line—Hanson-borrin-Brian T-I—Transformers Inc Ti-Co—Thomas Inst Co Time-All—Int'l Register Co Time-Fax—Times Facsimile

Ilme-Fax—Ilmes Facsimile
Corp
Time-Master—Dictaphone Corp
Time-Minder—Int'l Register Co
Tim-O-Weld—First Electronics
Tini—Switchcraft Co
Tiny-Flow—Industrial Devices
Tinymax—Torwico Electronics
Tinymite—Renbrandt Inc
Timpde—Walkief Co Tionode—Walkirt Co
Tip-Tipco Mfg Co
Tip-Switch—Gorn Electric Co
Tip-Top—General Cable
Tite Grip—Dante Electric Mfg
TM—Page-Fogwell Corn
TM—Tepro Electric Corn
TM's—General R F Fittings
TMI—Thermo Materiak Inc
TNC's—General R F Fittings
Tohemite—Deutschmann Corp
Tobe Tionode—Walkirt

Tobe
Tocco—Ohio Crankshaft Co Tok-A-Vox—Cooper Electronics Tomahawk—Stevens-Walden Tom Thumb—Automatic Radio Tonepak—Lee Electric Tong Test—Columbia Electric Mfg

Mfg
Tonotron—Hunhes Aircraft Co
Top Hats—Times Farsimile
Tophet—Driver Co Wilbur B
Tophiner—Technical Appliance
Top Master—Calcon Mfg Co
Top Tainers—Birtcher Corp
Torbal—Torsion Balance Co
Toroyd—Universal Mfg
Torque Watch—Waters Mfg Inc
Torsynator—Air. Magine Metars
Torsynator—Air. Magine Metars
Torsynator—Air. Magine Metars Torsynator—Air-Marine Motors
Totelite—Parker Metal Goods
T P Melody Mic—Audio Equip

Co
Trailertenna—Clear Beam TV
Antenna Corp
Trak—CGS Labs
Trancell—Johns-Manville
Translal—Johns-Manville
Translal—Johns-Manville
Translal—Johns-Manville
Translal—Johns-Manville
Transamp—Electronic Research
Trans-citer—Multi Products Co
Transdyne—Remler Co
Transdyne—Remler Co
Translaler—Pye Communications
Trans-Hoizon—Kennedy & Co
Transi-Mag—Magnetic Amplifiers
Transi-Mag—Magnetic Amplifiers
Transi-Mag—Magnetic Amplifiers
Transi-Pak—Bendix Red Bank
TransistAR—Mallinckrodt Chem
Works Co

Transistometer-Durson Co Transiste—Johns-Manville Transluctance—Remler Co Transmag—Calif Magnetic Control

Translutance—Remier Co
Transmay—Calif Magnetic Control
Corp
Transpac—Electronic Research
Trapper—Technical Appliance
Trav-Electric—Terado Co
Travertone—Armstrony Cork
Traxcavator—Caterpillar Tractor
tRco—Richardson Co
Treasure Chest—Jensen Mfg Co
Treasure Chest—Jensen Mfg Co
Treasure Chest—Jensen Mfg Co
Treinchlay—General Cable
Trianch—Sieler Desinn Products
Trialhire—Mechaneers Inc
Trianch—Jensen Mfg Co
Triclene—DuPont de Nemours &
Co E I
Tri-Flux—Redmond Co
Trign-R-Heat—Wall Mfg Co
Trigney—Scaico Controls
Trinseel—Tri-Point Plastics
Tri-O-Matic—V-M Corp
Tri-Ind-X—Triplett & Barton
Tri-Indax—Sanders Associates
Tri-Piex—Jensen Mfg Co
Trinit-Piate—Sanders Associates
Tri-Piex—Jensen Mfg Co
Triplex—Jensen Mfg Co
Tru-Match—Quam-Nichols Co
Tru-Match—Quam-Nichols Co
Tru-Match—Quam-Nichols Co
Tru-Stat—Peerless Photo Prod
Tru-Vac—Scovill Mfg
Tru Stat—Peerless Photo Prod
Tru-Vac—Scovil Mfg
Tru-Vac—Continental Electronics
Trutoro—Wind Turbine Co
Type-Triple Heatics
Tuboshms—Muter Co
Tube Master—Precision Apparatus
Tube-Br.Cam—Centralah Tubeohms—Muter Co
Tube Master—Precision Apparatus
Tube-R-Cap—Centralah
Tufcote—DuPont de Nemours
Tunetane—Miller Electronics
Turbistat—Baird-Atomic Inc Turbistate—Baird-Atomic Inc
Turbistate—Baird-Atomic Inc
Turbo—Brand & Co Wm
Turbonles—Brand & Co Wm
Turbonles—Brand & Co Wm
Turbosles—Brand & Co Wm
Turbosles—Brand & Co Wm
Turbosles—Brand & Co Wm
Turbotemp—Brand & Co Wm
Turbotenm—Brand & Co Wm
Turbotherm—Brand & Co Wm
Turbotuf—Brand & Co Wm
Turbotuf—Brand & Co Wm
Turbo Turbose
Turbo Turbies—Brand & Co Wm
Turbo Turbies—Brand & Co Wm
Turbo Turbies—Brand & Co Wm
Turbosone—Brand & Co Wm
Turbosone—Brand & Co Wm
Tv Duette—Jensen Mfg Co
Twin—Bogen Co David
Twin-Lever—Shure Bros
Tymise—Dry—Pyramid Elec
Tynex—DuPont de Nemours
Tyniswitch—Detroit Controls
Ty-Plv—Marbon Chem
Typotron—Hughes Aircraft Co

UAP—United Aircraft Prod U-Ask-It—Electronic Eng'g U-Line—Illumitronic Eng'g Ultra Linear—Acro Products UltraMet—Cannon-Muskegon C Ultramicrowave—DeMornay-

Bonardi Ultra-Telecon—Teletenna Co Ultratube—Plastoid Corp Ultra-Viscoson—Bendix Cincin-nati

Unax—Jensen Mfg Co
Unbrako—Standard Pressed Steel
Une Cap—United Flectronic Mfg
Uni-Cast—Redmond Co
Uniclosed—U S Electrical Motors
Uni-Cast—Alpha Metals Inc
Unidial—Chicago Industrial Inst
Unidiyne—Shure Bros
Unievel—Reflectone Corp
Uniline—Cascade Research Corp
Unimagic—Pentron Corp
Unimagic—Pentron Corp
Unimation—Devel Research Co
Uniplug—Applegate & Co C J Inimation—Devel Research Co
Uniplug—Anplegate & Co C J
Unipoint—Shure Bros
Unipoise—Pickering & Co
Ilnipole—Andrew Corn
Unipoise—Pickering & Co
Ilnipole—Andrew Corn
Uniprene—General Cable Corp
Uniren—Universal Electronics
Uniring—Burndy Corp
Uniscal—Johns-Manville
Unisorb—Felters Co
Uniterm—Cook Electric Co
Unit-Ized Tv—Setchell-Carlson
Unitone—Duotone Co
UniVac—Remington Rand Univac
Universal—K-W Eng'g Works

Universal—Mueller Electric Universal TV Zoomar—Zoomar

Universal TV Zoomar—Zoon
Inc
USD—U S Dynamics Corp
USE—U S Electronics Corp
Useco—Litton Industries
USG—U S Graphite Co
Us-kon—U S Rubber Co
Utiliscope—Diamond Power
Utilivue—Diamond Power
Utone—Utah Radio Prods

Vac-Air—Ingersoll-Rand Co Vaf-Brooks—Brooks Rotameter Vagabond—Int'l Research Assoc Val 90—Valverde Labs Valiant—Johnson Co E F Valvesal—Richardson Co Vam—Video Accessory Mfg Van de Graaff—High Voltage

Eng'g Vaporite—Bergen Wire Rope Vaporlux—Luxor Lighting Pro Var-Area—Cinematic Develop-

Var-Area—Cinematic Developments
Varblok—Deutschmann Corp Tobe
Varec—Vapor Recovery Systems
Variac—General Radio Co
Varicell—Superior Electric
Vari-Chokes—Supcrex Electronics
Varidrive—U S Elect Motors
Vari-Flex—Hamner Electronics
Vari-Ohm—Norden-Ketay
Vari-Ply—Cons Resistance Co
Vari-Sweep—Kay Electric Co
Vari-Sweep—Kay Electric Co
Vari-Sweep—Kay Electric Co
Vari-Swein—Norden-Ketay
Vari-Ply—Cons Resistance Co
Vari-Swein—Norden-Ketay
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Vary Tape—Audiomation
Vary Tape—Audiomation
Vari-Ply—Vari Vasco—Mitchell Industries
Vawmeter—Fluke Mfg Co John
Vcon—Carbide & Carbon

Chemicals
Veco—Victory Eng'g
Vectorlyzer—Advance Electronics Lab

Lab Vectrohm—Vectron Inc Vectromatic—Vectron Inc Vectronic—Vectron Inc Vee-Beam—JFD Mfg Co Vectronic—Vectron Inc
Vee-Beam—JFD Mfg Co
Vee-D-X—LaPointe Inc
Velac—Union Switch & Signal
Velco—Virginia Electronics
Ventilaire—Electric Trading
Venies—JFD Mfg Co
Veritell—West Instrument Corp
Vernietlem—Modern Lab Equip
Verni-Pot—Research Instrument
Vernistat—Perkin-Elmer Corp
Versa-Dial—Standard Gage
Versa-Mil—Dumore Co
Versatol—Da-Lite Screen
Versatol—Da-Lite Screen
Versta—Gould-Nat'l Batteries
Veth—Gould-Nat'l Batteries
VHS—Assembly Products
Veth—Sassembly Products
Veth—Assembly Products
Veth—Assembly Products
Vibratest—Assoc Research
Vibratran—Edko Electronics
Eng'g
Vibrameter—Televico Corp

Eng\*g Vibrometer—Televisa Carn

Engrg
Vibrometer—Televiso Corp
Vibron—Central Electronics Mfi
Vibrotron—BJ Electronic Div
Borg Warner Corp
Vic—United Transformer
Vico—Video Industries
Vicon—Hancock Electronics
Viscol—Enthoven Solders
Victoria—Fretco Inc
Vidigage—Branson Instruments
Viewpak—Benson-Lehner Corp
Viking—Jensen Mfi Co
Viking—Jensen Mfi Co
Viking—Jensen Co E F
Vinaçex—Apex Coated Fabrics
Vinower—Radiart Corp
Viscorder—Heiland Div
Honeywell

Visicorder—Heiland Div
Honeywell
Visi-Map—Magnecessories
Visutac—Boulin Instrument
Vitresil—Thermal American
Fused Quartz Co
Vitronbond—Atlas Mineral Prods
Vitroplast—Atlas Mineral Prods
Vitroplast—Atlas Mineral Prods
Vitroplast—Catlas Mineral Prods
Vitroplast—Atlas Mineral Prods
Vitroplast—Atlas Mineral Prods
Vitroplast—Catlas Mineral Prods
Vitrop America

Voice-Master-Magnetic Recordvoice-Master—Magnetic Recording Ind
Voice of Music—V-M Corp
Voice of the Theatre—Altec
Lansing Corp
Voicon—Radio Frequency Labs Vol-Flex—Voltube Corp Volseal—Johns-Manville Voltbox—Superior Electric

—Electro-Physics Valter-Volt-Ohmatic—Bergen Labs Volt-Ohmatic—Bergen Labs Voltohymst—Radio Corp of Amer Voltverter—Quantum Electronics Inc Inc Vorlac—Vorac Co Vo-Tron—Vokar Corp Vu-Grach—Beseler Co Charles Vulcoid—Continental-Diamond Fibre
Vul-Cot—Nat'l Vulcanized Fibre
Vu Magnemite—Amplifier Corp of America

W

Wac-Winder Aircraft Corp of Wac—Winder Aircrait Co., Fla
Waco—Calcon Mfg Co
Wac Tac—WacLine Inc
Wahlquiet—Nilson Electrical Lab
Walco—Electrovax Co
Walden—Stevens Walden
Wales-Way—Wales-Strippit
Walkierhone—Pye Telecommunications cations
Walkie-Recordall-Miles Repro-

Walter-Recordali—Miles Repriducer Co
Walton—Abbeon Suprly
Ware 8 Ball—Ward Products
Warner Red Cap—Warner Vel
Jator

warner Red Cap—Warner Ventilator
Warrenex—Warren Wire Co
Warrenite—Warren Wire Co
Waterwite—Bache & Co Semon
Watterson—Davis & Co J W
Waytrol—Jeffrey Mfg Co
Weathermaker—Carrier Corp
Webb Wire—Carpenter Steel Co
Web-Whip—Webster Mfg Co
Web-Whip—Webster Mfg Co
Web-Mip—Webster Mfg Co
Web-Mip—Webster Mfg Co
Welch Allyn—Allyn Inc Welch
Weldrawn—Superior Tube
Weldwood—U S Plywood
Weldrawn—Superior Tube
Weldwood—U S Plywood
Welmeg—Welwyn Int'!
Welmet—Welwyn Int'!
Welmet—Welwyn Int'!
Welmet—Westfeld Metal Prods
Wesso—West Coast Electronics
Wesgo—Western Gold &
Platinum
Westach—Westberg Mfg

Westo—Western Goid of Platinum
Westach—Westberg Mfg West-car—San Fernando Electric Whale—Forsberg Mfg Co Whipload—Johnson Co E F Whirlsint—Polymer Corp Whitney-Jensen—Whitney Metal Tool
Whiz-Saw—Forsberg Mfg Co Wicoa—Wire Co of Amer Wide-Range—Affton Industries Wide Strip—Bristol Co Wilkor—Aerovox Corp Winco—Wincharger Corp Win-Tronix—Winston Electronics Wire-Less-Com—Simpson Mfg Co Mark

Wirelessfone-Simpson Mfg Co Wireless-Talk—Simpson Mfg Co

Wireless-Talk—Simpson Mfg Co Mark
Wirenut—Ideal Industries
Wirenut—Ohmite Mfg Co
Wissh—Workman TV Inc
Wissh-Jet—Workman TV Inc
Woslke—Gary Wells Co
Wonderod—Columbia Products
Wood-Rav—Woodwelding Inc
Wood-Welder—Cavitron Electron
Oscillator
Worometer—Stewart Instrument
Wycon—Wyrenherk & Staff

Wyco-Wyzenbeck & Staff

X Xela—Klein & Sons Mathias Xelon—Times Wire & Cable Xtradur—Hexacon Elec Co X-R-M—X-Ray Mfg Corp of Amer X-Var—Fidelity Chemical

Y—Wybar Electronics Yagi-Helix—JFD Mfg Co

Z Zachalloy-Precision Electro-Zachalloy—Precision Electro-flating Zee-Beam—Welco Mfg Co Zee-X—Welco Mfn Co Zephr—Trio Mfn Co Zephyr-Mite—Trio Mfg Co Zephyr-Mite—Trio Mfg Co Zephyr-Moyal—Trio Mfg Co Zephyr Royal—Trio Mfg Co Zephyr Royal—Trio Mfg Co Zero-Max—Revco Inc Pero-Max—Revco Inc
Zim—Permo Inc
Zincgrip—Armco Steel Corp
Zinktron—Constad Labs
ZIP—JFD Mfg Co
Zipohms—Muter Co
Zircrtubinn—Plummer Co
Walter A Zircertubinn—Pluminer Co Walter A Zip-Strar—Western Coil & Elec Zirmet—Foote Mineral Co Zoomar 16—Zoomar Inc Z T Sealer—Pluminer Co Walter A Zynlo—Mannaßux Corp Zytel—DuPont de Nemours

### Alphabetical Listing of Manufacturers

#### WITH THE EXCLUSIVE

### LOCALIZER INDEX

CLEVELAND 15-The Wagner-Green Campany

A listing of the names and addresses of manufacturers in the electronic and allied industries. In the LOCALIZER INDEX, many manufacturers have listed home office telephone numbers, executive personnel, brand names, products, branch and regional offices as well as local reps. The LOCALIZER INDEX provides you with the shortest means of contacting a manufacturer. Symbols show type of representation: BO signifies branch off: D distributor: DS distributor sales; GV government sales; IDS industrial & distributor sales; R rep; SE sales engineer.

AA Metal Products Inc 154 Elliot St Brattleboro Vt AL 4-4333 AA Metal Products Inc 154 Elliot St Brattleboro Vt AL 4-4333
Abalon Precision Mfg Corp 540 Casanova St New York 59 N Y LU 9-5682
Abbeon Supply Co 179-15 Jamaica Ave Jamaica 32 N Y AX 7-5600
Abrams Instrument Corp 606 E Shiawassee St Lansing I Mich IV 4-9441
Accurate Electronics Corp 169 S Abbe Rd W Elyria Ohio 67-925 Onto 67-925
Accurate Eng'g Co 2095 Blue Island Ave Chicago 8
III MO 6-5600
Accurate Insulated Wire Corp 25 Fox St New Haven
1 Conn ST 7-2194
Accurate Mfg Co 44 Hepworth PI Garfield N J GR 3-Ace Coil & Electronics Co 916 Lincoln Hwy Metuchen N J LI 8-3580 Ace Electronics Associates 99 Dover St Somerville 44 Ace Electronics Associates 99 Dover St Somerville 44
Mass SM 6-5130
Ace Eng'g & Machine Co 3644 N Lawrence St Philadelphia 40 Pa GA 6-9800
Ace Plastic Co 91-30 VanWyck Expwy Jamaica 35
N Y JA 3-5509 A C Electronics Div General Motors Corp Toledo Ohio Acheson Colloids Co 1635 Washington Ave Port Huron Mich Y!! 4-4171 Ackerman Engravers 458 Broadway New York 13 N Y BA 7-1479 Acme Electric Corp Water St Cuba NY CU4 III MO 6-1834

Accurate Paper Tube Co 805 N Peoria St Chicago 22 III CH 3-2166 Accurate Spring Mfg Co 3811 W Lake St Chicago 24 III VA 6-5900 Spring Mfg Co 78 W Houston St New York 12 ACF Industries Nuclear Prods-Erco Div 48 Lafayette St Riverdale Md WA 7-4444 ACF Electronics Co Div ACF Industries 800 N Pitt St Alexandria Va KI 8-4400 Ackerman-Gould Co 92 Bleecker St New York 12 N Y AL 4-2538

Acme Battery Corp 200 Henry St Stamford Conn
DA 4-4125 Acme Electric Heating Co 1217 Washington St Boston 18 Mass HA 6-1569 Acme Mfg & Gasket Co 738 N 41 St Philadelphia 4 Pa EV 6-8622 Scientific Co 1450 W Randolph St Chicago 7 cme Wire Co 1255 Dixwell Ave New Haven 14 Conn LO 2-2171 Acme Wire Machine Co 232 E 3 St New York 9 N Y OR 7-8290 Acoustica Associates Shore Rd Glenwood Landing L I N Y OR 6-0730 ro Div Robertshaw-Fulton Controls Co Box 449 Columbus 16 Ohio CL 3-8531 Acromark Co 443 Morrell St Elizabeth 4 N J EL 2-6500 Acro Products Co 369 Shurs Lane Philadelphia 28 Pa I'. 3-5969 Acro Tool & Die Works 4554 Broadway Chicago 40 III LO 1-1807 Acton Laboratories 533 Main St Acton Mass CO 3-7756 C Transformer Corp 89 Madison St Newark 5 N J MI 2-7574 Acus Pictures Corp 165 W 46 St New York 36 N Y PL 7-2265 Adams Lighting Inc 10 1 St Pelham N Y PE 8-4403 Adams & Westlake Co 1025 N Michigan Elkhart Ind 2-0550 Adlake Mercury Relays and Cantrols BOSTON II-Lea C Pelkus & Co 683 Atlantic Avenue

1935 Euclid Avenue
HOUSTON 3—The William E Brice Campany 303 Bastrap Avenue
LOS ANGELES 22—The A W Nash Ca 2112
South Atlantic Blvd
NEW YORK 6—E W Rawland Associates 110
Washington Street
PHILADELPHIA 44—W Henry Cardray 18 West Chelten Avenue
PITTSBURGH 22—Russell F Clark Campany
Clark Building
ST LOUIS 5—Wells-White Campany 301 Cannar
Bldg 6625 Delmar Baulevard
BURLINGAME CALIF—The TR Rauth Campany 1209 Capuchino
SEATTLE I—C B Parsans & Campany 3028 First SYRACUSE 4-Wally B Swank 2310 Bellevue Adcola Products Ltd Gauden Rd Clapham High St London S W 4 England Addressograph-Multigraph Corp 1200 Babbitt Rd Addressograph-Multigraph Corg 1200 Babbitt Rd Cleveland 17 Ohio RE 1-8900
Adel Precision Products Div General Metals Corp 1444 Washington Ave Huntington 4 W Va Addre Electronics Inc 1 LeFevre Lane Mew Rochelle N Y NE 6-1620
Admiral Corp 3800 W Cortland St Chicago 47 III SP 2-0100 SP 2-0100
Admittance Namco Corp Marine St Farmingdale L I
N Y CH 9-8080
Advance Electronics Co 8510 North End Ave Oak
Park 37 Mich LI 6-0248
Advance Electronics Lab Inc 249 Terhune Ave Passaic
N J GR 2-5622 Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass UN 4-6800 Advance Instrument Corp 1709 F St Belmar N. J MU 1-3800 MO 1-3600 Advanced Electronics Inc 94 Silas Deane Hwy Rocky Hill 9 Conn JA 9-6882 Advanced Instruments Inc 21 Oakcrest Rd Needham 92 Mass NE 3-2325 Advanced Products Co 59 Broadway North Haven Conn CE 9-1664 Advanced Vacuum Products Inc 430 Fairfield Ave Stamford Conn DAvis 4-2148 Aemco Inc 10 State St Mankato Minn 5153 Aerocoil Inc 24 Cliff St Jersey City 6 N J OL 3-7446 Aero Electronics Co 1512 N Wells St Chicago 10 III WH 3-0401 Acroflex Labs 34-06 Skillman Ave Long Island City 1 N Y 2T 4-7000 Aero Instrument Co 11423 Vanowen St N Hollywood Calif ST 7-5433 Acrojet-General Corp 6352 N Irwindale Ave Azusa Calif CU 3-6111 Aerolite Electronics Corp 507 26 St Union City N J UN 3-2955 Aerolux Light Corp 653 11 Ave New York 36 N Y CI 6-5324 Aeronautical Comm Equip Co 3090 Douglas Rd Miami 33 Fla

Aerovox Corp 740 Belleville Ave New Bedford Mass WY 4-9661
Aerovox Corp Crowley Div 1 Central Ave W Orange N J OR 3-7660
Aetna Felt Co 204 Centre St New York 13 N Y CA 6-6676
Affiliated Photographic Co 21 W 45 St New York 36
N Y JU 2-0522-3 N Y JU 2-05-22-3 Affton Industries 406 St Louis Ave Valley Park Mo VA 5-2132 A'G'A Div Elastic Stop Nut Corp 1027 Newark Ave Elizabeth 3 N J EL 2-2900 Ainslie Corp 312 Quincy Ave Quincy 69 Mass GR 2-8855 8855
Airborne Accessories Corp 1414 Chestnut Ave Hillside 5 N J WA 6-1700
Airborne Electronics Co 6813 Troost Ave N Hollywood Calif PO 5-1351
Airborne Instruments Lab Modiac Div 864 Franklin Ave Thornwood N Y RO 9-5656
Aircom Inc 1209 E Grand St Elizabeth N J EL 3-0633
Air Controls Inc 3230 Controls Inc 3230 Air Controls Inc 3230 Cont 0633
Air Controls Inc 2310 Superior Ave Cleveland 14
Ohio CH 1-4049
Aircraft & Electronic Specialties 22 S Green St
Brownsburg Ind UL 2-2218
Aircraft Radio Corp Boonton N J DE 4-1800
Airdraulics Eng'g Inc 250 Park Ave New York 17
N Y N Y
Aireco Inc 2323 2 Ave Schenectady 3 N Y EX 3-3673
Air & Refrigeration Corp 439 Madison Ave New York
22 N Y Pl. 1-0660
AiResearch Mfg Co Div Garrett Corp 9851 Sepulveda
Blvd Los Angeles 45 Calif OR 2-0131
Airflo Instrument Co 53 Addison Rd Glastonbury
Conn ME 3-9455
Airflyte Electronics Co 535 Avenue A Bayonne N J
HE 6-2230
Air-Marine Motors Inc 369 Bayview Ave Amityville
N Y AM 4-3700
Airmatic Valve Inc 7314 Associate Ave Cleveland 9
Ohio WO 1-5320
Air-Maze Corp 25000 Miles Rd Cleveland 28 Ohio Air-Maze Corg 25000 Miles Rd Cleveland 28 Ohio MO 2-8000 Airmec Ltd High Wycombe Buckinghamshire England Airpax Products Co Middle River Baltimore 2 Md Airpax Products Co Middle River Baltimore 2 Md MU 6-9100

Air Reduction Sales Co Div Air Reduction Co 150 E 42 St New York 17 N Y MU 2-6700

Air Transcort Mfg Co 1114 N Sycamore Ave Los Angeles 38 Calif HO 7-5175

Airtron Inc 1101 W Elizabeth Ave Linden N J HU 6-1000 Airtron Inc 1101 W Elizabeth Ave Linden N J HU 6-1000
Airtronix Develorment Corp 4902 Church Ave Brooklyn 3 N Y DI 5-3435
Ajax Condenser Co 932 W Wrightwood Ave Chicago 14
Ill GR 7-0660
A-K Mfg Co 115 S Northwest Hwy Barrington II! 58
Akron Rubber Co 53 Warren St New York 7 N Y DI 9-3636
Aladdin Electronics 100 Blanton Ave Nashville 10
Tenn CH 2-3411
Alcar Instruments Inc 17 Industrial Ave Little Ferry N 'H JI 9-3049
Alconox Inc 853 Broadway New York 3 N Y GR 3-Alconox Inc 853 Broadway New York 3 N Y GR 3-Alden Electronic & Impulse Recording Equip Co P 0 Box 125 Westboro Mass 467 Alford Mfg Cc 299 Atlantic Ave Boston 10 Mass HA 6-2150 Alfred Electronics 897 Commercial St Palo Alto Calif DA 4-4368

All American Eng'g Co DuPont Airport Box USS 2668

Wilmington 5 Dela WY 4-0951 Il American Tool & Mfg Co 8027 Lawndale Ave Skokie III OR 3-7084 Allard Instrument Corp 146 E 2 St Mineola L I N Y PI 6-5895

Aerovox Corp Pacific Coast Div 2724 S Peck Rd Monrovia Calif RY 1-5621 Indented listings are advertisements

Aeronautical Electric Co 5656 Northwest Hwy Chicago

Aeronautical Electronics Inc P O Box 6527 Raleigh

Aeronautical Electronics Inc P O Box 6527 Raleigh N C TE 4-6209 Aerophysics Development Corp Sub Curtiss-Wright Corp P O Box 689 Santa Barbara Calif WO 2-9135 Aero Research Instrument Co 315 N Aberdeen St Chi-cago 7 III TA 9-6400

Aerotec Corp Pemberwick Rd Greenwich Conn JE 1-8403

Aerotest Laboratories 129-11 18 Ave College Point 56 N Y IN 1-7272

Aerotron Surply Co 8504 S Normandie Ave Los Angeles 44 Calif PL 3-3453

30 III SP 4-5200

CHICAGO 2—The Adams & Westlake Ca 319 W Ontaria St

All Channel Products Corp 47-39 49 St Woodside 77 N Y EX 2-1336 Allegany Instrument Co 1091 Wills Mountain Cum-berland Md PA 4-1200 Allegheny Ludlum Steel Corp Oliver Bldg Pittsburgh 22 Pa Co 1-5300 Allen-Bradley Co 136 W Greenfield Ave Milwaukee 4 Wisc OR 1-2000 Allen Electronics Corp 92 Branch St Pontiac Mich FE 2-6662 Allen Mfg Co 133 Sheldon St Hartford 2 Conn JA 2-6131 Allen Organ Co Locust St Macungie Pa WO 5-9831

Allen Organ Co Locust St Macungie Pa WO 5-9831 Alliance Mfg Co Lake Park Blvd Alliance Ohio 1-5361 Allied Allegri Co 141 River Rd Nutley 10 N J NU 2-3910

Allied Allegri Co 141 River Rd Nutley 10 N J NU 2-3910
2-3910
Allied Control Co 2 East End Ave New York 21 N Y BU 8-7403
Allied Electronic Equip Co 868 San Mateo Ave San Bruno Calif JU 8-4042
Allied Engrg & Production Corp 2421 Blanding Ave Alameda Calif LA 3-6556
Allied Engraving & Stamping Co 17 Elm St Buffalo 3 N Y CL-3725
Allied Fabricating Corp 1538 N Clybourn Ave Chicago 10 III MO 4-0876
Allied Industries Inc 2500 Woodland Ave Louisville 10 Ky SP 6-4649
Allied Radio Corp 100 N Western Ave Chicago 80 III HA 1-6800
Allied Recording Products Co 32-32 Greenpoint Ave Long Island City 1 N Y ST 4-2318
Allied Resinous Products Inc Whitney Rd & Clark St Conneaut Ohio 91-001
Allies' Products Corp P O Box 188 Kendall Station Miami Fla PE 7-4431
Allis-Chalmers Mfg Co Milwaukee 1 Wisc SP 4-3600
Allis Co Louis 427 E Stewart St Milwaukee 1 Wisc HU 1-6000
Allison Labs Inc 14185 Skyline Dr La Puente Calif OX 4-4056
Allmetal Screw Products Co 821 Stewart Ave Garden City N Y PJ 1-1200

OX 4-4956
Allmetal Screw Products Co 821 Stewart Ave Garden
City N Y PI 1-1200
Alloy Metalsmiths Inc 89 Commerce Rd Cedar Groove
N J CE 9-2424
All Star Products Inc Squire Ave Defiance Ohio
2-1065

2-1065
Ali-State Welding Alloys Co 249 Ferris Ave White Plains N Y WH 8-4646
All-Tronics Inc 45 Bond St Westbury N Y ED 3-3090
Allyn Inc Welch Skaneteies Falls N Y 882
Aloe Scientific 5655 Kingsbury Blvd St Louis 12 Mo
Alonge Products Inc 163 W 23 St New York 11 N Y WA 4-2815

Alpar Mfg Corp 2910 Spring St Redwood City Calif EM 8-4701

Alphaduct Wire & Cable Co 25 Van Dyke Ave New Brunswick N J CH 9-8090

Alpha Erection Corp 210 E Main St W Branch

Alpha Erection Corp 210 E Main St W Branch
Iowa 220
Alpha Instrument Co 43 Hempstead St New London
Conn GI 2-2141
Alpha Metals Inc 56 Water St Jersey City 4 N J
HE 4-6778
Alrha Molykote Corp 65 Harvard Ave Stamford Conn
FI 8-3724

F1 8-3/24
Alpha Wire Corp 200 Varick St New York 14 N Y
AL 5-5400
Alprodoc Inc P O Box 4974 Memphis Tenn JA 7-7534
Altec Lansing Corp 1515 S Manchester Ave Anaheim
Calif PR 4-2900
Alto Scientific Co 855 Commercial St Palo Alto Calif
DA 4-4733

DA 4-4/33 Aluminum Co of America Alcoa Bldg Pittsburgh 19 Pa AT 1-4545 Alvo Nut & Bolt Co 1601 Grande Vista Ave Los Angeles 23 Calif AN 2-5131 Alwac Corp 13040 S Cerise Hawthorne Calif OR 8-7108

7108
Ambroid Co Box 30 Weymouth 88 Mass ED 5-6658
Amco Eng Co 7333 W Ainslie St Chicago 31 III
UN 7-8500
Ameco 2949 W Osborn Rd Phoenix Ariz. AL 4-5511
Amelco Inc 2040 Colo Ave Santa Monica Calif
Amerac Inc 116 Tonsfield Rd Wenham Mass Ham 730
Ameray Corp Route 46 Kenvil N J F0 6-4103
Amercoat Corp 4809 Firestone Blvd South Gate Calif
LD 4-2581

Ameray Corp Route 46 Kenvil N J F0 6-4100
Amercoat Corp 4809 Firestone Blvd South Gate Calif LO 4-2581
American Air Filter Co 215 Central Ave Louisville 8 Ky MF 7-3611
American Coil Inc 21-28 45 Rd Long Island City 1 N Y RA 9-0744
American Communications Corp 280 Broadway New York 17 N Y RE 2-0319
American Condenser Corp 4410 N Ravenswood Ave Chicago 40 III LO 1-1386
American Decalcomania Co 4334 5 Ave Chicago 24 III KE 3-8144
American District Telegraph Co 155 6 Ave New York 13 N Y AL 5-0200
American Electric Cable Co 181 Appleton St Holyoke Mass JE 9-9893
American Electric Cable Co 181 Appleton St Holyoke Mass JE 9-9893
American Electric Cable Co 181 Appleton St Holyoke Mass JE 9-9893
American Electric Cable Co 181 Appleton St Holyoke Mass JE 9-9893
American Electrical Healer Co 6110 Cass Ave Detroit 2 Mich TR 5-2505
American Electronics Laboratories 121 N 7th St Philadelphia 6 Pa WA 5-8780
American Electronics Local Col 180 Bryant Ave New York 59 N Y DA 9-4815
American Electronics Inc Instrument Div 9503 W Jefferson Blvd Culver City Calif TE 0-5581

American Electronics Inc 655 W Washington Blvd Los Angeles 15 Calif KI 9-7671 American Elite Inc 7 Park Ave New York 16 N Y MU 3-8490 American Gas Furnace Co 140 Spring St Elizabeth 1 N J EL 2-2120

erican Gyro Corp 3030 Nebraska Ave Santa Monica

American Hinge Corp 206 Wallabout St Brooklyn 6

American Hinge Corp 206 Wallabout St Brooklyn 6 N Y UL 5-0680 American Hoist & Derrick Co 63 S Robert St St Paul 1 Minn CA 2-0541 American Instrument Co 8030 Georgia Ave Silver Spring Md JU 9-1727 American Insulator Corp New Freedom Pa GL 4211 American Lava Corp Chattanooga 5 Tenn AM 5-3411 American Leonic Mfg Co 3001 Walnut St Philadelphia 4 Pa BA 2-4452

4 Pa BA 2-4452
American Machine & Foundry Co Electronics Div 1085
Commonwealth Ave Boston 15 Mars AL 4-4234
American Machine & Foundry Co Defense Products
Group 1101 N Royal St Alexandria Va KI 9-9110
American Metal Co 61 Broadway New York 6 N Y
BO 9-1800

Metal Co 9-1800

American Metal Co 61 Broadway New York 6 N Y BO 9-1800

American Metals Corp 40 Haddon Ave Camden 3 N J WO 4-2940

American Mica Insulation Co 235 Parker Ave Manasquan N J CA 3-3100

American Mica Radio Corp 235 Parker Ave Manasquan N J CA 3-3100

American Mica Radio Corp 235 Parker Ave Manasquan N J CA 3-3100

American Microwave Corp 11754 Vose St N Hollywood Calif PO 5-9041

American Molded Products Co 2727 W Chicago Ave Chicago 22 III AR 6-3235

American Optical Co Instrument Div Box A Buffalo 15 N Y F1-4000

American Oxygen Service Corp 60C Essex St Harrison N J HU 3-0100

American Photocopy Equip Co 1920 W Peterson Ave Chicago 26 III RO 1-1600

American Photocopy Equip Co 1920 W Peterson Ave Chicago 26 III RO 1-1600

American Piatinum Works 231 N J R R Ave Newark 5 N J MA 2-8035

American Printed Circuits Co 104 Forrest St Metuchen N J LI 8-5777

American Products Mfg Co 8127 Oleander St New Orleans 18 La GA-1501

American Radar Components Inc Rt 10 Whippany N J TU 7-1840

American Research Corp Route 6 Farmington Conn OR 7-2693

American Research Corp Route 6 Farmington Conn OR 7-2693

OR 7-2693
American Research & Mfg Corp 920 Halpine Ave Rockville Md HA 7-7116
American Scientific Co 1295 Grand Concourse New York 52 N Y
American Scientific Development 336 S Main St Fort Atkinson Wisc JO 3-4865
American Screw Co Willimantic Conn HA 3-6331
American Screw Co Unilimantic Conn HA 3-6331
American Scient Co 103 Woodbine St Hartford 6 Conn JA 2-1188
American Silver Co 3607 Prince St Flushing 54 N Y FL 3-8012

Conn JA 2-1188

American Silver Co 3607 Prince St Flushing 54 N Y FL 3-8012

American Solder & Flux Co 19 & Willard Sts Philadelphia 40 Pa BA 6-1800

American Sound Products Inc 404 S Wells St Chicago 7 III WA 2-4050

American Speedlight Corn 63-01 Metropolitan Ave Middle Village 79 N Y EV 1-2000

American Standard Atomic Energy Div 1682 Broadway Redwood City Calf EM 9-0311

American Super-Temperatures Wires Inc West Canal St Wincoski Vt BU 2-9636

American Television & Radio Co 300 E 4 St St Paul 1 Minn CA 2-3791

American Thermo Electric Co 7269 Santa Monica Blvd Los Angeles 46 Calif HO 4-1632

American Time Products Inc 580 5 Ave New York 36 N Y PL 7-1430

American Tower Co RFD 2 Rox 29 Shelby Ohio 42481

American Tower Co RFD 2 Rox 29 Shelby Ohio 42481

American Transformer Co Div Standard Electronics 285 Emmett St Newark 5 N J

American Window Glass Co Farmers Bank Bldg Pittsburgh 22 Pa EX 1-1745

America O 685 Ramsey Ave Hillside N J MU 8-4500

Amplo Corp 4333 Ravenswood Ave Chicago 13 III BU 1-2727

AMI Inc 1500 Union Ave Grand Rapids 2 Mich

BU 1-2727
AMI Inc 1500 Union Ave Grand Rapids 2 Mich CH 3-3633
AMP Inc Chemical Dielectrics Div 155 Park St Elizabethtown Pa 7-1105
AMP Inc Harrisburn Pa CE 4-0101
Amperex Electronic Corn 230 Duffy Ave Hicksville L I N Y WE 1-6200

Amperite Corp 934 Charter St Redwood City Calif

Amphenol Electronics Corp 1830 So 54th Ave Chicago 50 III

O III
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Vice President-Engineering—Rodolfo M Soria
Vice President & Controller—John L Woods
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Valach
General Products Manager—C F Mikl
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Audio Devices Inc. 444 Madison Ave. New York 22
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Minn MI 6-1801
Automatic Electric Co 1033 W Van Buren St Chicago 7 III HA 1-4300
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Barrett Co Leon J P 0 Box 378 Worcester 1 Mass
PL 5-4306

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New York 6 N Y HA 2-7300
Barrett Varnish Co 1532 S 50 Court Cicero 50 III
BI 2-2462

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Beckman/Berkeley Div Beckman Instruments Inc 2200

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Beckman & Whittey 973 E San Carlos Ave San Carlos Calif LY 3-7824 Beck's Inc 298 E 5 St St Paul 1 Minn CA 4-6455 Beede Electrical Instrument Co Penacook N H PL 3-6362

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EA 3-2000

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Bendix Aviation Corp Foundries Div Teterboro N J Bendix Aviation Corp Cincinnati Div 3130 Wasson Rd

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B & K 7-9480 Blackburn Electronic Corp 55 W 7 St Wyoming Pa WY 1190

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Black & Decker Mfg Co E Penna Ave Towson 4 Md VA 3-4400
Black Light Corp of America 5114 Walnut Grove Ave San Gabriel Calif CU 3-3193
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Black Light Products Inc 53 W Jackson Blvd Chicago 4 III HA 7-8965
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B & M Electric Corp 838 4 Ave Brooklyn 32 NY HY 9-5945 Bodde Screen & Projector Co 11541 Bradley Ave San Fernando Calif EM 5-2551 Bodine Electric Co 2254 W Ohio St Chicago 12 III SE 3-6410 Bodnar Industries 238 Huguenot St New Rochelle NY NE 6-4654 Boehme Inc H O 915 Broadway New York 10 NY SP 7-2208 SP 7-2208
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Boesch Mfg Co 45 River St Danbury Conn PI 3-5571
Bogart Mfg Co 315 Seigel St Brooklyn 6 NY HY
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Bogen Co David P O Box 500 Paramus NJ DI 3-5700
Bogue Electric Mfg Co Iowa Ave Paterson 3 NJ LA
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Garden St Lawrence Mass MU 3-7121
Bolton Labs Inc W Main St Bolton Mass SP 9-2201
Bomac Labs Inc Salem Rd Beverly Mass WA 2-6030
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NJ M! 8-3838
Roomton Electronics Corp 328 Cond 2016 Roomton Electronics Corp 738 Speedwell Ave Marris Plains NJ JE 8-5110 Boonton Molding Ca 326 Myrtle Ave Boonton NJ DE 4-4400 DF 4-4400 Boonton Radio Corp Intervale Rd Boonton NJ DE 4-3200 Booth Co Arthur E 265 S Alexandria Ave Los Angeles 4 Calif DU 9-4863 Boots Aircraft Nut Corp Newton Turnpike Norwalk Conn Sorden Co Chemical Div Resinite Dept P 0 Box 1589 Santa Barbara Calif 3134 Borden Co Chemical Div 350 Madison Ave New York 17 NY MU 7-4100 17 NY MU 7-4100
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Borthig Co George C P 0 Box 115 E Rutherford NJ
WE 9-9260
Bosch Inc M Ten 80 Wheeler Ave Pleasantville NY
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Boston Insulated Wire & Cable Co 65 Bay St Dorchester 25 Mass CO 5-21.04
Boston Woven Hose & Rubher Co P 0 Box 1071
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Boulevard Recording Studio 25 E Jackson Blvd Chicago 4 III WE 9-7288
Boulin Instrument Corp 10 1 St Pelham NY PE 8-3066

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Brand & Co William 41 North St Willimantic Conn HA 3-6301
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NY MU 2-5844

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Rd St Laurent Quebec Canada ME 1-6781
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Cannon Co C F Springwater NY 531
Cannon Electric Co 3208 Humboldt St Los Angeles
31 Calif CA 5-1251
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Carnf Co Box 554 Brookhaven Miss 1998
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TENNESSEE-Memphis—IDS—AI E Engelman 3205 TENNESSEE-Memphis—IDS—AI E Engelman 3205
Crump Ave Glendale 8-6263
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Springs Riverside 7-5824
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Vancouver—IDS—D E McLennan 1624 W Redfern 7078

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Box 2098 Honolulu 5 TH Phone 265275

Central Coil Co 1720 N Luett St Indianapolis 22 Ind
ME 2-6344

Central Electronic Mfrs Inc Sub Nuclear Corn of
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Central Electronics Inc 1247 W Belmont Ave Chicago
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Central Porcelain Co 511 Railroad St Columbiana Ohio
IV 2-3313

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WL 3-5851
Cerro De Pasco Sales Corp 300 Park Ave New York
22 NY MU 8-8822
Certified Radio Labs 5507 13 Ave Brooklyn 19 NY
GE 8-8080 GE 8-8080 G Electronics Corp 305 Dallas St N E Albuquerque CG Electronics Corp 305 Dallas St N E Albuquerque New Mex 6-6121
CGS Laboratories Inc 391 Ludlow St Stamford Conn DA 4-9508
Chace Co W M 1600 Beard Ave Detroit 9 Mich VI 2-7400
Chance Vought Aircraft Inc Dallas Texas
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Chase Brass & Copper Co 236 Grand St Waterbury 20 Conn PL 6-9444
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Chassis Trak Inc 525 S Webster Ave Indianapolis 19 Ind FL 9-5407

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14 R I GE 4-1770
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VA 1-4121
Cherry Electrical Products Corp 1650 Deerfield Rd
Highland Park III ID 2-8182
Chesapeake Instrument Corp Shadyside Md UN 7-2151
Chester Cable Corp 1030 Ton St Chester NY CH-2221
Chester Morton Electronics Corp 10 St & Morton
Ave Chester Pa CH 3-8584
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Melrose Park III ES 9-1322
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Chicago Electronic Eng'n Co 3223 W Armitage Ave
Chicago Electronic Labs 1222 W Madison St Chicago
7 III TA 9-1818
Chicago Gasket Co 1271 W North Ave Chicago 22 III
HU 6-3060
Chicago Industrial Instrument Co 865 N Sangamon St
Chicago 22 III TA 9-0234 HU 6-3060
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Chicago Steel Furnace Co 9326 S Anthony Ave Chicago Telephone Supply Corp 1142 W Beardsley Ave Elkhart Ind 3-0310
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Christie Electric Corp 3410 W 67 St Los Angeles 43 Calif PL 3-2607
Chromatic TV Labs West Coast Devel Lab 1476 66 St Emeryville QL 8-3831
Chromatic TV Labs West Coast Devel Lab 1476 66 St Emeryville QL 8-3831
Chromatic TV Labs Uses 1501 Broadway New York 36 NY BR 9-8700
Chromium Corp of America P O Box 1229 Waterbury 20 Conn PL 4-3141
Chu Associates 634 Waverly St Framingham Mass TR 2-0006 Chu Associates 634 Waverly St Framingham Mass TR 2-0006
Churchill Lighting Coro 344 Franklin St Melrose 76
Mass ME 4-4700
Ciba Co Plastics Div Kimberton Pa WE 3-5886
Cinch Mfg Corp 1026 S Homan Ave Chicago 24 III
NE 2-2000
Cinch-Jones Sls Div Cinch Mfg 1026 S Homan Chicago III Nevada 2-2000
President—Lester W Torr
VP & Gen Mgr—E J Pool
VP Sales—S Pfannstiehl
VP & Dev Engr—S M Del Comp
Vice Pres—B. F. Butts
VP Finance—E L Hvale
Purch Agt—I A Hopkins
Adv Mgr—C W Nelson
Export Mgr—Carrington H Stone
Traffic Mgr—I A Hopkins
Sls Mgr—C W Nelson
Plostics Engr—G F Mangin
ATLANTA—Cortwright & Bean 3223 Cain's Hill
Place N W Cedar 7-2273
BOSTON—Ray Perron & Co 1870 Centre St
Fairview 3-1008
CHICAGO—B F Becker covers Wisc—P G Tomy
covers lowo-Minn
CLEVELAND—Scott & Steffen Inc. 1836 Fuclid Chu Associates 634 Waverly St Framingham Mass TR Fairview 3-1008
CHICAGO—B F Becker covers Wisc—P G Tomy covers lowo-Minn
CLEVELAND—Scott & Steffen Inc 1836 Euclid Ave TOwer 1-2626
DETROIT—Cinch-Jones Soles Div 2832 E Grand Blvd TRinity 3-9500
KALAMAZOO—Cinch-Jones Soles Div 5006
Loke Forest Dr Phone Fireside 5-5686
LOS ANGELES—Cinch-Jones Soles Div 1709 W Eighth St DUnkirk 8-9691
MEMPHIS—Cortwright & Bean 1336 Modison Ave Phone Broadway 5-1914
NEW YORK—J S Giompiccolo 475 Fifth Ave Murroy Hill 3-8529
PITTSBURGH—Office moved to Baltimore PHILADELPHIA—S K MacDonald Inc 1531
Spruce St Kingsley 5-1205
BALTIMORE—S K MacDonald Inc 3308
14th St N W Columbia 3938
HAMILTON ONT—Cinch-Jones Sales Div Gage Ave & Beach Rd Liberty 4-5791
Cincinnati Molding Co 2037 Florence Ave Cincinnati 6 Ohio WO 1-4380
Cincinnati Sub-Zero Products 3932 Reading Rd Cincinnati 29 Ohio PL 1-8810

2-5616

Cincinnati Time Recorder Co 1733 Central Ave Cincinnati 14 Ohio CH 1-1995
Cinema Eng'g Div Aerovox Corp 1100 Chestnut St Burbank Calif VI 9-5511
Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London S 5 26 England Hither Green 4600
Cinematic Developments 2125 32 Ave San Francisco 16 Calif MO 4-2435
Circon Component Co Santa Barbara Municipal Airport Goleta Calif WO 8-2011
Circuit Instruments Inc P 0 Box 1438 St Petersburg 1 Fla DI 2-8051
Cir-Pak Co 32-44 Francis Lewis Blvd Flushing 58 NY City Chemical Corp 132 W 22 St New York 11 NY WA 9-2723
Clairex Corp 50 W 26 St New York 10 NY WA Corp 50 W 26 St New York 10 NY WA Clairex 9-1668 Clarage Fan Co Kalamazoo Mich FI 9-1541 Clare & Co C P 3101 Pratt Blvd Chicago 45 III AM 2-7700 Claremont Tube Corp 36-02 35 Ave Long Island City 6 N Y
ark Controller Co 1146 E 152 St Cleveland 10 Ohio WL 1-2000 Clark Crystal Co 2 Farm Rd Marlboro Mass 1411 Clark Electronic Labs Box 165 Palm Springs Calif 8-3011 Clarostat Mfg Co Washington St Dover N H 975 Clary Corp 408 Junipero St San Gabriel Calif AT 7-6111 7-6111 Clauss Cutlery Co 223 Prospect St Fremont Ohio FE 2-7344 Clear Beam Antenna Corp 21341 Roscoe Bivd Canoga Park Calif DI 7-2255 Clearprint Paper Co 1482 67 St Emeryville Calif OL 2-4762 Clearprint Paper Co 1482 67 St Emeryville Calif OL 2-4762
Clearview Co 172 Stanton St New York 2 N Y OR 3-0758
Clegg Labs Div Clegg Inc Ridgedale Ave Morristown N J JE 8-7214
Cleveland Container Co 6201 Barberton Ave Cleveland 2 Ohio OL 1-4500
Cleveland Instrument Co 735 Carnegie Ave Cleveland 15 Ohio PR 1-7070
Cleveland Metal Srecialties Co 1783 E 21 St Cleveland 14 Ohio PR 1-4186
Cleveland Wire Cloth & Mfg Co 3573 E 78 St Cleveland 5 Ohio DI 1-1832
Clevite Harris Products Inc 6545 Carnegie Ave Cleveland 3 Ohio EN 1-3200
Clevite Transistor Products 241 Crescent St Waltham 54 Mass TW 4-9330
Clifton Precision Products Co Marole at Broadway Clifton Heights Pa MA 6-2101
Clippard Instrument Lab 7374 Colerain Rd Cincinnati 24 Ohio 24 Ohio Cloudh-Brendle Co 6014 Broadway Chicago 40 III AM 2-2200 Tenn TA 13571
Coaxial Connector Co 37 N 2 Ave Mt Vernon N Y MO 8-6417 Cobehn Inc 18-24 Passaic Ave Caldwell N J CA 6-Cohan Epner Co 142 W 14 St New York 11 N Y CH 3-3411 CM 3-3411
Cohn Coro Sigmund 121 S Columbus Ave Mount Vernon N Y M0 4-5300
Coil Company of America 207 Washington St Northvale N J CL 5-3434
Coilcraft Inc Cary III ME 9-2361
Coil Eng'ng & Mfg Co Roanoke Ind
Coil Winders Inc New York Ave Westbury LI NY
ED 4-3170 Coil Winding Equipment Co 19 Maxwell Ave Oyster Bay NY OY 6-1285 Colber Corp 26 Buffington St Irvington 11 NJ ES 5-3004 5-3004
Coleman End'd Co 6040 W Jefferson Blvd Los Angeles 16 Calif TE 0-6931
Coleman Instruments Inc 318 Madison St Maywood III FI 3-8574
Cole Radio Works 86 Westville Ave Caldwell NJ
Collectron Corp 216 E 45 St New York 17 NY MU
2-8975
Collins Flestennics Mag Corp Caleman III FI Ave 2.8975
Collins Electronics Mfg Corp Stevensville Md MI 3.4661
Collins Radio Co 855 35 St N E Cedar Rapids Iowa EM 3.0281
Colman Tool & Machine So 1017 N E 3 Ave Amarillo Texas DR 2.7422
Colonial Alloys Co Ridge Ave & Crawford St Philadelphia 29 Pa GE 8.2272
Colonial Insulator Co 945 Grant St Akron 11 Ohio PR 3.6611 Colorado Research Corp 4697 E Evans Ave Denver 22
Colo SK 6-8327
Columbia Electric Mfg Co 4519 Hamilton Ave Cleveland 14 Ohio EN 1-8060
Columbia Metal Box Co 260 E 143 St New York 51
NY LU 5-2525 Columbia Products Co 6625 Shakespeare Rd Columbia SC 3-7031 Columbia Records Div Columbia Broadcasting System 799 7 Ave New York NY CI 5-7300 Columbia Tape Mills Bank St E Greenville Pa Columbia Technical Corp 61-02 31 Ave Woodside 77 NY AS 8-7401 NY AS 8-7401 Columbia Wire & Supply Co 2850 Irving Park Rd Chicago 18 III CO 7-3160 Columbian Carbon Co Mapico Color Unit 380 Madison Ave New York 17 NY MU 7-2300

Cook Ceramic Mfg Co Prospect St Trenton NJ EX 3-4135 Column Machine Co 87 State St Lynn Mass LY 3-0775 3-41-55 ook Electric Co 2700 Southport Ave Chicago 14 III DI 8-6700 ook Co Frank R 36 S Santa Fe Dr Deuver 23 Colo SH 4-1753 Colvin Labs Inc 364 Glenwood Ave E Orange NJ OR 7-1221 Comac Instrument Co 66-11 99 St Forest Hills 74 NY IL 9-6941 Comar Electric Co 3349 Addison St Chicago 18 III Cook Communication Products Co Marlboro NJ FE 8-1880 Communication Products Co Marlboro NJ FE 8-1880 Communication Corp Communication Co Cord Communication Products Co Marlboro NJ FE 8-1880 Community Eng'g Corp Box 824 State College Pa Cook Labs Inc 101 2 St Stamford Conn FI 8-7578
Co-operative Industries Inc 100 Oakdale Rd Chester
NJ CH-255 Cooper Co D C 1467 S Michigan Ave Chicago 5 III HA 7-8046
Cooper Electronics Inc 5637 Tulip St Philadelphia 24 Pa JE 5-7792
Connerwed Steal Co Willia and Cable Div Classes Copperweld Steel Co Wire and Cable Div Glassport Copperweld Steel Co Wire and Cable DIV Glassport
Pa NO 4-7131
Corbett Science Labs F W 3117 Venice Blvd Los
Angeles 19 Calif RE 3-5251
Corbin Corp 5419 56 Pl Riverdale Md AP 7-7676
Cords Limited Div Essex Wire Corp 121 Dodge Ave
DEKalb III 6-2721
Cornelius Co 550 39 Ave N E Minneapolis 21 Minn SII 8-8613 SU 8-8613
Cornell-Dubilier Electric Corp 333 Hamilton Blvd
S Plainfield NJ PL 6-9000
Corning Glass Works Corning NY 2-5011
Sales Manager—Charles Harwaad
Glass Electronic Components
NEW YORK-SE—M R Berell 718 Fifth Avenue Community Eng'g Corp Box 824 State College Pa Computer Control Co 92 Broad St Wellesley 57 Mass WE 5-6220 Computer Eng'g Associates 350 N Halstead St Pasa-dena 8 Calif EL 5-7121 Computer Instruments Corp 92 Madison Ave Hamp-stead NY IV 3-8290 NEW YORK-SE—M R Berell 718 Fifth Avenue Circle 6-9224
CHICAGO-SE—Jack Beck Merchandise Mart Delaware 7-6600
LOS ANGELES-SE—H B Gumbart 1125 W Sixth St Phane Michigan 8091
Cornish Wire Co 50 Church St New York 7 NY BA 7-5140
Corona Eng'g Service 94-52 Corona Ave Elmhurst 73 NY 1L 7-2777
Corrugated Paper Products 2233 Utica Ave Brooklyn 34 NY ES 7-6112
Corry-Jamestown Mfg Corp 43 N Center St Corry Pa 2-8221
Corson Electric Mfg Corp 540 39 St Union City stead NY 17 3-8290
Computer-Measurements Corp 5528 Vineland Ave
N Hollywood Calif ST 7-0401
Comruting Devices of Canada Ltd P 0 Box 508
Ottawa Ontario Can PA 8-1761
Conant Labs 6500 0 St Lincoln 5 Nebr 2-5774
Concert Hall Society 71 5 Ave New York 3 NY
AL 5-5156 Condenser Machinery Co 28 Harbor St Stamford Conn FI 8-5394 Condenser Mf Mfrs Inc 1018 Pearl St Nashville Tenn AL 6-142")
Condenser Products Div New Haven Clock & Watch
Co 140 Hamilton St New Haven 4 Conn MA 4-1174
Con-Elco 1711 S Mountain Ave Monrovia Calif
Conn Hard Rubber Co P O Box 1911 New Haven 9
Conn SP 7-2631
Conn ttd C G 1101 E Beardsley Ave Elkhart Ind
3-33-07 Electric Mfg Corp 540 39 St Union City 9-3560
Cosmic Condenser Co 853 Whittier St Bronx NY
LU 9-3360
Cosmic Radiation Labs 247 Blue Point Ave Blue
Point LI NY EM 3-6130
Cossor (Canada) Ltd 301 Windsor St Halifax Nova
Stotia Canada
Coto-Coil Co 65 Pavilion Ave Providence 5 RI WI
1-3355 Conn l td 3-3350 3-33-50
Conn Marine Instrument Co Essex Conn SQ 7-8960
Conn Telephone & Flectric Corp 70 Brittania St
Meriden Conn BE 5-7941
Connector Corp 6025 N Keystone Ave Chicago 30
III KE 9-3108
Connector Corp of America 3223 Burton Ave Burbank Calif VI 9-2129
Connector Corp 200 Aceb St Philideletic 2 P. 10 Couch Ordnance Inc 3 Arlington St N Quincy 71 Mass PR 3-0074 Cox & Co 115 E 23 St New York 10 NY OR 4-4727 Conoflow Corp 2100 Arch St Philadelphia 3 Pa LO Cox & Co 115 E 23 St New York 10 NY OR 4-4/27
Craftint Mfg Co 1615 Collamer Ave Cleveland 10 Ohio
GL 1-1225
Craft Labs 209 Ayliffe Ave Westfield NJ WE 2-5464
Craig Systems Inc 90 Holten St Danvers Mass SP
4-1870 7-7560 7-7560
Conrac Inc 19217 E Foothill Blvd Glendora Calif ED 5-1241
Conrad Inc 141 Jefferson St Holland Mich 3161
Conrad & Moser 2 Borden Ave Long Island City 1
NY ST 4-3616
Consolidated Avionics 66 Brooklyn Ave Westbury NY Cramer Controls Corp Centerbrook Conn SO 7-8255
Crane Packing Co 6400 Oakton St Morton Grove III
OR 4-0100 Consolidated Avionics 66 Brooklyn Ave Westbury NY ED 4-8400 Consolidated Electrodynamics Corp 300 N Sierra Madre Villa Pasadena Calif SY 6-9381 Consolidated Electrodynamics Corn Rochester Div 1775 Mt Read Blvd Rochester 4 NY GL 3-7972 Consolidated Flectronic Industries 100 E 42 St New York 17 NY OR 4-0100
Crawford's of Beverly Hills 456 N Rodeo Dr Beverly Hills Calif BR 2-3231
Crescent Co 20 Central Ave Pawtucket RI PA 2-3100
Crescent Eng'g & Research Co 5440 N Peck Rd El Monte Calif GI 4-0528
Crescent Industries Inc 5900 W Touhy Ave Chicago III RO 3-6464
Crest Transformer Corp 1834 W North Ave Chicago 22 III EY 4-1609
Crittenden Transformer Works 1220 Nadeau St Los Angeles I Calif LU 8-6173
Croname Inc 3701 Ravenswood Ave Chicago 13 III BI 8-7500
Cro-Plate Co 747 Windsor St Hartford I Conn JA York 17 NY
Consolidated Productions Inc Broward Int'! Airport Ft Lauderdale Fla JA 2-8551
Consolidated Resistance Co of America 44 Prospect St Yonkers 1 NY YO 3-5900
Consolidated Vacuum Corp 1775 Mt Read Blvd Rochester 3 NY
Consolidated Wire & Associated Cos 1635 S Clinton St Chicago 16 III HA 1-4441
Constad Labs 85-02 162 St Jamaica NY JA 6-5555
Constantin & Co C L Route 46 Lodi NJ Gr 1-0100
Consumer Industrial Products P 0 Box 128 Cuyahoga Falls Ohio WA 8-0113
Contact Inc Maynard Mass TW 7-2642
Continental Connector Corp 34-63 56 St Woodside 77
NY TW 9-4422
Continental Connector Corp Newark Dela EN 8-8531 Cro-Plate Co 747 Windsor St Hartford 1 Conn JA 7-8273 Crosby Labs Inc Box 233 Robbins Lane Hicksville NY WE 1-3191
Cross Co H 15 Beekman St New York 38 NY WO 2-2044 Crown Controls Co 40 S Washington St New Bremen Crown Controls Co 40 S Washington St New Bremen Ohio 2311
Crown Industrial Products Co 713 Amsterdam Woodstock III 1900
Crucible Steel Co of America Henry W Oliver Bldg Pittsburgh 22 Pa AT 1-3800
Cryco Inc 1138 Mission St S Pasadena Calif SY 9-7674
Cross Westleye Cryp Lenni Rd Lenni Mills Pa MF 8-8531 8-8531 Continental Electric Co Taylor Tubes Inc 6 N Michinan Ave Chicano 2 III FI 6-1433 Continental Electric Co 325 Ferry St Newark 5 NJ MI 2-4050 MI 2-4050
Continental Electronics Ltd 302 Oakland St Brooklyn
22 NY EV 3-3331
Continental Electronics Mfn Co 4212 S Buckner Blvd
Dallas 77 Texas EV 1-1137
Continental Screw Co New Bedford Mass
Continental Wire Corp Box 363 Wallingford Conn
CO 9-7718 Crystalx-Westlake Corp Lenni Rd Lenni Mills Pa ME 6-5170
C-Thru Ruler Co 827 Windsor St Hartford Conn CH 7-0182 Cudner & O'Connor Co 4035 W Kinzie St Chicago 24 III VA 6-0200 III VA 6-0200
Cunningham Son & Co James 33 Litchfield St Rochester 8 NY BA 5-7240
Curtis Development & Mfg Co 3266 N 33 St Milwaukee 16 Wisc HI 5-1817
Curtiss-Wright Cora Electronics Div 631 Central Ave Carlstadt NJ GE 8-4000
Custom Components Inc P 0 Box 248 Caldwell NJ CA 6-3403 CO 9-7718
Continental X-Ray Corp 1536 N Clybourn Ave Chicago
10 111 MI 2-3711
Control Circuits Inc 103 Court St Middletown Conn
Control Corp 772 Central Ave N E Minneapolis 14
Minn FE 5-7893
Control Div Magnetics Inc Rox 391 Butler Pa 7-3787
Control Products Inc 306 Sussex St Harrison NJ HU
2-0213 Custom Gear Co 648 College St South Bend 28 Ind CE 4-5188 2-0213 Controlled Atmosphere Enclosures Corp 239.11 141 Ave Springfield Gardens 13 LI NY LA 8-7811 Control Specialists Inc 115 E Arbor Vitae St Ingle-wood 1 Calif OR 8-4688 Custom Scientific Instruments Inc 541 Devon St Kearny NJ KE 2-6403 Cutter-Hammer Inc 315 N 12 St Milwaukee 1 Wisc BR 1-7800
Cycle Transformer Corp 356 Glenwood Ave E Orange 11 NJ 0R 4-0731 Control Specialty Corp 1515 Spring Houston 5 Texas CA 5-5200 Convair Pomona Div General Dynamics Corp P O Box 1011 Pomona Calif LY 9-5111 velotron Specialties Co P O Box 1000 Moraga Calif DR 6-4712

Cyclotron

Daco Instrument Co Tillary & Prince Sts Brooklyn 1 5-8350 Dage Electric Co 67 N 2 St Beech Grove Ind ST 6-0458 Dage TV Div Thompson Products W 10 St Michigan City Ind TR 2-1823 Dage 1V Div Inompson Products W 10 St Michigan
City Ind TR 2-1823
Dahlstrom Metallic Door Co Buffalo & 2 Sts Jamestown NY 7991
Dakota Engig Inc 6641 Crenshaw Blvd Los Angeles
43 Calif PL 8-6090
Dale Boisen Co 2928 Nebraska Ave Santa Monica
Calif EX 5-1087
Dale Products Inc. P. O. Roy 136 Columbus Nebr Dale Products Inc P 0 Box 136 Columbus Nebr PHONE LOcust 4-3131 President—George Risk President—George Kisk Sec'y Treos—Roymond Arndt Vice Pres—J Motejko Sls Mgr—R H Engstrom Bronches—Albuquerque NM Brond Nomes—Dole—Dolchm NM Burbonk Colif Brond Nomes-Dole-Doloh PRODUCTS Minioture Precision Power Resistors
Deposited Corbon Resistors Encopsuloted
Resistors Multi-turn Seoled Potentiometers
Pressurized Potentiometers Trimmer Pressurized Potentiometers Trimmer
Potentiometers Knobs Diols Special Design
Electronic Components
Da-Lite Screen Co Warsaw Ind DI 2-9200
Dallons Labs 5066 Santa Monica Blvd Los Angeles
29 Calif No 4-1951
Dalmotor Co Div Dalmo Victor Co Div Textron Inc
1375 Clay St Santa Clara Calif CH 3-9415
Dalmotoron Co 534 Laurel St San Carlos Calif LY
3-4180
Dalmo Victor Co Div Textron Inc 1515 Industrial 3-4180
Dalmo Victor Co Div Textron Inc 1515 Industrial
Way Belmont Calif LY 1-1414
Damon Recording Studios 117 W 14 St Kansas City
5 Mo VI 2-2525
Dampo-Chaser Inc Box 520 Hendersonville NC HE 6084 Dana Inc P A 233 Broadway New York 7 NY W0 4-5144 Dana Inc P A 233 Broadway New York / NY WO
4-5144
Dane Electronic Labs Inc P O Box 209 Salem Mass
Dano Electric Co Winsted Conu
Dante Electric Mfg Co Bantam Conn JO 7-5307
Darco Industries Inc Gyro Dynamics Div 2151 E
Rosecrans Ave El Segundo Calif OS 5-3381
DATAmatic Corg 151 Needham St Newton Highlands
61 Mass DE 2-6960
Datex Div M Giannini & Co 1307 S Myrtle Ave Monrovia Calif EL 9-5381
Datran Electronics 3615 Aviation Blvd Manhattan
Beach Calif OS 5-7131
Daubert Chemical Co 333 N Michigan Ave Chicago 1
III AN 3-4342
Daven Co Route 10 Livingston NJ LI 6-4300
Daven Co Route 10 Livingston NJ LI 6-4300
Davenport Mfg Co 1713 N Ashland Ave Chicago 22
III DI 2-5620
Davies Molding Co Harry 1428 N Wells St Chicago 10 111 11 2-5620 Davies Molding Co Harry 1428 N Wells St Chicago 10 III MI 2-7240 Davis & Co J W 9212 Denton Dr Dallas 35 Texas FL 2-8405 Davis-K-Products Co 135 W 29 St New York 1 NY LO 4-1978
Davison Chemical Co Box 488 Pomoton Plains NJ
TE 5-3060 Daystrom Instrument Div Daystrom Inc Archbald Pa Daystrom Instrument Div Daystrom Inc Archbald Pa JE 1100 Daystrom Pacific Corp Potentiometer Div 11150 La Grange Ave Los Angeles 25 Calif GR 8-3796 Daystrom Pacific Corp 3030 Nebraska Ave Santa Monica Calif EX 3-6755 Daytom Aviation Radio & Equipment Corp R R 3 Troy Ohio FE 2-5513 Daytronic Corp 216 S Main St Dayton 2 Ohio Dazor Mfg C JE 2-2400 Corp 4481 Duncan Ave St Louis 10 Mo Deagan Inc J C 1770 W Berteau Ave Chicago 13 III LA 5-4364 Dearborn Electronic Labs Inc 1421 N Wells St Chicago 10 III WH 3-2412
Dearborn Glass Co 6600 S Harlem Ave Bedford Park Argo III L<sup>1</sup> 5-0900

Decatur Electronic Industries Corp 203 Orinoco Dr

Brightwaters LI NY BA 7-6680

Decimeter Products Co 730 Hooker St Denver 4 Colo Decimeter Products Co 730 Hooker St Denver 4 Colo MA 3-0726
Decker Aviation Corp 1361 Frankford Ave Philadelphia 25 Pa GA 5-2300
DeCoursey Eng<sup>1</sup>g Lab 11828 W Jefferson Blvd Culver City Calif EX 7-9668
Dee Electric Co 1101 N Paulina St Chicago 22 III HU 6-7959
Defender Instrument & Regulator Co Boody III EL 2519 2519
Defiance Eng'y & Microwave Corp Beverly Airport
Beverly Mass WA 2-8100
Defiance Printed Circuit Corp Moulton & Munroe Sts
Georgetown Mass FL 2-2261
Deltz Co S J 9 E Wesley St S Hackensack NJ HU
8-8516 DeJur-Amsco Corp Electronic Sales Div 45-01 Northern Blvd Long Island City 1 NY AS 8-1040 Delaware Products Co 300 Broadway Camden 3 NJ WO 6-2284 Delco Radio GL 7-8211 Div General Motors Corp Kokomo Ind Detco Radio Dry General Misses (L. 7-821)

Del Electronics Corp. 41 N Mac Questen Pkwy Mt Vernon N Y MO 7-8878

Delevan Electronics Corp. Roycroft Campus E Aurora NY CY 3650

Delta Chemical Works 23 W 60 St New York 23 NY PL 7-6317

Delta Co 333 W 24 Pl Chicago 16 III VI 2-7100

Delta Coils In MU 4-5878 Inc 1128 Madison Ave Paterson 3 NJ Delta Radio Co 115 Worth St New York 13 NY RE 2-6649 Deltime Inc 638 Fayette Ave Mamaroneck NY MA 9-5800 Deltron Inc 2905 N Leithgow St Philadelphia 33 Pa RE 9-1559 RE 9-1559
Deltronic Corp 1507 Riverside Dr Los Angeles 31
Calif CA 2-0136
Deming Indicator Co 1016 Acorn Dr Dayton 9 Ohio
DeMornay-Bonardi Corp 780 S Arroyo Pkwy Pasadena
Calif RY 1-7416
Denison Enging Div American Brake Shoe 1160 Dublin
Rd Columbus 16 Ohio Hu 8-1191
Dennison Mfg Co 300 Howard St Framingham Mass
TR 3-3511
Denrad Mfg Co 310 W Woodard St Denison Taxas Denrad Mfg Co 310 W Woodard St Denison Texas HO 5-2336 Denson Electronics Corp P O Box 122 Rockville Conn T2: 5-5198 Conn T.º 5-5198
Dephoure Studios Inc 782 Commonwealth Ave Boston
15 Mass BE 2-5722
Derivation & Tabulation Associates 67 Lawrence Ave
W Orange NJ
De Rochemont Associates Inc Louis 380 Madison Ave
New York 17 NY 0X 7-0350
Design Tool Corp 80 Washington St New York 6 NY
WH 3-7466
Designers for Industry 4241 Fulton Pkwy Cleveland
9 Obio Designers for an accession of the provided of Peutsch Co 7000 Avalon Blvd Los Angeles 3 Calif PL 1-4131 Deutschmann Corp Tobe Norwood Mass NO 7-2620 Devco Eng'g Inc P O Box 387 Caldwell NJ CA 6-Development Eng'g Co 9 Cross St Norwalk Conn V0 6-7720 VO 6-7720
Devol Research Co Brookside Dr Greenwich Conn
Devtronics Inc 1995 Spruce St Trenton 8 NJ LY
0-2543
DeWald Radio Mfg Corp 35-15 37 Ave Long Island
City 1 NY ST 4-9334
Dewey & Almy Chemical Co 62 Whittemore Ave Cambridge 40 Mass TR 6-1400
DeWitt Development Co 3008 W 127 St Blue Island
III FU 8-2480
Island Corps 60 Stowart Ave Brookby 37 NV HV Dialinht Corp 60 Stewart Ave Brooklyn 37 NY HY 7-760 Usamond Antenna & Microwave Corp 7 North Ave Wakefield Mass CR 9-4650 Diamond Coils Inc 540 39 St Union City NJ UN 7-6797 7-6797
Diamond Drill Carbon Co 244 Madison Ave New York
16 MY LE 2-3006
Diamond Power Specialty Corp Lancaster Ohio OL
3-6540
Diamond Tool Enn'g Co 108 Massachusetts Ave Boston 15 Mass CO 6-1630
Diamonite Products Mfg Co 217 4 St N E Canton 2
Ohio GL 6-2446
Diatron Co 3327 Dixie Dr Houston 21 Texas JA 24458
Dice Co J W 16 Highwood Ave Englewood NJ LO Dice Co J W 16 Highwood Ave Englewood NJ LO 9-0471 Diec Co J W 16 Highwood Ave Englewood NJ LU 9-0471
Dictaphone Corp 420 Lexington Ave New York 17 NY M! 4-4470
Die-Form Circuits Inc 6045 W Ogden Ave Chicago 50 III 0L 6-0211
Diell Mfg Co Finderne Ave Somerville NJ RA 5-2200
Dielett Inc Cedar & Gross Sts Fords NJ YA 6-6636
Dielectric Materials Co 5315 N Ravenswood Ave Chicago 40 III LO 1-5833
Dielectric Materials Co 5315 N Ravenswood Ave Chicago 40 III LO 1-5833
Dielectric Products Eng'g Co Raymond Md CA 200
Dietz Co Henry G 12-16 Astoria Blvd Long Island
City 2 NY RA 6-3347
Dietz Design & Mfg Co Grandview 13 Mo S0 1-7216
Digitonics Corp 35-10 36 Ave Long Island City 6
NY EX 2-3405
Diectrix Corp Allen Blvd Farmingdale L! NY CH Dilectrix Corp Allen Blvd Farmingdale LI NY CH 9-7999 9-7999
Dilectron Div Gudeman Co 2669 S Myrtle Ave Monrovia Calif RY 1-8631
Dimco-Grav Co 207 E 6 St Davton 2 Ohio HE 6703
Dinion Coil Co Caledonia NY 88
Dirigo Compass & Instrument Co Boeing Field Box 37
Seattle 8 Wash LA 5940
Dit-Mco Inc Electronics Div 911 Broadway Kansas
City Mo HA 1-8484
Dittmore-Freimuth Corp 2517 E Norwich St Milwauker 7 Wisc HU 3-7724
Divon Crucible Co Joseph 167 Wayne St Jersey City
3 NJ DE 3-3000
Dmeter Mfg Co 22 Larkin Plaza Yonkers NY YO Dmeter Mfg Co 22 Larkin Plaza Yonkers NY YO 9-1770 D & M Products 13144 W McNichols Rd Detroit 35 Mich UN 1-0802 Milen UN 1-0802 Doelcam Div Minn-Honeywell 1400 Soldiers Field Rd Boston 35 Mass Dolinko & Wilkens Inc 1907 Summit Ave Union City NJ 11N 7-6639 NJ 11N 7-6639
Dolin Metal Products Inc 315 Lexington Ave Brooklyn
16 NY NE 8-9472
Dollar Co Robert Communications Equip Div 50
Drumm St San Francisco 11 Calif EX 2-8454
Dollin Corp 636 S 21 St Irvington 11 NJ ES 4-3000
Donnelly Mfg Co 580 Winter St Waltham 54 Mass
TW 3-5700
Donner Scientific Co 888 Calindo St Concord Calif Donner Scientific Co 888 Galindo St Concord Calif MU 2-6161

Dormeyer Industries 3418 Milwaukee Ave Chicago 41 III AV 3-4000 Dorne & Margolin 29 New York Ave Westbury NY ED 4-3200 Dossert Mfg Corp 249 Huron St Brooklyn 62 NY EV 9-9320 Doty Acoustical Electronic Labs 431 Broome St New York 13 NY EL 1-0202 Douglas Aircraft Co 3000 Ocean Park Blvd Santa Monica Calif EX 4-3241 Douglas Instrument Labs 176 Norfolk Ave Boston 19 Mass HI 5-4836 Douglas Mirrowaye Co 252 F 3 St Mt Version NY Douglas Microwave Co 252 E 3 St Mt Vernon NY Douglas Microwave Co 252 E 3 St Mt Vernon NY M0 8-6900 Douglas Radio Labs 176 Norfolk Ave Boston 19 Mass HI 5-4836 Douglas Roesch Cable Div Hall-Scott Inc 2950 N Ontario St Burbank Calif VI 9-3231 Doven Mach & Eng Inc 2706 W Van Buren St Chicago 12 III SA 7-3355 Dow Chemical Co Midland Mich TE 2-2371 Dow. Key Co P 0 Box 57 Warren Minn 2-7301 Downing Crystal Co 191 Shaffer Ave Westminster Md WE 1192 Drake Electric Works 3654 N Lincoln Ave Chicago 18 Drake Electric Works 3654 N Lincoln Ave Chicago 18 Til LA 5-6883

Drake Mfg Co 1713 W Hubbard St Chicago 22 III
CH 3-4462 Drakenfeld & Co B F 45 Park PI New York 7 NY BA 7-6809
Dressen-Barnes Corp 250 N Vinedo Ave Pasadena Calif RY 1-0643 Calif RY 1-0643
Presser Electric Co 942 E Larned Detroit 7 Mich
WO 2-9484
Presser-Ideco Co 875 Michigan Ave Columbus 8 Ohio
AX 9-2123
Driver Co Wilbur B 1875 McCarter Hwy Newark 4
NJ HU 2-5550
Driver-Harris Co Harrison NJ HU 3-4800
D. & R. Littl 402 F Gutierree St Santa Barbara Calif D & R Ltd 402 E Gutierree St Santa Barbara Calif W0 5-4511 Dry Screen Process Inc 1016 Madison Ave Pittsburgh 12 Pa FA 1-5255 D & S Mfg Co 424 Burk Ave Ridley Park Pa Dubbings Sales Corp 226 Franklin Ave Hewlett NY FR 4-5600 Du-Co Ceramics Co Box 278 Saxonburg Pa IL 2-1511 Dudek & Co R C 407 N Maple Dr Beverly Hills Calif BR 2-8097 BR 2-8097
DuKane Corp St Charles III ST-2300
Dumont Airplane & Marine Instruments Inc 15 William St New York 5 NY HA 2-6130
Du Mont Labs Inc Allen B 760 Bloomfield Ave Clifton
NJ M. 4-7400 NJ M1 4-7400

Dumont Labs Allen B Industrial Tube Sales 2 Main Ave Passaic NJ MU 4-7400

Dumore Co 1300 17 St Racine Wisc ME 3-8221

Dunlap Electronics 764 9 St Des Moines 14 Iowa AT 8-0801

Dunlee Corp 4558 W Congress St Chicago 24 III NE 2-3418

Dunn Eng'g Associates 186 Massachusetts Ave Cambridge 39 Mass UN 4-0400

Dunton Co M W 7 Goff St Providence RI DE 1-3600

Duotone Co Locust St Keyport NJ KE 7-1501

Du Pont De Nemours & Co E I Wilmington 98 Dela DL 4-5121

Durable Rubber Products 609 W Lake St Chicago 6 Durable Rubber Products 609 W Lake St Chicago 6 Till RA 6-3322

Duralith Corp 1025 Race St Philadelphia 7 Pa WA 3-1900 Duramark Inc P O Box 231 Port Washington NY Duramark Inc P U Box 231 Port Washington NY PO 7-3232

Durant Mfg Co 1950 N Buffum St Milwaukee 1 Wisc LO 2-5035

Durez Plastics Div Hooker Electrochemical Co 1926

Walck Rd Niagara Falls NY LU-1860

Duro Specialty Co 811 Boston St Lynn Mass LY 8-3479 Durson Co 10416 National Blvd Lps Angeles 34 Calif VE 7-1072 Dwyer Eng'y Co Pine St Ext Nashua NH TU 3-3206 Dyna Co 5142 Master St Philadelphia 31 Pa GR 7-Dyna-Empire Inc 1075 Stewart Ave Garden City LI NY PI 1-2799 Dynalysis Development Labs Inc 11941 Wilshire Blvd Los Angeles 25 Calif GR 7-6786 Dynamic Air Eng'y Inc 7412 Maie Ave Los Angeles 1 Calif LU 8-3292 Dynamic Gear Co 20 Merrick Rd Amityville LI NY LI 1-3660 LI 1-3660

Dynamics Instrumentation Co Div Alberhill Corp 1118
Mission St S Pasadena Calif RY 1-3318

Dynamics Research Associates Div Universal Match
Corp P O Box 5841 Ferguson 21 M o JA 2-1620

Dynamu Magnetronics Corp Div Maico Co 21 N 3 St
Minneapolis 1 Minn FE 9-7041

Dzus Fastener Co Box 185 Babylon NY MO 9-0494

Eagle Electric Mfg Co 23-10 Bridge Plaza S Long
Island City 1 NY ST 4-9200

Eagle Electronics Corp P O Box 775 Meriden Conn
BE 7-5528 Pencil Co 703 E 13 St New York 9 NY CA Eagle-Picher Co American Bldg Parkway & Walnut Cincinnati 2 Ohio PA 1-7010
Eagle Signal Corp 202 20 St Moline III
Eastern Air Devices Inc 385 Central Ave Dover NH
Eastern Chemical Corp 34 Spring St Newark 4 NJ
HU 2-6939 Eastern Etching & Mfg Co Grape St Chicopee Mass

Eastern Industries Inc 100 Skiff St Hamden 14 Conn CH 8-3841 Eastern Precision Resistor Corp 675 Barbey St Conn CH 8-38-1
Eastern Precision Resistor Corp 675 Barbey St Brooklyn 7 NY HY 5-0133
Eastern Rolling Mills 1126 E 180 St New York 60 NY TA 3-2000
Eastern Smelting & Refining Corp 109 W Brookline St Boston 18 Mass CO 6-7504
Eastern Specialty Co 3617 N 8th St Philadelphia 40 Pa SA 2-0500
Eastman Kodak Co 343 State St Rochester 4 NY LO 2-6000
Eastman Pacific Co 2320 E 8 St Los Angeles 21 Calif TR 6317
Eaton Fleetronics Corp Moodus Conn TR 3-8628 Eaton Electronics Corp Moodus Conn TR 3-8628
Eaton Mfg Co Reliance Div 25 Charles Ave S E Massillon Ohio TE 2-1511 sillon Ohio TE 2-1511
Eberline Instrument Div Reynolds Electrical 805
Early St Santa Fe N Mexico 2-1881
Ebert Electronics Corp 212-26 Jamaica Ave Queens
Village 28 NY SP 6-1800
Eckstein Radio & TV Co 2601 E Franklin Ave Minneapolis 6 Minn FE 9-7509
Eclipse Fuel Eng'g Co 1100 Buchanan Rockford III
8-3751 Eclipse F 8-3751 8-3/51 Eclipse-Pioneer Div Bendix Aviation Corp Teterboro NJ AT 8-2000 Ed-Berl Products Inc 87 Merrick Rd Baldwin NY Edcliff Instruments 1711 S Mountain Ave Duarte Calif EL 8-4572 Edcliff Instruments 205 W Duarte Rd Monrovia Calif EL 8-4574 EL 8-4574
Edgerton, Germeshausen & Grier 160 Brookline Ave Boston 15 Mass CO 7-3520
Edin Co 207 Main St Worcester 8 Mass PL 7-8394
Edison Industries Thomas A Instrument Div 93 Lakeside Ave W Orange NJ OR 3-6800
Edko Electronics Eng'g Co 202 Grand St Brooklyn 11
NY EV 4-2746
Edo Corp 13-10 111 St College Point 56 LI NY FI 3-6000
Edmund Scientific Co 101 E Clausester Div Supplements ri 3-6000 Imund Scientific Co 101 E Gloucester Pike Barring-ton NJ LI 7-3488 jan Lab 107-56 113 St Richmond Hill 19 NY MI 1-0605 Egan Eicor Inc 4235 W North Ave Chicago 39 III HU 6-2060 Eidson Electronic Co 1902 N 3 St Temple Texas PR 3-3901 Eisler Eng'g Co 750 S 13 St Newark 3 NJ BI 3-5310 Eitel-McCullough Inc (EIMAC) 798 San Mateo San Bruno Calif JU 8-1212 Bruno Calif JU 8-1212
Vice Pres—Manutacturing—G F Wunderlich
Vice Pres—Finance—E E McClaran
Dir of Marketing—O H Brown
Dir of Research—John S McCullough
Personnel Mgr—Raberta McMahan
Purch Agt—Donald Rogers
Adv Mgr—Berkley J Baker
ATLANTA-R—J E Joyner Jr 2524 Jenny Wren
Lane SW PO Box 341 Statian A PLaza 8-4910
BOSTON-R—Tim Caakley Sales Office 148
Needham St Newton Highlands DEcatur
2-4800 2-4800
CHICAGO-R—Rayal J Higgins Co 10105 S
Western Ave CEdarcrest 3-7388

DENVER-R—McLoud & Raymond Co 5528 E
Colfax Ave FLarida 5-3525
GRAND PRAIRIE TEXAS-R—Tex-O-Rama Sales
Co PO Box 747 (Dallas) ANdrew 2-0866
(Fort Worth) Crestview 4-4530

JERSEY CITY-R—Adalph Schwartz 15 Exchange
Place Raam 919 DElaware 3-2424
KANSAS CITY-R—Clyde H Schryver Sales Co
4550 Main St Room 224 LOgan 1-4826-4827
LOS ANGELES-R—Herb Becker 1140 Cresshaw
Blvd Webster 1-1257
SEATTLE-R—Rush Drake Associates 1806 Bush
Place EAst 1737
CANADA-R—Ahearn & Saper Ltd PO Bax 715 2-4800 PIGCE EAST 1/3/
CANADA-R—Ahearn & Soper Ltd PO 8ox 715
Ottown Ontario Phone Central 3-4068
Elastic Stop Nut Corp of America 2330 Vauxhall Rd
Union NJ MU 6-6000
Elco Corp M St below Erie Ave Philadelphia 24 Pa CIO COP M St below Erie Ave Philadelphia 24 Pa CU 9-5500 Elco Mfg Co 137 Herrick Rd New Hyde Park LI NY PI 6-US40 Elcor Inc P 0 Box 354 McLean Va EL 6-4760 Elco Tool & Screw Corp 1800 Broadway Rockford III 4-8611 Eldema Corp 9844 Remer St El Monte Calif GI 4-7077 7077
Eldorado Electronics Co 1401 Middle Harbor Rd
Oakland Calif GL 1-3210
Electomic Mechanisms Inc P 0 Box 1156 Greenwich
Conn GR 8-3564
Electralab Inc "A" St Needham Heights 94 Mass
NE 3-5009
Electra Mfg Co 4051 Broadway Kansas City Mo
WE 1-6864 ectran Mfg Co 1901 Clybourn Ave Chicago 14 III BI 8-4596 Electrend Products Corp Box 110 St Joseph Mich YU 3-5572 Electric Auto-Lite Co Wire & Cable Div Port Huron Mich YU 5-6131 Electric Coil Co 4911 S Marshfield Ave Chicago 9 III 7-0701 Electric Cord Co 21 Spruce St New York 38 NY WO 2-2528 ectric Design & Mfg Co Jefferson St Burlington Iowa PL 2-7685 Electric

Electric Eye Equipment Co 1941 E Fairchild St Danville III 2000 Electric Furnace Co W Wilson St Salem Ohio ED 2-4661 Electric Hotpack Co Cottman Ave & Melrose St Phila-delphia 35 Pa DE 3-1700 Electric Indicator Co Camp Ave Stamford Conn DA 2-1671 2-16/1 Electric Machinery Mfg Co 800 Central Ave Minne-apolis 13 Minn FE 9-6/51 Electric Motors & Specialties King & Hampsher St Garrett Ind 613 Electric Regulator Corp Pearl St Norwalk Conn VI 7-2401
Electric Soldering Iron Co W Elm St Deep River Conn LA 6-5975
Electric Specialty Co 211 South St Stamford 1 Conn F1 8-6203
Electric Storage Battery Co Exide Automotive Div 42 S 15 St Philadelphia 2 Pa
Electric Terminals Corp 2019 Center St Cleveland 13 Ohio MA 1-8062
13 Ohio MA 1-8062
Electric Trading Co 313 Canal St New York 13 NY CA 6-0575 Electric Electric Trading Co 313 Canal St New York 13 NY CA 6-0575

Electrical Communications Inc 76 Clementina St San Francisco 3 Calif KL 2-1947

Electrical Eng'g & Mfg Corp 4612 W Jefferson Blvd Los Angeles 16 Calif RE 3-0151

Electrical Industries 691 Central Ave Murray Hill NJ CR 7-4300

Electrical & Physical Instrument Corp 42-19 27 St Long Island City 1 NY ST 4-6389

Electrical & Physical Instrument Corp 42-19 27 St Long Island City 1 NY ST 4-6389

Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio CH 3-8107

Electrical Refractories Co E Clark St E Palestine Ohio GA 6-433

Electrical Service Co 1271 Mission St San Francisco 3 Calif Jun 1-2245

Electrical Specialty Co 158 11 St San Francisco 3 Calif Jun 1-2245

Electrical Testing Labs Inc 2 East End Ave New York 21 NY BU 8-2600

Electrical Tower Service Inc 325 S Washington St Peoria III 3-9846

Electrical Utilities Co 2427 St Vincent's Ave La Salle 1H 1732

Electrical Windings Inc 2015 N Kolmar Ave Chicago 39 III BE 5-3360

Electro Assemblies Inc 4444 N Kedzie Ave Chicago 25 III KE 9-3100 Electro Assemblies Inc 4444 N Kedzie Ave Chicago 25 III KE 9-3100 Electro-Ceramics Inc 120 State St New Haven Conn LO 2-4134 LO 2-4134
Electro-Chemical Eng'g & Mfg Co 750 Broad St Emmaus Pa WO 5-9061
Electrochemical Industries Inc 35 Armory St Worcester 3 Mass PL 6-3846
Electrodata Div Burroughs Corp 460 Sierra Madre Villa Pasadena Calif RY 1-0471
Electro-Devices Inc 4 Godwin Ave Paterson 1 NJ AR 4-8989 Electrodyne Co Endicott St Norwood Mass NO 7-3203 Electro Eng'g Works 401 Preda St San Leandro Calif LO 9-3326 LO 9-3326
Electro-Fabricators 44 Beacon PI Pasadena Calif
Electro-Flex Heat Inc 83 Woodbine St Hartford 6
Conn CH 7-2401
Electro Impulse Lab Inc 208 River St Red Bank NJ
Electro Instruments Inc 3794 Rosecrans St San Diego
10 Calif CY 8-6144 Electrola Inc 7517 N Clark St Chicago 26 III RO 4-5025
Electromath Corp 42-14 Greenpoint Ave Long Island City 4 NY ST 4-3483
Electro-Measurements Inc 7524 S W Macadam Ave Portland 1 Ore CH 6-3331 Portland 1 Ore CH 6-3331
Electro-Mec Lab Inc 47-51 33 St Long Island City
1 NY ST 6-3402
Electro-Mechanical Div General Riveters Inc 785
Hertel Ave Buffalo 7 NY BE 9685
Electro-Mechanical Instrument Co 8 & Chestnut St
Perkasie Pa AL 7-6561
Electro-Mechanical Specialties Co 1016 N Highland
Ave Los Angeles 38 Calif HO 2-0793
Electro-Medical Lab Inc S Woodstock 10 Vt 144M4
Electro-Metallurgical Co Div Union Carbide & Carbon
30 E 42 St New York 17 NY MU 7-8000 Electro-Miniatures Corp 1060 Elm Ave Ridgefield NJ WH 3-7300 Electromode Div Commercial Controls Corp 45 Crouch St Rochester 3 NY BU 8-1880 Electro Motive Mfg Co Willimantic Conn HA 3-4551 Electron Enterprises 6917 W Stanley Ave Berwyn III ST 8-2693 Electronic Assembly Co 5 Prescott St Roxbury 19
Mass HI 5-7585 Electronic Associates Inc Long Branch NJ CA 9-1100 Electronic Batteries Inc 28-34 35 St Brooklyn 32 NY ST 8-3641 S18-3041 Electronic Brazing Co 140 Glenridge Ave Montclair NJ P1 4-2160 Electronic Coil Co 2506 N Ontario St Burbank Calif TH 2-9898 Lin 2-3656 Electronic Coil Engineers Inc 5830 Main St Hollydale Calif NE 6-4333 Electronic Coils Inc P 0 Box 1665 Springfield Mass RE 6-6339

Electronic Control Systems 2136 Westwood Blvd Los Angeles 25 Calif GR 8-4266 Electronic Creations Co 1178 E 180 St New York 60 NY SY 2-3510 Electronic Designs Inc 28 School St Yonkers NY YO 9-4600 Electronic Devices Inc 429 12 St Brooklyn 15 NY SO 8-3530
Electronic Eng'a Co 362 W Bowery St Akron 7 Ohio FR 6-3191 Electronic Engry Co of Calif 180 S Alvarado Los Angeles 57 Calif DU 2-7353 Electronic Enterprises Inc 65 7 Ave Newark NJ HU Regulator Corp Pearl St Norwalk Conn VI 2-0630 2-06-30

Electronic Fabricators Inc Efcon Div 682 Broadway
New York 12 NY SP 7-49-00

ARLINGTON Mass-R-John E Boeing Co P O
Bax 186 Mission 8-2900 Covers New England
CHICAGO-R R-Edward Stemm 5681 W Lake
St Estebrook 9-2700 Covers III-Ind-Wis-St EStebrook 9-2700 Covers III-Ind-WisIowa-Minn
CINCINNATI-R—Sheridan Associates Roselawn
Center Bldg MEirose 2460 Covers CleveIand-Ky-Pa W of Harrisburg
CLEVELAND-R—Phil Johnson 5480 Queens Highway TUxedo 4-8060 Cavers Cleveland W Pa
MIAMI FLA—Kimball & Twitchell Electronic
Inc 2921 NW 6th Ave FRanklin 1-0655
DALLAS-R—George Weinreich & Associates
1210 Old Gate Lane DAvis 1-2800 Cavers
Tex-La-Ark
FRNDAILF MICH-P—Electro Mec Assocas 109 Tex-La-Ark
FERNDALE MICH-P—Electro Mec Assocas 109
E Nine Mile Rd LIncoln 7-1422 Covers Mich
GREENVALE LI NY-R—H W Brede Co 75 Glen
Cove Rd ROslvn 3-4700 Covers NY StateN-NJ Westchester
KANSAS CITY MC-R—Maury E Bettis Ca 406
W 34 St LOgan 1-0772 Covers Nebr-MoW Kansas Tulsa
PASADENA-R—Arvin Bell Co 385 E Green St
RYan 1-5492 Covers S Calif-Nev-New MexAriz Ariz FRANCISCO-R—E L Berman Co 780 Na-toma St UNderhill 3-0317 Cavers N Calif-Hawaii TTI E-R-Ray Johnston Co 11009 Evanstan Hawaii

SEATTLE-R—Ray Johnston Co 11009 Evanstan Ave EMerson 0956 Covers Wash-Ore-W Idaho-W Mont-Alaska

TOWSON MD-R—Habco Electronic Sales Co 603 Alleghen, Ave VAlley 5-9637 Covers Pa-Del-Ind-Va No Car-DC-So NJ

TULSA-R—Cotton D Daniels P O Box 7122 Tulsa Okla Riverside 7-0234 (M E Bettis Co)

EASTERN CANADA-R—J B Smyth 380 Craig St W Montreal Que HArbour 0729 Covers East Canada

lectronic Instrument Co 84 Withers St Branklyn 11 Concida

Electronic Instrument Co 84 Withers St Brooklyn 11

NY ST 2-2703

Electronic Machine Parts Inc 204 Lafayette St New York 12 NY WA 5-9907

Electronic Measurements Co Lewis St & Manle Ave Eatontown NJ EA 3-0300

Electronic Measurements Corp 625 Broadway New York 12 NY GR 5-0610

Electronic Measurements Corp 625 Broadway New York 12 NY GR 5-0610

Electronic Mechanics Inc 101 Clifton Blvd Clifton NJ GR 3-4108

Electronic Organ Arts 4878 Eagle Rock Blvd Los Angeles 14 Calif CL 6-6888

Electronic Parts Mfg Co 508 25 St Union City NJ UN 5-4028

Electronic Processes Corp of Calif 2190 Folsom St UN 5-4028
Electronic Processes Corp of Calif 2190 Folsom St
San Francisco 10 Calif UN 1-9595
Electronic Products Co 111 E 3 St Mt Vernon NY
M0 8-5368
Electronic Products Div Post Machinery 140 Elliot St
Beverly Mass WA 2-0811
Electronic Rectifiers Inc 2102 Spann Ave Indianapolis
3 Ind ME 1-9566
Flactronic Research Associates 67 F Centre St Nutley Electronic Research Associates 67 E Centre St Nutley 10 NJ NU 2-5-10 Electronics Corp of America 1 Memorial Dr Cambridge 42 Mass UN 4-8000 42 Mass UN 4-8000

Electronics Development Co 3743 N Cahuenga Blvd N Hollywood Calif ST 7-3223

Electronic Secretary Industries Inc 805 S 5 St Milwaukee 4 Wisc OR 2-0746

Electronic Specialty Co 5121 San Fernando Rd Los Angeles 39 Calif CH 5-3771

Electronic Systems Eng'g Co 903 Cravens Blvd Oklahoma City Okha

Electronic Transformer Co 70 Washington St Brooklyn 1 NY MA 5-5123

Electronic Tube Corp 1200 E Mermaid Lane Philadelphia 18 Pa CH 7-6800

Electron Products Inc 430 N Halstead St Pasadena 8 deighia 18 Pa UH 7-6800

Electron Products Inc 430 N Halstead St Pasadena 8
Calif RY 1-0666

Electron-Radar Products 4806 W Chicago Ave Chicago
51 III ES 9-1232

Electrons Inc 127 Sussex Ave Newark 3 NJ HU
2-5977

Flectro-Physics Co 287 Regardway New York 7 NV Electro-Physics Co 287 Broadway New York 7 NY W0 4-1290
Electro Products Labs Inc 4501 N Ravenswood Ave Chicago 40 III LO 1-1707 RE 6-6339
Electronic Communication Equipment Co 1249 W
Loyola Ave Chicago 26 III RO 1-1206
Electronic Computer Co 6191 Ridge Ave Philadelphia
28 Pa IV 3-5226
Electronic Contractors Inc 2101 SE 6 Ave Portland
14 Ore BE 4-3515
Electronic Control Corp 1573 E Forest Ave Detroit 7
Mich TE 2-6625 Electro-Pulse Inc 11861 Teale St Culver City Calif TE 0-8006 Electro Snap Switch & Mfg Co 4218 W Lake St Chi-cago 24 III VA 6-3100 Electrosolids Corp 7436 Varna Ave N Hollywood Calif PO 5-9716 Electro-Sonic Labs 35-54 36 St Long Island City 6 NY RA 8-6370

Electro Sound Corp 115 Halleck St Boston 15 Mass HI 2-7575

HI 2-7575

Electro-Switch & Controls Inc 5755 Camille Ave Culver City Calif TE 0-4643

Electro Switch Corp King Ave Weymouth 88 Mass ED 5-5200

Electro Tec Corp 4 Romanelli Ave S Hackensack NJ HU 7-4940

Electro-Technical Labs Div Mandrel Industries 5134

Glenmont Houston Texas MO 7-6561

Electro-Technical Products Div Sun Chemical Corp 113

E Centre St Nutley 10 NJ NU 2-7070

Electrovert Inc 489 5 Ave New York NY MU 2-2492

Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich OX 5-6831

Electrovo Co 60 Franklin St E Orange NJ OR 4-1060

Electrovox Co 60 Franklin St E Orange NJ OR 4-1060 Elektro Serv Co 480 Johnson Ave Brooklyn 37 NY HY 7-0053

HY 7-0053 Elfa Instrument Center 55 Reade St New York 7 NY

Elfa Instrument Center 55 Reade St New York / NY WO 4-1290
Elgin National Watch Co Electronics Div 2435 N Naomi St Burbank Calif VI 9-1446
Elgin National Watch Co 107 National St Elgin III SH 2-3300
Ellanar Chemical Co 2308 Oakton St Evanston III BR 4-7168

BR 4-7168
Ellis Associates 67 Lincoln Ave Pelham NY BE 8-3360
Ellis Associates 67 Lincoln Ave Pelham NY BE 8-3360
Ellis & Sens George D 4028 N American St Philadelphia 40 Pa BA 3-3405
Ellison Draft Gage Co 548 W Monroe St Chicago 6
Illi RA 6-2296
Ellis & Watts Products Inc P 0 Box 33 Cincinnati
36 Ohio SY 1-1725
Elm Labs 10 Washington Ave Hastings-on-Hudson NY DO 3-7770
Elmes Eng'g Div American Steel Foundries 1150 Tennessee Ave Cincinnati 29 Ohio RE 1-9210
El Products Corp P 0 B 41 New York 63 NY KI 8-3948

8-3948 El-Rad Mfg Co 2800 W Cullon Ave Chicago 18 III IR 8-7300

IR 8-7300 El-Tronics Inc Penn Ave Mayfield Pa JE-1450 Elzee Metal Products Co 775 39 St Brooklyn 32 NY GE 5-5000 EMC Recordings Corp 806 E 7 St St Paul 6 Minn

PR 6-2763
Emeloid Co 1239 Central Ave Hillside 5 NJ EL 2-1944

Emeloid Co 1239 Central Ave Hillside 5 NJ EL 2-1944

Emerson & Cuming Inc 869 Washington St Canton 1 Mass CA 6-1066

Emerson Electric Mfg Co 8100 Florissant Ave St Louis 21 Mo CO 1-1800

Emerson Plastics Corp Seabury Ave & Butler Pl Bronx 61 NY SY 2-4400

Emerson Radio & Phonograph Corp 14 & Coles Sts Jersey City 2 NJ SW 5-3500

Emerson-Sack-Warner Corp 85 Washington St Somerville 43 Mass MO 6-4450

Emmett Machine & Mfg 445 E Turkeyfoot Lake Rd Akron 19 Ohio TY 6-2312

Empire Devices Products Corp 38-15 Bell Blvd Bayside 61 NY BA 4-8500

Empire Electronics Co 166 River St Paterson 1 NJ AR 4-8282

Endeco Eng'g Development Co of Los Angeles 922 E Anaheim St Wilmington Calif TE 5-1430

Endeco Corp 161 E California St Pasadena Calif RY 1-5231

1-5231

1-5231
Enflo Corp Rte 38 at Airport Circle Pennsauken 11 NJ ME 8-0485
Engelhardt Eng'g Co 38 Burritt Ave S Norwalk Conn VO 6-9647
Engineered Electronics Co 506 E 1 St Santa Ana Calif KI 3-9384
Engineered Magnetics Div Gulton Industries Inc 13030 Cerise Ave Hawthorne Calif OS 5-0366
Engineering Associates 434 Patterson Rd Dayton 9 Ohio WA 1662
Engineering Co 27 Wright St Newark 5 NJ BI 3-0800
Engineering Developments Inc Forest Ave Middletown RI VI 6-9100
Engineering Enterprises Inc 1200 18 St N W Wash-

Engineering Enterprises Inc 1200 18 St N W Washington 6 D C
Enthone Inc 442 Elm St New Haven 8 Conn SP 7-5581

NY BA 5-1876
Entror Inc 4902 Lawrence St Bladensburg Md AP

7-9585

7-9585
Forvironmental Equipment Co 369 Linden St Brooklyn
27 NY HE 3-9872
E O Electronics Inc Mountain Lakes NJ RO 9-3091
Epro Electronics Inc 140 Liberty St New York 6
NY WO 2-1573

Epro Products Inc 2500 Atlantic Ave Brooklyn 7 NY DI 5-7531

Epoxy Products Inc Div Joseph Waldman & Sons 133 Coit St Irvington NJ ES 5-6000

Epsco Inc 588 Commonwealth Ave Boston 15 Mass CO 7-8100

Epsylon Sales & Services Ltd N Feltham Trading Estate Faggs Rd Bedfont Feltham Middlesex England FE-5091

Equip-A-Matic Eng'g Corp 6045 W Ogden Ave Chicago 50 III OL 6-0211

Equipment & Service Co 6815 Oriole Dr Dallas 7 Texas FL 2-9918

Equipto Div Aurora Equipment Co Aurora III 64641 Eraser Co 1068 S Clinton St Syracuse 4 NY 76-7441 Erca Tool Die & Stamping Co 19 Ash St Brooklyn 22 NY EV 9-1618 Ercona Corp 551 5 Ave New York 17 NY MU 2-2577

Erco Radio Labs Inc 637 Stewart Ave Garden City NY PI 1-0300

Erdco Eng'g Corp Official & Westgate Addison III TE 4-1849

Erie Resistor Corp 644 W 12 St Erie 6 Pa 2-1481 President—G R Fryling

First VP—W H Fryling First VP—W H Fryling
VP-Gen Mgr—B B Minnium
VP & Treas—J E Dieteman
VP Marketing—Allen K Shenk
VP Res & Eng—J D Heibel
Mgr Electronics Div Sales—W R Crotty
Mgr Electro-Mechanical Div—E S Willis
Gov't Sales & Spec—J C Van Arsdell
Sls Mar Plastics Div—W C Conroy
Mgr Distributor Div—R A Elliot
Mgr Industrial Sales—R N Sisson
Credit Mgr—J Farkas
BOSTON-BOISGV—L Hague—Lowel St Carlisle Mass

lisle Mass Isle Mass
Me-NH-Vt-Conn-Mass-RI
BOSTON-DS—Jack Goss Co 99 Highland Ave
Somerville Mass covers N England PRospect

CAMDEN-BOISGV—M Hollingsworth Broadway-Stevens Bldg 300 Broadway Rm 701 Covers Phil-S NJ-Md CAMDEN-BOISGV—C R John

Stevens Bldg 300 Broadway Raom 701 covers
CHICAGO-DS—Lewis & Trimble Inc 5420 W
Fullerton Ave Covers III & E Wis NAtional

2.0704 CHICAGO-BOISGV—J T Zuravleff Diversey Ave NAtional 26080-1-2 Covers III-

CHICAGO-BOISGV—G K Egelston 5809 W Diversey Ave NAtional 26080-1-2 Covers III-

Mich-Wie
COLUMBUS-DS—J W Lehner 367 Brynhild Rd
LUdlow 5260 Covers Ohio-W Pa-W Va
DALLAS-IDS—J Y Schoonmaker 5328 Redfield
Ave PO Box 35266 LAkeside 6-7238
DETROIT-DS—Jack M Thorpe 640 Hidden Lane
Covers Mich TUxedo 4-4360
DENVER-IDS—Allen I Williams & Co 124 W 12
St MAin 3-0343 Covers Colo-N M-Utah &
Wyo-Western Neb-El Paso County-TexasArizona

Wyo-Western Neb-El Paso County-Texas-Arizona

ERIE-BOISGV—W M Fabian 644 W 12th St Phone 2-1481 Covers N Ohio-Upper N Y-N W Pa

FT WAYNE-BOISGV—W J Wervey 4617 Euclid Ave HArrison 9669 Covers Ind-S Ohio GREENSBORO-105—Atcheson & Adams Inc 601 N Elm St 2-6838 Covers Ala-Fla-Ga-Miss-N C-S C-Tenn-Va

INDIANAPOLIS-DS—E A Schulz 721 Sherwood Dr BRoadway 1993 Covers Ind-Ky

Dr BRoadway 1993 Covers Ind.-Ky
KANSAS City-DS—Collins Havercamp Ass 6217
W 77th St Covers Iowa-Miss-Kan-Neb NIagara 2-6153
LOS ANGELES-BOIS-GV—George H Osborn
12932 S Weber Way Hawthorne Calif Oregon 8-5418 Covers Ariz-SCalif-Nev
LOS ANGELES-BOIS—P Champlain 12932 S
Weber Way Hawthorne Calif Oregon 85418 Covers Ariz-S Calif-Nev

Weber Way Hawthorne Cal 5418 Covers Ariz-S Calif-Nev

LOS ANGELES-DS—R E Osborne 1044 S Park-view DUnkirk 81039 Covers S Calif

MEXICO-IDS—Kenneth H Jones Apartado 2250 Rio Elba 32-104 Covers Mexico NEWARK-DS—Art Cerf & Co 744 Broad St MItchell 2-6734 Covers N N J-N Y City & State N N J

State N N J
PALISADES PARK N J-BOISGV—D N Sawtelle
#6 State Highway #5 MOrsemere 65100
Covers Metropolitan New York
PALISADES PARK N J-BOISGV—M E Darrin #6

PALISADES PARK N J-BOISGV—M E Darrin #6
State Highway #5 MOrsemere 65100 Covers
Metropolitan New York
PALISADES PARK N J-BOISGV—F J Rich #6
State Highway #5 MOrsemere 65100 Covers
Met N Y
ROCHESTER MEGALEMENT

Met N Y

ROCHESTER MICH-IN—G K Rosenquist P O
Box 68 Covers Mich

ST PAUL-IDS—Edward Hoffman 635 S Cleveland Ave Covers Minn-N Dak-Western
Wisconsin Midway 9-3371

SAN CARLOS-IDS—David H Ross Co 534 El
Camino Real LYtell 3-8224 Covers N Calif-

Nev SEATTLE-IDS--Verner O SEATILE-IDS—Verner O Jensen 2616 2 Ave MUtual 2929 Covers Idaho-Mont-Ore-Wash TORONITO-IDS—Fred Eaton 4972 Dundas St West BEImont 1-1712 Covers Canada WYNNEWOOD PA-DS—L D Lowery Inc 50 E Wynnewood Rd PO Box 255 MIdway 2-9100 Covers DC-Del-E Pa-Va-S N J-Md Erikson Specialized Tool Co 4902 S Lexington Rd Pico 1 Calif OX 9-3719
Frast & Adfiliates W Arthur 925 Haves Am Basing Jensen

Ernst & Affiliates W Arthur 825 Hayes Ave Racine Wisc ME 2-2731 Erwood Inc 1770 W Berteau Ave Chicago 13 IIJ BI 8-0622

ESC Corp 534 Bergen Blvd Palisades Park NJ WI 7-0400 Essex Electronics Div NYT Electronics Inc 7303 Atoll Ave N Hollywood Calif ST 7-5451

Essex Electronics 550 Springfield Ave Berkeley Heights NJ GR 3-9300

Essex Wire Corp 1601 Wall St Ft Wayne 6 Ind

E-4461
Ess Instrument Co 96 S Washington Ave Bergenfield
NJ DU 4-3411
Espey Mfg Co Congress & Ballston Ave Saratoga
Springs NY 4100
Esterline-Angus Co P 0 Box 596 Indianapolis 6 Ind
CH 4-3318

CH 4-3318

Etched Products Corp 39-01 Queens Blvd Long Island
City 4 NY ST 4-5900

Eureka X-Ray Tube Corp 3250 N Kilpatrick Ave Chicago 41 III KI 5-3126

Ewald Instruments Route 7E Kent Conn
Exact Eng'n & Mfg Inc P 0 Box 668 Oceanside Calif
SA 2-8503

Exact Weight Scale Co 944 W 5 Ave Columbus 8 Ohio

SA 2-8503
Exact Weight Scale Co 944 W 5 Ave Columbus 8 Ohio AX 1-4617
Exacto Industries Inc 8730 Santa Monica Blvd Los Angeles 46 Calif OL 5-7470
Exakta Camera Co 705 Bronx River Rd Bronxville 8 NY BE 7-5500
Excellex Electronics Inc 475 Chestnut St Cedarhurst L I NY CE 9-8532
Executone Inc 415 Lexington Ave New York 17 NY MU 7-7440
Exide Industrial Div Electric Storage Battery Co 42 S 15 St Philadelphia 2 Pa LO 4-4030
Extruders Inc 3233 W El Segundo Blvd Hawthorne Calif OR 8-4071
E-Z-Hook Test Products 1536 Woodburn Ave Covington Ky CO 1-1495
E-Z Way Towers Inc 5901 E Broadway Tampa 5 Fla 4-2171
Factory Enterprises Inc 3431 Butler St Pittsburgh 1 Pa MU 1-1199
Factory Service Co 4615 N 21 St Milwaukee 9 Wisc HI 5-2715
Fafnir Bearing Co 37 Booth St New Britain Conn BA 9-0381
Fairbanks Wire Co 2287 Hollers Ave New York 69

9-0381
Fairbanks Wire Co 2287 Hollers Ave New York 69
NY FA 4-1266
Fairchild Camera and Instrument Corp Industrial
Camera Div 88-06 Van Wyck Expressway Jamaica 1
NY JA 6-3800
Fairchild Controls Corp Components Div 225 Park Ave

Fairchild Controls Corp Components Div 225 Park Ave Hicksville L I New York
Phone Hicksville WE 8-5600
H E Hale—Vice President & General Mar
A A Budde—Sales Manager
Los Angeles Plant Fairchild Controls Corp 6111
E Washington Bivd Los Angeles California
L M Griswold—West Coast Manager
B C Rogers—West Coast Sales Manager

B C Rogers—West Coost Soles Monager
Fairchild Electrical Products Div 110 Main St Burlington Vt 4-5786
Fairchild Guided Missiles Div Fairchild Engine & Airplane Corp Straight Path Wyandanch L I NY MI 3-7171
Fairchild Recording Equipment Co 10-40 45 Av Long Island City 1 NY ST 4-6163
Fair-Rite Products Corp Commercial Row Wallkill NY WA 3-2632
Faistrom Co Falstrom Court Passaic NJ PR 7-0013
Fansteel Metallurgical Corp 2200 Sheridan Rd N Chicago III DE 6-4900
Farley & Loetscher Mfg Co Plastics Div 7 & White Sts Dubuque Iowa 2-5451
Farmer Electric Products Co 2300 Washington St Newton Lower Falls 62 Mass DE 2-4260
Farnam Mfg Co 2000 Sweeten Creek Rd Asheville NC 3-5652

3-5652
Farnsworth Electronic Co Pacific Div 815 S San Antonio Rd Palo Alto Calif YO 7-7249
Farnsworth Electronics Co Div I T & T 3702 E Pontiac St Ft Wayne Ind E-7175
Farrand Controls Inc 4401 Bronx Blvd New York 70
NY FA 4-2209
February Co Neal 427 Olive St Santa Barbara Calif WO 2-0722
February Inc. 1 W 6566

2-0722
Fecker Inc J W 6592 Hamilton Ave Pittsburgh 6 Pa Federal Anti Capacity Switch Corp 72 Kingsley St Buffalo 8 NY GA-1600
Federal Cable Div Roval Electric Corp 95 Grand Ave Pawtucket R I 2-8600
Federal Equipment Co 38 Brady St San Francisco 3 Calif UN 3-3607
Federal Machine Co 807 Garlield Ave Jersey City 5 NJ HE 5-1500
Federal Mfly & Eng'g Corp 1055 Stewart Ave Garden City NY PI 2-7400
Federal Products Corp 1144 Eddy St Providence R I ST 1-9300

City NY P1 2-/400 Federal Products Corp 1144 Eddy St Providence R I ST 1-9300 Federal Screw Products Inc 3917 N Kedzie Ave Chicago 18 III IR 8-5744 Federal Shockmount Corp 1060 Washington Ave New York 56 NY WY 3-0400 Federal Telecommunication Labs Div IT&T 500 Washington Ave Nutley NJ NU 2-3600 Federal Telephone & Radio Co Div IT&T 100 Kingsland Rd Clifton NJ NU 2-3600 Federal Tool & Mfg Co 3600 Alabama Ave Minneapolis 16 Minn WE 9-7843 Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 NY RE 2-9740 Feedback Controls Inc 899 Main St Waltham 54 Mass TW 4-1020 Feiler Eng'g & Mfg Co 8026 N Monticello Ave Skokie III 7987 Feiner & Sons P 522 W 45 St New York 36 NY

Feiner & Sons P 522 W 45 St New York 36 NY PL 7-6150 Fellows Gear Shaper Co 78 River St Springfield Vt TU 5-2131

Felters Co 210 South St Boston 11 Mass LI 2-7021 Felthousen Audio Service 17615 Ludlow St Granada Hills Calif EM 3-1451

Felt Products Mfg Co 1504 Carroll Ave Chicago 7 III MO 6-6750
Felt & Tarrant Mfg Co Comptometer Dictation Div Algonquin III 0L 8-4548
Femco Inc Irwin Pa UN 3-3200
Fenwal Electronics Inc Mellen St Framingham Mass
Fenwal Inc Pleasant St Ashland Mass TR 2-3577
Ferranti Electric Inc 30 Rockefeller Plaza New York 20 NY CI 7-0911
Ferroxcube Corp of America 35 E Bridge St Saugerties NY NY NY Fibre Containers Co 4700 District Blvd Los Angeles 58 Calif LU 3-2177 Fidelity Amplifier Co 703 Willow St Chicago 14 III MO 4-2966 MO 4-2966
Fidelity Chemical Products Corp 470 Frelinghausen
Ave Newark 12 NJ BR 2-4110
Fielden Instrument Div Robertshaw-Fulton Controls
Co 2920 N 4 St Philadelphia 33 Pa GA 6-6750
Filmack Studios 1327 S Wabash Ave Chicayo 5 III
HA 7-3395
Film Arts Production 1032 N 6 St Milwaukee 3 Wisc BR 6-5670 Associates 4600 S Dixie Hgwy Dayton 9 Ohio WA 2164
Film Capacitors Inc 3400 Park Ave New York 56 NY CY 2-5180 Filmohm Corp 48 W 25 St New York 10 NY WA 4-9276 Filtors Inc 30 Sagamore Hill Dr Port Washington NY PO 7-3850 tron Co 131-15 Fowler Ave Flushing 55 NY FL -8300 y-5300 Filtron Co 10023 W Jefferson Blvd Culver City Calif FE 9-2206 Finn & Co T R 200 Central Ave Hawthorne NJ HA Finn & Co T R 200 Central Ave Hawthorne NJ HA 7-4100 Finney Co 34 W Interstate St Bedford Ohio BE 2-6161 Firestone Guided Missile Div Los Angeles 54 Calif First Electronics Corp 117 Blue Hill Ave Boston 19 Mass HI 5-1810 First Electronics oury 11 Const. Const. Mass HI 5-1810
Firth Sterling Inc 3113 Forbes St Pittsburgh 13 Pa MU 2-4600
Fischer & Co H G 9451 W Belmont Ave Franklin Park III TU 9-0400
Fischer & Co R A 517 Commercial St Glendale 3 Calif CH 5-2404
Fischer & Porter Co 478 Warminster Rd Hatboro Pa OS 5-6000 Fischer & Por OS 5-6000 Fisher & Crome 109 N Camac St Philadelphia 7 Pa LO 4-5054 Fisher Co R H 40 Gough St San Francisco 3 Calif UN 1-2569 Fisher Eng'g Inc P O Box 327 Huntington Ind 315 Fisher Governor Co Marshalltown Iowa 5561 Fisher-Pierce Co 170 Pearl St S Braintree 85 Mass VI 3-5000 V13-3000 Fisher Radio Corp 21-21 44 Dr Long Island City 1 NY EX 2-2500 Fisher Research Lab 1961 University Ave Palo Alto Calif DA 2-4646 7-2102 2-5500

Fisher Scientific Co 711 Forbes St Pittsburgh 22 Pa EX 1-1330 Fish-Schurman Corp 70 Portman Rd New Rochelle NY NE 6-1300
Five Star Co W Main St Plantsville Conn MA 8-5561
Flanders Mill Inc P 0 Box 718 Riverhead NY PA

7-2102
Flexaust Co 100 Park Ave New York 7 NY OR 9-1300
Flexo International Corp 3255 W Lake St Chicago 24
III KE 3-3257
Flexonics Corp 1315 S 3 Ave Maywood III MA 6-3664
Flexrock Co 3609 Filbert St Philadelphia 1 Pa BA

Flight Research Inc P O Box 1-F Richmond 1 Va FA-2506 Flock Process Co 375 Main Ave Norwalk Conn VI 7-4586

7-4586
Floquil Products Inc Cobleskill NY 1260
Florman & Babb 68 W 45 St New York 36 NY MU 2-2928
FluiDyne Eng'g Corp 425 N 7 St Minneapolis 6 Minn FE 8-6905
Fluke Mfg Co John 1111 W Nickerson St Seattle 99
Wash GA-5700

wash GA-5/UU Fluorocarbon Products Inc Div U S Gasket Co 602 N 10 St Camden 1 NJ WO 4-0370 Flush Wall Radio Co 1012 Cleveland St Clearwater Fla 34-6061

ria 34-0001 Foote Bros Gear & Machine Corp 4545 S Western Blvd Chicago 9 III VI 7-4200 Foote Mineral Co 18 W Chelten Ave Philadelphia 44 Pa VI 8-4000

Pa VI 8-4000 Forbes & Wagner Inc 343 Central Ave Silver Creek NY 650 Ford Eng'ng Inc 3030 Nebraska Ave Santa Monica Calif EX 3-6755

Calif EX 3-6755
Ford Instrument Co Div Sperry Rand Corp 31-10
Thomson Ave Long Island City 1 NY ST 4-9000
Ford Radio & Mica Corp 536 63 St Brooklyn 20 NY
GE 9-8300
Formica Corp 4614 Spring Grove Ave Cincinnati 32
Ohio KI 1-3670
Formica Metal Products Co Corporation Way Medford
55 Mass MY 8-5656
Forro Scientific Co 833 Lincoln St Evanston III DA
8-5729
Forsbero Mfg Co 125 Seaview Ave Bridgenort 3 Corporation May

6-5/29 Forsberg Mfg Co 125 Seaview Ave Bridgeport 1 Conn ED 4-9469 Forter-Teichmann Co 1212 Clark Bldg Pittsburgh 22 Pa EX 1-0820

Fort Wayne Metals Inc 3211 MacArthur Dr Ft Wayne 6 Ind HA-3267 Foster Eng'g Co 835 Lehigh Ave Union NJ MU 6-8800

Foster Transformer Co 3820 Colerain Ave Cincinnati 23 Ohio MU 1-2420 Fostoria Pressed Steel Corp N Main St Fostoria Ohio HE 5-7721 Foto-Video Labs Inc 25 Amity St Little Falls NJ LI

4-2557 Fox Products Co 4720 N 18 St Philadelphia 41 Pa MI 4-2700

m1 4-2/00 Frankel Connector Co 27 Vestry St New York 13 NY WA 5-3563 Franklin A W 39 Broadway New York 6 N Y Franklin Electronics Inc Box 113 Bridgeport Pa BR

2-4800

Franklin Fibre-Lamitex Corp Wilmington Dela OL
8-5269

8-5299

Frederick Recording Co 101 Townsend St Midland Mich TE 2-3757

Frederick Tool & Eng'g Corp 414 Pine Ave Frederick Md MO 2-1802

Freed Transformer Co 1718-36 Weirfield St Brooklyn 27 NY EV 6-1300

Freeland Products Co 706 Dryades St New Orleans 12 La TU-5361

Freeway Washer & Stamping Co 4911 Grant Ave Cleveland 5 Ohio BR 1-6262

Frenchtown Porcelain Co Muirhead Ave Trenton 9 NJ EX 2-3154

Frequency Standards P O Box 504 Asbury Park NJ PR 4-0500

FretCo Inc 406 N Craig St Pittsburgh 13 Pa MU 1-8116

1-8116
Friez Instrument Div Bendix Aviation Corp 1400 Taylor Ave Baltimore 4 Md VA 3-4040
F-R Machine Works Inc Electronic & X-Ray Div 26-12
Borough PI Woodside 77 NY AS 8-2800
Fugle-Miller Labs Inc 301 Central Ave Clark NJ
FU 1-2727
Fuller Co H B 181 W Kellogg Blvd St Paul 2 Minn
Furane Plastics Inc 4516 Brazil St Los Angeles 32
Calif CH 5-1153
Furnas Electric Co 1000 McKee St Batavia III 3410
Fusite Corp 6000 Fernview Ave Cincinnati 13 Ohio
RE 1-2020
Fuze-on Products Div Aetna Supply Inc 15 N Hickory
St Arlington Heights III CL 5-5000

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St Arlington Heights III CL 5-5000
Gabriel Electronics Div Gabriel Co 135 Crescent Rd
Needham Heights 94 Mass NE 3-0005
Antennas and Associate accessory equipment
Complete Laboratory and Production Facilities

ities
Director of Sales & Engineering—Mr Steven

Galagan Sales Manager-Dr H G Giuliani

Telephone—NEedham 3-3005 (thru Boston)
Gaertner Scientific Corp 1250 Wrightwood Ave Chicago 14 III BU 1-5335
Gahagan Inc Waterman Ave Esmond 17 RI CO 1-4000
Gamewell Co 1238 Chestnut St Newton Upper Falls

64 Mass RT 4-1240 Garde Mfg Co 588 Eddy St Providence 3 RI UN 1-

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ATLANTA GA—D B Buchanan 206 Underwood
Drive N W
LOS ANGELES 7 CALIF—Perlmuth Electronic
Associates 2419 South Grand Avenue
PHILADELPHIA PA—D G Quinlan Company

4700 Frankford Avenue
PHOENIX ARIZONA—H Geo Shefler Company PO Box 1587 CHICAGO 26 ILL—Arthur J Ellis Company 1607

CHICAGO 26 ILL—Artnur J Ellis Company Iwa Howard Street ST LOUIS MO—William F Dudzik IIIO S Brent-wood Blvd St Louis 17 Mo BROOKLYN NY—Anthony P Mauceli 81 Irving

Avenue NEW HARTFORD NY—Arthur F Schultz 96 Ox-

ford Road BROOKLINE 46 MASS—Henry P Segel Company

BROOKLINE 46 MASS—Henry P Segel Company Inc 386 Washington St
WILLOWDALE ONTARIO CANADA—Consolidated Electronic & Equipment Company 94 Sheppard Ave West
HOUSTON 25 TEXAS—Packard Associates 4007
Bellaire Blvd
\*DALLAS TEXAS—Packard Associates 5526 Dyer

\*DALLAS TEXAS—Packard Associates 5526 Dyer Street Dallas 6 Texas RALEIGH N C—Jack L Truesdell 2372 McMullen Circle
Gardiner Electronics Co 2545 E Indian School Rd Phoenix Ariz CR 4-9681
Gardner Lab Inc P O Box 5728 Bethesda 14 Md OL 6-3600
Gar Pacision Parts Inc 703 Pacific St Stamford

OL 6-3600 Gar Precision Parts Inc 703 Pacific St Stamford Conn FI 8-2671 Garlock Packing Co 402 Main St Palmyra NY 480 Garrard Sales Corp 80 Shore Rd Port Washington NY PO 7-7700

NY PO 7-7700
Garrett Corp AiResearch Mfg Co Div 9851 Sepulveda
Blvd Los Angeles 45 Calif OR 2-0131
Gary Wells Co 361 Rockaway Ave Valley Stream NY
LO 1-2914
Gates & Co Geo W Hempstead Tpke & Lucille Ave
Franklin Square LI NY FI 7-0787
Gates Electronic Co 2090 Barnes Ave Bronx 62 NY
TY 2-6490
Gates Radio Co 123 Hampshire St Quincy III BA 28702

8202 Gavitt Wire & Cable Co Central St Brookfield Mass VO 7-3600 G-C Electronics Div General Cement Textron 400 S Wyman St Rockford III 2-6695

Gear Specialties Inc 2635 W Medill Ave Chicago 47 III DI 2-3200

Geartronics Corp 2514 Broadway Long Island City Gee-Lar Mfg Co 418 S Wyman St Rockford III 2-6695 Geisler Labs P O Box 252 Menlo Park Calif EM 8-4127 Corp 1200 Commerce Ave Union NJ MU

6-4400
General American Transportation Corp 135 S LaSalle
St Chicago 90 III FI 5-4100
General Automatic Corp 12 Carlton Ave Mountain
View NJ
General Bronze Corp 711 Stewart Ave Garden City

NY PI 1-4400

General Cable Corp 420 Lexington Ave New York 17 NY LE 2-2920

NY LE 2-2920
General Cement Mfg Co Div Textron Inc 400 S Wyman St Rockford III 2-6695
General Ceramics Corp Keasbey NJ VA 6-5100
General Chemical Div Alfied Chemical & Dye Corp 40
Rector St New York 6 NY HA 2-7300
General Coil Products Corp 43 Roselle St Mineola NY
PI 6-4455
General Communication Co 677 Beacon St Boston 15
Mass CO 7-6030
General Components Inc 225 E 144 St Bronx 51 NY
MO 5-0740
General Control Co 1200 Soldiers Field Rd Boston 34 Mass ST 2-7440
General Controls Co 801 Allen Ave Glendale 1 Calif
VI 9-2181
General Crystal Co P 0 Box 9 Burlington Wisc RO

V19-C161 General Crystal Co P O Box 9 Burlington Wisc RO 3-2425 General Devices Inc P O Box 253 Princeton NJ LY 9-4507

9-4507 General Electric Co Construction Materials Div 1285 Boston Ave Bridgeport 2 Conn ED 4-1012 General Electric Co Ltd of England c/o IMTRA Corp 58 Charles St Cambridge 41 Mass UN 4-4350 General Electric Co Chemical Materials Dept 1 Plas-

General Electric Co Unemical Materials Dept 1 Plastics Ave Pittsfield Mass 8223
General Electric Co Box 237 Roosevelt Park Annex
Detroit 32 Mich JE 6-9100
General Electric Co Specialty Electronic Components
Dept W Genesee St Auburn NY 3-7321
General Electric Co Capacitor Dept John St Hudson
Falls NY 4-3341

Falls NY 4-3341
General Electric Co Ltd of England 80 Shore Rd Port
Washington NY PO 7-7700
General Electric Co Apparatus Sales Div 1 River Rd
Schenectady 5 NY FR 4-2211
General Electric Co Electronic Components Div 1 River
Rd Schenectady 5 NY FR 4-2211
General Electric Co Communication Products Dept

Rd Schenectady 5 NY FR 4-2211
General Electric Co Communication Products Dept
Syracuse NY 76-4411
General Electric Co Light Military Electronic Equip
Dept French Rd Utica NY 5-3311
General Electric Co Silicone Products Dept Waterford NY AD 8-3330
General Electric Co Lamp Wire & Phosphors Dept
1331 Chardon Rd Cleveland 17 Ohio KE 1-5050
General Electric Co Coshocton Ohio 1914
General Electric Co X-Ray Dept 4855 Electric Ave
Milwaukee 1 Wisc EV 3-3211
General Findings & Supply Co Industrial Div Leach

MINVAUKE 1 WISC EV 3-3211 General Findings & Supply Co Industrial Div Leach & Garner Bldg Attleboro Mass 1-1155 General Hermetic Sealing Corp 99 E Hawthorne Ave Valley Stream NY 5-6363 General Industries Co Olive & Taylor Sts Elyria Ohio 2235 2235

General Instrument Corp Automatic Mfg Div 65
Gouveurner St Newark 4 NJ HU 5-2100
General Instrument Corp F W Sickles Div Chicopee

General Instrument Corp F W Sickles Div Chicopee Mass SP 3-6621 General Insulated Wire Works 69 Gordon Ave Providence 5 RI HO 1-2100 General Kinetics Inc 555 23 St S Arlington 2 Va OT 4-7555 General Machine & Instrument Co Clinton Rd & Rt 46 Caldwell NJ CA 6-7444 General Magnetic Corp 10001 Erwin Ave Detroit 34 Mich WA 1-7558 General Magnetics Inc 135 Bloomfield Ave Bloomfield NJ PI 8-2400 General Metal Products Co 1010 Centre St Easton Pa 9122

General Mills Inc Chemical Div South Kensington Rd Kankakee III 2-6751 General Nuclear Corp 550 5 Ave New York 32 NY PL 7-3638

General Photo Products Co 15 Summit Ave Chatham NJ ME 5-5200

General Plastics Corp 165 3 Ave Paterson 4 NJ AR 4-4710

General Precision Lab Inc 63 Bedford Rd Pleasant-ville NY RO 9-5000 President—H G Place Executive Vice Pres & Technical Director—R L

Garman Executive Vice Pres & General Manager—J W

Murray Vice Pres Industrial Sales—Blair Foulds

Vice Pres Avionic Eng-R W Lee

Vice Pres Avionic Eng—R W Lee
Vice Pres Avionic Soles—W J Tull
Manager TV Sales—N M Marshall
Manager Government Contracts—W C Cooper
LA GRANGE ILL—23 W Cakudar Ave—R H
Johnston

PASADENA Cali-21 N Santo Anito Ave-R K Hunsicker

JENKINTOWN Pa-The Benson-J W Mullen PLEASANTVILLE NY-63 Bedford Road-S L General Radio Co 275 Massachusetts Ave Cambridge 39 Mass TR 6-4400 General Research & Supply Co 572 S Division Ave Grand Rapids 3 Mich GL 9-7256 General Resistance Inc 577 E 156 St New York 55 NY CV 2-1500 General RF Fittings Inc 702 Beacon St Boston 15 Mass kE 6-229U General Scientific Equipment Co 7516 Limekiln Pike Philadel, hia 50 Pa HA 4-1550 General Testing Labs 227 W Chestnut Ave Monrovia Calif EL 8-0168 General Transformer Co 18240 Harwood Ave Homeeneral Transformer Co 18240 Harwood Ave Home-wood III 124 wood III 124
General Transistor Corp 91-27 138 Pl Jamaica 35
NY OL 7-9700
General Transistor Western Corp 6110 Venice Blvd Los
Angeles 34 Calif WE 3-5867
General Ultrasonics Co 67 Mulberry St Hartford 3
Conn JA 7-2161
Genisco Inc 2233 Federal Ave Los Angeles 64 Calif
GR 8-1276
Gettechnical Corp 2732 GR 8-1276
Geotechnical Corp 3712 Haggar Dr Dallas 9 Texas
FL 7-1721
Geotronic Labs Inc 1314 Cedar Hill Ave Dallas 8
Texas WH 6-9123
Gcrber Scientific Instrument Co 162 State St Hartford 3 Conn CH 6-8539
Gerlyn Eng'g Co 2151 N Damen Ave Chicago 47 III
HU 6-4054 HU 6-4054
Gertsch Proudcts Inc 11846 Mississippi Ave Los Angeles 25 Calif GR 8-7777
Giannini & Co G M 918 E Green St Pasadena Calif RY 1-7152
Gibson Electric Co 8317 Frankstown Ave Pittsburgh 21 Pa FR 1-6500
Gilfillan Bros 1815 Venice Blvd Los Angeles 6 Calif Gilmore Industries Inc 5713 Euclid Ave Cleveland 3
Ohio HE 2-2828
Girard-Hopkins 1000 40 Ave Oakland 1 Calif KE 2-Ohio HE 2-2828 Girard-Hopkins 1000 40 Ave Oakland 1 Calif KE 2-8477 Gisholt Machine Co 1245 E Washington Ave Madison Glaser Lead Co 31 Wyckoff Ave Brooklyn 37 NY EV 6-5100 Glaser-Steers Corp 20 Main St Belleville 9 NJ PL 9-7474 9-7474
Glass & Bro Harry H 10 Van Cortlandt Ave E New York 68 NY LU 4-4570
Glass Eng'n Labs Inc 601 O'Neill St Belmont Calif LY 3-8276
Glass Products Co 6911 S South Chicago Ave Chicago 37 III FA 4-1050
Glastic Corp 4321 Glenridge Rd Cleveland 21 Ohio IV 6-0100 Gleason-Avery Inc 45 Aurelius Ave Auburn NY 3-6021 G-L Electronics Co 2921 Admiral Wilson Blvd Camden 5 NJ WO 6-2780 Glens Falls Lab Box 685 Glens Falls NY 2-5849 Globe Electrical Mfg Co 1729 W 134 St Gardena Calif Globe Industries Inc 1784 Stanley Ave Dayton 4 Ohio HE-3741 Glyco Pro 5-5140 Products Co 350 5 Ave New York 1 NY OX 5-5140
G & M Equipment Co 7315 Varna Ave N Hollywood Calif ST 7-1624
G-M Lahoratories Inc 4300 N Knox Ave Chicago 41
III PE 6-1800
G M Mfg Co 134 W 26 St New York 1 NY WA 4-Goat Co Fred 314 Dean St Brooklyn 17 NY TR 5-0940 dfrey Mfg Co 1726 N Orchard St Chicago 14 III MO 4-1196 mu 4-1196 Goe Eng'g Co 219 S Mednik Ave Los Angeles 22 Calif AN 1-2183 Goldak Co 1544 W Glenoaks Blvd Glendale 1 Calif CH 5-6571 CH 5-6571 Golden Co 1054 38 St Brooklyn 19 NY GE 6-2476 Goldsmith Bros Smelting & Refining Co 1300 W 59 St Chicago 36 III Good-All Electric Mfg Co Good-All Bldg Ogaliala Nebr 900 Nebr 900
Good Electric Corp Natick Mass 0L 3-0821
Goodrick Aviation Products Div B F Goodrich Co 500
S Main St Akron 18 Ohio BL 3-1171
Goodrich Chemical Co B F 3135 Euclid Ave Cleveland
15 Ohio UT 1-8200
Goodrich Industrial Products Co B F 500 S Main St
Akron 18 Ohio BL 3-1171
Goodrich Industrial Products Co B F Marietta Ohio
FR 3-6611 Goodrich Industrial Products Co B F Marietta Ohio FR 3-6611
Goodrich Sponge Products B F Div B F Goodrich Co Canal St Shelton Conn RE 5-4661
Goodyear Aircraft Corp 1210 Massillon Rd Akron 15 Ohio RE 3-6361
Gordon Enterprises 5362 N Cahuenga Blvd N Hollywood Calif PO 6-3725
Gordos Corp 250 Glenwood Ave Bloomfield NJ PI 3-6800 Gorn Electric Co Stamford Conn Gorrell & Gorrell 336 Old Hook Rd Westwood NJ WE 5-1057 Goslin Electric & Mfg Co 2921 W Olive Ave Burbank Golin Creen & mig Co 2921 W Unive Ave Burbank Calif TH 8-0776

Gotham Audio Development Corp 2 W 46 St New York 36 NY CO 5-5411

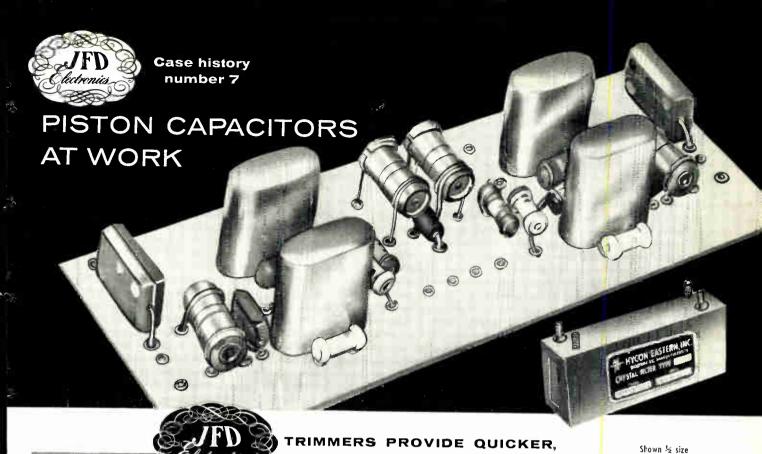
Gould Corp Jerome F 200 Stewart Ave Brooklyn 37

NY EV 6-3795 Gould-National Batteries Inc E-1201 First National Bank St Paul 1 Minn CA 2-7471 Gow-Mac Instrument Co 100 Kings Rd Madison NJ FR 7-3450 GPS Instrument Co 811 Boylston St Boston 16 Mass

Graflex Inc 154 Clarissa St Rochester 8 NY LO 2-8600 afo Colloids Corp 310 Wilkes PI Sharon Pa DI 6-5023 Grafton Eng'g Co 628 Vernon Rd Springfield Pa Gramer-Halldorson Transformer Corp 2734 N Pulaski Rd Chicago 39 III EV 4-4400 Granco Products Inc 36-07 20 Ave Long Island City NY RA 1-0400 Grand Ra-Tronics Inc 17360 Hayes Rd Grand Hayen Mich 2496
Grand Transformers Inc Beechtree & Marion Sts
Grand Haven Mich 3106
Grant Gear Works 154 W 2 St S Boston Mass AN 8-4403 Grant Pulley & Hardware Corp 31-85 Whitestone Pkwy Flushing 54 NY FL 9-1900 Graphic Systems 55 W 42 St New York 36 NY WI 7-8444 Graphik Circuits Div Cinch Mfg Corp 200 S Turnbull Canyon Rd La Puente Calif ED 3-1201 Graphite Metallizing Corp 1002 Nepperhan Ave Yonk-Grayon-Stadler Co W Concord Mass EM 9-3788
Graybar Electric Co 420 Lexington Ave New York 17
NY LE 2-4000 Grayhill Inc 561 Hillgrove Ave LaGrange III FL 4-1040 Gray Instrument Co 200 E Church Lane Philadelphia 44 Pa GE 8-3168 Gray & Kuhn 20 Railroad Ave Roslyn Heights NY RO 3-4308 Gray RO RO 3-4308
Gray Radio Co 501 Forest Hill Blvd W Palm Beach
Fla JU 2-2201
Gray Research & Development Co Hilliard St Manchester Conn M1 9-4506
Great Lakes Electric Mfp Co 17 S Desclaines St Chicago 6 III AN 3-3565
Great Western Div Interelectric Corp Warren Pa
Green Instrument Co 385 Putnam Ave Cambridge 39
Masc F1 4-2989 Mass EL 4-2989
Greene Co L Charlton 314 Washington St Newton 58
Mass Bl 4-1560
Ereenleaf Mfg Co Diy Mandrel Industries 7814 Magle-Freenleaf Mfg Co Div Mandrel Industries 7814 Maple-wood Industrial Ct St Louis 17 Mo ST 1-9888 Greenlee Tool Co 2136 12 St Rockford III 3-4881 Greer Hydraulics Inc N Y Inte'l Airport Jamaica 30 NY 0L 9-9700 Greer Stop Nut Co 2608 W Flournoy St Chicago 12 III VA 6-1637 Grem Eng'y Co 488 1 St Brooklyn 15 NY Gremar Mfg Co 7 North Ave Wakefield Mass CR 9ries Reproducer Corp Rochelle NY NE 3-8600 Grieve-Hendry Co 1401 W Carroll Ave Chicago 7 III TA 9-0200 Griffin Co John 2157 James Ave St Paul 5 Minn MI 8-2810 8-2510
Grigsby-Allison Co 407 N Salem Ave Arlington Heights
III CL 3-2180
Grinnell Co 260 W Exchange St Providence 1 RI
DE 1-5800
Griswold Machine Works Port Jefferson NY 8-0170
Groov-Pin Corn 1125 Hendricks Causeway Ridge Gruen Industries Inc Time Hill Cincinnati 6 Ohio WO 1-5900 Gruen Mfg Co 2631 Brenner Dr Dallas 20 Texas FL 2-2578 2-2578
Guardian Electric Mfg Co 1621 W Walnut St Chicago
12 III CH 3-1100
Guastavino Co R 660 Main St Woburn Mass WO 0420
Gudebrod Bros Silk Co 225 W 34 St New York 1 Gudebrod Bros Silk Co 225 W 34 St New York 1
NY LA 4-5858
Gudeman Co 340 Huron St Chicago 10 III
Guenther Willy K G 1138 Massachusetts Ave Arlington Mass MI 3-9286
Guild Electronics Inc 388 Broadway New York 13
NY CA 6-2900
Sulton Industries Inc 212 Durham Ave Metichen NA Gulton Industries Inc 212 Durham Ave Metuchen NJ LT 8-2800
G-V Controls Inc 45 Hollywood Plaza E Orange NJ
OR 3-4300
Gyro Electronics Co 325 Canal St New York 13 NY Gyro Electronics Co 325 Canal St New York 13 NY WO 6-1290
Hackensack Cable Corp 110 Orchard St Hackensack NJ HU 7-1100
Hackers & Co Wm J 82 Beaver St New York 5 NY BO 9-8750
Hagen Chemicals & Controls Inc Hagen Bldg Pittsburgh 30 Pa CO 1-4722
Halax Corp P O Box 425 Los Gatos Calif EL 4-2720
Hale-Hen Co 36-14 11 St Long Island City 6 NY EX 2-6020 2-6020 Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif PR 4-1010 Haller Raymond & Brown 124 N Atherton St State College Pa AD 7-7611 Hallett Mfg Co 1601 W Florence Inglewood Calif OR 8-4751 Hallicrafters Co 4401 W 5 Ave Chicago 24 III VA 6-6300 Hallikainen Instruments 1341 7 St Berkeley 10 Calif LA 4-1757 Hall Mfg Co 3901 Wesley Terrace Schiller Park III TU 9-7227 Hall-Scott Electronics Div Burbank Calif VI 9-2341 Hall Sonic Eng'g Co 2402 2 St Peru III 867 Halm Instrument Co 100 Glen Head Rd Glen Head NY GL 4-6700 Haloid Co Haloid St Rochester 3 NY GL 3-9460 Hamilton Electronics 2726 Pratt Ave Chicago 45 III

Hamilton Glass Co 2750 W Grand Ave Chicago 12 III EV 4-1400 Hamilton Mfg Co Two Rivers Wisc Hamilton Watch Co Allied Products Div Columbia Ave Lancaster Pa EX 4-7161 Hamlin Inc 1316 Sherman Ave Evanston III GR 5-8244 Hammarlund Mfg Co 460 W 34 St New York 1 NY LO 5-1300 Hammond Organ Co 4200 W Diversey Ave Chicago 39 III AV 3-200 TII AV 3-200 W Diversely AVE Chicago 39
Hamner Electronics Co Princeton NJ PE 7-1320
Hanncock Electronics Corp 2553 Middlefield Rd Redwood City Calif EM 6-8468
Handy & Harman 82 Fulton St New York 38 NY BE 3-2460
Hanovia Chemical & Mfg Co 100 Chestnut St Newark 5 NJ MA 4-7100
Hansen Co Wm 165 Silverbrook Ave Niles Mich Hansen Electronics Co 7117 Santa Monica Blvd Los Angeles 46 Calif H0 9-3052
Hansen Mfg Co R R 1 Princeton Ind FU 5-3415
Hanson-Gorrill-Brian 85 Hazel St Glen Cove NY GL 4-7300
Harder Co Donald C 3710 Midway Dr San Diego 10 Harder Co Donald C 3710 Midway Dr San Diego 10 Calif AC 2-5240 Hardman Co H V 571 Cortlandt St Belleville 9 NJ PL 9-1242 Hardwick Hindle Inc 40 Hermon St Newark 5 NJ MA 2-8200 Harman-Kardon Inc 520 Main St Westbury LI NY ED 4-1502 Harmon Lichtenstein & Co 26 Broadway New York 4 NY HA 2-8395 Harnischfeger Corp Crystal Lake III Harper Co 10 M 8200 Lehigh Ave Morton Grove III Harnischteger Corp Crystal Lake III
Harper Co H M 8200 Lehigh Ave Morton Grove III
OR 4-3000
Harper Electric Furnace Corp 56 River St Buffalo 2
NY M0-5366
Harper-Leader Inc 1046 S Main St Waterbury 20
Conn PL 6-8164
Harrison Labs 45 Industrial Rd Berkeley Heights NJ
CR 3-0172 CR 3-9123 Harristahl Laboratories 474 E 2 St Brooklyn 18 NY UL 3-2738 Harris Transducer Corp Woodbury Conn CO 3-2116 Harshaw Chemical Co 1945 E 97 St Cleveland 6 Ohio Harsnaw Chemical Co 1945 E 97 St Cleveland 6 Ohio RA 1-8300 Hartford City Paper Co South Spring Blvd Hartford City Ind 691 Hartley Productions Inc 339 E 48 St New York 17 NY EL 5-7762 Hartley Products Co 521 E 162 St New York 51 NY LU 5-4239 125 Beechwood Ave New Hartman Electrical Mfg Co 175 N Diamond St Mansfield Ohio 4219-6
Hart Mfg Co 128 Bartholomew Ave Hartford 1 Conn
JA 5-3491 JA 5-345-Harvey-Wells Electr Electronics Inc North St Southbridge Mars PO 4-4361
Harwood Electronics Co 466 W Surerior St Chicago 10 III WH 3-0465
Harworth Mfg Co 409 El Camino Real Menlo Park Calif DA 3-9965
Hassall Inc John Cantiague Rd Westbury LI NY ED 4-6200 Hastings-Raydist Inc Newcomb Ave Hampton Va 3-6531 Hathaway Instrument Div Hamilton Watch Co 5800 Hathaway Instrument Div Hamilton Watch Co 5800 E Jewell Ave Derver 22 Colo Hauman Instruments Co 70 Coolidge Hill Rd Watertown 72 Mass WA 4-8122 Haveg Industries Inc 900 Greenbank Rd Wilmington 8 Dela WY 8-2271 Hawley Products Co N 1 Ave St Charles III Haydon Co A W 232 N Elm St Waterbury 20 Conn PL 6-4481 Haydon M 9-3158 Mfg Co 245 E Elm St Torrington Conn HU Haydon Switch Inc 536 S Leonard St Waterbury Conn Haydon Switch Inc 536 S Leonard St Waterbury Conn PL 6-7441
Haydu Electronic Products 1426 W Front St Plainfield NJ 7-1500
Hays Corp Michigan City Ind TR 2-5561
Hays Mfg Co 12 & Liberty Sts Erie Pa 2-3225
Hayward Scientific Glass Corp 217 N Magnolia Ave Whittier 1 Calif OX 5-8213
Healy-Ruff Co 2255 University Ave St Paul 14 Minn MI 6-2701
Heath Co 375 Territorial Rd Benton Harbor Mich WA 5-0051
Heiland Div Minneanolis-Honeywell 5200 F Evans Ave wwA 3-UUS1
Heiland Div Minneapolis-Honeywell 5200 E Evans Ave
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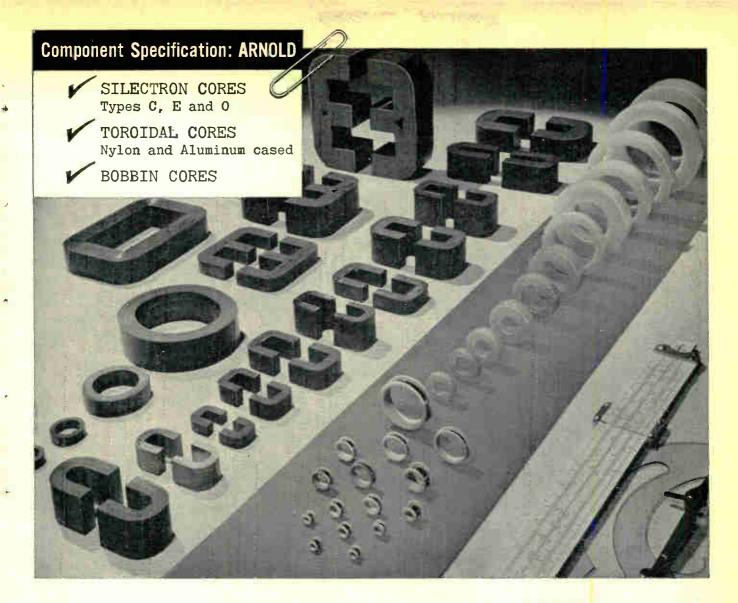
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(Continued on page 404)



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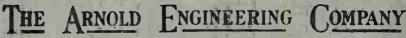
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I-T-E Circuit Breaker Co Special Products Div 601 E Erie Ave Philadelphia 34 Pa GA 6-5700
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Md OL 4-8100 Jacobson Nut Mfg Corp Box 177 Kenilworth NJ MU 6-0200

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JaMac Products Co 8845 N E Sandy Blvd Portland
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Jan Hardware Mfg Co 75 N 11 St Brooklyn 11 NY EV 7-3541
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Jarvis Electronics Corp 1140 Cherry St Winnetka III WI 6-1255
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Jose 8 Calif CY 2-4025
Jensen Industries Inc 7333 Harrison St Forest Park
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Jerrold Electronics Corp 23 & Chestnut Sts Phila-delphia 3 Pa LO 4-0707 Jersey Specialty Co Burgess Pl Mountainview NJ LI 4-0784

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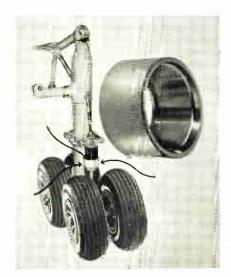
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(Continued on page 406)



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Kimble Glass Co Sub Owens-III Glass Co P O Box 1035 Toledo 1 Ohio CH 2-6543
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King Lab Inc 2645 S 2 St W Salt Lake City 15 King Lab Inc 2645 S 2 St W Salt Lake City 15 Utah
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III BE 7-0060
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56 NY IN 1-8500 Lambda Electronics Corp 11-11 131 St College Point 56 NY IN 1-8500
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La Moree C D 2433 Birkdale St Los Angeles 31 Calif CA 5-5666
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Lancaster Glass Corp Lancaster Ohio OL 3-0311

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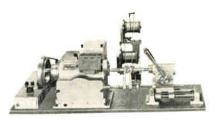
Land-Air Inc 7444 W Wilson Ave Chicago 31 III UN

7-7550 Landis & Gyr 45 W 45 St New York 36 NY JU 6-4644 6-4644
Landsverk Electrometer Co 550 W Garfield Ave Glendale 4 Calif CI 1-2954
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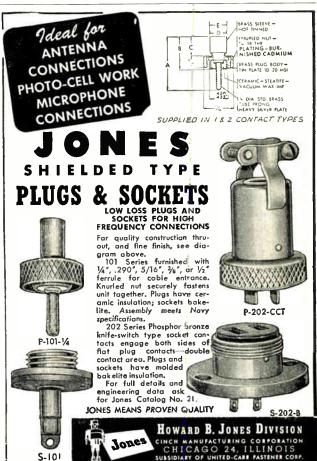
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Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ FII 1-2828

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Mackay Readio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ FII 1-2828

Macka Electric Devices Inc 48 Glenside Ave Wyncote Pa TU 4-8123

Mack Electronics Div Mack Trucks 40 Leon St Boston 15 Mass HI 5-5649

Mack Electronics Div Mack Trucks Inc 1120 S 2 St Plainfield NJ 5-4600

Mack Electronics Div Mack Trucks Inc 1120 S 2 St Plainfield NJ 5-4600

Macked & Hanopol 10 Roland St Charlestown 29

Mass MO 6-2171

Macon Electronics Box 56 Warrensburn III 2411

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NY HY 1-3480

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NY OR 4-4320

Magnadyne Corp 84 S Water St Byram Conn JE 1-8064 1-8064 Magna Electronics Co 9810 Anza Ave Inglewood 1 Calif OR 8-5675 Magnaflux Corp 7300 W Lawrence Ave Chicago 31 III UN 7-8000

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2-2177 Bldg 2-3405 2-1130 UN 7-8000 Magnasync Mfg Co 5546 Satsuma Ave N Hollywood Calif ST 7-5493 Magnatran Inc Box 211 Kearney NJ KE 2-6633 Magnavox Corp 2131 Buetner Rd Ft Wayne 4 Ind Magnacessories Box 6960 Washington 20 D C LO 7.1382 NY 61-541

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2-1165 2-1165
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Majestic Int'I Corp 79 Washington St Brooklyn 1 NY
UL 2-6000
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NY MA 4-2557
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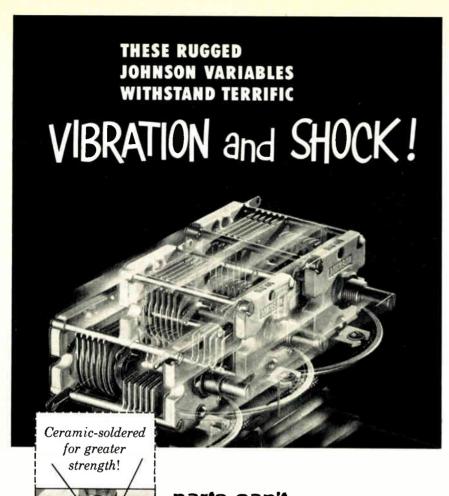
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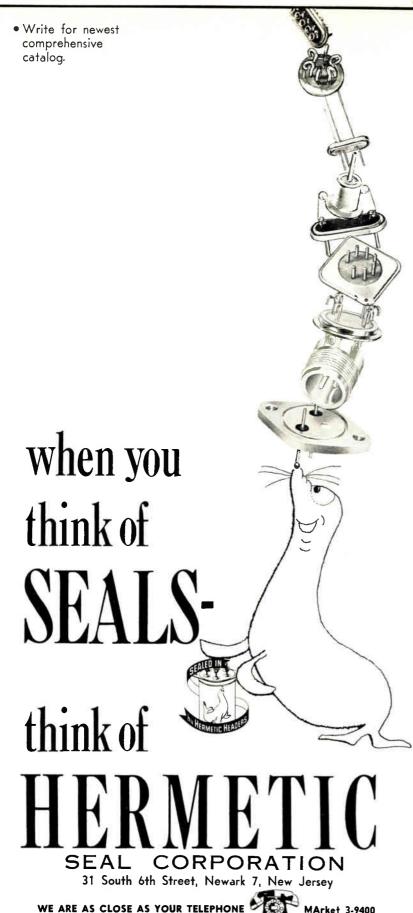
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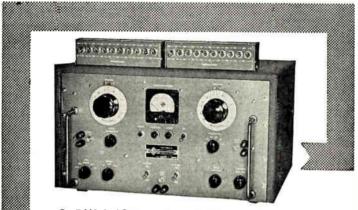
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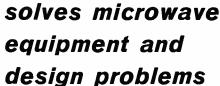
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500 C.P.S. at 10Gs Vibration: 15Gs

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 Available in S-Band or L-Band models or to your specifications.







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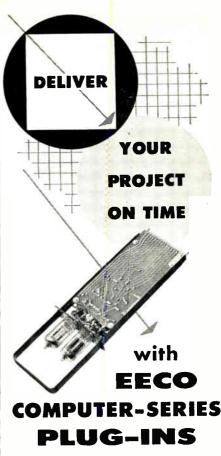
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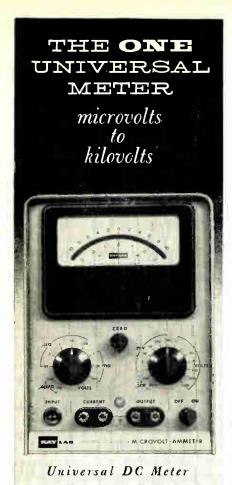
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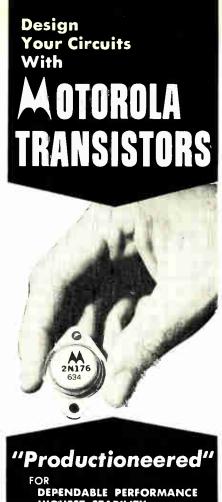
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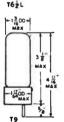
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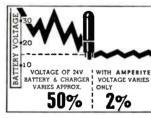
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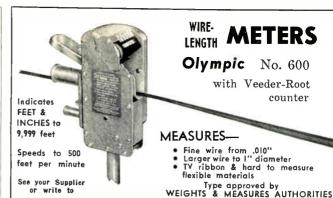


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Individual inspection and double-checking

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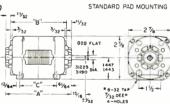


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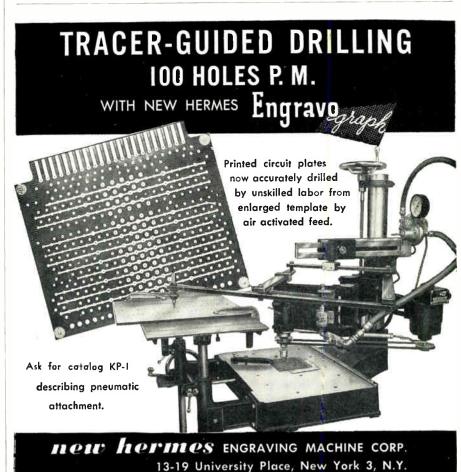
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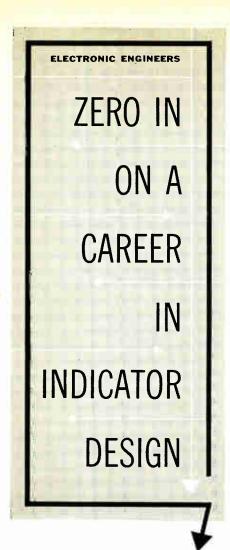
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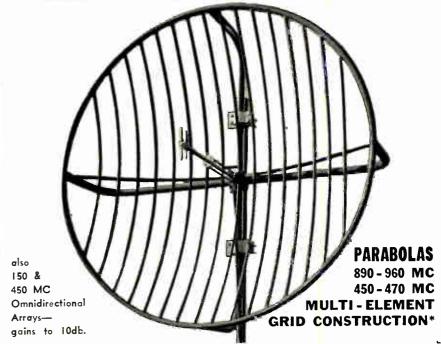
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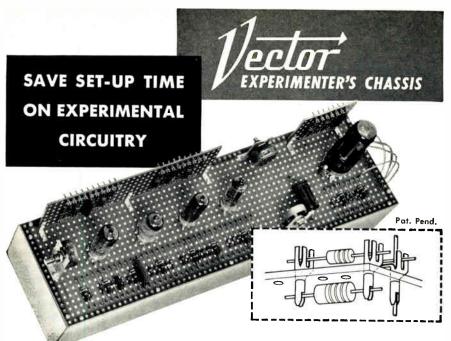


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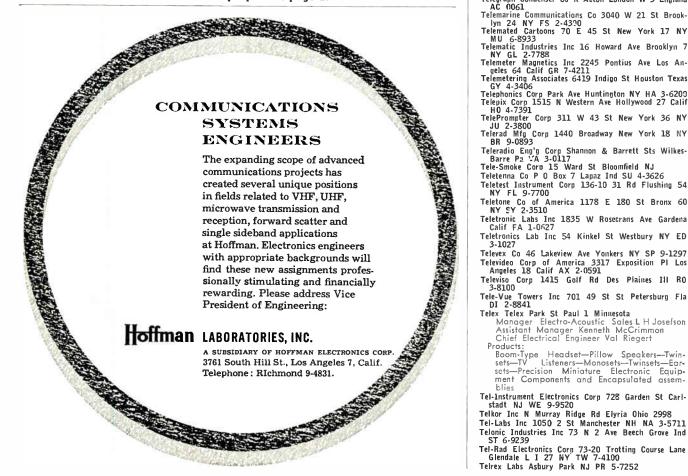
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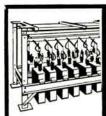
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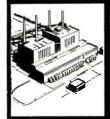
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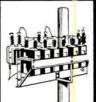


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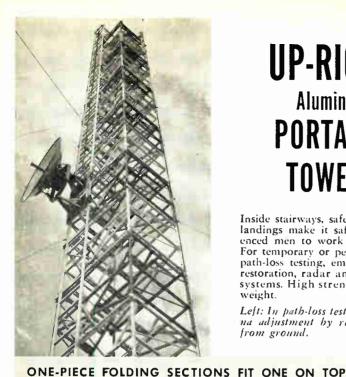
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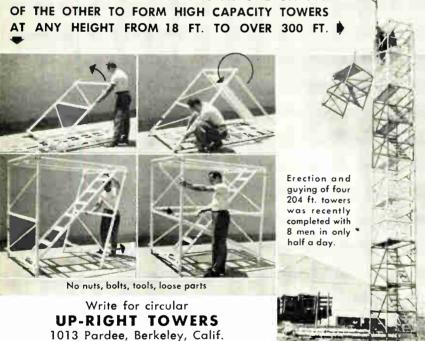
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Titchener & Co E H 67 Clinton St Binghamton NY 4-4354

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Toman & Co E 8700 W 47 St Lyons III LY 3-3501
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Tower Construction Co 2700 Hawkeye Dr Sioux City
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Transdyne Corp 7337 Grand Ave Maspeth 78 NY Transelectric Mfg Co Hopewell Rd Oxford Pa 0X 265
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Transicoil Corp Worcester Pa JU 4-2421
Transistor Commonents Co 301 Oakwood Ave E Aurora NY CY 5236
Transitron Electronic Corp 168 Albion St Wakefield Mass CR 9-4500
Transitron Inc 186 Granite St Manchester NH NA 3-8896
Trans-Lux Corp 625 Madison Ave New York 22 NY

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Trans-Lux Corp 625 Madison Ave New York 22 NY PL 1-3110
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Tresco Inc 3824 Terrace St Philadelphia 28 Pa IV 3-1383

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Triad Transformer Corp 4055 Redwood Ave Venice
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Trico Fuse Mfg Co 2948 N 5 St Milwaukee 12 Wisc
C0 4-3410
Tricon Mfg Co 8012 Wallace St Chicago 20 III AB
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Tricraft Products Corp 1535 N Ashland Ave Chicago 22 III AR 6-2013
Tri-Dex Electronics P O Box 1207 Lindsay Calif Tri-Ex Tower Corp 127 E Inyo St Tulare Calif 6-3411
Trilsch Inc John D P O Box 14201 Houston 21 Texas RE 4-2545
Trimm Inc 400 W Lake St Libertyville III LI 2-3700
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Trio Labs Inc 4025 Merrick Rd Seaford NY SU 5-5030
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Trion Inc 1000 Island Ave McKees Rocks Pa FE
1-3300 Triplett & Barton 831 N Lake St Burbank Calif VI

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Tri-R Instruments 24-15 44 Rd Long Island City 1 NY ST 6-1381

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2-4582 Trott Electronics Inc 412 Smith St Rochester 6 NY HA 6-0150 Tru-Connector Corp 416 Union St Lynn Mass LY

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Angeles 38 Calif HO 4-1202
Tubular Rivet & Stud Co Linden St Wollaston 70
Mass PR 3-1776
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2-4200 Tur-bo Jet Products Inc 424 S San Gabriel Blvd San Gabriel Calif CU 3-5191 Turner Brass Works 821 Park Ave Sycamore III 4545 Turner Co 909 17 St N E Cedar Rapids Iowa EN 3-8144

J-0144 Tthill Pump Co 939 E 95 St Chicago 19 III RE 4-7420

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Tuttle & Kift Inc 1823 N Monitor Ave Chicago 39
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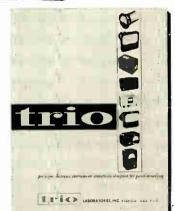
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LY 8-4750
Waitham Screw Co 77 Rumford Ave Waitham 54
Mass TW 3-5830
Waitham Watch Co 221 Crescent St Waitham 54
Mass TW 3-4000
Walton Tool & Die Co 2707 Empire Ave Burbank
Calif VI 9-1914
Walworth Co 60 E 42 St New York 17 NY MU
2-7060
Wann Labs Tre 37 Hurley St Cambridge 41 Mass

Wang Labs Inc 37 Hurley St Cambridge 41 Mass UN 4-8380 Wappler Inc 27-10 Astoria Blvd Long Island City 2 NY RA 8-8831

NY RA 8-8831
Ward Leonard Electric Co Mt Vernon NY MO 4-1000
Ward Products Corp 1148 Euclid Ave Cleveland 15
Ohio MA 1-4610
Warner Electric Brake & Clutch Co Industrial Div
Beloit Wisc DU 9-2211
Warren Corp 2901 Brighton Rd Pittsburgh 12 Pa
PO 6-7757
Warren Corp J C 21 Hanse Ave Freeport NY FR
8-4441 8-4441 Warren Mfg Co Newtown Rd Littleton Mass HU 6-3511

6-3511 Warren Plastics Corp Warren Pa 3325 Warren Wire Co Pownal Vt VA 3-7321 Warrick Co Charles F 1964 W 11 Mile Rd Berkley Mich JO 4-6667

Mich JO 4-6667
Warsaw Coil Co Segal St Warsaw Ind 490
Warwick Mfg Corp 7300 N Lehigh Ave Chicago 31
Ill SP 7-6400
Wassco Electric Products Corp 204 S Larkin Ave Joliet Ill 3-9366
Waterbury Pressed Metal Co 300 Chase Ave Waterbury 14 Conn PL 4-6189
Waterman Products Co 2445 Emerald St Philadelphia 25 Pa GA 6-8600
Waters Conley Co Rochester 1 Minn
Waters Mfg Inc Boston Post Rd Wayland Mass TW 3-9020
Watlow Collectric Mfg Co 1376 Fernuson Ave St Louis

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14 Mo PA 1-7887
Watson Mfg Co 3700 Taylor St Jamestown NY 7-191
Waugh Eng'g Co 7842 Burnet Ave Van Nuys Calif
ST 3-1055

Waveforms Inc 333 6 Ave New York 14 NY WA 9-2795 Waveguide Inc 14837 Oxnard St Van Nuys Calif ST 6-0771

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Waveline Inc Passaic Ave Caldwell NJ CA 6-5785
Wave Particle Corp P 0 Box 252 Menlo Park Calif
EM 8-1579
Wax Corp of America 21-29 Dunham Pl Brooklyn 11
NY EV 8-4400
Weathers Industries Div Advance Industries 66 E
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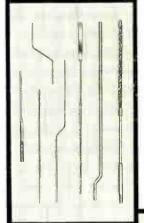
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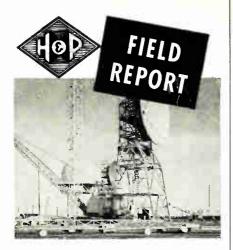


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Call or write for quotations on your specific requirements

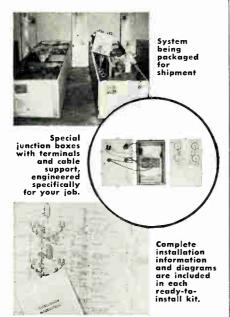
27 Wright Street, Newark 5, New Jersey Circle 269 on Inquiry Card, page 201



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Westbury Electronics Inc 300 Shames Dr Westbury
NY ED 4-8300
West Coast Electrical Mfg Corp 233 W 116 Pl Los
Angeles 61 Calif P 5-1138
West Coast Electronics Co 9261 W 3 St Beverly
Hills Calif BR 2-0383
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Western Instrument Co 826 N Victory Blvd Burbank Calif VI 9-3013
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Western Radiation Lab 1107 W 24 St Los Angeles 7
Calif RI 7-8355
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Westfield Mass LO 2-3614
Westinghouse Elec Co Air Arm Div Friendship Int'l
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Westinghouse Electric Corp Box 284 Elmira NY
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Westinghouse Electric Corp P 0 Box 868 Pittsburgh 30 Pa EX 1-2800
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West Instrument Corp 4363 W Montrose Ave Chicago 41 III PA 5-1007 Westlab Electronics Inc 2475 Central Ave Yonkers NY

SP 9-6400

Westlake Plastics Co 133 W Lenni Rd Lenni Mills Pa ME 6-5170 Westline Products Div Western Lithograph Co 600 E 2 St Los Angeles 54 Calif TR-2641

West Michigan Sound Co 1932 Peck St Muskegon Mich 2-5910

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Wheeler Labs Inc 122 Cutter Mill Rd Great Neck NY HU 2-7876

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Frequency Range: 100 Kc to 4.5 Mc. Price - Oscillator Unit (Head) only \$98.50 with Power Supply \$168.00



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Frequency Range: 420 Mc to 940 Mc. Price - Oscillator Unit (Head) only \$128.50 with Power Supply \$198.00



Measurements' Megacycle Meter is now available in a choice of three oscillator heads providing frequency range coverage from 100 Kc to 940,000 Kc. Thus, the utility of this versatile instrument has been extended, making it, more than ever, indispensable to anyone engaged in electronic work; engineer, serviceman, amateur or experimenter.



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#### **Doppler Navigation**

(Continued from page 122)

mine drift angle with a fixed 2-beam system by measuring the Doppler frequency shift associated with each antenna beam. However, the drift angle must be calculated from the data rather than coming directly from a null measurement.

It is suggested by the above discussion that there are many ways of measuring the desired quantities and that there are many pros and cons with respect to various proposed instrumentation. Of course, any individual or group interested in using Doppler radar equipment must obtain a satisfactory answer as to the merits of each of the several ways of performing the measurement.

#### Computers

We have limited our discussion to the basic sensing element of an autonavigator system, namely the Doppler radar drift angle and ground speed measurement equipment. If these measurements can be made, it is apparent that the information can be combined with heading information to provide continuous dead reckoning, thus presenting a continuous display of position in any desired coordinate system.

One interesting program which has made extensive use of the AN/APN-81 Doppler equipment is the USAF "Jet Stream Project," designed to explore the characteristics of very fast air currents high above the earth.

#### Avalanche Flow Lines

(Continued from page 102)

est are shown in Figs. 3, 4, and 5, and the pertinent results of the analyses are given below:

$$\left( I_{E} = 0, M_{E} = 1, \text{ and } V_{C} < -\frac{kT}{q}. \right)$$

$$I_{C} = -\left( 1 - \alpha_{I}\alpha_{N}M_{C} \right) M_{C} I_{CS} = -M_{C} I_{CO}.$$
(13)

$$\left(V_{\rm E} = 0, M_{\rm E} = 1, \text{ and } V_{\rm C} < < -\frac{kT}{q}.\right)$$

$$I_{\rm C} = -M_{\rm C}I_{\rm CS} = \frac{-M_{\rm C}I_{\rm CO}}{1 - \alpha\alpha\kappa M_{\rm C}}.$$
(14)

$$\begin{pmatrix}
I_{E} = -I_{C}, M_{E} = 1, \text{ and } V_{C} < -\frac{kT}{q}.
\end{pmatrix}$$

$$I_{C} = \frac{-(1 - \alpha_{I}\alpha_{N}M_{C}) M_{C}I_{CS}}{1 - \alpha_{N}M_{C}} = \frac{-M_{C}I_{CO}}{1 - \alpha_{N}M_{C}}.$$
(15)

From the above three cases, it can be readily seen that progressively, as the emitter is first allowed to go negative, then held to zero, and then allowed to go positive (relative to the base), transistor action aids the avalanche mechanism causing lower and lower "breakdown" voltages (infinite currents). For example, if  $V_{CA} = 50$  volts, n = 3,  $\alpha_I = 0.75$ , and  $\alpha_N =$ 0.95, the breakdown voltages would approximately occur at-

(Continued on page 438)



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#### (Continued from page 437)

Case	$M_{\mathbf{c}}$	'Breakdown"
I	00	50 volts
II	1.4	33 volts
III	1.05	18 volts

The particular "breakdown" treated have either appeared explicitly in the literature (Cases I and III) (see References 3 and 4) or have been implied (Case II) (see Reference 1). The object herein was but to illustrate the extension of flow line analysis to include avalanche multiplication, and it is evident that at least this one non-linearity does not invalidate the suggested analytical technique.

#### References

1. J. J. Ebers J. L. Moll, "Large-Signal Behavior of Junction Transistors," PROC. IRE, December 1954, pp. 1761-72.
2. R. B. Hurley, "Flow Line Analysis," ELECTRONIC INDUSTRIES, April 1957, pp. 52-54.
3. M. C. Kidd, W. Hasenberg, & W. M. Webster, "Delayed Collector Conduction, A New Effect in Junction Transistors," RCA REVIEW, March 1955, pp. 16-33.
4. S. L. Miller & J. J. Ebers, "Alloyed Junction Avalanche Transistors," BSTJ, September 1955, pp. 883-902.

#### Pepperpot Tube

(Continued from page 107)

symmetrical pencil rays, the enveloping surface of which represents the full electron beam. The diaphragm is cleaned ultrasonically to avoid distortions of the pepperpot image due to blocking dust particles.

The base of the tube is fastened with an epoxyresin, instead of the usual base cement, to avoid loosening due to repeated pushing-on of deflection yokes.

The set-up for pencil-ray testing,4 utilizing the pepperpot tube, is shown schematically in Fig. 4. It consists essentially of the variable high-and-low voltage supplies for the operation of the CRT, a sawtooth generator for driving the deflection yoke, and a pulse generator. Most of this equipment is standard for CRT testing and does not require further description.

The actual testing of a deflection yoke is carried out as follows:

An unfocused, undeflected, low intensity, pulsed beam is used to determine whether the pepperpot diaphragm is completely flooded. If the cathode surface is fully activated, the Maxwellian current distribution in the beam may lead to prohibitively high current intensities (possibility of screen damage) at the normal operating voltages. Increasing the second grid voltage, leads to a larger beam divergence in the gun and reduces the current density for flooding. However, a large beam cross-section will be obtained at the deflection center. Thus, the deflection yoke performs for normal operating conditions slightly better than indicated by the tests described below. This fact serves, however, as a convenient quality safety

Then, the scan is switched on and the dot-raster is displayed on the screen. Fig. 5 shows this condition. (For the sake of clarity some focusing has been utilized for the photograph.)

Next, the magnetic focus lens (preferably an elec-



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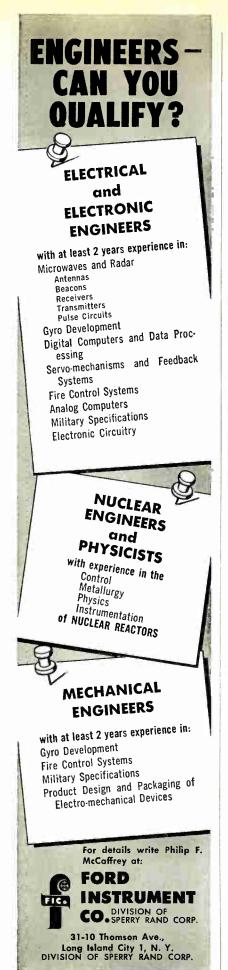
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tro-magnetic version) is adjusted for the circle of smallest confusion (optimum focus) of the pepperpot image in the screen center. (Fig. 1.) In the limiting case, all 7 dots should coincide. Due to possible aberrations in the electron-optical system caused by beam tilt, etc., this condition requires a very accurate gun construction. Often two, or more, partially overlapping dots will be visible. A quality figure, denoting the diameter of the disc of smallest confusion, is attributed to this image.

The same processes are repeated for the edges. In utilizing optimal focusing for the screen center and

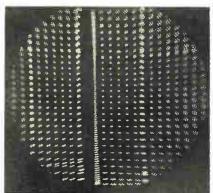


Fig. 5: The dot-raster before focusing.

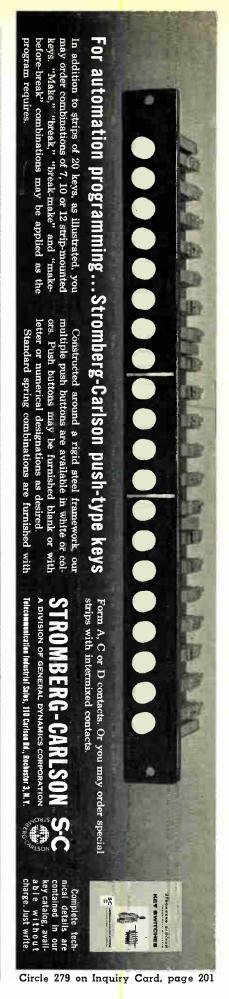
the edges, the influence of the focusing unit on deflection errors is eliminated.

If deflection distortions due to the yoke are present, the diameter of the disc of smallest confusion is larger in the side areas and receives a lower quality figure. The influence of all types of deflection distortions caused by the yoke is expressed, simultaneously, by this figure.

Repeating this process for the circle of largest deflection permits the localization of dissimilarities and field distortions in the yoke. The advantage of this method over dc deflection lies in the possibility to judge rapidly, and with reliable reproducibility, the diameter of the disc of smallest confusion as the image consists of overlapping dots. Only with this system can ac effects due to capacities, core materials, etc., be studied. In a practical yoke, these ac spot distortions may exceed all dc spot defocusing.

A further advantage is the convenient evaluation of the overall performance. Coma, astigmatism, apparent image rotation, and their

(Continued on page 440)

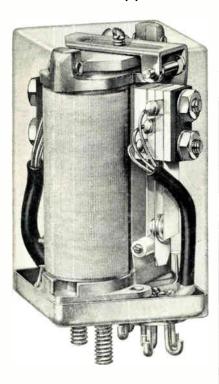


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(Continued from page 439)

orientation with respect to the yoke can be distinguished when the focus unit is adjusted for optimum focus in the screen center (Fig. 1).

#### Other Applications

The pepperpot tube may also be used to test external magnetic centering units. The circle of smallest confusion, in the screen center, is compared with and without centering unit.

Magnetic shunts, between the centering unit and the deflection yoke, can be investigated by comparing the circle of smallest confusion at the edges of the screen with and without the centering unit.

Special CRT's, such as the alphabet tube, sometimes require rotation free magnetic focusing. (Such focusing units consist of 2 consecutive focusing coils wound in a counter rotating manner.) It is possible to check this requirement by observing if rotation of the dot circle occurs as the focus current is varied.

An "apparent rotation" of the image in the side areas of the screen caused by astigmatism of the deflection yoke, may be observed. This effect may also be readily checked by comparing the tilt angle of the dots in the center and the edges.

#### Production Testing

The pepperpot tube is particularly suited for the development of deflection yokes as resulting errors can be displayed readily and traced back to field configurations. The simultaneous display of the distortions over the entire field of view is advantageous in this respect.

A further advantage of the pepperpot design is its adaptability to most CRT types. This enables the component designer to check the individual effect and inter-action of focusing unit, centering magnet, and deflection yoke. Thus, the overall performance can be evaluated under practical conditions.

For production control, the pepperpot tube permits the use of a standardized, simple, and fast test method. Field experience has shown that an inexperienced operator is able to test, with high reproducibility, approximately 10 to 15 times



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as many yokes with the pepperpot method as a skilled operator using the dc deflection method. The adjustments required for these test operations are at a minimum. The observations are carried out without a microscope or any lens arrangement and the price of the tube and the electronic equipment is relatively low.

#### References

1. G. Wendt, "Telefunken Rohre," 15 (1939); G. Wendt, Zs. f. Phys., 118, 593 (1942).
2. Hutter, J. Appl. Phys., 18, 740 (1947).
3. E. Sieminski, Electronics, 25, 10, 122 (1952).
4. C. S. Szegho, Tele-Tech, p. 35, May 1950

\*The variations of the image plane curvature due to axial shift of the deflection center are neglected here.

\*\*It ought to be pointed out that the yoke may display additional distortions under ac operation.

#### Poles and Zeros

(Continued from page 115)

made, it is usually convenient and sufficient to make simplifying assumptions and study circuit performance with only one or two variables. In this case, the resistance of the inductor is neglected since it's effect was microscopic and the output resistor and capacitor are each assumed 10% high. The transfer function now becomes

$$\begin{split} \frac{e_o}{e_1} &= \frac{1}{1.1 \text{ LC}^2 R} \left\{ p^3 + \frac{1.825}{RC} p^2 \right. \\ &+ p \left[ \frac{1.91}{LC} + \frac{1}{1.21R^2C^2} \right] + \frac{1.735}{LC^2R} \right\} \end{split}$$

In this case the denominator is not readily factorable as before and numerical values of R, C, and L must be substituted and the cubic solved. The resulting roots are:

p = -1834 and  $p = -904 \pm$ j 1720. These roots and the resulting response are shown on Figs. 6 and 5 respectively.

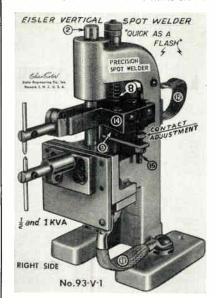
In some cases, it is inconvenient to plot the pole and zero distribution on linear paper. Examples are networks whose response is of interest over a range of three or four decades or a network similar to a double-tuned high Q filter where high accuracy is desired in the response measurement near a narrow pass band. Linear plots would furnish very little information of value in these cases. However, an algebraic solution can be found yielding Z'=Z(1+A) where Z'

(Continued on page 444)

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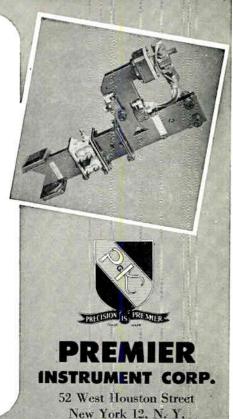
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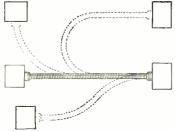


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Circle 286 on Inquiry Card, page 201

(Continued from page 441) is the new transfer function caused by a change in one or more of the network components and (A) is the normalized deviation in the components.

Fig. 7 represents a network with one pair of conjugate poles and a pole on the abscissa. The vectors drawn from the origin to the poles can be resolved into a real part (a) and an imaginary part (b). (c) is the distance to the pole on the abscissa. For variations in the components in the order of 10% or less, the expression for Z' is:

1) 
$$\mathbf{Z}' = \mathbf{Z} \left[ 1 - \frac{4 \left( (\mathbf{a} - \omega) \Delta \mathbf{a} - \Delta \mathbf{a}^2 \right)}{4 \left[ (\mathbf{a} - \omega)^2 + \mathbf{b}^2 \right]} \right]$$

$$\cdot \left[ 1 - \frac{(\mathbf{a} + \omega) \Delta \mathbf{a}}{(\mathbf{a} + \omega)^2 + \mathbf{b}^2} \right]$$

$$\cdot \left[ 1 - \frac{\mathbf{b} \Delta \mathbf{b}}{\mathbf{b}^2 + (\mathbf{a} - \omega)^2} \right]$$

$$\cdot \left[ 1 - \frac{\mathbf{b} \Delta \mathbf{b}}{\mathbf{b}^2 + (\mathbf{a} + \omega)^2} \right]$$

$$\cdot \left[ 1 - \frac{\mathbf{C} \Delta \mathbf{C}}{\mathbf{C}^2 + \omega^2} \right]$$

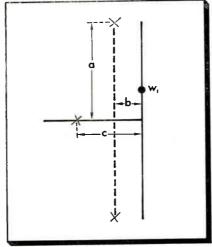


Fig. 7: Representation of a network with one pair of conjugate Poles and a Pole on the abscissa (see text)

where ω is any real frequency multiplied by  $2\pi$ ,  $\Delta$  a is the variation in the imaginary component of the complex pole,  $\Delta b$  the variation in the real component of the complex pole, and  $\Delta c$  is the variation in the pole on the abscissa. Any number of complex poles may be included by multiplying the above expression by the appropriate pair of terms.

In many cases, inspection of the transfer function will give the observer a qualitative idea of how the poles and zeros will shift as component values are changed.

#### Reference

Radio Engineer's Handbook, F. E. Terman, p. 228.

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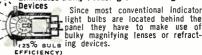
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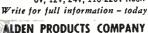
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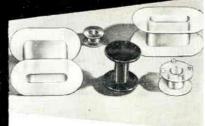




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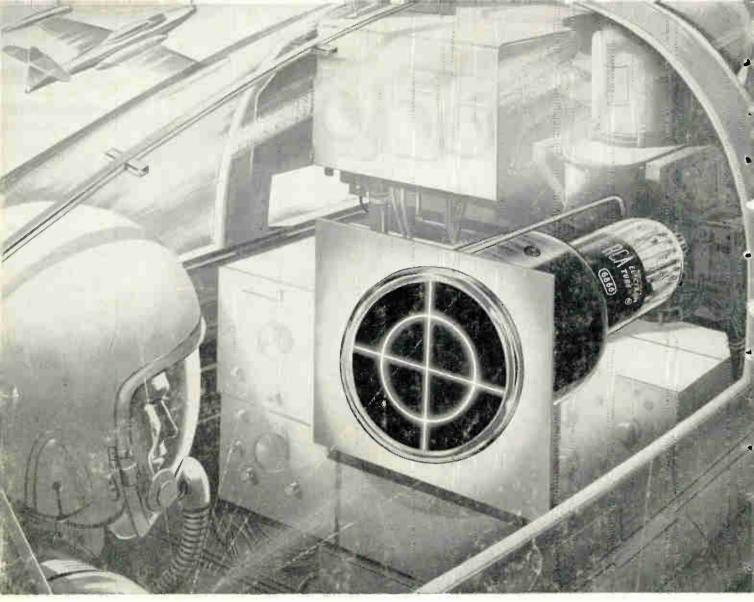
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He "reads" his radar data...

## IN BRIGHT DAYLIGHT

No hood needed for this presentation, because the RCA-6866 Display Storage Tube pictured here produces an average display brightness of 2750 foot-lamberts—brilliant enough to view directly in bright daylight!

In addition to its application in military electronics, RCA-6866 offers many exclusive features of special interest to equipment designers in the field of electronic data processing. For example, RCA-6866 can present non-flickering display of electronic information—for as

long as 60 seconds after writing stops. It can "write" at speeds as high as 300,000 inches per second—fast enough to "freeze" microsecond transients for visual or photographic examination.

Are you working with airplane-cockpit radar—fire-control radar—airport surveillance—transient studies—data transmission, including half-tones—visual communications via narrow-bandwidth transmission? If you are, then don't overlook the unique advantages of the RCA-6866.

For technical bulletin on the 6866, write RCA, Commercial Engineering, Section F-50-Q, Harrison, N. J. For sales information on this and on other RCA display storage tubes now in development...contact the RCA Field Office nearest you.

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