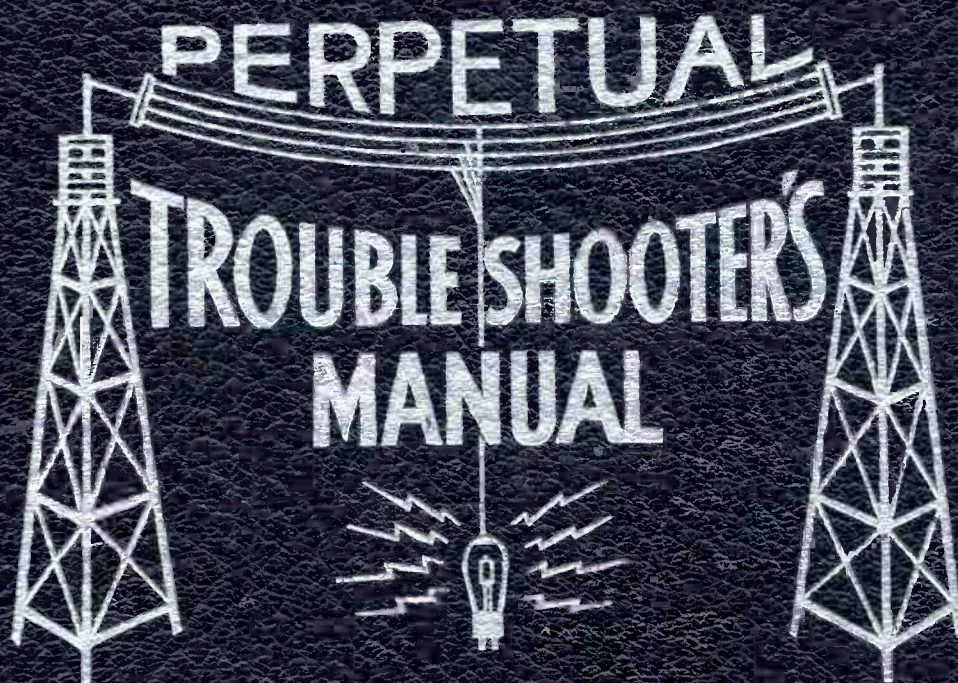


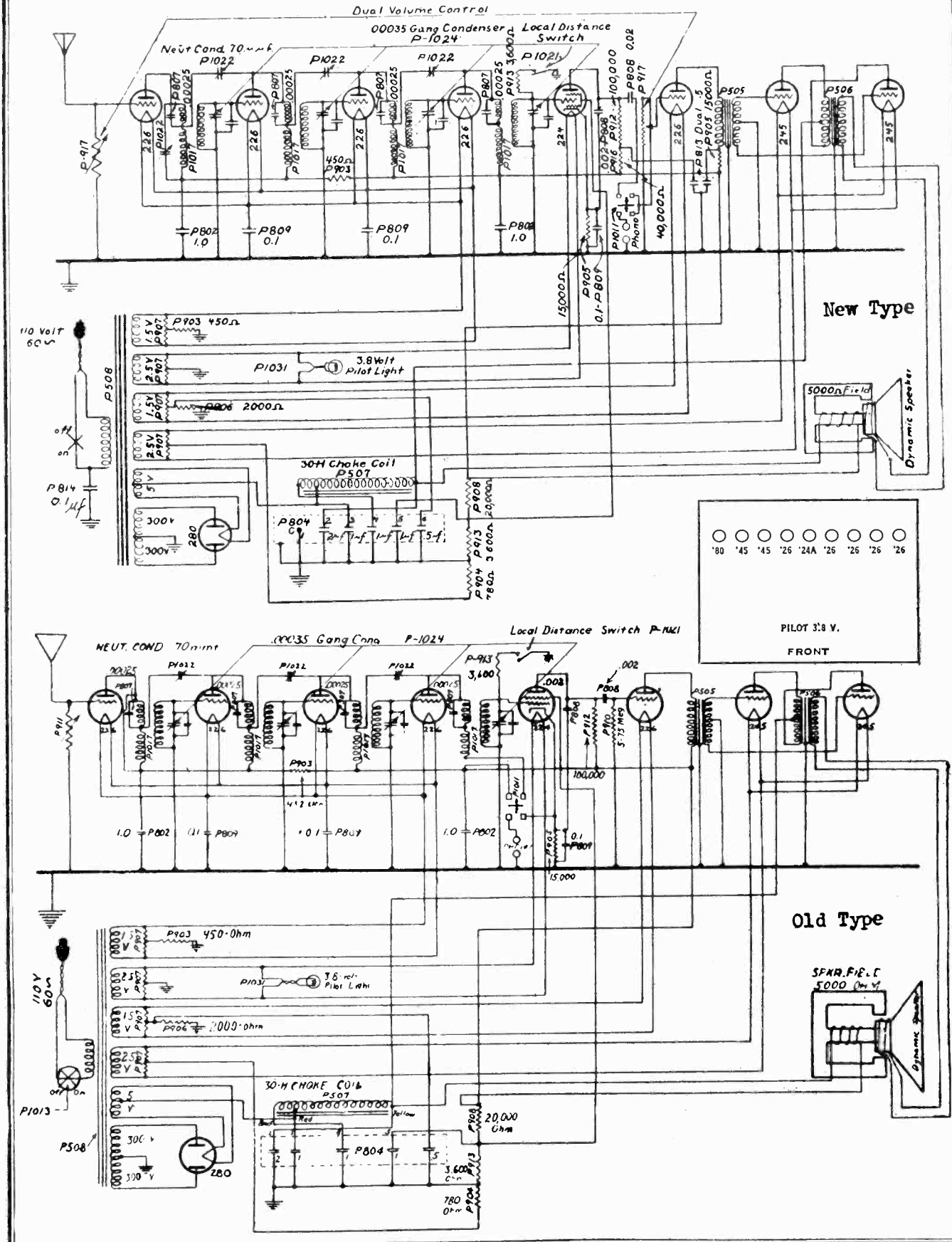
VOLUME I



JOHN F. RIDER

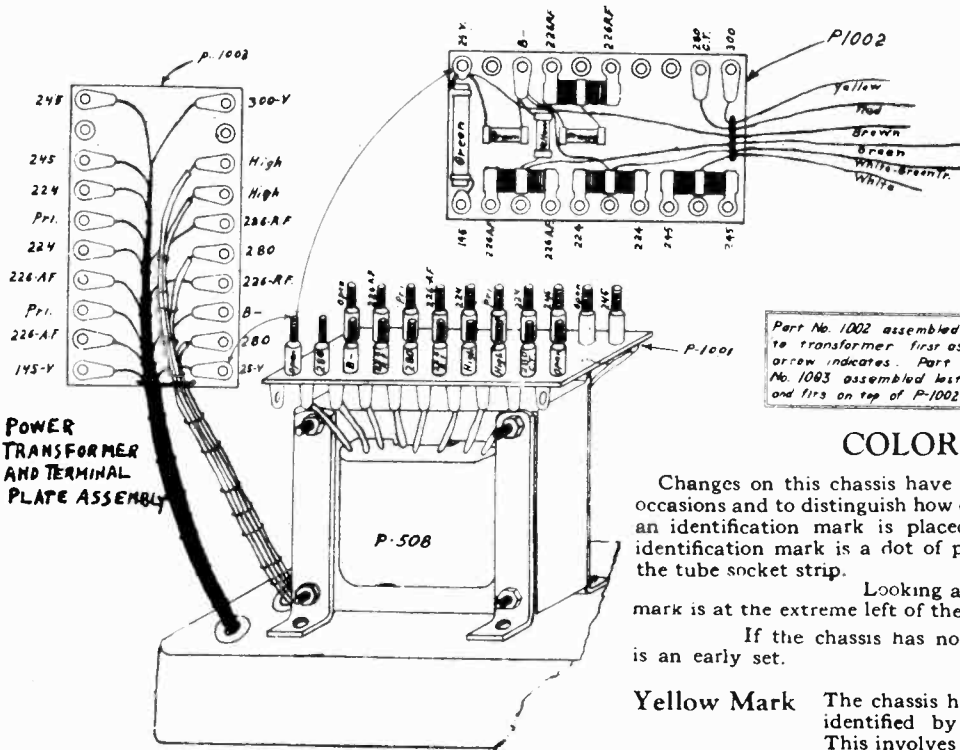
WELLS - GARDNER & CO.

MODEL C,CG Schematic 1st & 2nd Types



**MODEL C,CG
Voltage - Data
1st & 2nd Types**

WELLS - GARDNER & CO.



COLOR CODE

Changes on this chassis have been made on several different occasions and to distinguish how one chassis differs from another, an identification mark is placed on each one changed. This identification mark is a dot of paint found on the end rivet of the tube socket strip.

Looking at the chassis from the back the mark is at the extreme left of the 226 tube socket

If the chassis has no mark it is understood that it is an early set.

Yellow Mark The chassis having the first changes may be identified by the yellow indicating mark. This involves four changes.

1. A "dual volume control" in place of the single type. The new volume control is made in two sections, with five lugs. The section nearest the chassis, having two lugs, operates exactly the same as the single volume control. The section behind the first, having three lugs, is placed in the first audio circuit to reduce the audio amplification and operates in tandem with the antenna volume control.

2. An interchange of position of the two audio transformers. The re-arrangement of the audio transformers has not altered their connections in the circuit.

3. An addition of a "dual half microfarad condenser" and two carbon resistors in the "B" circuit of the detector and first audio tubes. The 40,000 ohm black resistor with one section of the dual condenser is placed in the detector circuit (224) and the 15,000 ohm blue resistor with the other section of the dual condenser is placed in the first audio circuit (226). You will note that the yellow and blue leads in the cable connecting to the terminal strip have been interchanged.

4. A change in the location of the grounding of No. 1 lug on the condenser block. This lug is now grounded to the condenser case with a short piece of bare wire.

Red Mark
(Serial Number 39,000-42,999)

All chassis having a red mark on the rivet of the tube socket strip have all of the changes mentioned above and in addition, have a one-tenth microfarad condenser connected from ground to one side of the 110 volt line

A peculiarity that may be experienced by the addition of this condenser is a loud hum on every station tuned in only when the antenna wire coming from the set is connected to ground. This can be eliminated by reversing the plug in the socket. Also be sure your antenna is not grounded, either by some other set being connected to your aerial or through any other means.

Green Mark
(Serial Number 43,000 and up)

All Chassis with a green mark on the rivet of the tube socket strip contain the above changes and in addition have a change in the "combination phonograph switch" circuit. This changed circuit makes use of only the audio system of the set for phonograph reproduction, whereas the original circuit included the detector tube

The Phonograph, Radio, On, and Off positions of the switch are the same as in the early sets. To obtain maximum volume and best tone quality a pick-up coupling transformer should be used to match the pick-up used.

OPERATING VOLTAGES

Type of Tube	Position of Tube	TUBE IN TEST SET							
		"A" Volts	"B" Volts	Control Grid ("C") Volts	Screen Volts	Screen Current	Cathode Volts	Normal Ma.	Grid Test Ma.
226	1st R.F.	1.35	116	8.5				4.7	8.7
226	2nd R.F.	1.35	116	8.5				4.7	8.7
226	3rd R.F.	1.35	116	8.5				4.7	8.7
226	4th R.F.	1.35	116	8.5				4.7	8.7
224	Det.	2.2	80	1.3	15				
226	1st A.F.	1.4	110	1.0				4.0	5.0
245	2nd A.F.	2.2	232	42				27	32
245	2nd A.F.	2.2	232	42				27	32
280	Rect.	4.6							84

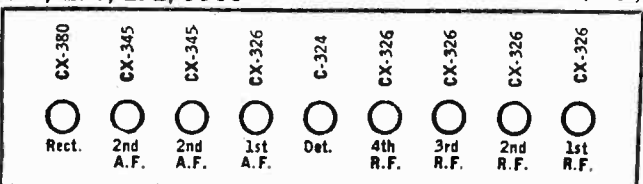
Line Voltage During Test—115 Volts.

REVISION OF OPERATING VOLTAGES

Type of Tube	Position of Tube	TUBE IN TEST SET							
		"A" Volts	"B" Volts	Control Grid ("C") Volts	Screen Volts	Screen Current	Cathode Volts	Normal Ma.	Grid Test Ma.
224	Det.	2.2	75	1.3	15				
226	1st A.F.	1.4	77	1.0				4	5

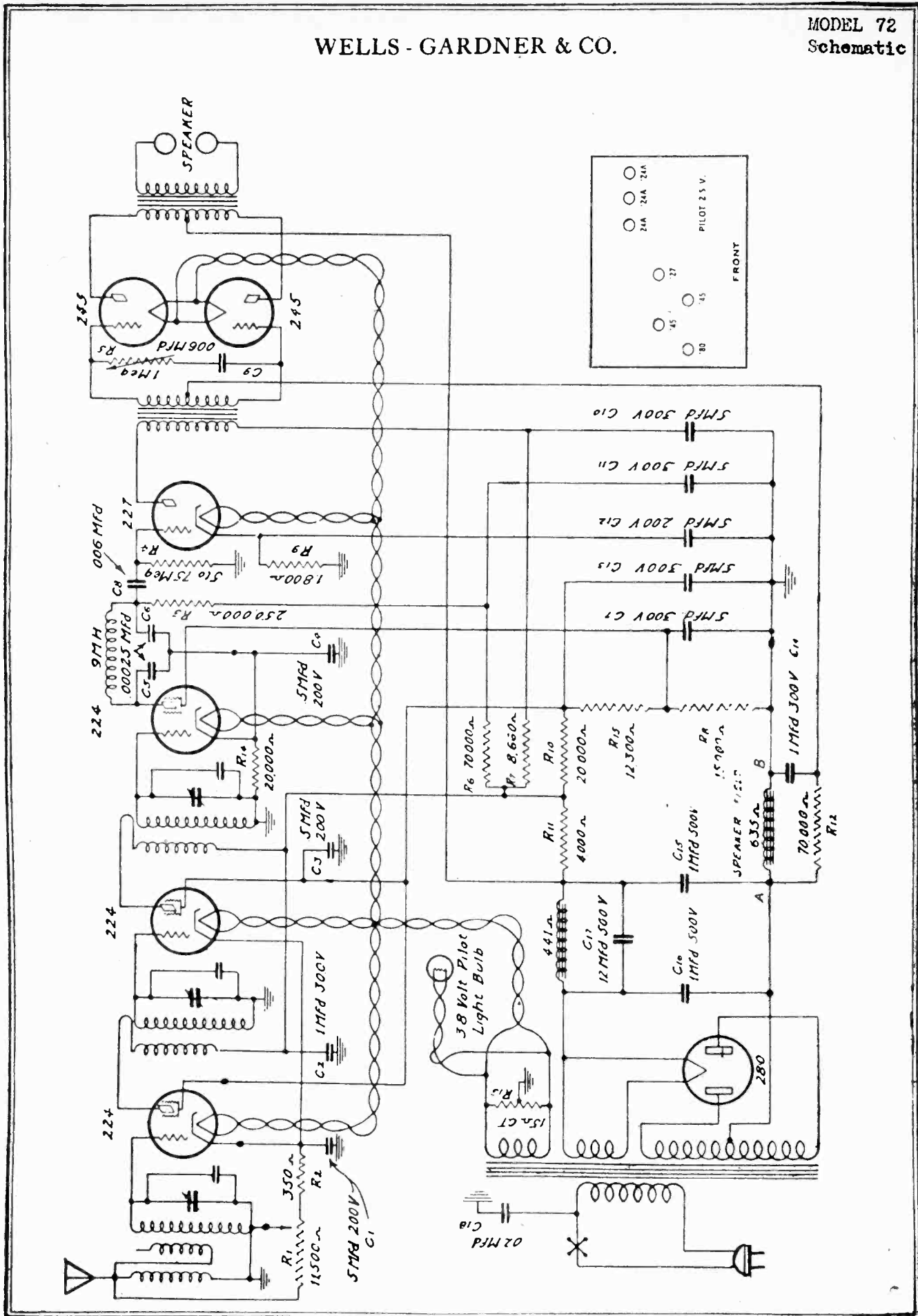
200, 291, 292, 9950

(A.C.)



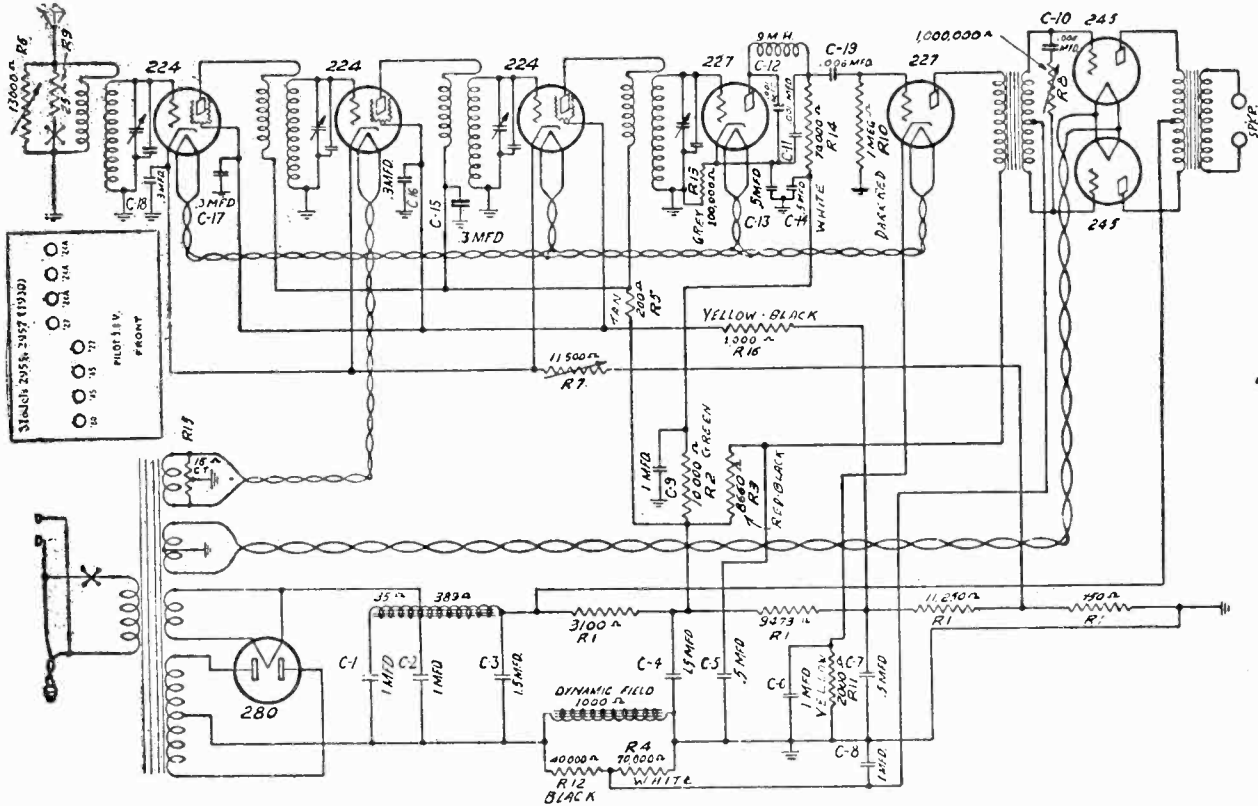
WELLS - GARDNER & CO.

MODEL 72
Schematic

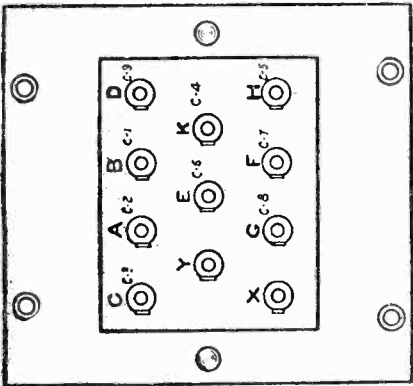


MODEL 80, 82 AC
60 cycle
Schematic
Data

WELLS - GARDNER & CO.



CAPACITY	
CODE	60 CYCLE 25 CYCLE
A	1.0 MF. C2
B	1.0 MF. C1
C	1.5 MF. C3
D	1.0 MF. C9
E	1.0 MF. C6
F	0.5 MF. C7
G	1.0 MF. C8
H	0.5 MF. C5
K	1.5 MF. C4
X	COMMON
Y	COMMON



Filter Condenser (60 and 25 cycle receivers).

FIXED CONDENSERS

Condensers C1 to C9 inclusive are in the filter block. C1, C2, C3, C4, and C7 are in the main filter circuits. C5 bypasses R3, which is the 8,660 ohm resistor in the first audio plate circuit. C6 by-passes R11, the cathode bias resistor on the first audio stage. C8 by-passes the grid bias on the 245 tubes, (obtained through R4 and R12) and C9 bypasses the 10,000 ohm resistor R2 in the detector plate circuit.

C10 and C19 are located on the resistor-condenser terminal strip (See Fig. 4) and are both .006 mfd. moulded condensers. C10 is in the tone control circuit, while C19 is the coupling condenser in the resistance coupled amplifier.

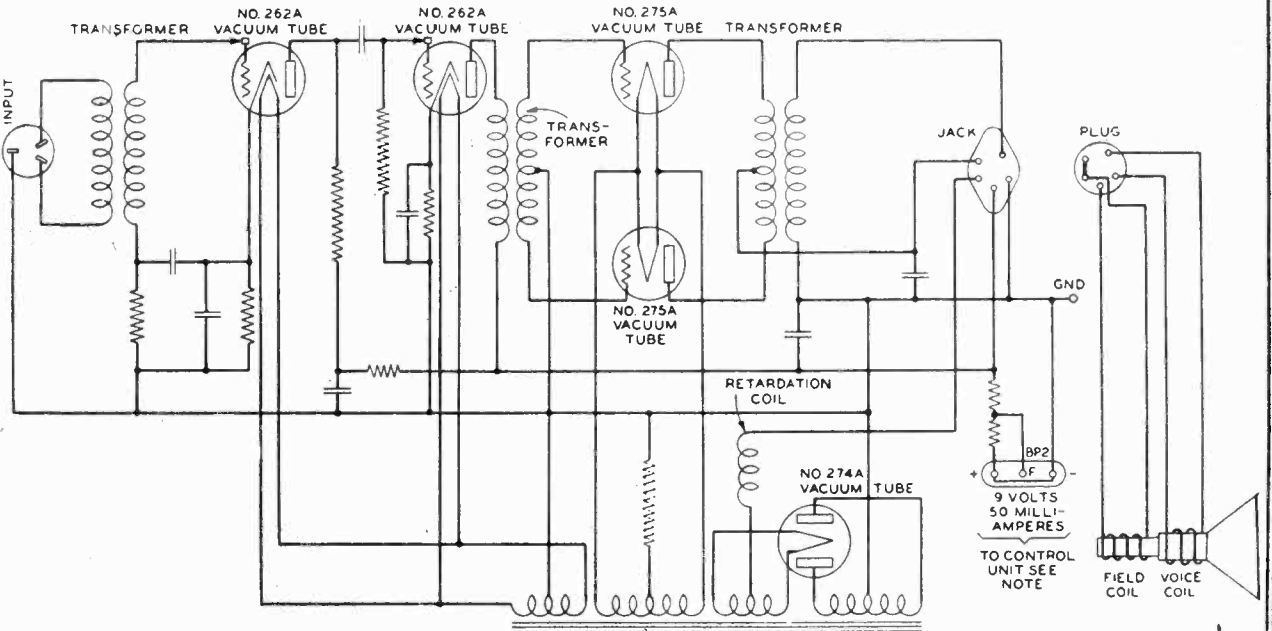
C11 and C12 are .001 mfd. moulded condensers, and are used in the detector plate circuit filter. C13 and C14 are the two units in the dual 1/2 mfd. by-pass condenser.

C15, C16 and C18 are located in the triple 3 mfd. condenser case. C17 is a single .3 mfd. condenser, and is mounted alongside of the triple 3 mfd. condenser case.

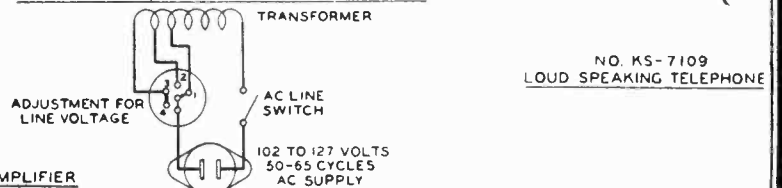
Code Fig. 1	Stock No.	Capacity
C1 to C9 inclusive	80818	9 Mfds. total. Filter block.
C10 and C19	80822	.006 Mfd. White paint spot.
C11 and C12	80821	.001 Mfd. Grey paint spot.
C13 and C14	80826	Dual .5 Mfd. Metal case.
C15, C16, C18	80817	Triple .3 Mfd. Metal case.
C17	80820	.3 Mfd. Metal case.

WESTERN ELECTRIC CO.

MODEL D-95608
MODEL 8-B
MODEL 8-C

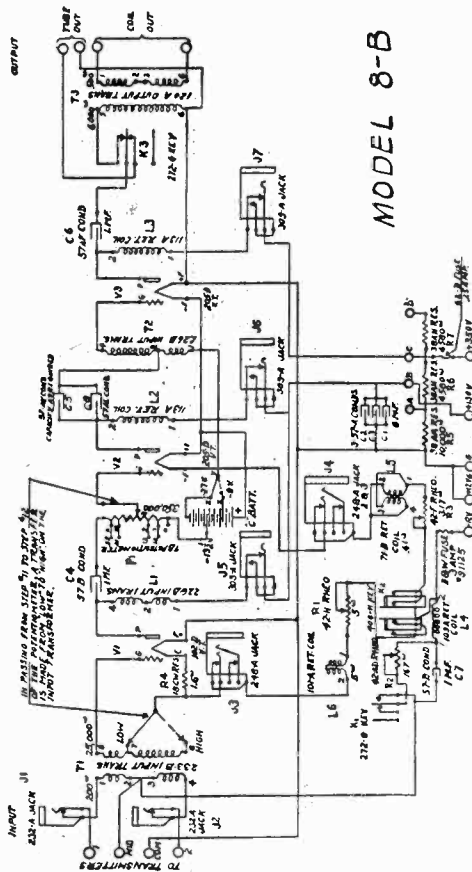


NOTE -
THE STRAP BETWEEN THE + AND - BINDING POSTS ON BP2 SHOULD BE REMOVED ONLY WHEN THESE POSTS ARE CONNECTED TO A CONTROL UNIT FOR SUPPLYING CURRENT TO OTHER APPARATUS

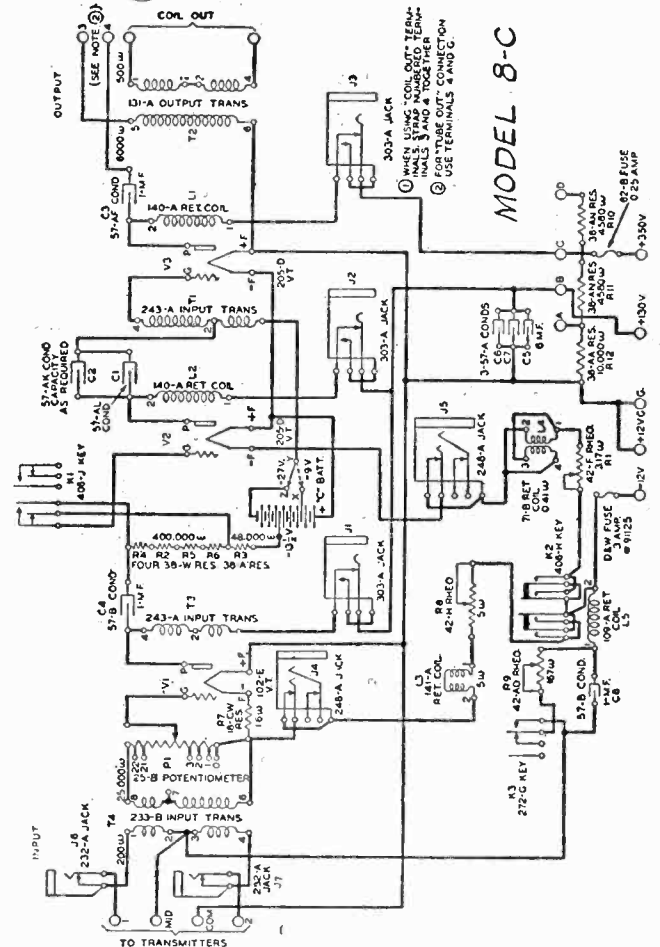


NO. D-95508 AMPLIFIER

NO. KS-7109
LOUD SPEAKING TELEPHONE



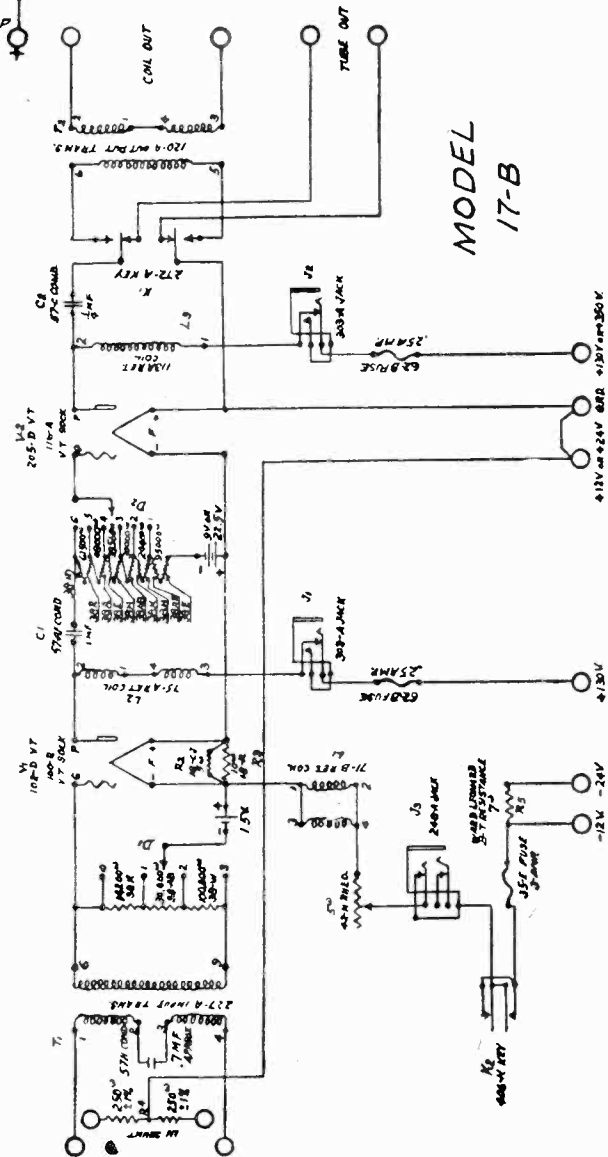
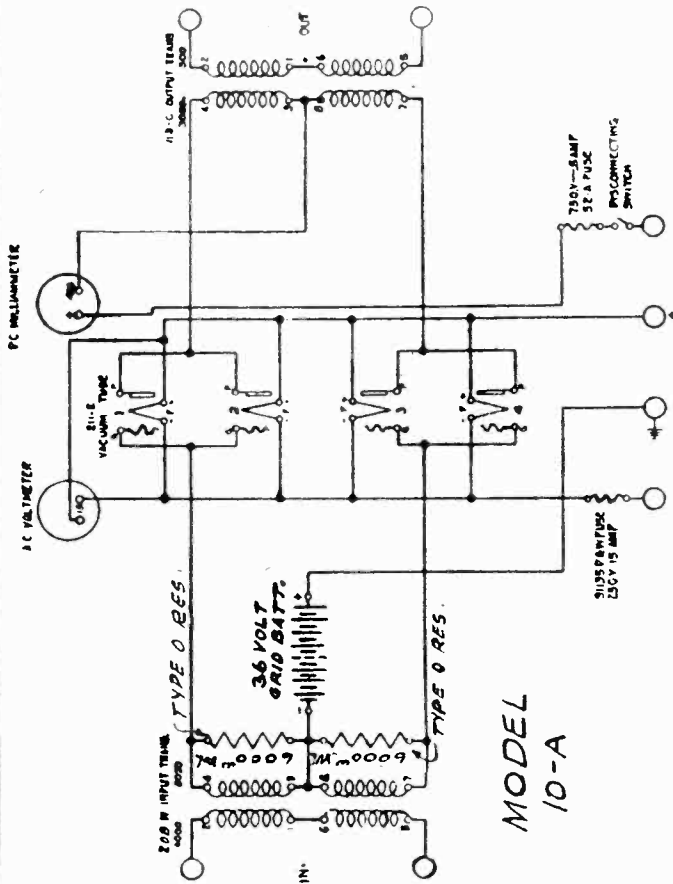
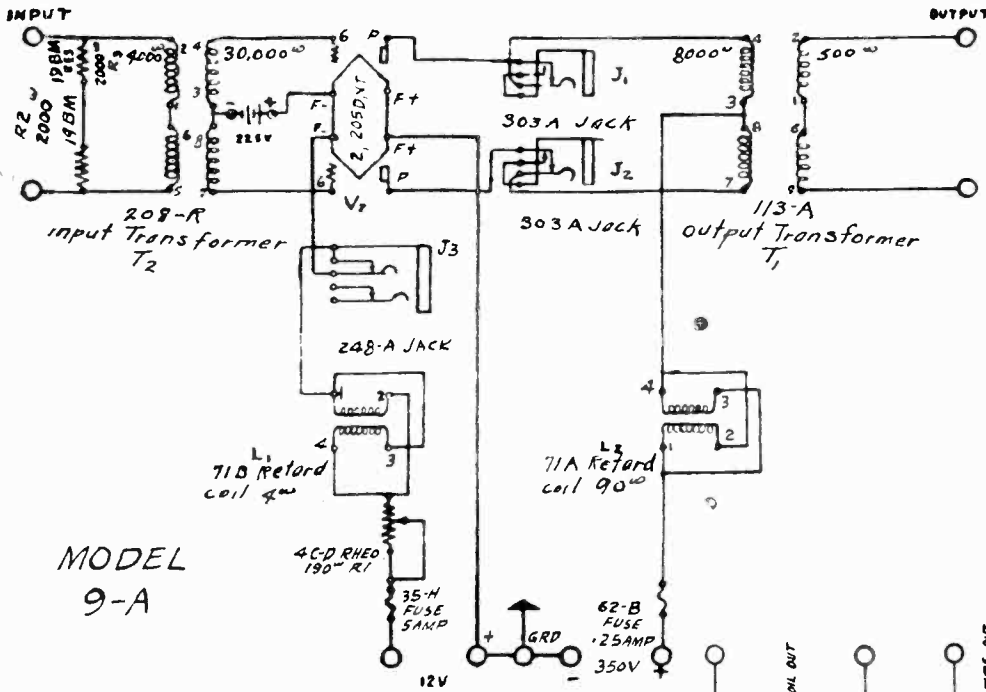
MODEL 8-B



MODEL 8-C

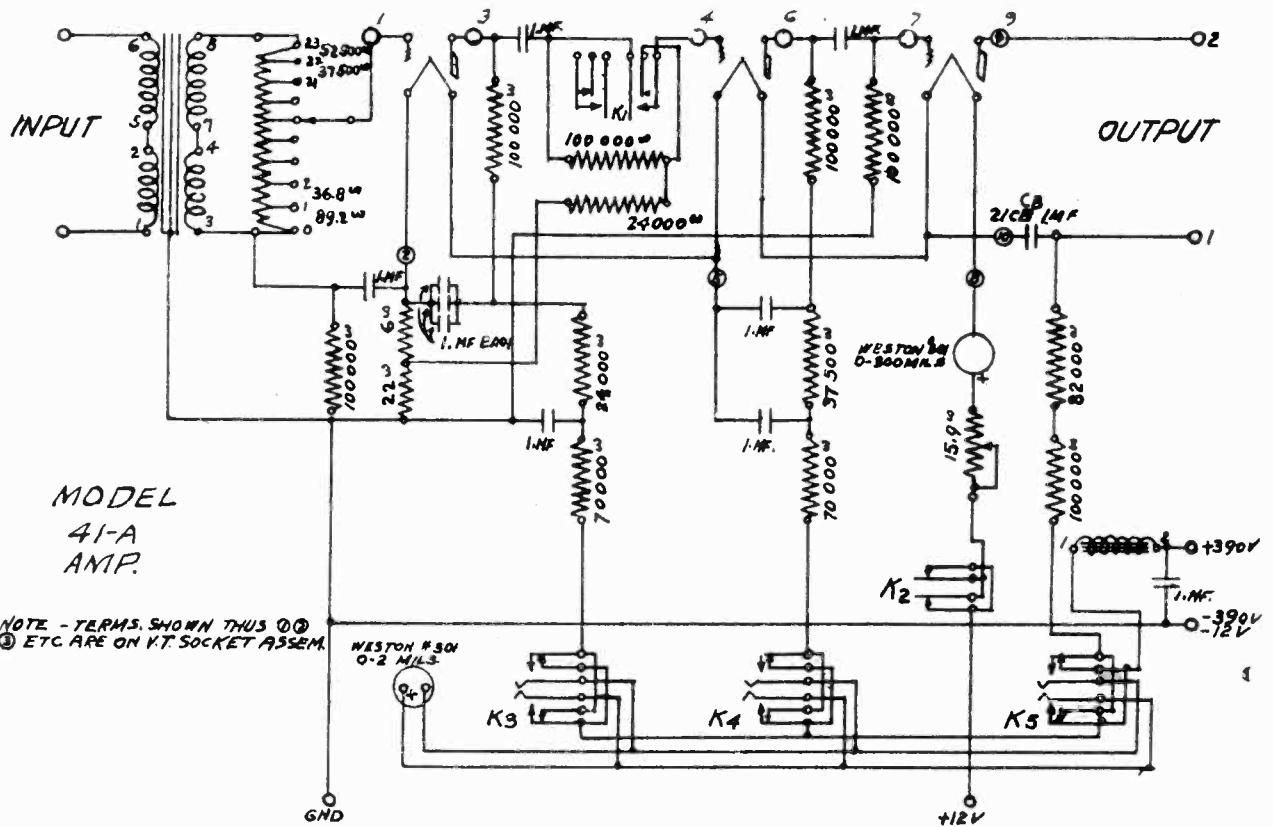
WESTERN ELECTRIC CO.

MODEL 9-A
MODEL 10-A
MODEL 17-B



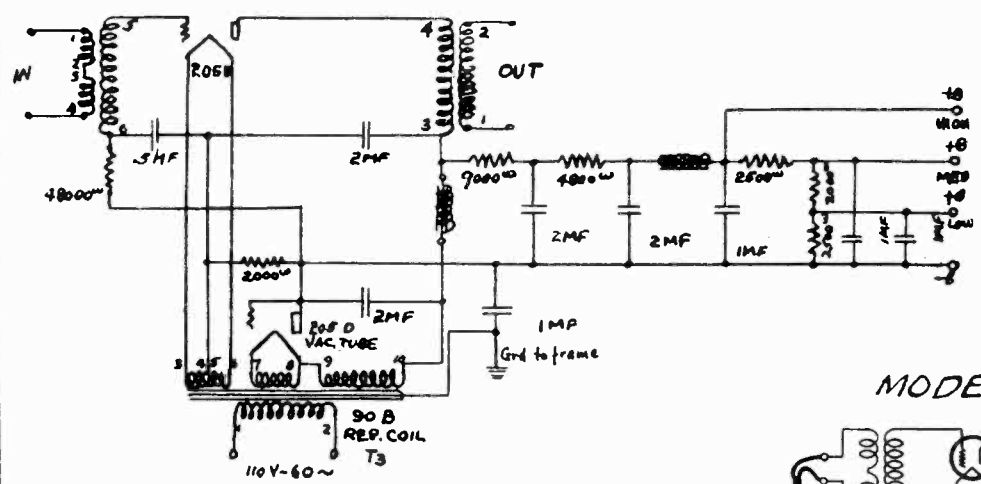
WESTERN ELECTRIC CO.

MODEL 41-A
MODEL 45-A
MODEL 25-B

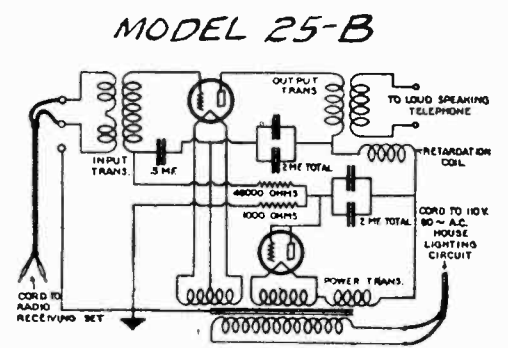


MODEL
41-A
AMP.

NOTE - TERMS SHOWN THUS ⊕ ⊙
ⓐ ETC ARE ON V.T. SOCKET ASSEM.



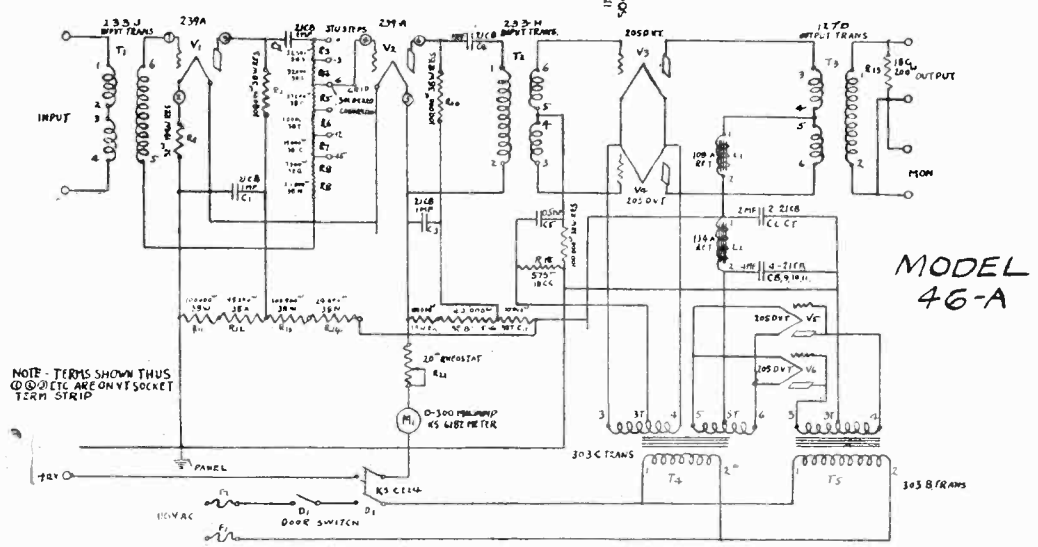
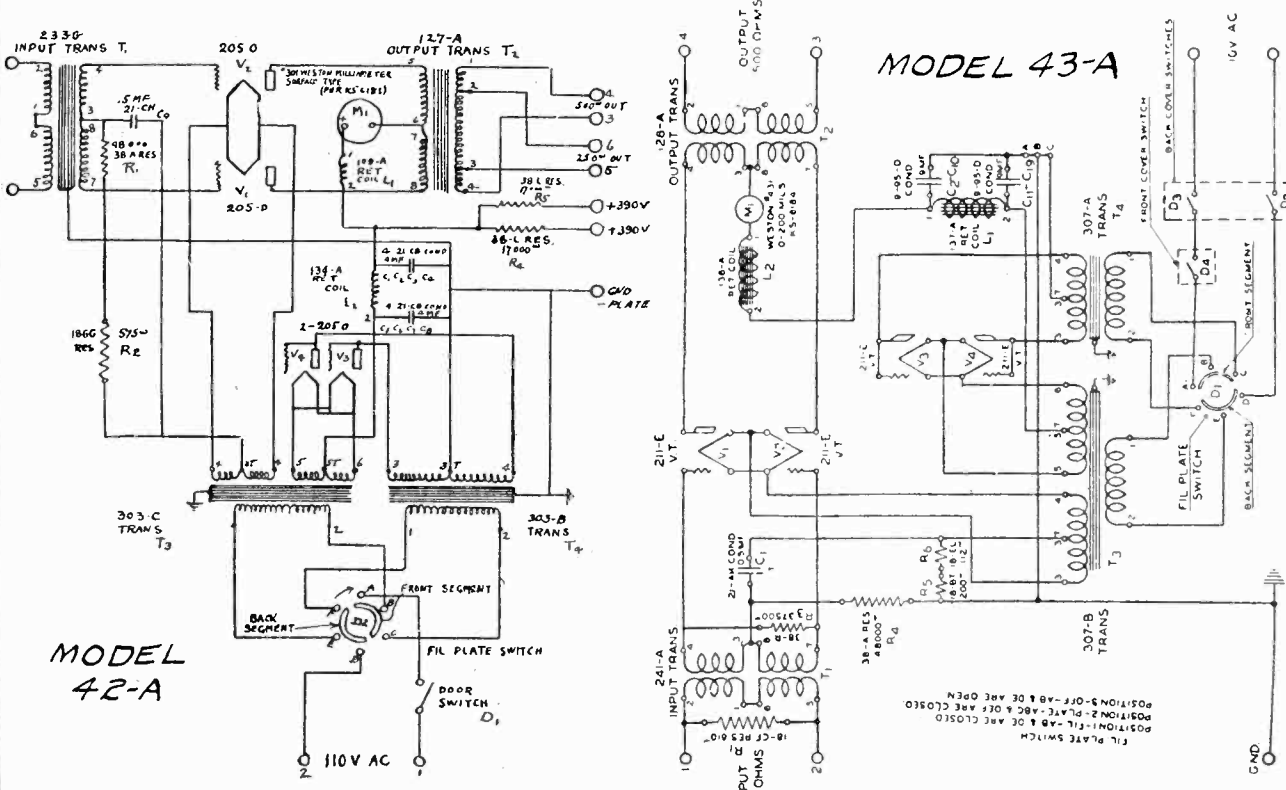
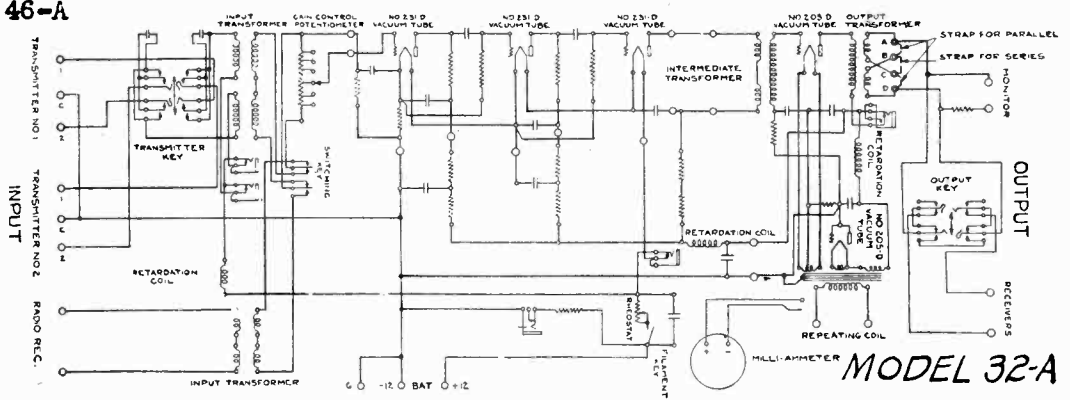
MODEL 45-A



MODEL 25-B

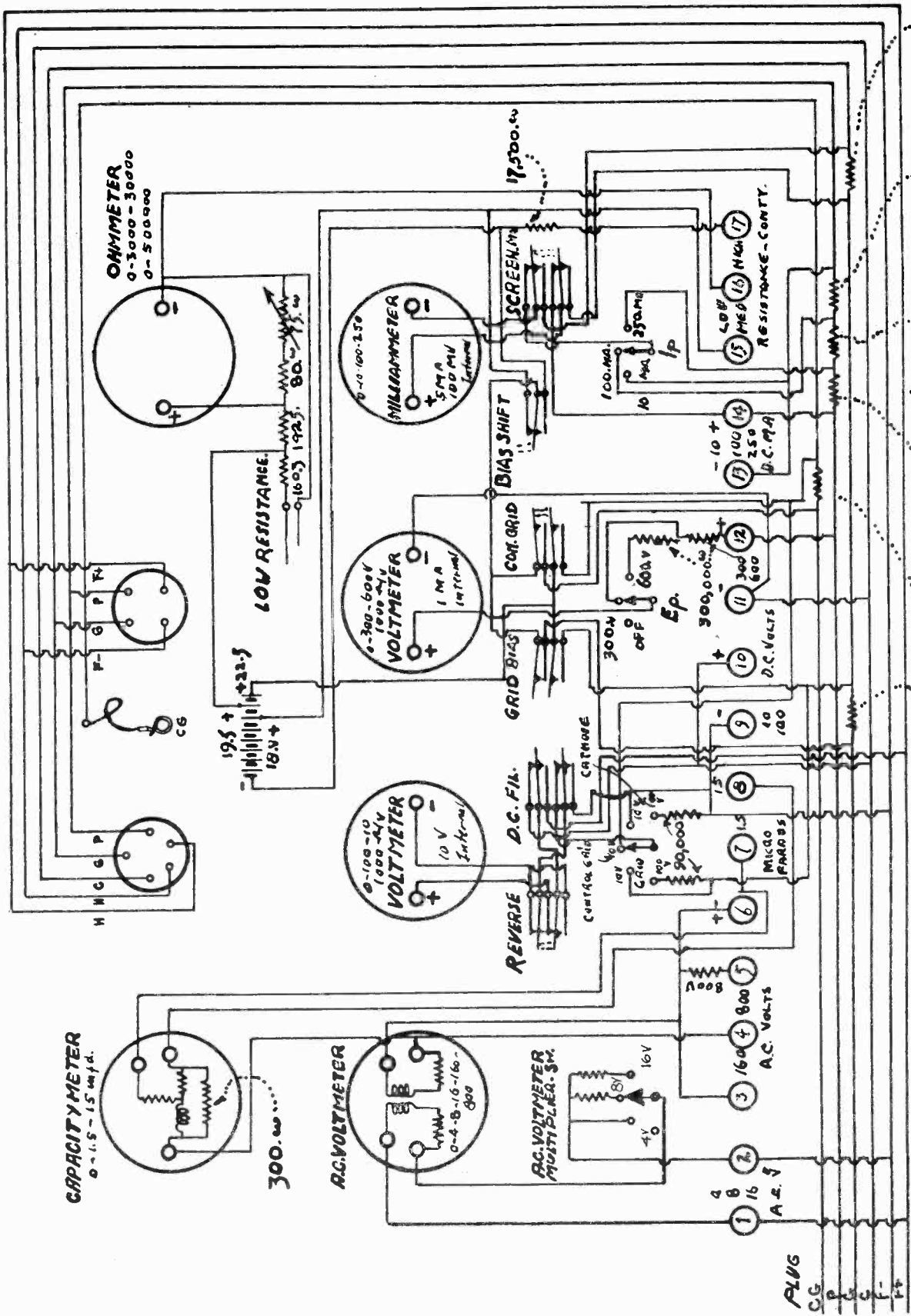
MODEL 32-A
MODEL 42-A
MODEL 43-A
MODEL 46-A

WESTERN ELECTRIC CO.



WESTON ELECTRICAL INSTRUM'T CORP.

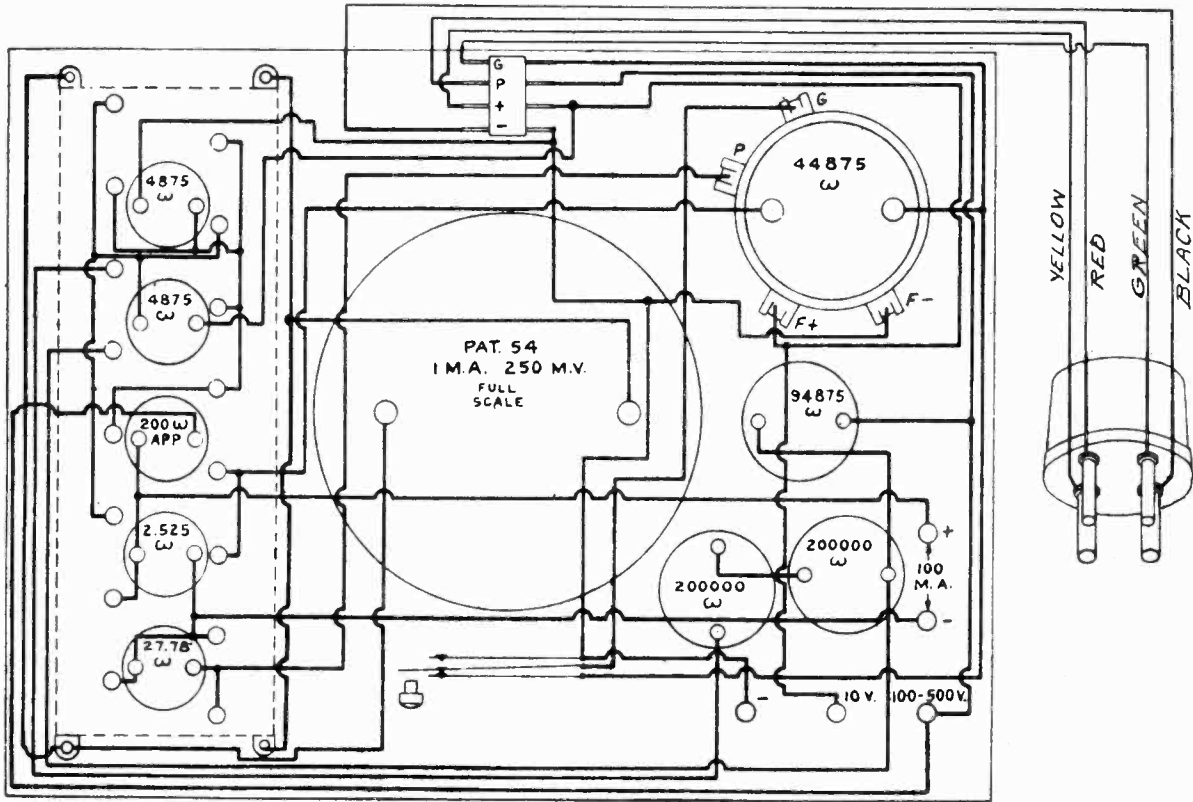
MODEL Jewell
Test Panel



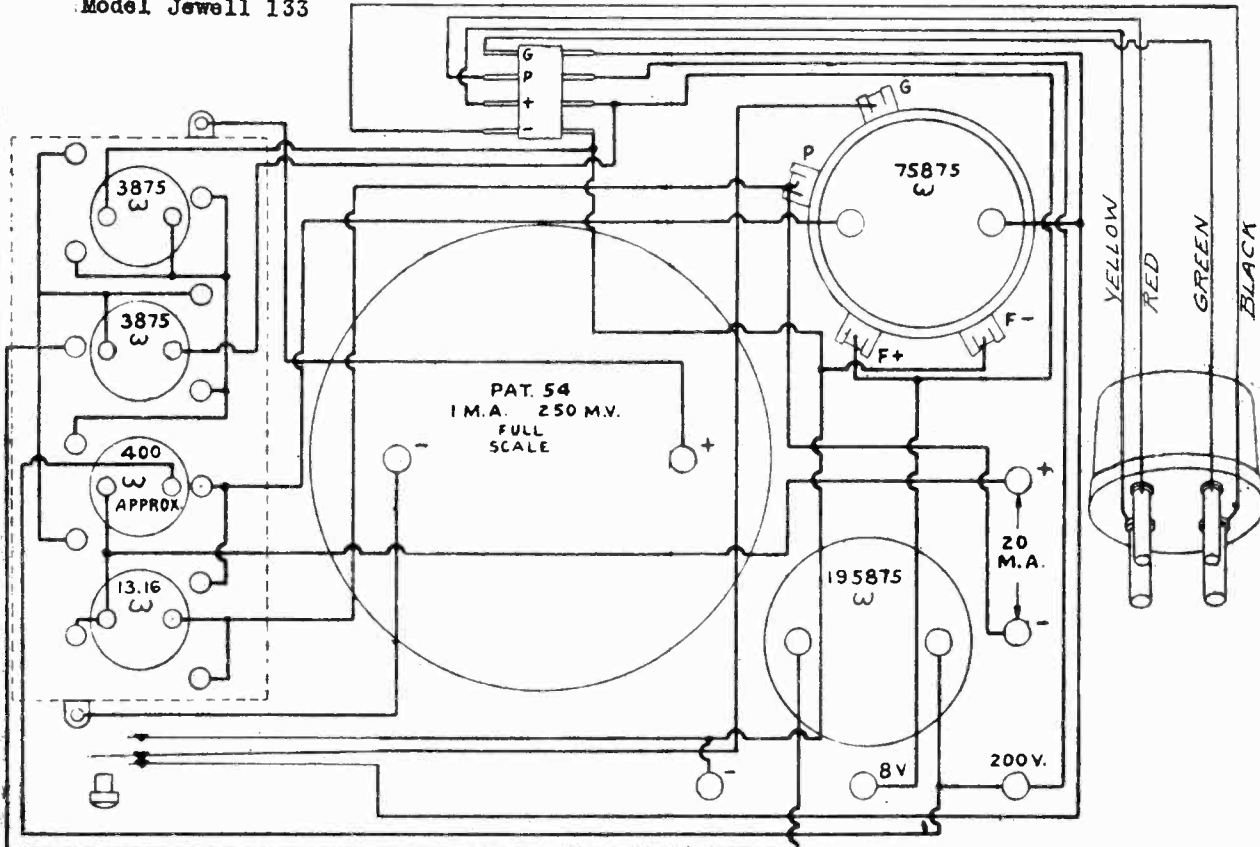
1,000.ω
408.ω 6440.ω 18948.ω 20,000.ω

MODEL Jewell 133
MODEL Jewell 133-A

WESTON ELECTRICAL INSTRUM'T CORP.



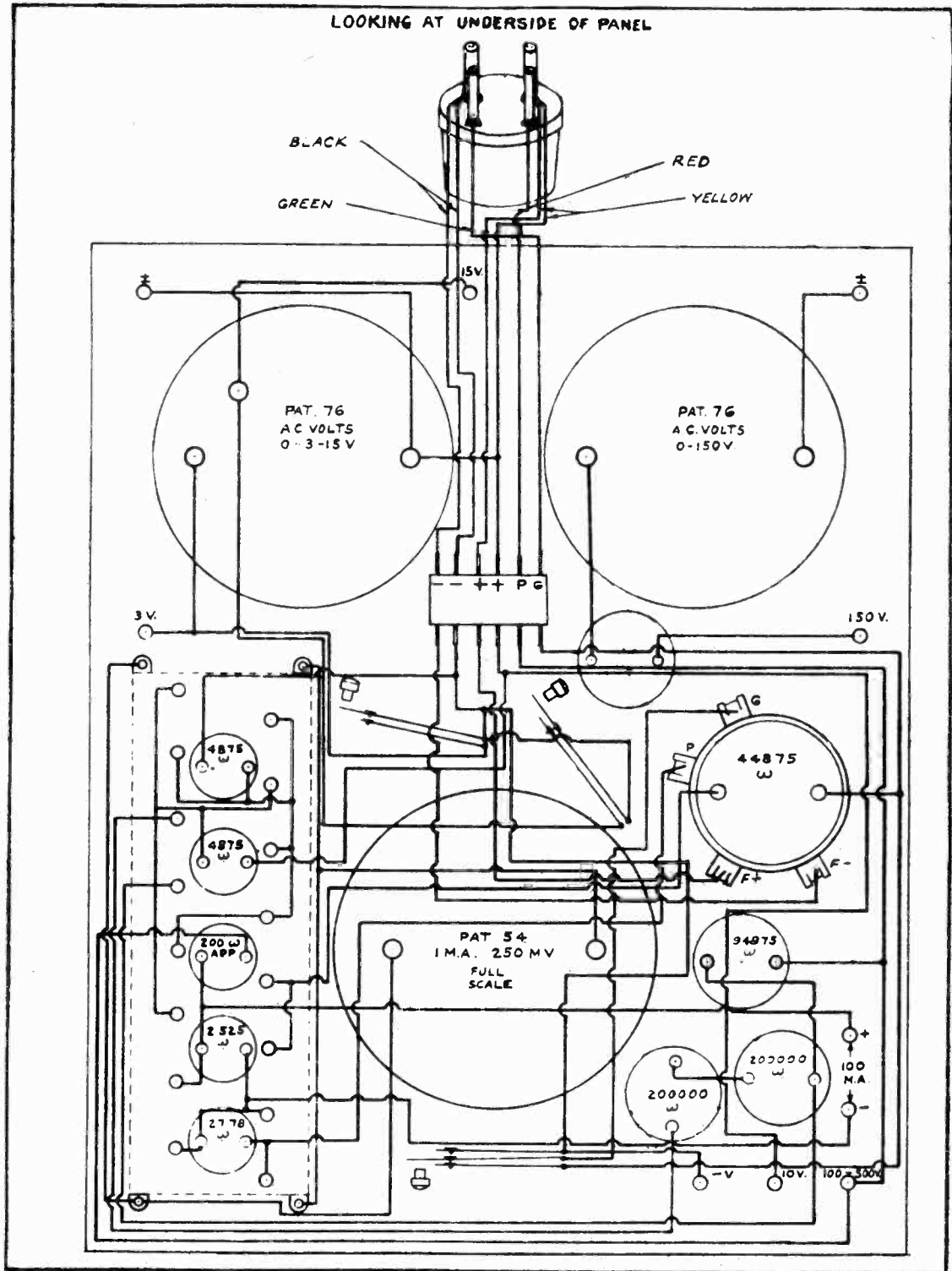
Model Jewell 133



Model Jewell 133-A

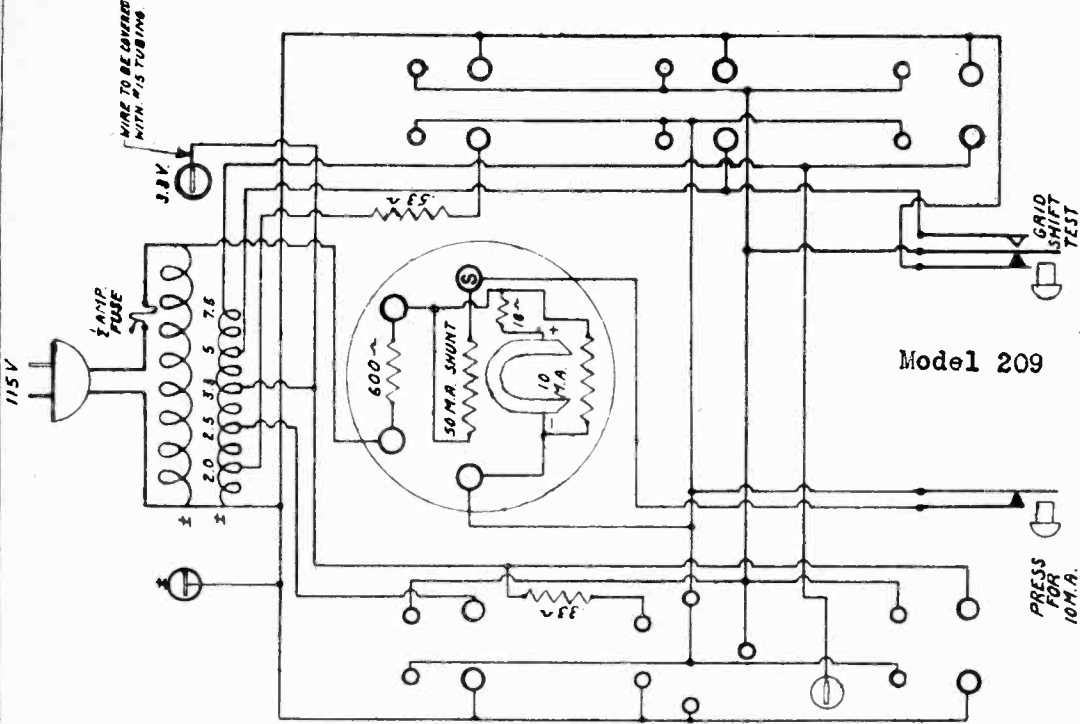
WESTON ELECTRICAL INSTRUM'T CORP.

MODEL Jewell 137



MODEL Jewell
198,199
2nd Type
MODEL Jewell 209

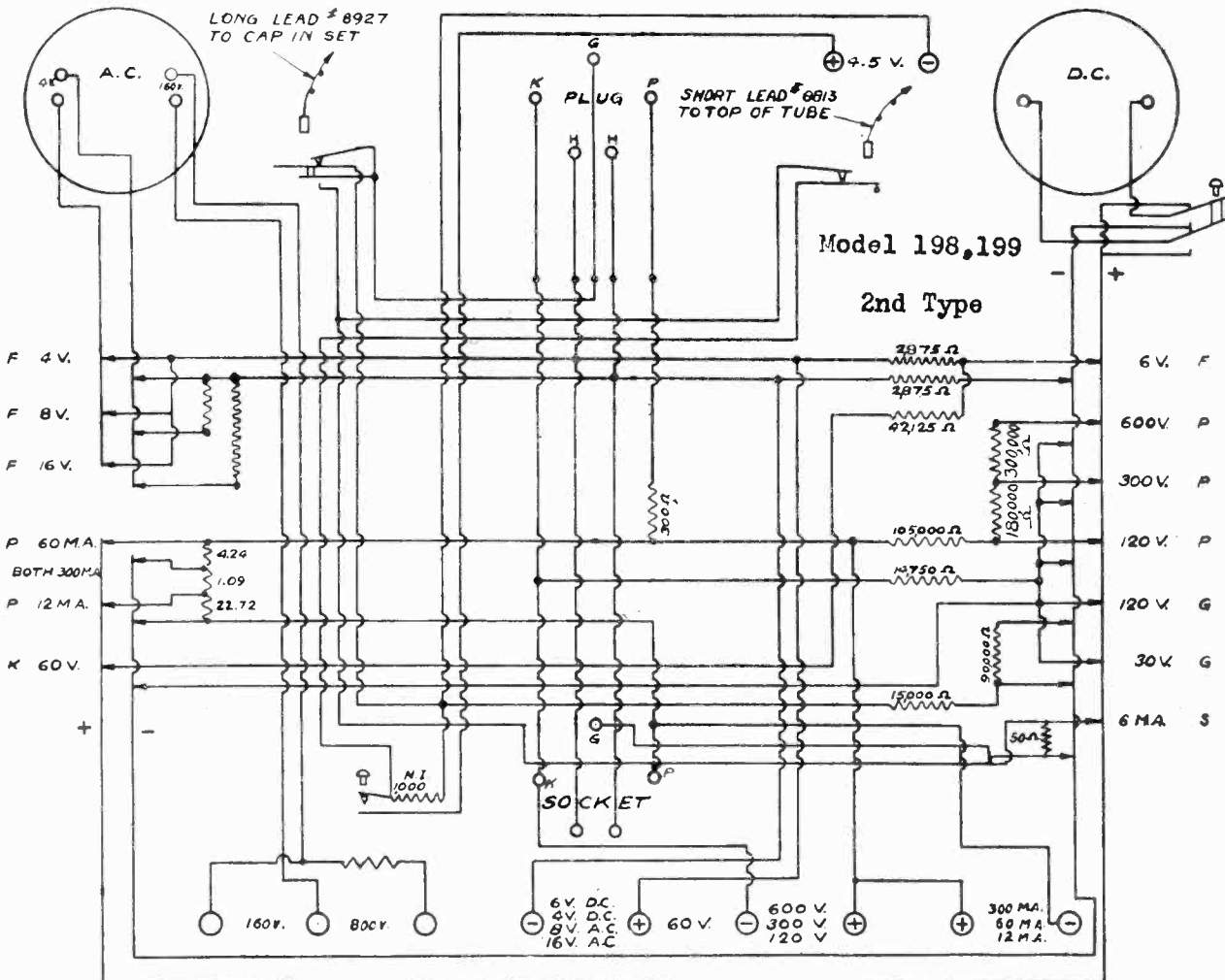
WESTON ELECTRICAL INSTRUM'T CORP.



SCHEMATIC

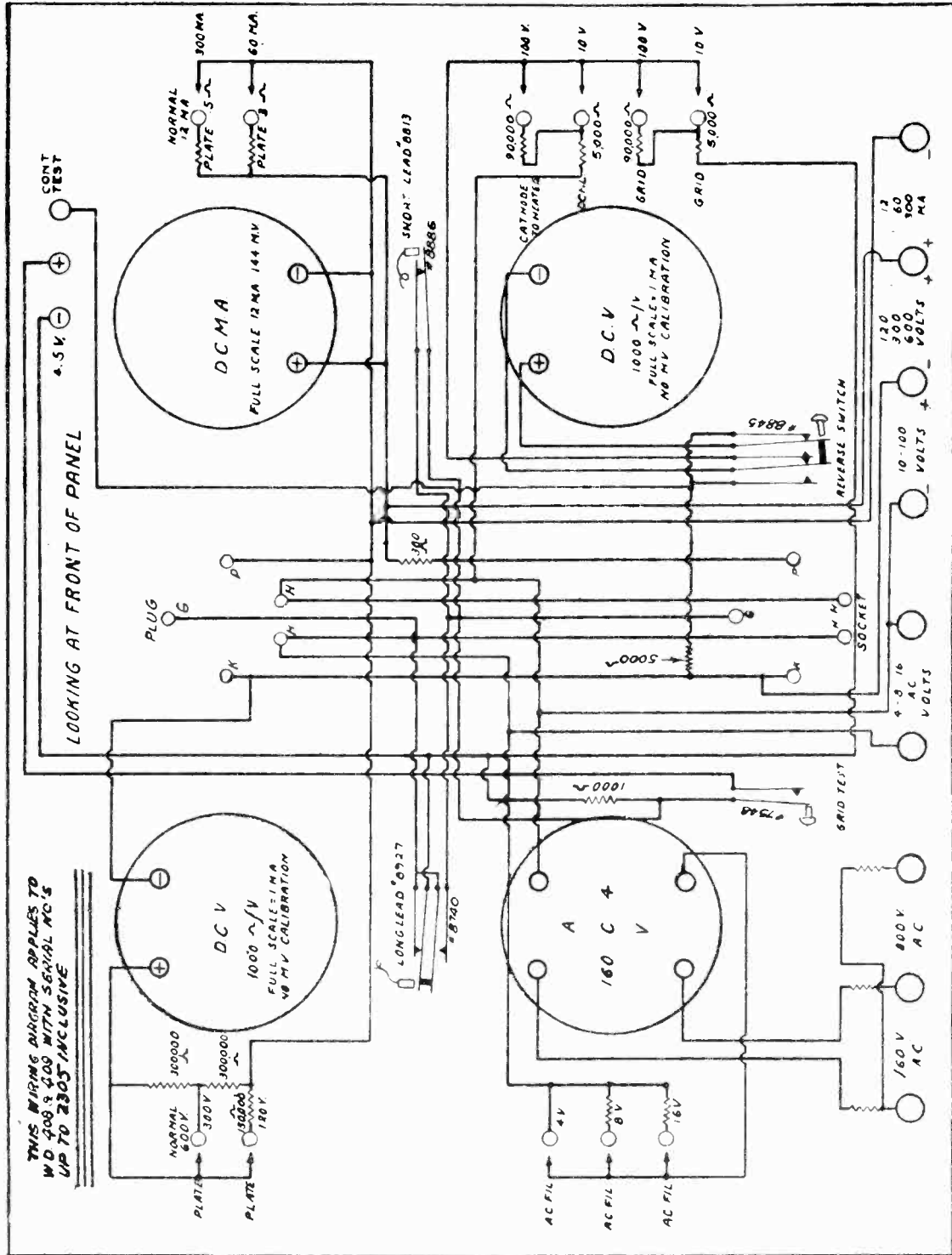
LOOKING AT BACK OF CASE

THIS DIAGRAM APPLIES TO ALL PAT. 209 WITH SERIAL No 6371 AND OVER FOR PAT. 209 WITH SERIAL No 4972 TO SERIAL No 6371 SEE W.D. 209 ISSUE 7. FOR PAT. 209 WITH SERIAL No. UNDER 4972 SEE W.D. 209 ISSUE 5.



WESTON ELECTRICAL INSTRUM'T CORP.

MODEL Jewell
408,409
1st Type



MODEL Jewell
408,409
2nd Type

WESTON ELECTRICAL INSTRUM'T CORP.

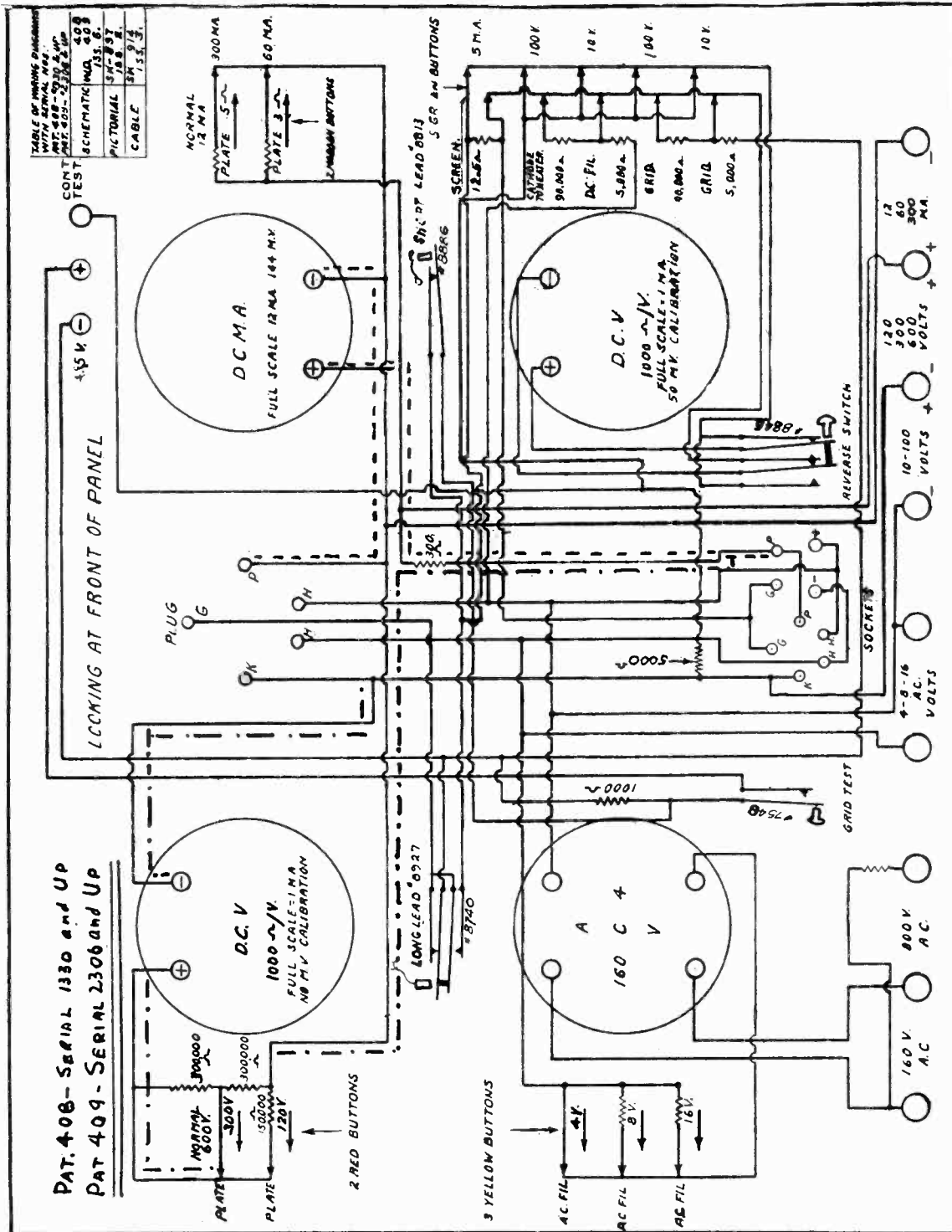


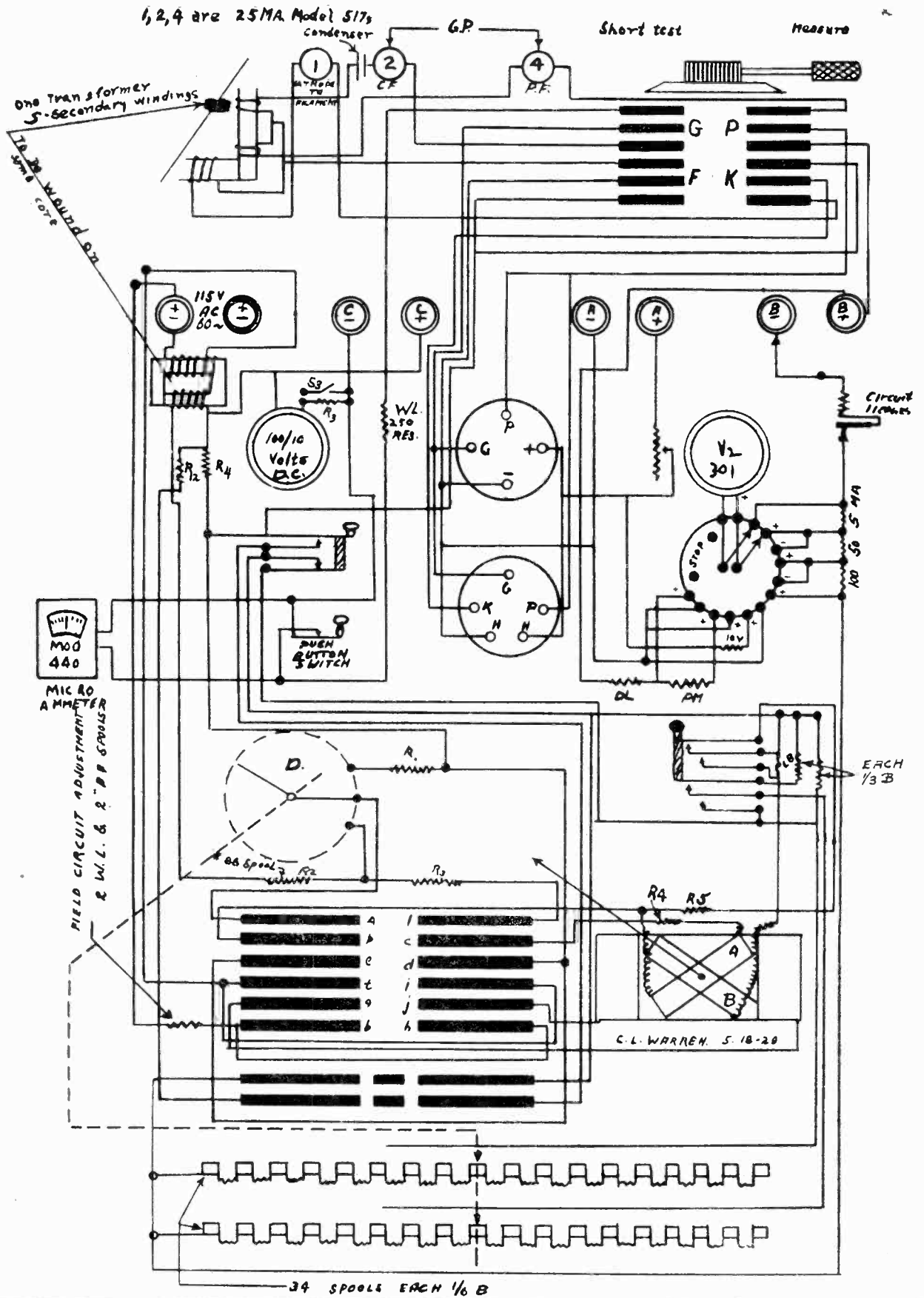
TABLE OF WIRING DIAGRAMS
WITH SERIAL NOS.

CONT.	408
TEST	409
SCHEMATIC	408
PICTORIAL	409
CABLE	408, 409

PAT. 408 - SERIAL 1330 and UP
PAT 409 - SERIAL 2306 and UP

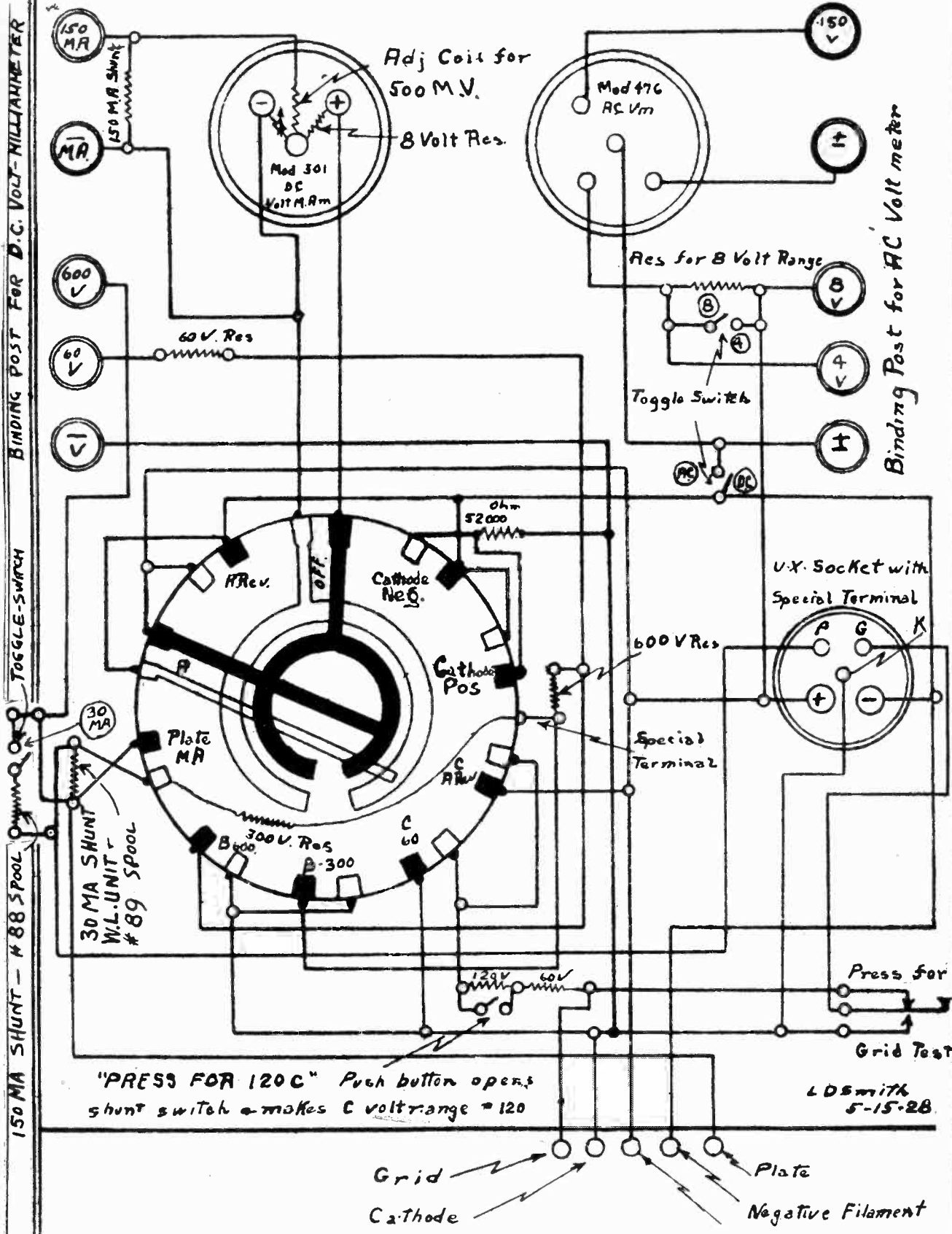
MODEL Weston.
526 Type 7

WESTON ELECTRICAL INSTRUM'T CORP.



MODEL Weston
537

WESTON ELECTRICAL INSTRUM'T CORP.

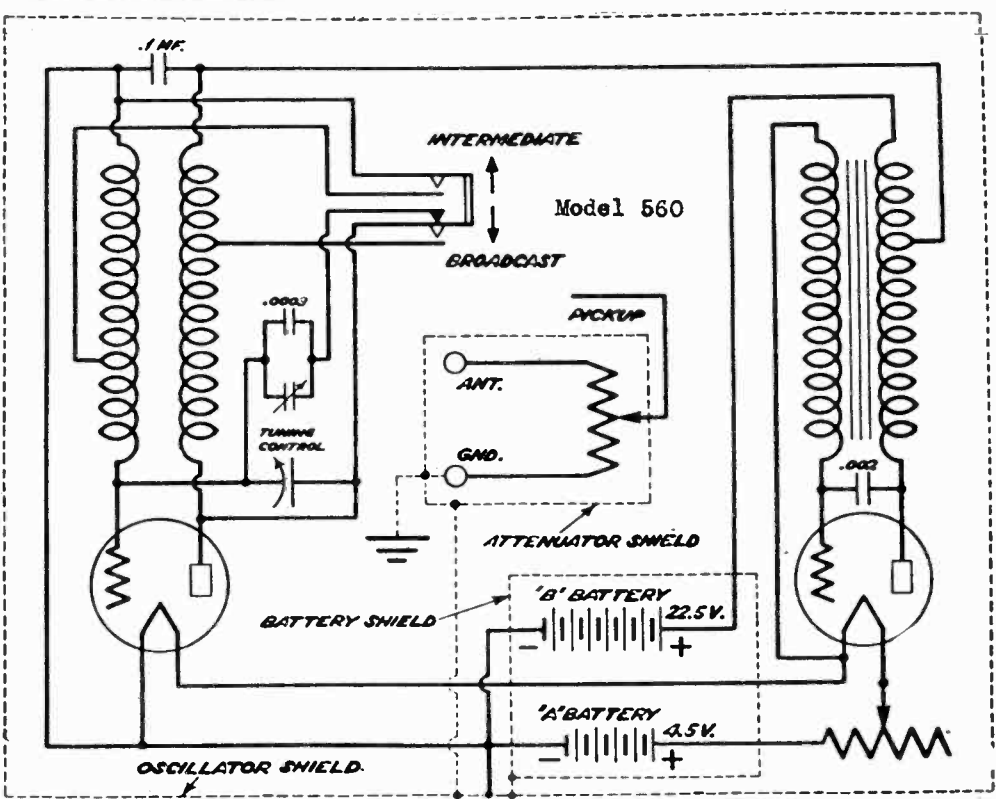
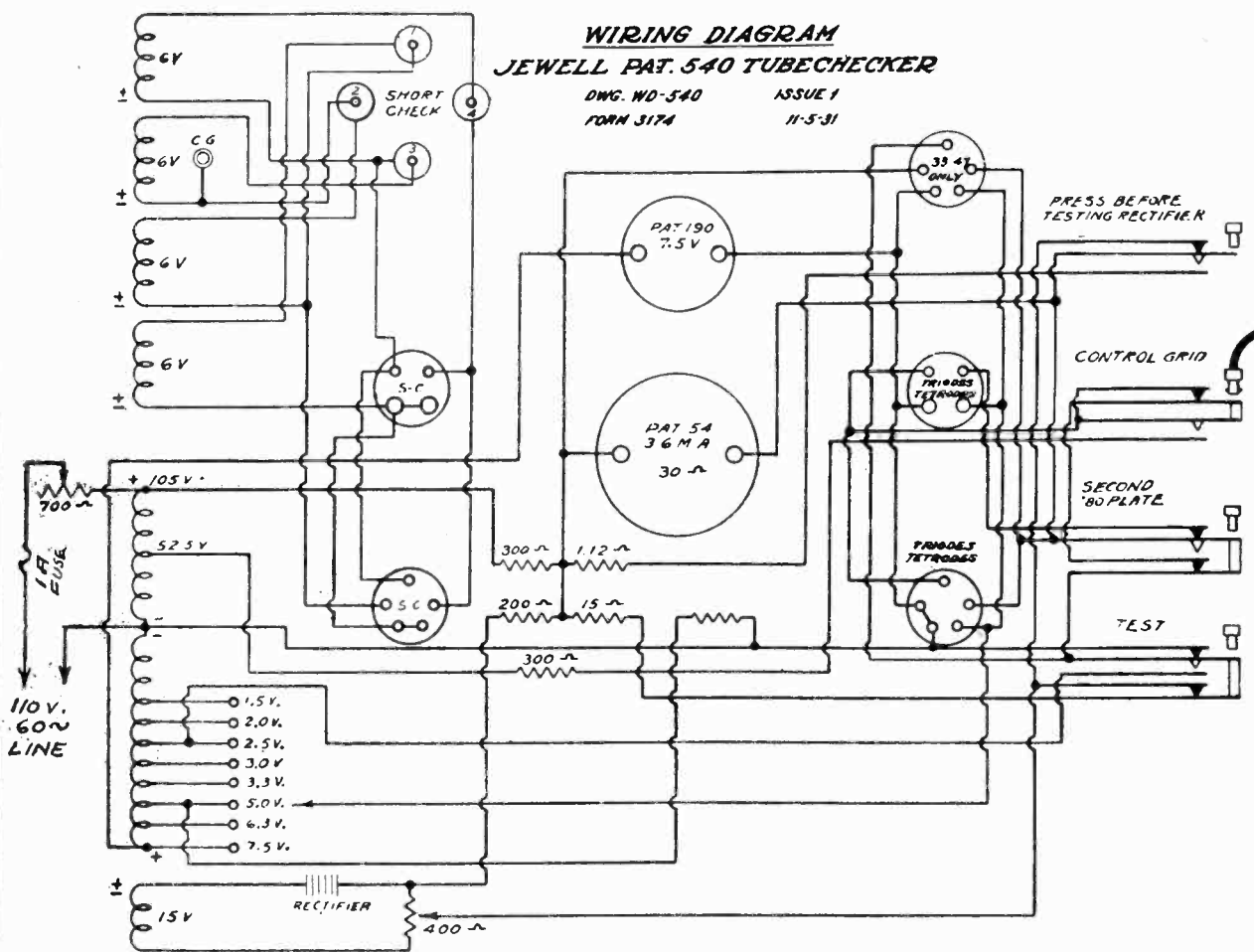


WESTON ELECTRICAL INSTRUM'T CORP.

MODEL Jewell
540
MODEL Jewell
560

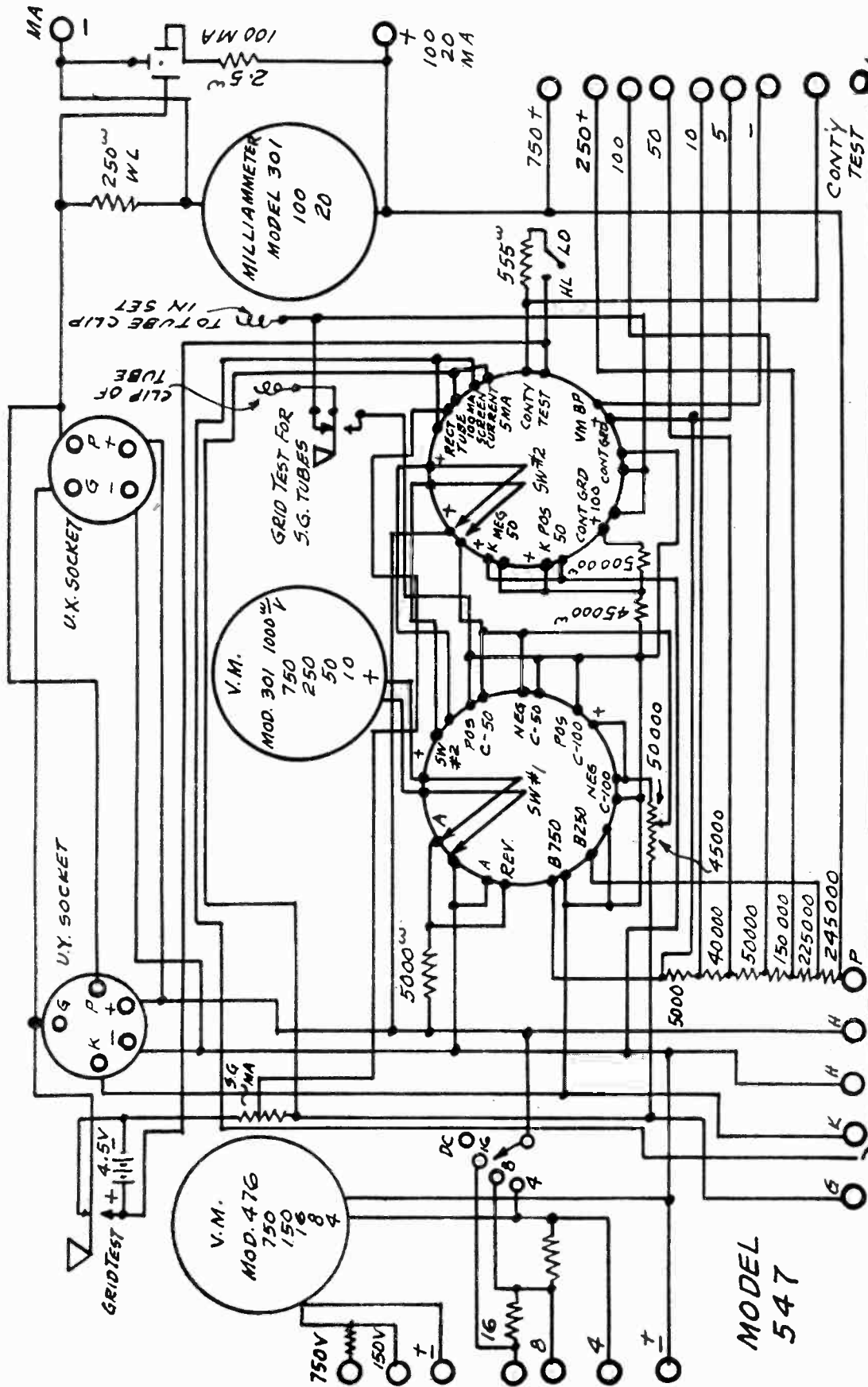
WIRING DIAGRAM
JEWELL PAT. 540 TUBE CHECKER

DWG. WD-540 ISSUE 1
FORM 3174 11-5-31



MODEL Weston
547

WESTON ELECTRICAL INSTRUM'T CORP.

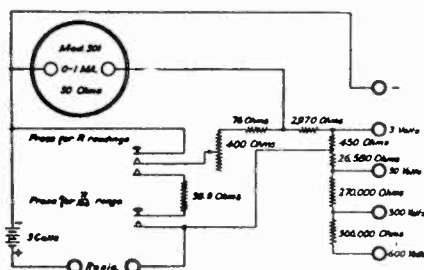
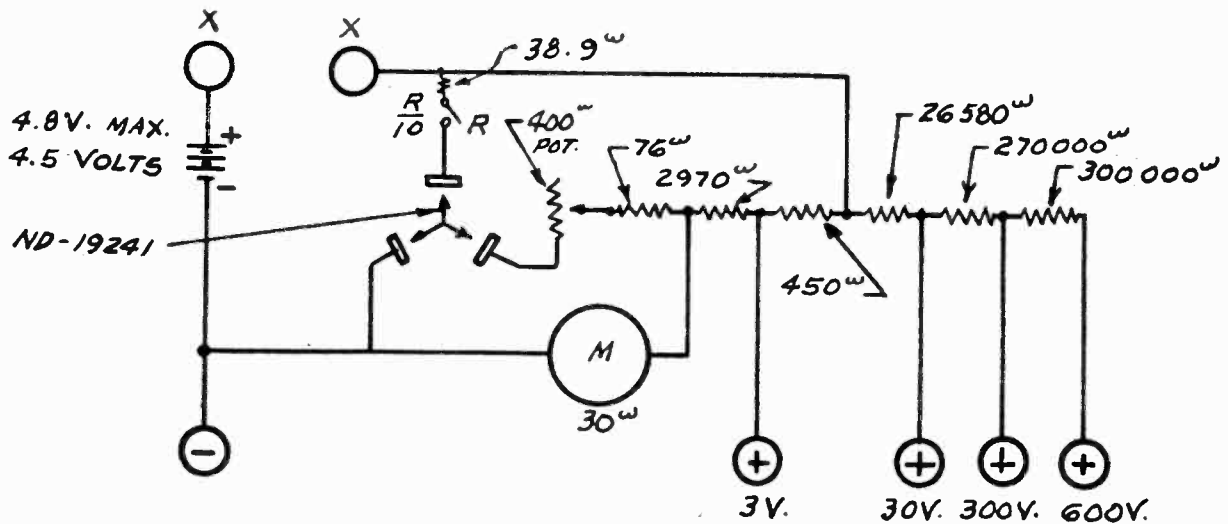
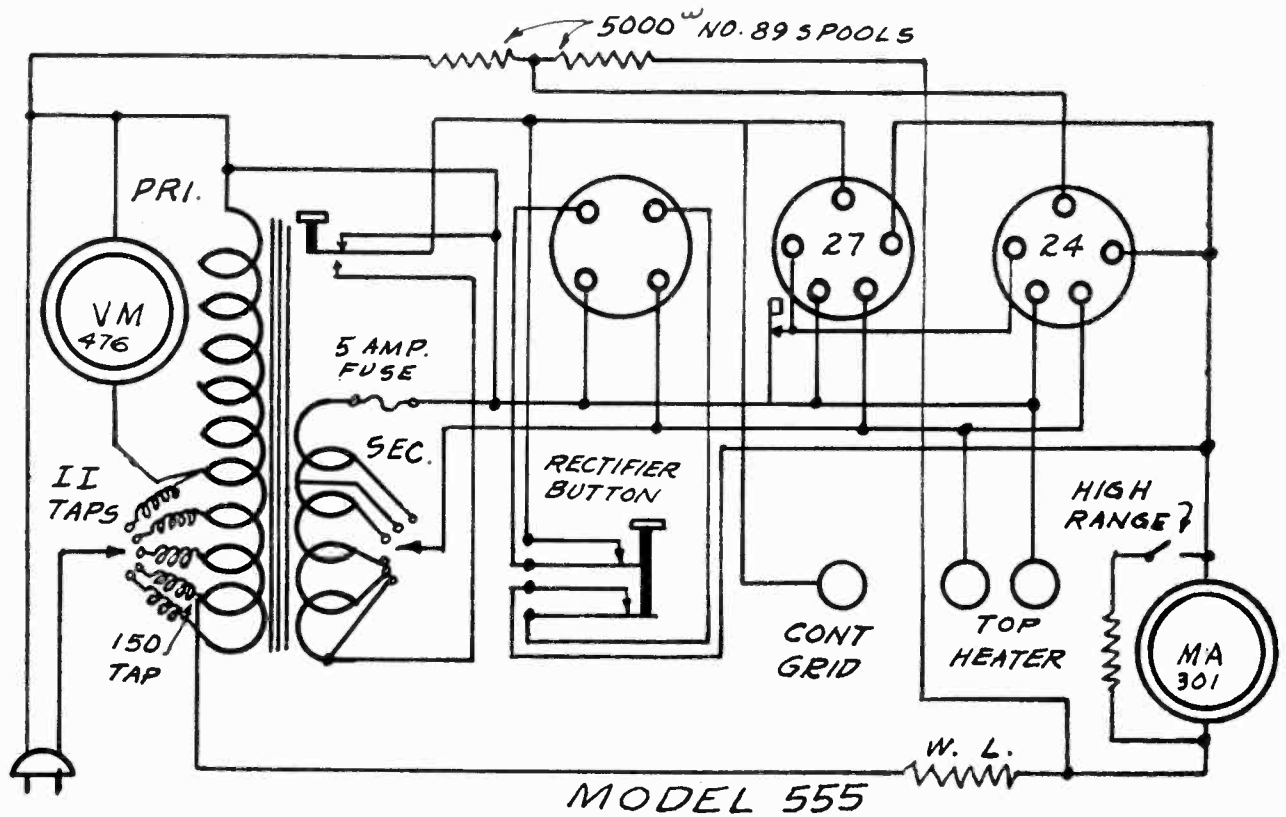


MODEL
547

MODEL Weston 555

MODEL Weston 564

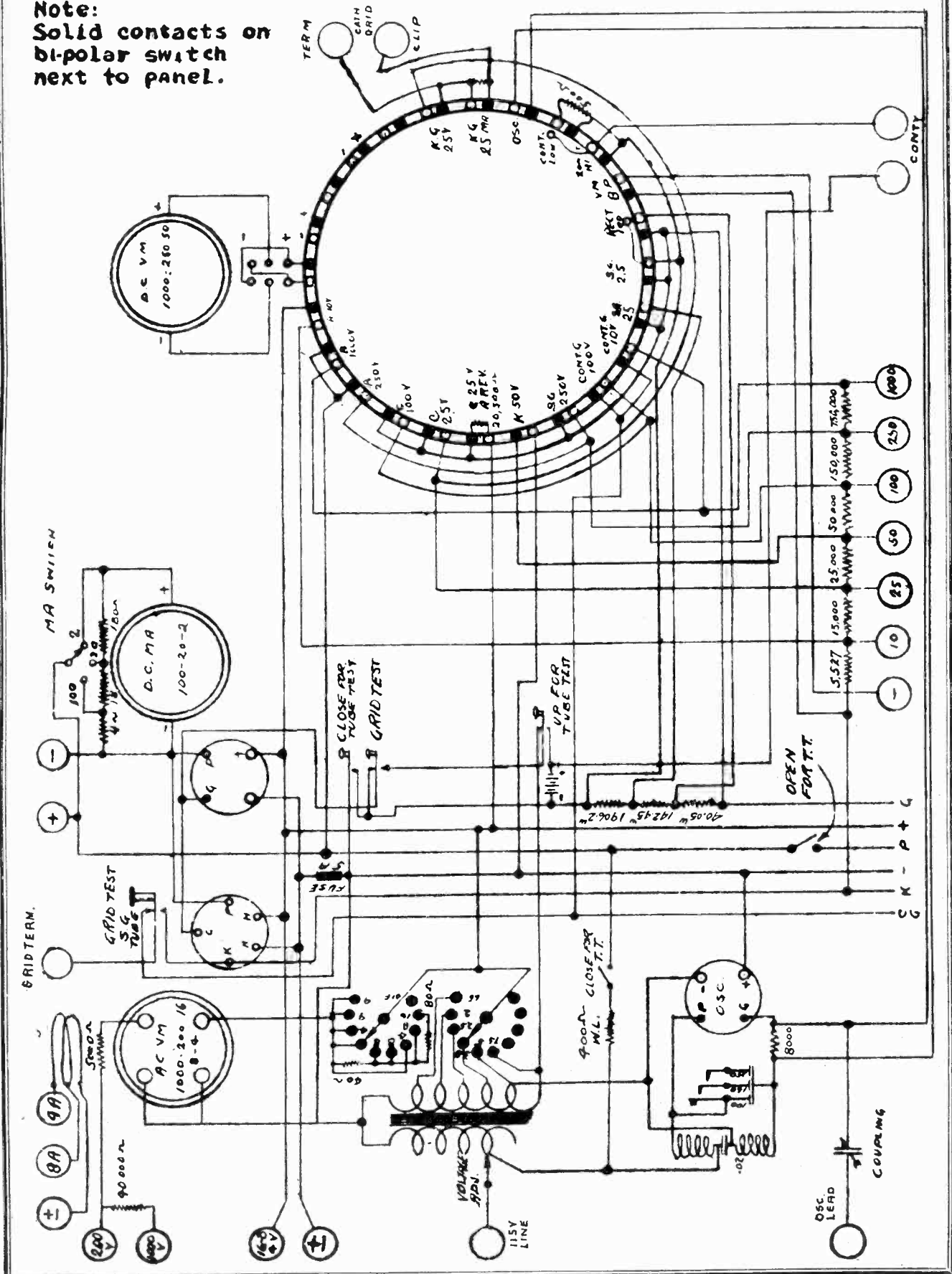
WESTON ELECTRICAL INSTRUM'T CORP.



Schematic diagram of the Weston Model 564 Volt-Ohmmeter. Note the connections of the toggle switches in the center

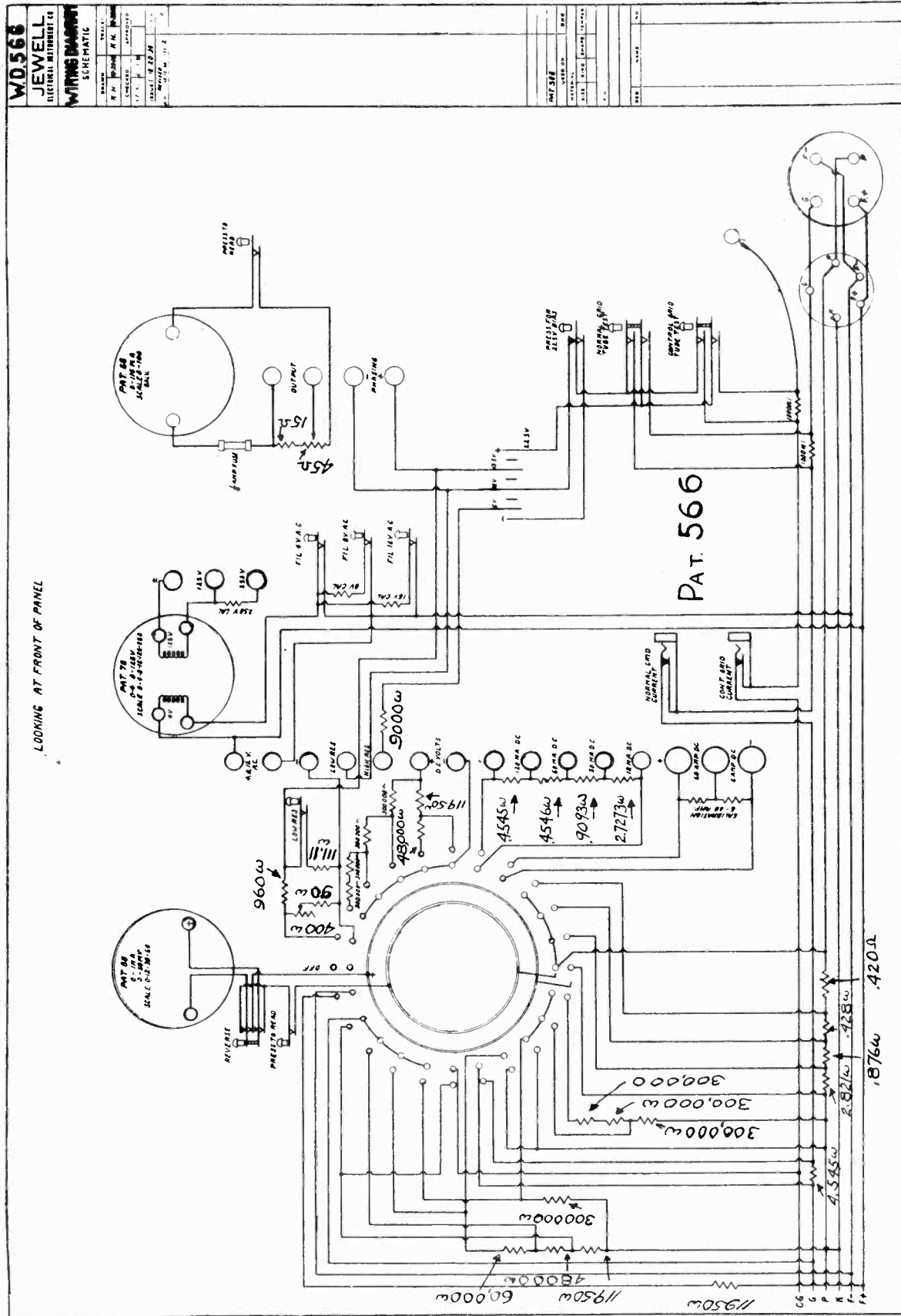
WESTON ELECTRICAL INSTRUM'T CORP.

Note:
Solid contacts on
bi-polar switch
next to panel.



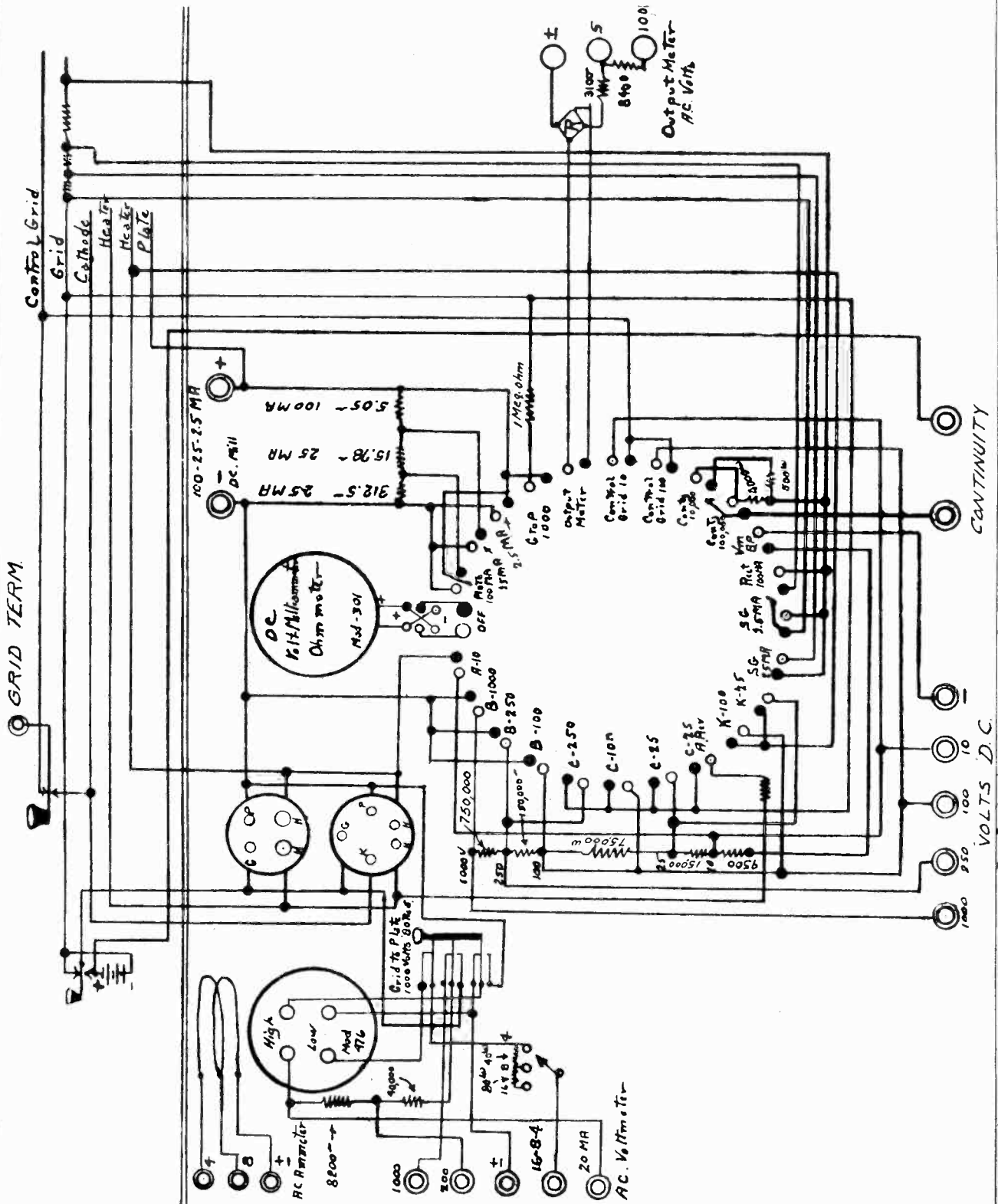
WESTON ELECTRICAL INSTRUM'T CORP.

MODEL Jewell
W D 566



MODEL Weston 566

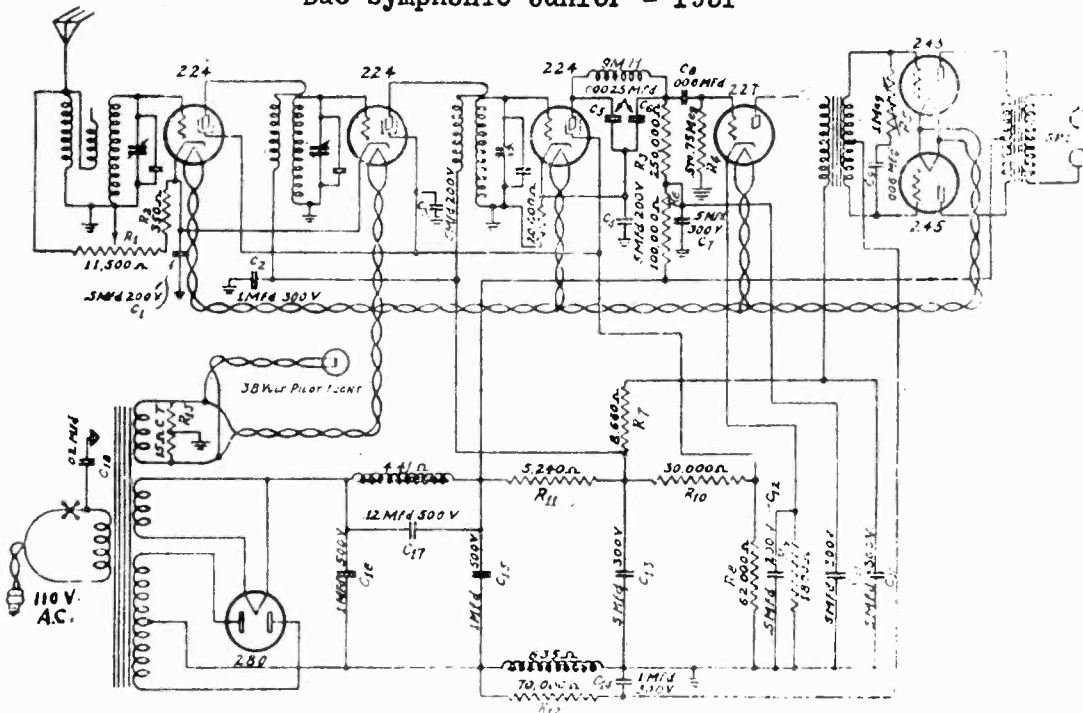
WESTON ELECTRICAL INSTRUM'T CORP.



WHOLESALE RADIO SERVICE CO., INC.

Duo-Symphonic Junior - 1931

MODEL Duo-Symphonic Junior 1931
MODEL Great Duo-Symphonic

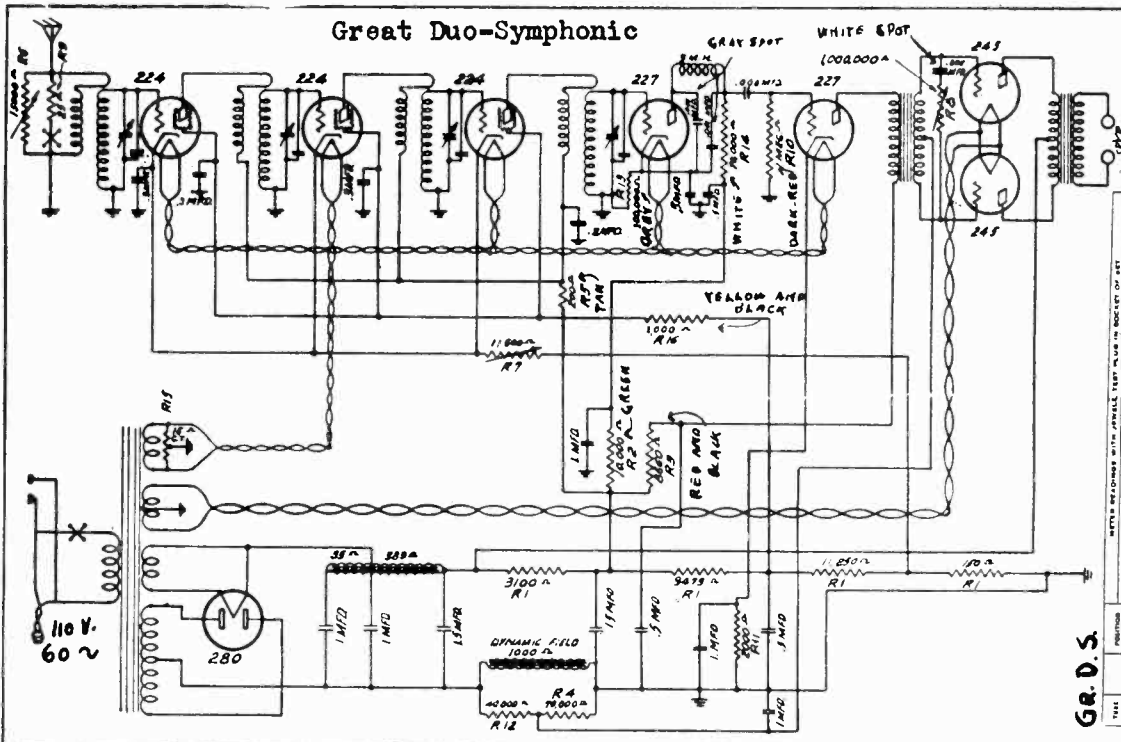


Line Vol-
tage 120.
Vol. Cntrl
Full

D. S. Jr 1931

TYPE OF TUBE	PART NO.	PRICE PER TUBE	OPERATING VOLTAGE		CURRENT		WATTAGE		REMARKS	
			PLATE	GRID	PLATE	GRID	PLATE	GRID	TEST	REMARKS
224	1 R.F.	2.5	100	5	5	5	5	5	5	
224	2 R.F.	2.5	100	5	5	5	5	5	5	
227	1 A.F.	1.00	100	5	5	5	5	5	5	
245	1 P.P.	2.5	100	5	5	5	5	5	5	
280	1 Rect.	0.8	100	5	5	5	5	5	5	

Great Duo-Symphonic



Line Vol-
tage 117.
Vol. Cntrl
Full

Gr. D.S.

TYPE OF TUBE	PART NO.	PRICE PER TUBE	OPERATING VOLTAGE		CURRENT		WATTAGE		REMARKS	
			PLATE	GRID	PLATE	GRID	PLATE	GRID	TEST	REMARKS
224	1 R.F.	2.5	100	5	5	5	5	5	5	
224	2 R.F.	2.5	100	5	5	5	5	5	5	
227	1 A.F.	1.00	100	5	5	5	5	5	5	
245	1 P.P.	2.5	100	5	5	5	5	5	5	
280	1 Rect.	0.8	100	5	5	5	5	5	5	

Great Duo-Symphonic

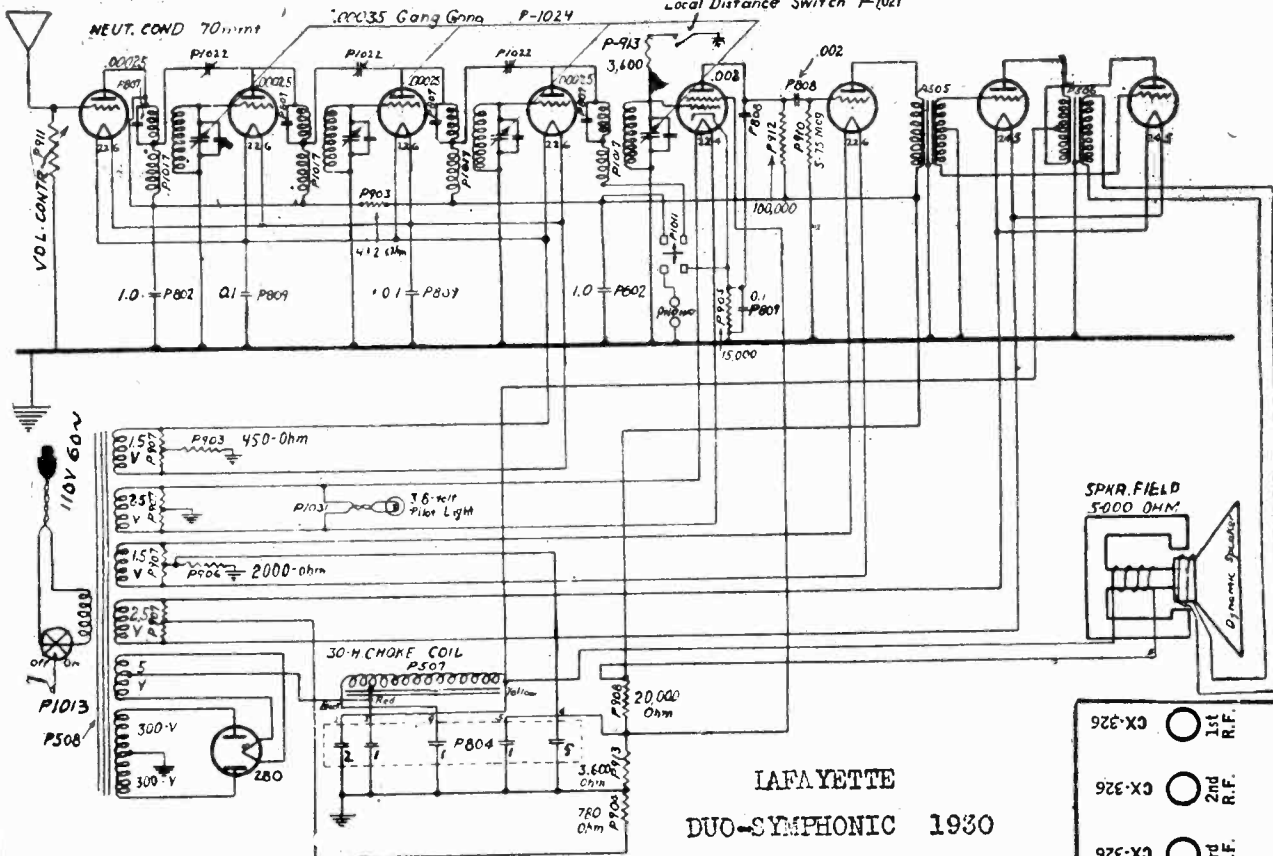
Duo-Symphonic Junior - 1931

- FRONT
- 1RF
 - C-324
 - 2RF
 - C-324
 - 3RF
 - C-324
 - DEF.
 - C-327
 - 1AF
 - C-337
 - 2AF
 - CX-345
 - RECT.
 - CX-380

- FRONT
- 1RF
 - C-324
 - 2RF
 - C-324
 - DEF.
 - C-324
 - 1AF
 - C-327
 - 2AF
 - CX-345
 - RECT.
 - CX-380

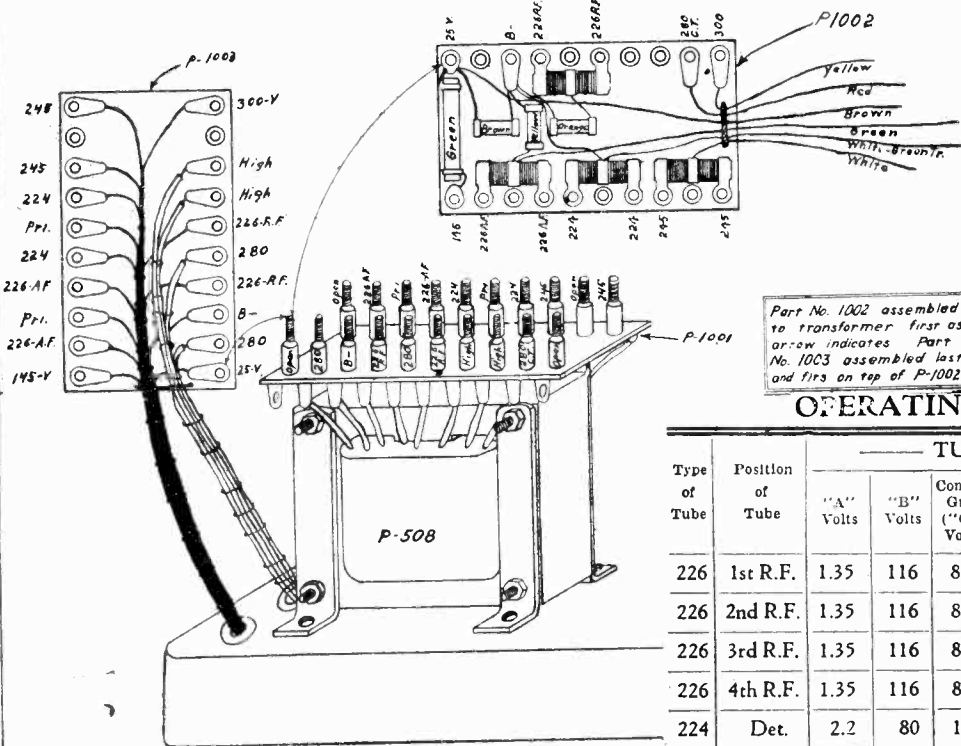
MODEL Duo-Symphonic
1930

WHOLESALE RADIO SERVICE CO., INC.



LAFAYETTE
DUO-SYMPHONIC 1930

- 92E-X3 ○ 1st R.F.
- 92E-X3 ○ 2nd R.F.
- 92E-X3 ○ 3rd R.F.
- 92E-X3 ○ 4th R.F.
- 92E-9 ○ Det.
- 92E-X3 ○ 1st A.F.
- 92E-X3 ○ 2nd A.F.
- 92E-X3 ○ 2nd A.F.
- 92E-X3 ○ Rect.



Power Transformer and Terminal Plate Assembly.

Part No. 1002 assembled to transformer first as arrow indicates. Part No. 1003 assembled last and fits on top of P-1002

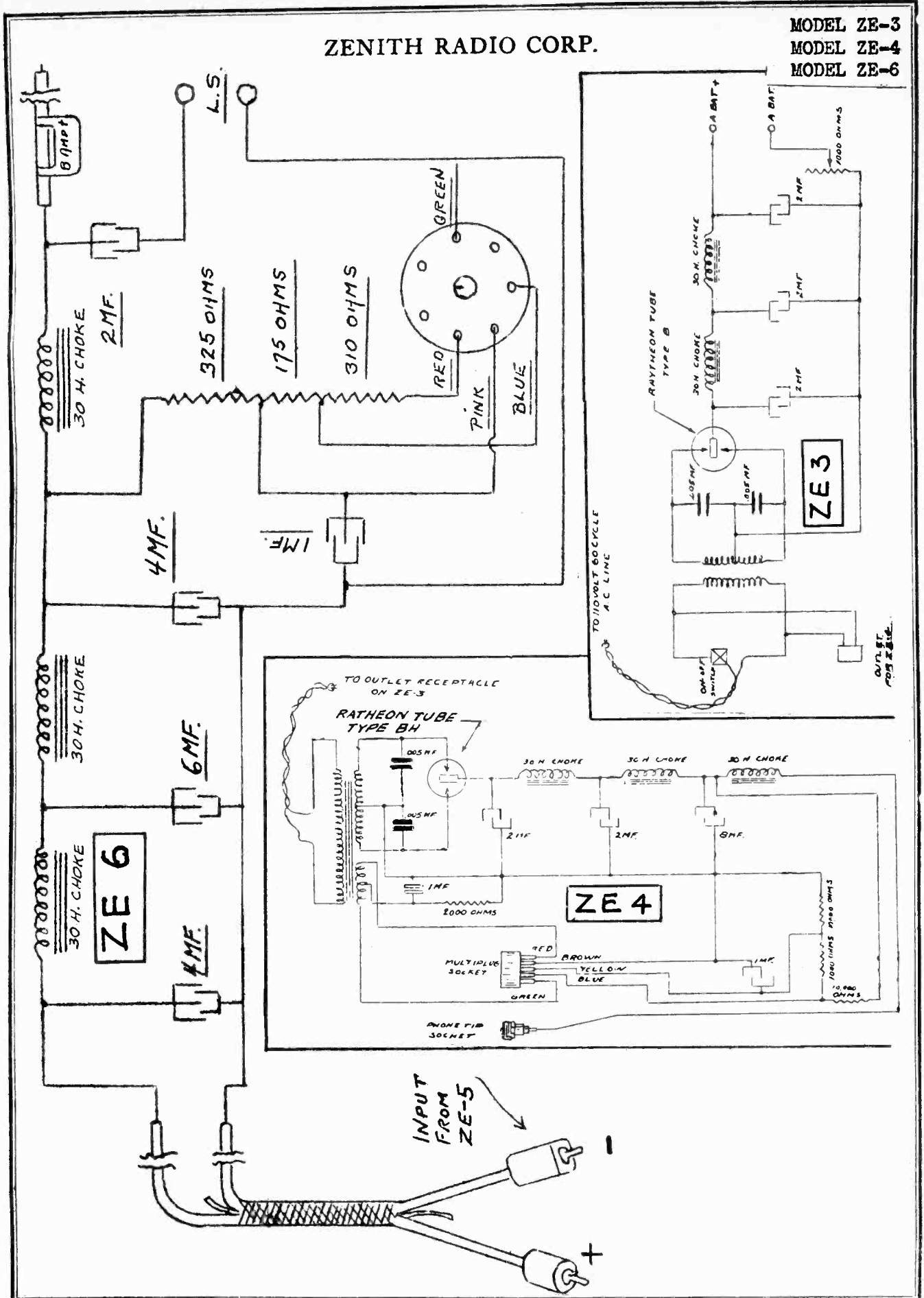
OPERATING VOLTAGES

Type of Tube	Position of Tube	TUBE IN TEST SET							Normal Ma.	Grid Test Ma.
		"A" Volts	"B" Volts	Control Grid ("C") Volts	Screen Volts	Screen Current	Cathode Volts	Normal		
226	1st R.F.	1.35	116	8.5				4.7	8.7	
226	2nd R.F.	1.35	116	8.5				4.7	8.7	
226	3rd R.F.	1.35	116	8.5				4.7	8.7	
226	4th R.F.	1.35	116	8.5				4.7	8.7	
224	Det.	2.2	80	1.3	15					
226	1st A.F.	1.4	110	1.0				4.0	5.0	
245	2nd A.F.	2.2	232	42				27	32	
245	2nd A.F.	2.2	232	42				27	32	
280	Rect.	4.6							84	

Line Voltage During Test—115 Volts.

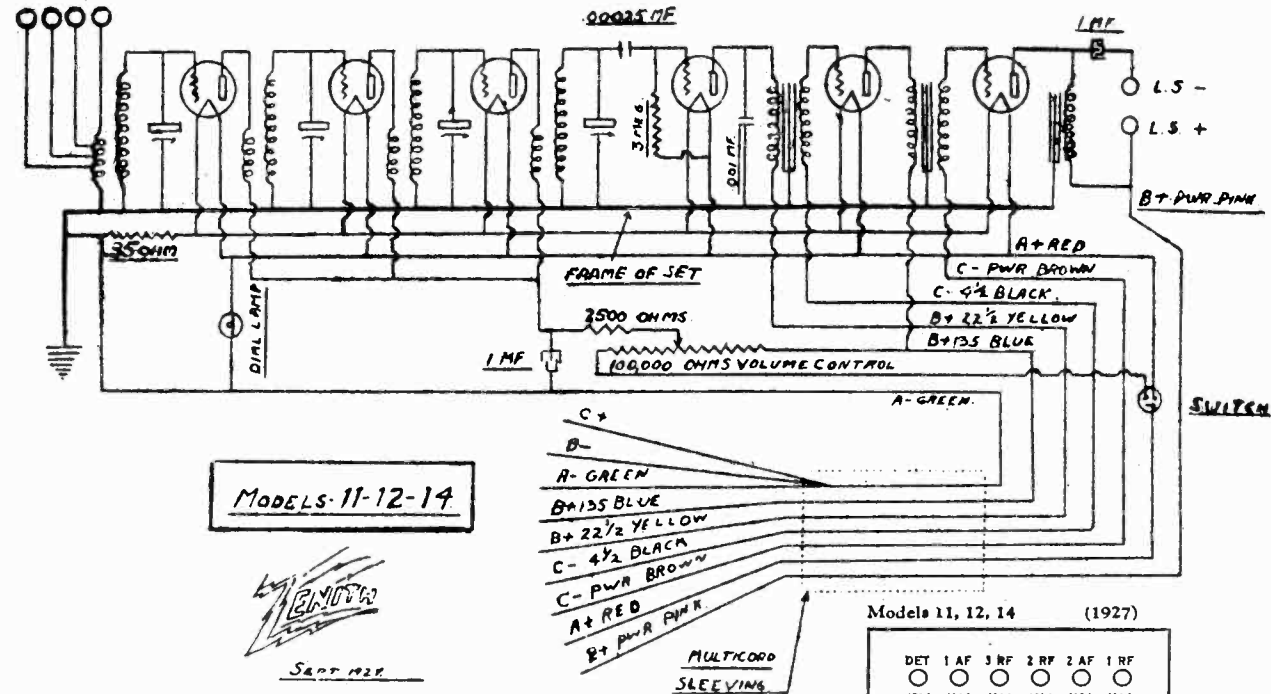
ZENITH RADIO CORP.

MODEL ZE-3
MODEL ZE-4
MODEL ZE-6



ZENITH RADIO CORP.

MODEL 11,12,14
1st Type
Receiver Schematic
MODEL 12
2nd Type
Receiver Schematic

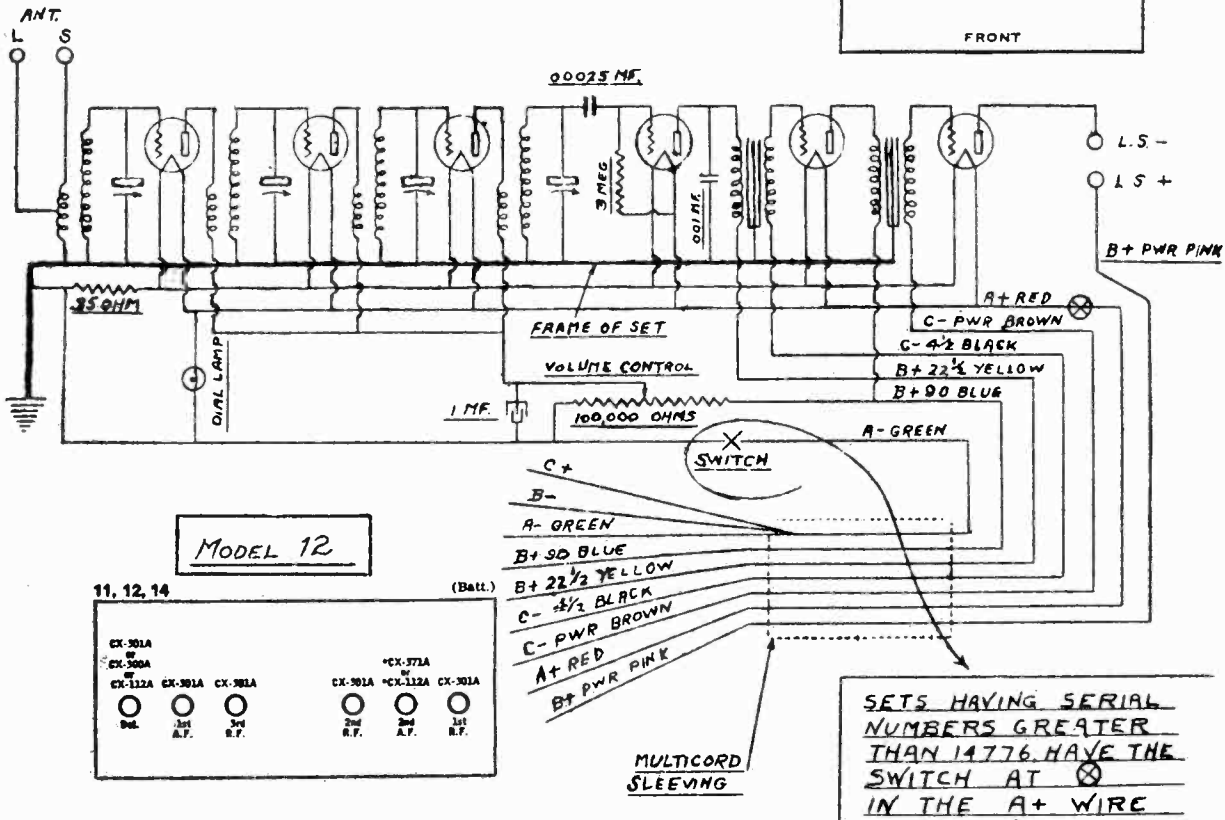


Models 11, 12, 14 (1927)

DET	1 AF	3 RF	2 RF	2 AF	1 RF
'01A	'01A	'01A	'01A	'12A	'01A
OR				OR	'71A
'00A					'71A


PILOT 6.0 V.

FRONT



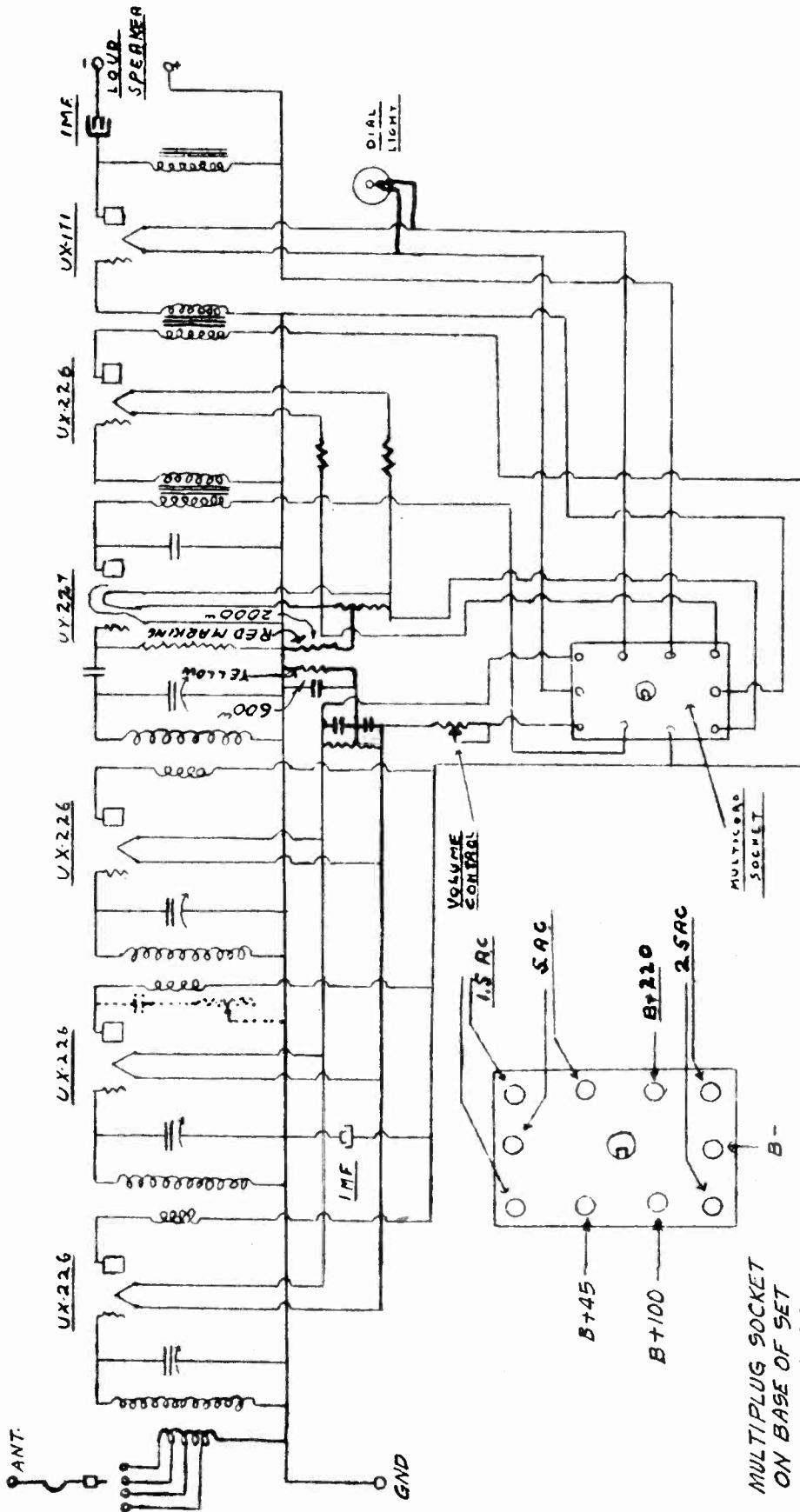
11, 12, 14 (Batt.)

CX-301A	CX-302A	CX-301A	CX-301A	CX-371A	CX-301A	CX-112A	CX-301A
1st	1st	2nd	2nd	2nd	2nd	1st	1st
A.F.	A.F.	R.F.	R.F.	R.F.	R.F.	A.F.	R.F.

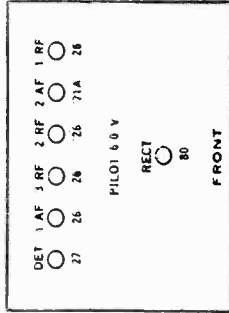
SETS HAVING SERIAL NUMBERS GREATER THAN 14776 HAVE THE SWITCH AT  IN THE A+ WIRE

ZENITH RADIO CORP

MODEL 11-E, 14-E Receiver Schematic



Models 11E, 14E, (1927)



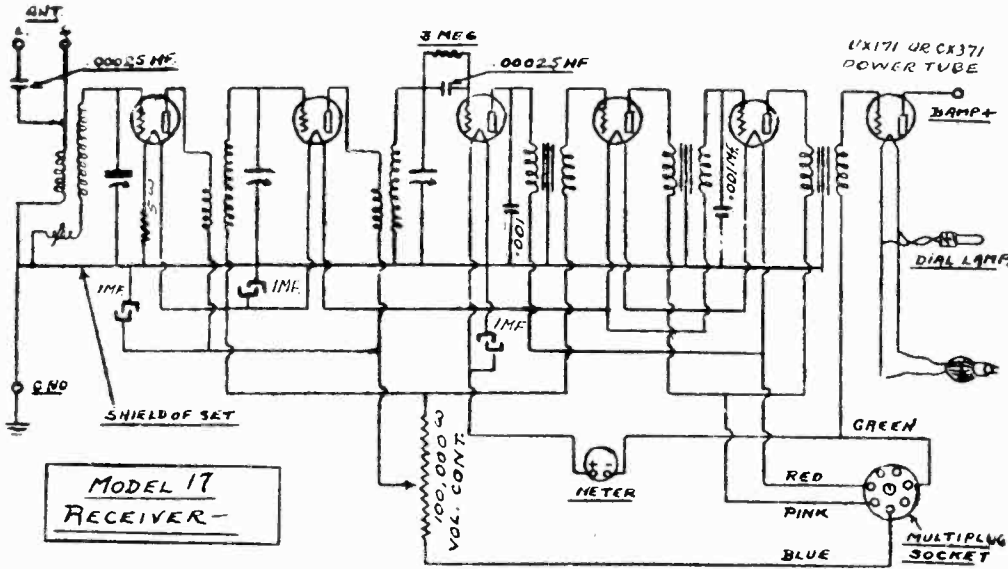
RECT. TUBE IS IN
POWER PACK

VOLUME CONTROL SHOWN
IN DOTTED LINES USED
ON MODELS 11E ABOVE
48657 TO 51050 AND
14E FROM 605420 TO 607147

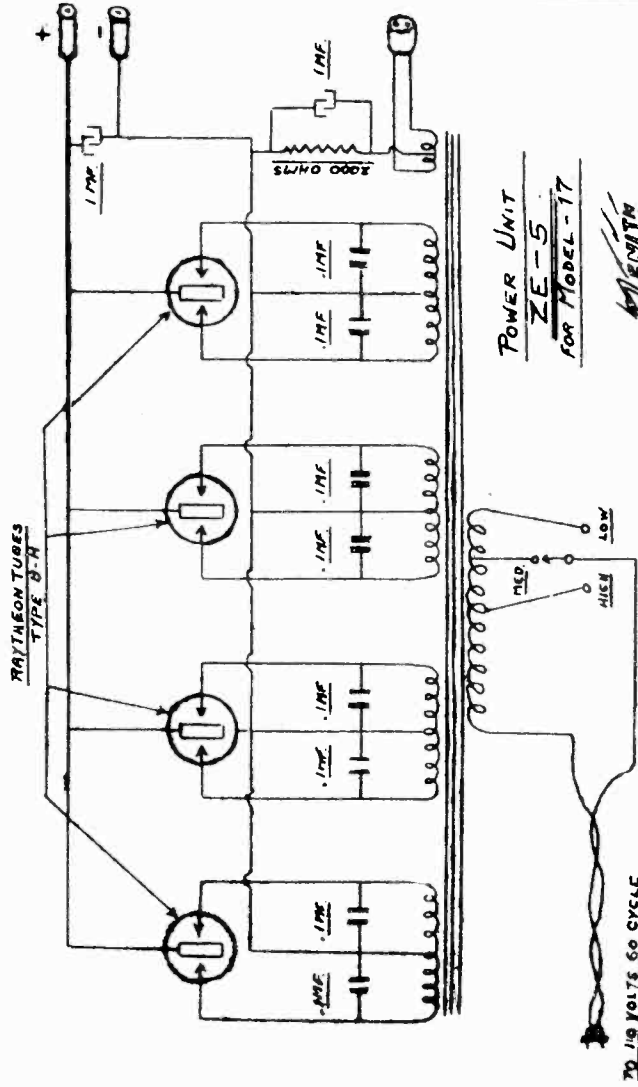
MULTIPLUG SOCKET
ON BASE OF SET
SHOWING CORRECT
VOLTAGES UNDER
LOAD OF SET

MODEL 17 Schematic
MODEL ZE-5 Power Units

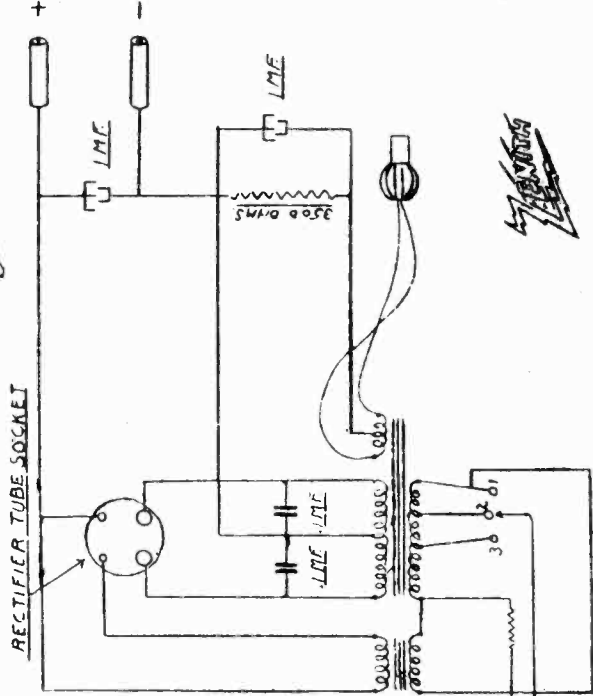
ZENITH RADIO CORP.



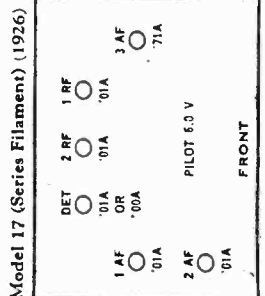
MODEL 17
RECEIVER



POWER UNIT
ZE-5
FOR MODEL-17

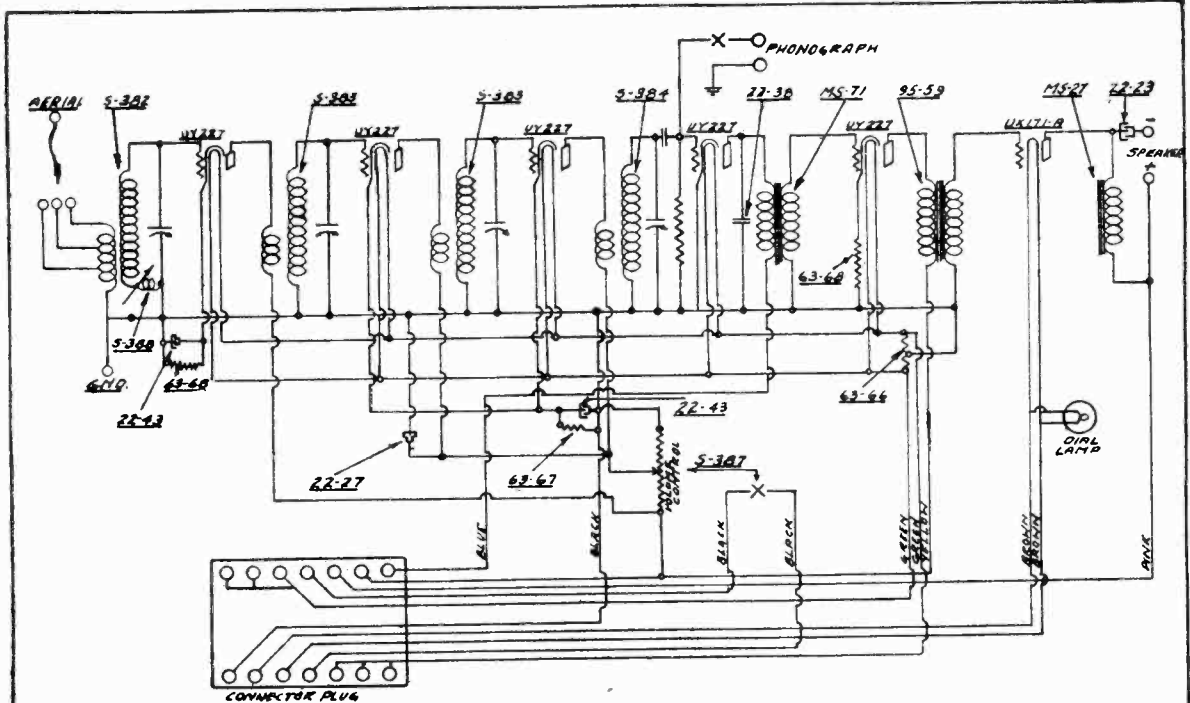


SPECIAL ZE-5
POWER SUPPLY
USING SINGLE
RECTIFYING TUBE

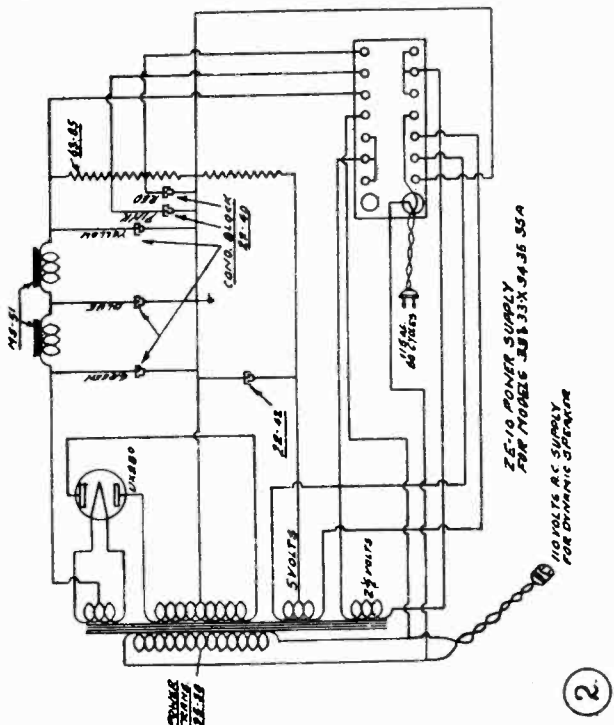


ZENITH RADIO CORP.

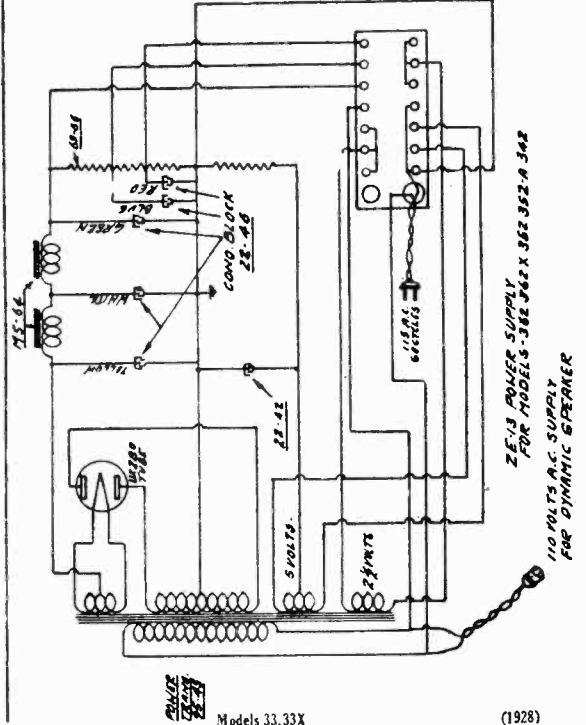
MODEL 33-X, 362-X
 MODEL ZE-10
 MODEL ZE-13



WIRING DIAGRAM
 MODELS 33X362X
 6 TUBE ELECTRIC SET



2

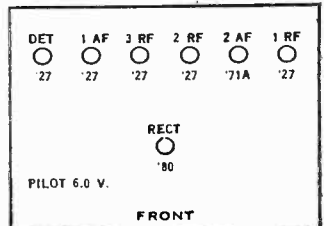


Models 33, 33X

(1928)

ZENITH—Models 33X-362X
 Line Voltage 115

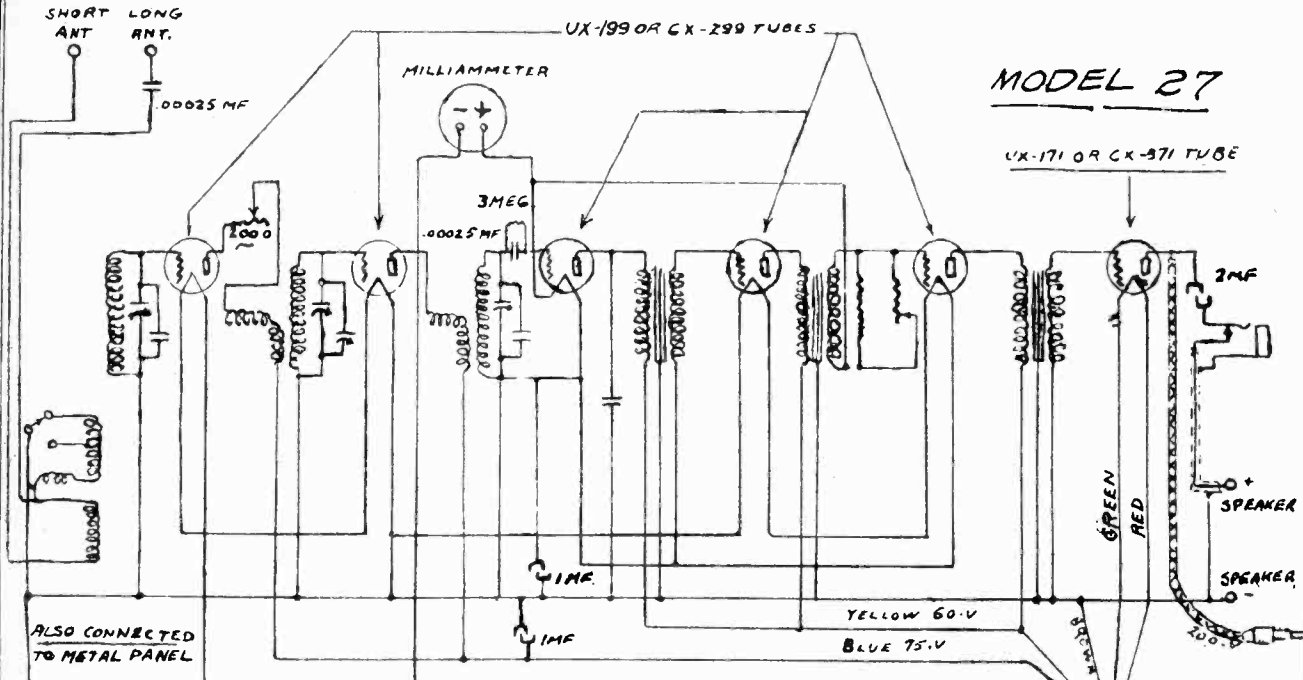
TUBE NO. IN ORDER	TYPE OF TUBE	POSITION OF TUBE 1ST RF DET ETC.	READINGS PLUG IN SOCKET OF SET									
			TUBE OUT			TUBE IN TESTER						
A VOLTS	B VOLTS	C VOLTS	A VOLTS	B VOLTS	C VOLTS	NORMAL CATHODE VOLTS	PLATE MA	GRID MA	TEST	CHANGE	PLATE MA	CHANGE
227	1st. R.F.		2.05	102	6	-	2.9	4.1	1.2			
227	2nd. R.F.		2.05	102	5	-	3.8	6.8	3.0			
227	3rd. R.F.		2.05	102	5	-	3.8	6.8	3.0			
227	Detector		2.00	40	0	-	2.3	2.5	0.2			
227	1st. A.F.		2.05	94	5	-	2.6	3.7	1.1			
171A	2nd. A.F.		4.90	170	35	-	17.0	18.0	1.0			
280	Rectifier		4.00	-	-	-	20.0	-	-			



CX-380 used in separate power unit.

MODEL Super-Zenith 27
MODEL 31,32 Battery

ZENITH RADIO CORP.



ALSO CONNECTED TO METAL PANEL

Models 31, 32 (1927)

DET	1 AF	3 RF	2 RF	2 AF	1 RF
01A	01A	01A	01A	12A	01A
OR					OR
00A					71A

PILOT 6.0 V.

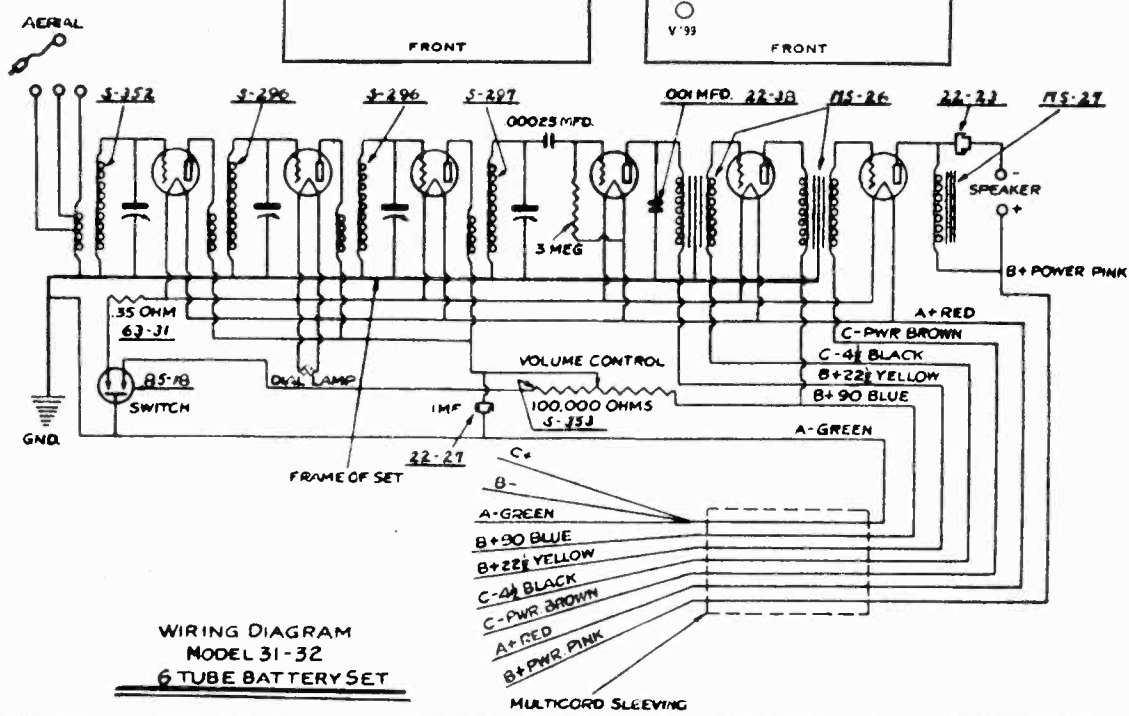
FRONT

Model 27 (Series Filament) (1926)

1 AF	DET	2 RF	1 RF
V'99	V'99	V'99	V'99
3 AF			
71A			
2 AF			
V'99			

PILOT 6.0 V.

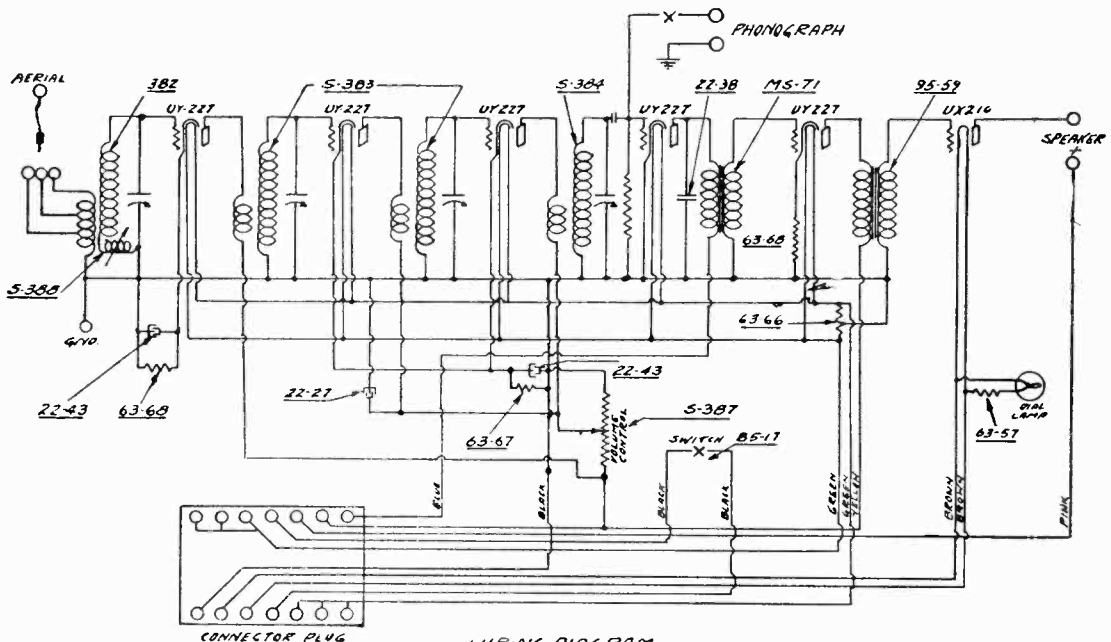
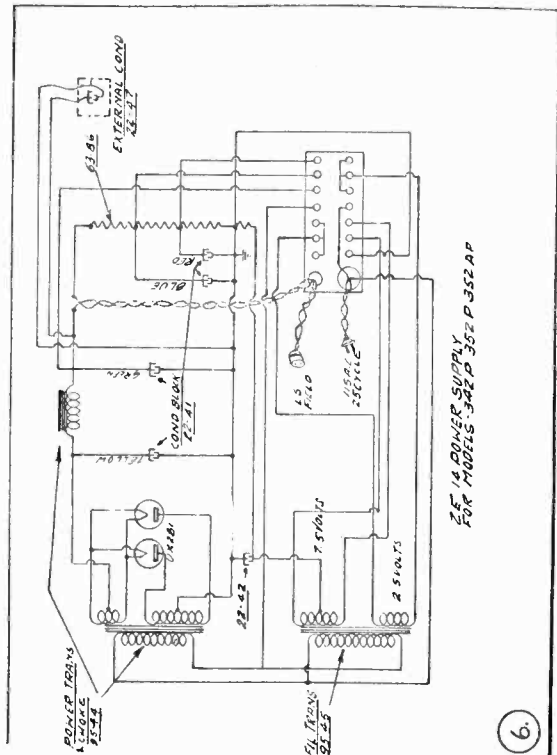
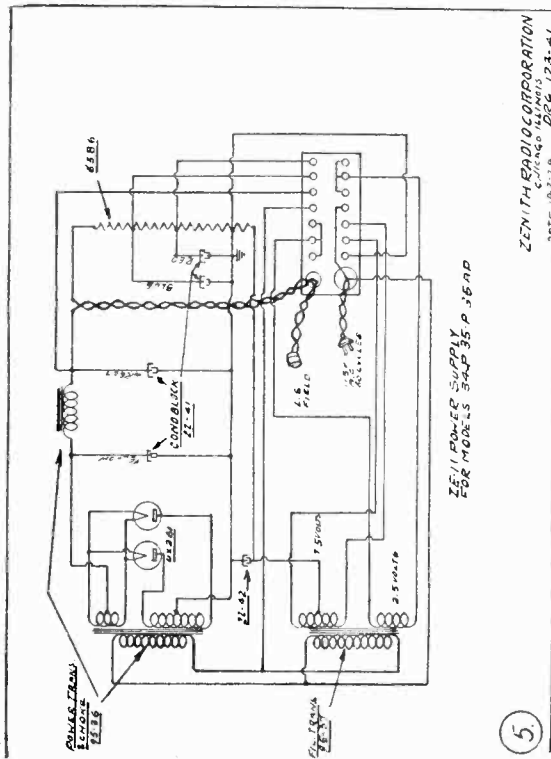
FRONT



WIRING DIAGRAM
MODEL 31-32
6 TUBE BATTERY SET

ZENITH RADIO CORP.

MODEL 34-P, 342-P
 MODEL ZE-11
 MODEL ZE-14

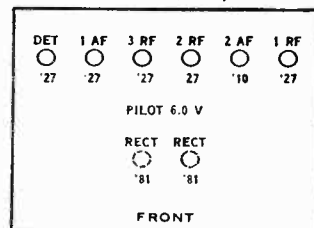


WIRING DIAGRAM
 MODELS 34P-342P
 6 TUBE ELECTRIC SET

ZENITH—Models 34P-342P
 Line Voltage 115

Models 34I, 342P (1928)

TUBE NO. IN ORDER	TYPE OF TUBE	POSITION OF TUBE BY RF DET EYE	READINGS PLUG SOCKET OF SET						
			TUBE OUT			TUBE IN TESTER			
A	B	C	A	B	C	GRID	PLATE	PLATE	
VOLTS	VOLTS	VOLTS	VOLTS	VOLTS	VOLTS	VOLTS	MA	MA	
227	1st. R.F.		2.05	90	5.5	—	2.7	4	1.3
227	2nd. R.F.		2.05	92	5.0	—	3.5	6.5	3.0
227	3rd. R.F.		2.05	92	5.0	—	3.5	6.5	3.0
227	Detector		2.00	40	0.0	—	2.2	2.2	0.0
227	1st. A.F.		2.05	84	5.0	—	2.4	3.6	1.2
210	2nd. A.F.		7.40	400	34.0	—	23	25	2.0
281	Rectifier		7.25	—	—	—	42	—	—
281	Rectifier		7.25	—	—	—	42	—	—

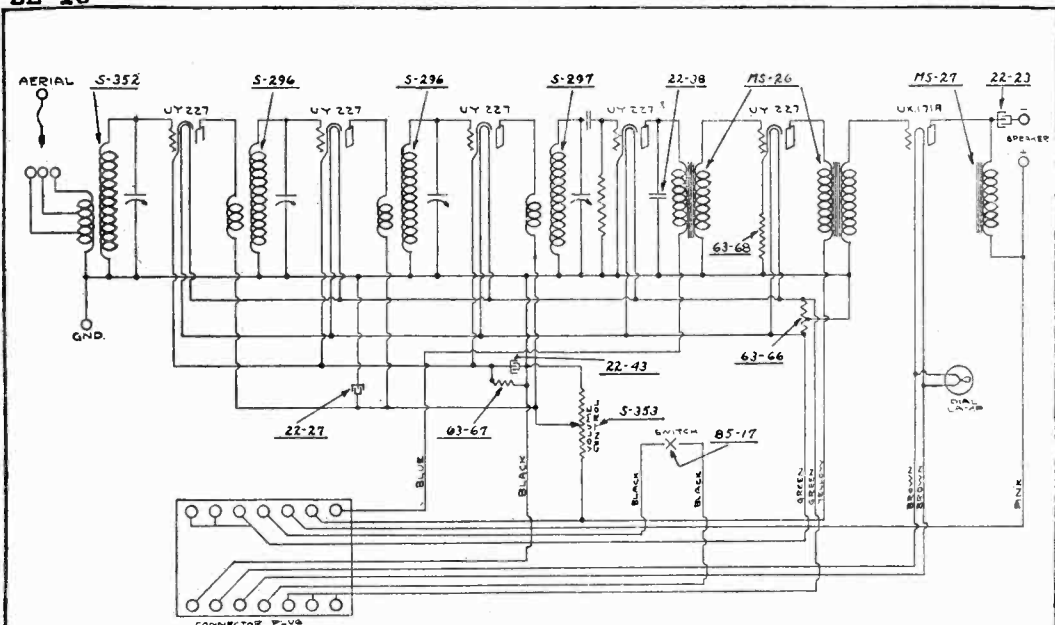


2 CX-381's used in separate power units.

MODELS 33, 34, 35, 35-A, 342,
352, 352-A, 362

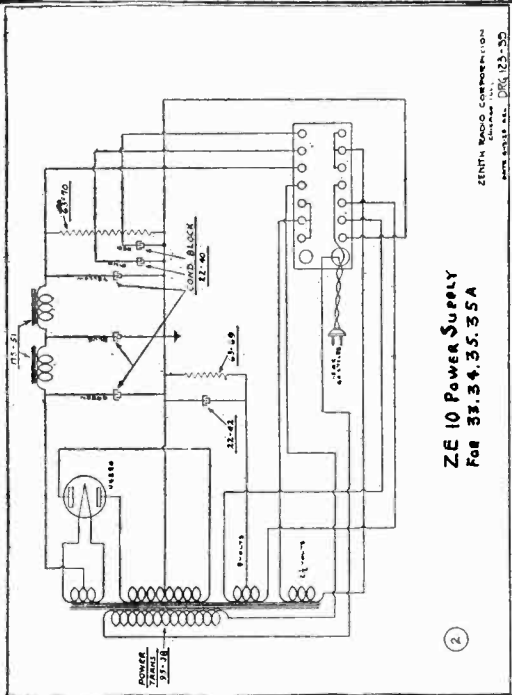
ZENITH RADIO CORP.

MODELS ZE-10
MODEL ZE-13

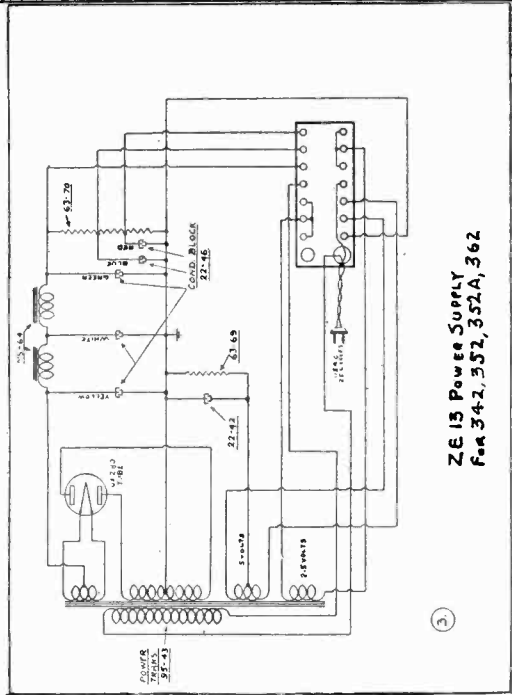


WIRING DIAGRAM
MODELS 33-34-35-35A-342-352-352A-362
6 TUBE ELECTRIC SET

ZENITH RADIO CORPORATION
CHICAGO ILLINOIS
DATE 4-12-35
DRG. 123-38



ZE 10 Power Supply
For 33, 34, 35, 35A

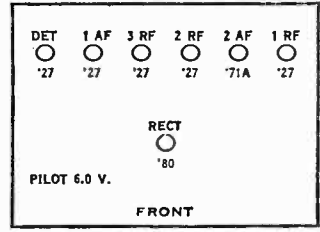


ZE 15 Power Supply
For 342, 352, 352A, 362

ZENITH—Models 33-34-35-35A-342-352-352A-362
Line Voltage 115—Volume Control Full for R. F. and
Center for A. F. on All Models

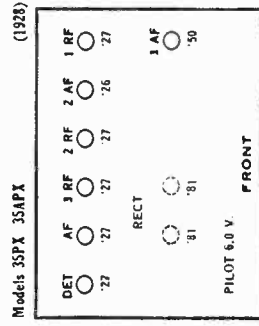
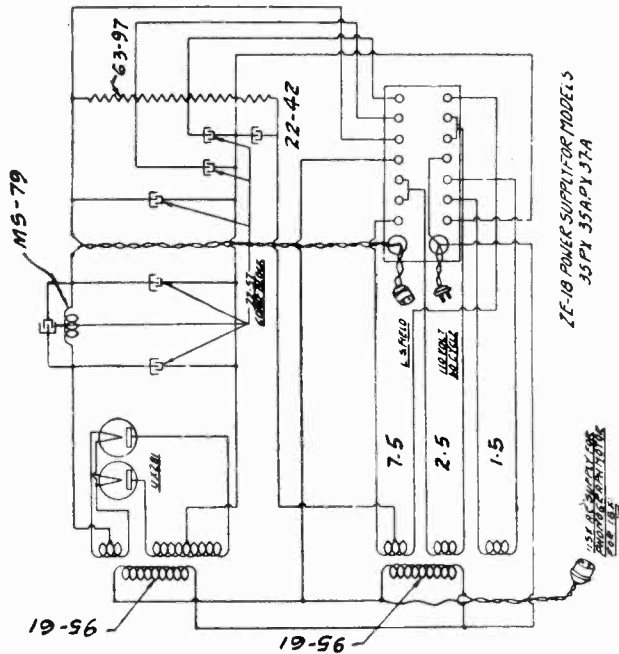
Models 34, 35, 35A, 342, 352, 352A, 362 (1928)

TUBE NO. IN ORDER	TYPE OF TUBE	POSITION OF TUBE (1ST, R.F., DET., ETC.)	READINGS, PLUG IN SOCKET OF SET						
			TUBE OUT			TUBE IN TESTER			
			A VOLTS	B VOLTS	C VOLTS	CATHODE VOLTS	NORMAL PLATE MA	PLATE MA GRID TEST	PLATE MA CHANGE
1	227	1st. R.F.	2.0	110	6	—	3.2	6.2	3.0
2	227	2nd. R.F.	2.0	110	6	—	3.2	6.2	3.0
3	227	3rd. R.F.	2.0	110	6	—	3.2	6.2	3.0
4	227	Detector	2.0	45	0	—	3.2	3.4	.2
5	227	1st. A.F.	2.0	105	6	—	3.2	4.5	1.3
6	171A	2nd. A.F.	4.75	120	40	—	15.0	16.0	1.0
7	280	Rectifier	4.9	—	—	—	22.0	—	—



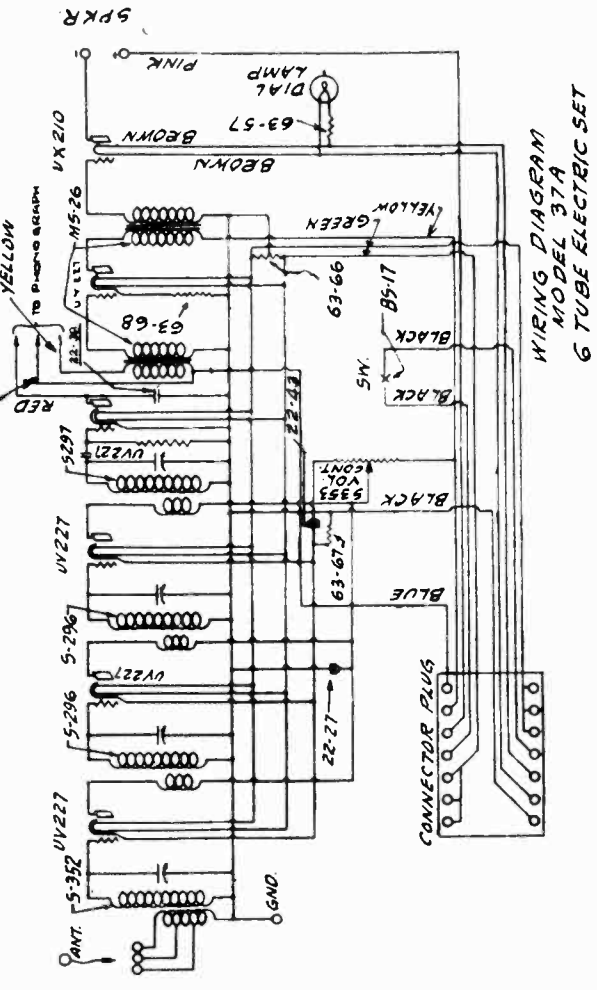
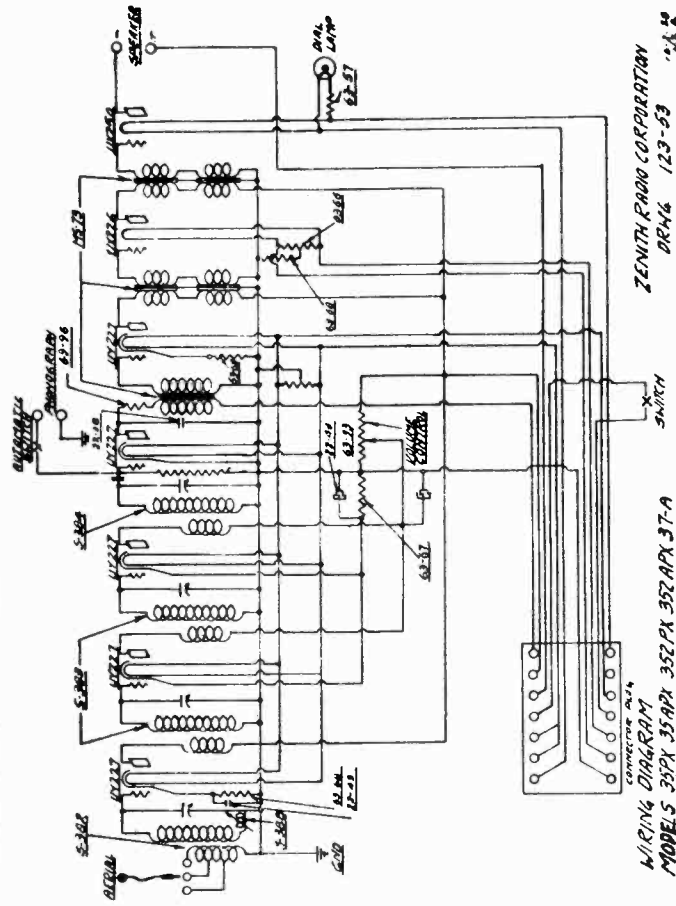
CX-380 used in separate power unit.

MODEL 37-A
**ZENITH RADIO CORP. MODELS 35-PX, 35-APX, 352-PX,
 352-APX**
 MODEL ZE-18

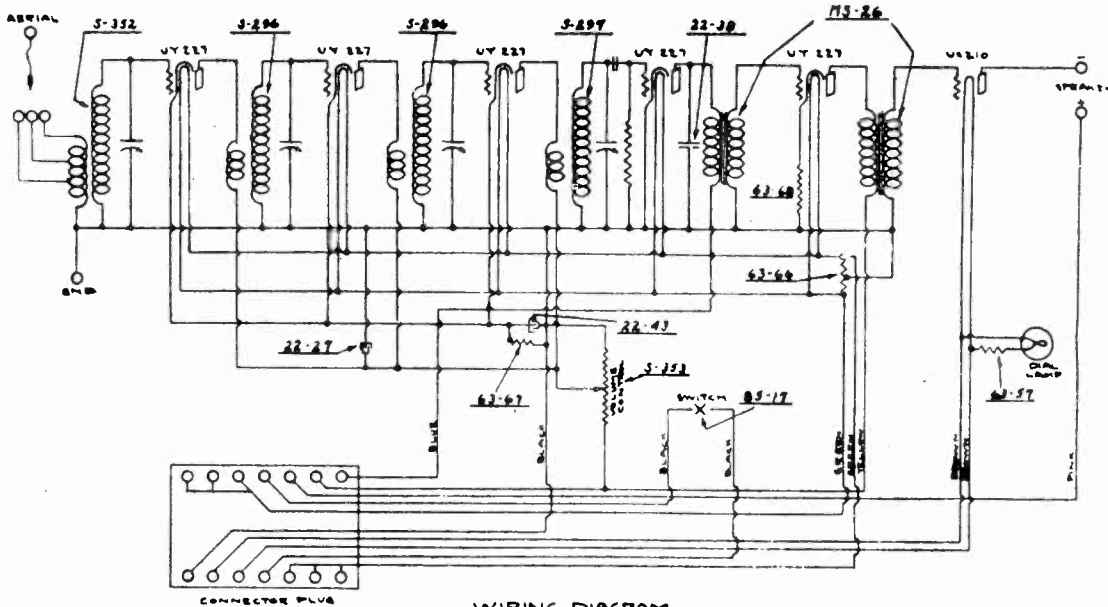


ZENITH—Models 35PX-35APX-352PX-352APX-37A
 Line Voltage 115

TUBE NO. IN ORDER	TUBE TYPE	POSITION OF TUBE IN SET	TUBE OUT		TUBE IN TESTER		RESIDUE PLUG IN SOCKET OF SET		
			A VOLTS	B VOLTS	A VOLTS	C VOLTS	NORMAL PLATE TEST VOLTS	PLATE TEST CHANGE	
1	227	1st. R.F.	2.1	104	6	—	3.5	4.6	1.3
2	227	2nd. R.F.	2.1	104	5	—	4.6	7.6	3.0
3	227	3rd. R.F.	2.1	104	5	—	4.6	7.6	3.0
4	227	Detector	2.0	24	0	—	1.3	1.4	4.1
5	227	1st. A.F.	2.1	85	6	—	2.7	3.6	4.9
6	227	2nd. A.F.	1.4	85	5.5	—	5.6	3.8	1.0
7	251	Rectifier	7.0	355	84	—	35.0	3.6	1.0
8	251	Rectifier	7.0	—	—	—	45.0	—	—



MODEL 35-F, 35-AP, 352-P, 352-AP
 MODEL ZE-11 for 35-P, 35-AP, 37-A ZENITH RADIO CORP.
 MODEL ZE-14 for 352-P, 352-AP

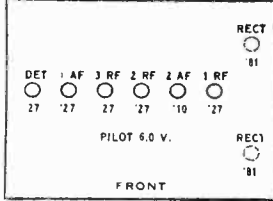


ZENITH—Models 35P-35AP-37A-352P-352AP
 Line Voltage 115

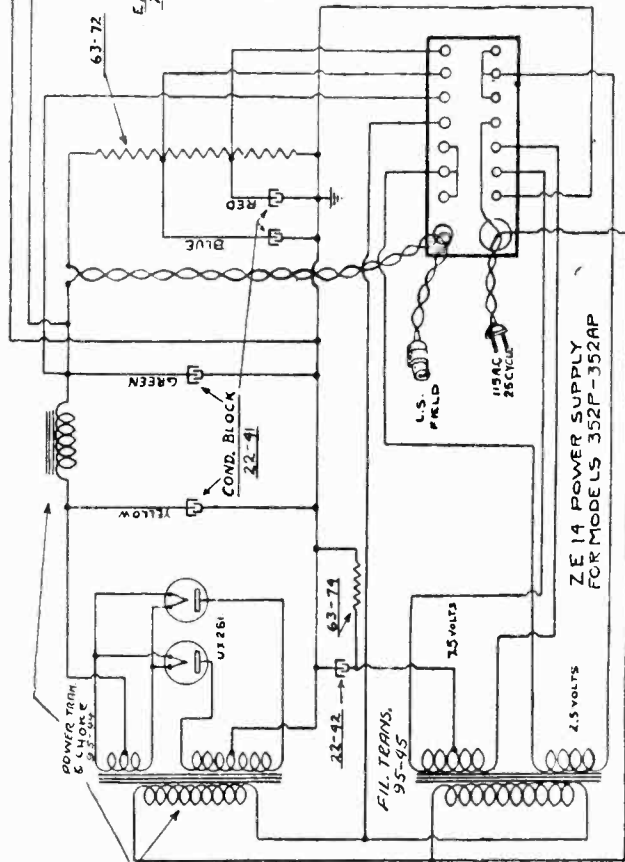
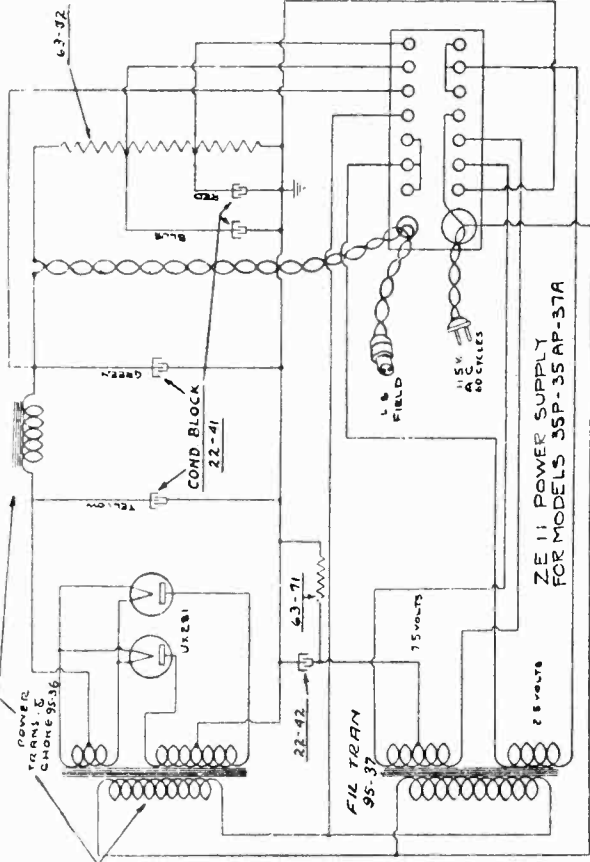
WIRING DIAGRAM
 MODELS 35P-35AP-352P-352AP
 6 TUBE ELECTRICAL SET

Models 35AP, 35P, 37A, 352P, 352AP (1928)

TUBE NO IN ORDER	TYPE OF TUBE	POSITION OF TUBE 1ST AF DET ETC	TUBE OUT		READING PLUG IN SOCKET OF SET		TUBE IN TESTER				
			A VOLTS	B VOLTS	A VOLTS	B VOLTS	C VOLTS	CATHODE VOLTS	NORMAL PLATE MA	PLATE MA GRID TEST	PLATE MA CHANGE
1	227	1st. R.F.	2.0	100	2.0	100	6	||	3.0	6.0	3.0
2	227	2nd. R.F.	2.0	100	2.0	100	6	||	3.0	6.0	3.0
3	227	3rd. R.F.	2.0	100	2.0	100	6	||	3.0	6.0	3.0
4	227	DETECTOR	2.0	45	2.0	45	6	||	3.0	3.2	0.2
5	227	1st. A.F.	2.0	100	2.0	100	6	||	3.0	2.0	1.0
6	281	2nd. A.F.	7.25	400	7.25	400	35	||	20.0	22.0	2.0
7	281		7.25		7.25				45.0		
8	281		7.25		7.25				45.0		

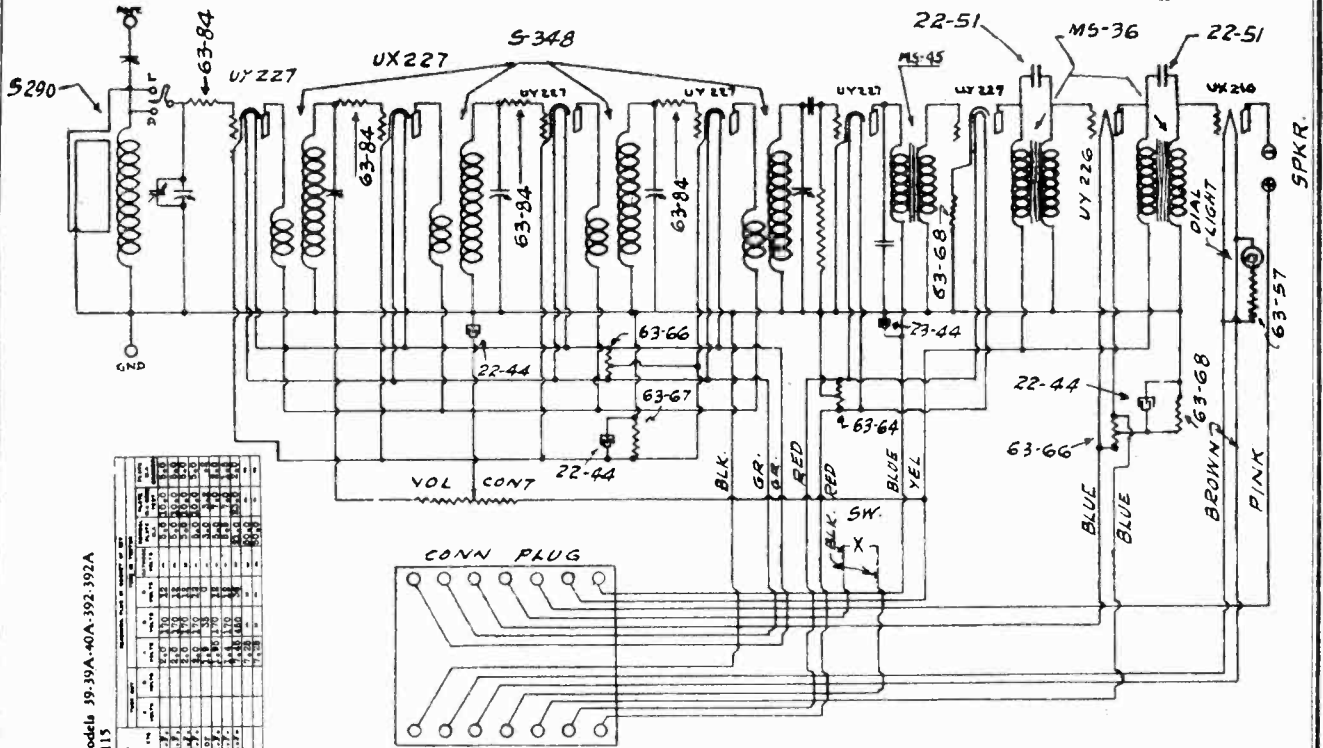


2 6X-381's used in separate power units.



ZENITH RADIO CORP.

MODELS 39, 39-A, 392, 392-A Receiver Schematic MODEL 40-A Receiver Schematic

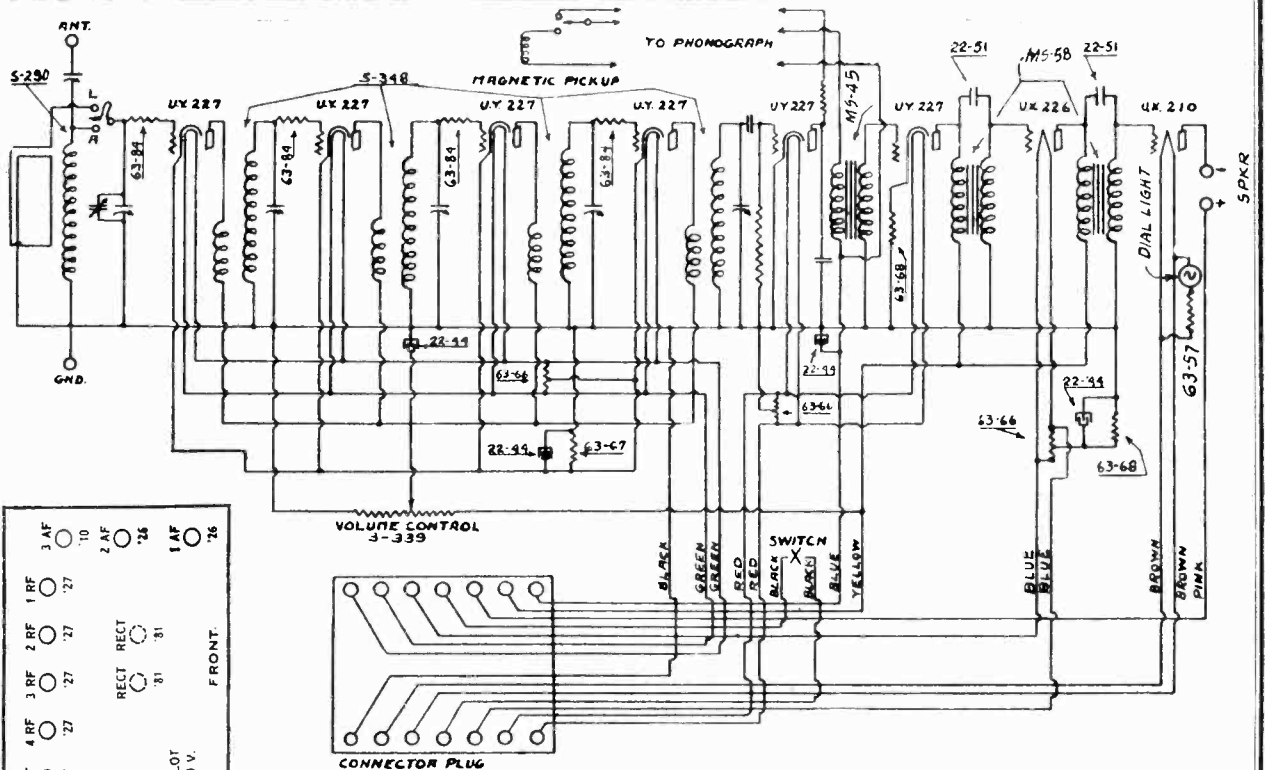


ZENITH—Models 39-39A-40A-392-392A
Line Voltage 115

Line Voltage	5290	UX 227	UY 227	M5-45	M5-36	UX 216
115	100	100	100	100	100	100
100	100	100	100	100	100	100
90	100	100	100	100	100	100
80	100	100	100	100	100	100
70	100	100	100	100	100	100
60	100	100	100	100	100	100
50	100	100	100	100	100	100
40	100	100	100	100	100	100
30	100	100	100	100	100	100
20	100	100	100	100	100	100
10	100	100	100	100	100	100

WIRING DIAGRAM
MODELS 39-39 A-392-392A ZENITH RADIO CORPORATION
CHICAGO ILLINOIS

DATE 4-17-20 DRG 123-43



Models 39, 39A, 40A, 392, 392A (1928)

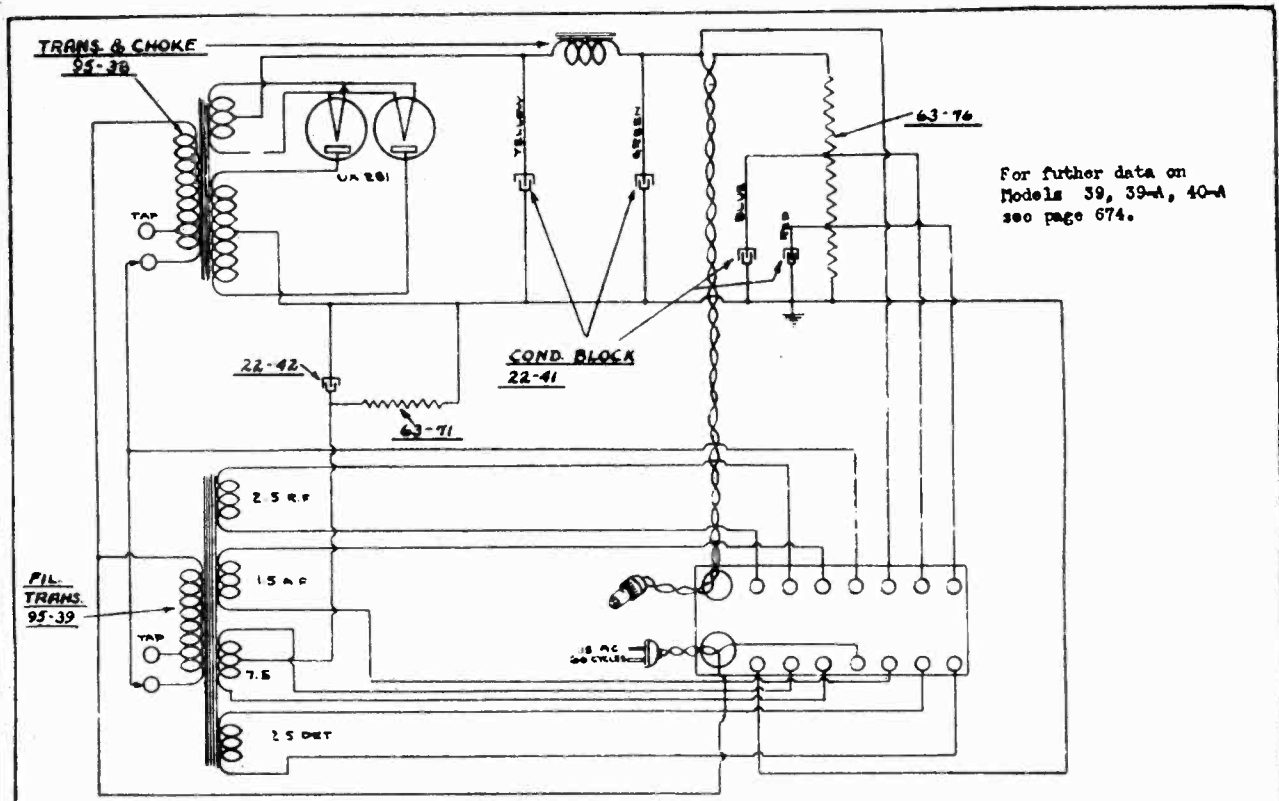
DET	4 RF	3 RF	2 RF	1 RF	3 AF	2 AF	1 AF	PILOT
27	27	27	27	27	10	16	16	6.0 V.

FRONT.

WIRING DIAGRAM
MODEL 40A

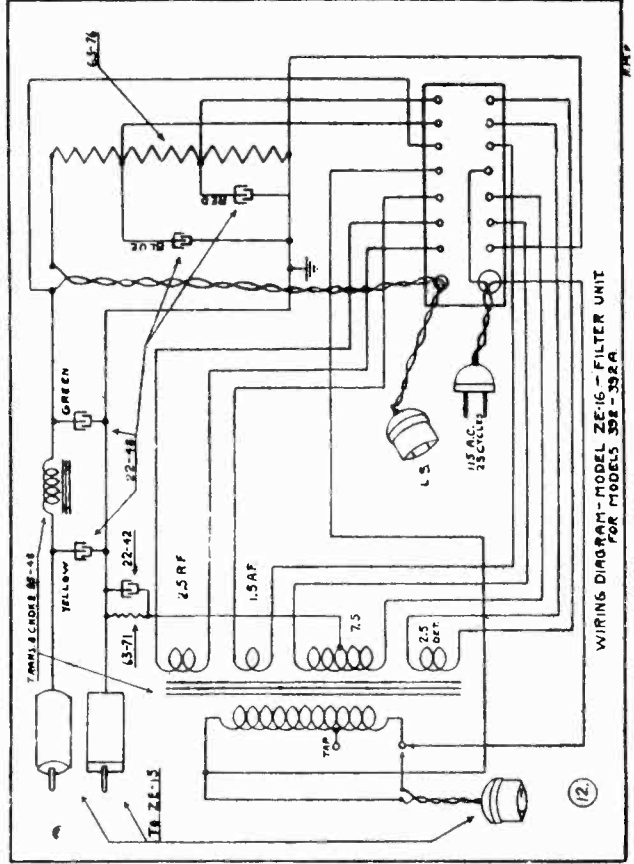
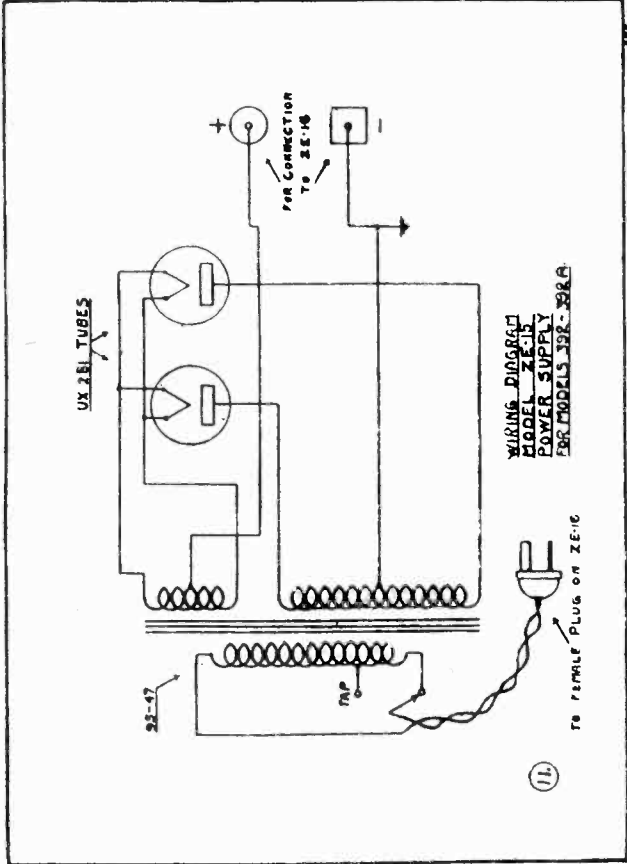
ZENITH RADIO CORPORATION
CHICAGO ILL
6-27-26 DRG 123-51

MODEL ZE-12 for 39,39-A,40-A
 MODEL ZE-15 for 392,392-A ZENITH RADIO CORP.
 MODEL ZE-16 Filter for above



For further data on Models 39, 39-A, 40-A see page 674.

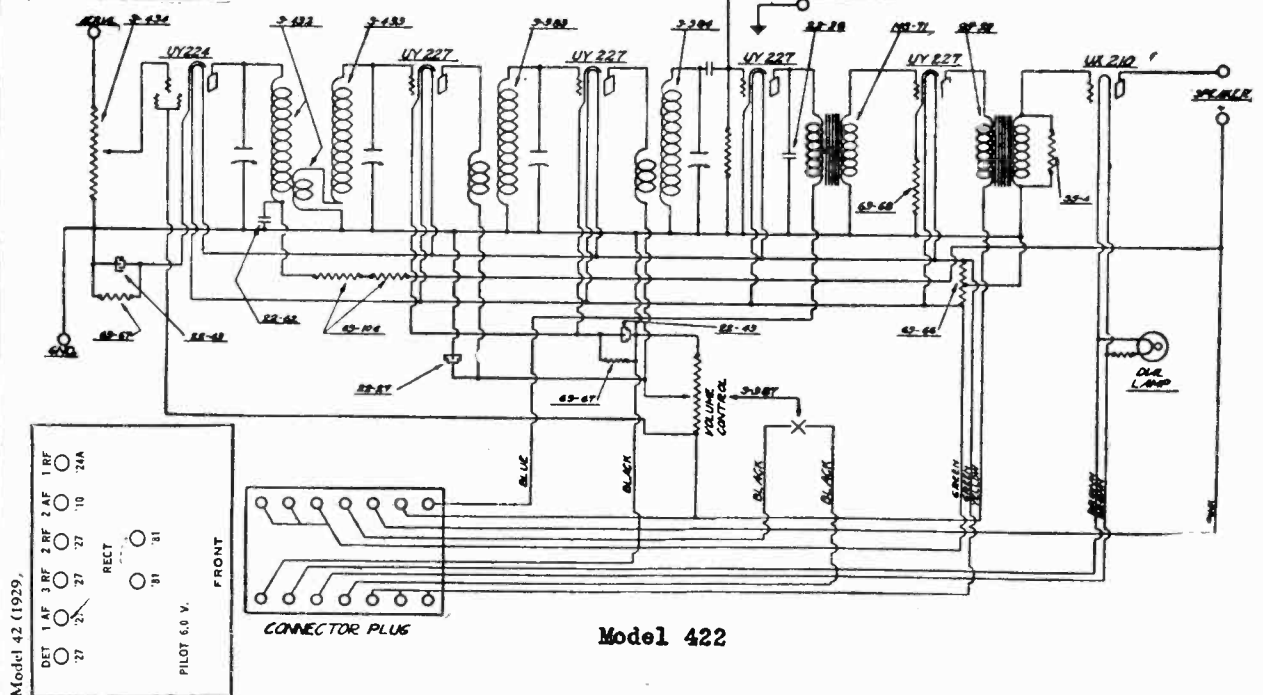
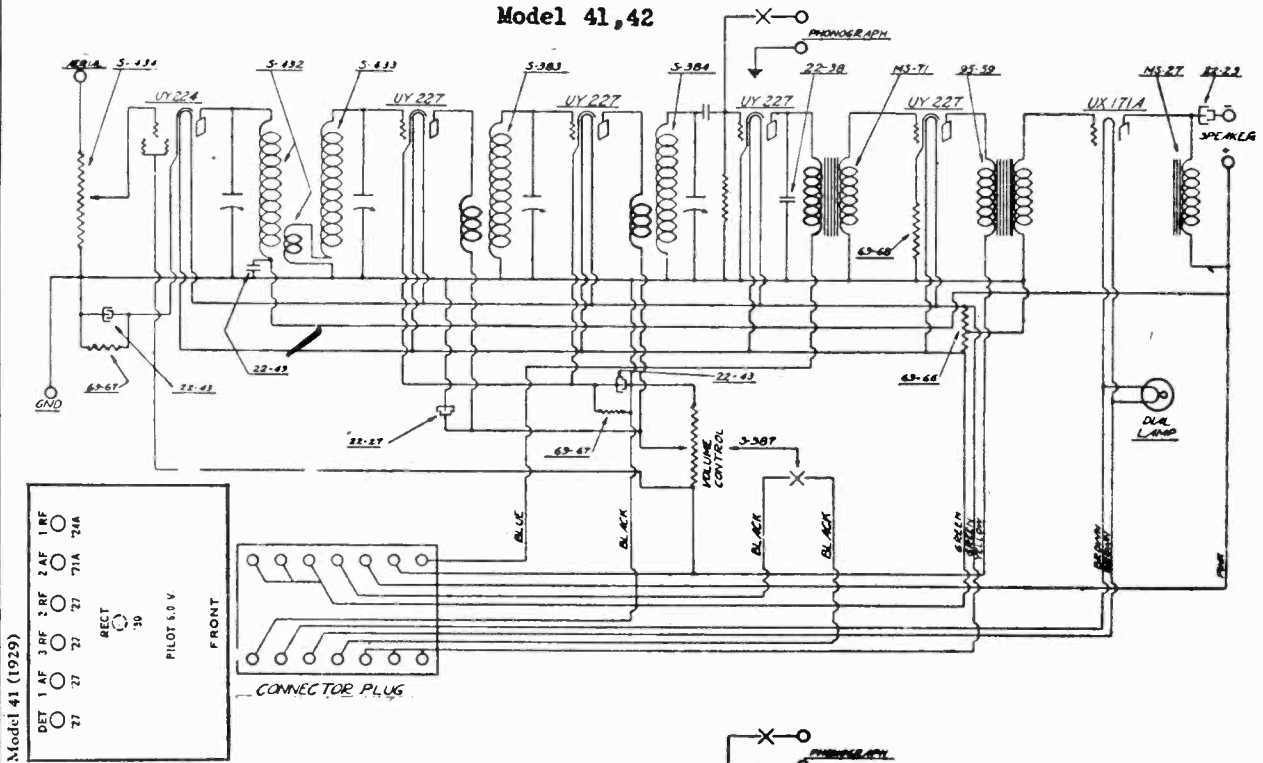
ZE 12 POWER SUPPLY FOR MODELS 39-39 A-40 A



ZENITH RADIO CORP.

MODEL 41,42
MODEL 422

Model 41,42



ZENITH—MODEL 42

Type Tube	Position of Tube	"A" Vts.	"B" Vts.	"C" Vts.	Plate MA.	Screen Grid	Cath. Volts
'24	1 R. F.	1.00	214	3	3.4	94	+2.2
'27	2 R. F.	1.00	80	4	3.5		+4
'27	3 R. F.	1.00	85	4	3.5		+4
'27	Det.	1.00	35		2.2		
'27	1 Aud.	1.90	78	4	2.5		+4
'10	2 Aud.	6.9	420	31	20		
'81	Rect.	6.9			45		
'81					45		

LV-115. Volume Control Max.

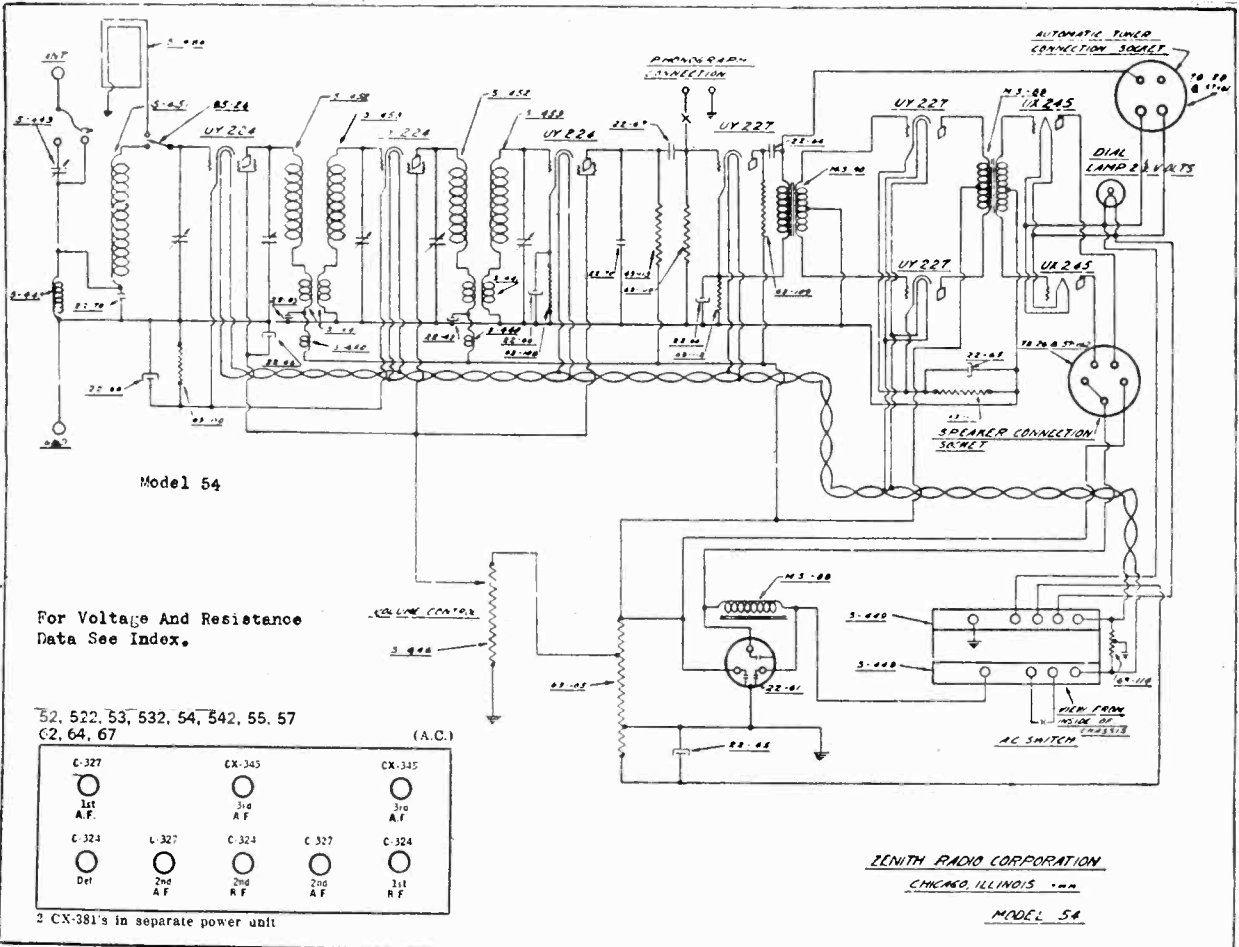
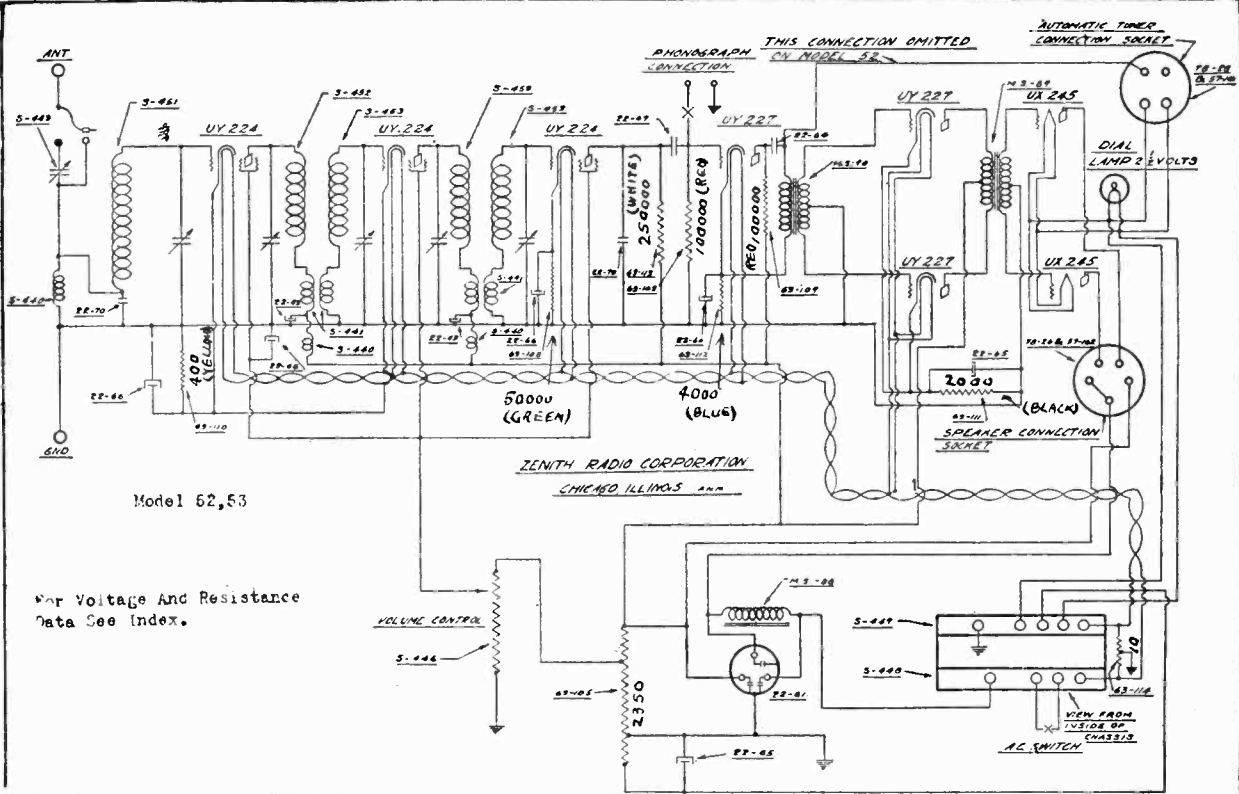
ZENITH—MODEL 41

Type Tube	Position of Tube	"A" Vts.	"B" Vts.	"C" Vts.	Plate MA.	Screen Grid	Cath. Volts
'24	1 R. F.	1.95	200	2	3	98	+2
'27	2 R. F.	2	95	4.5	4		+4.5
'27	3 R. F.	2	95	4.5	4		+4.5
'27	Det.	1.95	38		2.1		
'27	1 Aud.	2	80	4.5	3		+4.5
'71A	2 Aud.	4.2	145	29	14.5		
'80	Rect.	4.1			17.8		

LV-110. Volume Control Max.

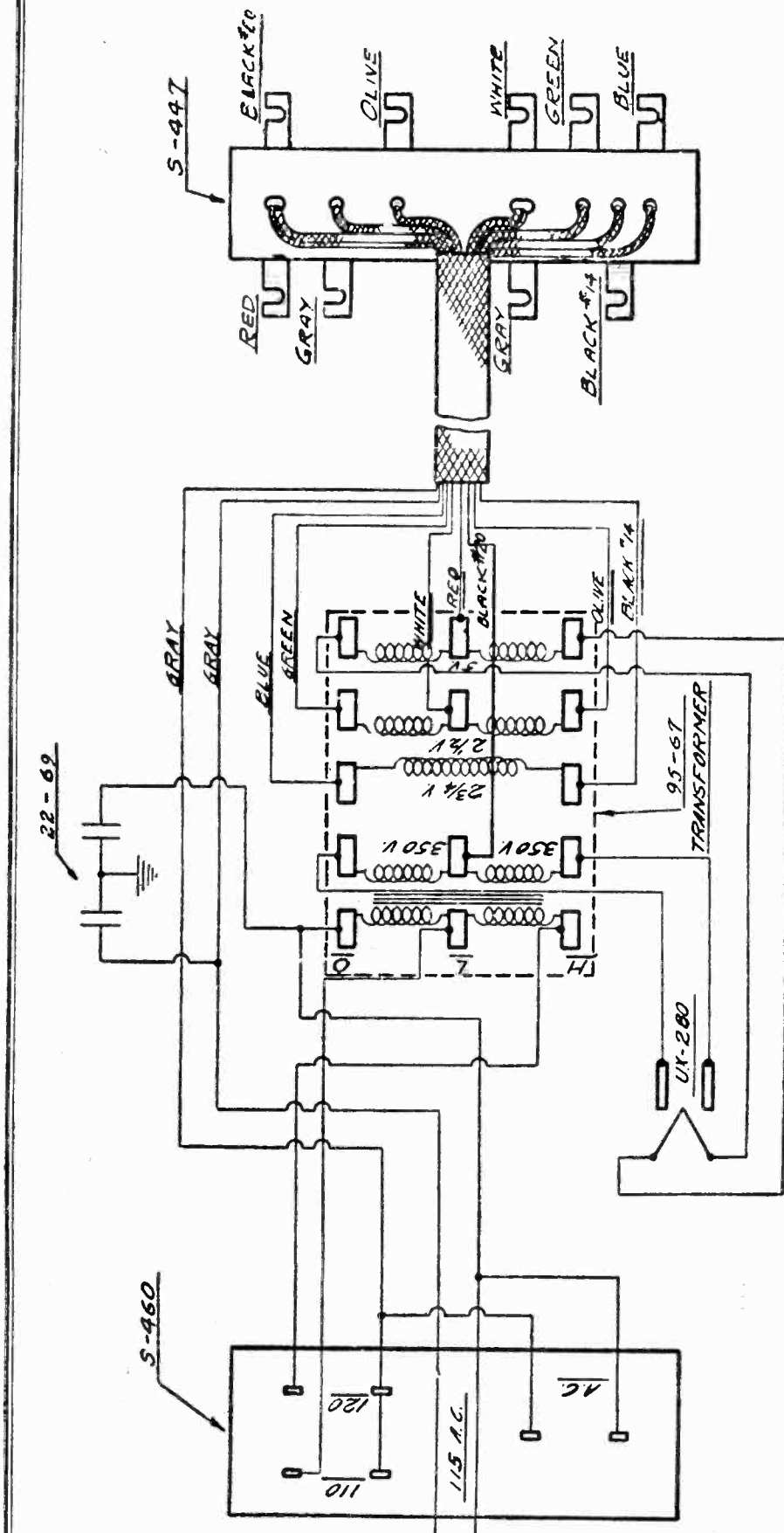
MODEL 52,53
MODEL 54
Schematic

ZENITH RADIO CORP.



ZENITH RADIO CORP.

MODEL 52,53,54,55
Voltage - Resistors
MODEL ZE-50
Power Unit



ZENITH—Models 52-53-54-55
Line Voltage 115—Set on 120 Volt Tap—Volume Control Position Full On
*The screen grid voltage on the detector tube is actually 50 volts but an electrostatic voltmeter would be needed to show true voltage.

TUBE NO. ORDER	TYPE	POSITION	TUBE OUT				READINGS, PLUG IN SOCKET OF SET.			
			A VOLTS	B VOLTS	C VOLTS	PLATE IN PLUG	CATHODE HEATER	NORMAL PLATE	PLATE SCREEN GRID	
22A	1st RF	1st RF	2.4	1.75	1	2	1.6	2.8	50	
22A	2nd RF	2nd RF	2.4	1.75	1	2	1.6	2.8	50	
22A	Det.	Det.	2.4	1.75	1	2	1.6	2.8	50	
227	1st AF	1st AF	2.4	90	5	5	0	0	—	
227	2nd AF	2nd AF	2.4	55	2	2	1	1.2	—	
227	3rd AF	3rd AF	2.4	143	14	14	4.3	5.7	—	
245	1st AF	1st AF	2.2	143	14	14	4.3	5.7	—	
245	2nd AF	2nd AF	2.2	248	45	24	28	—	—	
245	3rd AF	3rd AF	2.2	248	45	24	28	—	—	
250	Rect.	Rect.	4.7	—	—	—	—	100	—	

Color Code of Resistors in 50 Series

Resistor Code	Resistance
63-101	50000 ohms
63-109	100000 ohms
63-110	400 ohms
63-111	2000 ohms
63-112	4000 ohms
63-118	250000 ohms
63-121	100000 ohms

Green The voltage divider 63-105 has a total resistance of 6000 ohms tapped at 850 ohms from one end and 2800 ohms from the other end. The remaining section has a resistance of 2350 ohms. Mershon filter units are used.

Red Yellow

Black and 2800 ohms from the other end.

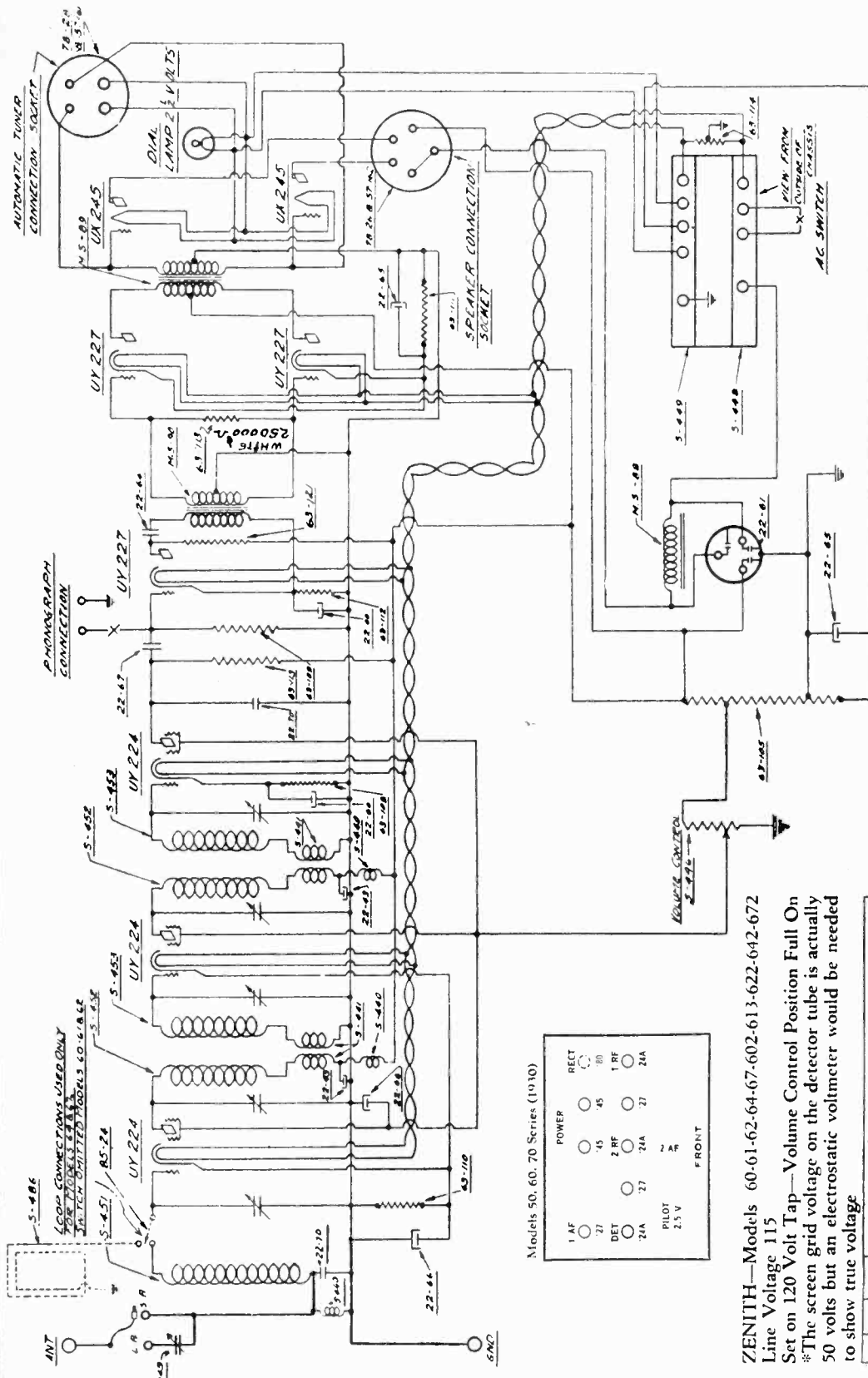
Blue end. The remaining section has a resistance of 2350 ohms.

White Mershon filter units are used.

Pink

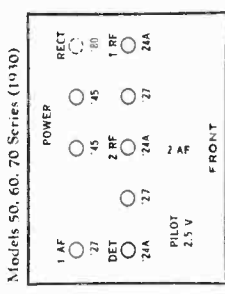
MODEL 60,61,62,64,67,602,
613,622,642,672
Schematic - Voltage

ZENITH RADIO CORP.



For wiring diagram of
power supply ZE 60 used
with the Series 60 receivers
see index

SINGLE VOLUME CONTROL
MODELS 60, 61, 62, 602, 612 AND 622 WITHOUT LOOP
MODELS 64, 67, 642 AND 672 WITH LOOP

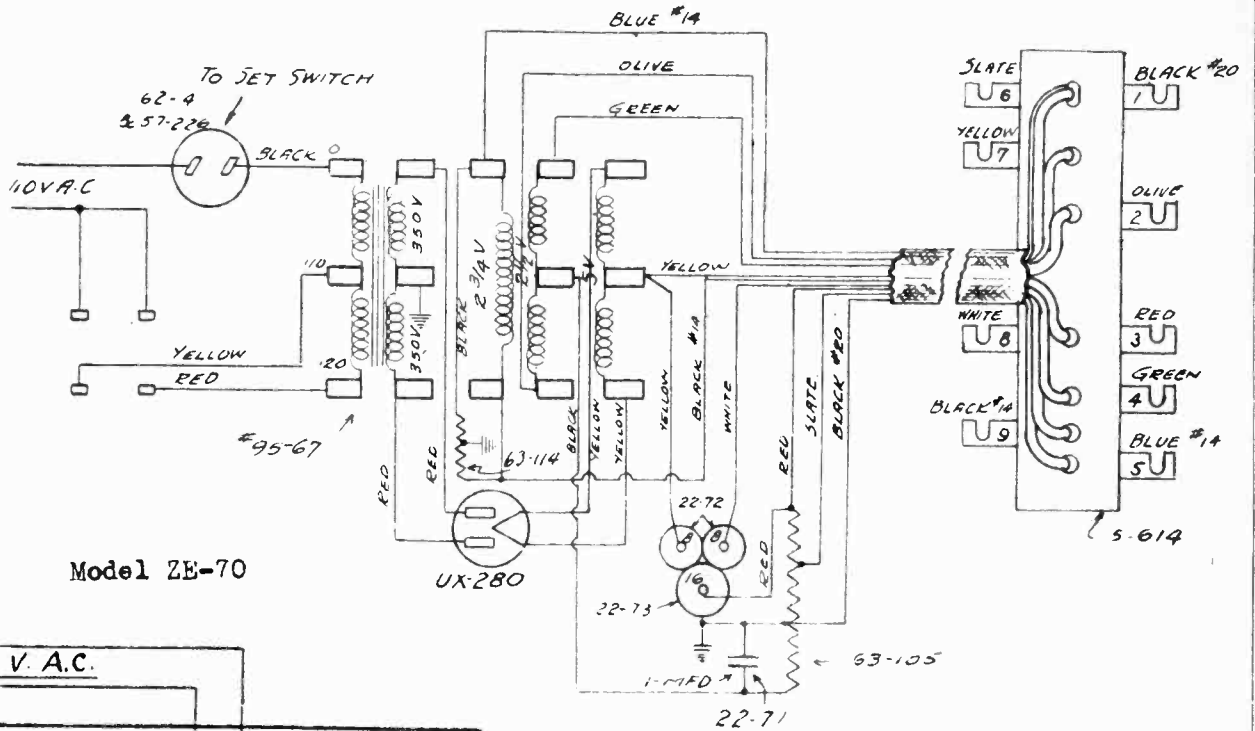


ZENITH—Models 60-61-62-64-67-602-613-622-642-672
Line Voltage 115
Set on 120 Volt Tap—Volume Control Position Full On
*The screen grid voltage on the detector tube is actually 50 volts but an electrostatic voltmeter would be needed to show true voltage

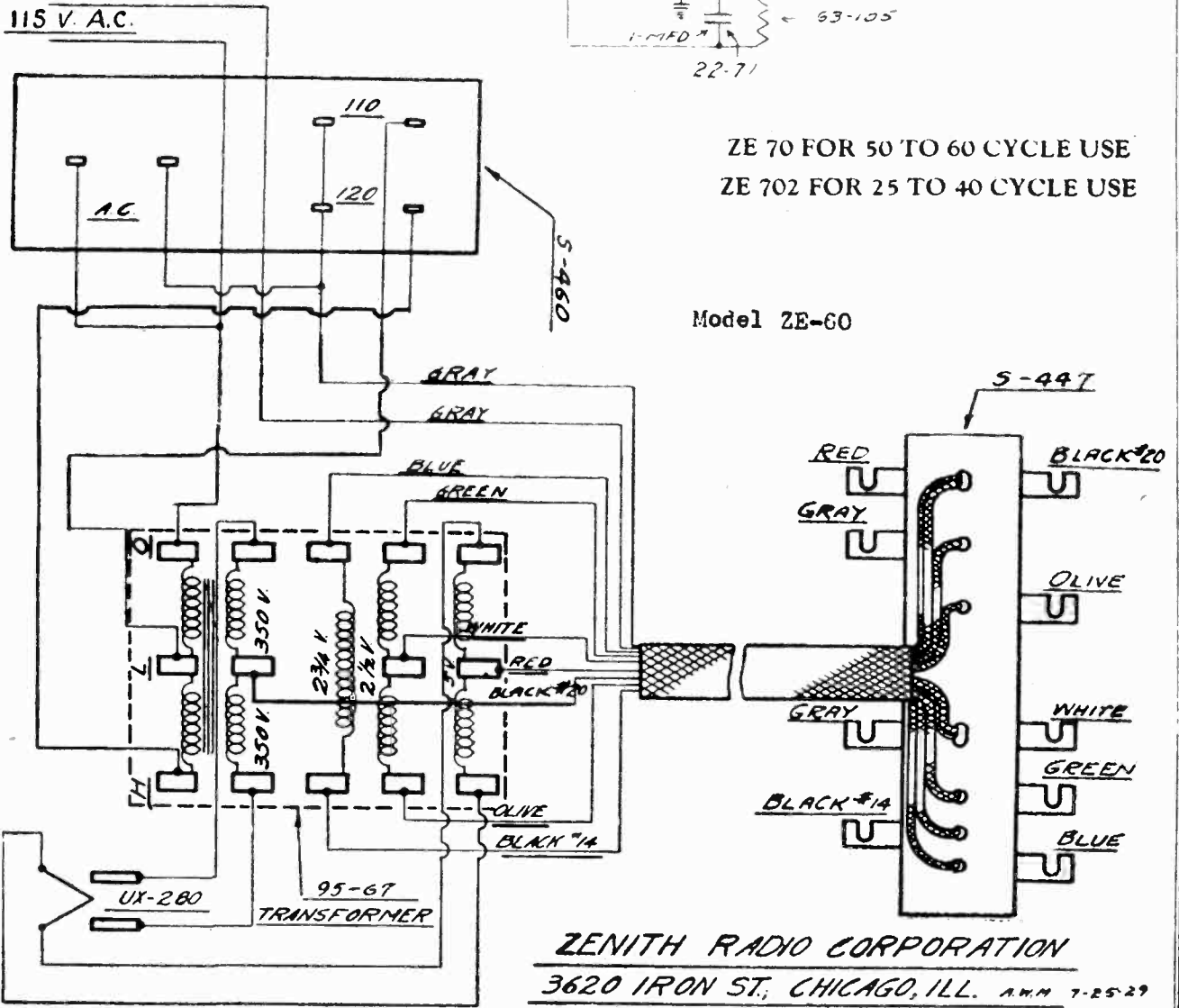
TUBE NO.	TYPE	RESISTANCE OF GRID RESISTOR	TUBE SOCKET	TUBE IN SOCKET			TUBE IN TESTER		
				NO. OF GRID RESISTORS	VOLTS (CATHODE NORMAL)	PLATE SCREEN	NO. OF GRID RESISTORS	VOLTS (CATHODE NORMAL)	PLATE SCREEN
1	27A	1	27	2	1.6	2.0	1.2	50	50
2	27B	2	27	2	1.6	4	2.4	50	50
3	227	1	227	5	2	0	0	—	—
4	227	1	227	2	1	1.2	2	—	—
5	27	1	27	14	4.3	5.7	1.4	—	—
6	27	1	27	14	4.3	5.7	1.4	—	—
7	27	1	27	24	28	4	—	—	—
8	27	1	27	24	28	4	—	—	—
9	27	1	27	100	—	—	—	—	—

ZENITH RADIO CORP.

MODEL ZE-60
MODEL ZE-70



ZE 70 FOR 50 TO 60 CYCLE USE
ZE 702 FOR 25 TO 40 CYCLE USE

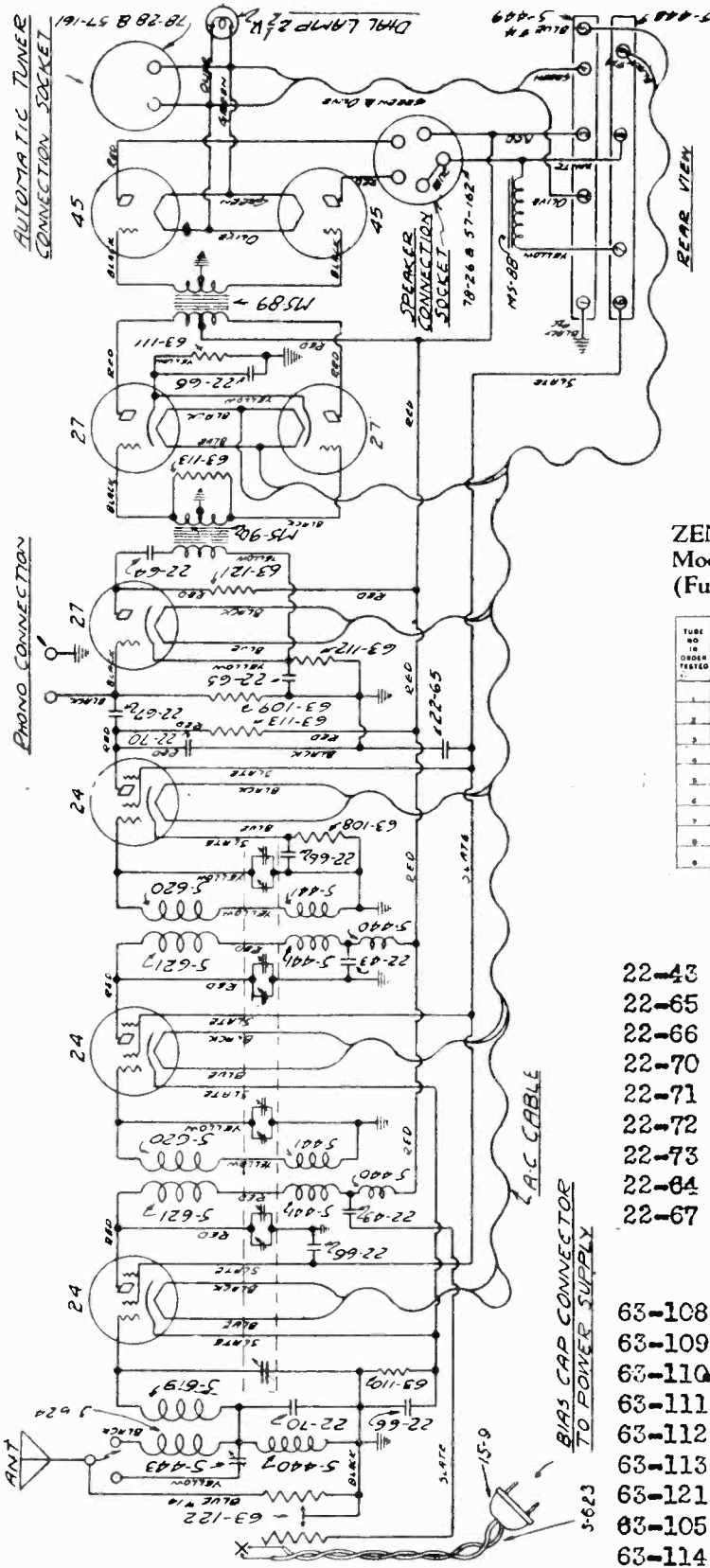


ZENITH RADIO CORPORATION
3620 IRON ST., CHICAGO, ILL. A.M.M. 7-25-29
ZE-60

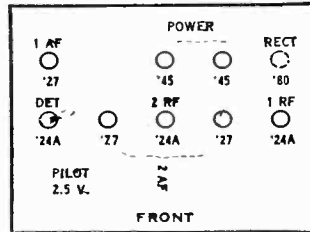
MODEL 71, 72, 73, 77, 712,
722, 732, 777

ZENITH RADIO CORP.

Schematic - Voltage
Electrical Values



Models 50, 60, 70 Series (1930)



For wiring diagram of
the power pack ZE-70
and ZE-702 for series
70 receivers see
Index

ZENITH—Models 71, 72, 73 and 77—60 Cycle
Models 712, 722, 732 and 777—25 Cycle
(Fuse in 110 Volt Clips—Line Volts 110)

TUBE NO. IN ORDER TESTED	TYPE OF TUBE	POSITION OF TUBE IN SET	METER READINGS WITH JEWELL TEST PLUG IN SOCKET OF SET						MILLIAMPERES	PLATE CURRENT CHANGE
			FILAMENT OR HEATER	PLATE OR ANODE	CONTROL GRID OR SPACE GRID	NORMAL GRID-SCREEN OR G2	CATHODE TO HEATER	SCREEN GRID TO PLATE			PLATE TO PLATE	TUBE TEST	PLATE CHANGE
224	1 R.F.	2, 5	185	2	55	2.5	-	2.5		
224	2 R.F.	2, 5	185	2	55	2.5	-	3.0		
224	Det.	2, 5	100	-	5	5	-	.1		
227	1 A.F.	2, 5	65	-	25	5	-	1.5		
227	PP-2nd	2, 5	160	-	13	13	-	3.4		
227	PP-2nd	2, 5	160	-	13	13	-	3.4		
245	PP-PFR	2, 3	260	-	52	-	-	38		
245	PP-PFR	2, 3	260	-	52	-	-	38		
280	Rect.	5, 0	-	-	-	-	-	-		

CONDENSER SPECIFICATIONS

- 22-43 .25 mf (2)
- 22-65 1. (double)
- 22-66 .2 (quadruple)
- 22-70 .001 (2)
- 22-71 1.
- 22-72 8. (2)
- 22-73 16.
- 22-84 .03
- 22-67 .15

RESISTOR SPECIFICATIONS

- 63-108 50000 ohms Green
- 63-109 100000 ohms Red
- 63-110 400 ohms Yellow
- 63-111 2000 ohms Black
- 63-112 4000 ohms Blue
- 63-113 250000 ohms White
- 63-121 100000 ohms Pink
- 63-105 voltage divider
- 63-114 10 ohms Center Tap

INSTALLATION OF TONE CONTROL ON MODEL 70 SERIES

Remove variable condenser shield. Unsolder lead from lower terminal on rocking stator and pull this lead through the base to under side of chassis.

Turn chassis up side down; remove the two machine screws from rear side of coil assembly base on the first R. F. coil can only

With chassis inverted, multicoord terminal strip facing the operator, remove the one machine screw from right hand end of chassis which is screwed through the chassis frame and into the R. F. coil assembly base.

Unsolder the two remaining leads, coming from the first R. F. coil can; the one at the antenna choke terminal; the other at the S. A. tip jack; also the copper shielding on lead going through 1st R. F. coil can.

The R. F. coil assembly base may now be forced back about one-half inch and this will permit the 1st R. F. coil can and its base to be lifted upward from the chassis.

Measure off a point midway between the volume control shaft and the rocking stator shaft centers; and 15/16" from chassis bottom (base plate removed.)

Center punch and drill a .378" dia. hole to take the 500,000 ohm variable resistor tone control shaft, and mount so soldering terminals on same point toward, and are next to the volume control.

Be sure the Textolite Insulating Strip is attached to the back of the tone control unit to prevent the terminals from shorting out when the R. F. coil can is again installed.

Mount the .01 mfd. fixed condenser by soldering one of its terminals directly to one of the outside terminals of the six point audio transformer; be sure to get the secondary side, or grid of the 245 output tube.

This condenser will be self-supporting.

Wire from the remaining .01 fixed condenser terminal to any one of the two terminals on the variable resistance tone control unit

Wire from the remaining terminal on this unit to the other side of the same secondary winding direct on six point audio transformer, or grid of the other 245 output tube.

Technically speaking this produces a series circuit consisting of a .01 mfd. fixed condenser and a 500,000 ohm variable resistor in shunt to the secondary circuit of the six point audio transformer, or from grid to grid of the 245 output tubes.

Run your two twisted leads through the slot in the R. F. coil assembly base, behind and to the right of the 1st R.F. socket (still viewing the chassis as before - inverted.)

Press the Textolite Insulating Strip on the back of the tone control unit into place and inspect to see that no terminals are shorted.

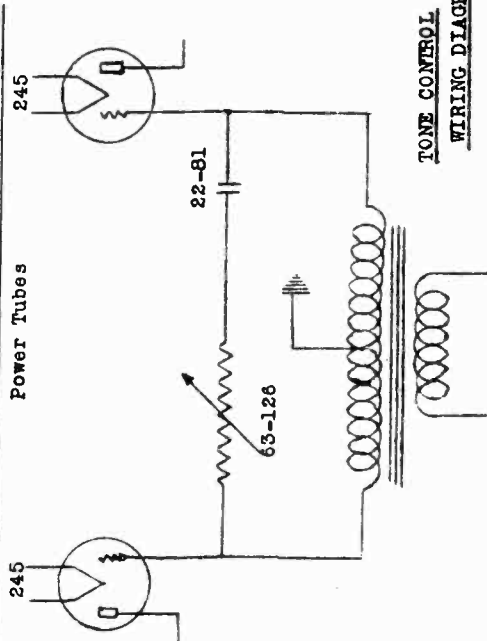
Replace the 1st R.F. coil can and base by first threading through the leads in the assembly base and work the coil can base in to place.

Insert the two screws you removed from this point on the base. Force the coil assembly base back into position, and insert the machine screw into same through chassis end.

Resolder all leads previously removed and put condenser shield in place. Be sure to resolder the copper shielding on the lead from 1st R.F. coil can previously unsoldered.

Turning tone control knob clockwise produces the treble effect and counter-clockwise the bass.

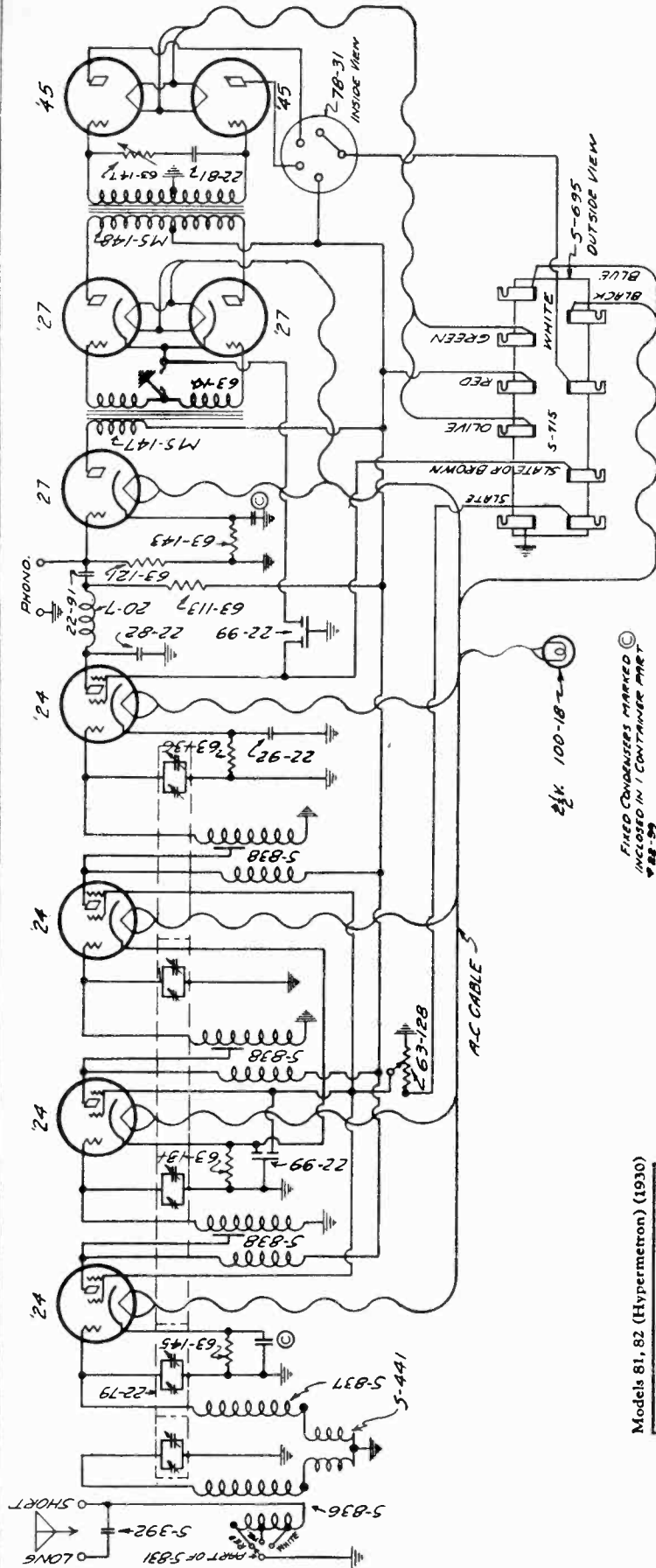
A small tone control escutcheon plate will be included and should be mounted on the cabinet panel to read correctly, the cabinet panel having been drilled with a 5/8" hole 1 1/16" from base centrally located between the resonance and volume controls.



MODEL 70
Tone Control
Installation

MODEL 80 Hypermetron
Schematic

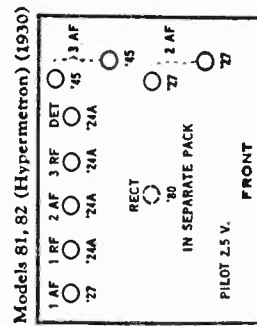
ZENITH RADIO CORP.



SIZE	COLOR	USED FOR
# 20	RED	+180. R.F. & A.F. PLATE LEAD.
# 20	WHITE	+250 FILTER CHOKE.
# 20	YELLOW	AUDIO CATHODES.
# 20	SLATE	SCREENS & CATHODES R.F.
# 20	BLACK	AUDIO GRID LEADS, GRID COMMON.
# 20	GREEN & OLIVE	POWER FILAS. & PILOT LIGHT.
# 14	BLACK	224 & 227 FILAMENTS.
# 14	BLUE	" " "
# 20	BROWN OR SLATE	224 DET. SCREEN.

FIXED CONDENSERS MARKED **C**
INCLUDED IN 1 CONTAINER PART
88-99

ZENITH RADIO CORP.
CHICAGO, ILL.
MODEL 80
HYPERMETRON



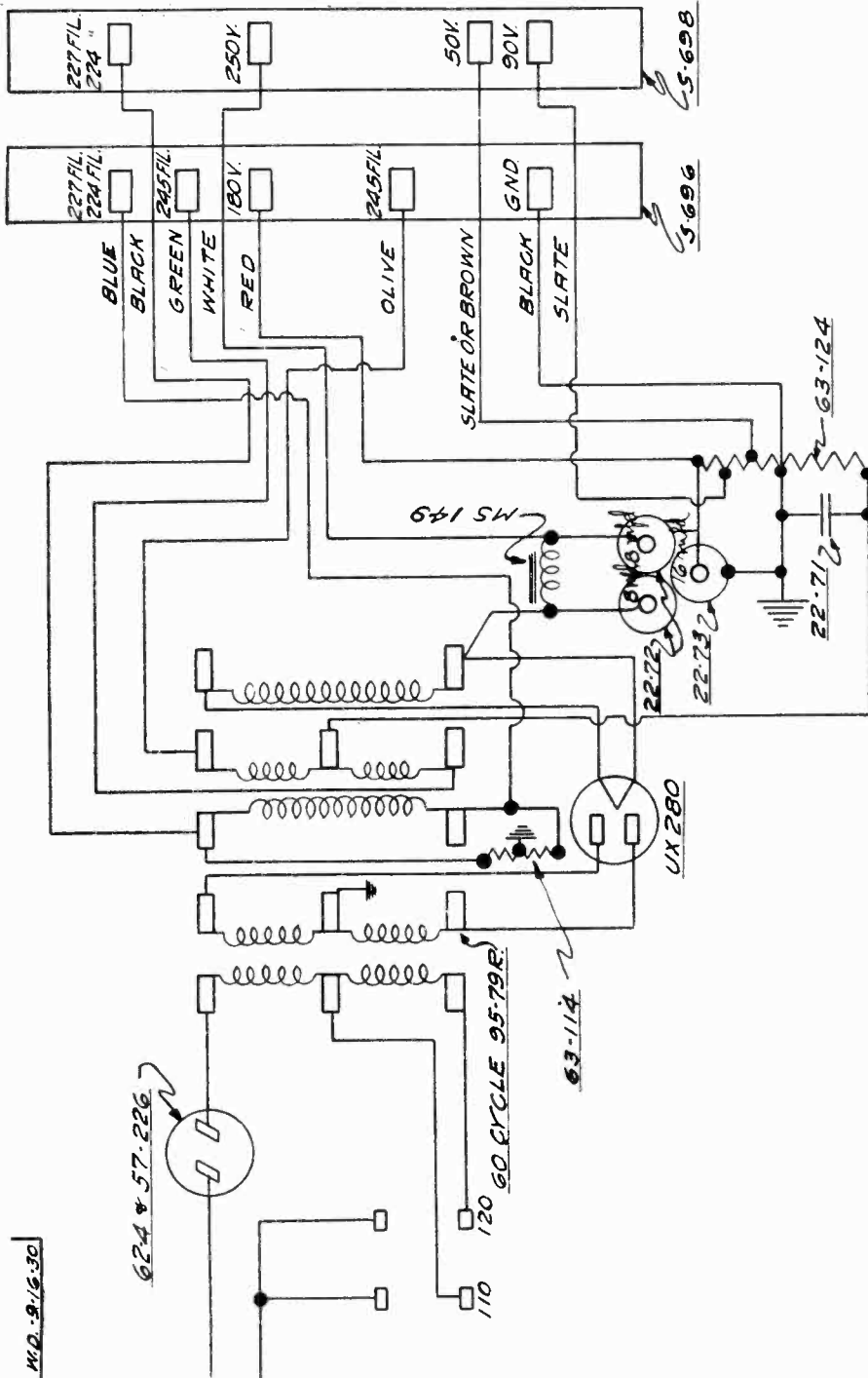
MODELS 81, 82, 89 (60 cycle) and 822, 892 (25 cycle) ZENITH HYPERMETRON RECEIVERS.

Models 82 and 89 Zenith Receivers operate on 105 to 125 volts, 50 to 60 cycle alternating current. Models 822 and 892 operate on 105 to 125 volts, 25 to 40 cycle alternating current (A. C.) The power supply ZE80 is used on 50 to 60 cycle current. The power supply ZE802 is used on 25 to 40 cycle current

ZENITH RADIO CORP.

MODEL ZE-80
Schematic
Parts List

VIEW FACING OUTSIDE
OF POWER SUPPLY.



POWER SUPPLY - ZE 80

78-32	Four Prong Socket for Rectifier.....	.....	.....
95-79	Power Transformer.....(60 Cycle)	.....	13.50
95-93	Power Transformer.....(25 Cycle)	.....	.50
136-2	2 Amp Fuse.....	.....	.10
S-696	Terminal Strip Assem.....(Five)	.....	.70
S-698	Terminal Strip Assem.....(Four)	.....	.70
S-700	Fuse Receptacle & A.C. Outlet Plate.....	.....	.20
MS-149	Power Choke.....	.....	3.50

22-71	1. mf Condenser.....(Power Bias).....	.....	1.10
22-72	8. " " " (Electrolytic).....	.....	2.50
22-73	16. " " " (Electrolytic).....	.....	5.50
Note: 16 mf Condenser can be identified by Blue marking on anode			
63-114	10 Ohm Center Tap Resistor.....	.....	.40
63-124	10, 450 " Voltage Divider.....	.....	1.60
57-226	Bias Plate.....	.....	.04
57-242	Bias Socket & Guide Plate.....	.....	.01

MODEL 80 Hypermetron
Parts List

ZENITH RADIO CORP.

HYPERMETRON

Variable Condenser Assembly

22-79	Five Gang Variable Condenser.....	20.00
S-829	Dial Drum Assembly.....	1.50
26-21	Calibrated Dial Strip.....	.20
S-703	Dial Lamp Bracket.....	.45
100-18	2½ Volt Dial Lamp.....	.25
11-2	Dial Control Cable.....	.05
80-70	Dial Control Cable Tension Spring.....	.01

Fixed Condensers

22-81	Single .01 mf Condenser.....(Tone Control Cond.)	.85
22-82	Single .001 " "(Detector Plate)....	.30
22-91	Single .03 " "(Audio Coupling)....	.50
22-92	Single .5 " "(Det. Cathode Bypass)	.75
22-99	Dual .1 " "(2nd RF & Det. Bypass)	.75
S-392	Antenna Series Condenser.....	.10

Resistors

63-113	250M Ohm Resistor.....(Red, Green End, Yellow Dot) ..	.35
63-121	100M " "(Pink).....	.35
63-131	400 " "(Yellow, Black End, Brown Dot)	.35
63-136	50M " "(Green, Black End, Orange Do)	.35
63-143	4M " "(Yellow, Black End, Red Dot)	.35
63-145	800 " "(Gray, Black End, Brown Dot)	.35
63-146	2000 " "(Red, Black End, Red Dot)...	.35

R.F. Coils

S-441	R. F. Coupling Coil.....	1.00
S-836	Preselector Coil.....(Coil Only).....	1.40
S-837	1st R. F. Coil.....(" ").....	1.00
S-838	2nd, 3rd R. F. & Det. Coils.....(" ").....	1.00
20-7	Detector Choke.....	.50
20-8	R. F. Choke.....	.50

Shields & Bases

4-87	Tube Shield Can Base.....	.05
126-62	Coil " " " ".....	.05
126-59	R. F. Coil Shield Can.....	.25
126-61	Tube Shield Can.....	.20
MS-153	Variable Condenser Shield.....	.75

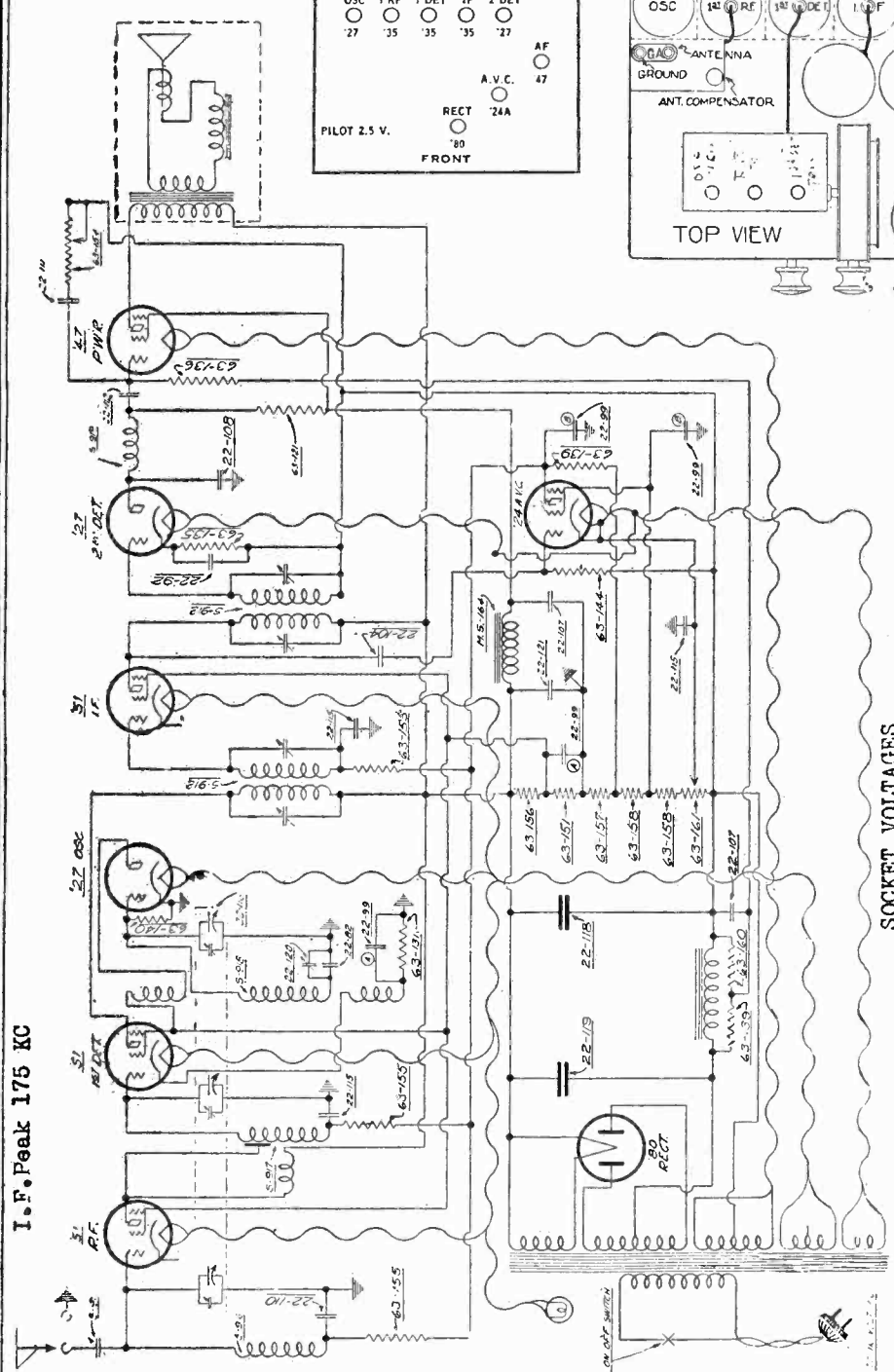
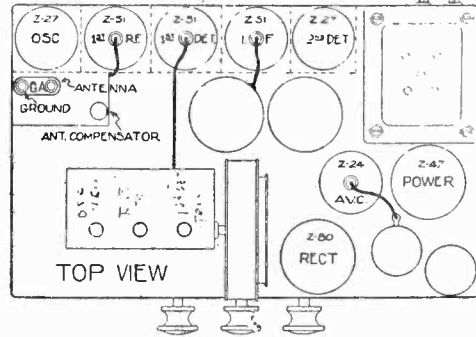
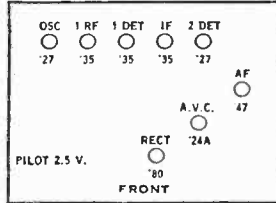
Miscellaneous

44-4	Phono Connector Base.....	.30
78-30	Five Prong Floating Socket.....	.20
78-31	Five Prong Stationary Socket.....	.20
78-32	Four Prong Stationary Socket.....	.20
57-161	UY Socket Guide Plate.....	.01
57-242	Four & Five Prong Socket Guide Plates.....	.03
63-128	Volume Control.....	1.50
63-147	Tone Control.....	1.25
85-26	Three Point Switch Base Less Shaft.....	.45
143-9	Three Point Switch Bushing with Contact Arm.....	.35
117-31	Three Point Switch Lever Arm.....	.01
S-695	Multicord & Terminal Plate Assembly.....	2.00
S-715	Multicord Terminal Plate Only.....	.50
52-23	Multicord only.....	1.25
MS-147	1st Stage Push Pull Transformer... (5 Lead).....	5.50
MS-148	2nd Stage Push Pull Transformer... (6 Lead).....	5.50

ZENITH RADIO CORP.

MODEL AH, CH, RH
Schematic
Voltage - Chassis

Models AH, CH, RH, 90 (1932)



I. F. Peak 175 KC

SOCKET VOLTAGES

Type	Position	Fil. Volts	Plate Volts	Control Grid Volts	Cathode Volts	Plate M.A.	S.G. Volts
Z51	R. F.	2.25	170	-4	0	4.5	64
Z51	1st Det.	2.25	165	-1.5	1.5	3.	62
Z27	Osc.	2.1	55	0	0	4.5	0
Z51	I. F.	2.5	180	-5.6	0	.75	80
Z27	2nd Det.	2.15	160	-14.5	8.5	.80	0
Z47	Power	2.3	250	-15	0	28.	250
Z24	A. V. C.	2.1	8	-5	0	0	40
Z80	Rect.	4.7	0	0	0	34. ca.	0

Voltage readings taken with a Weston type 566 tester. Manual volume control in maximum position and antenna and ground disconnected. Line voltage 112.

MODELS AH, CH, RH
Parts List
Servicing Data

ZENITH RADIO CORP.

I-F. ADJUSTMENT

The intermediate transformers employed between the 1st detector and I. F. tube and between the I. F. tube and 2nd detector have been accurately peaked to 175 kilocycles on a temperature controlled crystal oscillator before leaving the factory and unless the service man has an oscillator which is accurately calibrated at 175 kilocycles and feels that the intermediates are at fault, their adjustment should never be changed. However, in cases where it is necessary the test oscillator is first set to 175 kilocycles and coupled to the grid terminal of the first detector through a .00025 mf. fixed series condenser. The ground lead of the test oscillator is connected to the ground post of the receiver. (Indicated at point "A" in figure 2.) For this operation the oscillator tube of the receiver should be removed. Do not connect the test oscillator direct to grid of the first detector tube without the series condenser being in the grid lead, since by so doing, the bias resistor will be shorted out. Four adjusting screws are provided under the chassis (see figure 3). These verniers tune the plate circuit of the first detector, grid and plate circuits of the I. F. stage and grid circuit of the 2nd detector. (See wiring diagram.) Beginning at the second detector grid vernier, each adjusting screw is, in turn, set for maximum output. For best results the verniers should be gone over twice in the same rotation, always keeping the output from the test oscillator at the weakest possible strength.

BALANCING CHASSIS

Every Zenette Superheterodyne is carefully balanced on laboratory equipment before the set leaves the factory and should not require further attention. However, in the event that some part of the receiver has been changed or the adjustments shifted by mishandling it may be done as follows: Procure an oscillator which is calibrated to 1500 and 550 kilocycles. It is necessary that it be accurate, otherwise the receiver dial cannot be set properly. It will be best to remove the chassis from the cabinet for this operation in order to reach the oscillator padding condenser adjustment. (See figure 4) The test oscillator should be coupled to the antenna and ground posts of the receiver by the two leads now being furnished by the manufacturers of commercial oscillators. Although very good results may be had simply by judging audibility from the speaker, a more accurate method is to employ an output meter attached to the speaker transformer.

Before balancing any Zenette Superheterodyne the tuning condenser gang should be turned to maximum mesh position, namely the 550 kilocycle end of the scale. When the condenser is turned as far as it will go in this direction the dial index light must point to a position one division or channel beyond the 550 kilocycle line on the dial. If this condition does not already exist the index bracket should be adjusted up or down as the case may be.

The test oscillator should first be set to exactly 1500 kilocycles and attached to the antenna and ground posts, after which the receiver dial is also set to the 1500 kilocycle marking. With the manual volume control set to maximum volume, the oscillator trimmer (see figure 3) is adjusted to give maximum response in the speaker or greatest deflection of the output meter, if one is used. This vernier is extremely sharp and, therefore, great care should be used in its adjustment. The first detector section is next (see figure 3). This is the right hand section from the front. Its trimmer must also be varied for maximum response.

It will be noted that the center section of the condenser gang does not have a vernier adjustment. This is provided by the antenna compensating condenser. This section will automatically resonate by adjusting the antenna compensator after the set is connected to the aerial which is to be permanently employed. It is done by tuning to a very weak station at between 1500 and 1300 kilocycles on the dial and turning the manual volume control to the position of maximum volume. The compensator knob varies the capacity of a small series condenser and should be turned for greatest signal strength by turning first to the right and then to the left and allowed to stay at a point of maximum volume.

After making the above adjustment at 1500 kilocycles it will be necessary to then set the test oscillator at 550 kilocycles. Tune the set to 550 kilocycles and rock the receiver dial back and forth over the test oscillator signal at the same time adjusting the oscillator padder condenser (see figure 4). An adjustment of the padder will be found which gives maximum output. When this has been done it is necessary to go back to 1500 kilocycles on both the test oscillator and the dial and readjust the oscillator vernier if necessary.

In case a test oscillator is not available the service man may use a weak station on the low frequency end and another station on the high frequency end with the manual volume control in the maximum position.

RESISTORS

No.	PART	DESCRIPTION
63-121	100M ohm Detector Plate	Brown, black end, yellow dot
63-131	400 ohm 1st Det. Cathode	Yellow, black end, brown dot
63-135	25M ohm	Red, green end, orange dot
63-136	50M ohm Power Tube Grid	Green, black end, orange dot
63-139	500M ohm A. V. C. Plate	Green, black end, yellow dot
63-140	1 meg. ohm Osc. Grid	Brown, black end, green dot
63-144	3 meg. ohm A. V. C. Grid	Orange, black end, green dot
63-151	15M ohm Voltage Divider	Brown, green end, orange dot
63-155	1M ohm R. F. 1st Det. I. F.	Brown, black end, red dot
63-156	10M ohm Voltage Divider	Brown, black end, orange dot
63-157	100 ohm Voltage Divider	Brown, black end, brown dot
63-158	1720 ohm Voltage Divider	Brown, purple end, red dot
63-160	100M ohm Power Tube Bias	Brown, black end, yellow dot

CONDENSERS

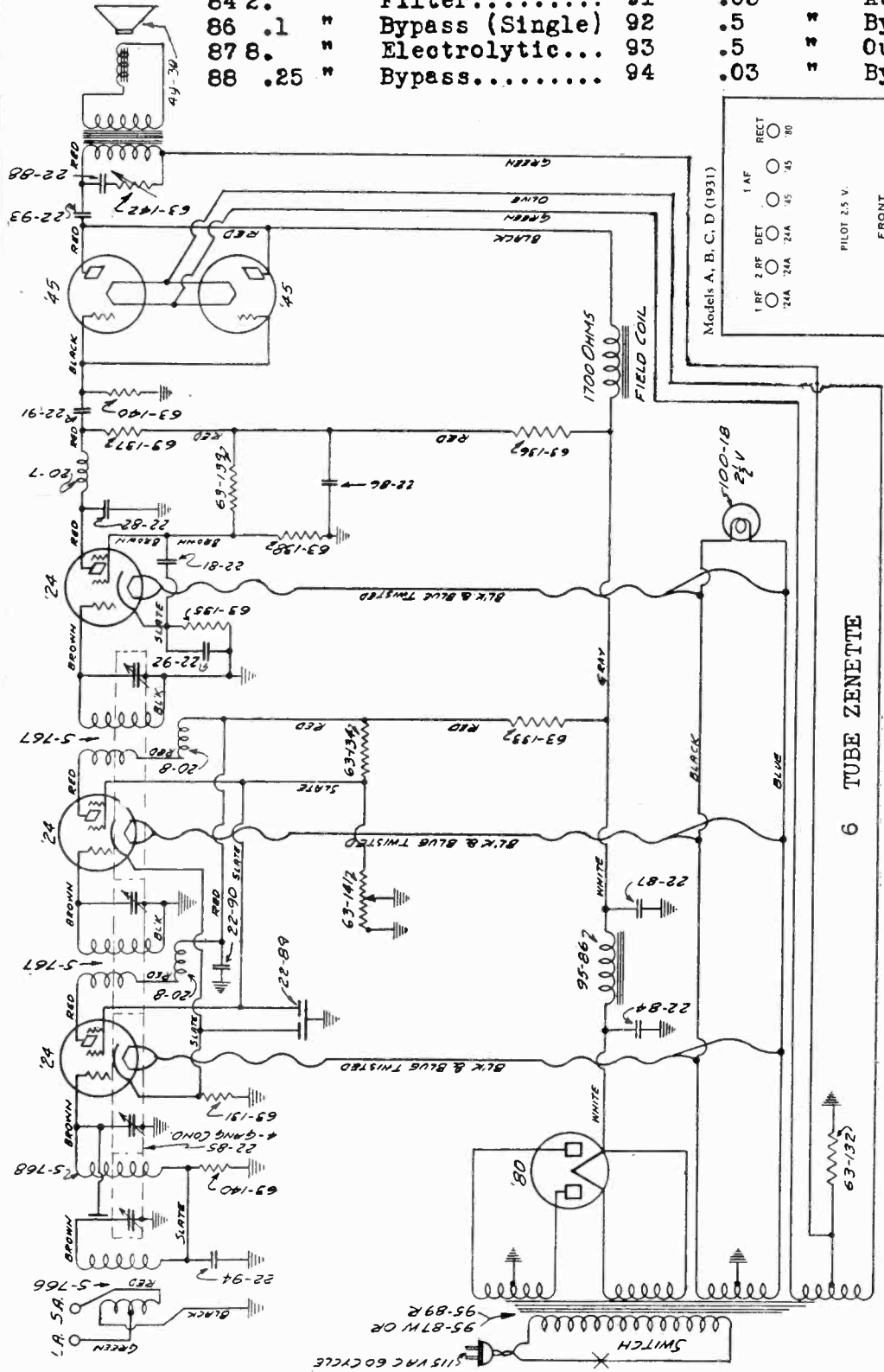
No.	PART
22-82	.001 mf
22-92	.5 mf
22-99	.1 mf (Dual)
22-104	.0001 mf
22-107	.5 mf
22-108	.001 mf
22-110	.1 mf
22-111	.03 mf
22-112	.1 mf
22-115	1 mf Electrolytic. A.V.
22-118	6. mf Electrolytic. A.V.
22-119	6. mf
22-121	8. mf

MODEL 6 Tube Zenette
 Chassis A,B,C,D (2004)
 Schematic, Parts List

ZENITH RADIO CORP.

CONDENSERS

22-81	.01 mf	Bypass.....	89	.1	Bypass (Double)
82	.001 "	"	90	.1	Bypass (Single)
84	2.	Filter.....	91	.03	Audio Coupling.
86	.1 "	Bypass (Single)	92	.5	Bypass.....
87	8.	Electrolytic...	93	.5	Output.....
88	.25 "	Bypass.....	94	.03	Bypass.....



Models A, B, C, D (1931)

1 BF	2 PF	DET	24A	24A	45	45	80
○	○	○	○	○	○	○	○

PILOT 2.5 V.
FRONT

RESISTORS

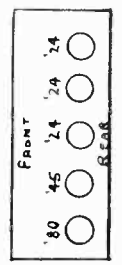
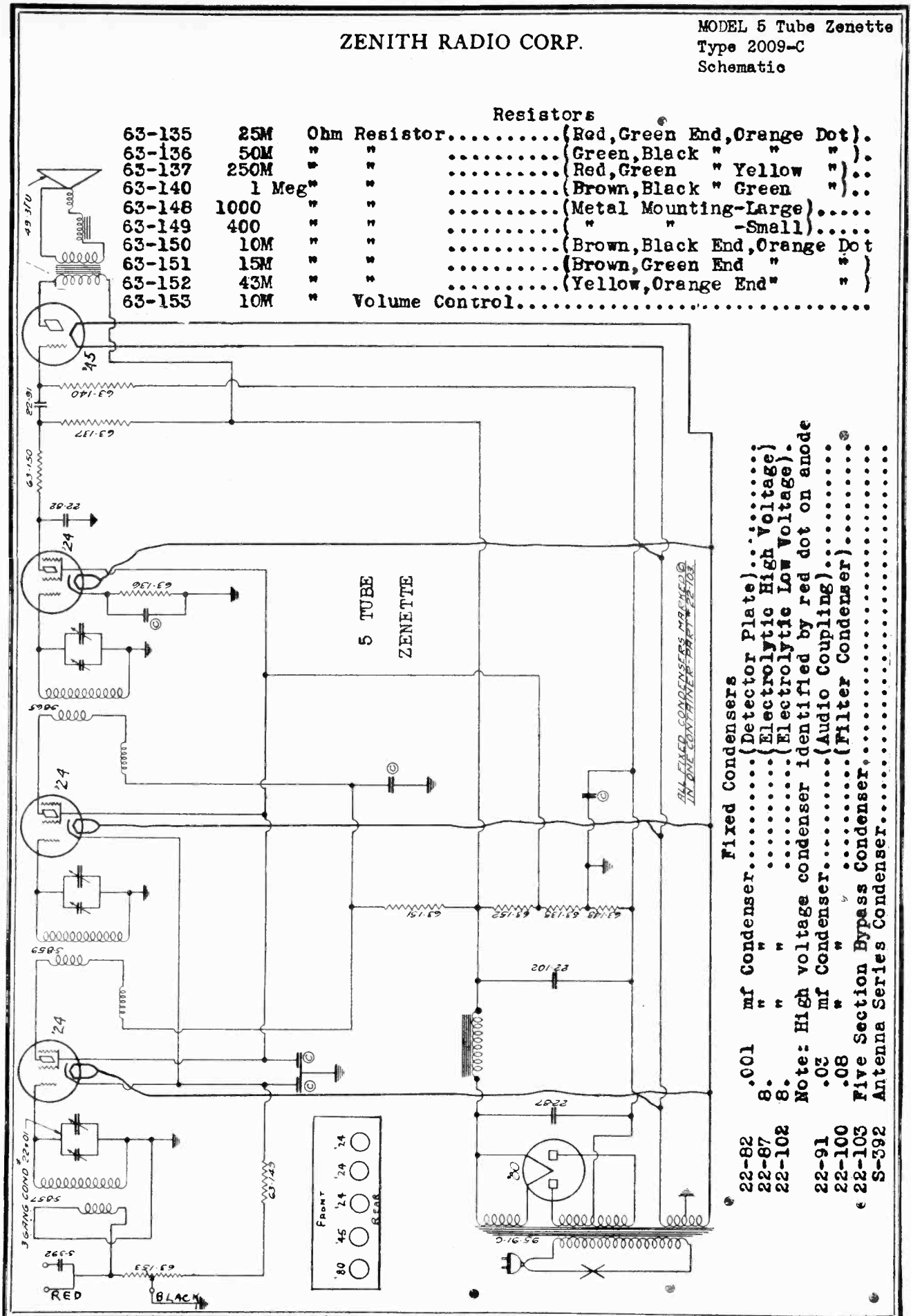
63-131	400 ohm	(Yellow Brown Dot)	137	250M	" (Red Yellow Dot)
132	900 "	(White ")	138	350M	" (Orange Yellow)
133	25M	(Red Orange) Large	139	500M	" (Green Yellow)
134	35M	(Orange) Small	140	1 Meg	" (Brown)
135	25M	(Red Orange Dot)	141	50M	" Volume Control
136	50M	(Green)	142	50M	" Tone Control

ZENITH RADIO CORP.

MODEL 5 Tube Zenette
Type 2009-C
Schematic

Resistors

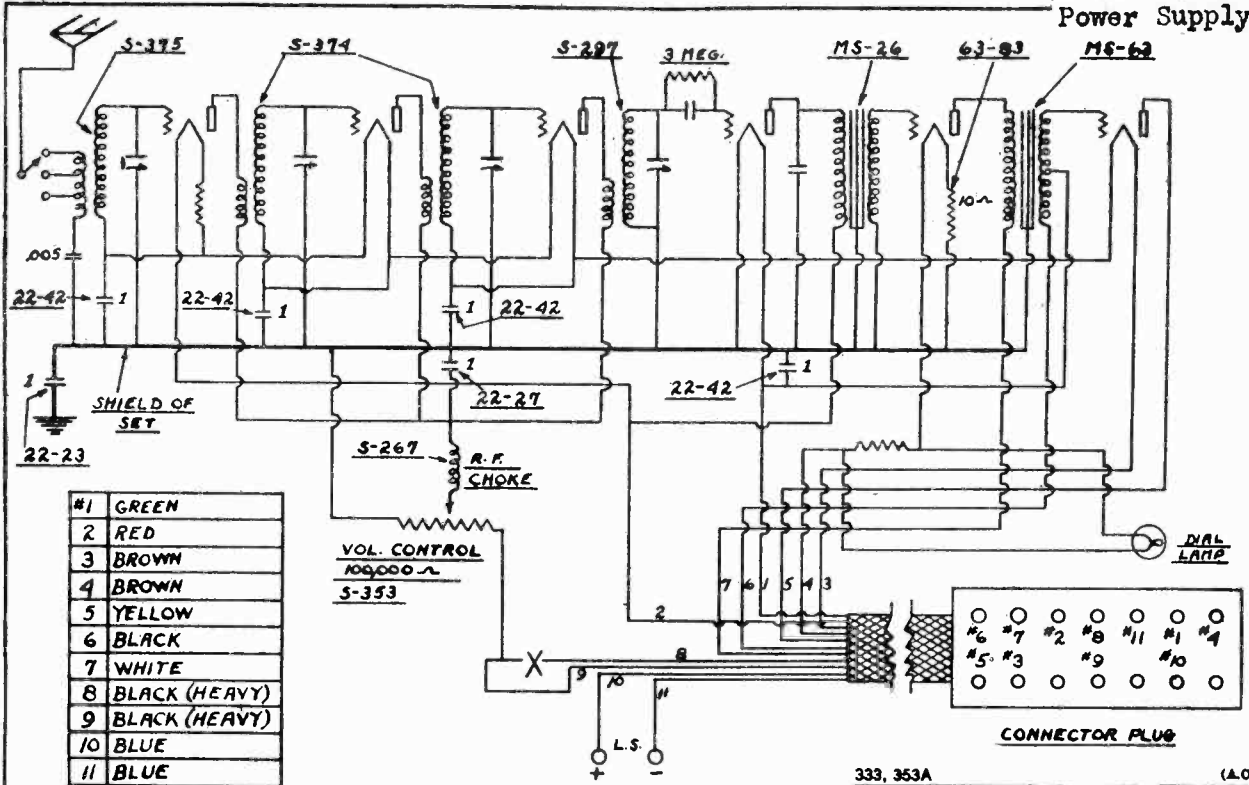
63-135	25M	Ohm Resistor	{Red, Green End, Orange Dot}
63-136	50M	"	{Green, Black " " }
63-137	250M	"	{Red, Green " Yellow " }
63-140	1 Meg	"	{Brown, Black " Green " }
63-148	1000	"	{Metal Mounting-Large}
63-149	400	"	{ " " -Small}
63-150	10M	"	{Brown, Black End, Orange Dot}
63-151	15M	"	{Brown, Green End " }
63-152	43M	"	{Yellow, Orange End " }
63-153	10M	Volume Control	"



- Fixed Condensers
- 22-82 .001 mf Condenser..... (Detector Plate).....
 - 22-87 8. " " (Electrolytic High Voltage)
 - 22-102 8. " " (Electrolytic Low Voltage)
 - Note: High voltage condenser identified by red dot on anode
 - .02 mf Condenser..... (Audio Coupling)
 - .08 " " (Filter Condenser)
 - 22-91 Five Section Bypass Condenser.....
 - 22-100 Antenna Series Condenser.....
 - S-392

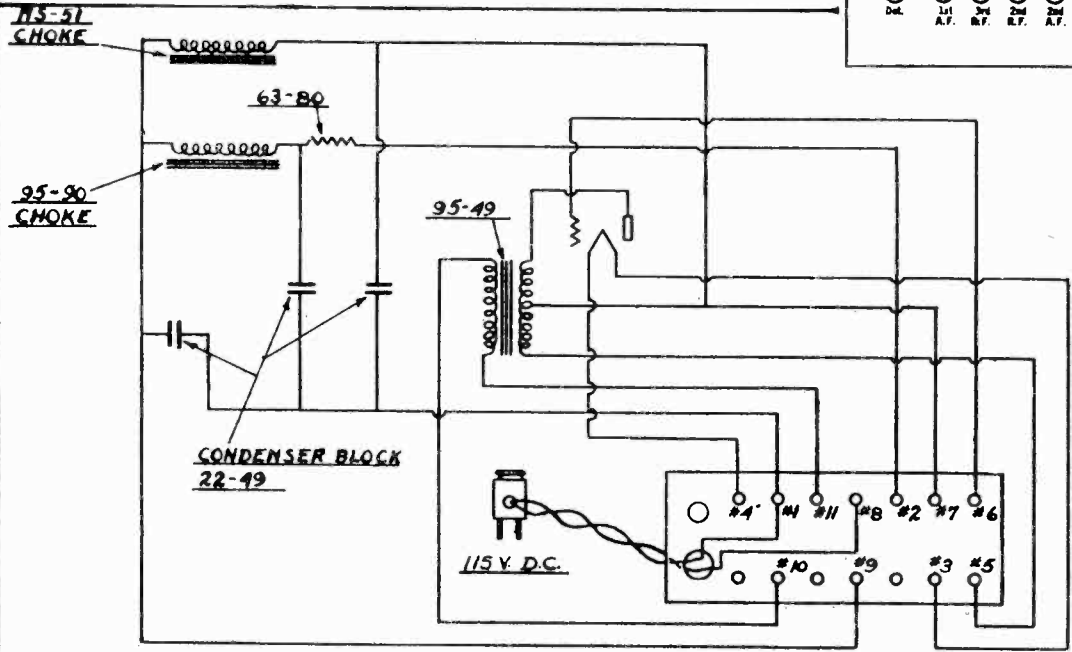
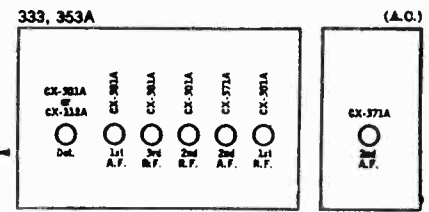
ZENITH RADIO CORP.

MODEL 333-353A
Schematic
MODEL ZE 17
Power Supply



(13)

WIRING DIAGRAM
MODEL 333-353A
6 TUBE D.C. SET.



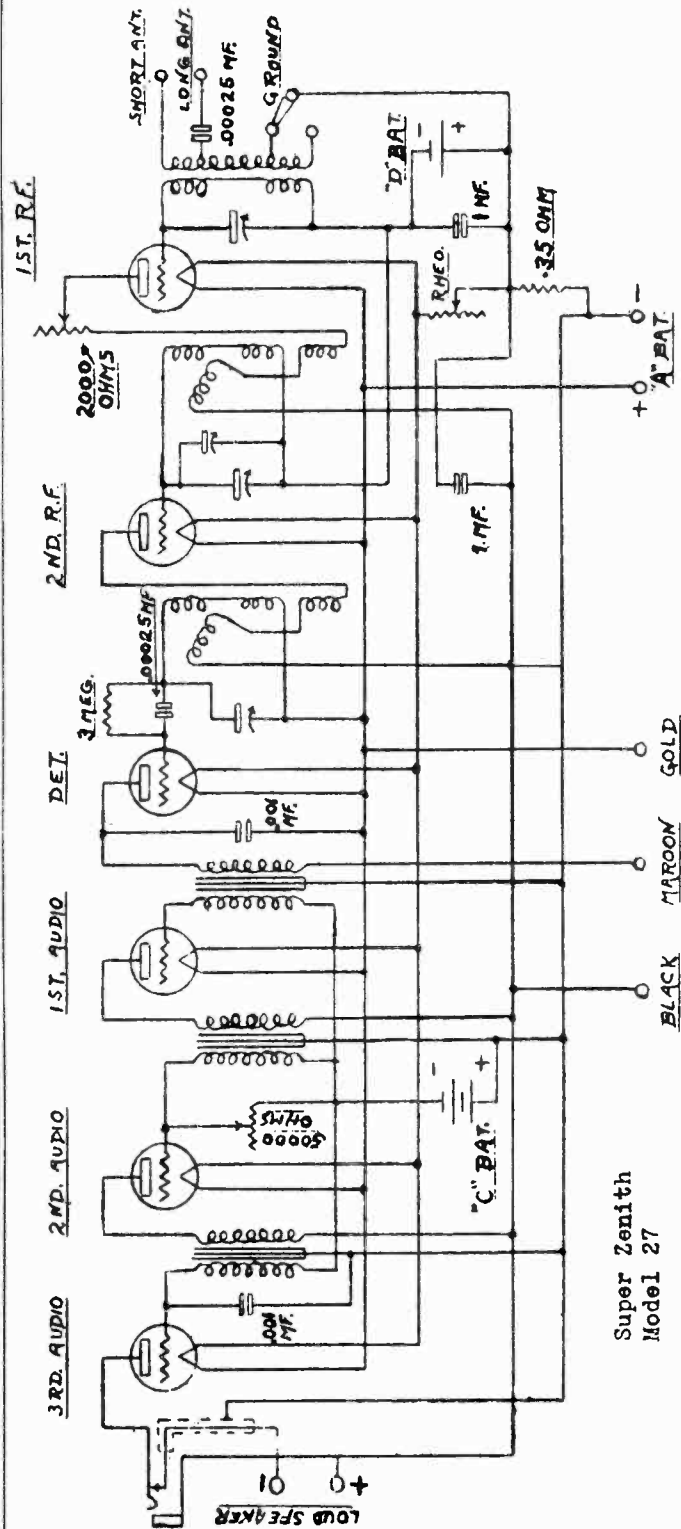
WIRING DIAGRAM
MODEL ZE 17
POWER SUPPLY FOR
MODELS 333-353A

ZENITH RADIO CORPORATION
CHICAGO ILL.

6-7-28 DRG. 123-48

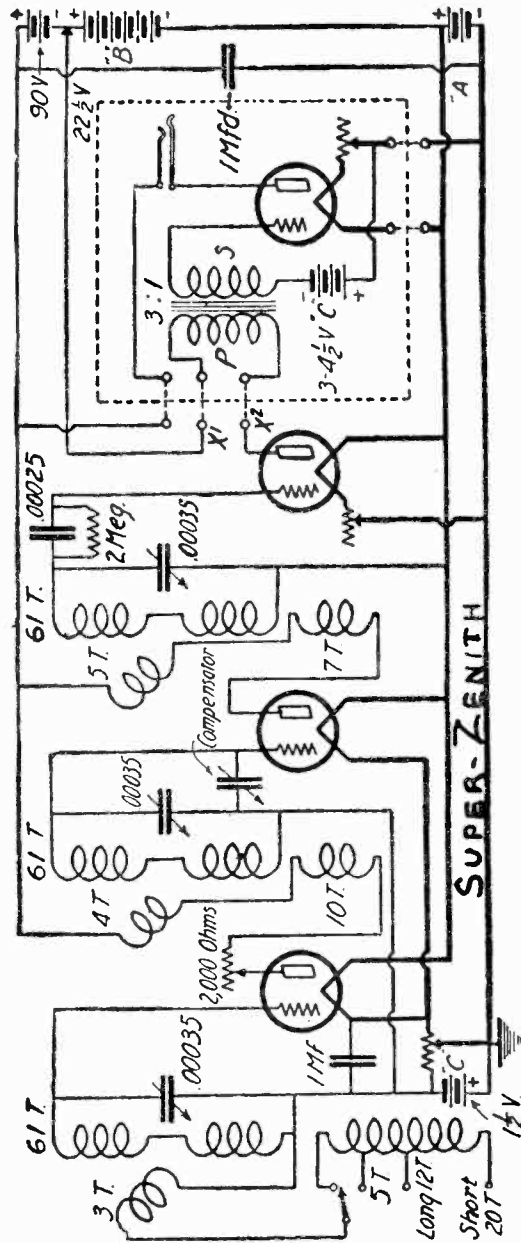
MODEL 27
 Super Zenith
 MODEL Super Zenith

ZENITH RADIO CORP.



Super Zenith
 Model 27

BLACK
 90V
 + B. BAT.
 MAROON
 22V
 - B. BAT.
 GOLD
 90V
 - B. BAT.



Super Zenith