

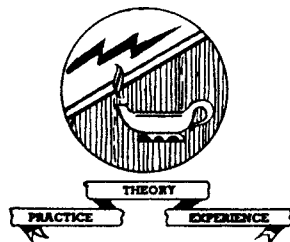
Most - Often - Needed

1940

RADIO
DIAGRAMS
and Servicing Information

Compiled by

M. N. BEITMAN



SUPREME PUBLICATIONS
CHICAGO

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

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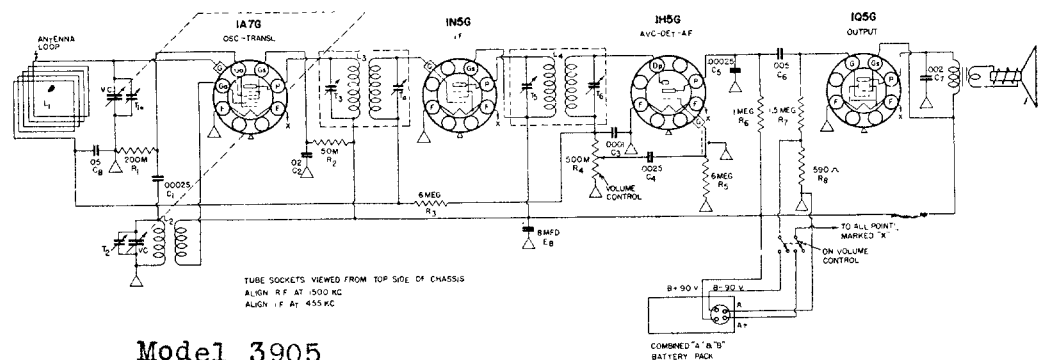
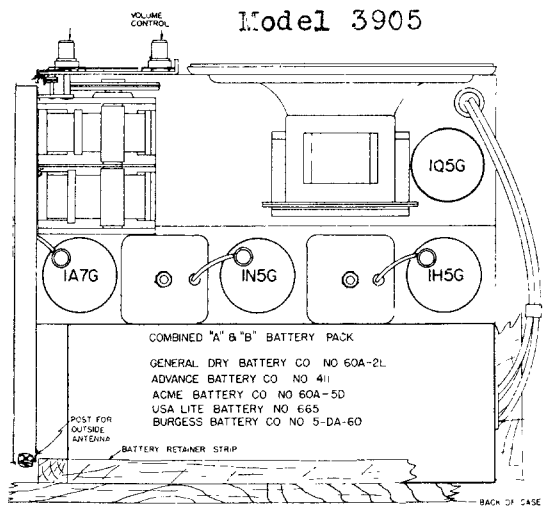
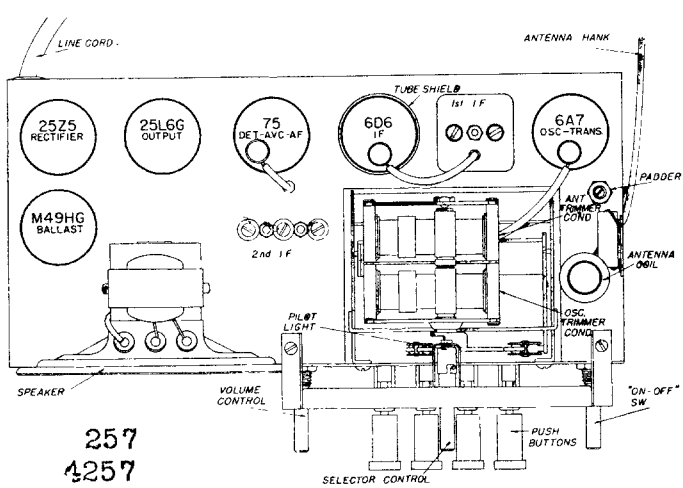
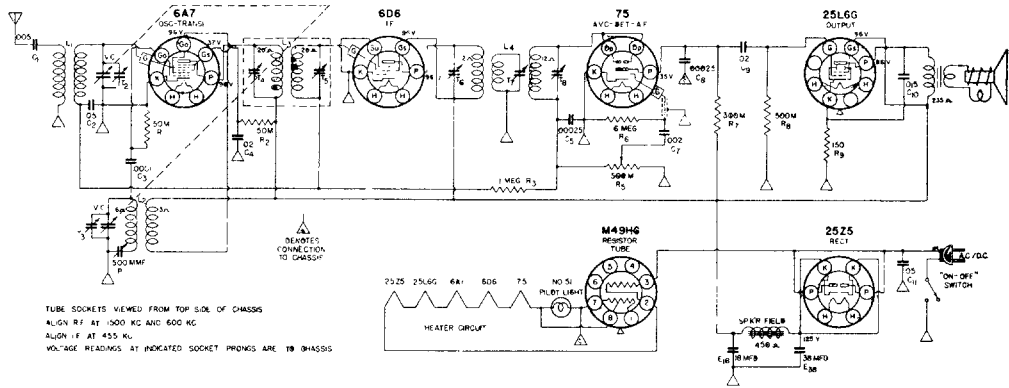
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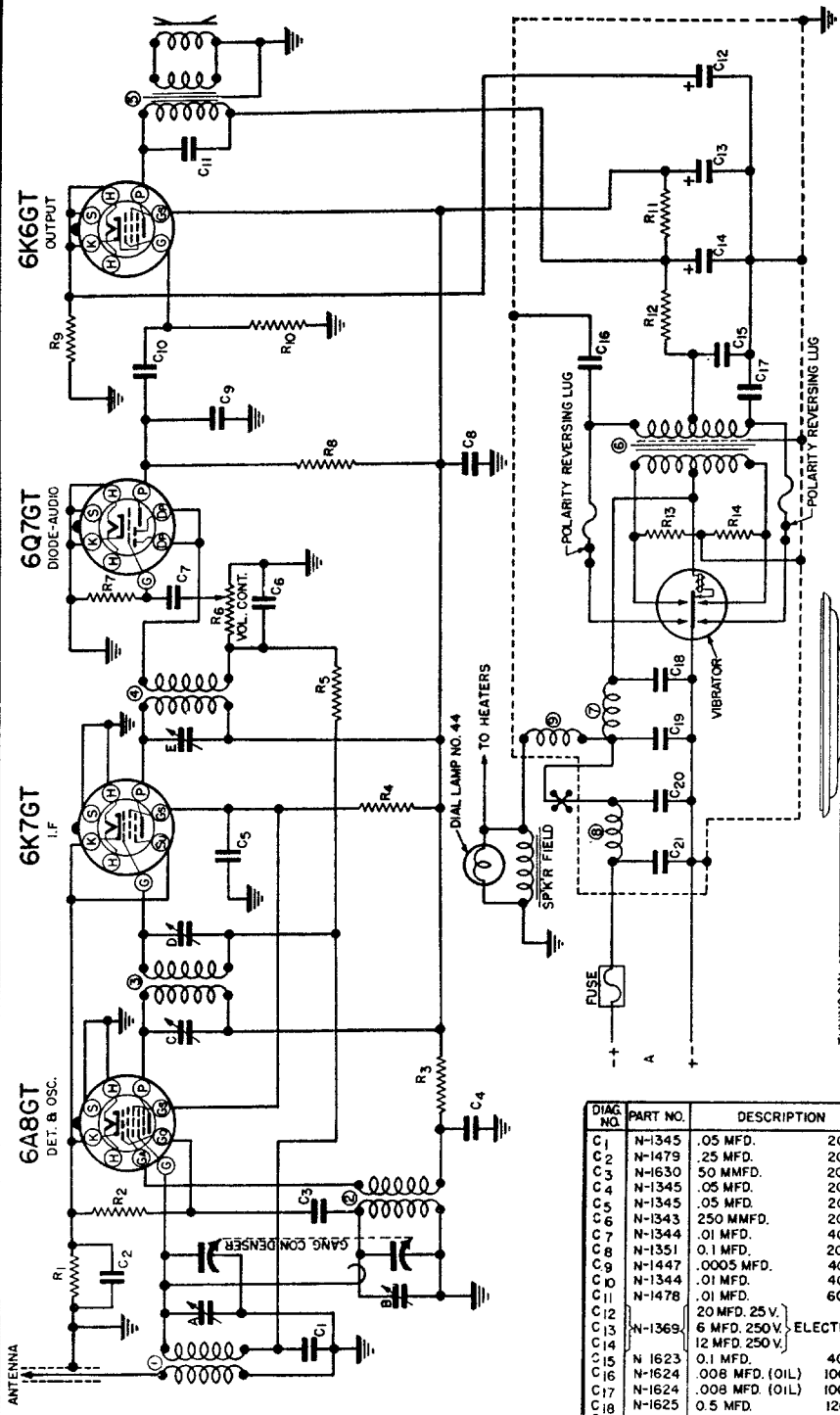
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Air-King Products Co.

Models 257, 4257



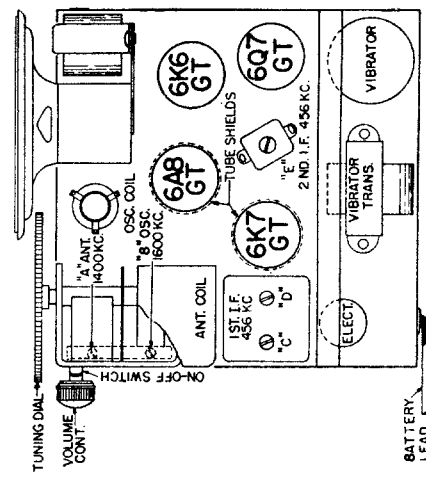
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



Allied Radio Corp.

Models AU-10
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A10760
A10822

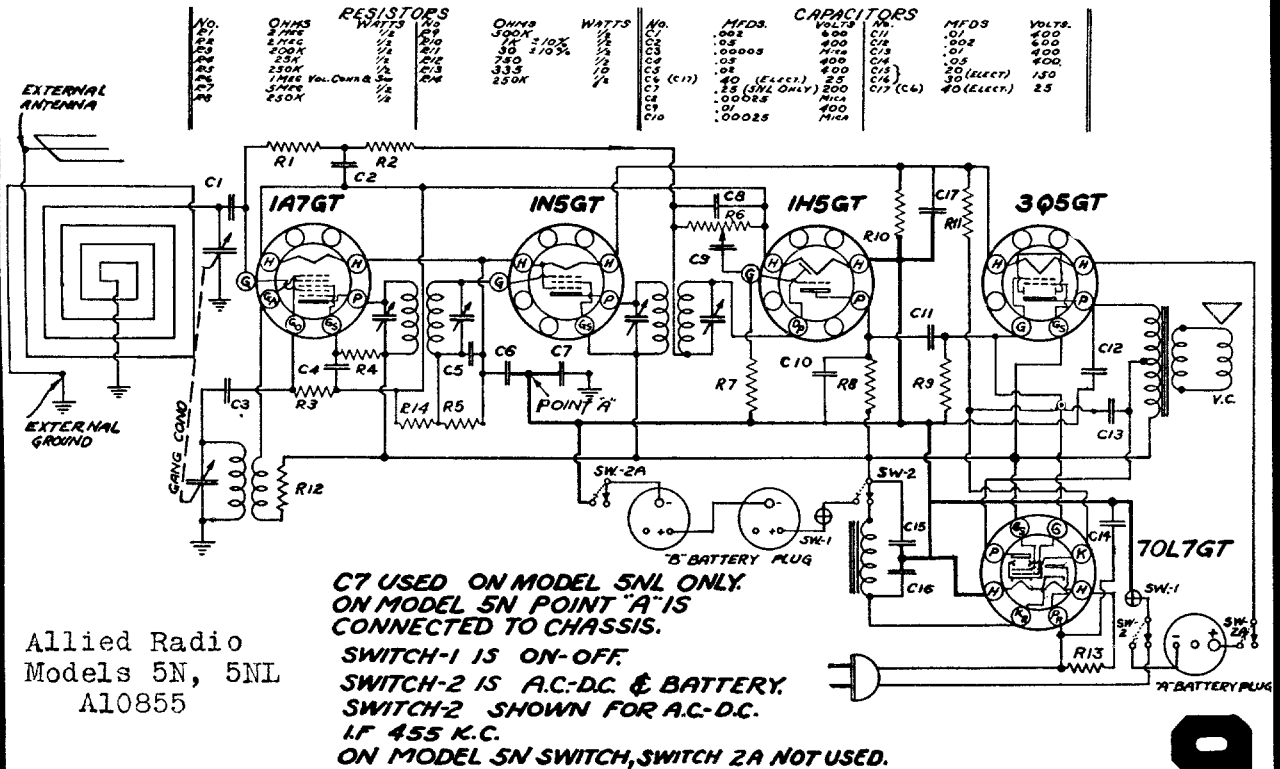
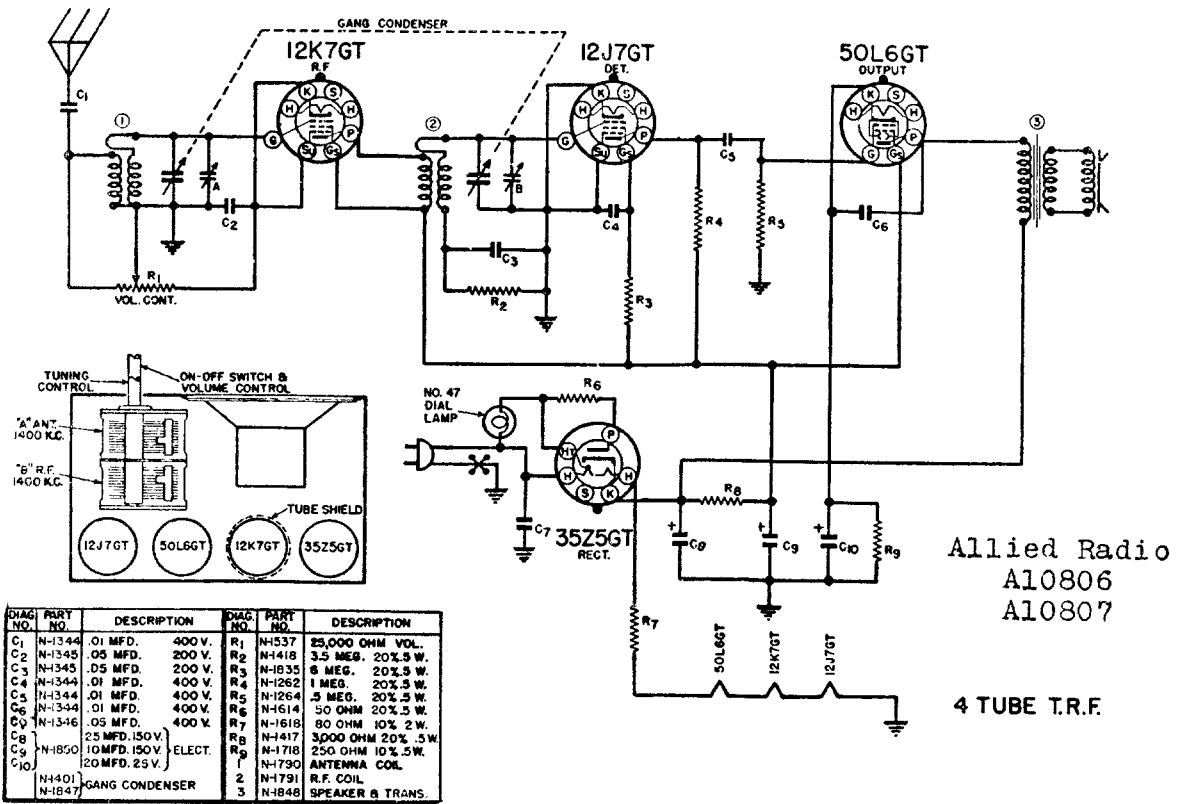
I.F. 456 K.C.



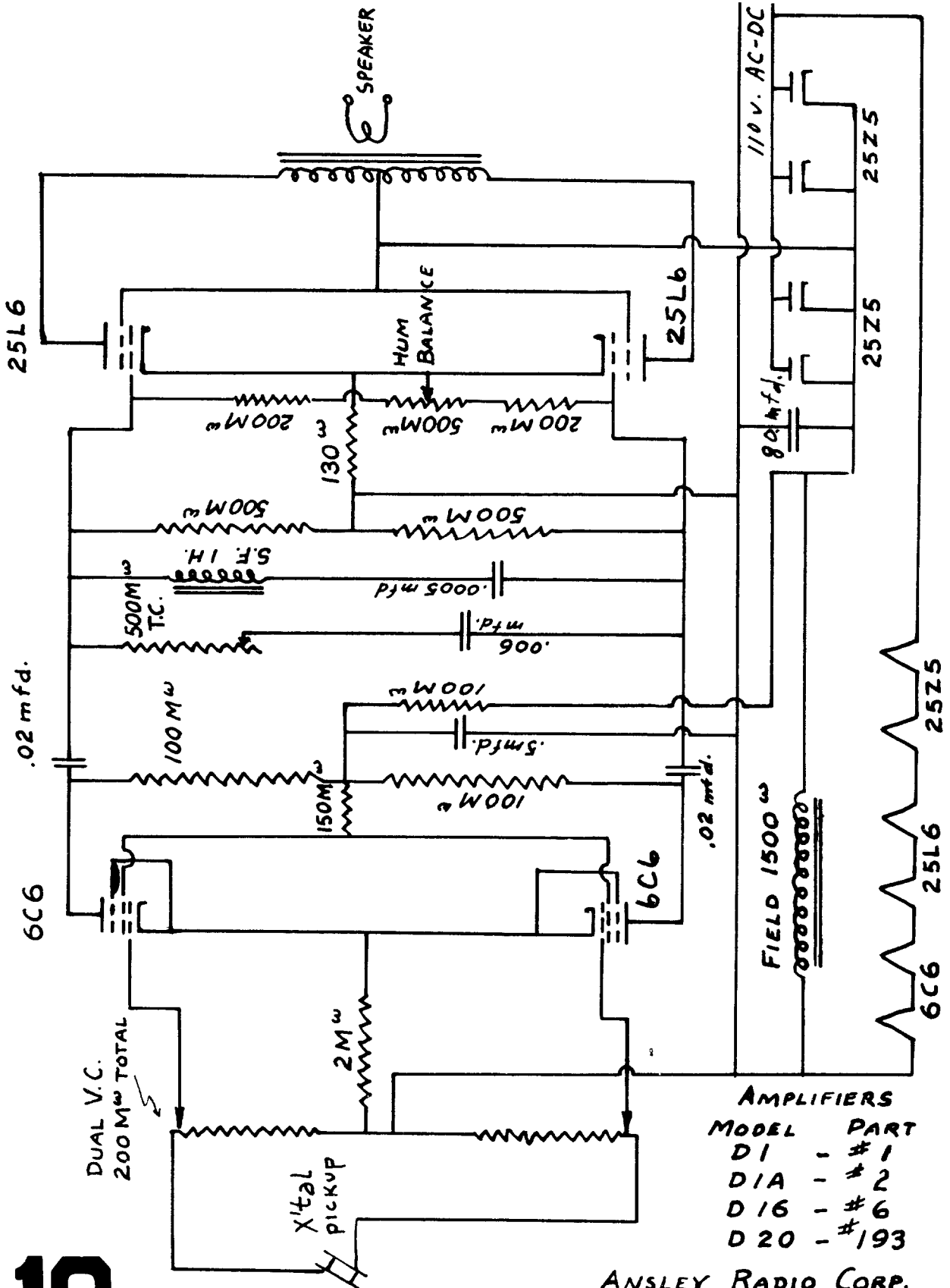
4 TUBE-6 VOLT
SUPERHETERODYNE
SINGLE BAND
AUTO SET

DIAG. NO.	PART NO.	DESCRIPTION	DIAG. NO.	PART NO.	DESCRIPTION
C1	N-1345	.05 MFD. 200V.	R13	N-1629	100 OHM 1W. 20%
C2	N-1479	.25 MFD. 200V.	R14	N-1629	100 OHM 1W. 20%
C3	N-1630	50 MMFD. 20%			
C4	N-1345	.05 MFD. 200V.			
C5	N-1345	.05 MFD. 200V.			
C6	N-1343	250 MMFD. 20%			
C7	N-1344	.01 MFD. 400V.			
C8	N-1351	0.1 MFD. 200V.			
C9	N-1447	.0005 MFD. 400V.			
C10	N-1344	.01 MFD. 400V.			
C11	N-1478	.01 MFD. 600V.			
C12					
C13	N-1369	20 MFD. 25V. } ELECTRO.			
C14		6 MFD. 250V. }			
C15		12 MFD. 250V. }			
C16	N-1623	0.1 MFD. 400V.			
C17	N-1624	0.08 MFD. (OIL) 1000V.			
C18	N-1624	.008 MFD. (OIL) 1000V.			
C19	N-1625	0.5 MFD. 120V.			
C20	N-1625	0.5 MFD. 120V.			
R1	N-1343	250 MMFD. 20%			
R2	N-1343	250 MMFD. 20%			
R3	N-1473	200 OHM .5W. 10%			
R4	N-1260	50,000 OHM .5W. 20%			
R5	N-1627	20,000 OHM .5W. 20%			
R6	N-1627	20,000 OHM .5W. 20%			
R7	N-1627	20,000 OHM .5W. 20%			
R8	N-1262	1 MEGOHM .5W. 20%			
R9	N-1238	0.5 MEGOHM VOL. CONT.			
R10	N-1419	6 MEGOHM .5W. 20%			
R11	N-1261	250,000 OHM .5W. 20%			
R12	N-1628	750 OHM .5W. 10%			
	N-1264	0.5 MEGOHM .5W. 20%			
	N-1256	500 OHM .5W. 20%			
	N-1482	250 OHM .5W. 20%			
	N-1249	ANTENNA COIL			
	N-1250	OSCILLATOR COIL			
	N-1248	1 ST. I.F. TRANS.			
	N-1596	2ND. I.F. TRANS.			
	N-1235	4" SPEAKER & TRANS.			
	N-1540	VIBRATOR TRANS.			
	N-1477	HASH CHOKE			
	N-1632	MOTOR NOISE CHOKE			
	N-1631	HEATER CHOKE			
	N-1236	VIBRATOR (SYNCHRONOUS)			
	N-1237	GANG CONDENSER			
	N-1241	TUNING DIAL			
	N-1539	BATTERY LEADS			
	N-1239	TOGGLE SWITCH			

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



Allied Radio
Models 5N, 5NL
A10855



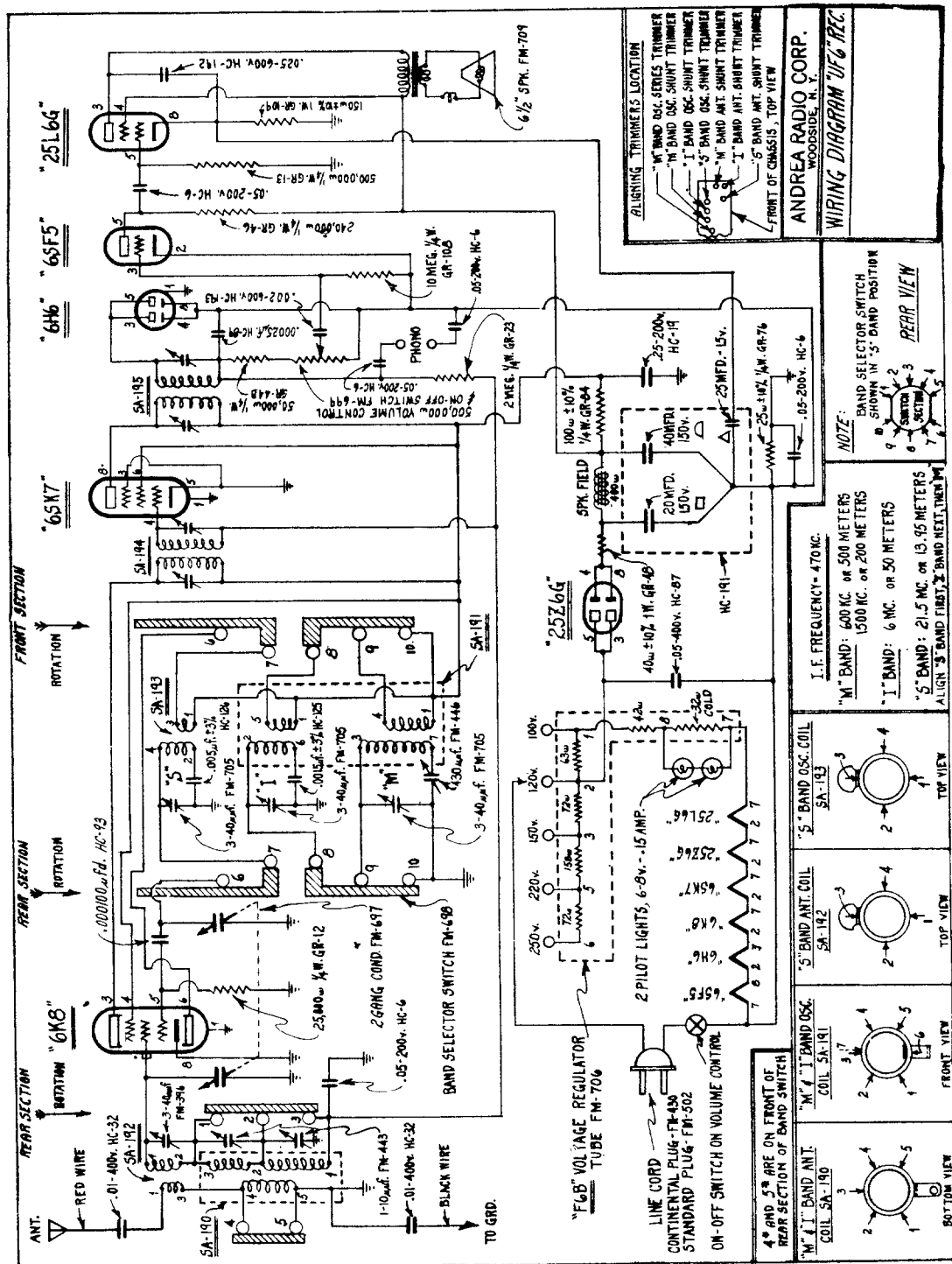
AMPLIFIERS

MODEL	PART
D1	#1
D1A	#2
D16	#6
D20	#193

ANSLEY RADIO CORP.

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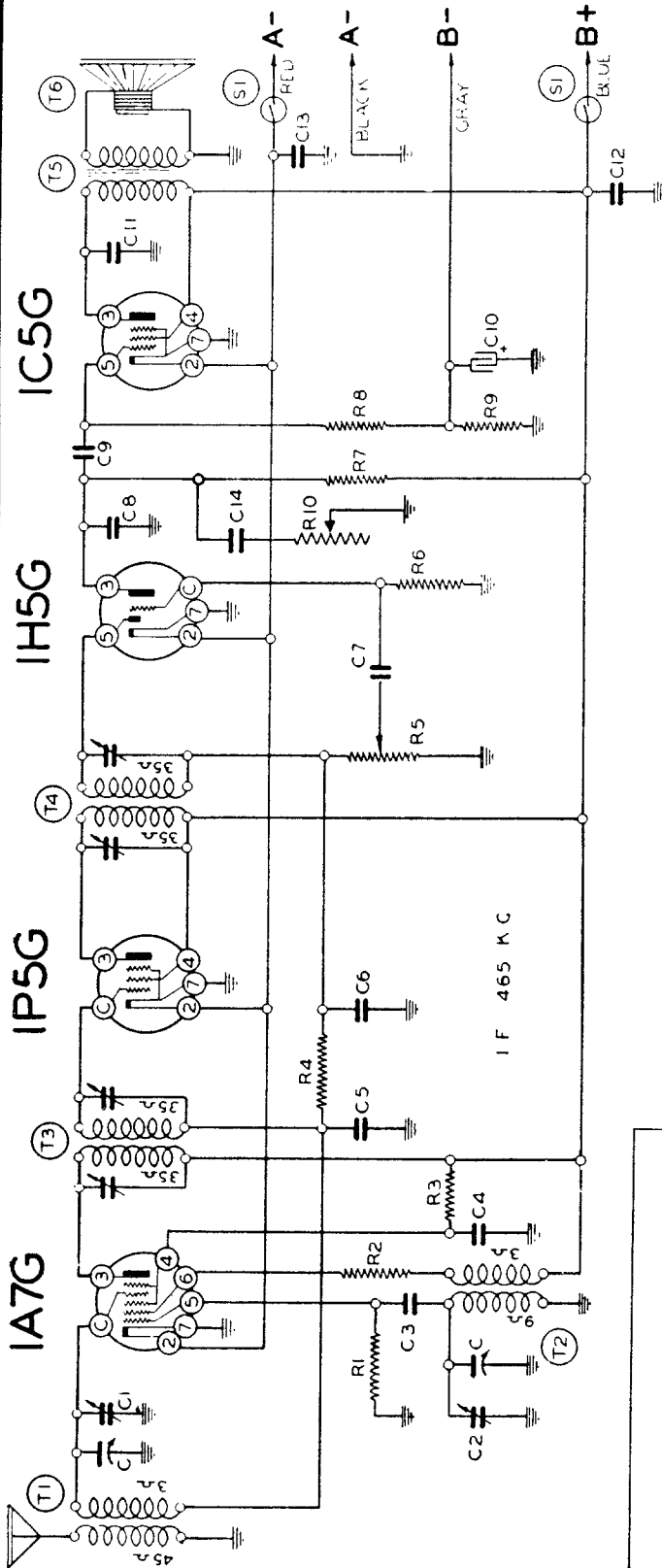
Andrea Radio



MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

Belmont Radio

Model 460



Circuit Ref.

No.	Part No.	Description
RESISTORS		
R1	130266	200M ohm— $\frac{1}{2}$ w.
R2	13018	4M ohm— $\frac{1}{2}$ w.
R3	1307	40M ohm— $\frac{1}{2}$ w.
R4	1304	3 megohm— $\frac{1}{2}$ w.
R5	101175	1 megohm volume control
R6	130257	5 megohm— $\frac{1}{2}$ w.
R7	1303	500M ohm— $\frac{1}{2}$ w.
R8	13019	1 megohm— $\frac{1}{2}$ w.
R9	130200	700 ohm— $\frac{1}{2}$ w.
R10	101119	Tone Control (1 Megohm)

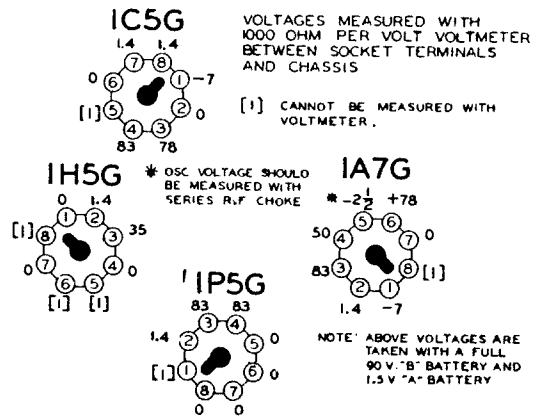
CONDENSERS

C	102110	2 gang variable condenser
C1		Antenna Trimmer on gang
C2		Oscillator trimmer on gang
C3	12912	.0025 mica
C4	1009	.05 x 200 v.
C5	1009	.05 x 200 v.
C6	1295	.0001 mica
C7	10012	.003 x 600 v.
C8	1295	.0001 mica
C9	10011	.01 x 400 v.
C10	11975	10 mfd. x 25 w. v.
C11	10012	.003 x 600 v.
C12	10064	.25 x 200 v.
C13	10020	.1 x 200 v.
C14	10025	.002 x 600 v.

PARTS

T1	111132	Antenna Coil
T2	110122	Oscillator Coil
T3	108151B	Input I. F. - 465 kc.
T4	108153	Output I. F. - 465 kc.
T5	10591	Output Transformer
T6	114166	5 in. P. M. Speaker
S1		Off-on switch on Volume control

BOTTOM VIEW OF CHASSIS

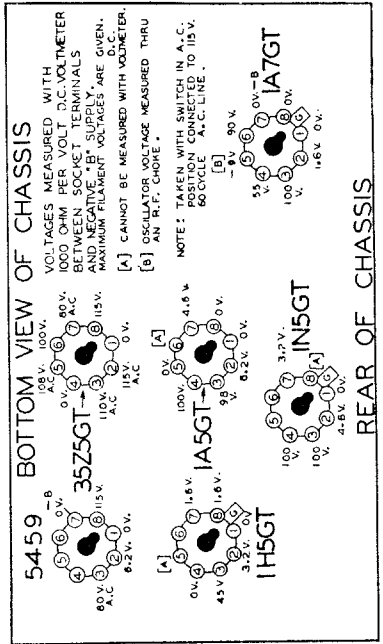
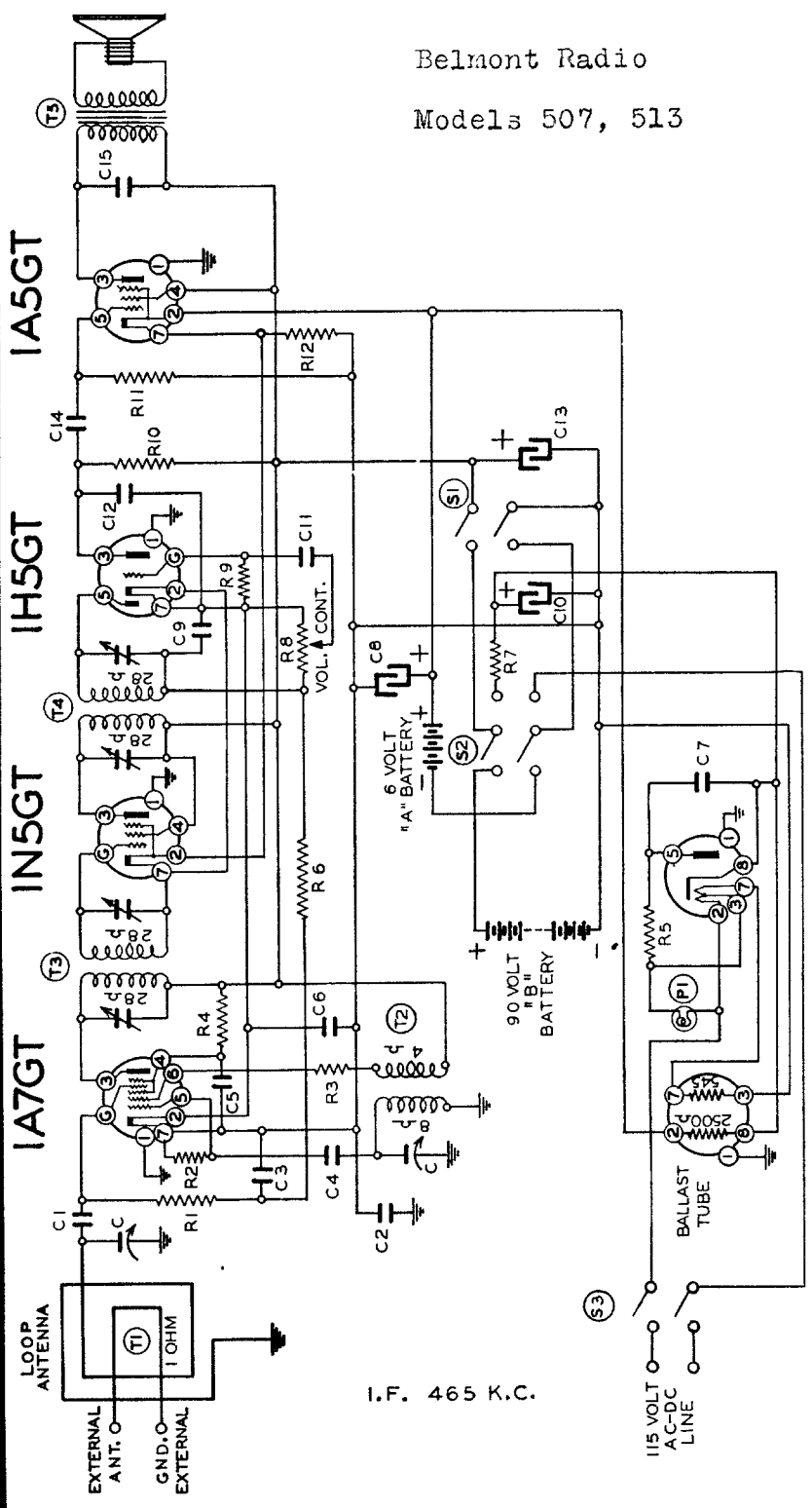


REAR OF CHASSIS

12

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

Belmont Radio
Models 507, 513

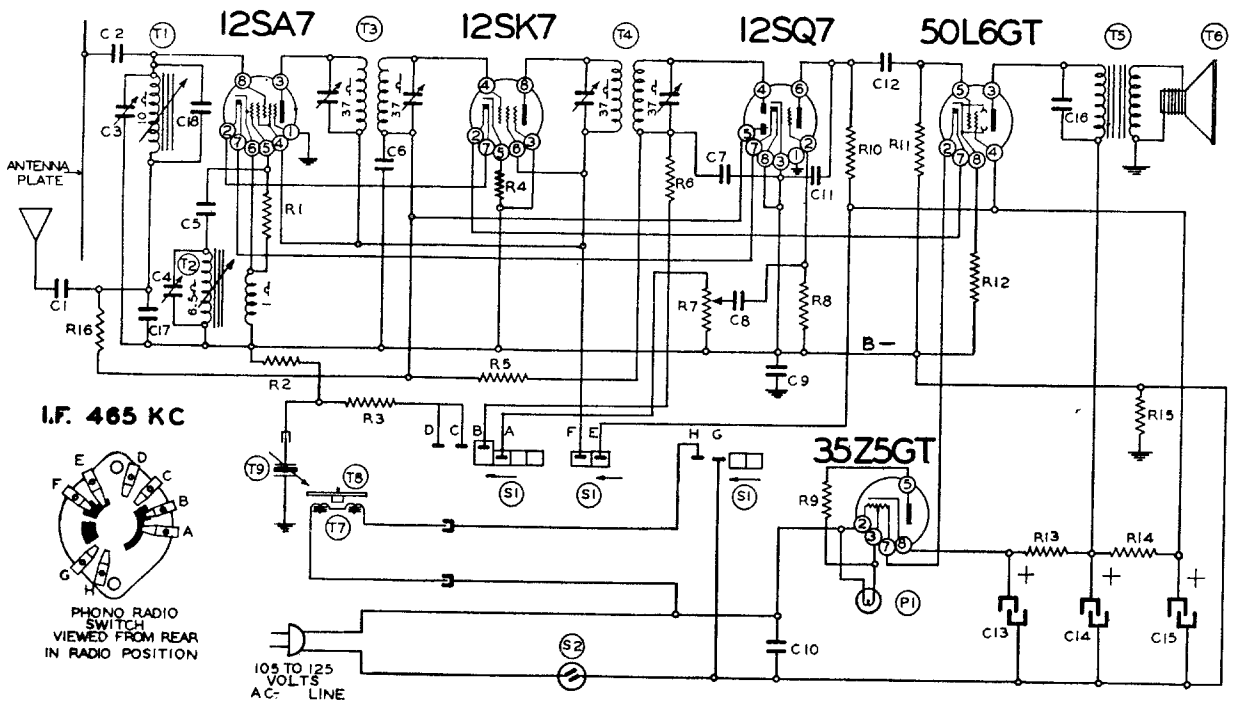


Circuit Diagram Ref. No. Part No.

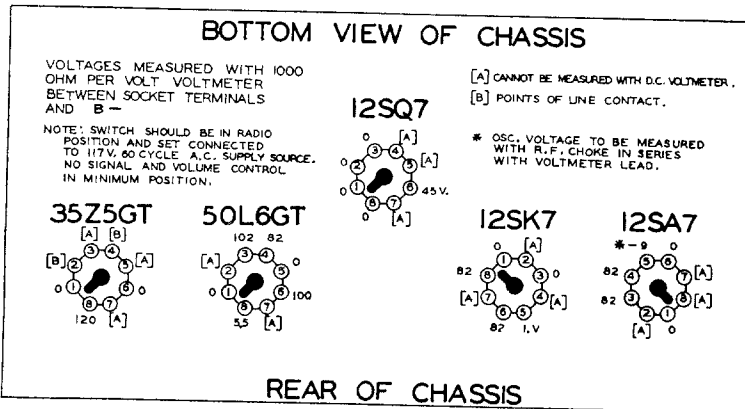
- | | | |
|---------------|--------|------------------------------|
| 35Z5GT | | RESISTORS |
| R1 | 13038 | 2 megohm— $\frac{1}{2}$ w. |
| R2 | 130266 | 200M ohm— $\frac{1}{2}$ w. |
| R3 | 13018 | 4M ohm— $\frac{1}{2}$ w. |
| R4 | 130208 | 40M ohm— $\frac{1}{2}$ w. |
| R5 | 130215 | 25 ohm— $\frac{1}{2}$ w. |
| R6 | 130170 | 3 megohm— $\frac{1}{2}$ w. |
| R7 | 130129 | 2500 ohm— $\frac{1}{2}$ w. |
| R8 | 101210 | 1 megohm volume control |
| R9 | 130257 | 5 megohm— $\frac{1}{2}$ w. |
| R10 | 1303 | 500M ohm— $\frac{1}{2}$ w. |
| R11 | 13038 | 2 megohm— $\frac{1}{2}$ w. |
| R12 | 13092 | 1M ohm— $\frac{1}{2}$ w. |
| 5459 | | CONDENSERS |
| C1 | 102125 | 2 gang variable condenser |
| C2 | 12912 | .00025 |
| C3 | 100110 | .2 mfd. x 400 v. |
| C4 | 1009 | .05 x 200 v. |
| C5 | 12912 | .00025 |
| C6 | 1009 | .05 x 200 v. |
| C7 | 10020 | .1 x 200 v. |
| C8 | 10011 | .01 x 400 v. |
| C9 | 119104 | Lytic 200 mid. x 6 w. v. |
| C10 | 1295 | .0001 mfd. |
| C11 | 119104 | Lytic 40 mfd. x 150 w. v. |
| C12 | 10025 | .002 x 600 v. |
| C13 | 1292 | .0005 mfd. |
| C14 | 119104 | Lytic 20 mfd. x 150 w. v. |
| C15 | 10011 | .01 x 400 v. |
| | 10025 | .02 x 600 v. |
| | | C8, C10 and C13 in same unit |
| PARTS | | |
| T1 | 111171 | Loop Antenna |
| T2 | 110144 | Oscillator Coil |
| T3 | 108171 | Input I. F. Coil—465 kc. |
| T4 | 108172 | Output I. F. Coil—465 kc. |
| T5 | 114189 | Speaker with output transfer |
| S1 | 101210 | Switch on volume control |
| S2 | 125106 | Power Switch |
| S3 | 125107 | Cut-off switch in line cord |
| P1 | 107249 | Pilot light T47 |

I.F. 465 K.C.

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



Belmont Radio Model 533



Circuit Diagram Ref. No. Part No. Description

RESISTORS		
R1	130176	20M ohm—1/2 w.
R2	130118	600M ohm—1/2 w.
R3	130118	600M ohm—1/2 w.
R4	13056	100 ohm—1/2 w.
R5	130170	3 megohm—1/2 w.
R6	13012	50M ohm—1/2 w.
R7	101217	1/2 megohm—volume control
R8	130257	5 megohm—1/2 w.
R9	130215	25 ohm—1/2 w.
R10	1309	200M ohm—1/2 w.
R11	13037	750M ohm—1/2 w.
R12	130166	150 ohm—1/2 w.
R13	13097	200 ohm—1/2 w.
R14	130287	1200 ohm—1 watt
R15	1309	200M ohm—1/2 w.
R16	1309	200M—1/2 w.

CONDENSERS		
C1	1295	.0001 Mica Condenser
C2	129114	.0003 mfd. mica
C3	124136	Antenna Trimmer
C4	124136	Oscillator Trimmer
C5	1295	.0001 mica
C6	1009	.05 x 200 v
C7	1295	.0001 mica
C8	10025	.002 x 600 v.
C9	100119	.1 x 400 v.
C10	1001	.1 x 400 v.
C11	12912	.00025 mica
C12	10019	.006 x 600 v.
C13	11994	40 mfd. lytic—150 w. v.
C14	11994	20 mfd. lytic—150 w. v.
C15	11994	20 mfd. lytic—150 w. v.
C16	10011	.01 x 400 v.
C17	129162	.0008 Mica Condenser
C18	129163	.000025 Ceramicon Condenser

C3 and C4 are same unit
C13, C14 and C15 are in same unit

PARTS		
T1	112767	Antenna Coil—Permeability assembly complete
T2	112767	Oscillator Coil
T3	108140F	Input I. F. Coil—465 kc.
T4	108145D	Output I. F. Coil—465 kc.
T5	105108	Output Transformer
T6	114193	5" P.M. Speaker
T7	104206	Phono Motor
T8	12228	Turntable
T9	114194	Phono pick up arm
S1	125113	Phono Switch
S2		Switch on volume control
P1	107249	Pilot light T47

T1 and T2 in same unit

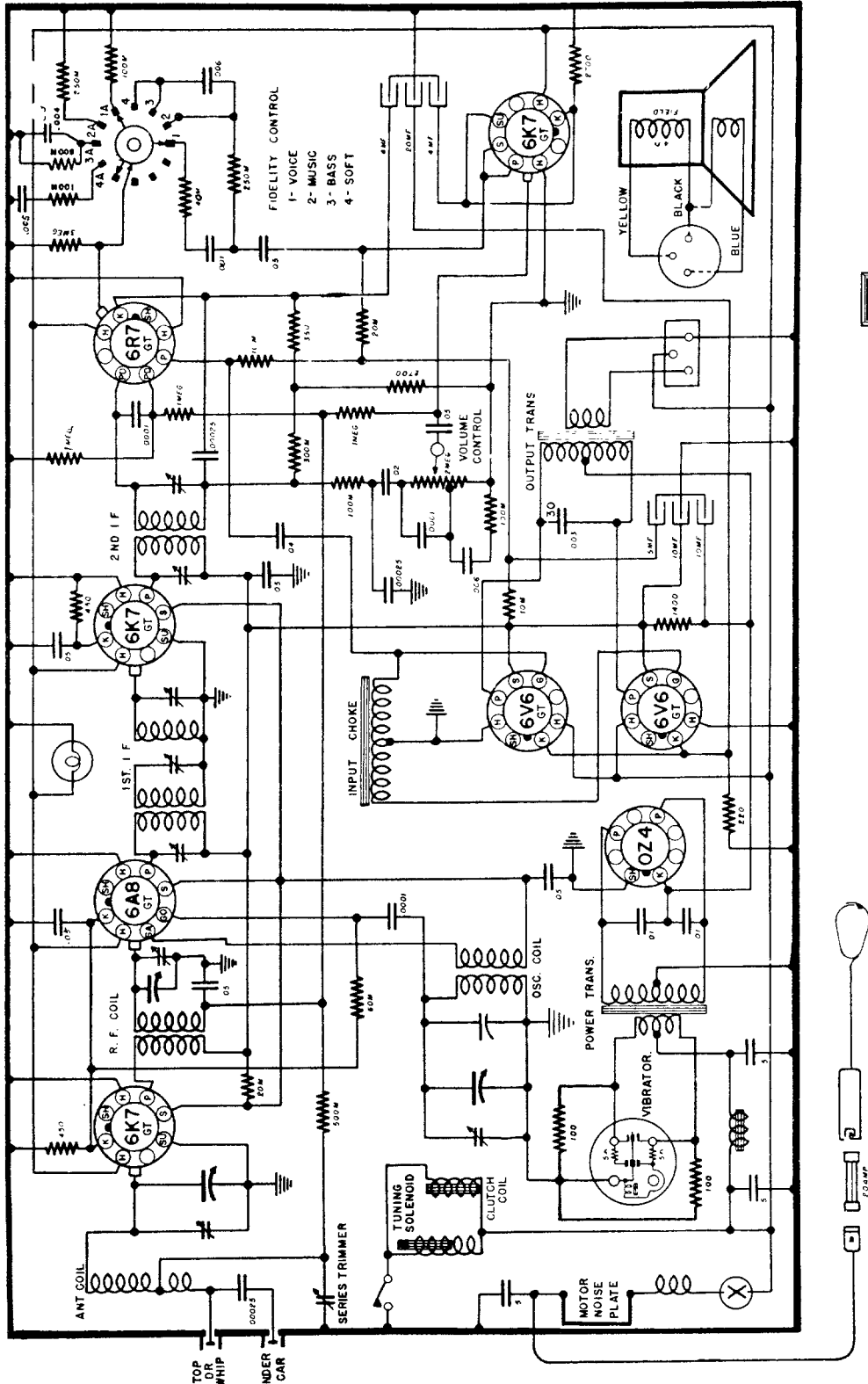
SERVICE NOTES:

Voltages taken from different points of circuit to chassis are measured with volume control at minimum, all tubes in their sockets and speaker connected, with a volt meter having a resistance of 1000 ohms per volt.

All voltages as indicated on the voltage chart are measured with 117 volt 60 cycle A.C. line.

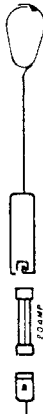
CAUTION:—No aligning adjustments should be attempted without first thoroughly checking over all other possible causes of trouble, such as poor installations, open or grounded antenna systems, low line voltage, defective tubes, condensers and resistors. In order to properly align this radio, the chassis should be removed from the cabinet.

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

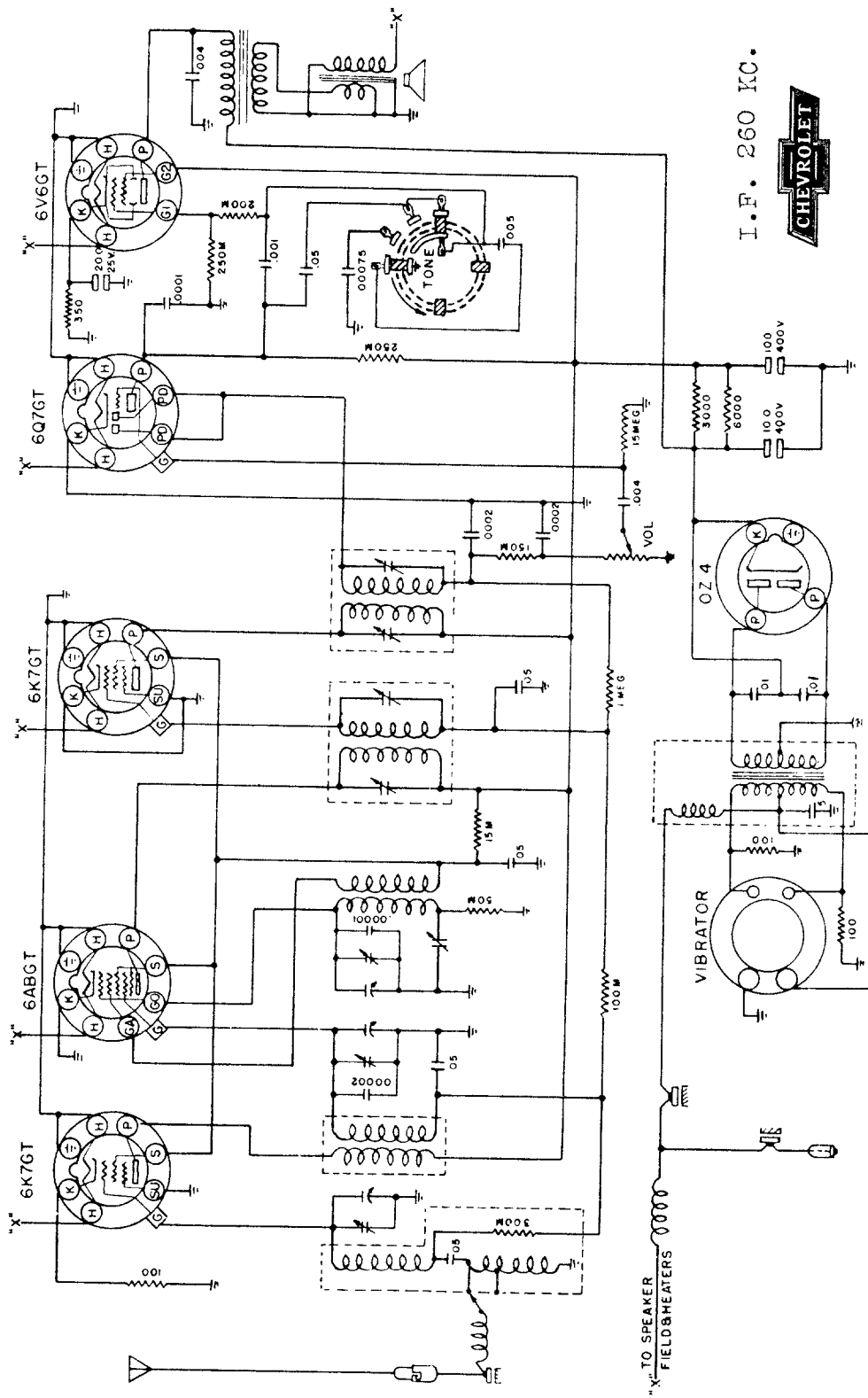


985536 CIRCUIT DIAGRAM

I.F. 262.5 KC.



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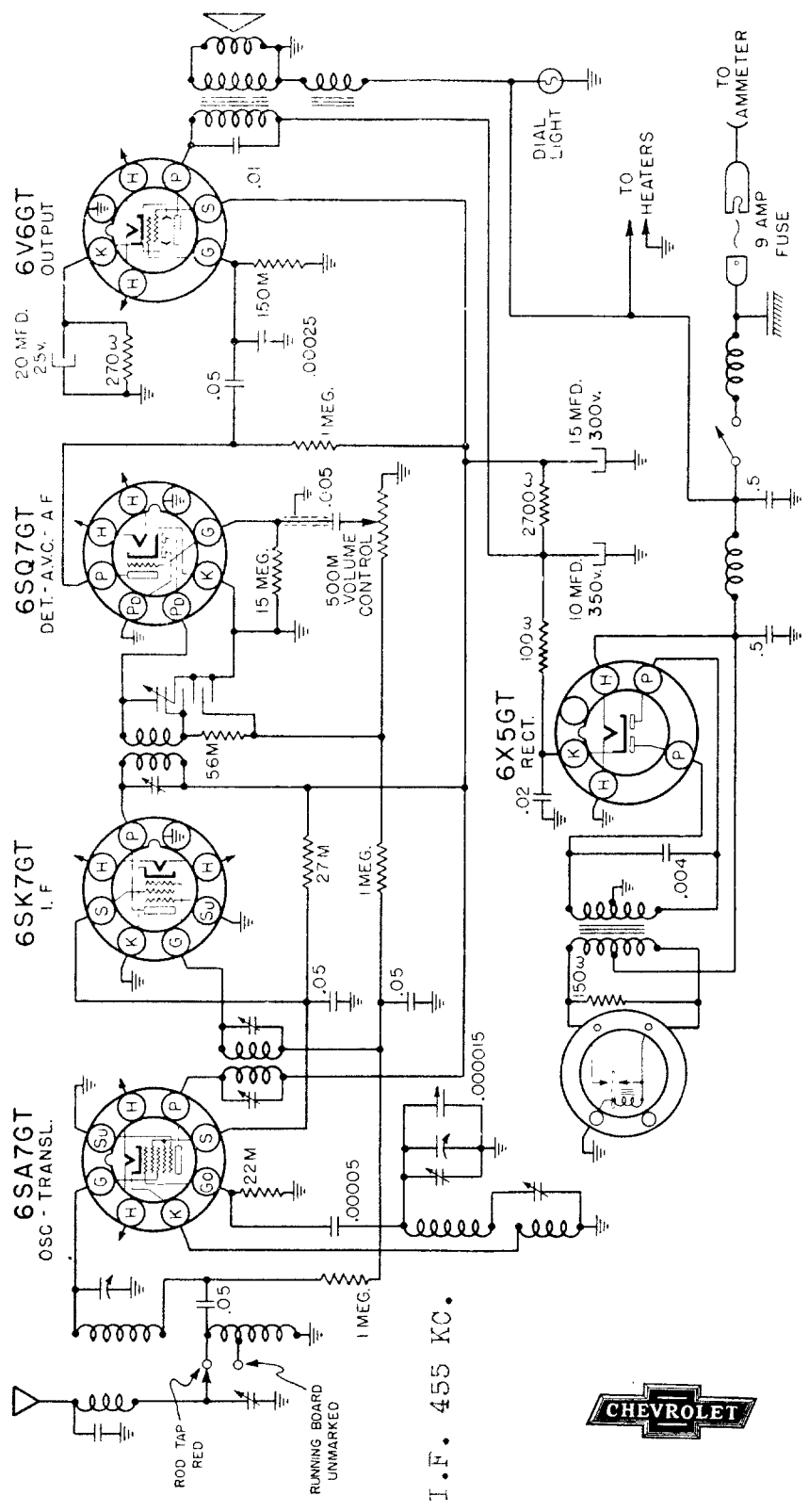


I. F. 260 KC.



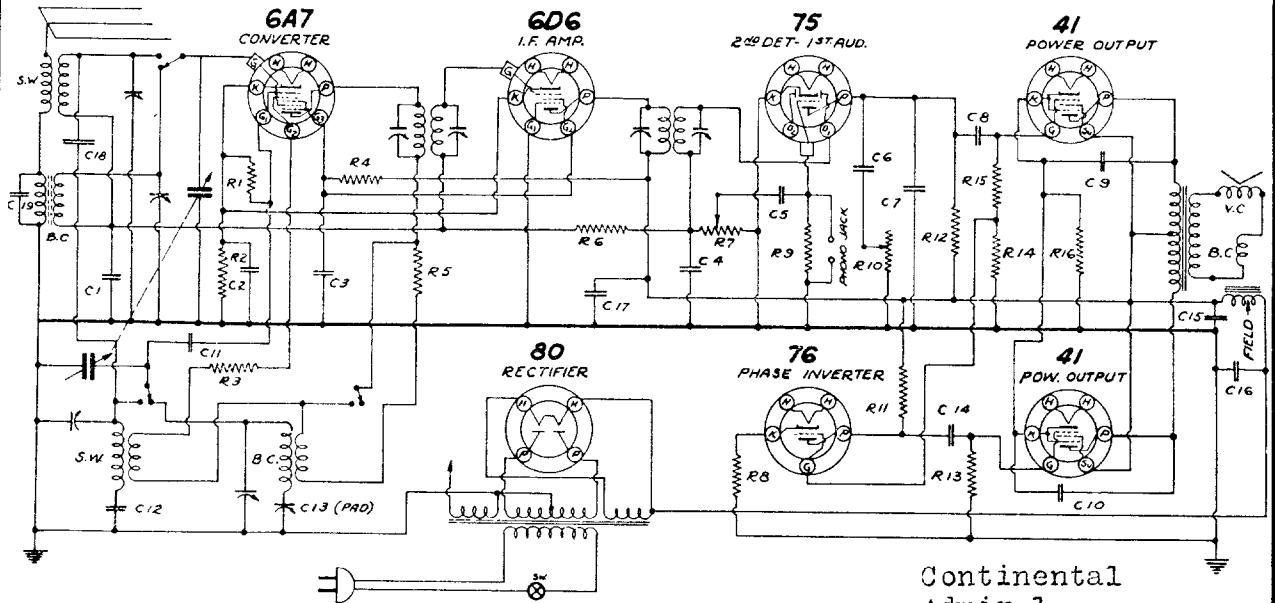
985537 CIRCUIT DIAGRAM

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



985538 CIRCUIT DIAGRAM

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



Continental
Admiral

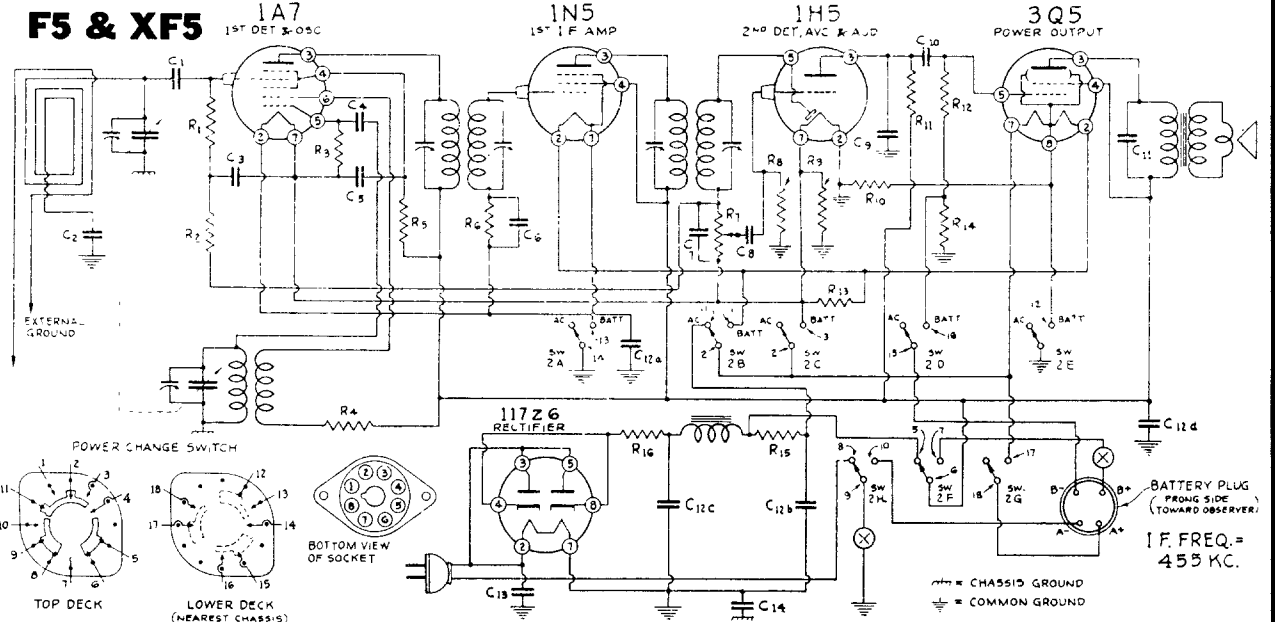
I.F. 455 K.C.

BAND SWITCHES SHOWN IN BROADCAST POSITION
BOTTOM VIEW OF TUBE SOCKETS SHOWN
GANG CONDENSER CAPACITY 443 μMFD.

SCHEMATIC DIAGRAM MODEL 7C

CAPACITORS						RESISTORS					
No.	MFD'S	VOLTS	No.	MFD'S	VOLTS	No.	OHMS	WATTS	No.	OHMS	WATTS
C1	.05	200	C11	.0001	MICA	R1	50,000	1/2	R11	50,000	1/2
C2	.25	200	C12	.004-5%	MICA	R2	200	1/2	R12	250,000	1/2
C3	.05	400	C13	300-600 μMFD	PADDER	R3	250	1/2	R13	500,000	1/2
C4	.00025	MICA	C14	.01	400	R4	20,000	1/2	R14	100,000	1/2
C5	.01	400	C15	10.0	350	R5	1,000	1/2	R15	400,000	1/2
C6	.005	600	C16	10.0	350	R6	2 MEG	1/2	R16	300	1/2
C7	.00025	MICA	C17	.05	400	R7	800,000	VOL. CON.			
C8	.01	400	C18	.05	400	R8	3,000	1/2			
C9	.005	600	C19	.0001	MICA	R9	5 MEG	1/2			
C10	.005	600				R10	450,000	1/2			

F5 & XF5



No.	Ohms	Watts	No.	Ohms	Watts	No.	Capacity (Mfd.)	Volts	No.	Capacity (Mfd.)	Volts
R1	1,000,000	1/2	R9	110	1/2	C1	.00025	Mica	C10	.01	400
R2	1,000,000	1/2	R10	750-10%	1/2	C2	.1	200	C11	.002	400
R3	200,000	1/2	R11	250,000	1/2	C3	.01	200	C12a	40.	25
R4	500	1/2	R12	1,000,000	1/2	C4	.0065	Mica	C12b	40.	25
R5	30,000	1/2	R13	400	1/2	C5	.05	200	C12c	30.	150
R6	5,000,000	1/2	R14	450-10%	1/2	C6	.01	200	C12d	30.	150
R7	1,000,000	1/2	R15	2,100	5	C7	.00025	Mica	C13	.05	400
R8	5,000,000	1/2	R16	30	1/2	C8	.01	400	C14	.25	200
						C9	.00025	Mica			

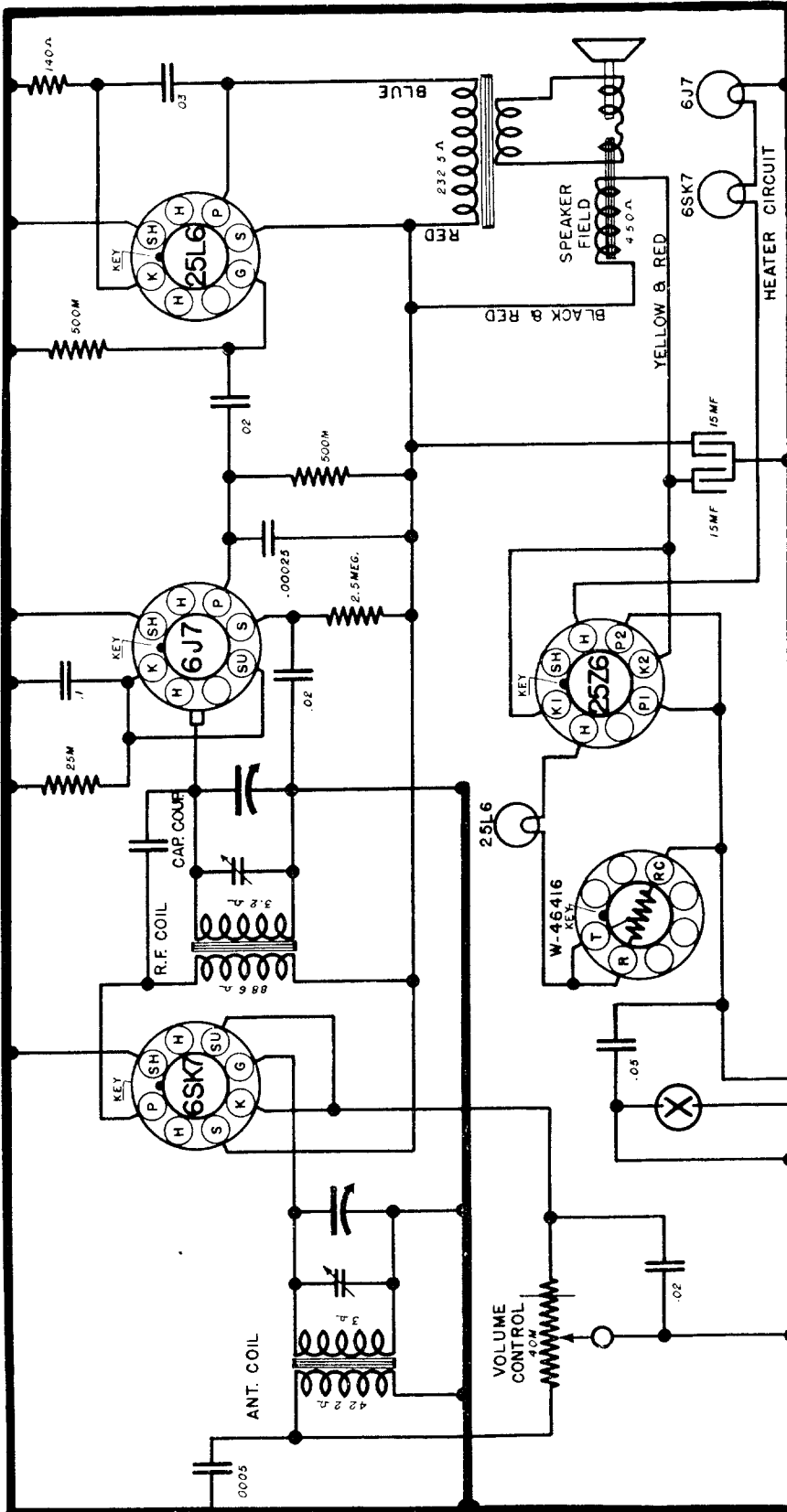
In Model F5 switch points 4, 15, 16, 17 and 18 are not used. Switch point 4 is also not used on Model XF5. Power change switch 2A thru 2H and the pictorial view shown in the "AC-DC" position.

In late models C2 is not used.

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Power Consumption @ 117.5 Volts Line—Approximately 43 Watts.
 D. C. Drop Across Speaker Field—29 Volts.
 Maximum Power Output Approximately 2.0 Watts.

MODEL --- # 10

TUBES MAY BE METAL OR GT TYPE

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SOCKET VOLTAGES TAKEN @ 117.5 VOLT LINE (A. C.)

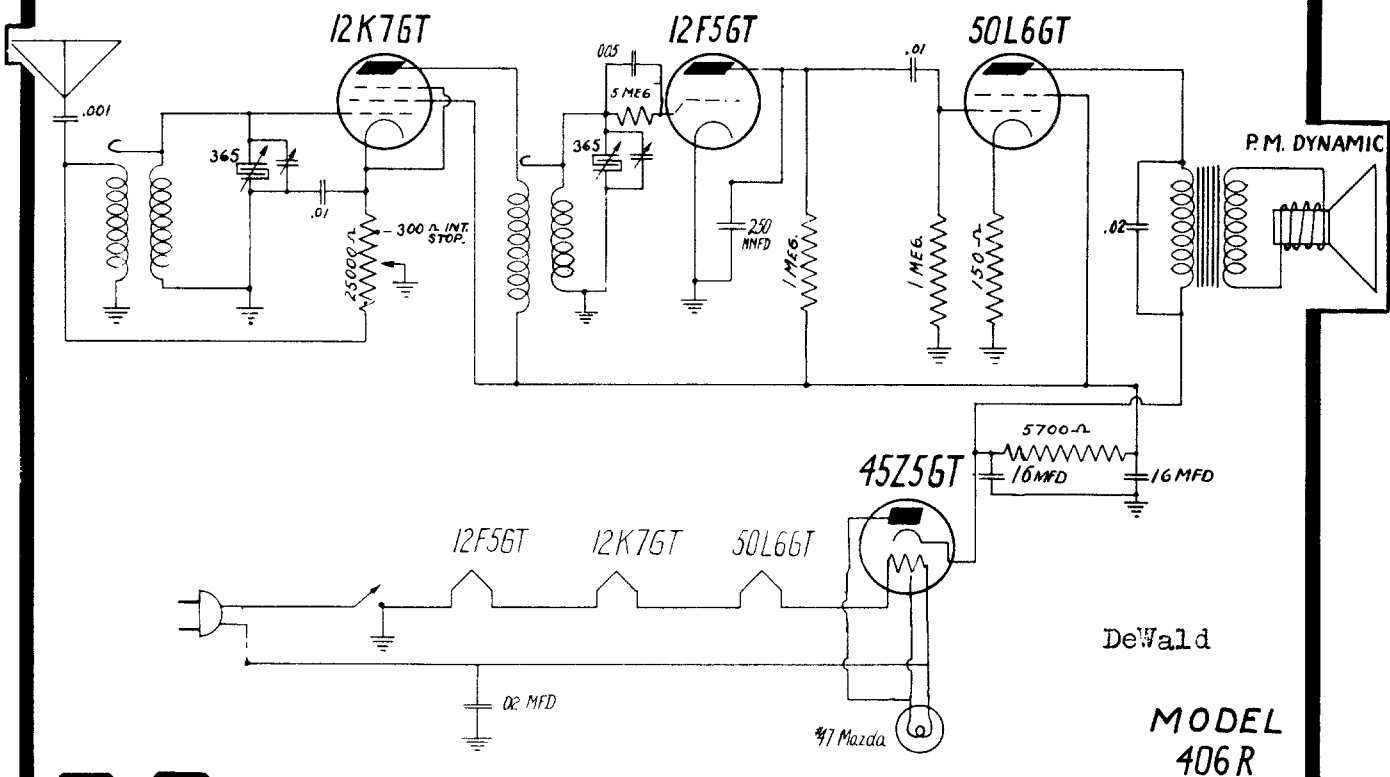
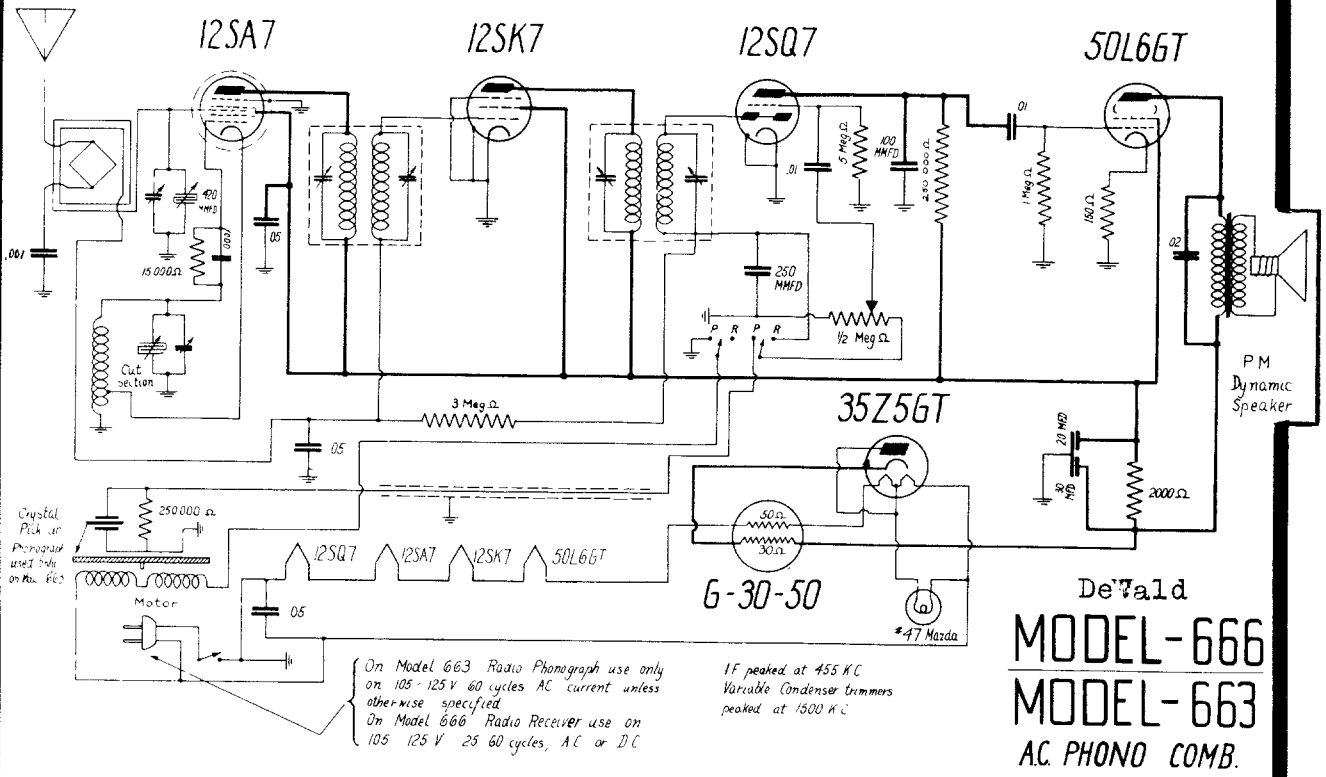
Tube	Function	SOCKET PIN NUMBER							
		No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
6SK7	R. F. Amplifier	GND.	H	3.0	GRID	3.0	92	H	91
6J7	Detector	GND.	H	8	2.0	—	H	H	2.0
25L6	Output	GND.	H	82	91	GRID	N.C.	H	5.8
25Z6	Rectifier	GND.	H	A.C.	120	A.C.	H	H	120
W-46416	Ballast Resistor - 165 Ohms (Cold)								

Between No. 3 and No. 7 Pins with No. 7 and No. 8 Pins Tied Together.

ANTENNA ROLL

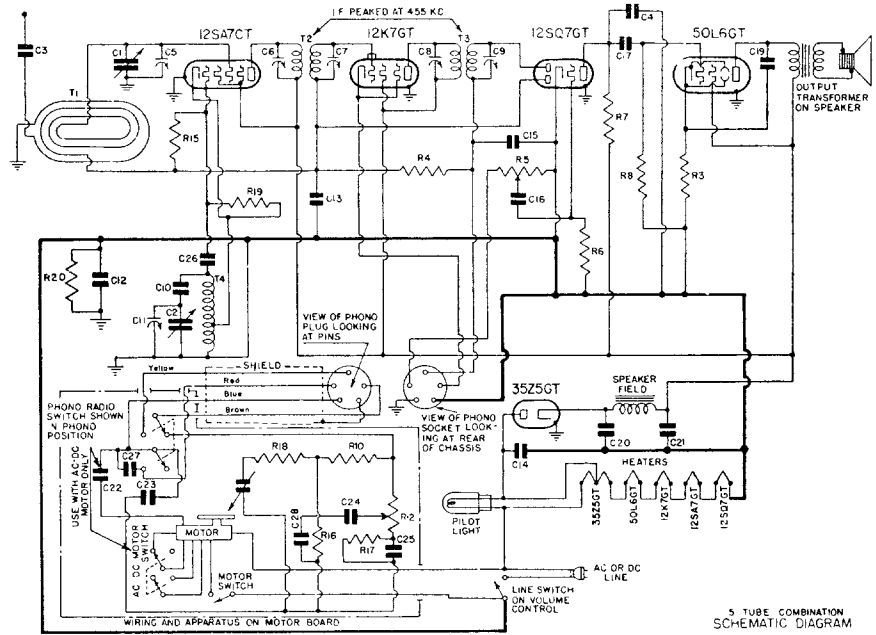
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MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



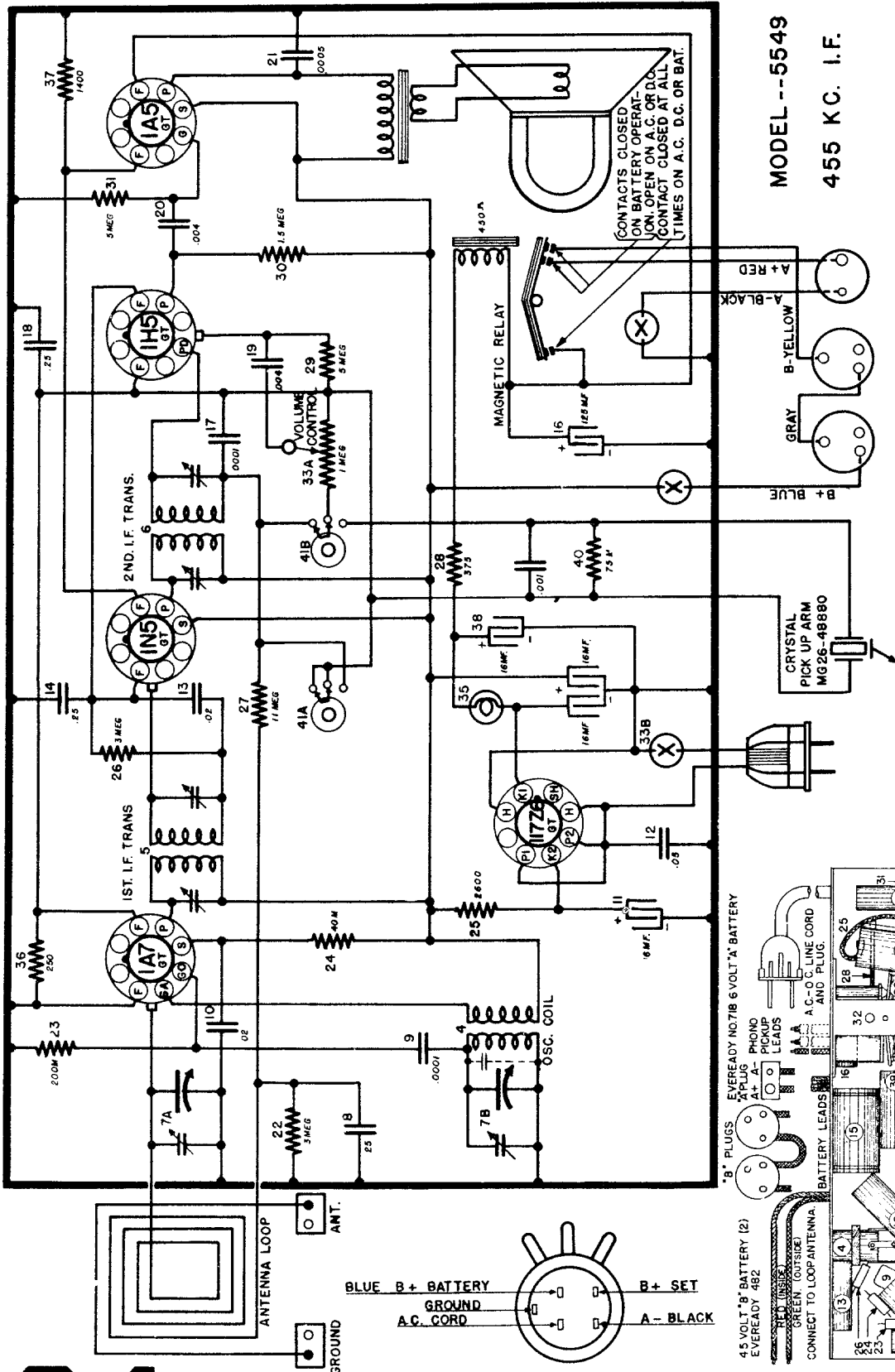
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

Emerson Radio



CV-289, 290 AND CV1-290 WITH 12SA7GT

ITEM	PART NO.	DESCRIPTION
T1	6MW-171B	Loop antenna assembly (for CV-289, CV-291 and CV1-291) (see prod. ch. No. 4)
T1	6VW-188A	Loop antenna assembly (for CV-290 and CV1-290) (see production change No. 4)
T4	7BT-486A	Oscillator coil (see production change No. 2)
T2	7BT-488C	Double-tuned 455 kc first i-f transformer
T3	7BT-489A	Double-tuned 455 kc second i-f transformer
	or	
	7FT-513D	Double-tuned 455 kc second i-f transformer
R1	2CR-193	30,000 ohm 1/2 watt carbon resistor
R2	KR-53	50,000 ohm 1/4 watt carbon resistor
R3	3FR-293	140 ohm 1/2 watt wire-wound resistor
R4	NNR-220	3 megohm 1/4 watt carbon resistor
R5	6VR-364	Volume control .5 megohm with line switch
R6, R15	4XR-327	15 megohm 1/4 watt carbon resistor
R7, R8,	} KR-56	500,000 ohm 1/4 watt carbon resistor
R11, R18		
R9, R10	KR-57	1 megohm 1/4 watt carbon resistor
R12	6VR-366	Tone control, 75,000 ohm, with motor line switch
R13	6RR-375	170 ohm 1 watt wire-wound resistor
R14	4XR-334	2,500 ohm 1 watt carbon resistor
R19	LR-60	20,000 ohm 1/4 watt carbon resistor
R16, R20	LR-61	200,000 ohm 1/4 watt carbon resistor
R17	KR-54	100,000 ohm 1/4 watt carbon resistor
C1, C2	6RC-436	Two-gang variable condenser
C3, C16	3HC-274	0.002 mf, 600 volt tubular condenser
C4, C15, C26	4XC-394A	0.00022 mf mica condenser
+C5, C11		Trimmers, part of variable condenser
+C6, C7, C8, C9		Trimmers, part of i-f transformers
C10, C13, C23	BC-12	0.05 mf, 200 volt tubular condenser
C12	3CC-302	0.15 mf, 200 volt tubular condenser
C14	LC-64	0.05 mf, 400 volt tubular condenser
C17	6JC-425	0.024 mf, 400 volt tubular condenser
C18	4XC-404	20 mf, 150 volt dry electrolytic condenser
C19	LC-65	0.02 mf, 400 volt tubular condenser
C20, C21	6JC-426B	Dual 20 mf, 150 volt dry electrolytic condenser
C22	3LC-297A	0.01 mf, 400 volt tubular condenser (used only with a.c.-d.c. motors)
C24	IC-47A	0.0005 mf mica condenser
C25	KC-59	0.006 mf, 400 volt tubular condenser (see production change No. 6)
C27	CCC-127	0.01 mf, 200 volt tubular condenser
C28	NC-70A	0.0002 mf mica condenser
	6JS-368U	4" dynamic speaker (not used on CV-291 or CV1-191)
	6JS-386	6 1/2" permanent magnet dynamic speaker



MODEL --5549
455 KC. I.F.

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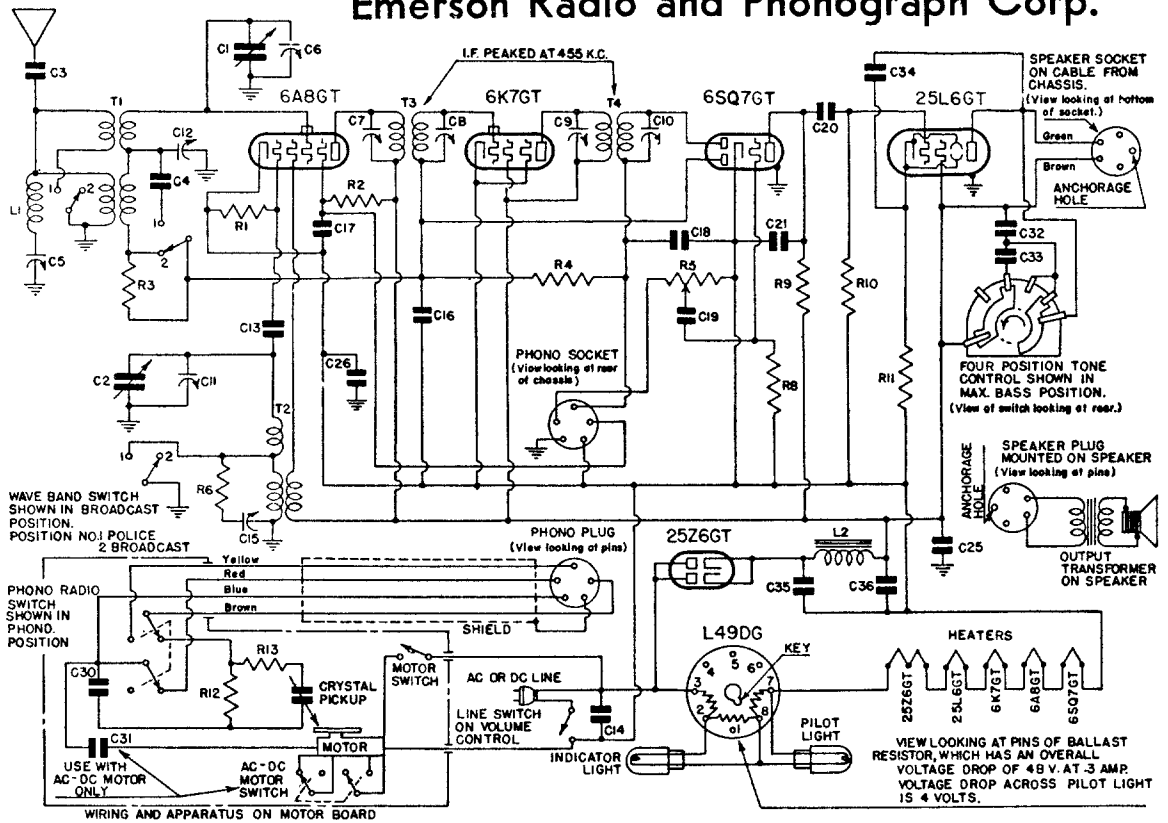
MODEL CG-293 (For A.C. Operation Only)

MODEL CG1-293 (For A.C. or D.C. Operation)

MODEL CG-294 (A.C. Automatic Record Changer)

MODEL CG1-294 (A.C.-D.C. Automatic Record Changer)

Emerson Radio and Phonograph Corp.



T1, L1	6GT-468	Two-band antenna coil with 455 kc wave-trap
T2	6GT-469	Two-band oscillator coil
T3	4XT-434CU	455 kc first i-f transformer
T4	4XT-435H	455 kc second i-f transformer
R1, R2	KR-53	50,000 ohm 1/4 watt carbon resistor
R3, R6	PR-79	1,000 ohm 1/4 watt carbon resistor
R4	NNR-220	3 megohm 1/4 watt carbon resistor (see production change no. 2)
R5	6SR-362	Volume control—250,000 ohms with line switch (see production change no. 2)
R8	4XR-327	15 megohm 1/4 watt carbon resistor
R9, R10	KR-56	500,000 ohm 1/4 watt carbon resistor (see production change no. 1)
R11	3FR-293	140 ohm 1/2 watt wire-wound resistor
R12	KR-55	250,000 ohm 1/4 watt carbon resistor
R13	KR-57	1 megohm 1/4 watt carbon resistor
C1, C2	6GC-428	Two-gang variable condenser
C3	NNC-199	0.001 mf, 600 volt tubular condenser
C4	6GC-429	0.00064 mf mica condenser
C12, C15	6GC-430	Dual trimmer assembly
C13	IIC-133A	0.000025 mf mica condenser
C14	LC-64	0.05 mf, 400 volt tubular condenser
C16, C17	} BC-12	0.05 mf, 200 volt tubular condenser
C25, C30		0.0002 mf, 600 volt tubular or mica condenser
C18, C21	5AC-384	0.002 mf, 600 volt tubular condenser
C19	3HC-274	0.02 mf, 400 volt tubular condenser
C20	LC-65	0.15 mf, 200 volt tubular condenser
C26	3CC-302	0.01 mf, 400 volt molded condenser (for a.c.-d.c. motors only)
C31	3LC-297A	0.03 mf, 200 volt tubular condenser
C32, C33	ZZC-211	0.005 mf, 400 volt tubular condenser
C34	XXC-207	Multiple 20 and 40 mf, 150 volt dry electrolytic condenser
C35, C36	6QC-437	C35—20 mf C36—40 mf

Emerson Radio

MODELS: DQ-333 and DQ-334 | MODELS: DQ1-333 and DQ1-334

- L1 Loop antenna
- T4 Oscillator coil
- T2 T3 I.F. transformers
- R1 20,000 ohm $\frac{1}{4}$ w.
- R3 140 ohm $\frac{1}{2}$ watt
- R4 3 megohm $\frac{1}{4}$ watt
- R5 .5 megohm V.C.
- R2 R6 15 megohm $\frac{1}{4}$ w.
- R7 R8 .5 megohm $\frac{1}{4}$ w.
- R9 200,000 ohm $\frac{1}{4}$ w.
- C10 0.1 mfd. 200 v.
- C14 0.05 mfd. 400 v.
- C4 C15 0.0002 mfd. mica
- C3 C16 0.002 mfd. 600 v.
- C20-21 Dual 20 mfd. 150
- C22 0.2 mfd. 200 v.
- C24 0.02 mfd. 400 v.
- C25 0.01 mfd. 400 v.

Location of Coils and Trimmer Adjustments

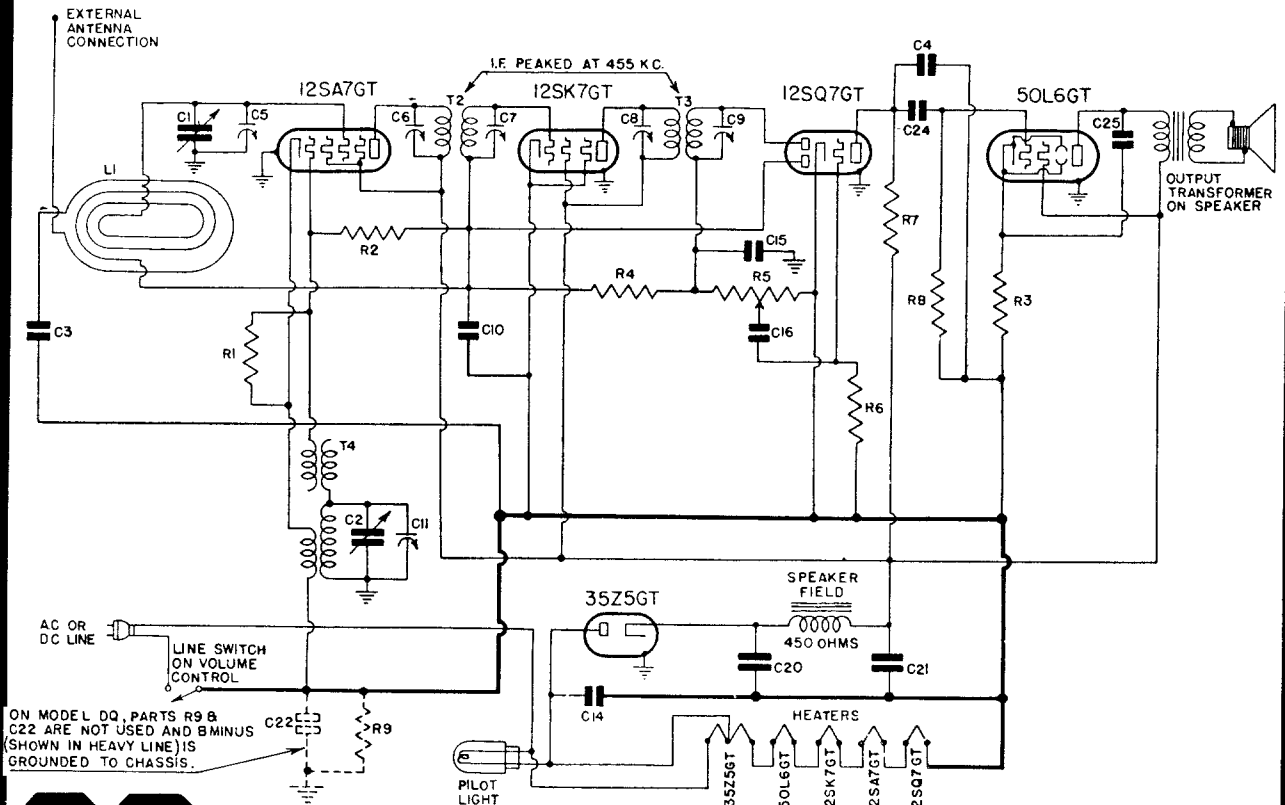
The first i-f transformer is mounted on top of the chassis deck to the right of the variable condenser. The trimmers are accessible through holes in the top of the can.

The second i-f transformer is mounted on top of the chassis between the variable condenser and the speaker. The trimmers are accessible through holes in the top of the can.

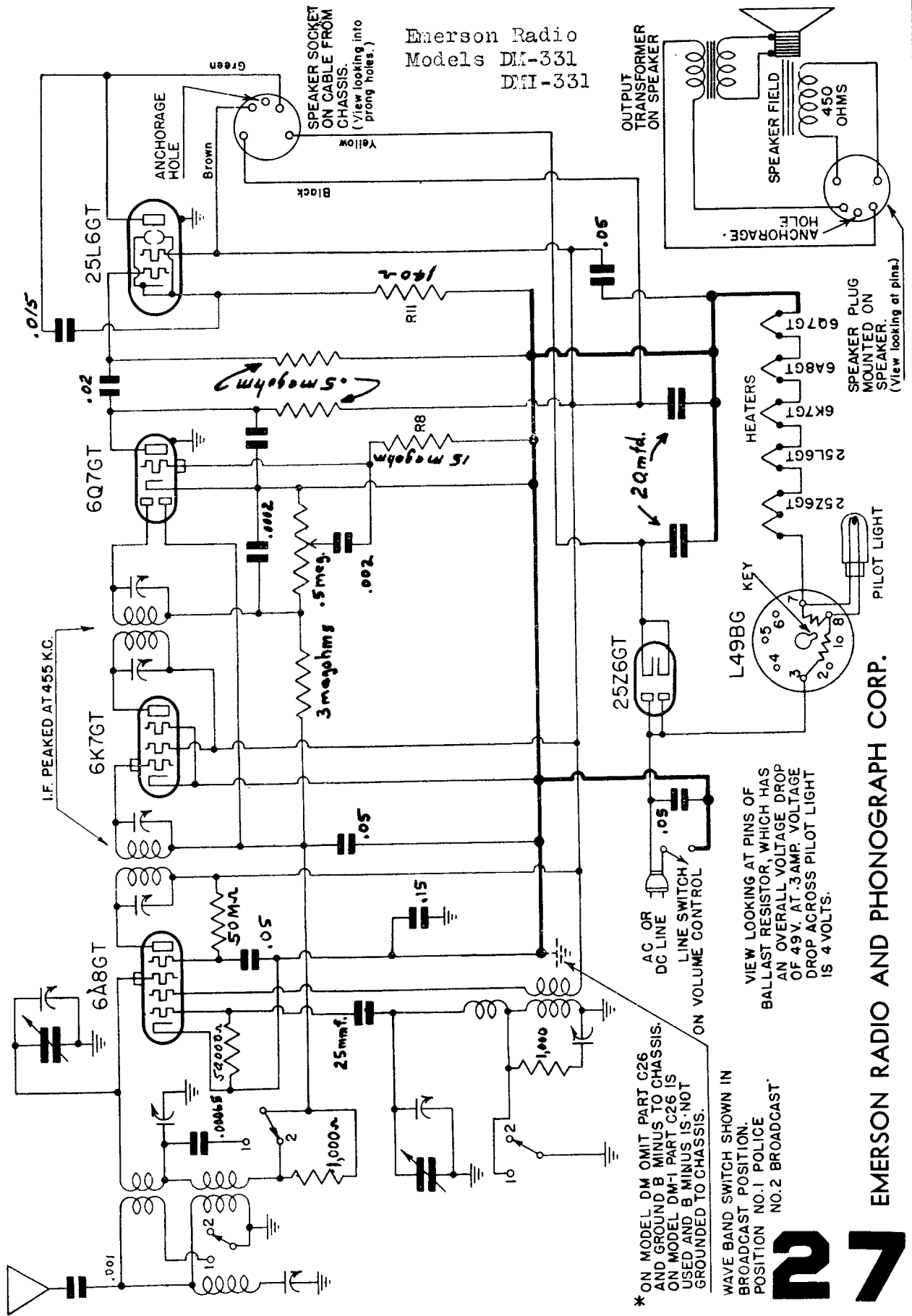
The trimmers for the antenna and oscillator coils are located on the variable condenser. The trimmer on the front section is for the oscillator coil.

The oscillator coil is located underneath the chassis. The loop antenna acts as the antenna coil.

An oscillator with frequencies of 455 and 1400 kc is required.



Emerson Radio
Models DM-331
DMI-331



* ON MODEL DM OMIT PART C26 AND GROUND B MINUS TO CHASSIS. ON MODEL DMI-1 PART C26 IS USED AND B MINUS IS NOT GROUNDED TO CHASSIS.

WAVE BAND SWITCH SHOWN IN BROADCAST POSITION. POSITION NO.1 POLICE NO.2 BROADCAST

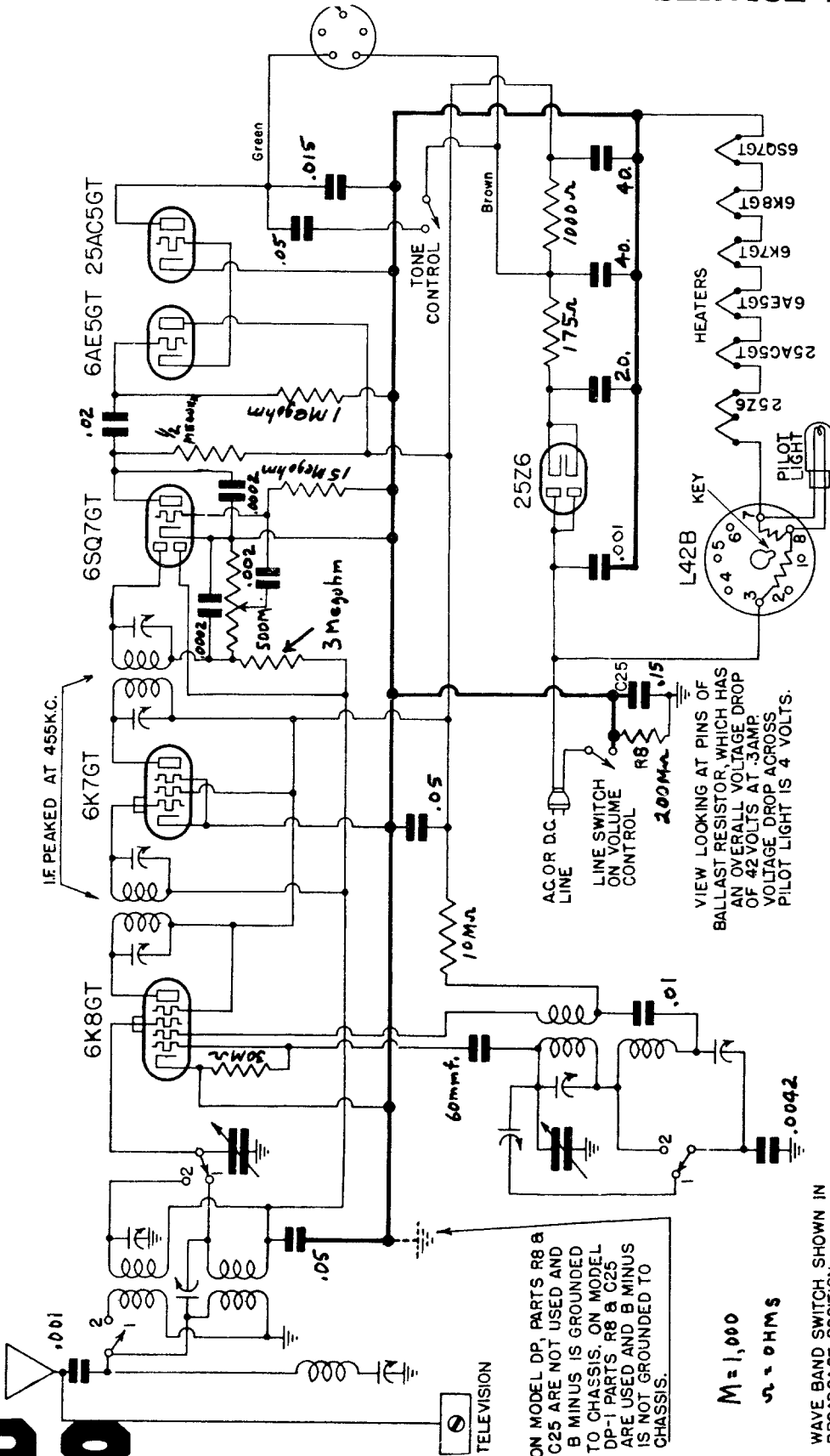
VIEW LOOKING AT PINS OF BALLAST RESISTOR, WHICH HAS AN OVERALL VOLTAGE DROP OF 49V. AT .3AMP. VOLTAGE DROP ACROSS PILOT LIGHT IS 4 VOLTS.

EMERSON RADIO AND PHONOGRAPH CORP.

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MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

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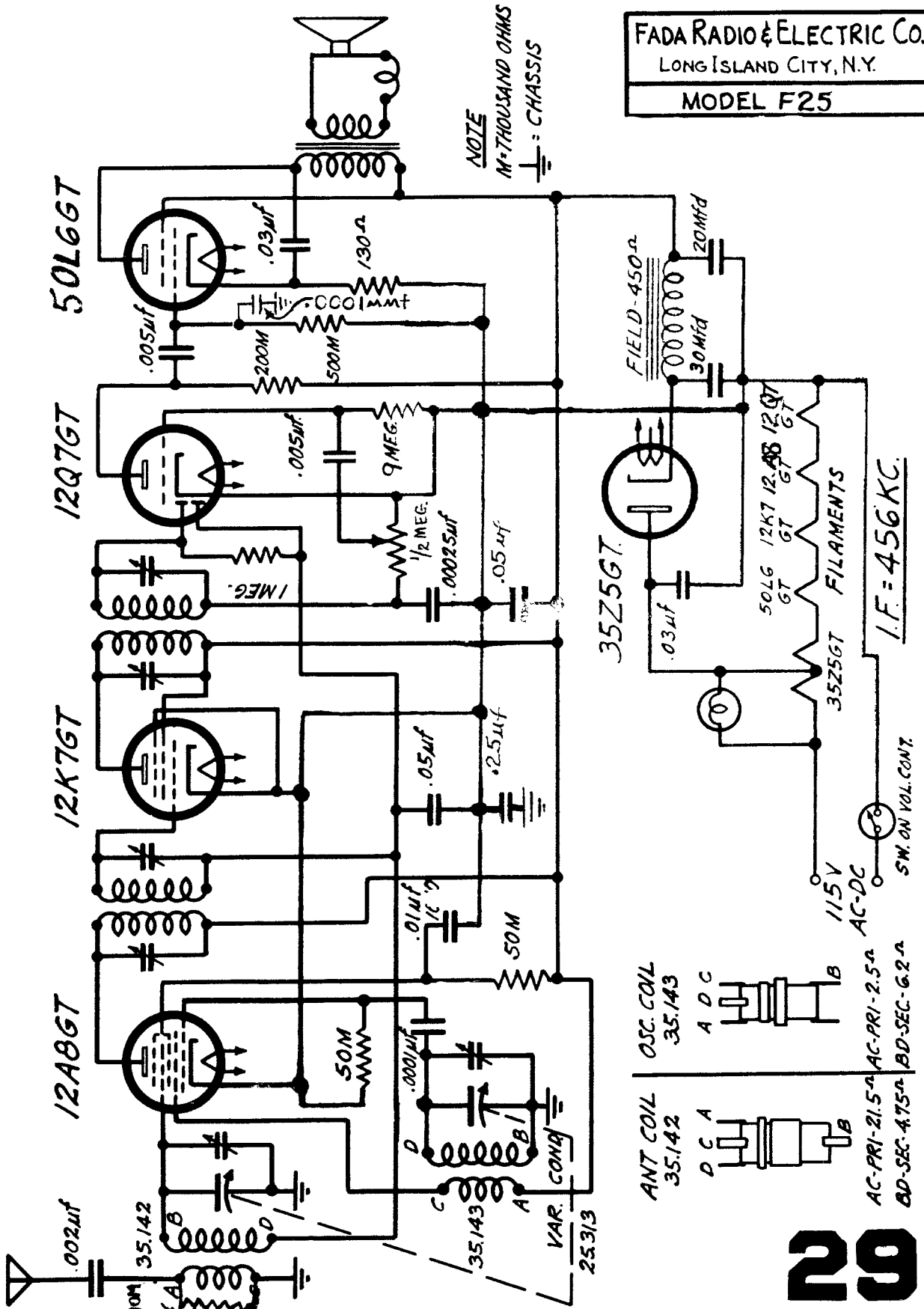


EMERSON RADIO AND PHONOGRAPH CORP.

Models DP-332, DP1-332

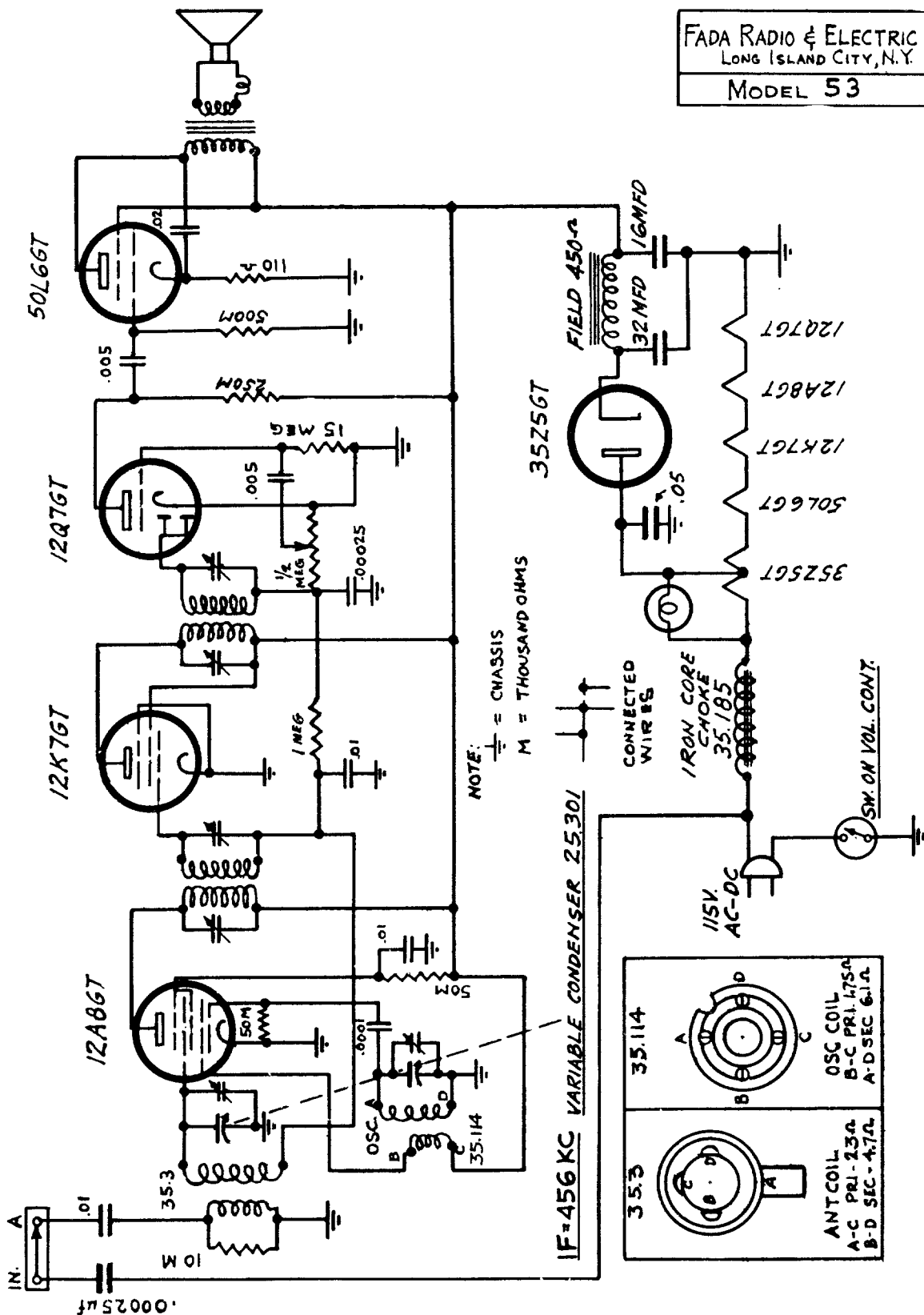
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

FADA RADIO & ELECTRIC CO.
LONG ISLAND CITY, N.Y.
MODEL F25

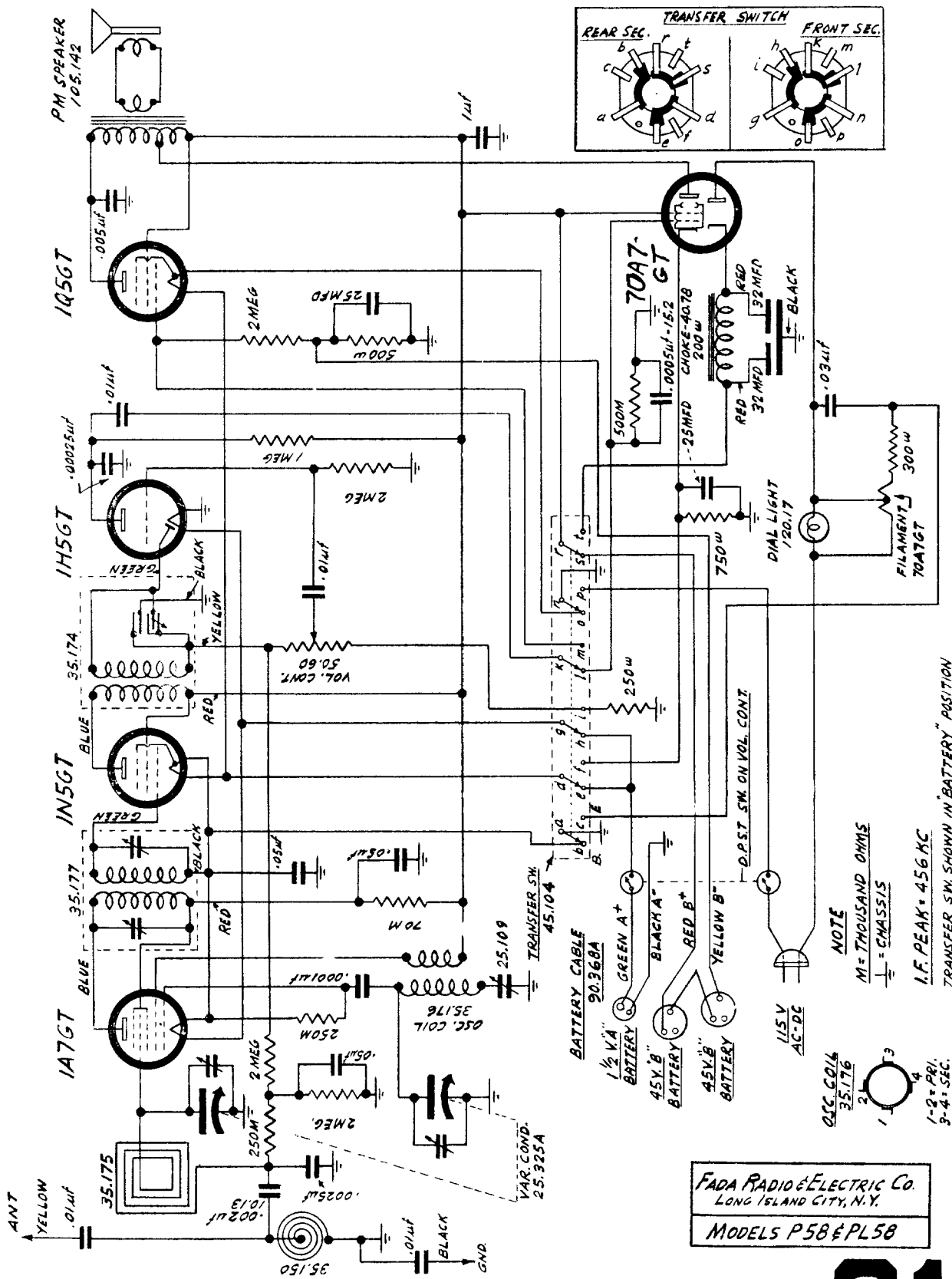


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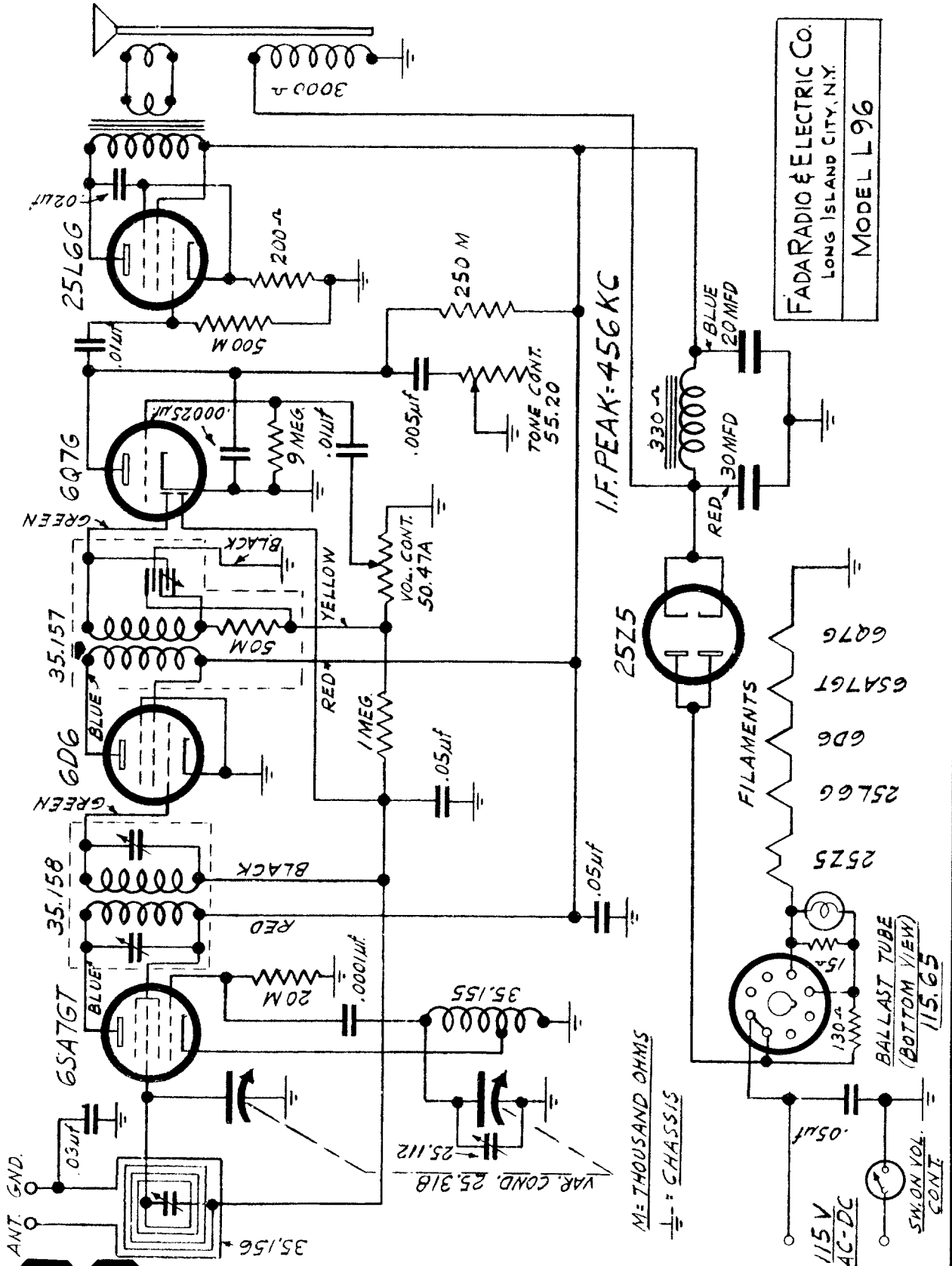
FADA RADIO & ELECTRIC Co.
LONG ISLAND CITY, N.Y.
MODEL 53



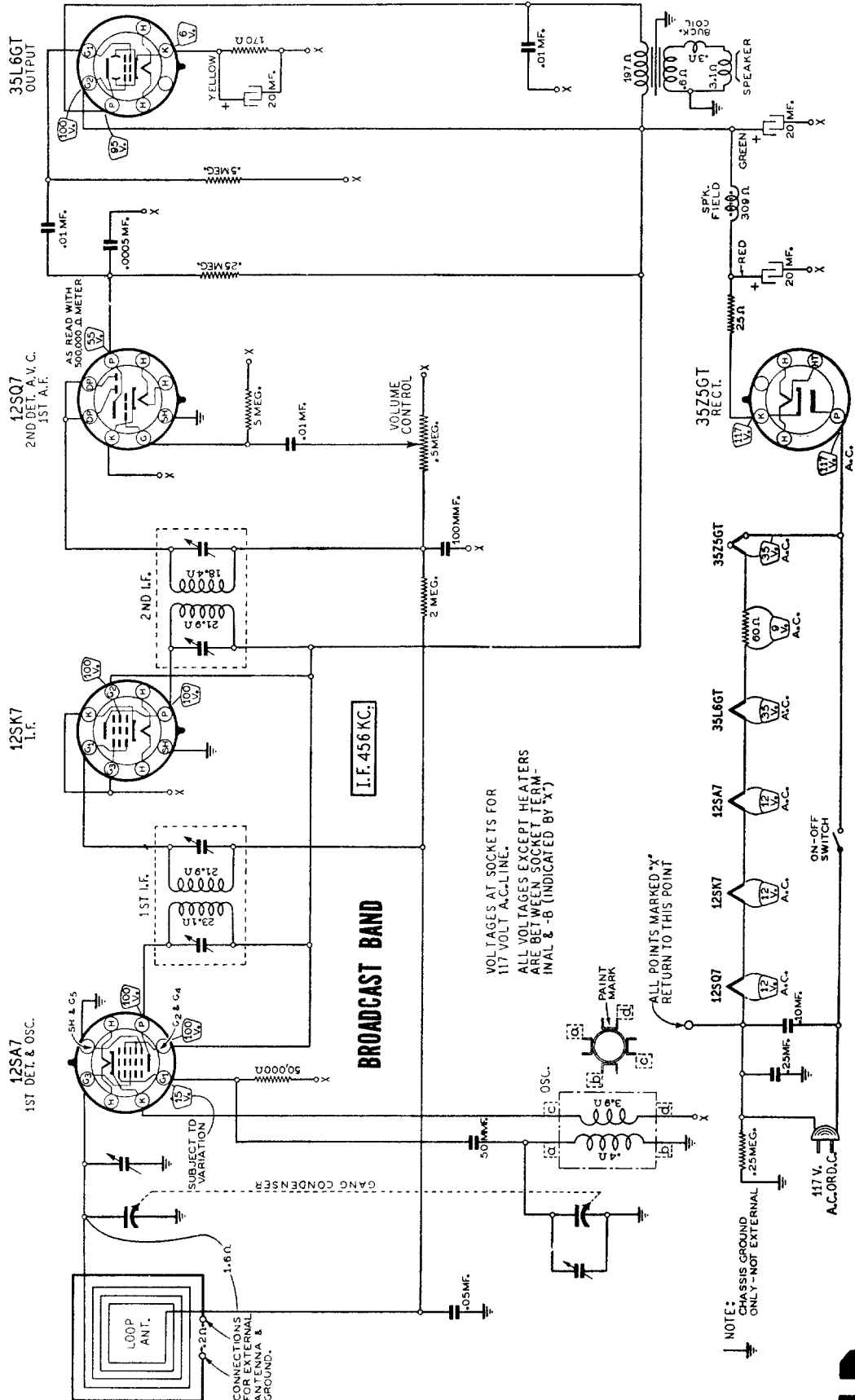
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



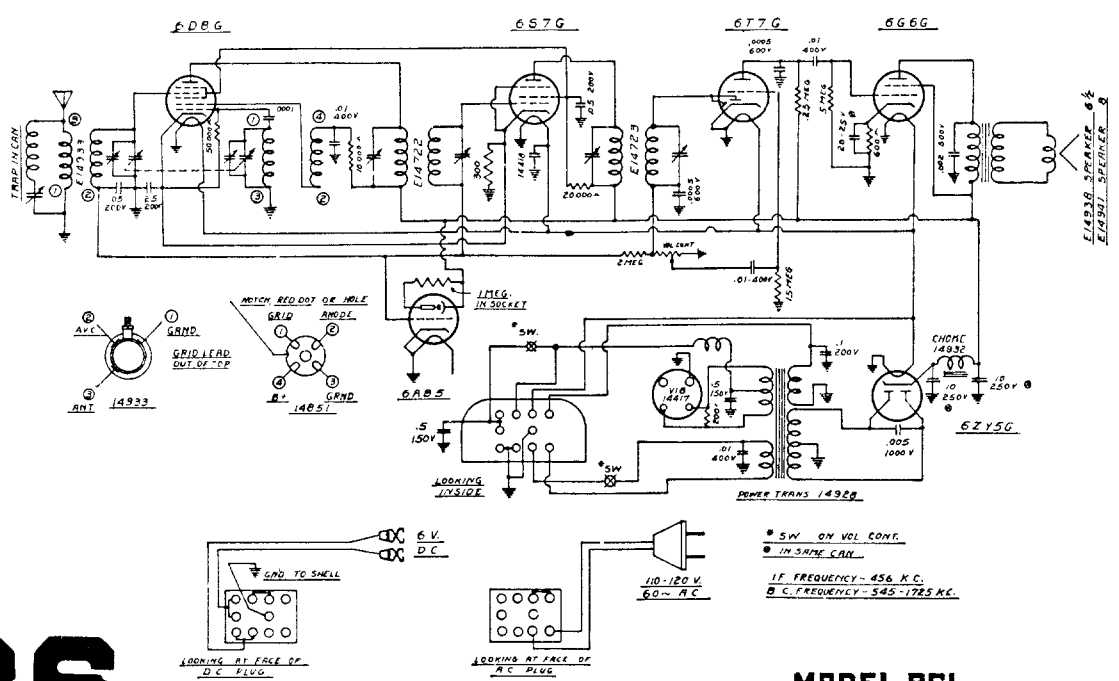
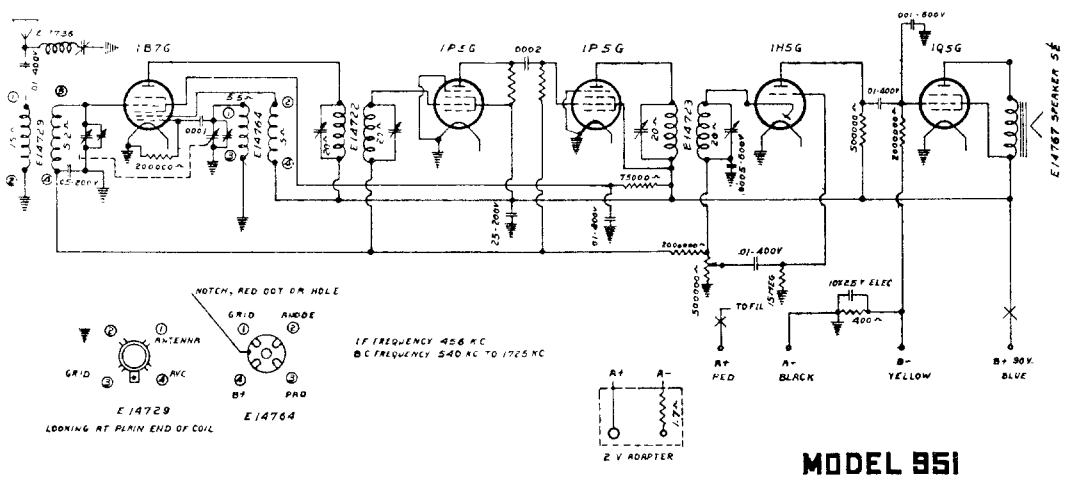
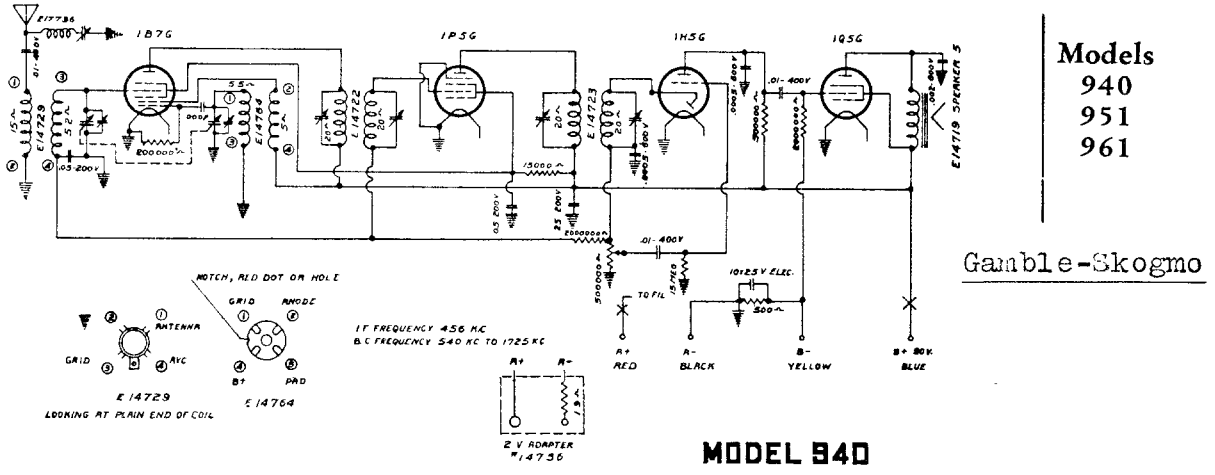
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



Gamble-Skogmo

Series 5D2

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

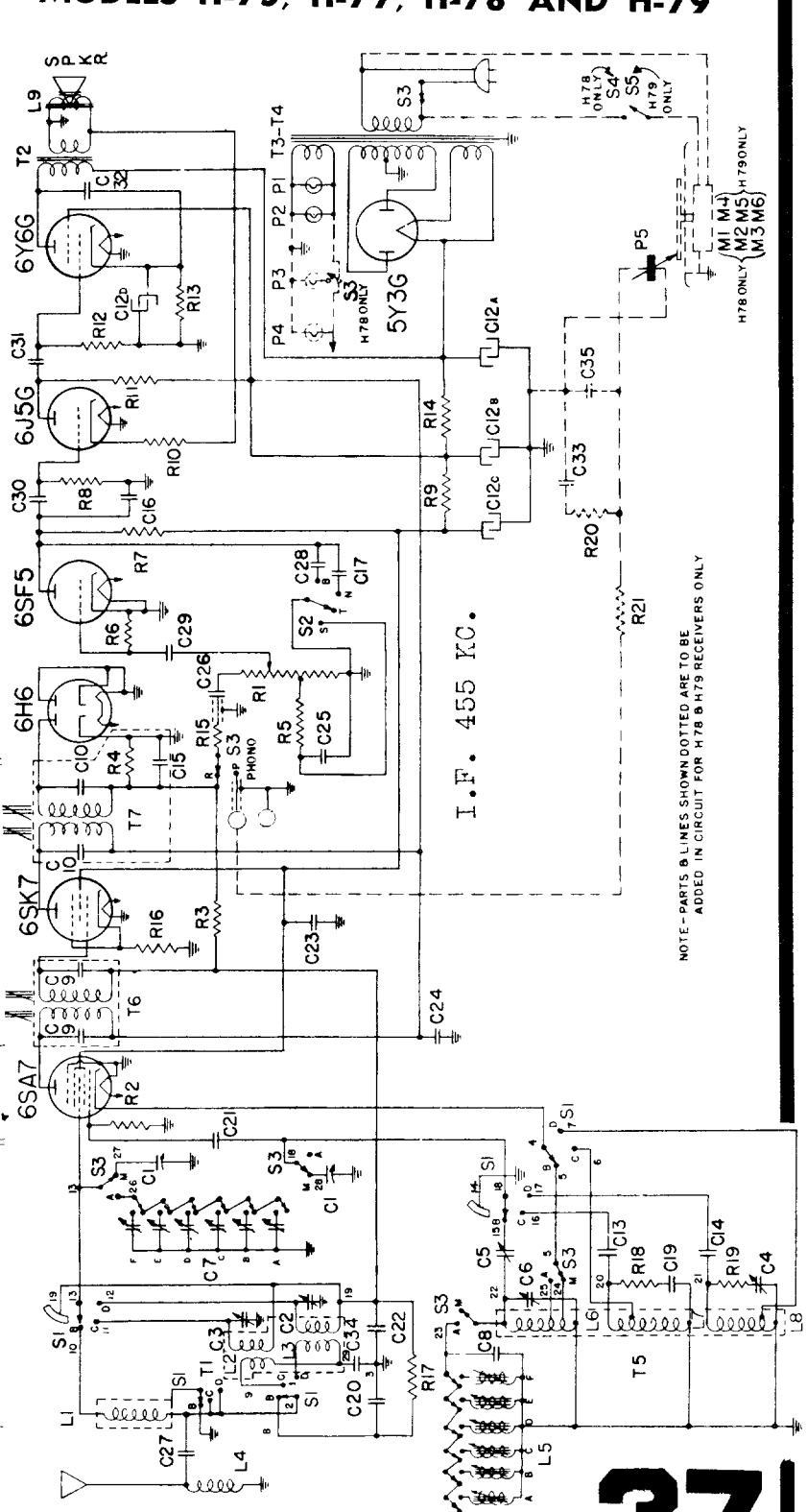


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GENERAL ELECTRIC

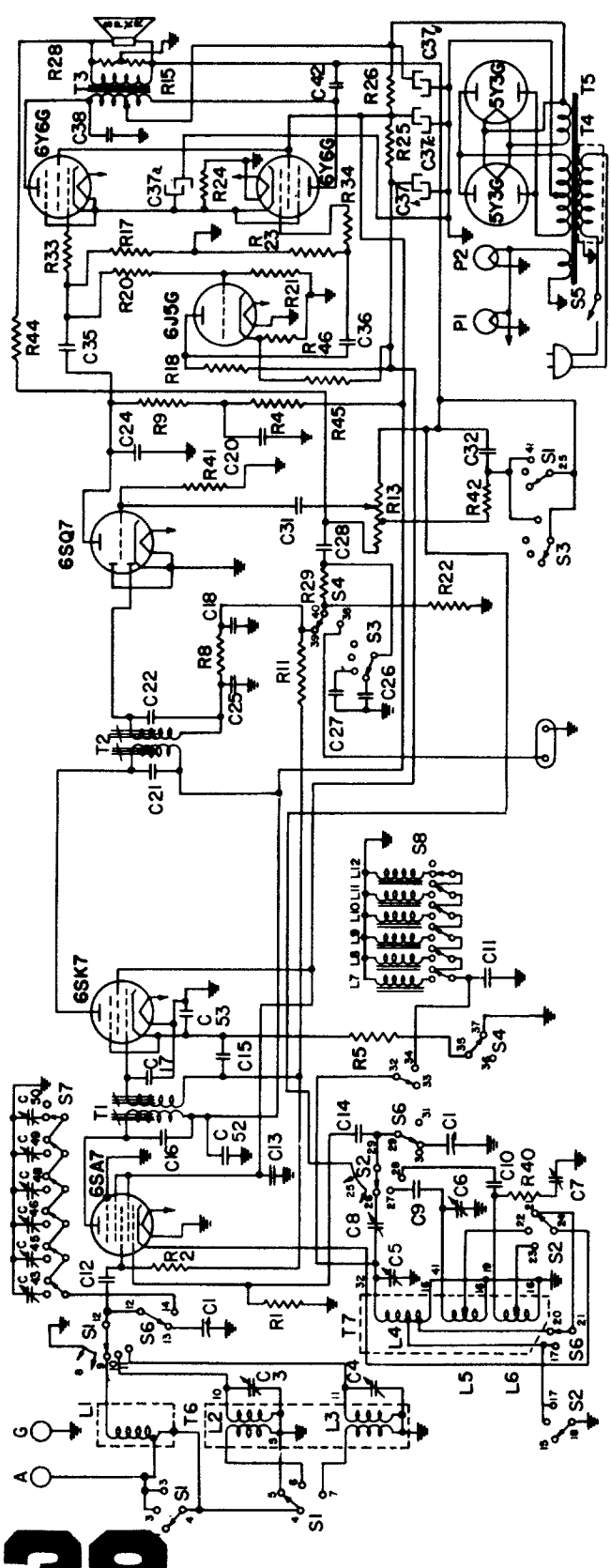
MODELS H-73, H-77, H-78 AND H-79

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
C-1	Tuning condenser	L-5E	Touch Tuning trimmer coil	L-5E	50 mmf. mica capacitor	L-5E	Touch Tuning trimmer coil
C-2	"C" band antenna trimmer	L-5F	Touch Tuning trimmer coil	L-5F	.05 mid. paper capacitor	L-5F	Touch Tuning trimmer coil
C-3	"D" band antenna trimmer	M-1	Phono motor, 60 cycles	M-1	.05 mid. paper capacitor	M-1	Phono motor, 60 cycles
C-4	"B" band oscillator trimmer	M-2	Phono motor, 25 cycles	M-2	.0072 mid. paper capacitor	M-2	Phono motor, 25 cycles
C-5	"B" band oscillator trimmer	M-3	Phono motor, 60 cycles	M-3	.0072 mid. paper capacitor	M-3	Phono motor, 60 cycles
C-6	100-490 mmf. trimmer	M-4	Phono motor, 25 cycles	M-4	.01 mid. paper capacitor	M-4	Phono motor, 25 cycles
C-7A	100-490 mmf. trimmer	M-5	Phono motor, 60 cycles	M-5	.01 mid. paper capacitor	M-5	Phono motor, 60 cycles
C-7B	100-490 mmf. trimmer	M-6	Phono motor, 25 cycles	M-6	.01 mid. paper capacitor	M-6	Phono motor, 25 cycles
C-7C	20-180 mmf. trimmer	P-1	Phot. lamp, Mazda No. 44	P-1	.01 mid. paper capacitor	P-1	Phot. lamp, Mazda No. 44
C-7D	20-180 mmf. trimmer	P-2	Phot. lamp, Mazda No. 44	P-2	.01 mid. paper capacitor	P-2	Phot. lamp, Mazda No. 44
C-7E	7-65 mmf. trimmer	P-3	Crystal Pick-up	P-3	.01 mid. paper capacitor	P-3	Crystal Pick-up
C-7F	750 mmf. silvered mica capacitor	P-4	Volume Control	P-4	.01 mid. paper capacitor	P-4	Volume Control
C-7G	Adjusted silvered mica capacitors	R-1	22 megohms carbon	R-1	.01 mid. paper capacitor	R-1	22 megohms carbon
C-8	Adjusted silvered mica capacitors	R-2	2.2 megohms carbon	R-2	.01 mid. paper capacitor	R-2	2.2 megohms carbon
C-9	50 mid. dry electrolytic	R-3	470,000 ohms carbon	R-3	.01 mid. paper capacitor	R-3	470,000 ohms carbon
C-10	20 mid. dry electrolytic	R-4	56,000 ohms carbon	R-4	.01 mid. paper capacitor	R-4	56,000 ohms carbon
C-11	20 mid. dry electrolytic	R-5	15 megohms carbon	R-5	.01 mid. paper capacitor	R-5	15 megohms carbon
C-12	2000 mmf. mica capacitor	R-6	220,000 ohms carbon	R-6	.01 mid. paper capacitor	R-6	220,000 ohms carbon
C-13	5600 mmf. mica capacitor	R-7	1.0 megohms carbon	R-7	.01 mid. paper capacitor	R-7	1.0 megohms carbon
C-14	100 mmf. mica capacitor	R-8	3,900 ohms carbon	R-8	.01 mid. paper capacitor	R-8	3,900 ohms carbon
C-15	100 mmf. mica capacitor	R-9	100,000 ohms carbon	R-9	.01 mid. paper capacitor	R-9	100,000 ohms carbon
C-16	100 mmf. mica capacitor	R-10	100,000 ohms carbon	R-10	.01 mid. paper capacitor	R-10	100,000 ohms carbon
C-17	680 mmf. mica capacitor						
C-18	22 mmf. mica capacitor						
C-19	4700 mmf. mica capacitor						
C-20							



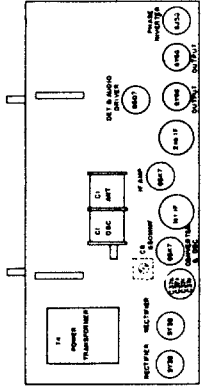
NOTE - PARTS & LINES SHOWN DOTTED ARE TO BE ADDED IN CIRCUIT FOR H78 & H79 RECEIVERS ONLY

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



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Trimmer Location

General Electric

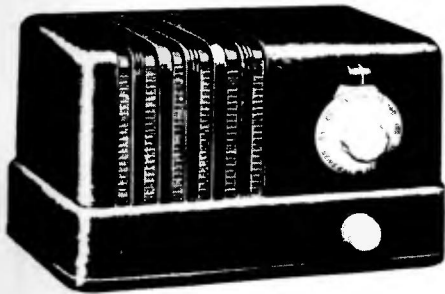
I. F. 455 KC.

MODEL H-87

Symbol	Description	Symbol	Description	Symbol	Description
C-1	Tuning Capacitor	C-42	.01 mfd., Paper Capacitor	R-20	3.3 megohms, Carbon Resistor
C-3	"C" Band Antenna Trimmer	C-43	7-.65 mfd., Antenna Trimmer	R-21	270,000 ohms, Carbon Resistor
C-4	"D" Band Antenna Trimmer	C-44	20-180 mfd., Antenna Trimmer	R-22	220,000 ohms, Carbon Resistor
C-5	"C" Band Oscillator Trimmer	C-45	100-180 mfd., Antenna Trimmer	R-23	150,000 ohms, Carbon Resistor
C-6	"D" Band Oscillator Trimmer	C-46	100-490 mfd., Antenna Trimmer	R-24	100 ohms, 3.4-W. Wire Wound
C-7	"C" Band Padder	C-47	100-490 mfd., Antenna Trimmer	R-25	2400 ohms, 2-W. Carbon Resistor
C-8	"D" Band Padder	C-48	.25 mfd., Paper Capacitor	R-26	2200 ohms, 2.6-W Wire Wound
C-9	1600 mfd., Mica Capacitor ±5%	C-49	.08 mfd., Paper Capacitor	R-27	68 ohms, Carbon Resistor
C-10	4300 mfd., Silvered Mica Capacitor ±5%	C-50	"C" Band Antenna Coil	R-28	47,000 ohms, Carbon Resistor
C-11	130 mfd., Mica Capacitor	C-51	"D" Band Antenna Coil	R-29	1000 ohms, Carbon Resistor
C-12	0.1 mfd., Paper Capacitor	C-52	"B" Band Oscillator Coil	R-30	1000 ohms, Carbon Resistor
C-13	47 mfd., Mica Capacitor	C-53	"D" Band Oscillator Coil	R-31	33 ohms, Carbon Resistor
C-14	0.1 mfd., Paper Capacitor	C-54	Tuning Coil (Code—None)	R-32	100,000 ohms, Carbon Resistor
C-15	32 mfd., Paper Capacitor	C-55	Tuning Coil (Code—Red)	R-33	4.7 megohms, Carbon Resistor
C-16	32 mfd., Paper Capacitor	C-56	Tuning Coil (Code—Blue)	R-34	4.7 megohms, Carbon Resistor
C-17	10 mfd., Paper Capacitor	C-57	22,000 ohms, Carbon Resistor	R-35	15,000 ohms, 1-W. Carbon Resistor
C-18	10 mfd., Paper Capacitor	C-58	1,000 ohms, Carbon Resistor	R-36	270 ohms, Carbon Resistor
C-19	470 mfd., Mica Capacitor	C-59	47,000 ohms, Carbon Resistor	R-37	Pilot Light, Mazda No. 44
C-20	470 mfd., Mica Capacitor	C-60	220,000 ohms, Carbon Resistor	R-38	Pilot Light, Mazda No. 44
C-21	.01 mfd., Paper Capacitor	C-61	2.2 megohms, Carbon Resistor	R-39	Antenna Band Switch
C-22	470 mfd., Mica Capacitor	C-62	15 ohms, Carbon Resistor	R-40	Oscillator Band Switch
C-23	470 mfd., Mica Capacitor	C-63	330,000 ohms, Carbon Resistor	R-41	Tone Switch
C-24	.01 mfd., Paper Capacitor	C-64	47,000 ohms, Carbon Resistor	R-42	Power Switch
C-25	.01 mfd., Paper Capacitor	C-65	47,000 ohms, Carbon Resistor	R-43	Manual Switch
C-26	.05 mfd., Paper Capacitor	C-66	220,000 ohms, Carbon Resistor	R-44	Antenna Section, Touch Tuning
C-27	.05 mfd., Paper Capacitor	C-67	20 mfd., 25 V. Dry Electrolytic	R-45	Switch Section, Touch Tuning
C-28	.01 mfd., Paper Capacitor	C-68	20 mfd., 250 V. Dry Electrolytic	R-46	Switch
C-29	.01 mfd., Paper Capacitor	C-69	20 mfd., 250 V. Dry Electrolytic		
C-30	.01 mfd., Paper Capacitor	C-70	.02 mfd., Paper Capacitor		
C-31	.01 mfd., Paper Capacitor				
C-32	.008 mfd., Paper Capacitor				
C-33	.05 mfd., Paper Capacitor				
C-34	.05 mfd., Paper Capacitor				
C-35	.05 mfd., Paper Capacitor				
C-36	.05 mfd., Paper Capacitor				
C-37a	20 mfd., 25 V. Dry Electrolytic				
C-37b	20 mfd., 250 V. Dry Electrolytic				
C-37c	20 mfd., 250 V. Dry Electrolytic				
C-37d	.02 mfd., Paper Capacitor				
C-38	.02 mfd., Paper Capacitor				

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

General Electric **MODEL H-400**



GENERAL INFORMATION

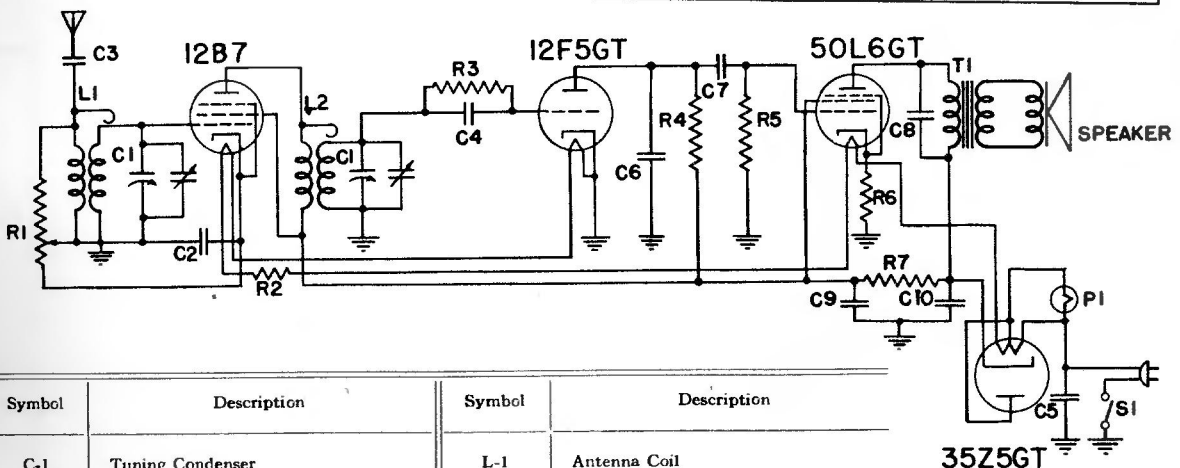
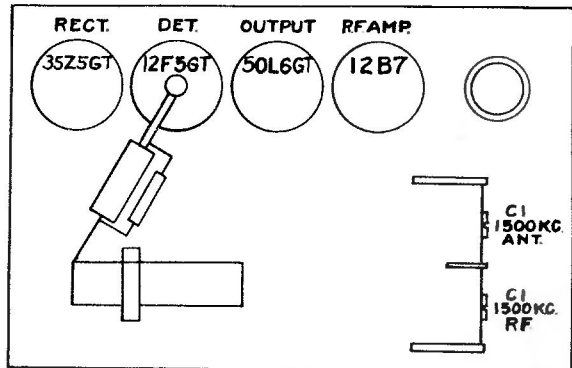
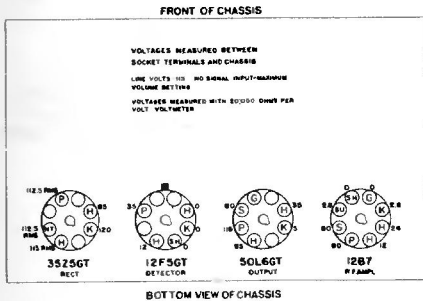
Model H-400 is a compact four-tube AC-DC tuned radio-frequency receiver that tunes the standard broadcast band of frequencies and one police band. One side of the power line is connected directly to the chassis ground; therefore, caution should be exercised in servicing.

When operating from a DC source of power it is necessary to insert the power plug with the proper polarity. If the receiver fails to function with the power plug inserted one way, reverse the plug. If any hum is noticed when the receiver is used on A-C, reverse the power plug as above.

ALIGNMENT

Connect the high side of the signal generator through a 100-mmf condenser to the terminal to which the antenna hank is soldered. The low side of the signal generator output should be connected to the receiver chassis through a .05 mfd. condenser. Connect a suitable output meter across the voice coil leads; then proceed as follows:

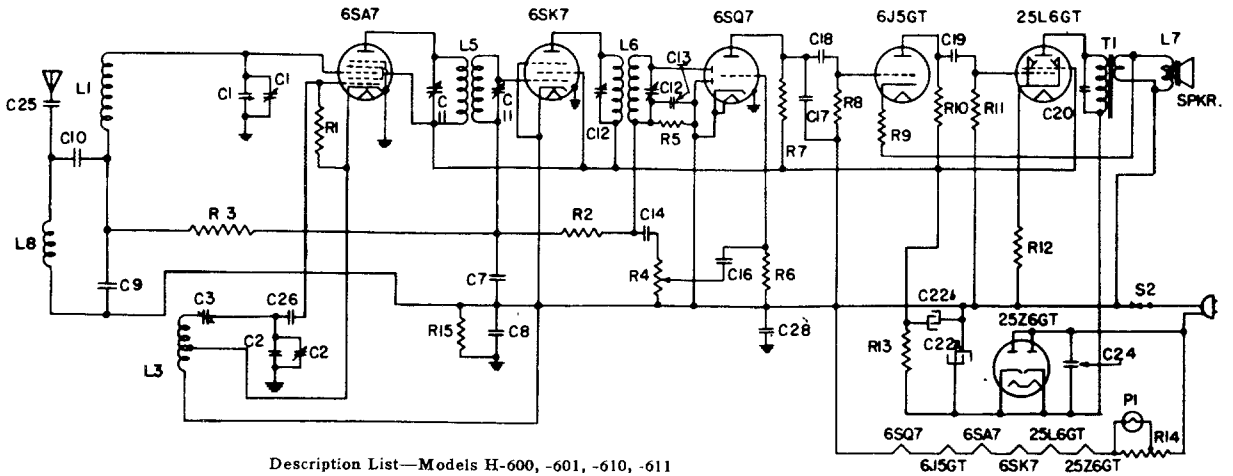
1. With gang condenser plates completely closed, the tuning index should be over the last calibration mark on the dial.
2. Set volume control to about $\frac{3}{4}$ of maximum.
3. Rotate gang to minimum capacity and tune trimmers on the gang condenser to 1750 KC signal. Re-tune gang to 1500 KC signal and peak trimmers by alternate adjustment.



Symbol	Description	Symbol	Description
C-1	Tuning Condenser	L-1	Antenna Coil
C-2	.01 mfd., 600 V. Paper	L-2	R.F. Coil
C-3	.001 mfd., 600 V. Paper	P-1	Pilot Lamp, MAZDA No. 47
C-4	.005 mfd., 600 V. Paper	R-1	30,000 ohm, Volume Control (300 ohm step)
C-5	.01 mfd., 600 V. Paper	R-2	75 ohm, 2-W. Carbon
C-6	330 mmf., Mica	R-3	4.7 megohm, $\frac{1}{2}$ -W. Carbon
C-7	.01 mfd., 600 V. Paper	R-4	1.0 megohm, $\frac{1}{2}$ -W. Carbon
C-8	.02 mfd., 600 V. Paper	R-5	1.0 megohm, $\frac{1}{2}$ -W. Carbon
C-9	20 mfd., 150 V. Dry Electrolytic	R-6	150 ohm, $\frac{1}{2}$ -W. Carbon \pm 5%
C-10	40 mfd., 150 V. Dry Electrolytic	R-7	4700 ohm, $\frac{1}{2}$ -W. Carbon

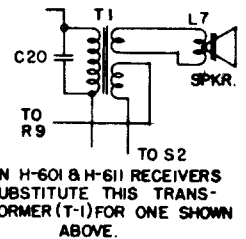
35Z5GT

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



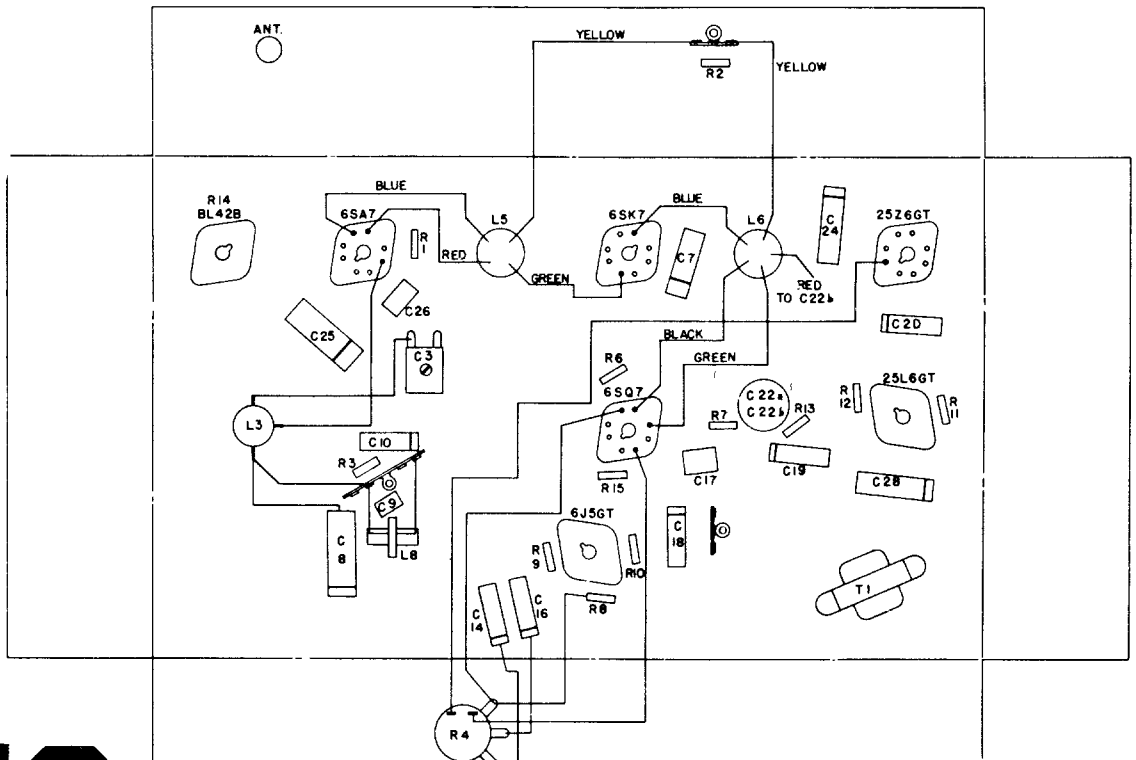
Description List—Models H-600, -601, -610, -611

Symbol	Description	Symbol	Description
C1	Antenna section of tuning condenser	R3	470,000 ohms carbon resistor
C2	Oscillator section of tuning condenser	R4	2 megohms volume control
C3	"B" band padder	R5	470,000 ohms carbon resistor
C7	.05 mfd. paper capacitor	R6	15 megohms carbon resistor
C8	0.1 mfd. paper capacitor	R7	470,000 ohms carbon resistor
C9	3900 mmf. $\pm 5\%$ mica capacitor	R8	1.0 megohm carbon resistor
C10	.01 mfd. paper capacitor	R9	3300 ohms carbon resistor
C13	470 mmf. mica capacitor	R10	39,000 ohms carbon resistor
C14	.002 mfd. paper capacitor	R11	470,000 ohms carbon resistor
C16	.02 mfd. paper capacitor	R12	150 ohms carbon resistor
C17	470 mmf. mica capacitor	R13	1000 ohms carbon resistor
C18	.005 mfd. paper capacitor	R14	BL42B ballast resistor
C19	.005 mfd. paper capacitor	R15	470,000 ohms carbon resistor
C20	.01 mfd. paper capacitor	L1	Beam-a-Scope
C22a	50 mfd. 150 V dry electrolytic	L3	Oscillator coil
C22b	30 mfd. 150 V dry electrolytic	L5	1st I.F. transformer
C24	.05 mfd. paper capacitor	L6	2nd I.F. transformer
C25	.01 mfd. paper capacitor	L7	Speaker voice coil
C26	47 mmf. mica capacitor	L8	Antenna choke, 1 1/4 MH
C28	0.1 mfd. paper capacitor	P1	Pilot lamp, MAZDA No. 44
R1	33,000 ohms carbon resistor	T1	Output transformer
R2	2.2 megohms carbon resistor		



ON H-601 & H-611 RECEIVERS
SUBSTITUTE THIS TRANS-
FORMER (T-1) FOR ONE SHOWN
ABOVE.

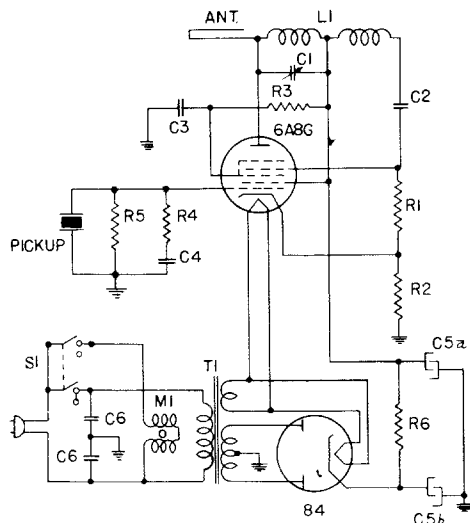
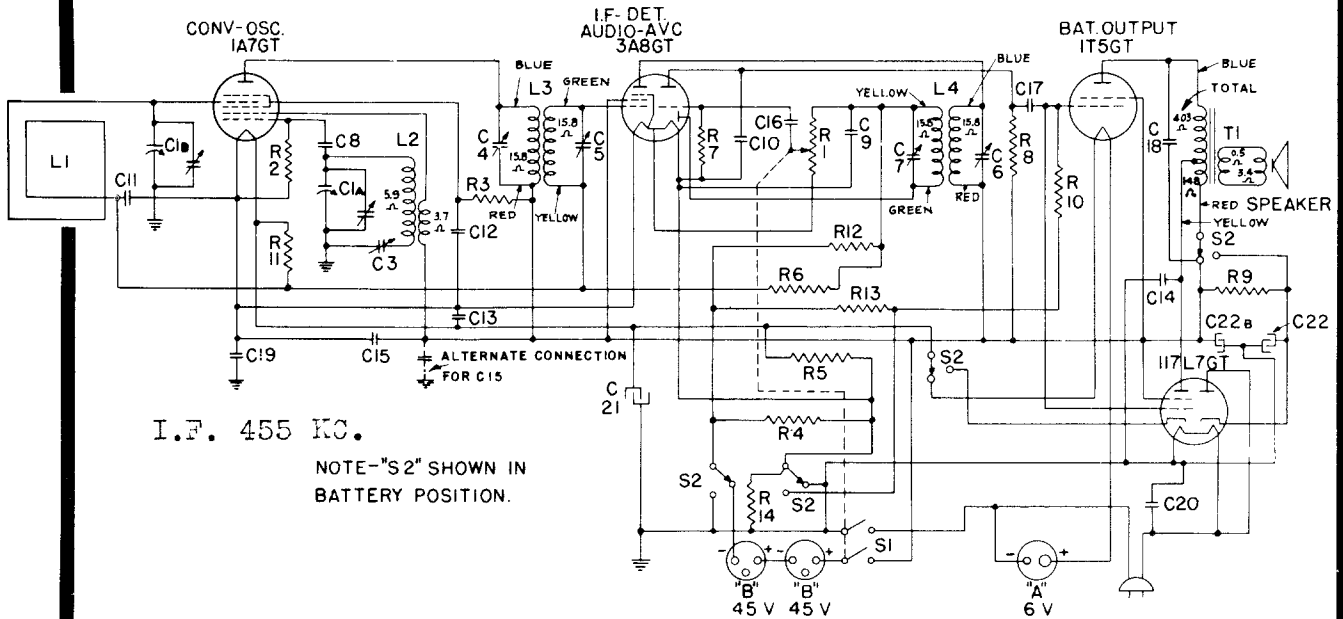
General Electric Models H-600, -601, -610, -611



MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

General Electric Model HB-412

Symbol	Description	Symbol	Description	Symbol	Description
C-1A	Oscillator section tuning condenser	C-19	0.2 mfd. paper capacitor	R-6	2.2 megohms carbon resistor
C-1B	Antenna section tuning condenser	C-20	.01 mfd. line capacitor	R-7	15 megohms carbon resistor
C-3	Oscillator padding capacitor	C-21	100 mfd. 5 V. dry electrolytic	R-8	1.0 megohm carbon resistor
C-8	47 mmf. mica capacitor	C-22A	40 mfd. 150 V. dry electrolytic	R-9	1800 ohms carbon resistor
C-9	220 mmf. mica capacitor	C-22B	20 mfd. 150 V. dry electrolytic	R-10	470,000 ohms carbon resistor
C-10	220 mmf. mica capacitor	L-1	Beam-a-Scope	R-11	3.9 megohms carbon resistor
C-11	.05 mfd. paper capacitor	L-2	Oscillator coil	R-12	680,000 ohms carbon resistor
C-12	0.1 mfd. paper capacitor	L-3	1st I.F. transformer	R-13	1.5 megohms carbon resistor
C-13	0.1 mfd. paper capacitor	L-4	2nd I.F. transformer	R-14	27 ohms carbon resistor
C-14	220 mmf. mica capacitor	R-1	1.0 megohm volume control	S-1	Power switch (on volume control)
C-15	0.1 mfd. paper capacitor	R-2	220,000 ohms carbon resistor	S-2	AC-DC or Battery switch
C-16	.002 mfd. paper capacitor	R-3	47,000 ohms carbon resistor	T-1	Output transformer
C-17	.01 mfd. paper capacitor	R-4	150 ohms carbon resistor		
C-18	.004 mfd. paper capacitor	R-5	560 ohms carbon resistor		



General Electric Model HM-21

Symbol	Description
C-1	300-850 mmf. tuning trimmer
C-2	100 mmf. mica capacitor
C-3	0.1 mfd. paper capacitor
C-4	.005 mfd. paper capacitor
C-5a	10 mfd. dry electrolytic
C-5b	10 mfd. dry electrolytic
C-6	.01-.01 mfd. line capacitor
L-1	Oscillator coil
M-1	Motor
R-1	120,000 ohms carbon resistor
R-2	1,200 ohms carbon resistor
R-3	47,000 ohms carbon resistor
R-4	47,000 ohms carbon resistor
R-5	1.0 megohms carbon resistor
R-6	6,800 ohms carbon resistor
S-1	Power switch
T-1	Power transformer

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

General Electric

Models H-634, H-638, and H-640

Tuning Frequency Range

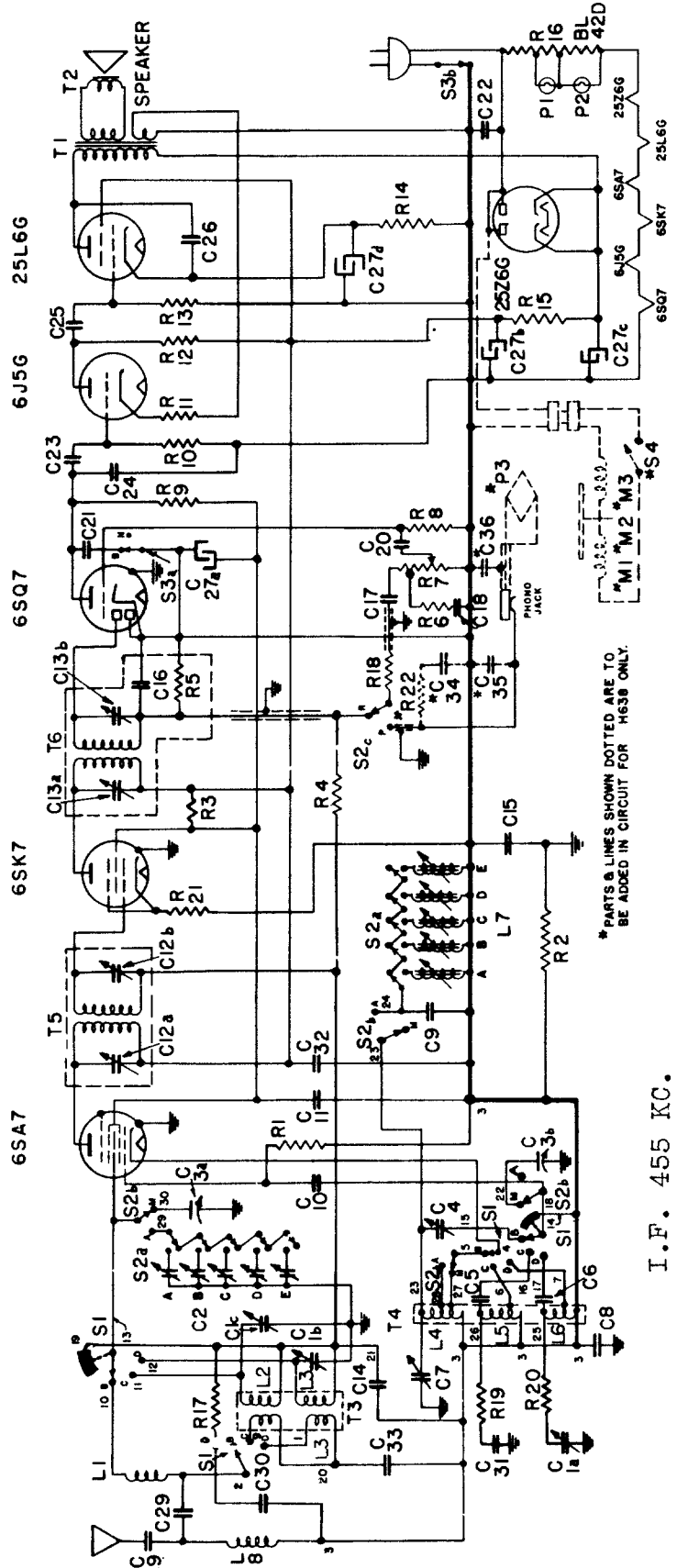
Band "B" 550-1600 K.C.
 Band "C" 2200-6500 K.C.
 Band "D" 6500-22000 K.C.

Intermediate Frequency 455 K.C.

SYMBOL	DESCRIPTION
M-1	60 cycle phono motor
M-2	50 cycle phono motor
M-3	25 cycle phono motor
R-1	270,000 ohms. carbon resistor
R-2	270,000 ohms. carbon resistor
R-3	270,000 ohms. carbon resistor
R-4	470,000 ohms. carbon resistor
R-5	470,000 ohms. carbon resistor
R-6	56,000 ohms. carbon resistor
R-7	2 megohm volume control
R-8	15 megohms. carbon resistor
R-9	220,000 ohms. carbon resistor
R-10	1 megohm. carbon resistor
R-11	330,000 ohms. carbon resistor
R-12	220,000 ohms. carbon resistor
R-13	470,000 ohms. carbon resistor
R-14	150 ohms. carbon resistor
R-15	560 ohms. carbon resistor
R-16	Ballast tube BL42D
R-17	47,000 ohms. carbon resistor
R-18	47,000 ohms. carbon resistor
R-19	150 ohms. carbon resistor
R-20	68 ohms. carbon resistor
R-21	390 ohms. carbon resistor
R-22	100,000 ohms. carbon resistor
P-1, 2	Dial lamp. Mazda No. 44.

SYMBOL	DESCRIPTION
C-22	.05 mfd. 250 V. A. C. moulded capacitor
C-23	1005 mfd. paper capacitor
C-24	1000 mfd. mica capacitor
C-25	.02 mfd. mica capacitor
C-26	.01 mfd. paper capacitor
C-27a	50 mfd. 150 V. dry electrolytic
C-27b	50 mfd. 150 V. dry electrolytic
C-27c	50 mfd. 25 V. dry electrolytic
C-27d	.1 mfd. paper capacitor
C-29	.01 mfd. mica capacitor
C-30	.05 mfd. mica capacitor
C-31	.05 mfd. paper capacitor
C-32	.01 mfd. paper capacitor
C-33	.01 mfd. paper capacitor
C-34	.002 mfd. paper capacitor
C-35	.01 mfd. paper capacitor
C-36	Loop antenna
L-1	"C" band antenna coil
L-2	"D" band antenna coil
L-3	100 mfd. paper capacitor
L-4	.005 mfd. paper capacitor
L-5	.0072 mfd. paper capacitor
L-6	.005 mfd. paper capacitor
L-7	.01 mfd. paper capacitor
L-8	.0015 mfd. paper capacitor

SYMBOL	DESCRIPTION
"D"	band oscillator trimmer
"L"	band antenna trimmer
"C"	band antenna trimmer
7-65	mfd. station trimmer
20-180	mfd. station trimmer
100-490	mfd. station trimmer
100-490	mfd. station trimmer
Tuning	condenser
"B"	band oscillator padder
2000	mfd. mica capacitor ± 5%
5600	mfd. mica capacitor ± 5%
"B"	band oscillator trimmer
.01	mfd. paper capacitor
750	mfd. silvered mica capacitor ± 5%
47	mfd. mica capacitor
10	mfd. paper capacitor
11	mfd. paper capacitor
14	mfd. paper capacitor
100	mfd. paper capacitor
100	mfd. paper capacitor
100	mfd. paper capacitor
.0072	mfd. paper capacitor
.005	mfd. paper capacitor
.01	mfd. paper capacitor
.0015	mfd. paper capacitor



* PARTS & LINES SHOWN DOTTED ARE TO BE ADDED IN CIRCUIT FOR H-638 ONLY.

I.F. 455 KC.

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

General Electric Model HJ-612

I.F. Alignment

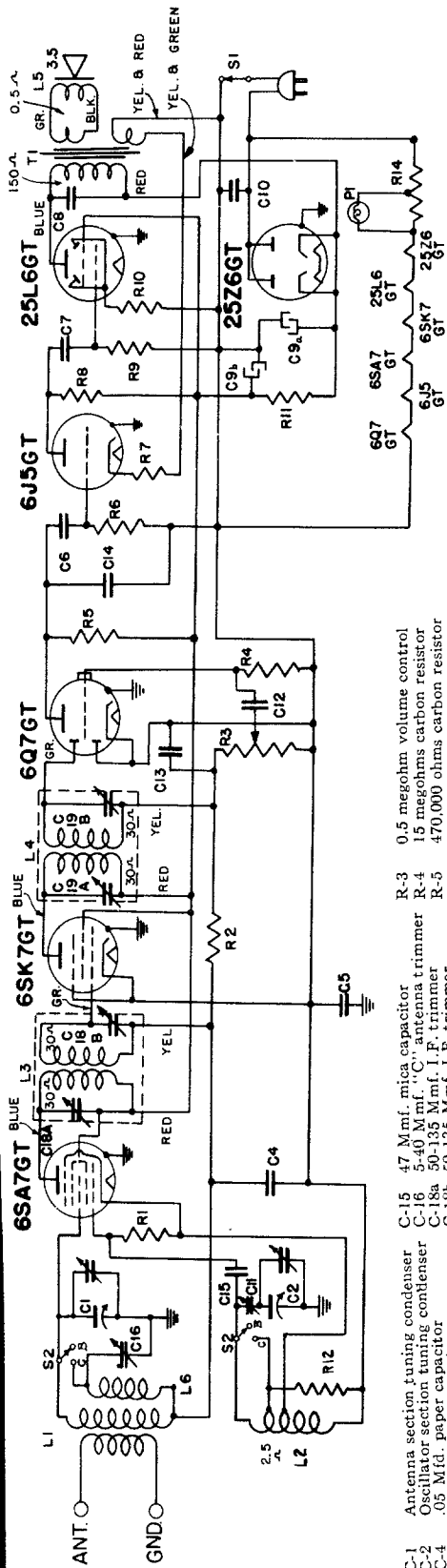
Connect an output meter across the voice coil. Rotate the volume control to maximum. Completely close the gang condenser plates and set the dial pointer to the first dial mark at the low end of the scale. Throw the band switch to 'BC' (up).

Set test oscillator to 455 KC and apply signal to the control grid of the 6SA7 tube through a .05 mfd. capacitor. Do not remove the 6SA7 grid lead. Keep the test oscillator output as low as a readable meter reading will permit. Adjust all I.F. trimmers for maximum meter reading.

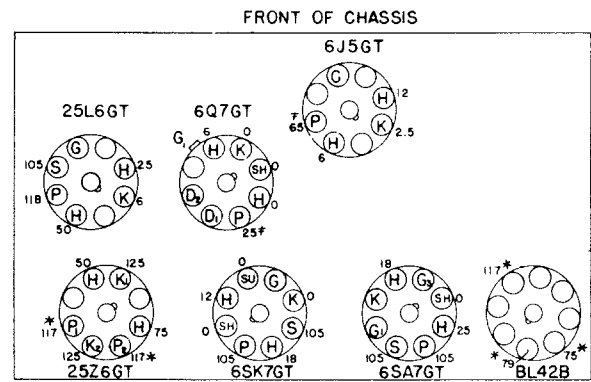
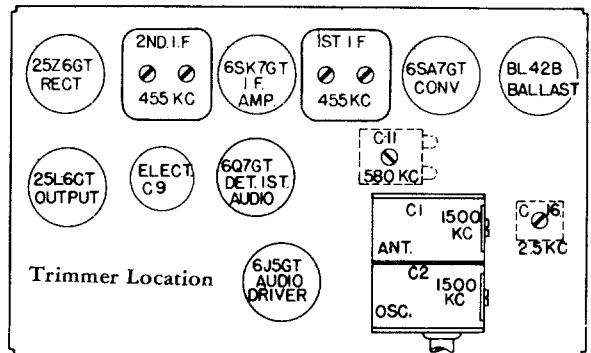
R.F. Alignment

Apply a 1500 KC signal either through a standard I.R.E. dummy to the antenna terminal or through an additional loop connected to the signal generator output which can be magnetically coupled to the receiver Beam-a-Scope. When using an I.R.E. dummy antenna for R.F. alignment do not connect a ground lead between the signal generator and the receiver. Align (C-2) at 1500 KC and peak (C-1) for maximum output. Change signal to 580 KC and tune receiver to signal. Peak (C-11) on the 580 KC signal by rocking the gang condenser. Retrim at 1500 KC.

Throw the band switch to 'SW' band. Peak (C-16) on 2500 KC.



- C-1 Antenna section tuning condenser
- C-2 Oscillator section tuning condenser
- C-3 .05 Mmf. mica capacitor
- C-4 .05 Mmf. mica capacitor
- C-5 .05 Mmf. mica capacitor
- C-6 .05 Mmf. mica capacitor
- C-7 .05 Mmf. mica capacitor
- C-8 .05 Mmf. mica capacitor
- C-9 .05 Mmf. mica capacitor
- C-10 .05 Mmf. mica capacitor
- C-11 .05 Mmf. mica capacitor
- C-12 .05 Mmf. mica capacitor
- C-13 .05 Mmf. mica capacitor
- C-14 .05 Mmf. mica capacitor
- C-15 47 Mmf. mica capacitor
- C-16 50-135 Mmf. I.F. trimmer
- C-17a 50-135 Mmf. I.F. trimmer
- C-17b 50-135 Mmf. I.F. trimmer
- C-18a 50-135 Mmf. I.F. trimmer
- C-18b 50-135 Mmf. I.F. trimmer
- C-19a 50-135 Mmf. I.F. trimmer
- C-19b 50-135 Mmf. I.F. trimmer
- C-20 Beam-a-Scope
- C-21 Oscillator coil
- C-22 181 L.F. transformer
- C-23 2nd L.F. transformer
- C-24 C. band antenna coil
- C-25 Dia lamp. Maxdpa No. 44
- C-26 33,000 ohms carbon resistor
- C-27 2.2 megohms carbon resistor
- R-1 2.2 megohms carbon resistor
- R-2 2.2 megohms carbon resistor
- R-3 47 Mmf. mica capacitor
- R-4 15 megohms carbon resistor
- R-5 470,000 ohms carbon resistor
- R-6 1.0 megohms carbon resistor
- R-7 3300 ohms carbon resistor
- R-8 39,000 ohms carbon resistor
- R-9 470,000 ohms carbon resistor
- R-10 150 ohms carbon resistor
- R-11 1000 ohms. 1 W. carbon resistor
- R-12 4700 ohms carbon resistor
- R-13 Ballast resistor BL-42-B
- T-1 Output transformer



VOLTAGES MEASURED BETWEEN SOCKET TERMINALS AND MINUS B
 * MEASURED ON 250 VOLT SCALE OF 1000 OHMS PER VOLT METER
 * VOLTS AC.
 LINE VOLTS - 117 AC GANG CLOSED MAX VOLUME

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

SUPER DEFIANT MODEL SX25

RESISTORS

NO.	OHMS	WATTAGE	NO.	OHMS	WATTAGE
R1	100,000	1/3	23	3,000	1/3
2	400	"	24	50,000	"
3	100,000	"	25	250,000	"
4	10,000	R. F. Gain	26	100,000	"
5	500	S Meter	27	250,000	"
6	100	1/3	28	2,000,000	"
7	3,000	"	29	1,000,000	"
8	100,000	"	30	500,000	A.F. Gain
9	400	"	31	250,000	1/3
10	500	"	32	250,000	"
11	3,000	"	33	250,000	"
12	100,000	"	34	250,000	"
13	400	"	35	200,000	"
14	50,000	"	36	250	1
15	30,000	1	37	20,000	1
16	15,000	1	38	15,000	1
17	4,000	1	39	15,000	1
18	100,000	1/3	40	150	1/3
19	500,000	"	41	50,000	"
20	800	"	42	20,000	1
21	3,000	"	43	8	1/3
22	1,000	"			

CONDENSERS

NO.	CAPACITY	VOLTAGE	TYPE	NO.	CAPACITY	VOLTAGE	TYPE
C1	Main Tuning Gang			29	100 mmfd		Mica
2	2 PL.Bd.Spr.Sec.			30	3 mmfd		Twisted Pair
3	5 " " " "			31	.02 mfd	400	Paper
4	.01 mfd	200	Paper	32	.02 mfd	400	Paper
5	.05 mfd	200		33	.05 mfd	200	Paper
6	.05 mfd	200	Paper	34	.002 mfd	1,600	Tubular Oil
7	.02 mfd	400	Paper	35	250 mfd		Mica
8	.05 mfd	200	Paper	36	.05 mfd	400	Paper
9	35 mmfd		Ceramicon	37	10 mfd	25	Electrolytic
10	.05 mfd	200	Paper	38	.05 mfd	400	Paper
11	.02 mfd	400	Paper	39	10 mfd	25	Electrolytic
12	.05 mfd	200	Paper	40	.002 mfd	1,600	Tubular Oil
13	5 mmfd		Ceramicon	41	.1 mfd	400	Paper
14	35 mmfd		Ceramicon	42	10 mfd	350	Electrolytic
15	.05 mfd	200		43	30 mfd	350	Electrolytic
16	.05 mfd	400	Paper	44	.01 mfd	600	Paper
17	.02 mfd	400	Paper	45	100 mmfd		Mica
18	4.5 mmfd		Compensating	46	500 mmfd		Mica
19	10 mfd	350	Electrolytic	47	.02 mfd	400	Paper
20	.05 mfd	200	Paper	48	105 mmfd		Ceramicon
21	25 mmfd		Phasing	49	.002 mfd.		Mica
22	1.5 to 18 mmfd "TXS"		Trimmer	50	105 mmfd		Ceramicon
23	1.5 to 18 mmfd		Trimmer	51	2300 mmfd		Dual Pad
24	.05 mfd	200	Paper	52	1400 mmfd		Single Pad
25	.02 mfd	400	Paper	53	450 mmfd		Dual Pad
26	.05 mfd	200	Paper	54	.1 mfd	200	Paper
27	.02 mfd	400	Paper	55	700 mmfd		Mica
28	50 mmfd		Mica				

SWITCHES

SW1 - AC ON-OFF on A.F. Gain Control

SW2 - Stand-by SPST

SW3 - B.F.G. ON-OFF SPST

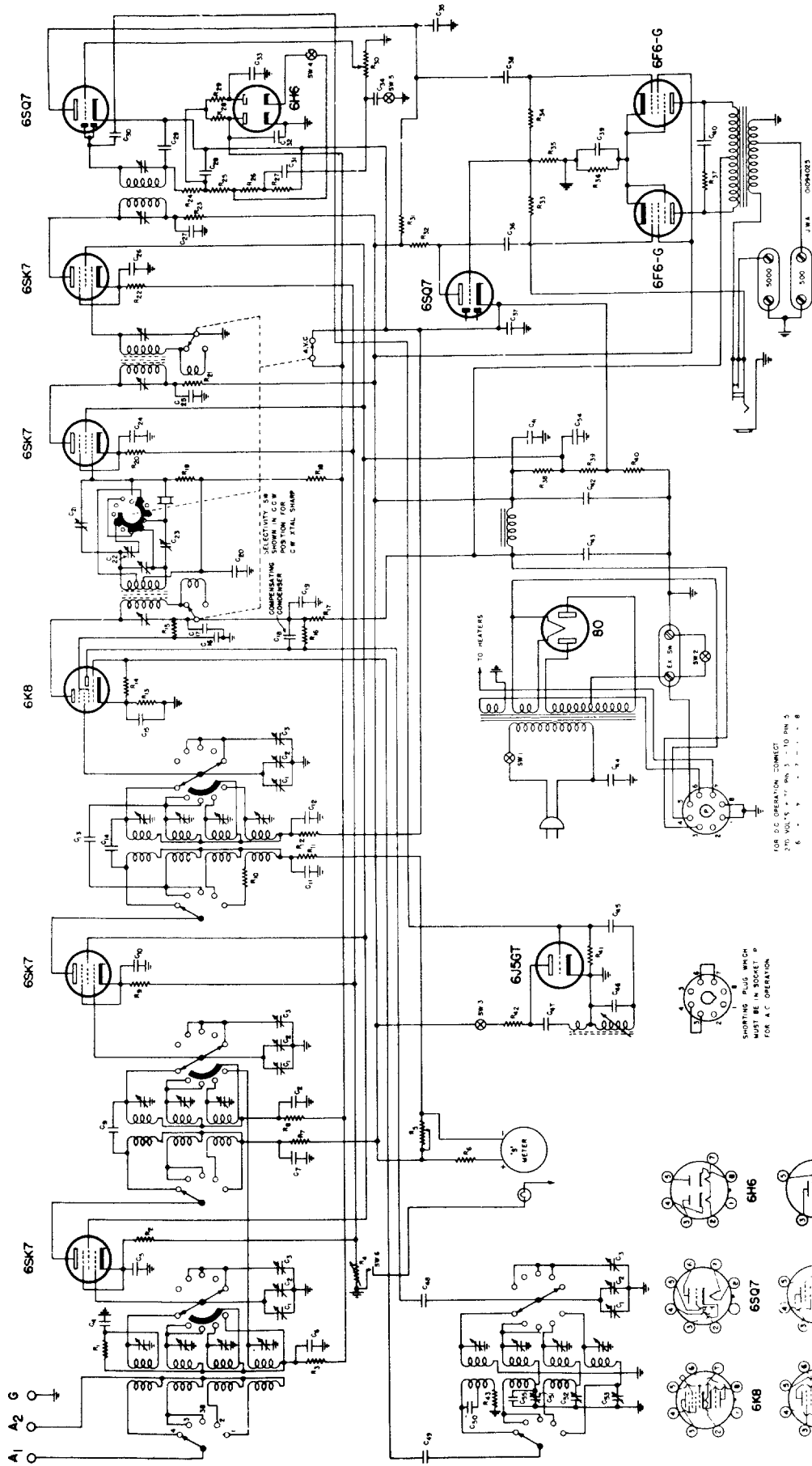
SW4 - A.N.L. ON-OFF SPST

SW5 - High-Low Tone SPST

SW6 - "S" Meter on R.F. Gain Control.

44

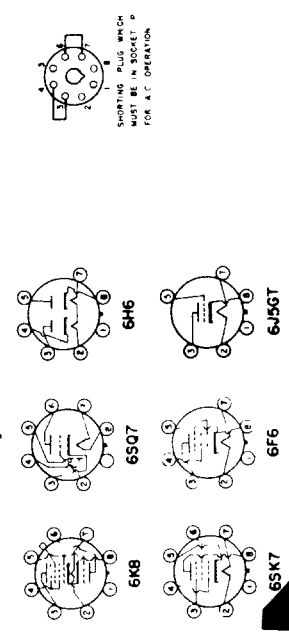
COMPILED BY M. N. BEITMAN, SUPREME PUBLICATIONS



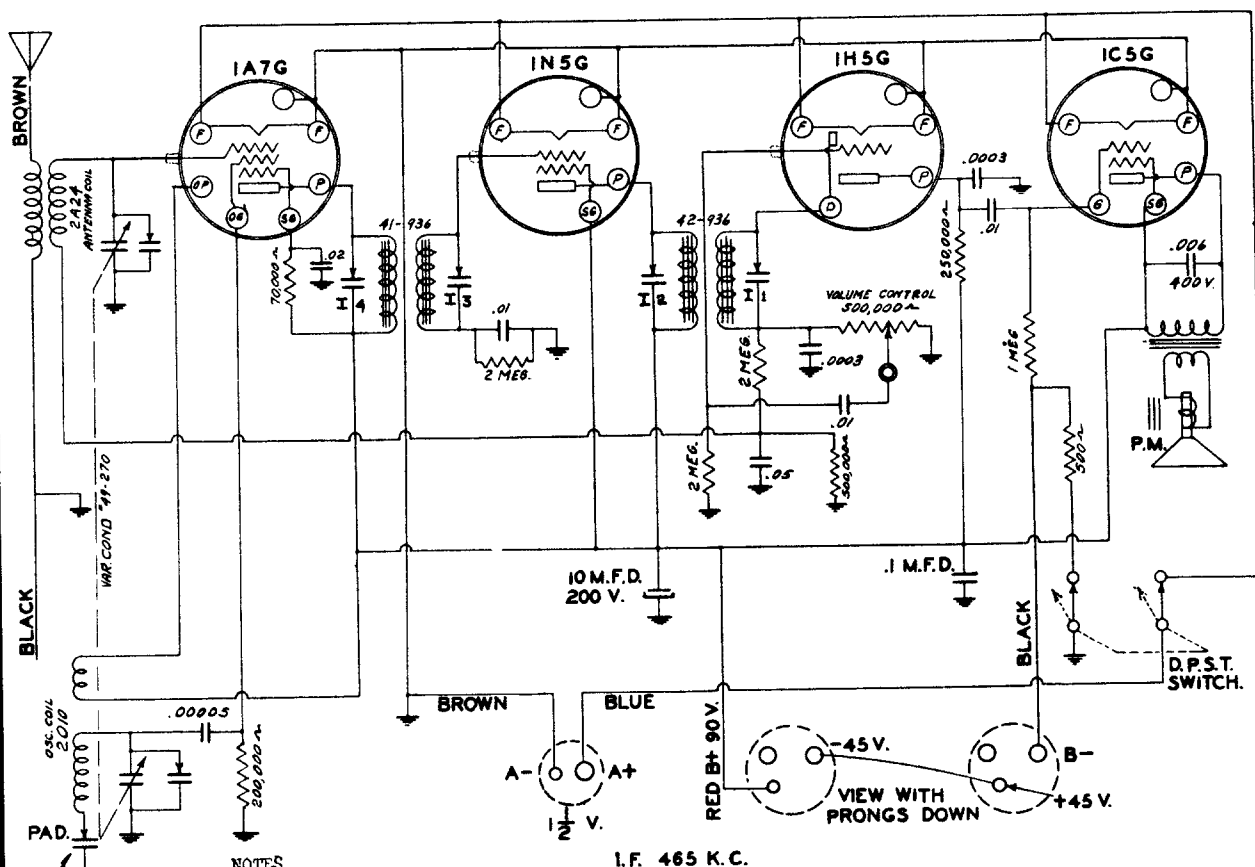
the hallicrafters inc
SCHEMATIC DIAGRAM — SUPER AFFIANT MODEL SX-25

USE D.C. OPERATOR — CONNECT
270 VOLTS, 5-7 PINS 3 — TO PIN 5
6 2 1

SHORTING PLUG WHICH
MUST BE IN SOCKET P
FOR A.C. OPERATION



MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



NOTES

When adjusting this pad, move the tuning hand back and forth and adjust padder until the peak of greatest intensity is obtained.

I.F. 465 K.C.



HOWARD RADIO CO.
MODEL 12-B

SERVICE NOTES

It is necessary that the 1N5G tube be shielded. See that the shield is firmly in place around the bottom portion of the tube.

The intermediate frequency of this receiver is 465 KC.

The trimmers and padding condenser adjustments are accessible through bottom of cabinet.

Color code of battery leads:- Red B+90; Black B-; Brown A-; Blue A + 1 1/2 V.

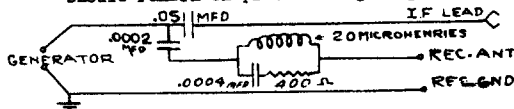
RECOMMEND BATTERY KITS

	EVEREADY	BURGESS	
1 1/2 V. "A" 1 Required	740	20-F	For greater economy use two "A" cells in PARALLEL. Connect plus to plus and minus to minus.
45 V. "B" 2 Required	749	D60	
Combination "A" and "B" Single Unit.	748	17GD60	Use Adapter

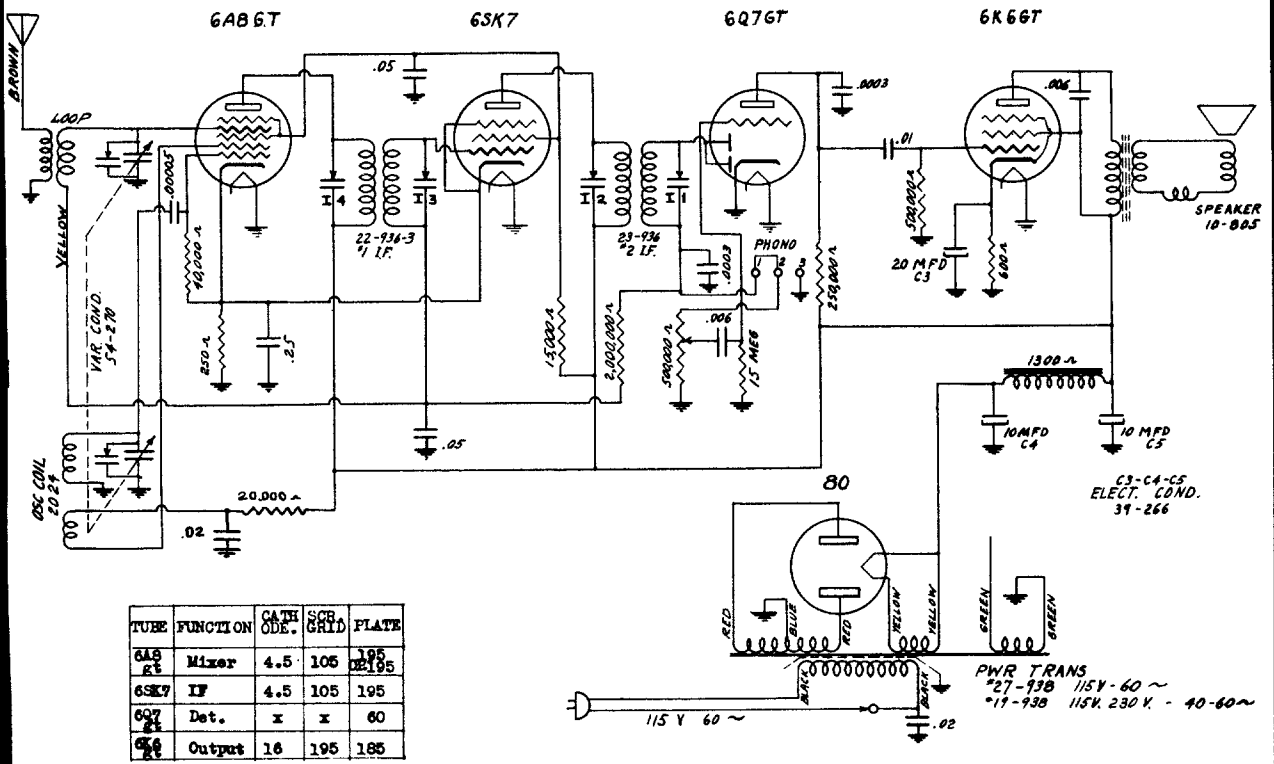
Each step of the alignment should be repeated in the original order for greater accuracy. Keep output from Signal Generator low. The I.F. trimmers are reached through the two holes on the top of each I.F. can.

See that the tuning hand is set exactly on the last line above 540 when the condenser is at maximum capacity.

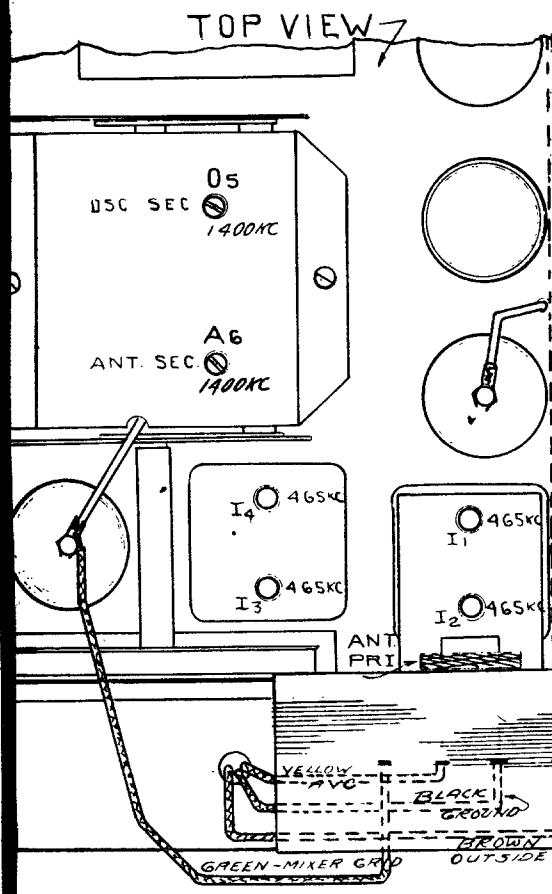
The following dummy antenna circuit is recommended, since it is adaptable for any frequency range. The grid cap should remain in place during alignment.



MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



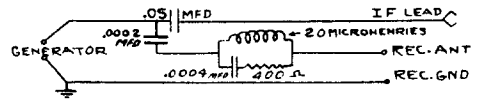
Howard Radio Model 300



ALIGNMENT PROCEDURE

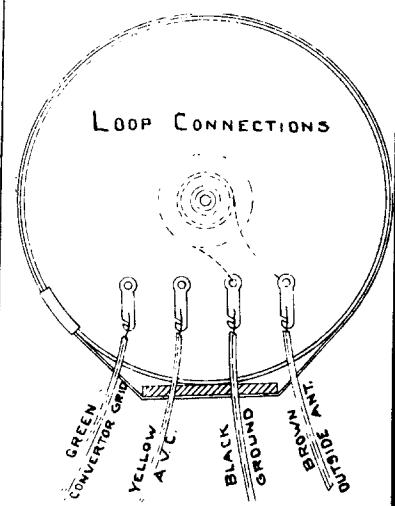
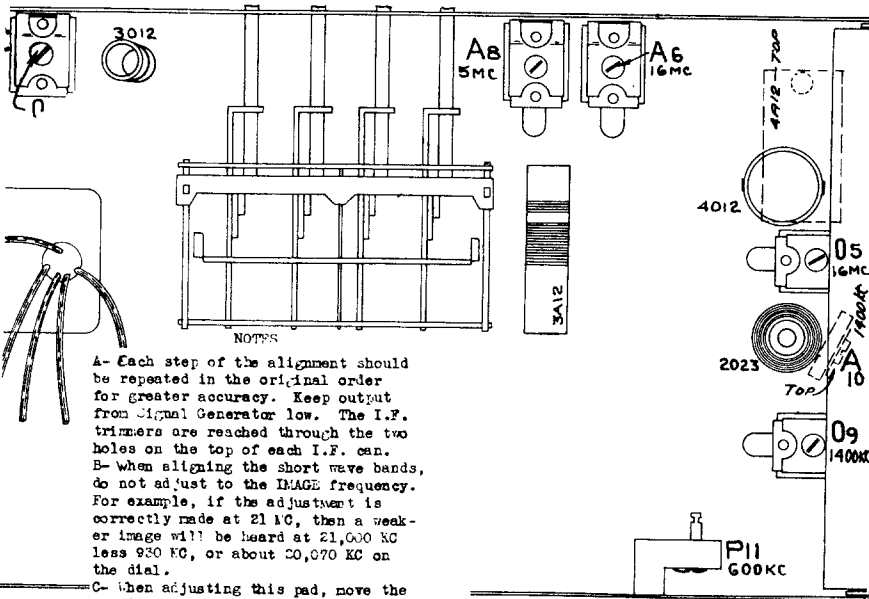
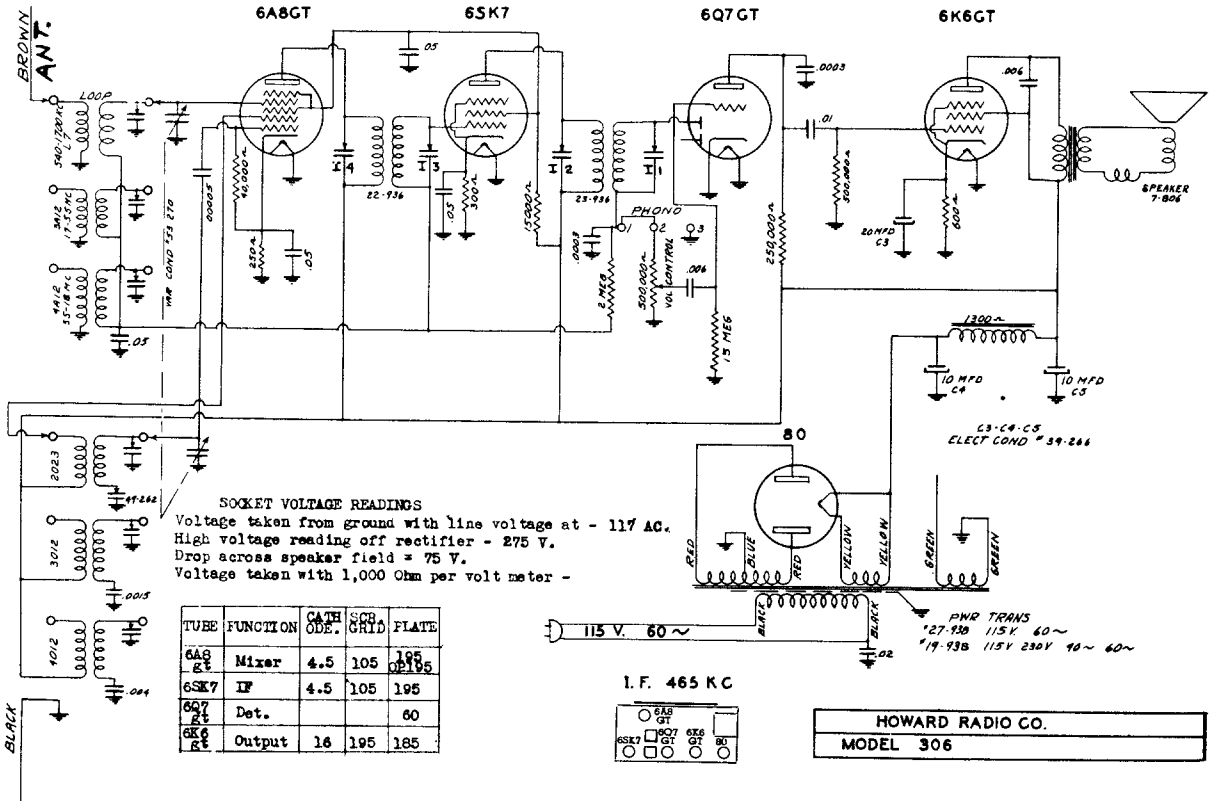
Wave-Band Switch Position	Position of Dial Pointer	Generator Frequency	Generator Connection	See Note	Trimmers Adjusted (In order shown)	Trimmer Function
x	Min. Cap.	465 KC	6AS Grid	A, E	I ₁ I ₂ I ₃ I ₄	IF
x	1400 KC	1400 KC	Brown lead	D	C ₅ A ₆	Osc. & Ant.
x	600 KC	600 KC	Brown lead		OUT PLATE	OSC. SECTION

A- Each step of the alignment should be repeated in the original order for greater accuracy. Keep output from signal generator low. The I.F. trimmers are reached through the two holes on the top of each I.F. can.
 B- When aligning the short wave bands, do not adjust to the image frequency. For example, if the adjustment is correctly made at 21 MC, then a weaker image will be heard at 21,000 KC less 930 KC, or about 20,070 KC on the dial.
 C- When adjusting this pad, move the tuning hand back and forth and adjust padder until the peak of greatest intensity is obtained.
 D- See that the tuning hand is set exactly on the last line above 540 when the condenser is at maximum capacity.
 E- The following dummy antenna circuit is recommended, since it is adaptable for any frequency range. The grid cap should remain in place during alignment.



SOCKET VOLTAGE READINGS
 Voltage taken from ground with line voltage at - 117 AC.
 High voltage reading off rectifier = 275 V.
 Drop across speaker field = 75 V.
 Voltage taken with 1,000 Ohm per volt meter -

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



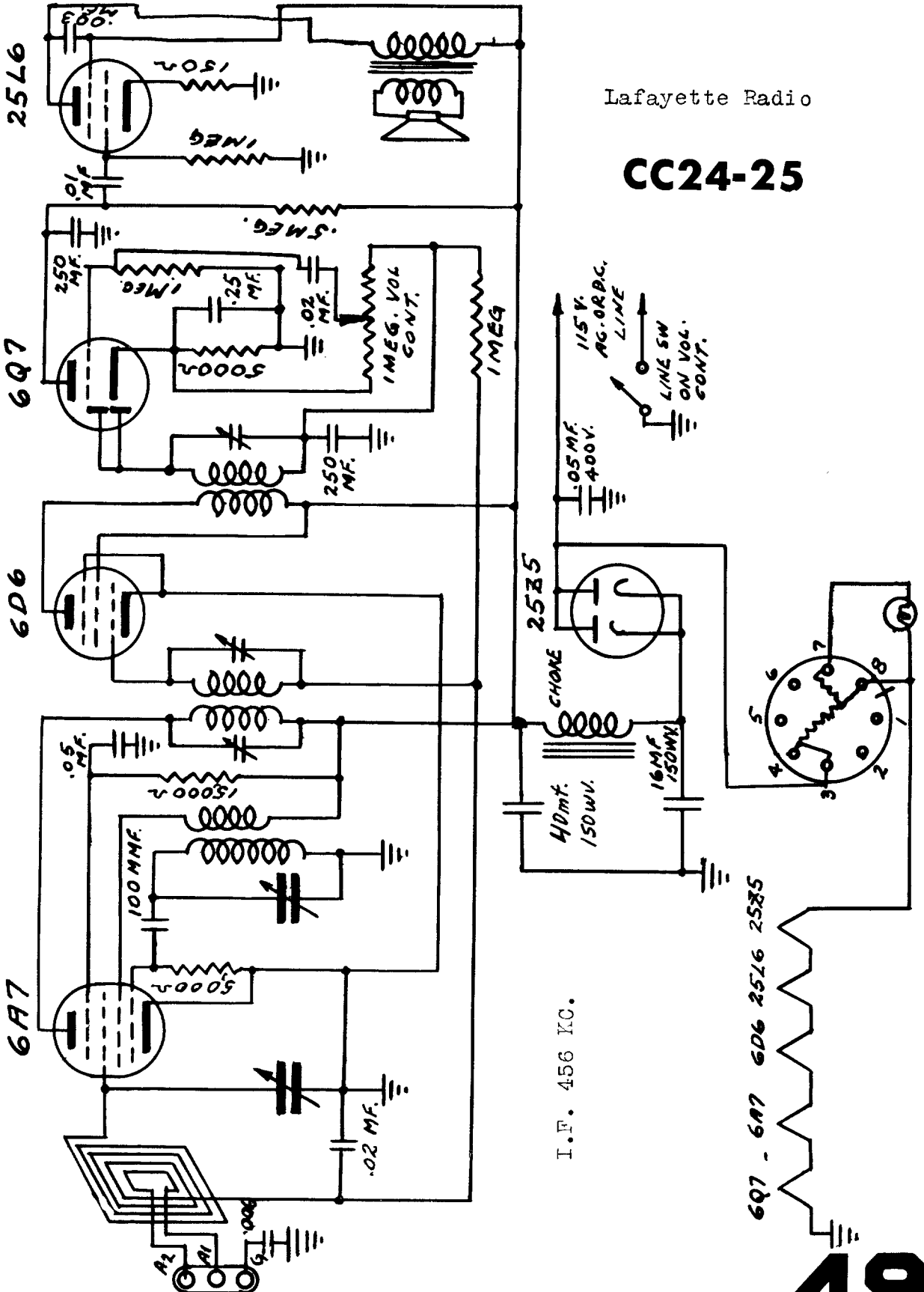
ALIGNMENT PROCEDURE

Wave-Band Switch Position	Position of Dial Pointer	Generator Frequency	Generator Connection	See Note	Trimmers Adjusted (In order shown)	Trimmer Function
BC	Min. Cap.	465 KC	6A8 Grid	A, E	I ₁ I ₂ I ₃ I ₄	IF
SW	16 MC	16 MC	Brown lead	B, D	O ₅ A ₈	Osc. Ant.
PB	5 MC	5 MC	Brown lead		O ₇ A ₉	Osc. Ant.
BC	1400 KC	1400 KC	Brown lead		O ₉ A ₁₀	Osc. Ant.
BC	600 KC	600 KC	Brown lead	C	P ₁₁	Osc. Pad.

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

Lafayette Radio

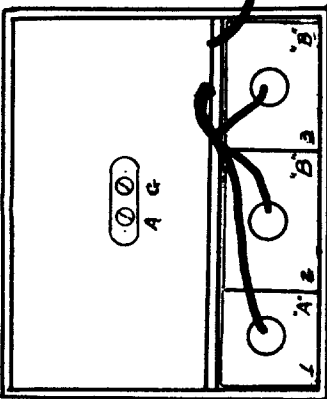
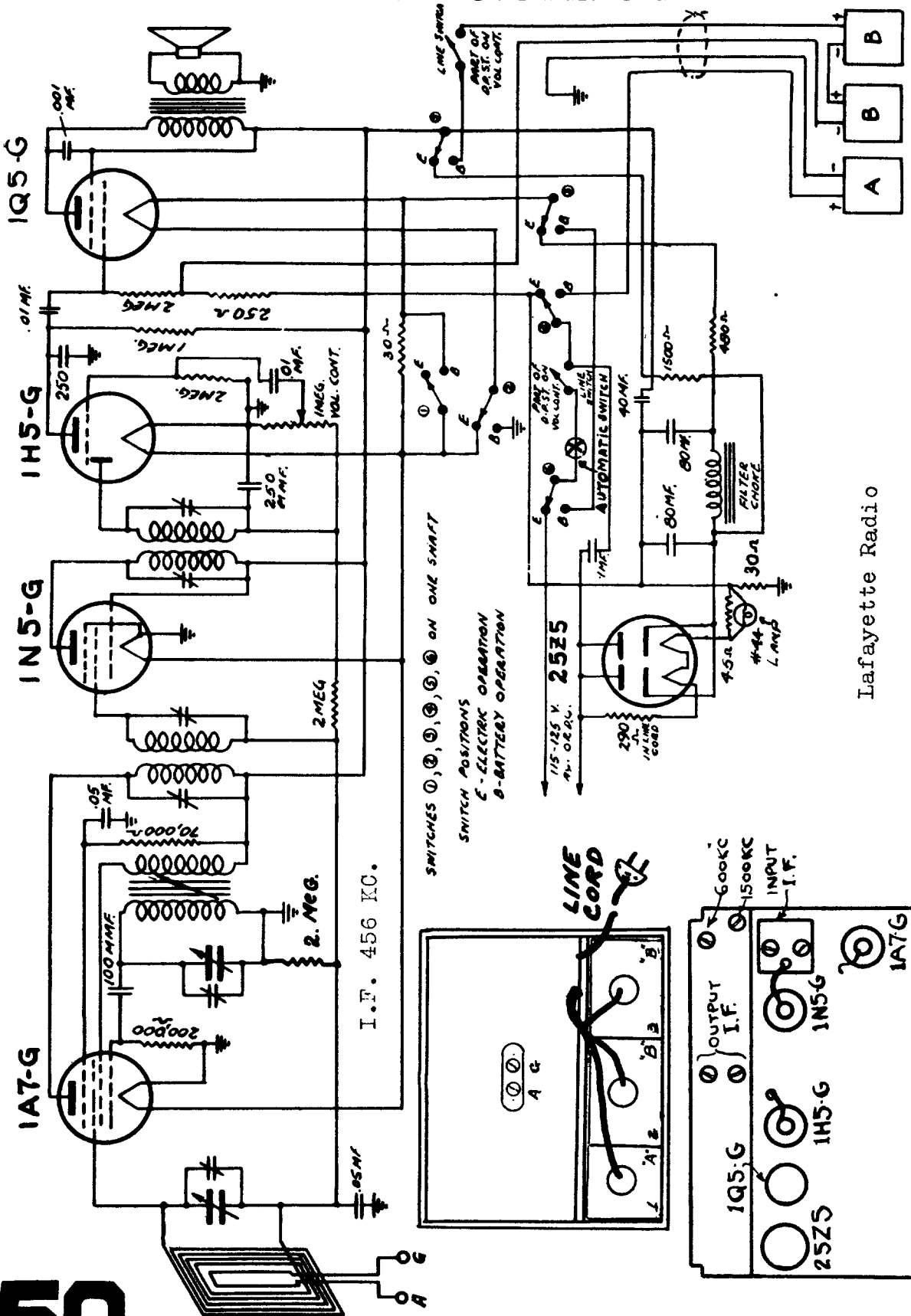
CC24-25



I.F. 456 KC.

6Q7 - 6A7 6D6 25L6 25Z5

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

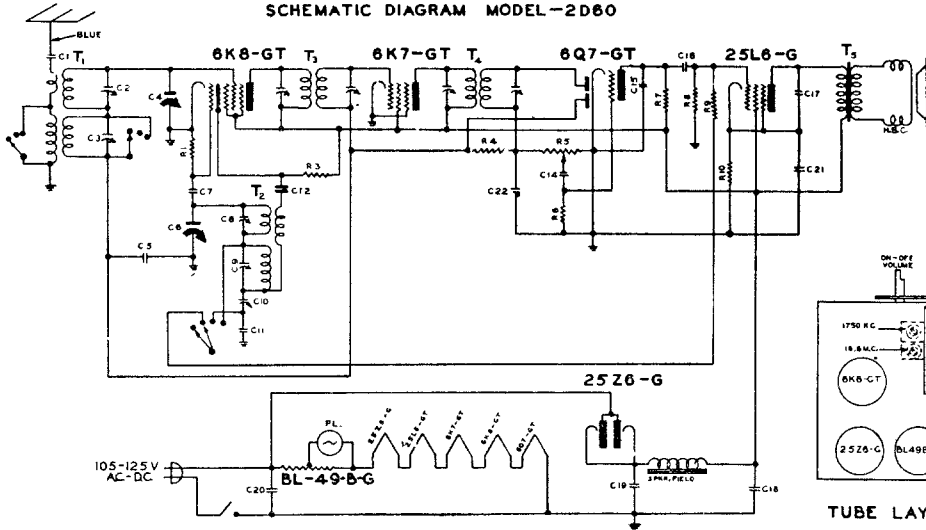


Lafayette Radio

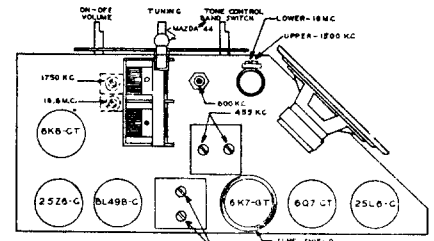
CC-55 A

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

SCHMATIC DIAGRAM MODEL-2D60



Majestic Radio



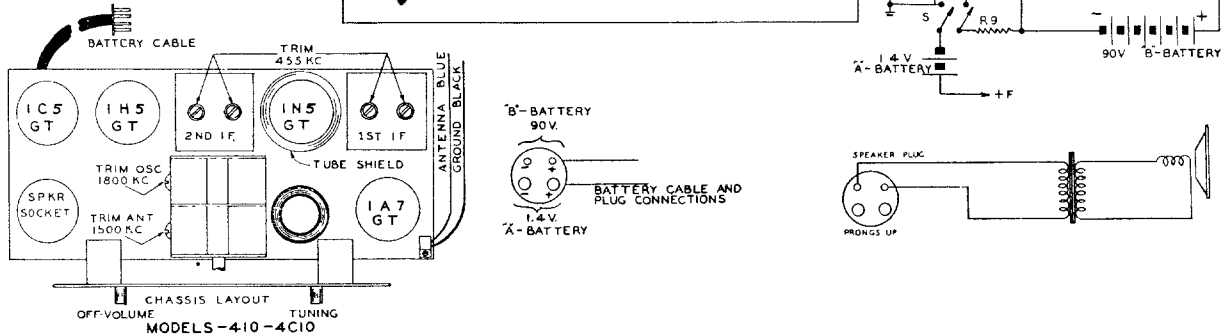
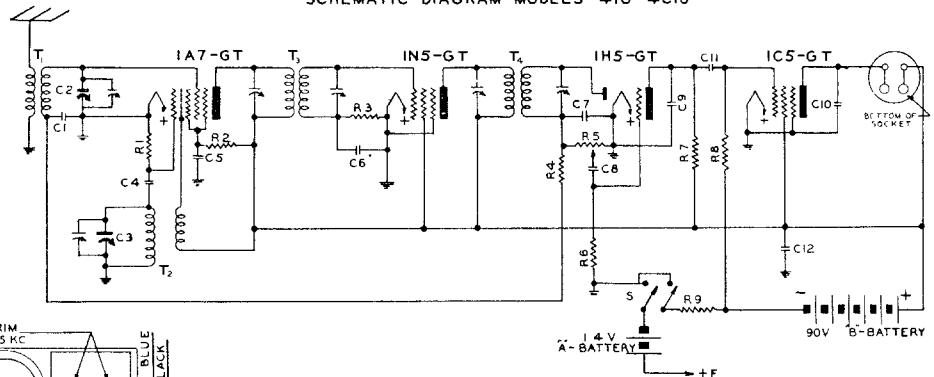
TUBE LAYOUT MODEL-2D60

Schematic Location	Part No.	Description
C1,C12,C16,C17	C-15754	Tubular cond. .01 mfd. 400V
C4,C6	Y-CV-16A	Variable Condenser
C5	C-15752	Tubular cond. .05 mfd. 200V
C7	CM-31	Mica cond. 100 mmfd. 30%
C10	Y-CP-8	Padder Condenser
C11	CM-2	Mica cond. 4330 mmfd. 5%
C14	C-31	Tubular cond. .004 mfd. 400V
C15,C22	CM-30	Mica cond. 250 mmfd. 30%
C18,C19,C21	CE-46	Electrolytic Condenser
C20	C-15756	Tubular cond. .05 mfd. 400V
P.L.	LB-44	Mazda Bulb #44

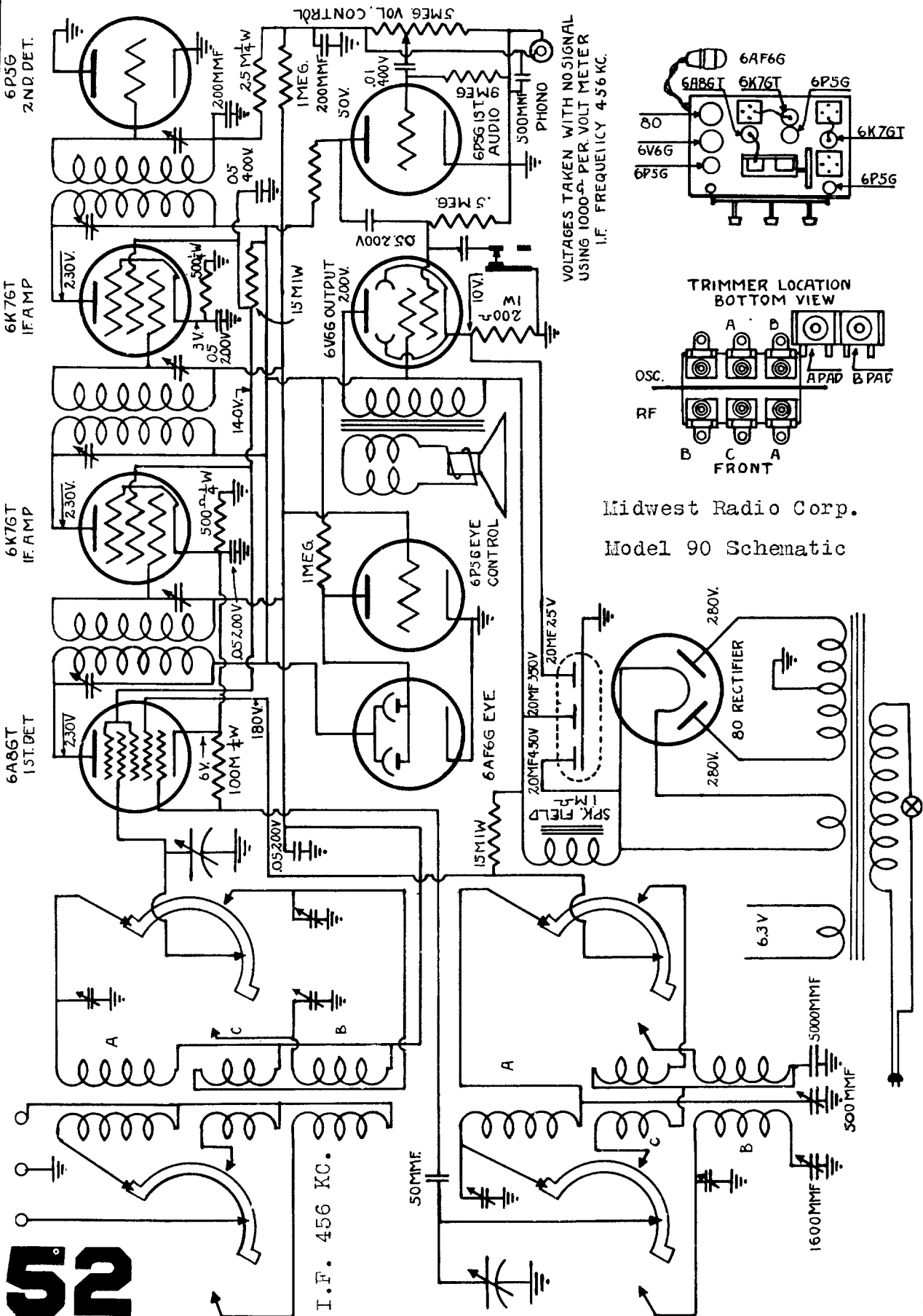
Schematic Location	Part No.	Description
T1	Y-ANA-10	Antenna Assembly
T2	Y-OSA-10	Oscillator Assembly
T3	Y-IFA-10	1st I. F. Transformer
T4	Y-IFA-11	2nd I. F. Transformer
R1	R-15511	Carbon res. 50K ohm 1/4 W20%
R3	R-15531	Carbon res. 10K ohm 1/4 W20%
R4	R-15500	Carbon resistor 2meg 1/4 W20%
R5	Y-VC-21	Volume Control and Switch
RE,R8	R-50	Carbon resistor 5meg 1/4 W20%
R7	R-15504	Carbon res. 150K ohm 1/4 W20%
R9	R-15500	Carbon res. 20K ohm 1/4 W20%
R10	R-80	Carbon res. 110 ohm 1/4 W20%

Majestic Radio

SCHMATIC DIAGRAM MODELS-410-4C10



Schematic Location	Part No.	Description	Schematic Location	Part No.	Description
C2,C3	Y-CV-26	Variable Condenser	R1	R-15523	Carbon res. 200K ohm 1/4 W20%
C1,C5	C-15752	Tubular cond. .05 mfd. 200V	R2	R-44	Carbon res. 70K ohm 1/4 W10%
C6,C8,C11	C-15763	Tubular cond. .01 mfd. 200V	R3,R4	R-15500	Carbon resistor 2meg 1/4 W20%
C10	C-15774	Tubular cond. .002 mfd. 400V	R6	R-15559	Carbon resistor 3meg 1/4 W20%
C12	CE-35	8 mfd. 150V Electrolytic cond.	R7	R-15520	Carbon res. 500K ohm 1/4 W20%
C4,C7,C9	CM-31	Mica cond. 100 mmfd. 30%	R8	R-15517	Carbon resistor 1meg 1/4 W20%
T1	Y-CS 62	Antenna Coil	R9	R-72	Carbon res. 600 ohm 1/4 W20%
T2	Y-OSA-11	Oscillator Assembly	R5	Y-VC-43	Volume Control
T3	Y-CI-29	1st I. F. Assembly			
T4	Y-CI-30	2nd I. F. Assembly			

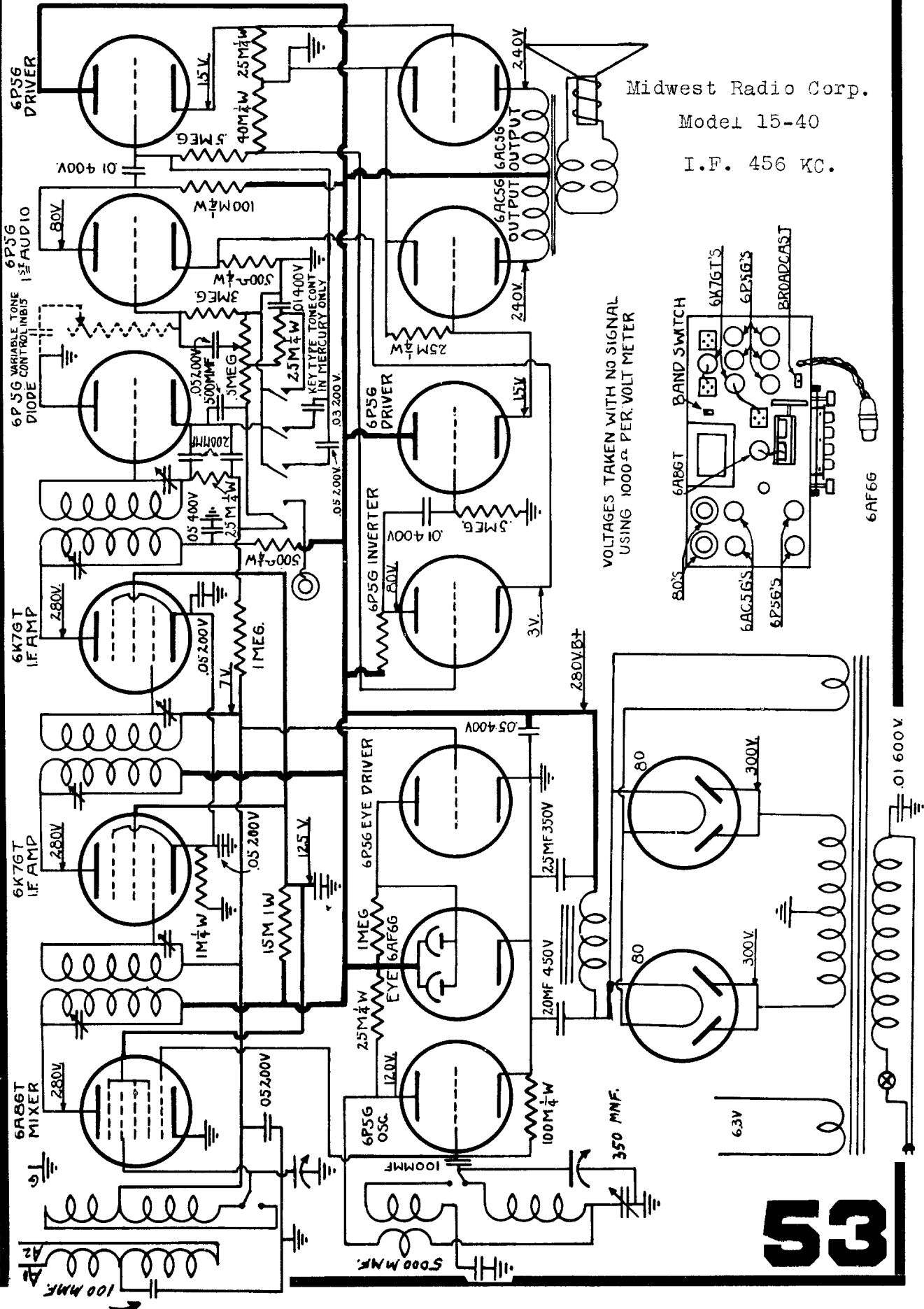


Midwest Radio Corp.

Model 15-40

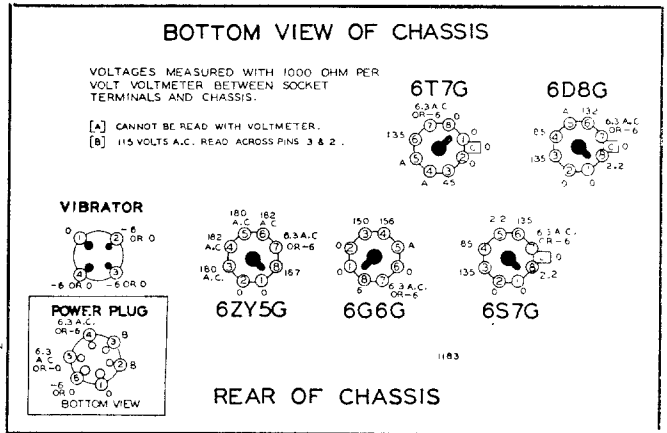
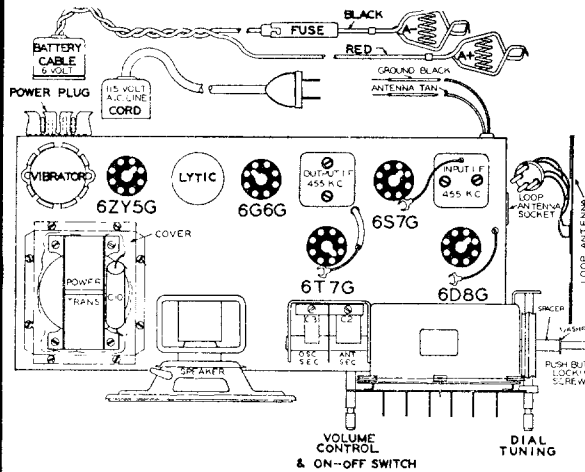
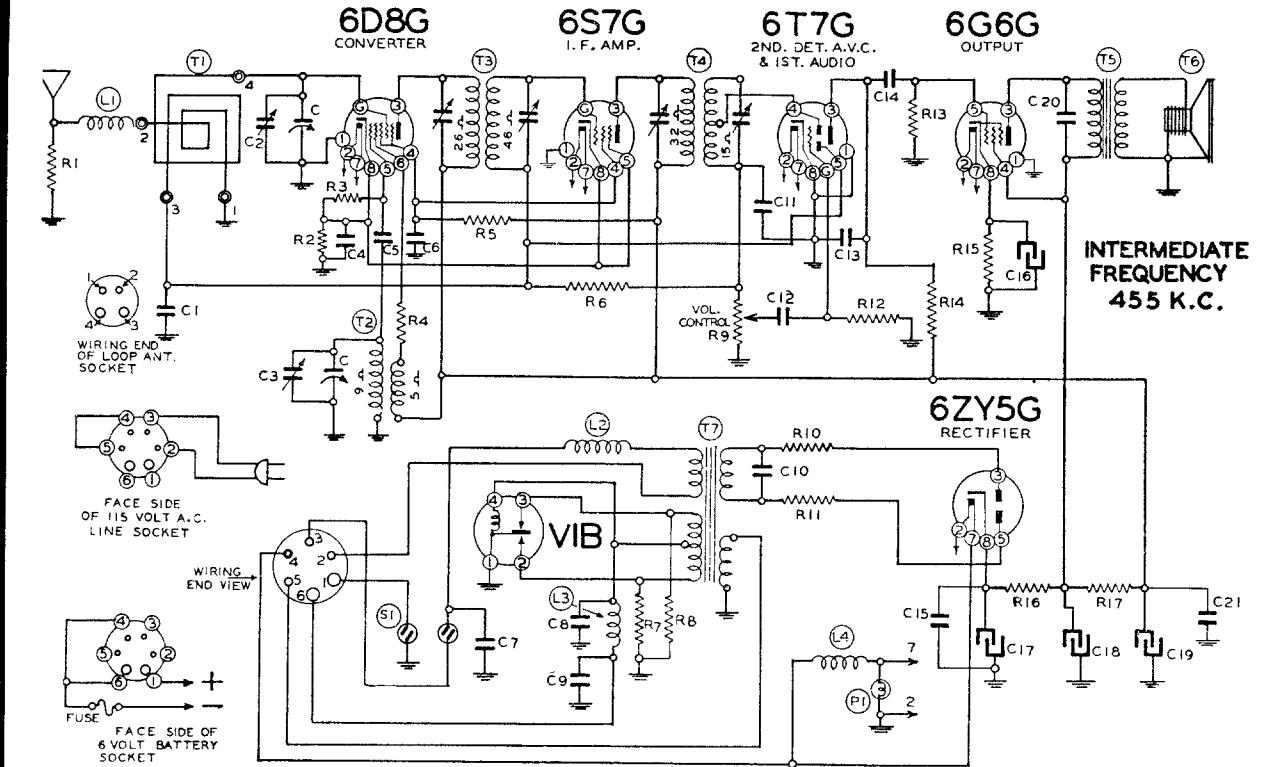
I.F. 456 KC.

VOLTAGES TAKEN WITH NO SIGNAL
USING 1000-Ω PER-VOLT METER



53

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



MONTGOMERY WARD

RESISTORS

R1	BE13022	5M ohm— $\frac{1}{2}$ watt
R2	BE130166	150 ohm— $\frac{1}{2}$ watt
R3	BE13012	50M ohm— $\frac{1}{2}$ watt
R4	BE13026	1000 ohm— $\frac{1}{2}$ watt
R5	BE130157	12M ohm— $\frac{1}{2}$ watt
R6	BE1304	3 megohm— $\frac{1}{2}$ watt
R7	BE130168	100 ohm— $\frac{1}{2}$ watt
R8	BE130168	100 ohm— $\frac{1}{2}$ watt
R9	BE101225	1 megohm volume control
R10	BE130333	60 ohm— $\frac{1}{2}$ watt
R11	BE130233	60 ohm— $\frac{1}{2}$ watt
R12	BE130223	10 megohm— $\frac{1}{2}$ watt
R13	BE13037	750M ohm— $\frac{1}{2}$ watt
R14	BE13011	250M ohm— $\frac{1}{2}$ watt
R15	BE13079	400 ohm— $\frac{1}{2}$ watt
R16	BE130222	350 ohm— $\frac{1}{2}$ watt
R17	BE130235	1500 ohm— $\frac{1}{2}$ watt

MODEL 04BR-570A

PARTS

T1	BE111187	Loop Antenna Assembly
T2	BE110155	Oscillator Coil
T3	BE108129C	Input I.F. Coil—455 kc.
T4	BE108130D	Output I.F. Coil—455 kc.
T5	BE105113	Output Transformer
T6	BE114205	5" P.M. Speaker
T7	BE104216	Power Transformer
L1	BE12312	R.F. Choke
L2	BE10566	R.F. "A" Choke
L3	BE10568	R.F. Choke
L4	BE10566	R.F. "A" Choke
		On-Off Switch on Volume Control
P1	BE12626	Plug-in Vibrator Unit

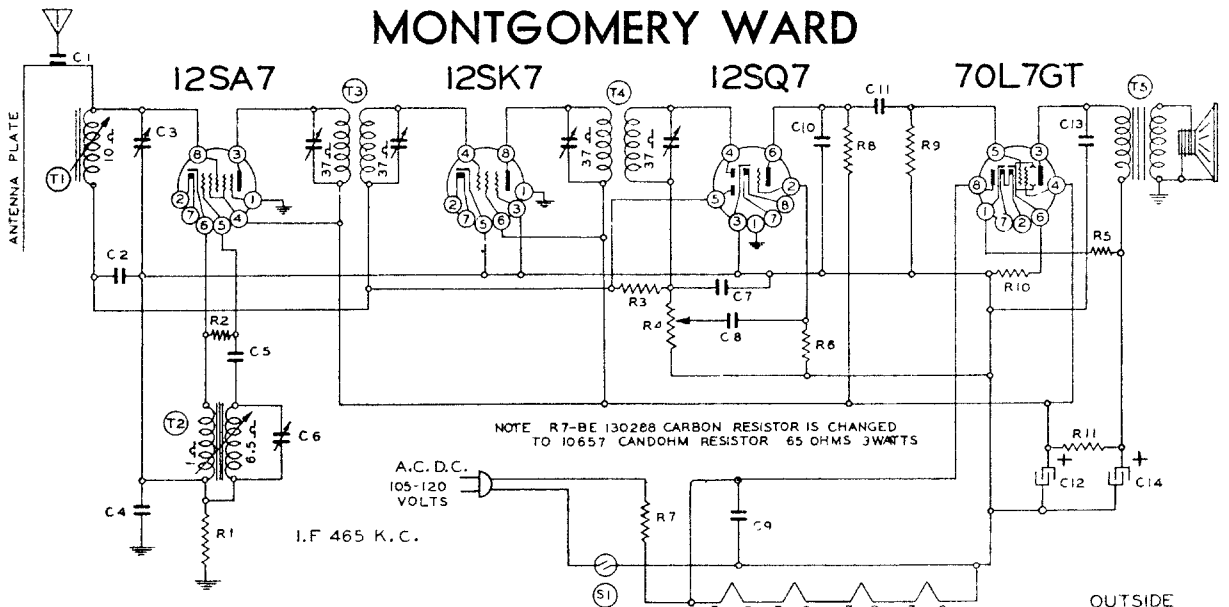
CONDENSERS

C	BE102134	2 gang variable condenser
C1	BE1009	.05 x 200 volts
C2		Antenna trimmer on gang
C3		Oscillator trimmer on gang
C4	BE10020	.1 x 200 v.
C5	BE1295	.0001 mica
C6	BE10020	.1 x 200 v.
C7	BE10013	.05 x 400 v.
C8	BE10031	.5 x 120 v.
C9	BE10031	.5 x 120 v.
C10	BE10073	.008 x 1200 v.
C11	BE12951	.000125 mica
C12	BE10012	.003 x 600 v.
C13	BE12960	.00015 mica
C14	BE10011	.01 x 400 v.
C15	BE10020	.1 x 200 v.
C16	BE119111	20 mid. lytic—25 w. v.
C17	BE119111	40 mid. lytic—200 w. v.
C18	BE119111	20 mid. lytic—200 w. v.
C19	BE119111	20 mid. lytic—200 w. v.
C20	BE10019	.006 x 600 v.
C21	BE10020	.1 x 200 v.

C16, C17, C18, C19 are in same unit

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

MONTGOMERY WARD

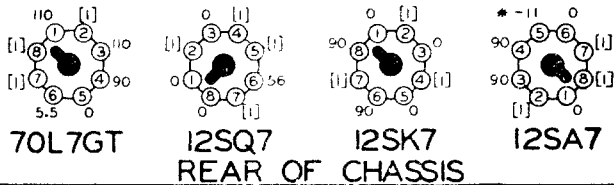


BOTTOM VIEW OF CHASSIS

VOLTAGES MEASURED WITH 1000 OHM PER VOLT VOLT METER BETWEEN SOCKET TERMINALS AND NEGATIVE 'B' SUPPLY.

[] CANNOT BE MEASURED WITH VOLT METER.

* OSCILLATOR VOLTAGE MEASURED WITH R.F. CHOKE IN SERIES WITH LEAD.



BOTTOM VIEW

RESISTORS

R1	BE130100	150M ohm— $\frac{1}{2}$ w.
R2	BE130176	20M ohm— $\frac{1}{2}$ w.
R3	BE1304	3 megohm— $\frac{1}{2}$ w.
R4	BE101188	Volume control (500M ohm)
R5	BE130293	30 ohm—1 watt
R6	BE130257	5 megohm— $\frac{1}{2}$ w.
R7	BE10657	65 ohm—3 watt
R8	BE13011	250M ohm— $\frac{1}{2}$ w.
R9	BE13011	250M ohm— $\frac{1}{2}$ w.
R10	BE130166	150 ohm— $\frac{1}{2}$ w.
R11	BE130279	1M ohm—1 watt

CONDENSERS

C1	BE131262	.00001 washer condenser (Ant. Clip on Back Plate)
C2	BE1009	.05 x 200 v.
C3	BE124100	Antenna Trimmer
C4	BE10091	.15 x 400 v.
C5	BE12939	.00005 mica
C6	BE124100	Osc. Trimmer
C7	BE12912	.00025 mica
C8	BE10025	.002 x 600 v.
C9	BE10013	.05 x 400 v.
C10	BE1292	.00005 mica
C11	BE10011	.01 x 400 v.
C12	BE11992	20 ufd. x 150 w. v. lytic
C13	BE10011	.01 x 400 v.
C14	BE11992	40 ufd. x 150 w. v. lytic

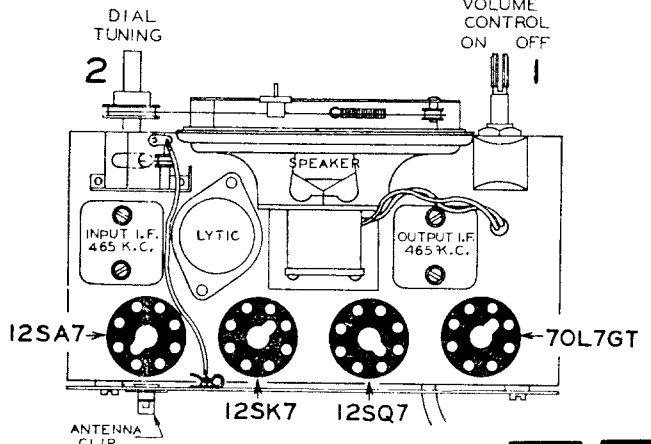
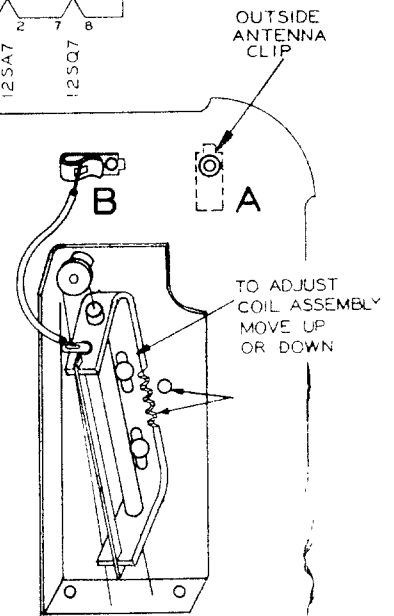
C3 and C6 in one unit
C12 and C14 in one unit

PARTS

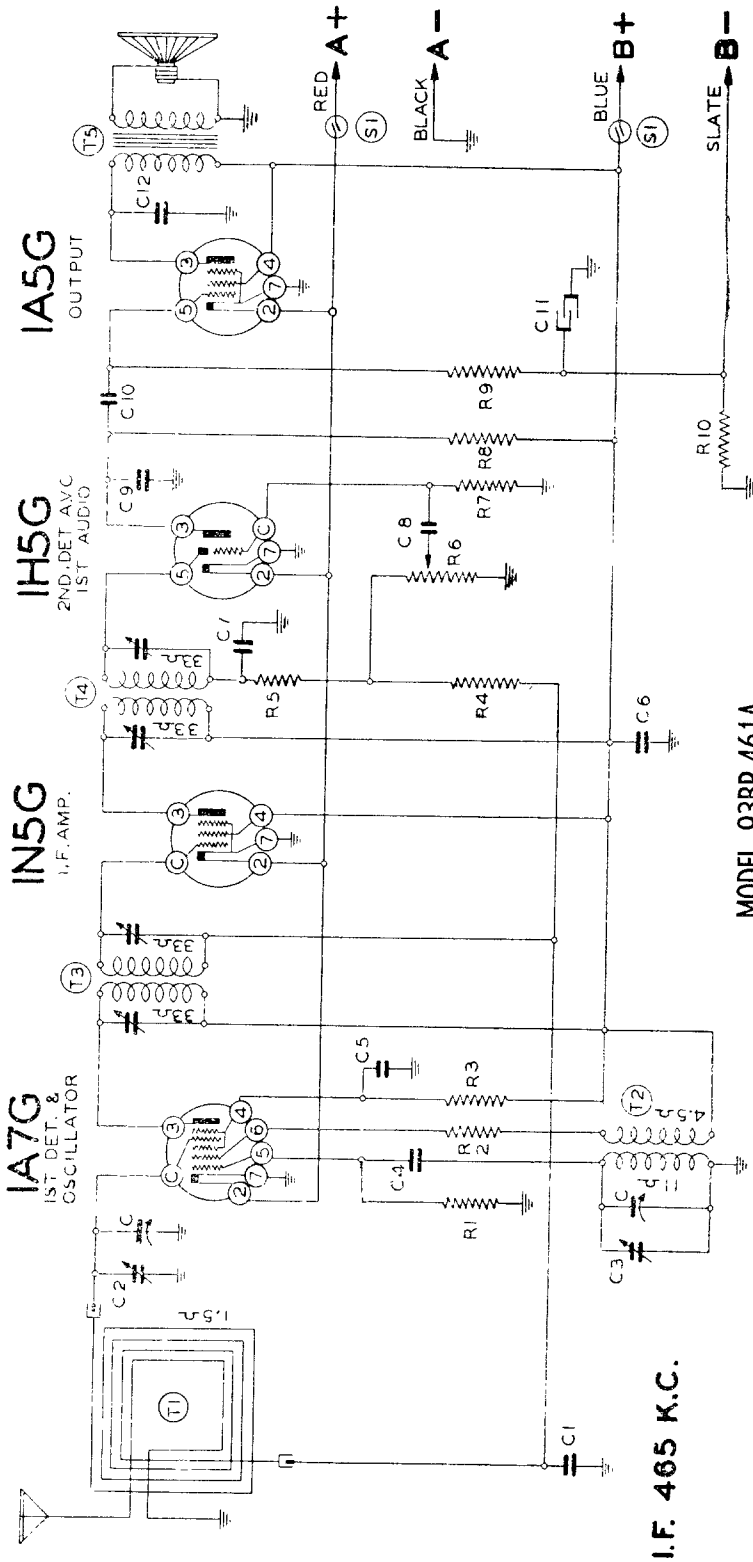
T1	BE111136	Antenna Coil Complete
T2	BE110126	Oscillator Coil
T3	BE108157	Input I. F. Coil—465 kc.
T4	BE108157B	Output I. F. Coil—465 kc.
T5	BE114170	4 in. P. M. Speaker and Output transformer
S1		Off-on switch on volume control

MODEL 93BR-420B

- " 93BR-421B
- " 93BR-423B
- " 93BR-424B
- " 93BR-431B



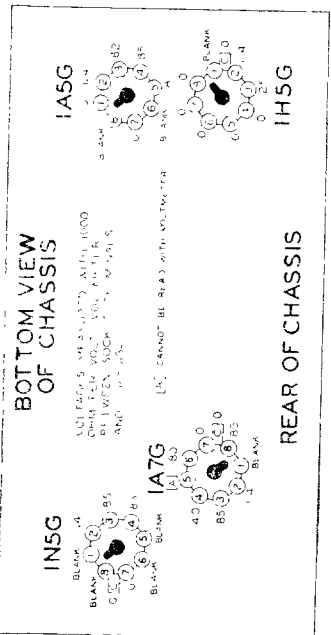
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



MODEL 93BR-461A

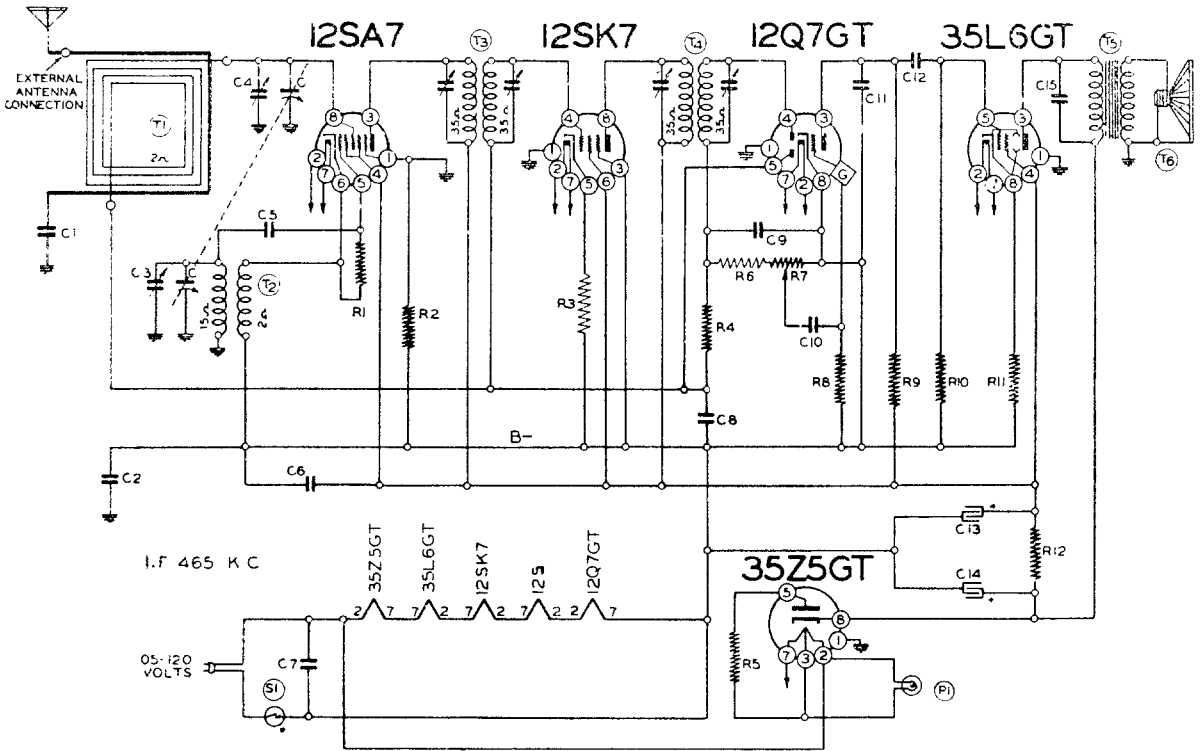
I.F. 465 K.C.

MONTGOMERY WARD



Schematic Ref. No.	Part No.	Description
R1	BE13309	200M ohm— $\frac{1}{2}$ w. 20%
R2	BE13310	4M ohm— $\frac{1}{2}$ w. 20%
R3	BE13318	40M ohm— $\frac{1}{2}$ w. 20%
R4	BE13328	2 megohm— $\frac{1}{2}$ w. 20%
R5	BE13328	100M ohm— $\frac{1}{2}$ w. 20%
R6	BE10173	1 megohm volume control
R7	BE13037	750M ohm— $\frac{1}{2}$ w. 20%
R8	BE13038	2 megohm— $\frac{1}{2}$ w. 20%
R9	BE13070	500 ohm— $\frac{1}{2}$ w. 10%
C1	BE102108	2 gang variable condenser
C2	BE10022	.05 x 200 v. 25%
C3	BE12912	R. F. Trimmer on Gang
C4	BE10049	Oscillator Trimmer on Gang
C5	BE10046	.25 x 200 v. 25%
C6	BE12912	.00025 mica—20%
C7	BE12912	.002 x 600 v. 25%
C8	BE12912	.002 x 600 v. 25%
C9	BE10078	.00035 Mica 20%
C10	BE10078	.01 x 200 v. 25%
C11	BE11975	10 mfd. x 25 v. A. lytic
C12	BE10025	.002 x 600 v. 25%
T1	BE11181	Loop Antenna Complete
T2	BE11021	B. C. Oscillator Coil
T3	BE10851	Output I. F. Coil
T4	BE10852	Output I. F. Coil
T5	BE11185	500 ohm with output transformer
S1		D. P. S. T. On-off switch on volume control

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



Schematic Part
Ref. No. No.

Description

Schematic Part
Ref. No. No.

Description

RESISTORS

R1	BE130176	20M ohm— $\frac{1}{4}$ w.—10%
R2	BE1309	200M ohm— $\frac{1}{4}$ w.
R3	BE130203	40 ohm— $\frac{1}{4}$ w.—10%
R4	BE1304	3 megohm— $\frac{1}{4}$ w.
R5	BE130215	25 ohm— $\frac{1}{4}$ w.
R6	BE1301	25M ohm— $\frac{1}{4}$ w.
R7	BE101170	1 megohm—volume control
R8	BE130257	5 megohm— $\frac{1}{4}$ w.
R9	BE1303	500M ohm— $\frac{1}{4}$ w.
R10	BE13033	500M ohm— $\frac{1}{4}$ w.
R11	BE130166	150 ohm— $\frac{1}{4}$ w.
R12	BE130199	1500 ohm—1 watt

CONDENSERS

C	BE102107	2 gang variable condenser
C1	BE10011	.01 x 400 v.
C2	BE10091	.15 x 400 v.
C3		Osc. Trimmer on Gang
C4		Antenna Trimmer on Gang
C5	BE12921	.0002 mica

C6	BE1009	.05 x 200 v.
C7	BE1001	.1 x 400 v.
C8	BE1009	.05 x 200 v.
C9	BE1295	.0001 mica
C10	BE10025	.002 x 600 v.
C11	BE12912	.00025 mica
C12	BE100106	.004 x 600 v.
C13	BE11987	30 mfd. lytic
C14	BE11987	30 mfd. lytic
C15	BE10026	.02 x 400 v.

C13 and C14 in same unit

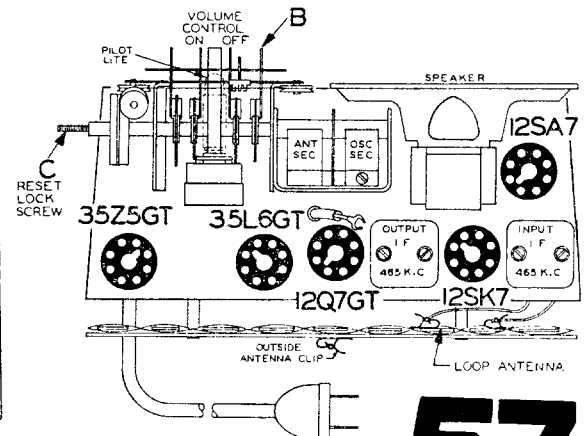
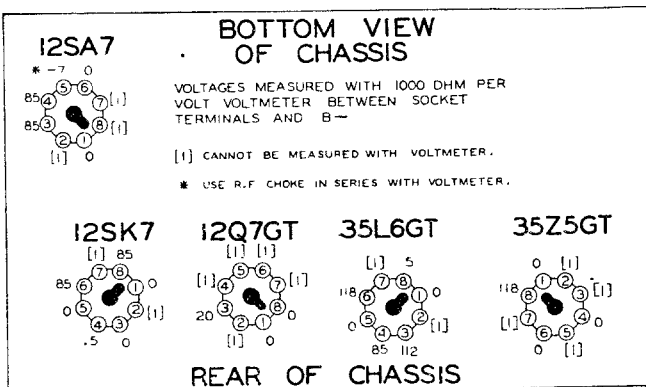
PARTS

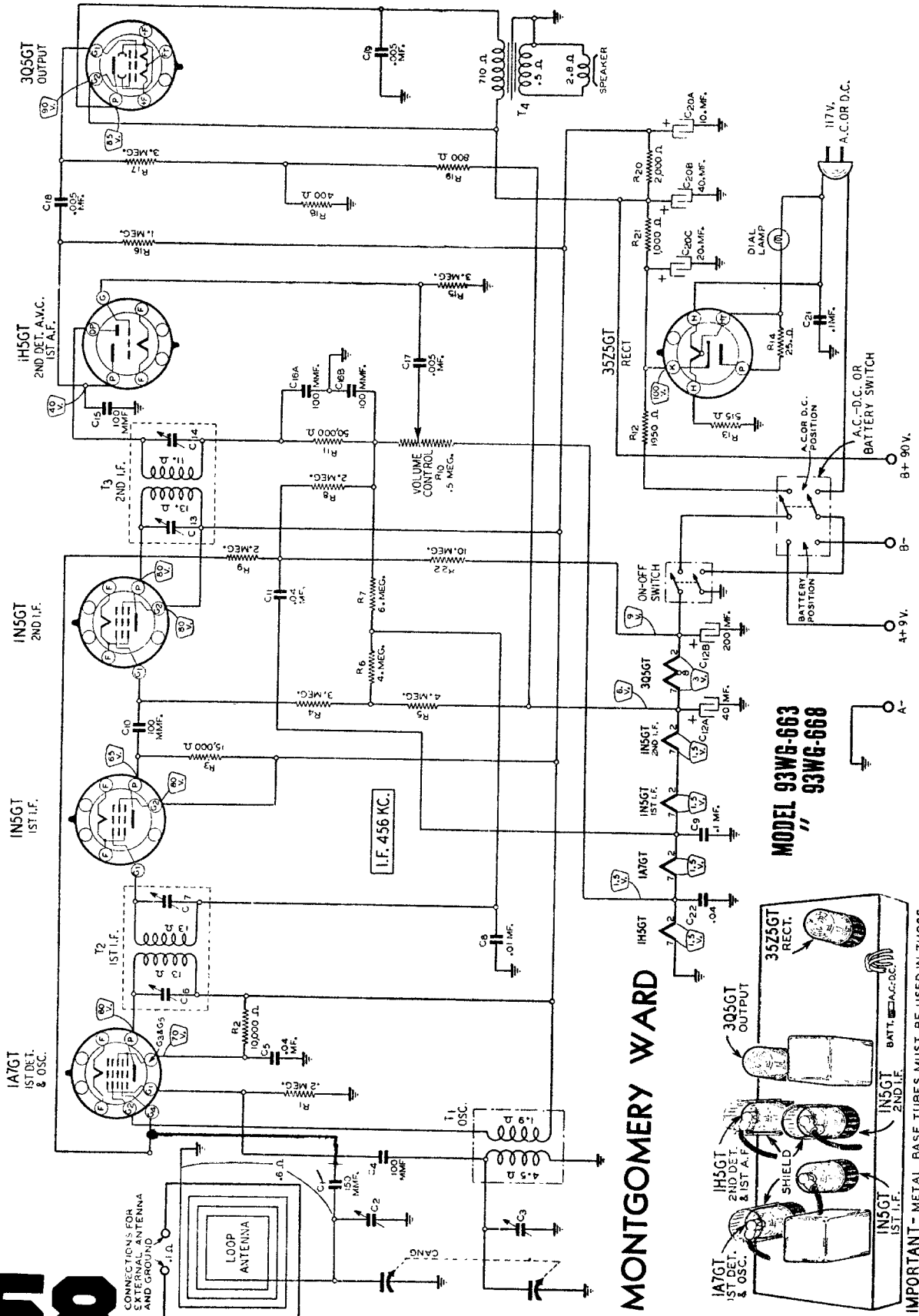
T1	BE11128	Loop Antenna
T2	BE110116	Oscillator Coil
T3	BE108140E	Input I. F.
T4	BE108141B	Output I. F.
T5	BE10589	Output Transformer
T6	BE114160	5" P. M. Speaker
S1		Off-on switch on vol. control
P1	BE107249	6-8 v. pilot light T-47

Wards

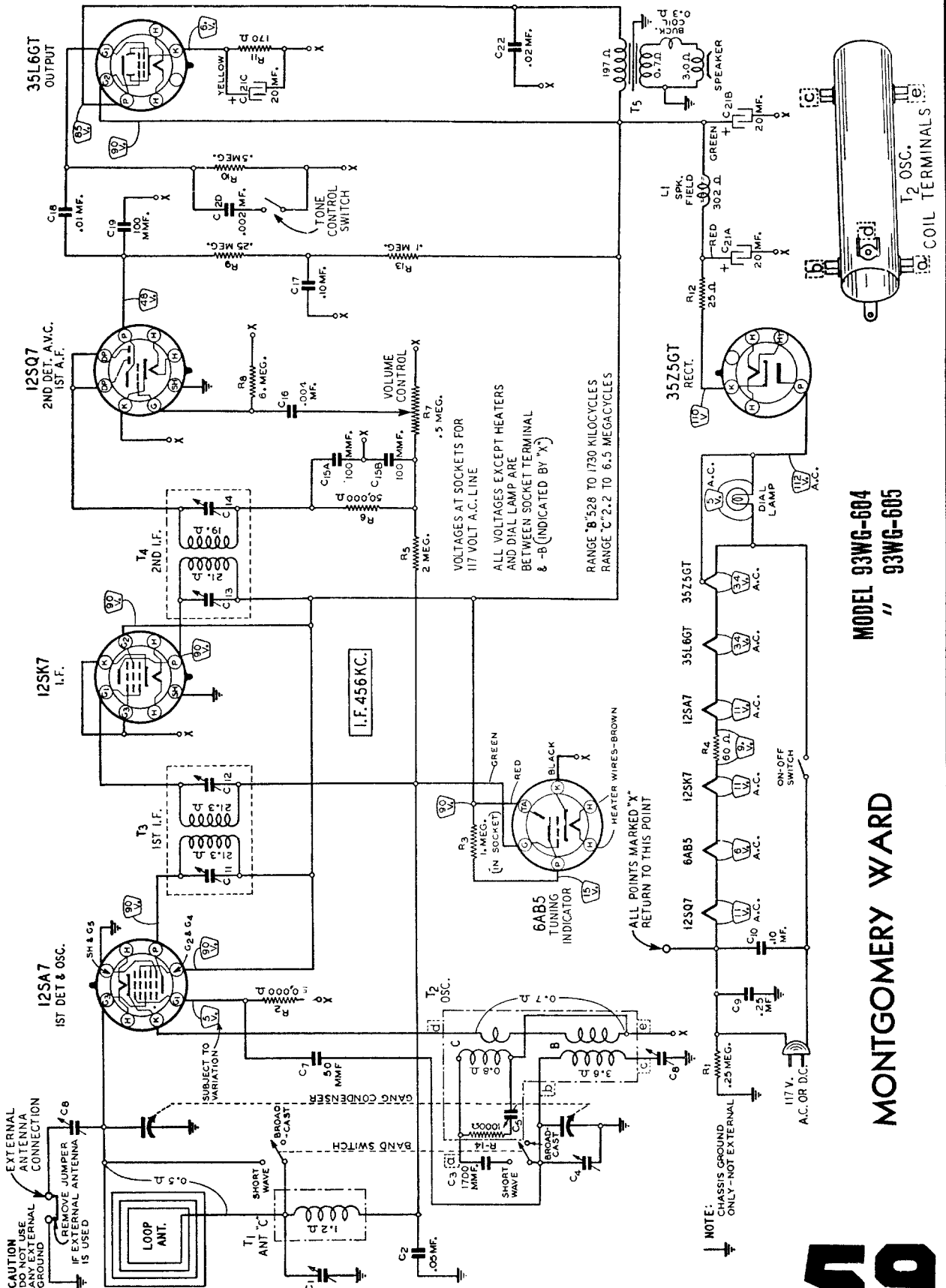
MODEL 93BR508A

" 93BR509A

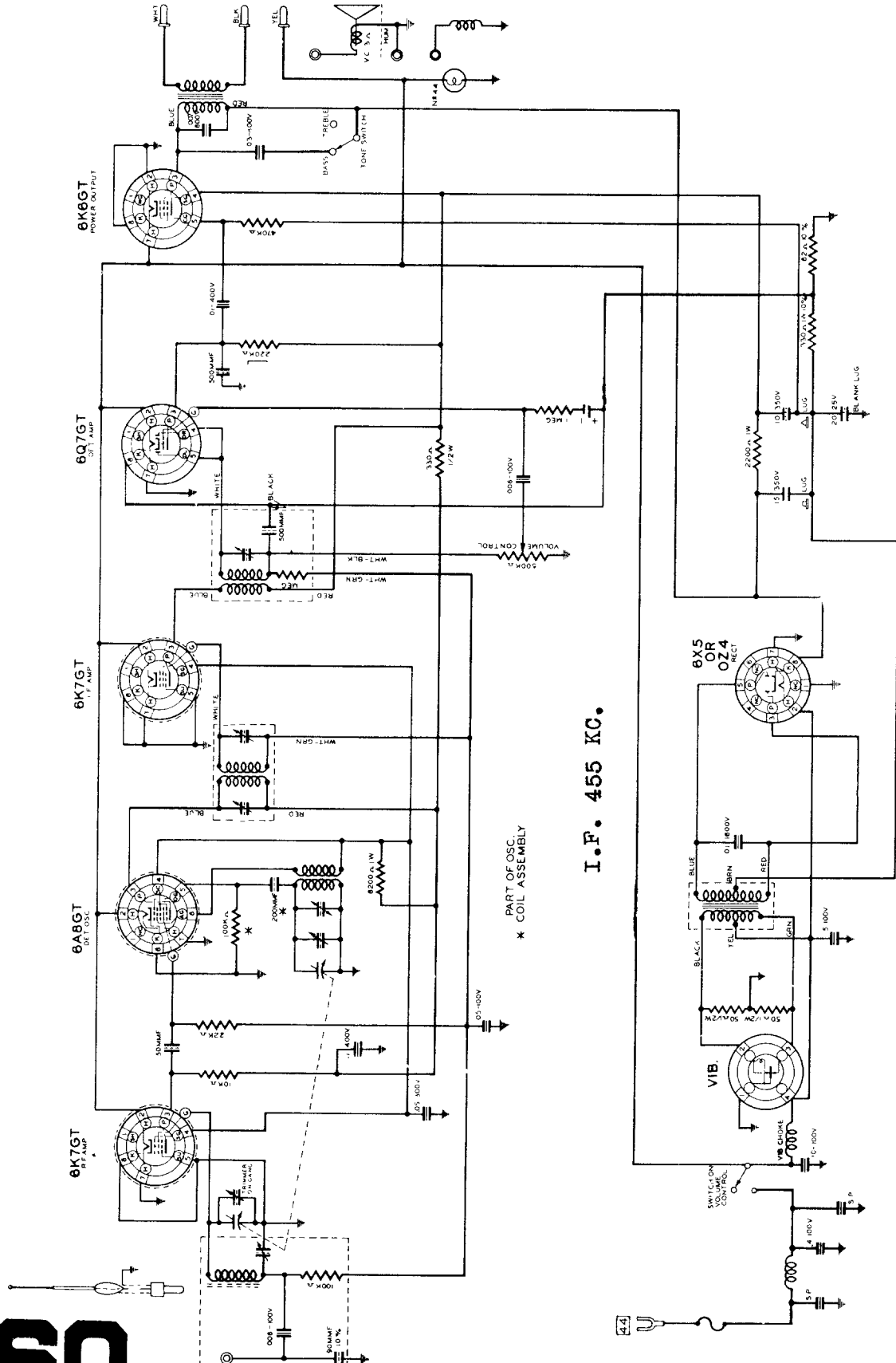




MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

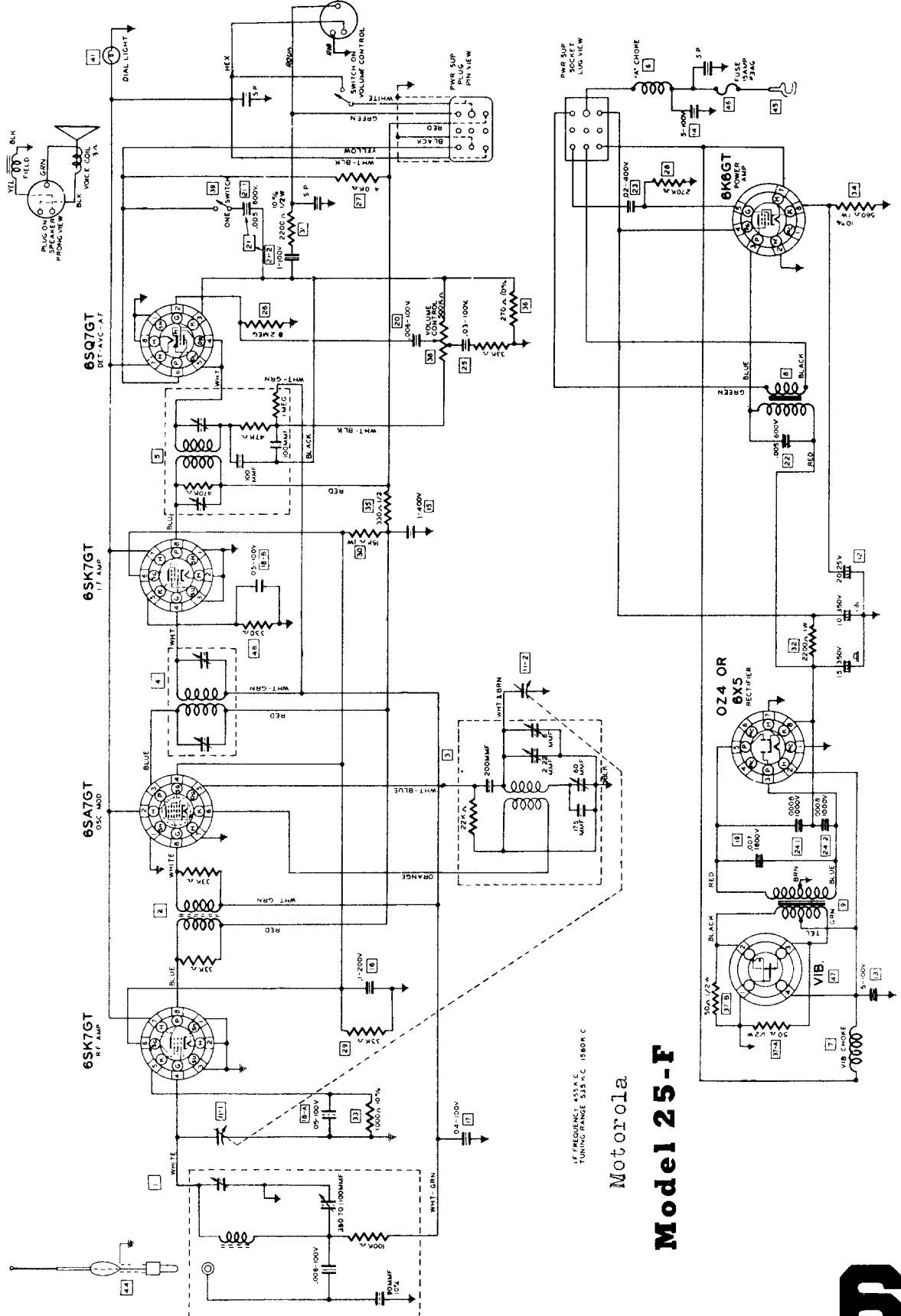


MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



Motorola Model No. 27-D-6

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



Motorola
Model 25-F

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

Motorola

MODEL 28-0

MODEL 30-P

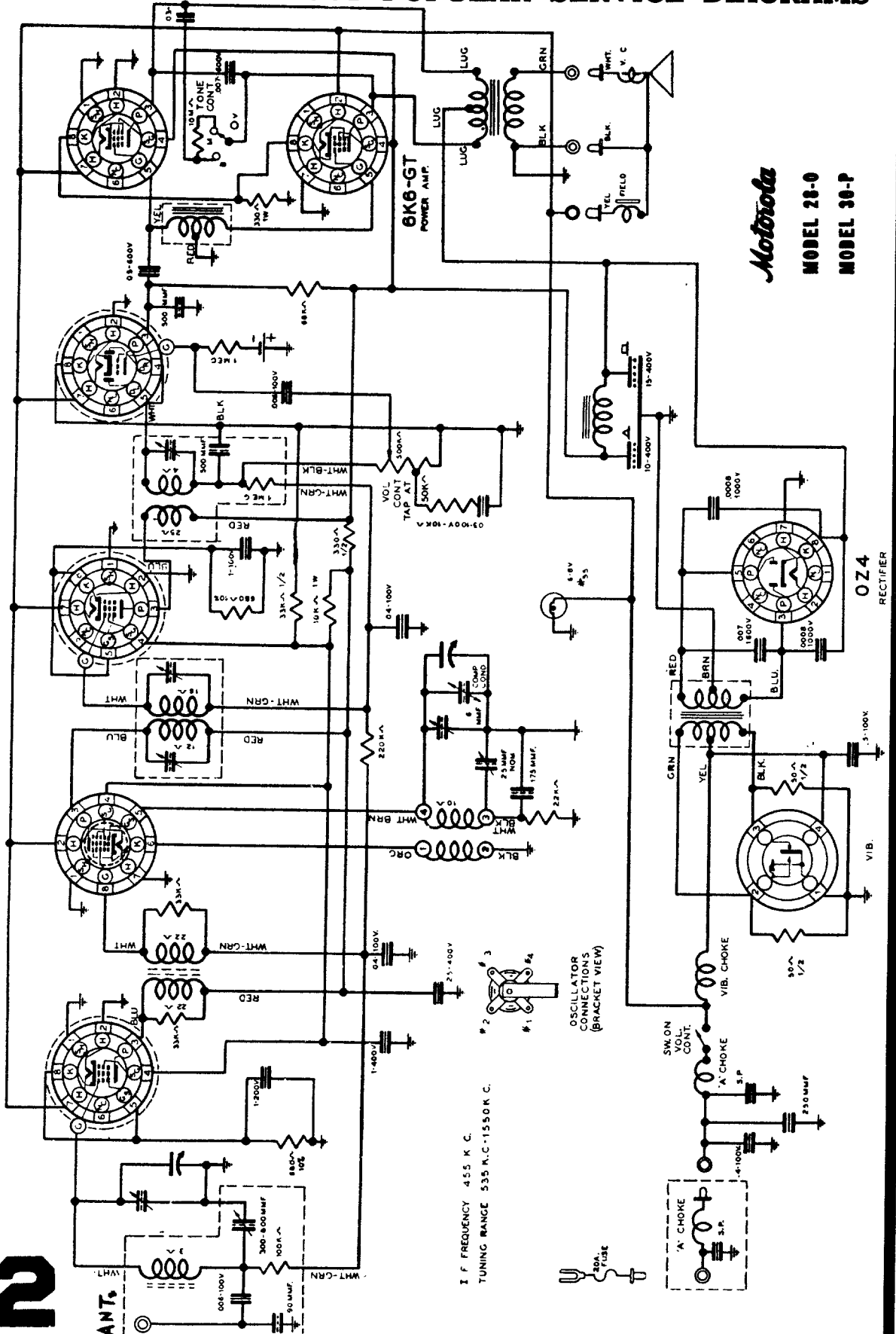
6K6-GT
POWER AMP.

6Q7-GT
DET.-A.V.C.-A.F.

6K7-GT
I.F. AMP.

6SA7-GT
OSC.-MOD.

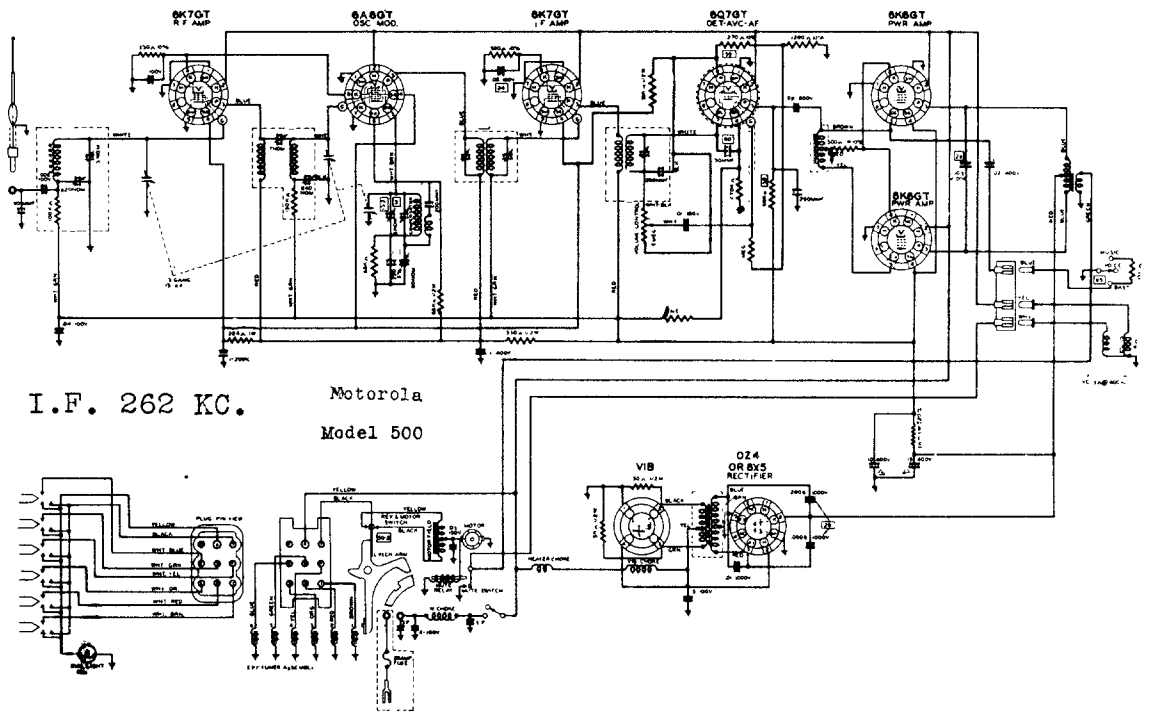
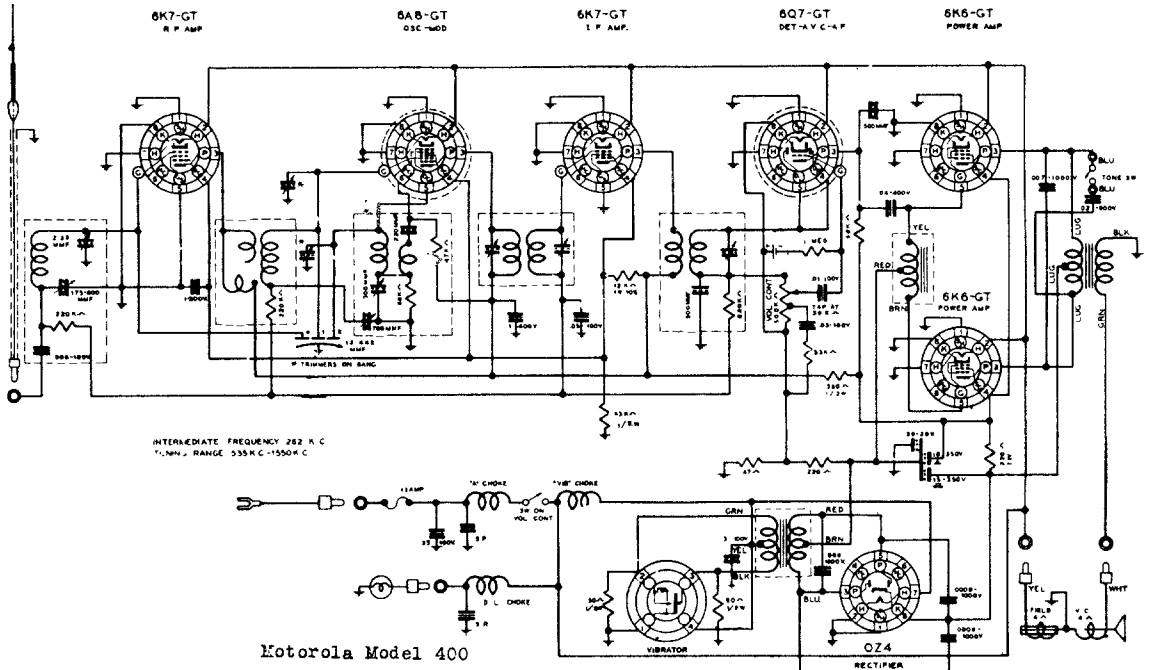
6K7-GT
R.F. AMP.



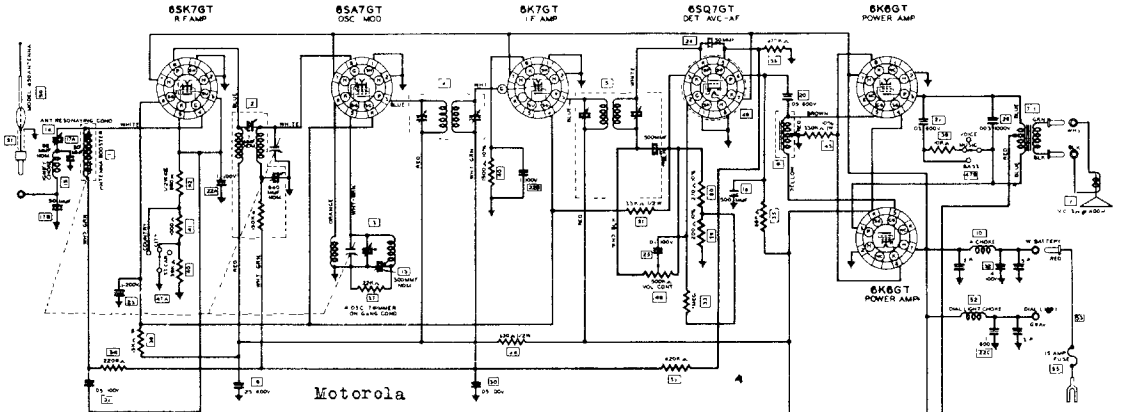
I.F. FREQUENCY 455 K.C.
TUNING RANGE 535 K.C.-1550 K.C.

OSCILLATOR CONNECTIONS (BRACKET VIEW)

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

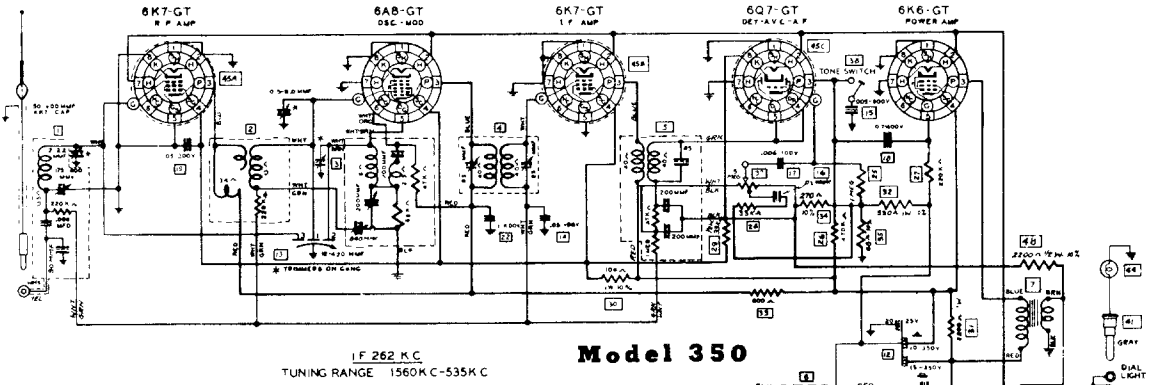
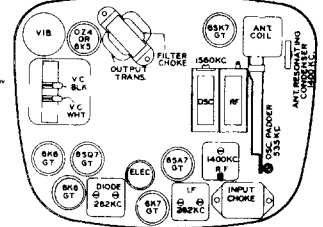
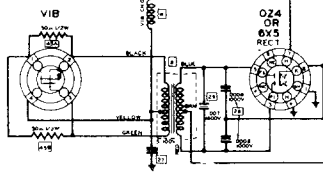


Motorola
Model 450

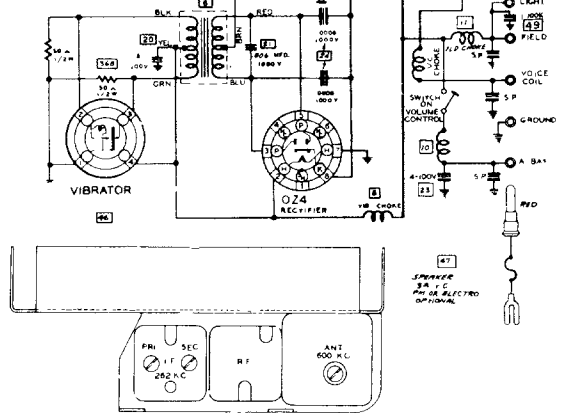
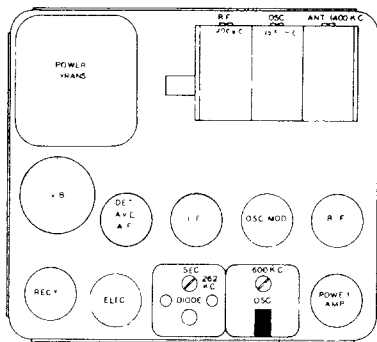
PIESER GROUP

PIESER UNIT TYPE	PLATE	SCREEN	GRID
R.F.	250	75	4.5
OSC. MOD.	250	75	4.5
I.F.	250	75	4.5
DET. AVC. A.F.	250	75	4.5
POWER	250	75	4.5
REC.	250	75	4.5
AMP.	250	75	4.5

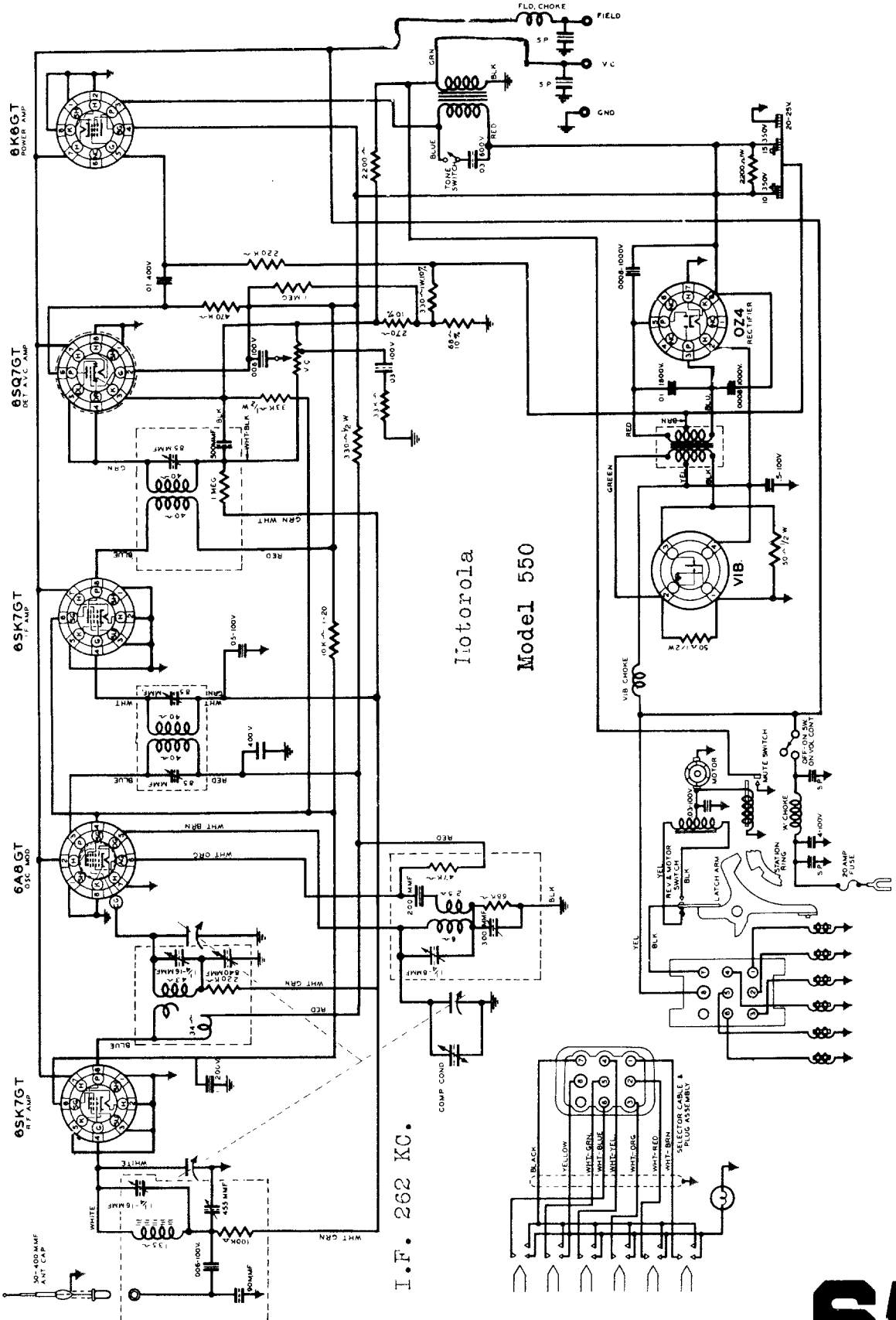
All voltages measured from socket terminals, to filament ground using 1000 ohm meter and 250 ohm resistor.
 OPERATING I.F. RANGE: 450 KHZ. REC. RANGE: 500 KHZ. TO 1.5 MHz.
 CONNECTIONS: ANT. "53" and "53A" and "53B" as shown.



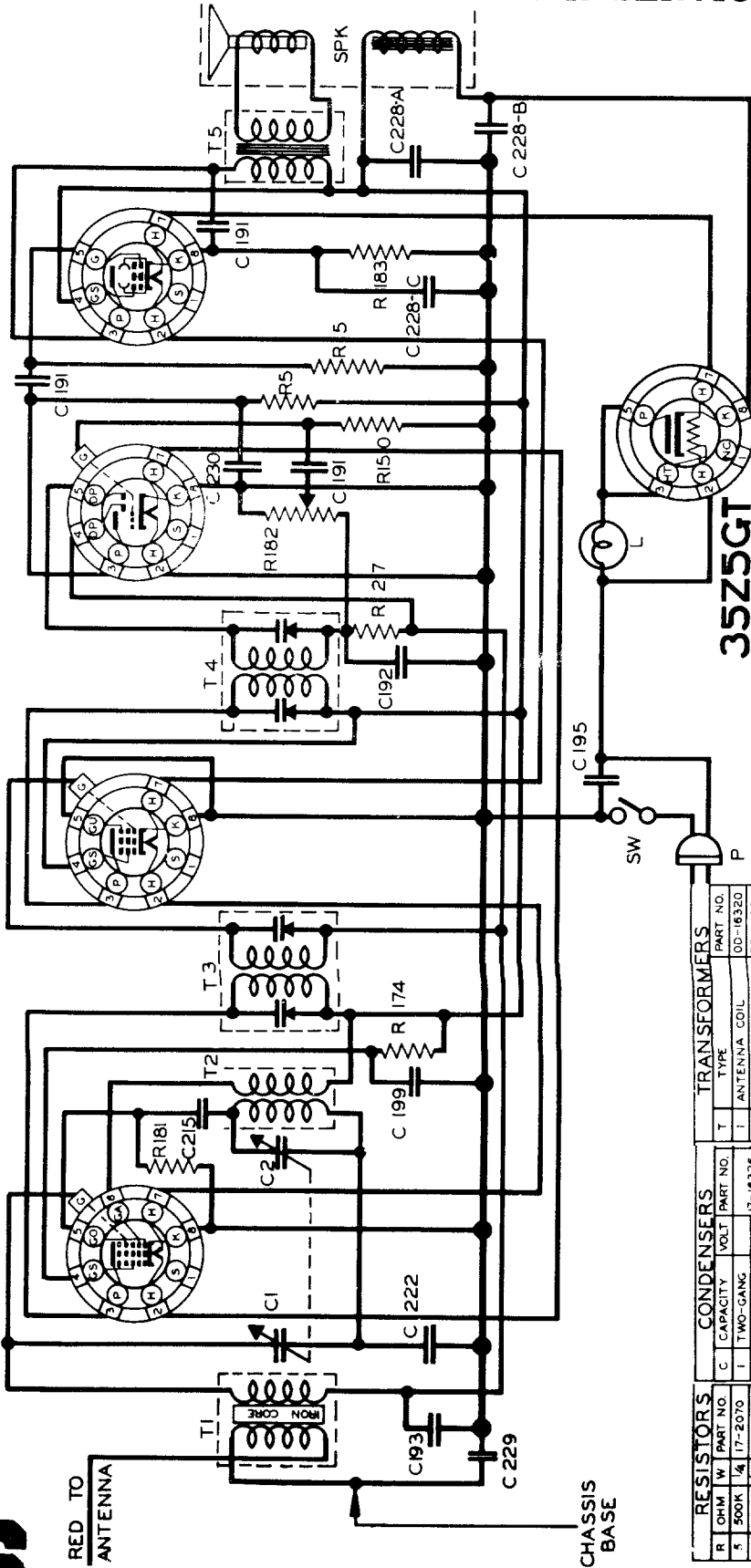
Model 350



MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



ARVIN HOME RADIO CHASSIS RE 48
 12A8GT 12K7GT 12Q7GT 50L6GT



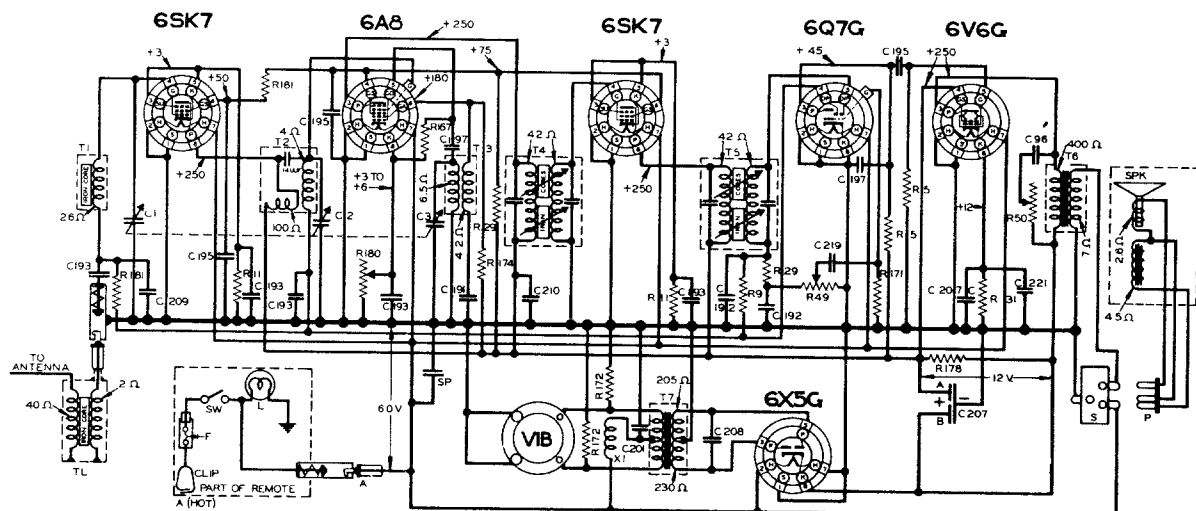
MISCELLANEOUS UNITS		
SYMBOL	DESCRIPTION	PART NO
L	DIAL LIGHT BULB - MAZDA NO 51	17-13904
P	LINE CORD & PLUG ASSEMBLY	17-16371
SPK	SPEAKER ASSEMBLY	17-1634A
SW	LINE SWITCH	17-14315

I.F. PEAK 455 K.C.
 BALANCE 1400 K.C. - CHECK AT 600K.C.
 NOBLITT-SPARKS INDUSTRIES, INC.,

RESISTORS		CONDENSERS		TRANSFORMERS	
R	W	C	TYPE	T	PART NO.
5	500K	1	TWO-GANG	1	ANTENNA COIL
27	2M	2	VARIABLE	2	OSCILLATOR COIL
150	5M	191	.01	3	FIRST I.F. COIL
174	20K	192	.00025	4	SECOND I.F. COIL
181	100K	193	.05	5	OUTPUT TRANS.
182	1M	194	.05		
183	150	215	.0001		
		222	.2		
		228A	10 MFD.		
		228B	20 MFD.		
		229C	20 MFD.		
		229	.02		
		23D	.0005		

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

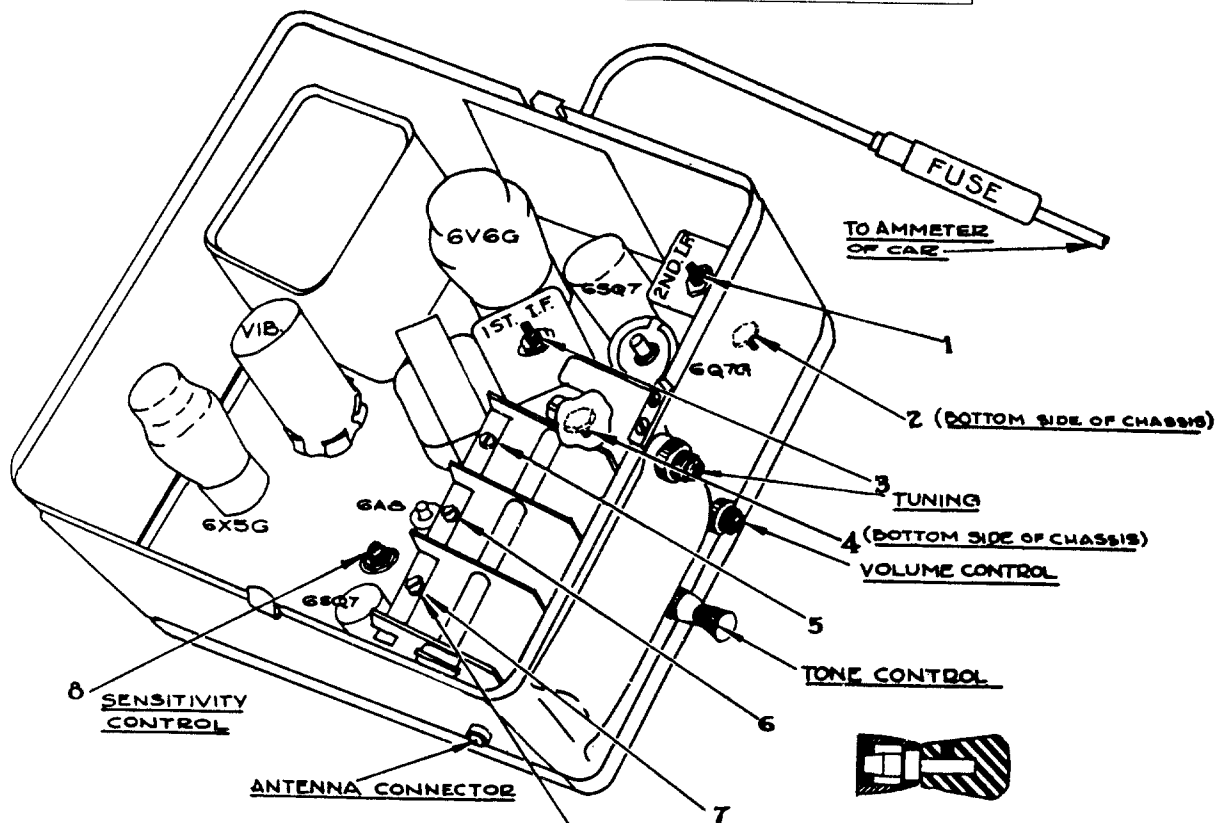
ARVIN CAR RADIO CHASSIS RE-60



NOTE - ALL VOLTAGES GIVEN FOR 9A INPUT OF 6 VOLTS. ALLOW 10% ON ALL VOLTAGES & RESISTANCES OF WINDING

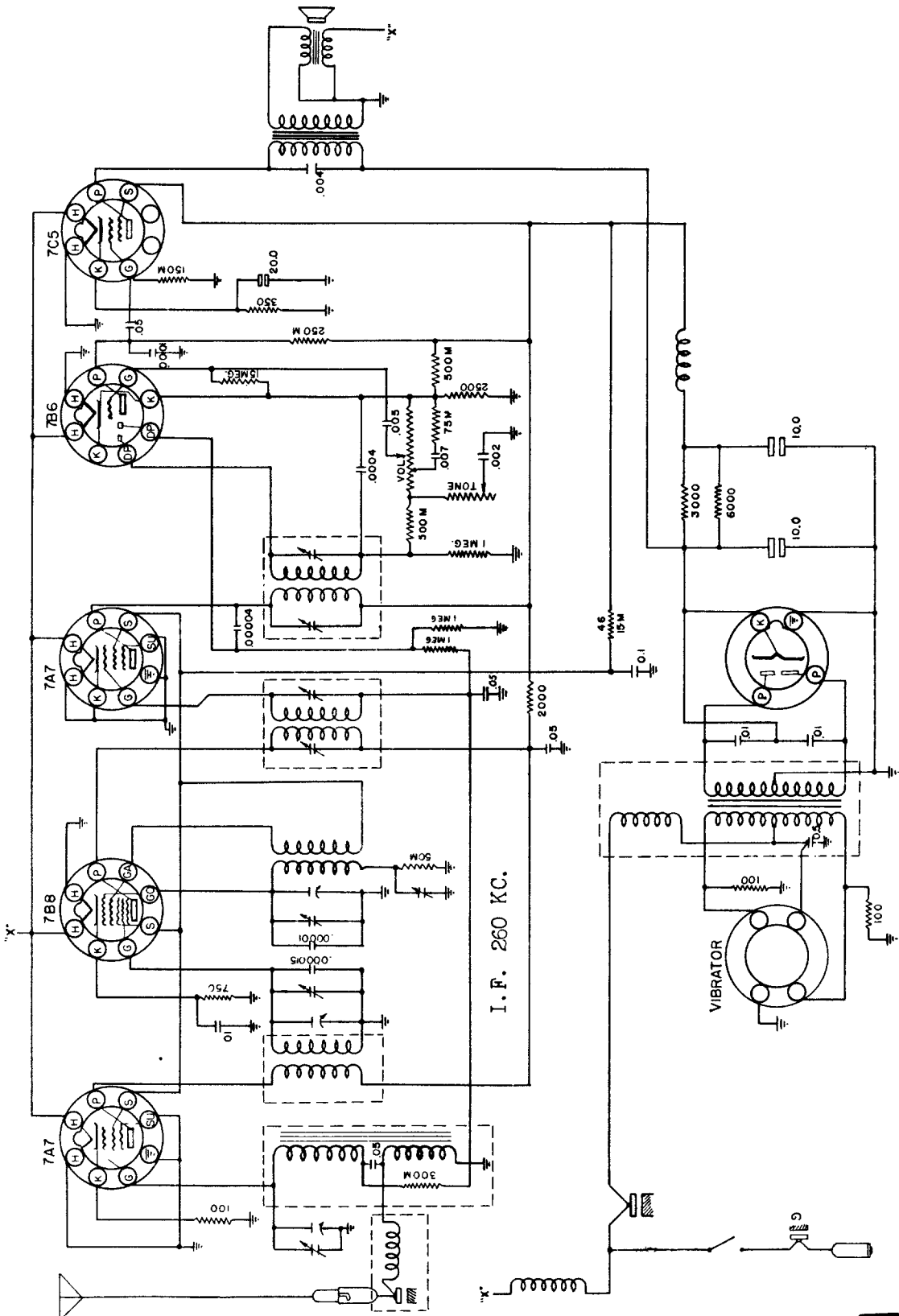
RESISTORS		CONDENSERS		CHOKES & TRANSFORMERS		MISCELLANEOUS UNITS	
Q	VALUE	C	VALUE	T	TYPE	MANUFACTURER	PART NO.
1	500K	1	1000	1	ANTENNA COIL	00-18300	
2	1M	2	1000	2	1st I.F. COIL	00-18301	
3	100K	3	1000	3	OSCILLATOR COIL	00-18302	
4	100K	4	1000	4	2nd I.F. COIL	00-18303	
5	100K	5	1000	5	SECOND I.F. COIL	00-18304	
6	100K	6	1000	6	OUTPUT TRANS	00-18305	
7	100K	7	1000	7	POWER TRANS	00-18306	
8	100K	8	1000	8	CHOKES		
9	100K	9	1000	9	SUPPRESSION CHoke	28-18308	
10	100K	10	1000	10	TUNE - RANGE	17-1888	
11	100K	11	1000	11	ANTENNA BAL. SCREW	MA20A NO 5	
12	100K	12	1000	12	SPARK PLUG		
13	100K	13	1000	13	MECHANICAL SOCKET		
14	100K	14	1000	14	WELDED ASSEMBLY		
15	100K	15	1000	15	POWER SWITCH		
16	100K	16	1000	16	SPARK PLATE		
17	100K	17	1000	17	TRANSFORMER LINE		
18	100K	18	1000	18	VIB. VIBRATOR		

INTERMEDIATE FREQUENCY 170 K.C.
FREQUENCY RANGE 1570 TO 540 K.C.
NOBLITT-SPARKS INDUSTRIES, INC.,
COLUMBUS, INDIANA



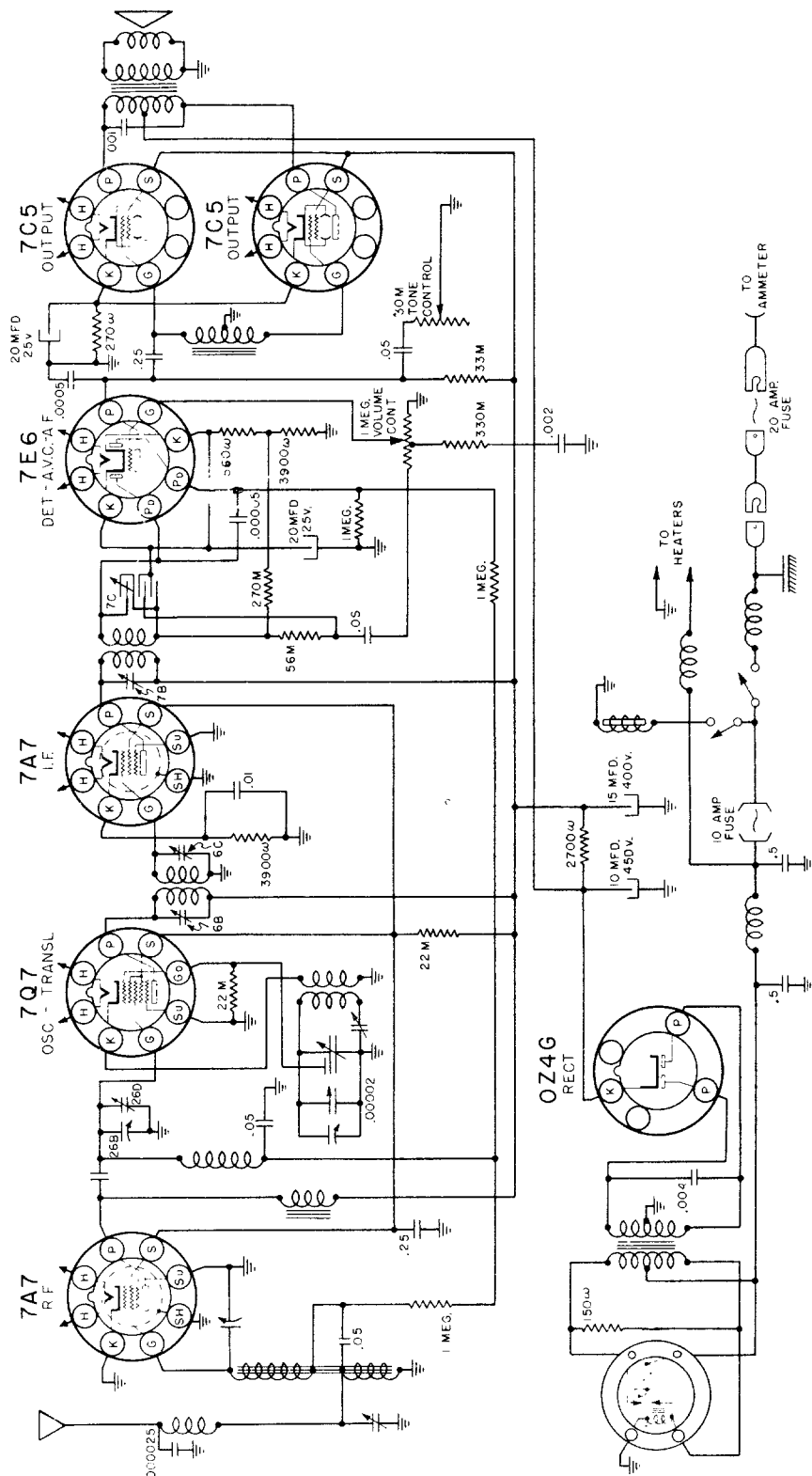
ADJUST THIS ANTENNA BALANCING SCREW AFTER INSTALLATION OF THE RADIO ON THE CAR. TUNE IN A WEAK STATION FROM 1200 TO 1400 K.C. AND TURN UNTIL MAXIMUM VOLUME IS OBTAINED.

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



OLDS MODEL 982161 - CIRCUIT DIAGRAM

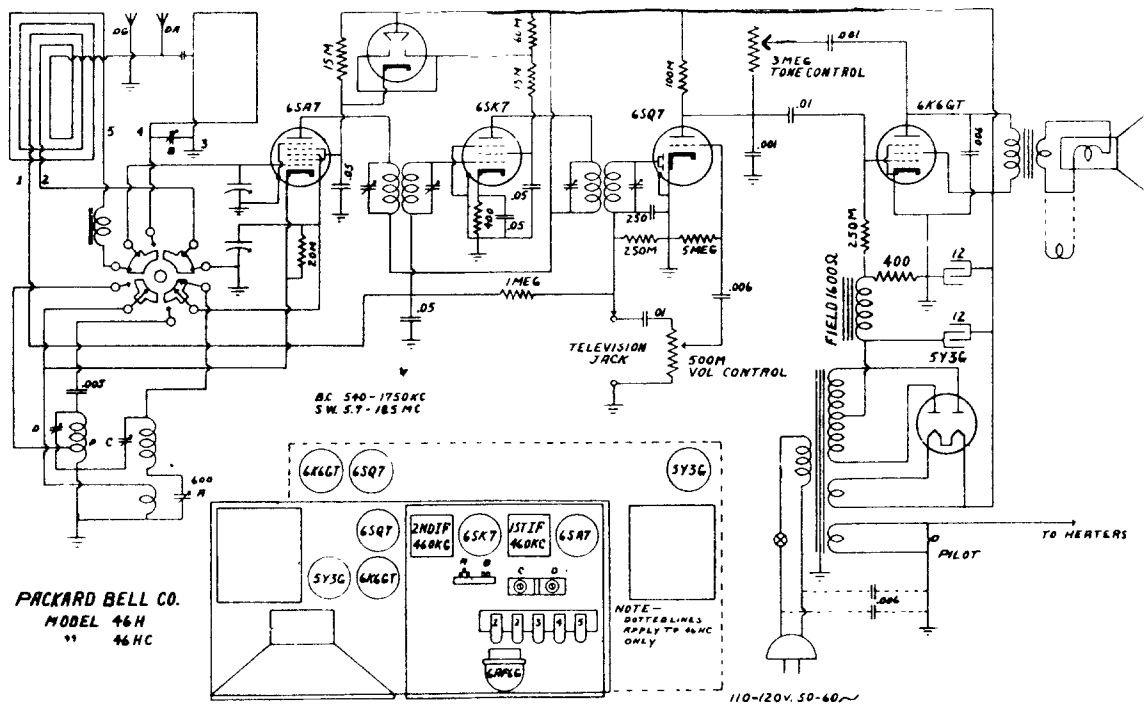
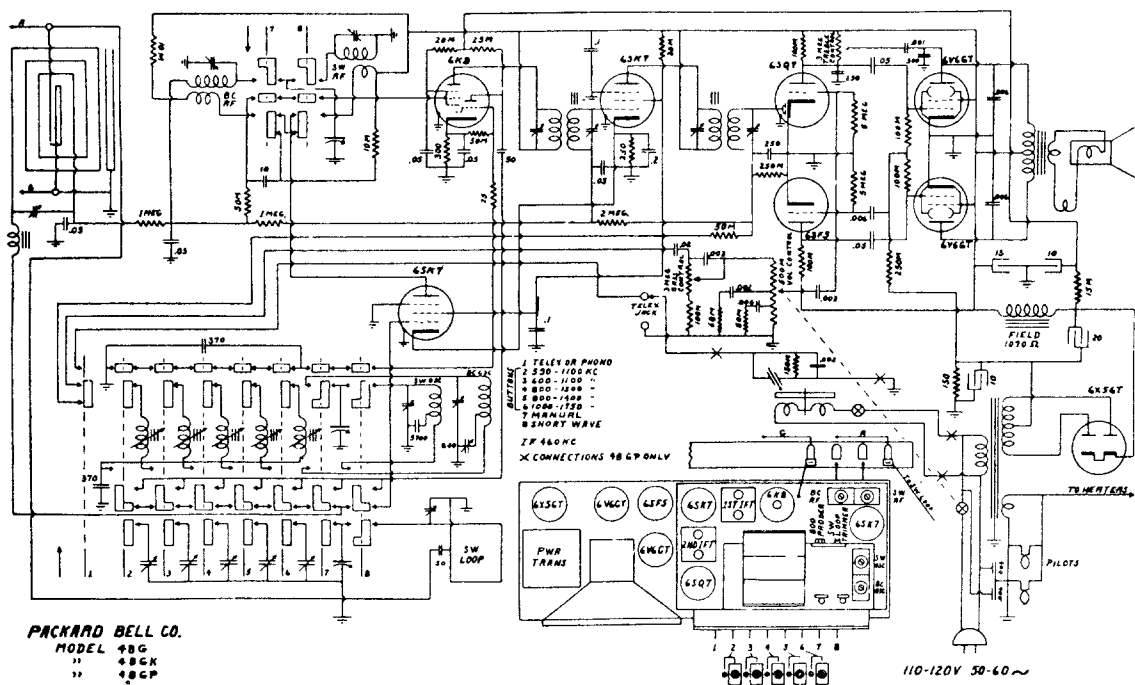
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



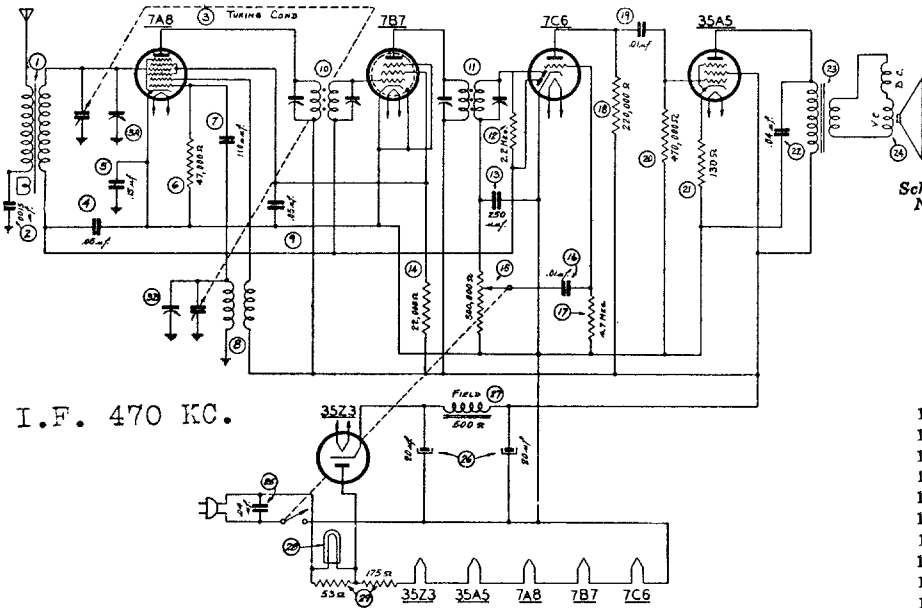
I. F. 260 KC.

OLDS MODEL 982160 - CIRCUIT DIAGRAM

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

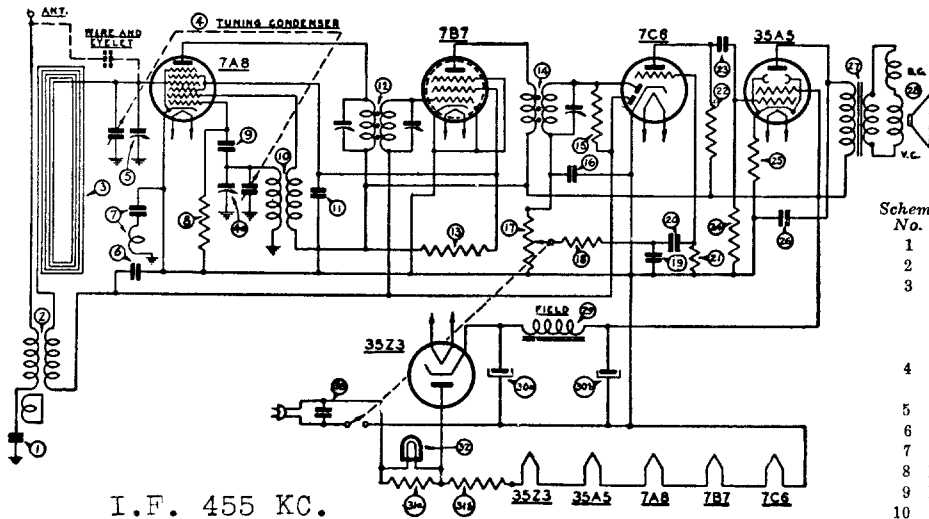


I.F. 470 KC.

PHILCO TRANSITONE HOME RADIO MODELS PT-25, PT-27 AND PT-39

Schem. No.	Description
1	Antenna Transformer
2	Tubular Condenser (.0015 mf., 200 V.)
3	Tuning Condenser
4	Tubular Condenser (.05 mf., 200 V.)
5	Tubular Condenser (.15 mf., 400 V.)
6	Resistor (47,000 ohms, 1/4 watt)
7	Mica Condenser (110 mmf.)
8	Oscillator Transformer
9	Tubular Condenser (.05 mf., 200 V.)
10	1st I. F. Transformer
11	2nd I. F. Transformer
12	Resistor 2.2 meg., 1/4 watt)
13	Mica Condenser (250 mmf.)
14	Resistor (22,000 ohms, 1/2 watt)
15	Volume Control (500,000 ohms)
16	Tubular Condenser (.01 mf., 200 V.)
17	Resistor (4.7 meg., 1/4 watt)
18	Resistor (220,000 ohms, 1/4 watt) ..
19	Tubular Condenser (.01 mf., 400 V.)
20	Resistor (470,000 ohms, 1/4 watt) ..
21	Resistor (130 ohms, 1/2 watt)
22	Tubular Condenser (.04 mf., 400 V.)
23	Output Transformer ..Part of Speaker
24	Speaker
25	Tubular Condenser (.04 mf., 400 V.)
26	Electrolytic Condenser (20-20 mf., 150 V.)
27	Field Coil
28	Pilot Lamp
29	Line Resistor

PHILCO TRANSITONE HOME RADIOS — MODELS PT-26, PT-28 AND PT-36

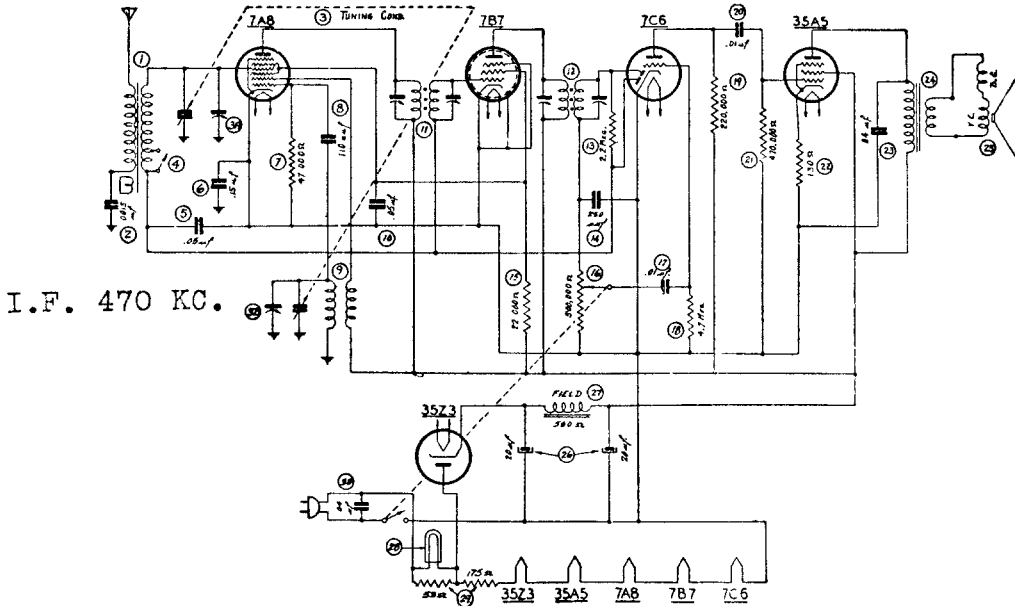


I.F. 455 KC.

24	Resistor (470,000 ohms, 1/4 watt) ..
25	Resistor (130 ohms, 1/2 watt)
26	Tubular Condenser (.04 mf., 400V) .
27	Output Transformer—Part of Speaker
28	Speaker
29	Field Coil—Part of Speaker No.
30	Electrolytic Condenser (20-20 mf., 150V)
31	Line Resistor
32	Pilot Lamp
33	Tubular Condenser (.04 mf., 400V) ...

Schem. No.	Description
1	Tubular Condenser (.0015 mf., 200V) ..
2	Antenna Transformer
3	Loop Antenna — Part of cabinet and loop PT-26
	PT-28
	PT-36
4	Tuning Condenser — PT-26 & PT-28 ... PT-36
5	Padding Condenser
6	Tubular Condenser (.1 mf., 200V)
7	Condenser & Choke Assy.
8	Resistor (22,000 ohms, 1/4 watt)
9	Mica Condenser (110 mmf.)
10	Oscillator Transformer
11	Tubular Condenser (.05 mf., 200V)
12	1st I. F. Transformer
13	Resistor (22,000 ohms, 1/2 watt)
14	2nd I. F. Transformer
15	Resistor (2.2 meg., 1/4 watt)
16	Mica Condenser (250 mmf.)
17	Volume Control (500,000 ohms)
18	Resistor (47,000 ohms, 1/4 watt)
19	Mica Condenser (250 mmf.)
20	Tubular Condenser (.01 mf., 200V) .
21	Resistor (4.7 meg., 1/4 watt)
22	Resistor (220,000 ohms, 1/4 watt) ..
23	Tubular Condenser (.01 mf., 400V) .

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



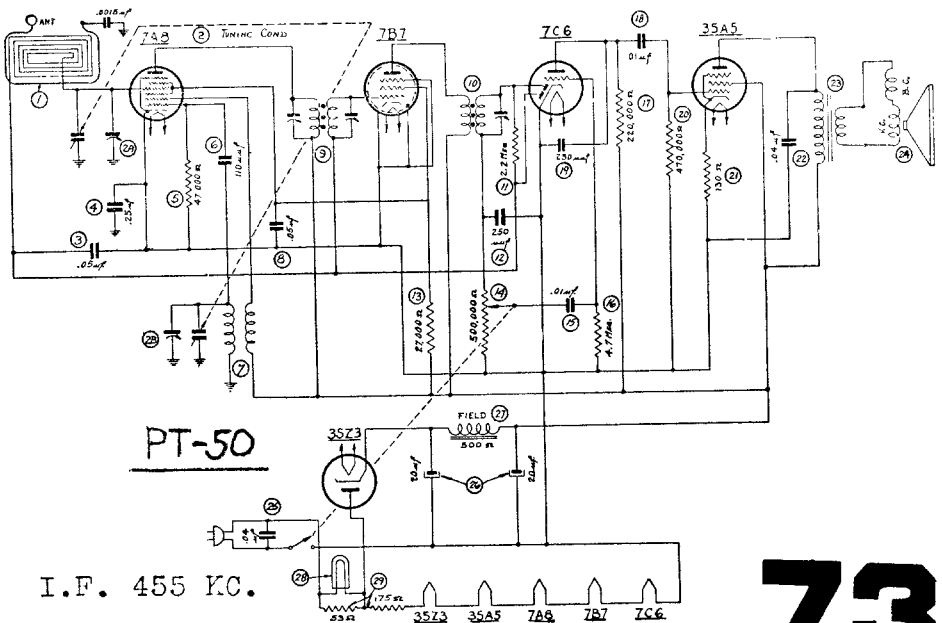
I.F. 470 KC.

PHILCO TRANSITONE HOME RADIO MODELS PT-29 AND PT-31

Schem. No.	Description	Philco Part No.	Schem. No.	Description	Philco Part No.
1	Antenna Transformer	32-3164	18	Resistor (4.7 meg., ¼ watt)	33-547154
2	Tubular Condenser (.0015 mf., 200 v.)	30-4555S	19	Resistor (220,000 ohms, ¼ watt)	33-422154
3	Tuning Condenser	31-2427	20	Tubular Condenser (.01 mf., 400 v.)	30-4572S
4	Switch	42-1406	21	Resistor (47,000 ohms, ¼ watt)	33-447154
5	Tubular Condenser (.05 mf., 200 v.)	30-4519S	22	Resistor (130 ohms, ½ watt)	33-113336
6	Tubular Condenser (.15 mf., 400 v.)	30-4505S	23	Tubular Condenser (.04 mf., 400 v.)	30-4119S
7	Resistor (47,000 ohms, ¼ watt)	33-347154	24	Output Transformer	
8	Mica Condenser (110 mmf.)	30-1130	25	Part of Speaker No.	36-1469
9	Oscillator Transformer	32-3152	25	Speaker	36-1469
10	Tubular Transformer (.05 mf., 200 v.)	30-4519S	26	Electrolytic Condenser (20-20 mf., 150 v.)	30-2382
11	1st I. F. Transformer	32-3149	27	Field Coil Part of Speaker,	
12	2nd I. F. Transformer	32-3150	27	Part Number	36-1469
13	Resistor (2.2 meg., ¼ watt)	33-522154	28	Pilot Lamp	34-2068
14	Mica Condenser (250 mmf.)	61-0083	29	Line Resistor	33-3367
15	Resistor (22,000 ohms, ½ watt)	33-322334	30	Tubular Condenser (.04 mf., 400 v.)	30-4119S
16	Volume Control (500,000 ohms)	33-5306			
17	Tubular Condenser (.01 mf., 200 v.)	30-4479S			

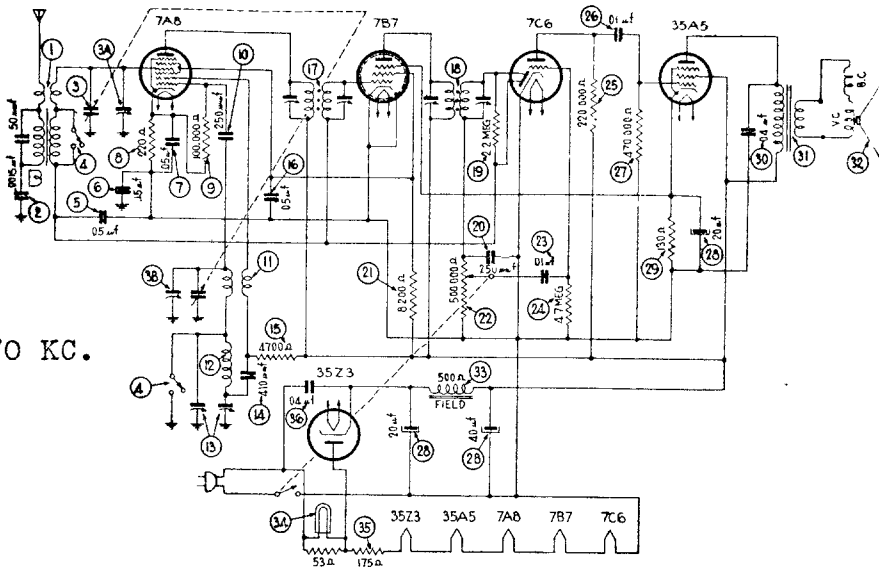
PHILCO TRANSITONE HOME RADIOS — MODELS PT-33, PT-41 AND PT-61

- 1 Loop Antenna Assembly
- 2 Tuning Condenser
- 3 Tubular Condenser (.05 mf., 200 V.)
- 4 Tubular Condenser (.25 mf., 400 V.)
- 5 Resistor (47,000 ohms, ¼ watt)
- 6 Mica Condenser (110 mmf.)
- 7 Oscillator Transformer
- 8 Tubular Transformer (.05 mf., 200 V.)
- 9 1st I. F. Transformer
- 10 2nd I. F. Transformer
- 11 Resistor (2.2 megs., ¼ watt)
- 12 Mica Condenser (250 mmf.)
- 13 Resistor (27,000 ohms, ½ watt)
- 14 Volume Control (500,000 ohms)
- 15 Tubular Condenser (.01 mf., 200 V.)
- 16 Resistor (4.7 megs., ¼ watt)
- 17 Resistor (220,000 ohms, ¼ watt)
- 18 Tubular Condenser (.01 mf., 400 V.)
- 19 Mica Condenser (250 mmf.)
- 20 Resistor (470,000 ohms, ¼ watt)
- 21 Resistor (130 ohms, ½ watt)
- 22 Tubular Condenser (.04 mf., 400 V.)
- 23 Output Transformer..Part of Speaker
- 24 Speaker
- 25 Tubular Condenser (.04 mf., 400 V.)
- 26 Electrolytic Condenser (20-20 mf., 150 V.)
- 27 Field Coil ..Part of Speaker
- 28 Pilot Lamp
- 29 Line Resistor



I.F. 455 KC.

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

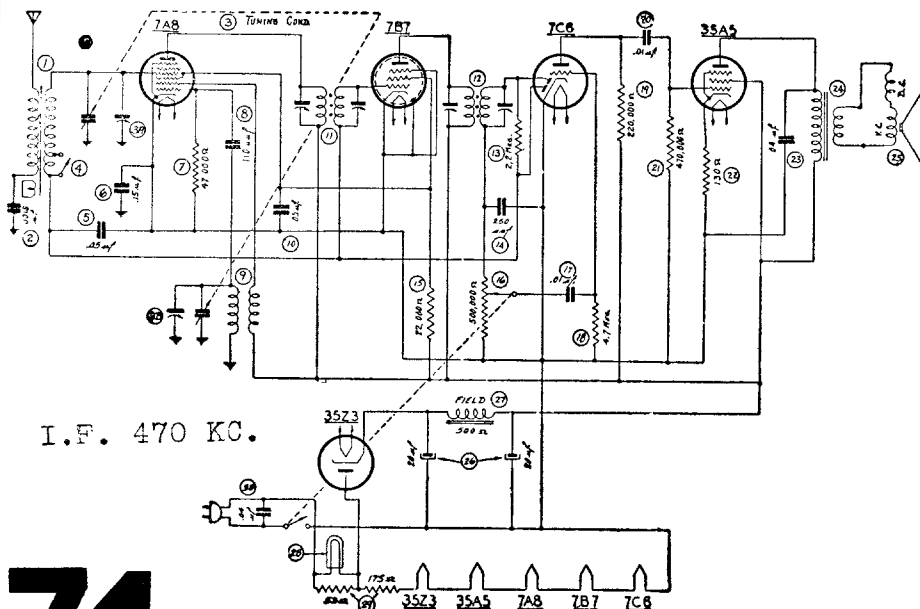


I.F. 470 KC.

PHILCO TRANSITONE MODELS PT-37 AND PT-53

Schem. No.	Description	Philco Part No.	Schem. No.	Description	Philco Part No.
1	Antenna Transformer	32-3233	19	Resistor (2.2 megohms, 1/4 watt)	33-522154
2	Tubular Condenser (.0015 mf., 200 v.)	30-4555S	20	Mica Condenser (250 mmf.)	61-0033
3	Tuning Condenser	31-2431	21	Resistor (8,200 ohms, 1/4 watt)	33-282334
4	Wave Switch	42-1497	22	Volume Control	33-5306
5	Tubular Condenser (.05 mf., 200 v.)	30-4519S	23	Tubular Condenser (.01 mf., 400 v.)	30-4572S
6	Tubular Condenser (.15 mf., 400 v.)	30-4600S	24	Resistor (4.7 megohm, 1/4 watt)	33-547154
7	Tubular Condenser (.05 mf., 200 v.)	30-4519S	25	Resistor (220,000 ohms, 1/4 watt)	33-522154
8	Resistor (220 ohms, 1/2 watt)	33-122336	26	Tubular Condenser (.01 mf., 200 v.)	30-4581S
9	Resistor (100,000 ohms, 1/4 watt)	33-410154	27	Resistor (470,000 ohms, 1/4 watt)	33-447154
10	Mica Condenser (250 mmf.)	61-0033	28	Electrolytic Condenser	30-2402
11	Short Wave Oscillator Trans.	32-3234	29	Resistor (130 ohms, 1/2 watt)	33-113336
12	BC Oscillator Transformer	32-3217	30	Tubular Condenser (.04 mf., 400 v.)	30-4119S
13	Dual Padding Condenser	31-6331	31	Output Trans.—Part of Speaker No.	36-1469
14	Mica Condenser (410 mmf.)	30-1089	32	Speaker	36-1469
15	Resistor (4700 ohms, 1/4 watt)	33-247134	33	Field Coil—Part of Speaker No.	36-1469
16	Tubular Condenser (.05 mf., 200 v.)	30-4519S	34	Pilot Lamp	34-2068
17	1st I. F. Transformer	32-3227	35	Line Resistor	33-3367
18	2nd I. F. Transformer	32-3150	36	Tubular Condenser (.04 mf., 400 v.)	30-4119S

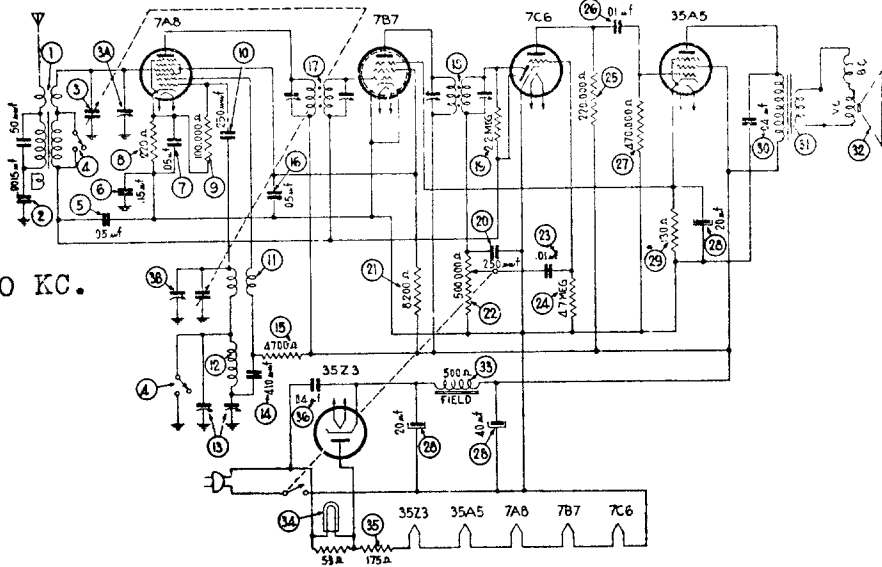
PHILCO TRANSITONE HOME RADIO MODEL PT-35



I.F. 470 KC.

Schem. No.	Description
1	Antenna Transformer
2	Tubular Condenser (.0015 mf., 200 v.)
3	Tuning Condenser
4	Switch
5	Tubular Condenser (.05 mf., 200 v.)
6	Tubular Condenser (.15 mf., 400 v.)
7	Resistor (47,000 ohms, 1/4 watt)
8	Mica Condenser (110 mmf.)
9	Oscillator Transformer
10	Tubular Condenser (.05 mf., 200 v.)
11	1st I. F. Transformer
12	2nd I. F. Transformer
13	Resistor (2.2 meg., 1/4 watt)
14	Mica Condenser (250 mmf.)
15	Resistor (22,000 ohms, 1/2 watt)
16	Volume Control (500,000 ohms)
17	Tubular Condenser (.01 mf., 200 v.)
18	Resistor (4.7 meg., 1/4 watt)
19	Resistor (220,000 ohms, 1/4 watt)
20	Tubular Condenser (.01 mf., 400 v.)
21	Resistor (470,000 ohms, 1/4 watt)
22	Resistor (130 ohms, 1/2 watt)
23	Tubular Condenser (.04 mf., 400 v.)
24	Output Transformer
25	Part of Speaker No.
26	Speaker
27	Electrolytic Condenser (20-20 mf., 150 v.)
28	Field Coil—Part of Speaker No.
29	Pilot Lamp
30	Line Resistor

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



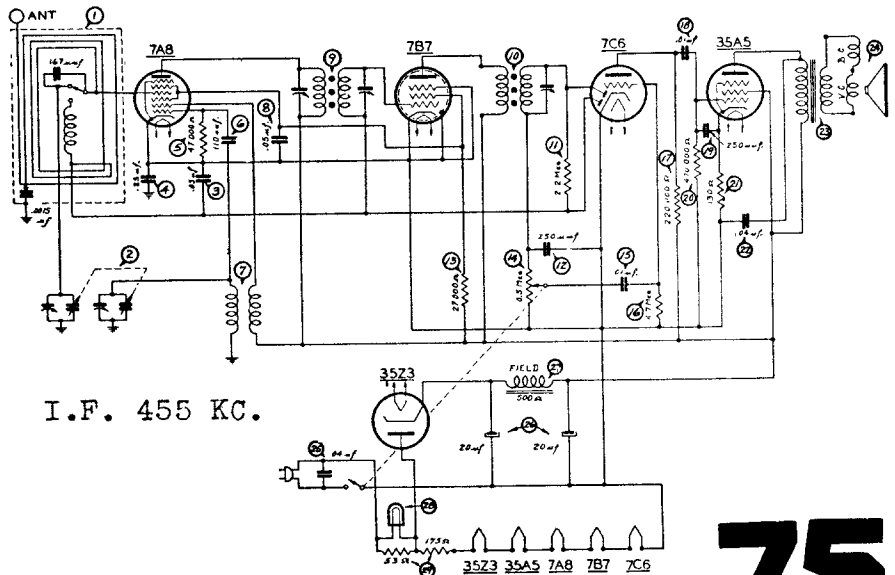
I.F. 470 KC.

PHILCO TRANSITONE MODEL PT-38

Schem. No.	Description	Philco Part No.	Schem. No.	Description	Philco Part No.
1	Antenna Transformer	32-3233	19	Resistor (2.2 megohms, 1/4 watt)	33-522154
2	Tubular Condenser (.0015 mf., 200 v.)	30-4555	20	Mica Condenser (250 mmf.)	61-0033
3	Tuning Condenser	31-2431	21	Resistor (8,200 ohms, 1/4 watt)	33-282334
4	Wave Switch	42-1497	22	Volume Control	33-5306
5	Tubular Condenser (.04 mf., 200 v.)	30-4519	23	Tubular Condenser (.01 mf., 400 v.)	30-4572
6	Tubular Condenser (.15 mf., 400 v.)	30-4600	24	Resistor (4.7 megohms, 1/4 watt)	33-547154
7	Tubular Condenser (.05 mf., 200 v.)	30-4519	25	Resistor (220,000 ohms, 1/4 watt)	33-522154
8	Resistor (220 ohms, 1/2 watt)	33-122336	26	Tubular Condenser (.01 mf., 400 v.)	30-4572
9	Resistor (100,000 ohms, 1/4 watt)	33-410154	27	Resistor (470,000 ohms, 1/4 watt)	33-447154
10	Mica Condenser (250 mmf.)	61-0033	28	Electrolytic Condenser	30-2402
11	Short Wave Oscillator Trans.	32-3234	29	Resistor (130 ohms, 1/2 watt)	33-113336
12	BC Oscillator Transformer	32-3217	30	Tubular Condenser (.04 mf., 400 v.)	30-4119
13	Dual Padding Condenser	31-6331	31	Output Trans.—Part of Speaker No.	36-1469
14	Mica Condenser (410 mmf.)	30-1089	32	Speaker	36-1469
15	Resistor (4700 ohms, 1/4 watt)	33-247134	33	Field Coil—Part of Speaker No.	36-1469
16	Tubular Condenser (.05 mf., 200 v.)	30-4519	34	Pilot Lamp	34-2068
17	1st I. F. Transformer	32-3327	35	Line Resistor	33-3367
18	2nd I. F. Transformer	32-3150	36	Tubular Condenser (.04 mf., 400 v.)	30-4119

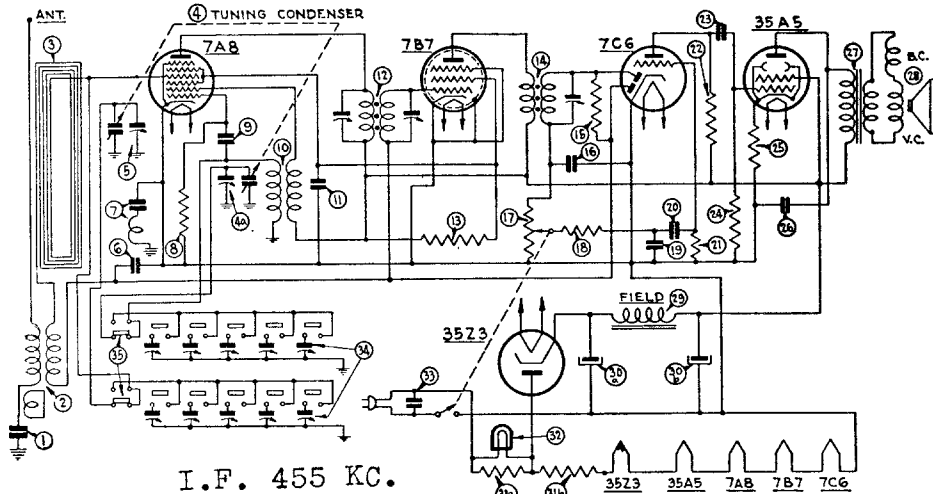
PHILCO TRANSITONE HOME RADIO MODELS PT-43 AND PT-55

Schem. No.	Description
1	Loop Antenna Assembly
2	Tubular Condenser
3	Tubular Condenser (.05 mf., 200 v.)
4	Tubular Condenser (.25 mf., 400 v.)
5	Resistor (47,000 ohms, 1/4 watt)
6	Mica Condenser (110 mmf.)
7	Oscillator Transformer
8	Tubular Condenser (.05 mf., 200 v.)
9	1st I. F. Transformer
10	2nd I. F. Transformer
11	Resistor (2.2 megs., 1/4 watt)
12	Mica Condenser (250 mmf.)
13	Resistor (27,000 ohms, 1/4 watt)
14	Volume Control (500,000 ohms)
15	Tubular Condenser (.01 mf., 200 v.)
16	Resistor (4.7 megs., 1/4 watt)
17	Resistor (220,000 ohms, 1/4 watt)
18	Tubular Condenser (.01 mf., 400 v.)
19	Mica Condenser (250 mmf.)
20	Resistor (470,000 ohms, 1/4 watt)
21	Resistor (130 ohms, 1/2 watt)
22	Tubular Condenser (.04 mf., 400 v.)
23	Output Transformer
24	Speaker
25	Tubular Condenser (.04 mf., 400 v.)
26	Electrolytic Condenser (20-20 mf., 150 v.)
27	Field Coil, Part of Speaker
28	Pilot Lamp
29	Line Resistor



I.F. 455 KC.

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

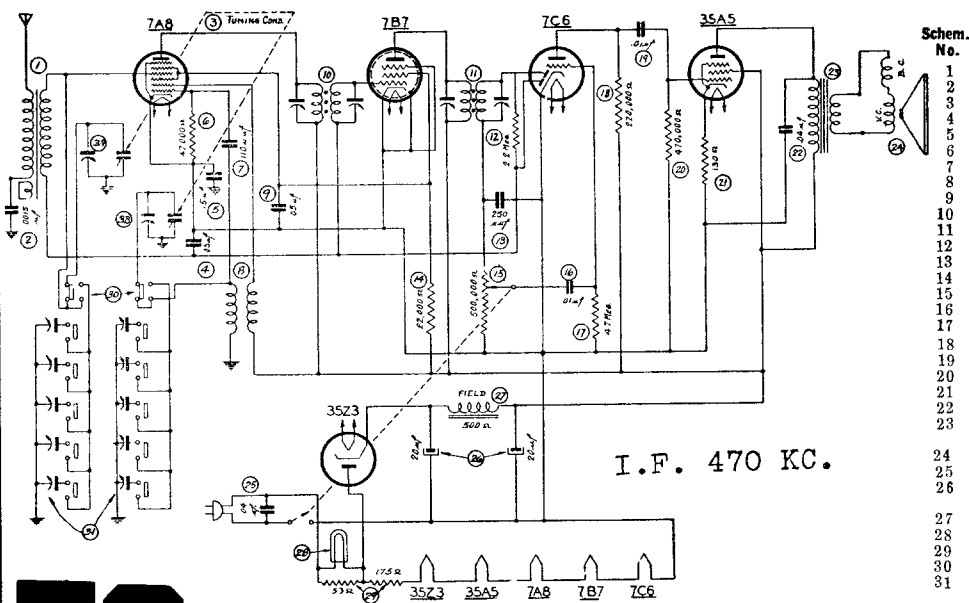


PHILCO TRANSITONE HOME RADIOS — MODELS PT-46 AND PT-48

Schem. No.	Description	Philco Part No.
1	Tubular Condenser (.0015 mf., 200 v.)	30-4555
2	Antenna Transformer	32-3394
3	Loop Antenna — Part of Cabinet and Loop Assy. PT-46	76-1015
	PT-48	76-1016
4	Tuning Condenser (PT-46 and PT-48)	31-2445
5	Padding Condenser	31-6344
6	Tubular Condenser (.1 mf., 200 v.)	30-4499
7	Condenser & Choke Assy.	76-1019
8	Resistor (22,000 ohms, ½ watt)	33-322154
9	Mica Condenser (110 mmf.)	30-1130
10	Oscillator Transformer	32-3152
11	Tubular Condenser (.05 mf., 200 v.)	30-4519
12	1st I. F. Transformer	32-3390
13	Resistor (22,000 ohms, ½ watt)	33-322334
14	2nd I. F. Transformer	32-3391
15	Resistor (2.2 meg., ½ watt)	33-522154
16	Mica Condenser (250 mmf.)	61-0033
17	Volume Control (500,000 ohms)	33-5306

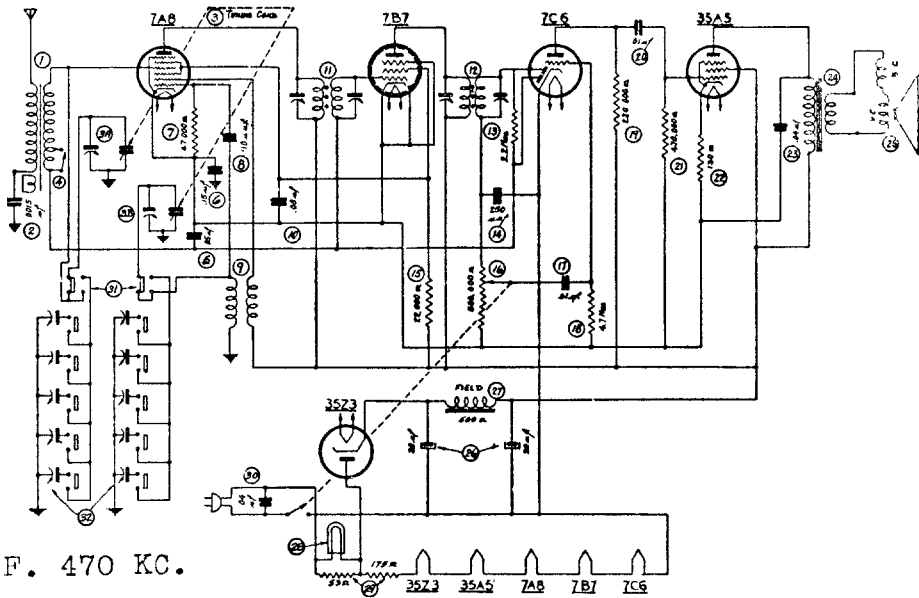
Schem. No.	Description	Philco Part No.
18	Resistor (47,000 ohms, ¼ watt)	33-347154
19	Mica Condenser (250 mmf.)	61-0033
20	Tubular Condenser (.01 mf., 200 v.)	30-4479
21	Resistor (4.7 meg., ¼ watt)	33-547154
22	Resistor (220,000 ohms, ¼ watt)	33-422154
23	Tubular Condenser (.01 mf., 400 v.)	30-4572
24	Resistor (470,000 ohms, ¼ watt)	33-447154
25	Resistor (130 ohms, ½ watt)	33-113336
26	Tubular Condenser (.04 mf., 400 v.)	30-4119
27	Output Transformer Part of Speaker No.	36-1469
28	Speaker	36-1469
29	Field Coil	Part of Speaker No. 36-1469
30	Electrolytic Condenser (20-20 mf., 150 v.)	30-2382
31	Line Resistor	33-3367
32	Pilot Lamp	34-2068
33	Tubular Condenser (.04 mf., 400 v.)	30-4119
34	Padding Condenser Strip	31-6324
35	Push Button Switch	42-1485

PHILCO TRANSITONE HOME RADIO MODELS PT-45 AND PT-47



Schem. No.	Description
1	Antenna Transformer
2	Tubular Condenser (.0015 mf., 200 v.)
3	Tuning Condenser
4	Tubular Condenser (.05 mf., 200 v.)
5	Tubular Condenser (.15 mf., 400 v.)
6	Resistor (47,000 ohms, ¼ watt)
7	Mica Condenser (110 mmf.)
8	Oscillator Transformer
9	Tubular Condenser (.05 mf., 200 v.)
10	1st I. F. Transformer
11	2nd I. F. Transformer
12	Resistor (2.2 meg., ½ watt)
13	Mica Condenser (250 mmf.)
14	Resistor (22,000 ohms, ½ watt)
15	Volume Control (500,000 ohms)
16	Tubular Condenser (.01 mf., 200 v.)
17	Resistor (4.7 meg., ¼ watt)
18	Resistor (220,000 ohms, ¼ watt)
19	Tubular Condenser (.01 mf., 400 v.)
20	Resistor (470,000 ohms, ¼ watt)
21	Resistor (130 ohms, ½ watt)
22	Tubular Condenser (.04 mf., 400 v.)
23	Output Transformer Part of Speaker No.
24	Speaker
25	Tubular Condenser (.04 mf., 400 v.)
26	Electrolytic Condenser (20-20 mf., 150 v.)
27	Field Coil Part of Speaker No.
28	Pilot Lamp
29	Line Resistor
30	Push Button Switch
31	Padding Condenser Strip

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



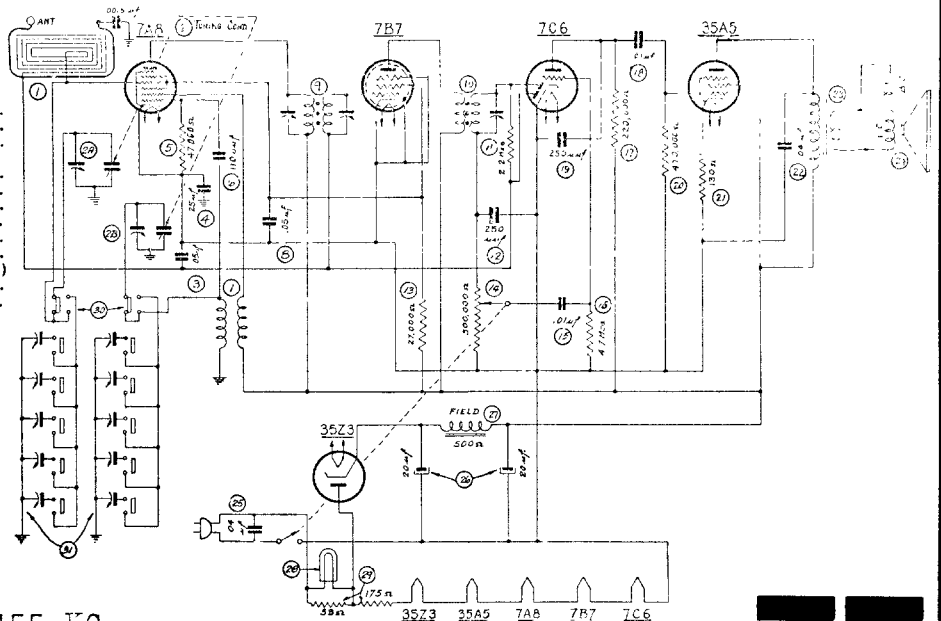
I.F. 470 KC.

TRANSITONE HOME RADIO MODELS PT-49 AND PT-51

Schem. No.	Description	Philco Part No.	Schem. No.	Description	Philco Part No.
1	Antenna Transformer	32-3168	18	Resistor (4.7 meg., 1/4 watt)	33-547154
2	Tubular Condenser (.0015 mf., 200 v.)	30-4555S	19	Resistor (220,000 ohms, 1/4 watt)	33-422154
3	Tuning Condenser	31-2428	20	Tubular Condenser (.01 mf., 400 v.)	30-4572S
4	Switch	42-1406	21	Resistor (470,000 ohms, 1/4 watt)	33-447154
5	Tubular Condenser (.05 mf., 200 v.)	30-4519S	22	Resistor (130 ohms, 1/2 watt)	33-113336
6	Tubular Condenser (.15 mf., 400 v.)	30-4505S	23	Tubular Condenser (.04 mf., 400 v.)	30-4119S
7	Resistor (47,000 ohms, 1/4 watt)	33-347154	24	Output Transformer	Part of Speaker No. 36-1469
8	Mica Condenser (110 mmf.)	30-1130	25	Speaker	36-1469
9	Oscillator Transformer	32-3167	26	Electrolytic Condenser (20-20 mf., 150 v.)	30-2382
10	Tubular Condenser (.05 mf., 200 v.)	30-4519S	27	Field Coil—Part of Speaker No.	36-1469
11	1st I. F. Transformer	32-3149	28	Pilot Lamp	34-2068
12	2nd I. F. Transformer	32-3150	29	Line Resistor	33-3367
13	Resistor (2.2 meg., 1/4 watt)	33-522154	30	Tubular Condenser (.04 mf., 400 v.)	30-4118S
14	Mica Condenser (250 mmf.)	61-0033	31	Push Button Switch	42-1485
15	Resistor (22,000 ohms, 1/2 watt)	33-322334	32	Padding Condenser Strip	31-6293
16	Volume Control (500,000 ohms)	33-5306			
17	Tubular Condenser (.01 mf., 200 v.)	30-4479S			

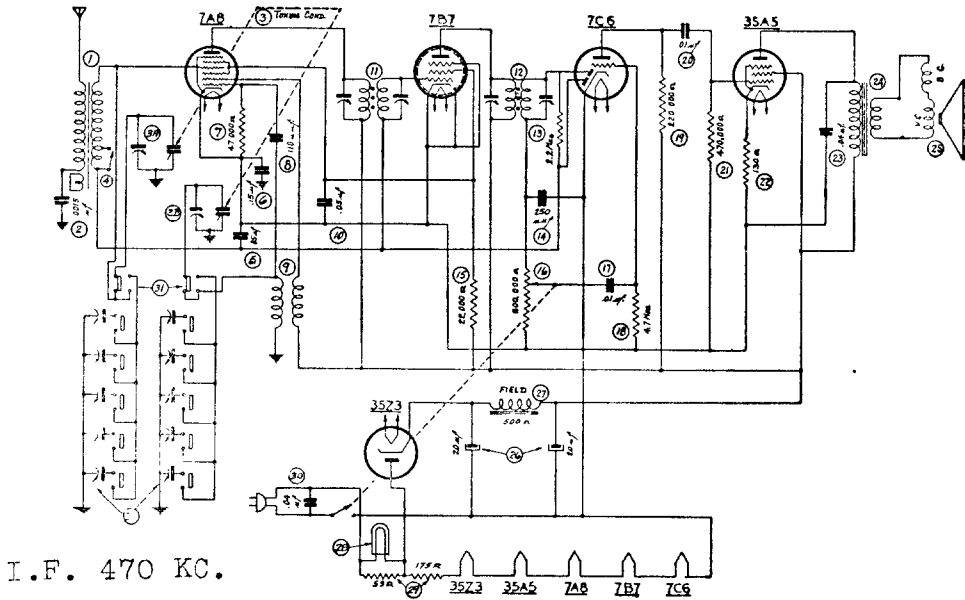
PHILCO TRANSITONE HOME RADIOS — MODELS PT-57 AND PT-65

Schem. No.	Description
1	Loop Antenna Assembly
2	Tuning Condenser
3	Tubular Condenser (.05 mf., 200 v.)
4	Tubular Condenser (.25 mf., 400 v.)
5	Resistor (47,000 ohms, 1/4 watt)
6	Mica Condenser (110 mmf.)
7	Oscillator Transformer
8	Tubular Condenser (.05 mf., 200 v.)
9	1st I. F. Transformer
10	2nd I. F. Transformer
11	Resistor (2.2 megs., 1/4 watt)
12	Mica Condenser (250 mmf.)
13	Resistor (27,000 ohms, 1/2 watt)
14	Volume Control (500,000 ohms)
15	Tubular Condenser (.01 mf., 200 v.)
16	Resistor (4.7 megs., 1/4 watt)
17	Resistor (220,000 ohms, 1/4 watt)
18	Tubular Condenser (.01 mf., 400 v.)
19	Mica Condenser (250 mmf.)
20	Resistor (470,000 ohms, 1/4 watt)
21	Resistor (130 ohms, 1/2 watt)
22	Tubular Condenser (.04 mf., 400 v.)
23	Output Transformer
24	Speaker
25	Tubular Condenser (.04 mf., 400 v.)
26	Electrolytic Condenser (20-20 mf., 150 v.)
27	Field Coil—Part of Speaker No.
28	Pilot Lamp
29	Line Resistor
30	Push Button Switch
31	Padding Condenser Strip



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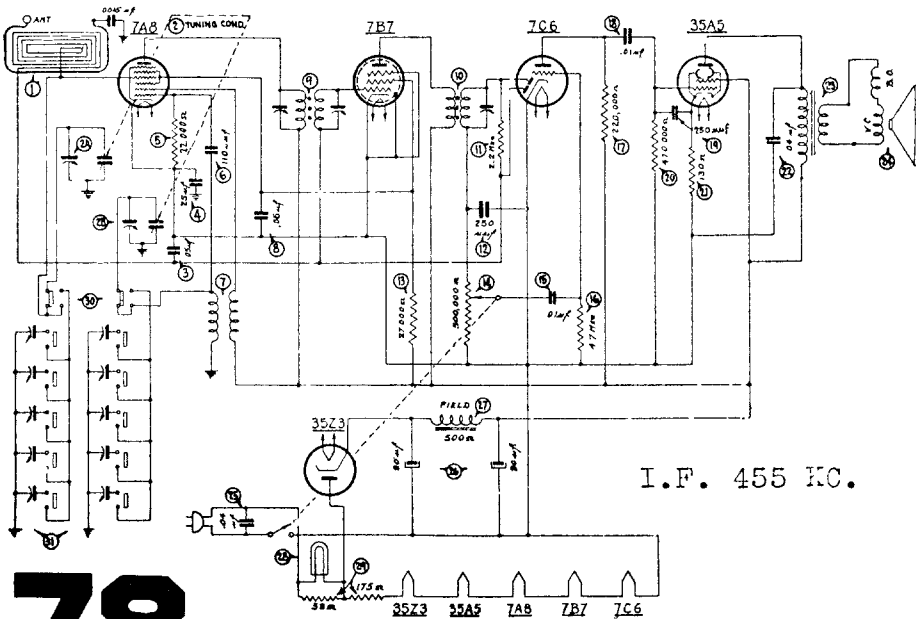
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



PHILCO TRANSITONE HOME RADIO MODEL PT-59

Schem. No.	Description	Philco Part No.	Schem. No.	Description	Philco Part No.
1	Antenna Transformer	32-3164	18	Resistor (4.7 meg., 1/4 watt)	33-547154
2	Tubular Condenser (.0015 mf., 200 v.)	30-45558	19	Resistor (220,000 ohms, 1/4 watt)	33-422154
3	Tuning Condenser	31-2135	20	Tubular Condenser (.01 mf., 400 v.)	30-45728
4	Switch	42-1406	21	Resistor (470,000 ohms, 1/4 watt)	33-447154
5	Tubular Condenser (.05 mf., 200 v.)	30-45198	22	Resistor (130 ohms, 1/2 watt)	33-113336
6	Tubular Condenser (.15 mf., 400 v.)	30-45058	23	Tubular Condenser (.4 mf., 400 v.)	30-41198
7	Resistor (47,000 ohms, 1/4 watt)	33-347154	24	Output Transformer	
8	Mica Condenser (110 mmf.)	30-1130		Part of Speaker No.	36-1469
9	Oscillator Transformer	32-3152	25	Speaker	36-1469
10	Tubular Condenser (.05 mf., 200 v.)	30-45198	26	Electrolytic Capacitor	
11	1st I. F. Transformer	32-3149		(20-20 mf., 150 v.)	30-2382
12	2nd I. F. Transformer	32-3150	27	Field Coil	
13	Resistor (2.2 meg., 1/4 watt)	33-522154		Part of Speaker, Part No.	36-1469
14	Mica Condenser (250 mmf.)	61-0033	28	Pilot Lamp	34-2068
15	Resistor (22,000 ohms, 1/2 watt)	33-322334	29	Line Resistor	33-3367
16	Volume Control (500,000 ohms)	33-5306	30	Tubular Condenser (.04 mf., 400 v.)	30-41198
17	Tubular Condenser (.01 mf., 200 v.)	30-44798			

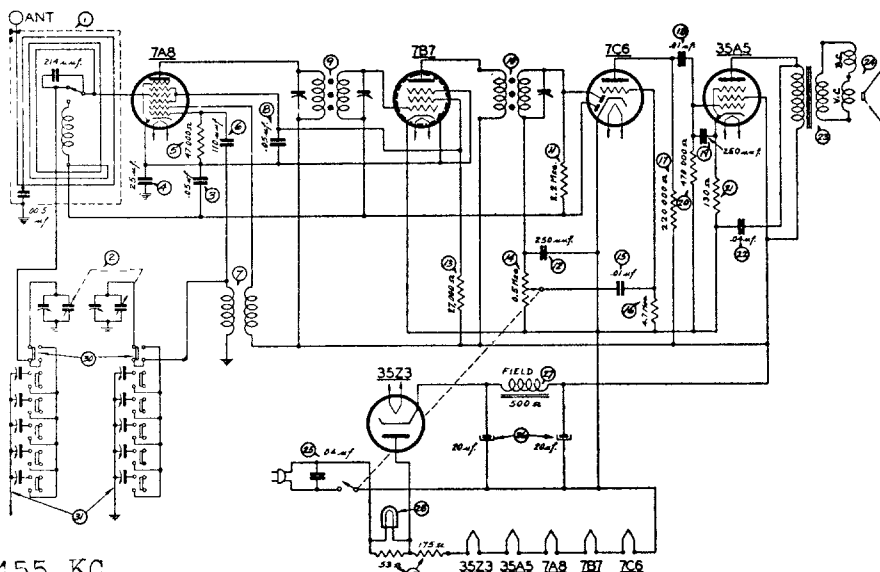
PHILCO TRANSITONE HOME RADIOS — MODEL PT-66



Schem. No.	Description
1	Loop Antenna Assembly
2	Tuning Condenser
3	Tubular Condenser (.05 mf., 200 v.)
4	Tubular Condenser (.25 mf., 400 v.)
5	Resistor (22,000 ohms, 1/4 watt)
6	Mica Condenser (110 mmf.)
7	Oscillator Transformer
8	Tubular Condenser (.05 mf., 200 v.)
9	1st I. F. Transformer
10	2nd I. F. Transformer
11	Resistor (2.2 megs., 1/4 watt)
12	Mica Condenser (250 mmf.)
13	Resistor (27,000 ohms, 1/2 watt)
14	Volume Control (500,000 ohms)
15	Tubular Condenser (.01 mf., 200 v.)
16	Resistor (4.7 megs., 1/4 watt)
17	Resistor (220,000 ohms, 1/4 watt)
18	Tubular Condenser (.01 mf., 400 v.)
19	Mica Condenser (250 mmf.)
20	Resistor (470,000 ohms, 1/4 watt)
21	Resistor (130 ohms, 1/2 watt)
22	Tubular Condenser (.04 mf., 400 v.)
23	Output Transformer
	Part of Speaker No.
24	Speaker
25	Tubular Condenser (.04 mf., 400 v.)
26	Electrolytic Capacitor
	(20-20 mf., 150 v.)
27	Field Coil—Part of Speaker No.
28	Pilot Lamp
29	Line Resistor
30	Push Button Switch
31	Padding Condenser Strip

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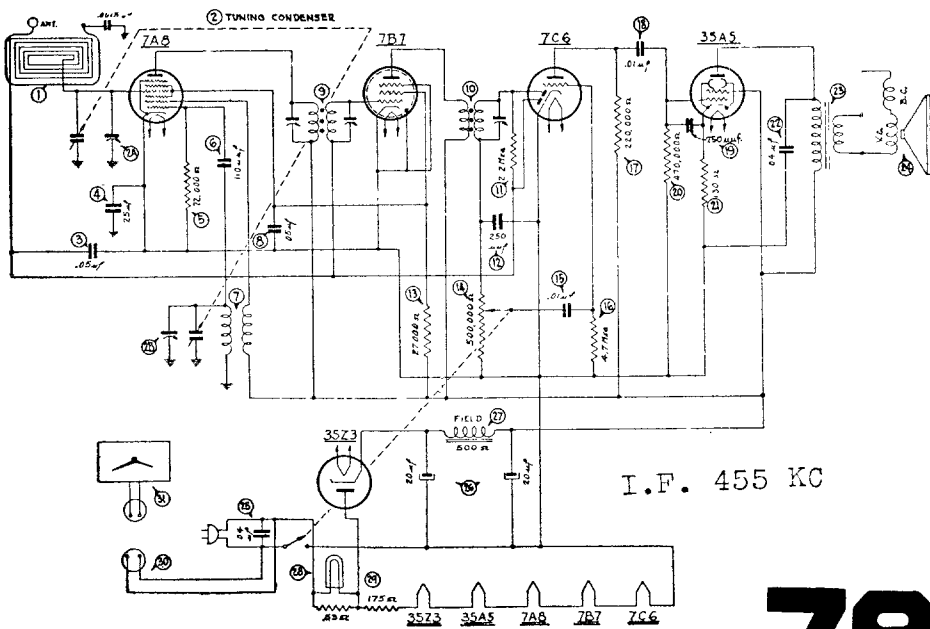
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PHILCO TRANSITONE HOME RADIO MODEL PT-67

Schem. No.	Description	Philco Part No.	Schem. No.	Description	Philco Part No.
1	Loop Antenna Assembly	38-9937	18	Tubular Capacitor (.01 mf., 400 v.)	30-4572S
2	Tuning Capacitor	31-2437	19	Mica Capacitor (250 mmf.)	61-0033
3	Tubular Capacitor (.05 mf., 200 v.)	30-4519S	20	Resistor (470,000 ohms, 1/4 watt)	33-447154
4	Tubular Capacitor (.25 mf., 400 v.)	30-4564S	21	Resistor (130 ohms, 1/2 watt)	33-113336
5	Resistor (47,000 ohms, 1/4 watt)	33-347154	22	Tubular Capacitor (.04 mf., 400 v.)	30-4119S
6	Mica Capacitor (110 mmf.)	30-1130	23	Output Transformer	
7	Oscillator Transformer	32-3152		Part of Speaker No. 36-1469	
8	Tubular Capacitor (.05 mf., 200 v.)	30-4519S	24	Speaker	36-1469
9	1st I. F. Transformer	32-3177	25	Tubular Capacitor (.04 mf., 400 v.)	30-4119S
10	2nd I. F. Transformer	32-3178	26	Electrolytic Capacitor	
11	Resistor (2.2 megs., 1/4 watt)	33-522154		(20-20 mf., 150 v.)	30-2382
12	Mica Capacitor (250 mmf.)	61-0033	27	Field Coil	Part of Speaker No. 36-1469
13	Resistor (27,000 ohms, 1/2 watt)	33-327334	28	Pilot Lamp	34-2068
14	Volume Control (500,000 ohms)	33-5306	29	Line Resistor	33-3367
15	Tubular Capacitor (.01 mf., 200 v.)	30-4479S	30	Push Button Switch	42-1485
16	Tubular Capacitor (.01 mf., 200 v.)	33-547154	31	Padding Capacitor Strip	31-6324
17	Resistor (4.7 megs., 1/4 watt)	33-422154			

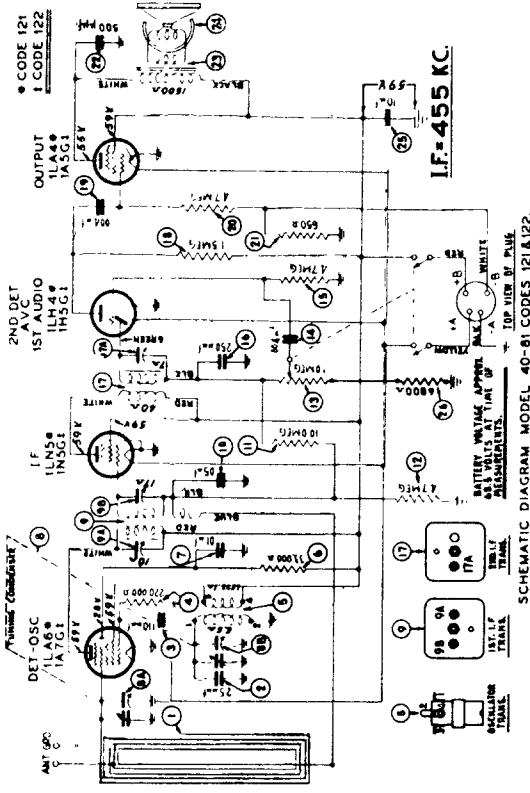
PHILCO TRANSITONE HOME RADIO — MODEL PT-69

Schem. No.	Description
1	Loop Antenna Assembly
2	Tuning Capacitor
3	Tubular Capacitor (.05 mf., 200 v.)
4	Tubular Capacitor (.25 mf., 400 v.)
5	Resistor (22,000 ohms, 1/4 watt)
6	Mica Capacitor (110 mmf.)
7	Oscillator Transformer
8	Tubular Capacitor (.05 mf., 200 v.)
9	1st I. F. Transformer
10	2nd I. F. Transformer
11	Resistor (2.2 megs., 1/4 watt)
12	Mica Capacitor (250 mmf.)
13	Resistor (27,000 ohms, 1/2 watt)
14	Volume Control (500,000 ohms)
15	Tubular Capacitor (.01 mf., 200 v.)
16	Resistor (4.7 megs., 1/4 watt)
17	Resistor (220,000 ohms, 1/4 watt)
18	Tubular Capacitor (.01 mf., 400 v.)
19	Mica Capacitor (250 mmf.)
20	Resistor (470,000 ohms, 1/4 watt)
21	Resistor (130 ohms, 1/2 watt)
22	Tubular Capacitor (.04 mf., 400 v.)
23	Output Transformer
	Part of Speaker No.
24	Speaker
25	Tubular Capacitor (.04 mf., 400 v.)
26	Electrolytic Capacitor
	(20-20 mf., 150 v.)
27	Field Coil
	Part of Speaker No.
28	Pilot Lamp
29	Line Resistor
30	Connector Cable
31	Complete Clock
	(For 50 Cycle operation) ...
	(For 60 Cycle operation) ...



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MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



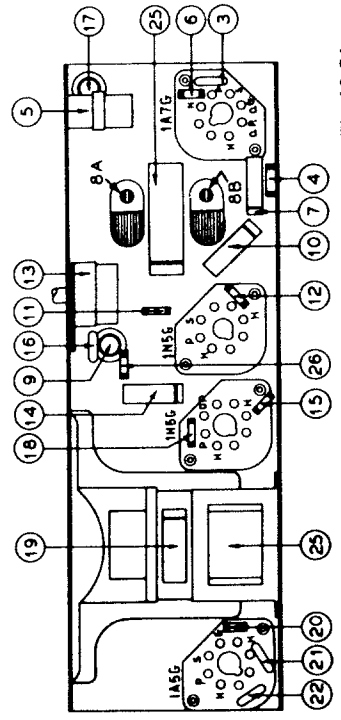
SCHEMATIC DIAGRAM MODEL 40-81 CODES 121 & 122

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
1	Loop Assembly (Part of Cabinet)	10	1st I. F. Transformer Assembly
2	Mica Condenser (15 m.mfd.)	11	Tubular Condenser (.05 mfd.)
3	Mica Condenser (110 m.mfd.)	12	Resistor (10.0 meg., 1/2 watt)
4	Resistor (220,000 ohms, 1/2 watt)	13	Resistor (4.7 meg., 1/2 watt)
5	Oscillator Transformer (Broadcast)	14	Tubular Condenser (.004 mfd.)
6	Resistor (220,000 ohms, 1/2 watt)	15	Tubular Condenser (.004 mfd.)
7	Resistor (33,000 ohms, 1/2 watt)	16	Mica Condenser (280 m.mfd.)
8	Tubular Condenser (.01 mfd.)	17	2nd I. F. Transformer Assembly
9	Resistor (1.0 meg., 1/2 watt)	18	Resistor (1.8 meg., 1/2 watt)
10	Resistor (4.7 meg., 1/2 watt)	19	Tubular Condenser (.004 mfd.)
11	Resistor (4.7 meg., 1/2 watt)	20	Resistor (4.7 meg., 1/2 watt)
12	Resistor (850 ohms, 1/2 watt)	21	Resistor (850 ohms, 1/2 watt)
13	Mica Condenser (500 m.mfd.)	22	Mica Condenser (500 m.mfd.)
14	Output Transformer	23	Output Transformer
15	Cone and Voice Coil Assembly	24	Cone and Voice Coil Assembly
16	Electrolytic Condenser (10 mf., 150 V.)	25	Electrolytic Condenser (10 mf., 150 V.)
17	Resistor (6600 ohms, 1/2 watt)	26	Resistor (6600 ohms, 1/2 watt)
18	Tuning Condenser Assembly	27	Tuning Condenser Assembly

PHILCO

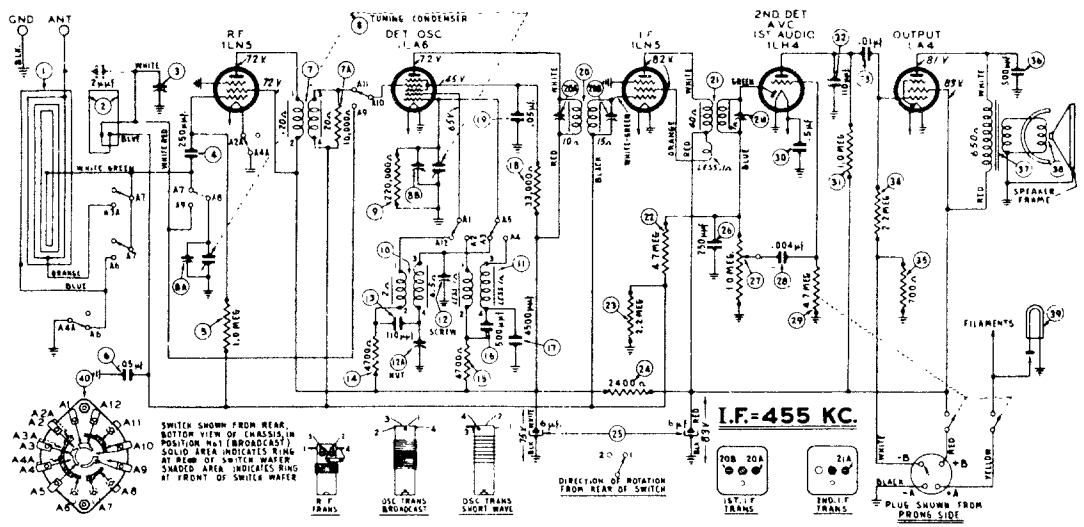
Models 40-81, Codes 121, 122

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
1	Loop Assembly (Part of Cabinet)	10	1st I. F. Transformer Assembly
2	Mica Condenser (15 m.mfd.)	11	Tubular Condenser (.05 mfd.)
3	Mica Condenser (110 m.mfd.)	12	Resistor (10.0 meg., 1/2 watt)
4	Resistor (220,000 ohms, 1/2 watt)	13	Resistor (4.7 meg., 1/2 watt)
5	Oscillator Transformer (Broadcast)	14	Tubular Condenser (.004 mfd.)
6	Resistor (220,000 ohms, 1/2 watt)	15	Tubular Condenser (.004 mfd.)
7	Resistor (33,000 ohms, 1/2 watt)	16	Mica Condenser (280 m.mfd.)
8	Tubular Condenser (.01 mfd.)	17	2nd I. F. Transformer Assembly
9	Resistor (1.0 meg., 1/2 watt)	18	Resistor (1.8 meg., 1/2 watt)
10	Resistor (4.7 meg., 1/2 watt)	19	Tubular Condenser (.004 mfd.)
11	Resistor (4.7 meg., 1/2 watt)	20	Resistor (4.7 meg., 1/2 watt)
12	Resistor (850 ohms, 1/2 watt)	21	Resistor (850 ohms, 1/2 watt)
13	Mica Condenser (500 m.mfd.)	22	Mica Condenser (500 m.mfd.)
14	Output Transformer	23	Output Transformer
15	Cone and Voice Coil Assembly	24	Cone and Voice Coil Assembly
16	Electrolytic Condenser (10 mf., 150 V.)	25	Electrolytic Condenser (10 mf., 150 V.)
17	Resistor (6600 ohms, 1/2 watt)	26	Resistor (6600 ohms, 1/2 watt)
18	Tuning Condenser Assembly	27	Tuning Condenser Assembly



PART LOCATIONS, UNDERSIDE OF CHASSIS, MODEL 40-81

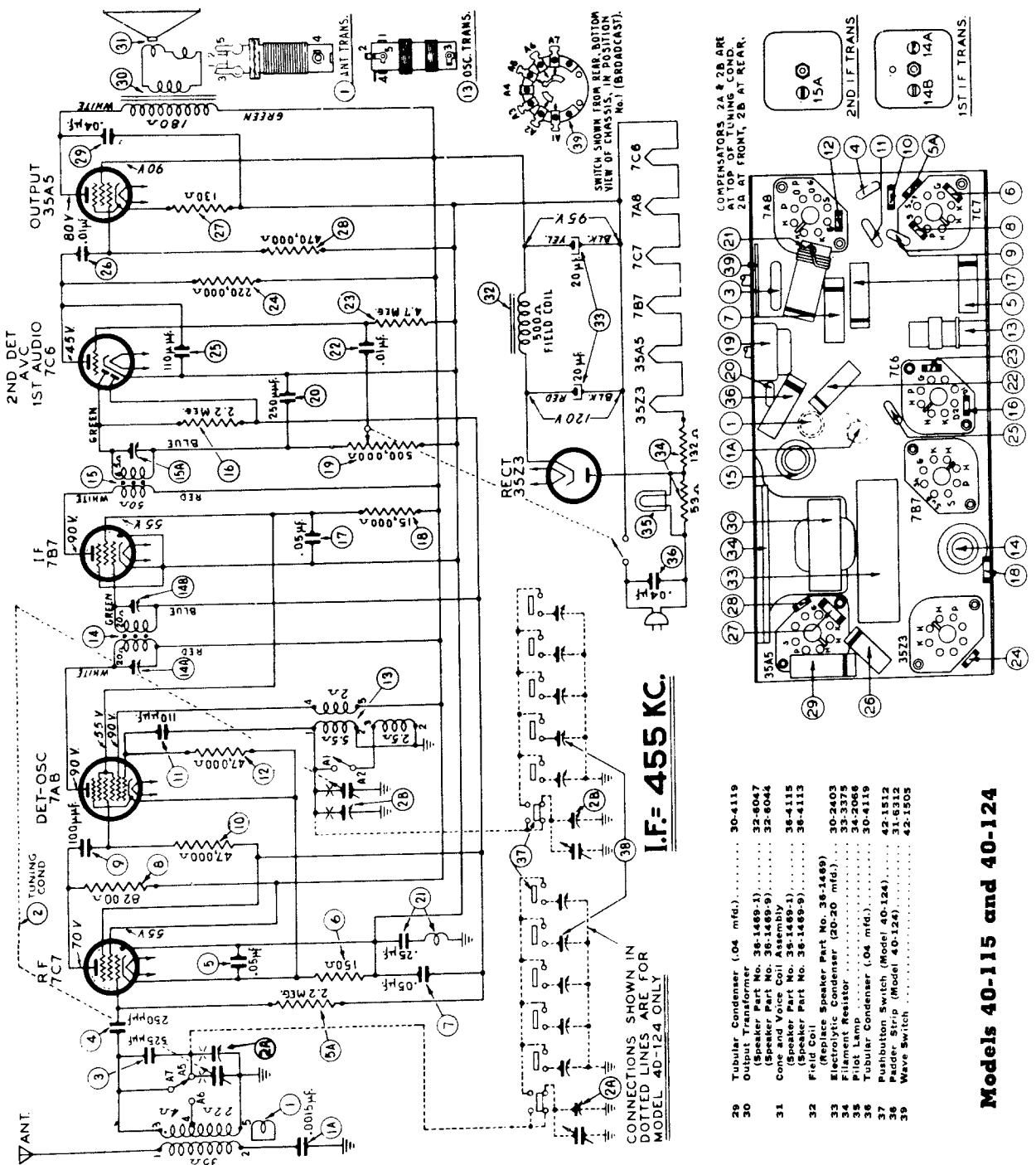
Model 40-88, Code 121



PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
1	Loop Assembly (Broadcast)	10	1st I. F. Transformer Assembly
2	Loop Assembly (Short Wave)	11	Tubular Condenser (.05 mfd.)
3	Compensator	12	Resistor (10.0 meg., 1/2 watt)
4	Mica Condenser (250 m.mfd.)	13	Resistor (4.7 meg., 1/2 watt)
5	Resistor (10,000 ohms, 1/2 watt)	14	Tubular Condenser (.004 mfd.)
6	Tubular Condenser (.05 mfd.)	15	Tubular Condenser (.004 mfd.)
7	R. F. Transformer Assembly	16	Mica Condenser (280 m.mfd.)
7A	Resistor (10,000 ohms, 1/2 watt)	17	2nd I. F. Transformer Assembly
8	Tuning Condenser Assembly	18	Resistor (1.8 meg., 1/2 watt)
9	Resistor (220,000 ohms, 1/2 watt)	19	Tubular Condenser (.004 mfd.)
10	Oscillator Transformer (Broadcast)	20	Resistor (4.7 meg., 1/2 watt)
11	Oscillator Transformer (Short Wave)	21	Resistor (850 ohms, 1/2 watt)
12	Compensator	22	Mica Condenser (500 m.mfd.)
13	Mica Condenser (110 m.mfd.)	23	Output Transformer
14	Resistor (4700 ohms, 1/2 watt)	24	Cone and Voice Coil Assembly
15	Resistor (4700 ohms, 1/2 watt)	25	Electrolytic Condenser (10 mf., 150 V.)
16	Mica Condenser (500 m.mfd.)	26	Resistor (6600 ohms, 1/2 watt)
17	Mica Condenser (4500 m.mfd.)	27	Tuning Condenser Assembly
18	Resistor (33,000 ohms, 1/2 watt)	28	Resistor (2.2 meg., 1/2 watt)
19	Tubular Condenser (.05 mfd.)	29	Resistor (700 ohms, 1/2 watt)
20	1st I. F. Transformer Assembly	30	Mica Condenser (500 m.mfd.)
21	2nd I. F. Transformer Assembly	31	Output Transformer
22	Resistor (4.7 meg., 1/2 watt)	32	Cone and Voice Coil Assembly
23	Resistor (2400 ohms, 1/2 watt)	33	Speaker Part No. 36-1482-3
24	Resistor (2400 ohms, 1/2 watt)	34	Wave Switch
25	Electrolytic Condenser (8.6 mf., 150 V.)	35	Resistor (2.2 meg., 1/2 watt)
26	Resistor (6600 ohms, 1/2 watt)	36	Resistor (700 ohms, 1/2 watt)
27	Tuning Condenser Assembly	37	Mica Condenser (500 m.mfd.)
28	Tubular Condenser (.004 mfd.)	38	Output Transformer
29	Resistor (4.7 meg., 1/2 watt)	39	Cone and Voice Coil Assembly
30	Tubular Condenser (.5 mfd.)	40	Wave Switch
31	Resistor (1.0 meg., 1/2 watt)		
32	Mica Condenser (110 m.mfd.)		
33	Tubular Condenser (.01 mfd.)		
34	Resistor (2.2 meg., 1/2 watt)		
35	Resistor (700 ohms, 1/2 watt)		
36	Mica Condenser (500 m.mfd.)		
37	Output Transformer		
38	Cone and Voice Coil Assembly		
39	Speaker Part No. 36-1482-3		
40	Wave Switch		

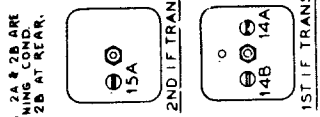
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MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

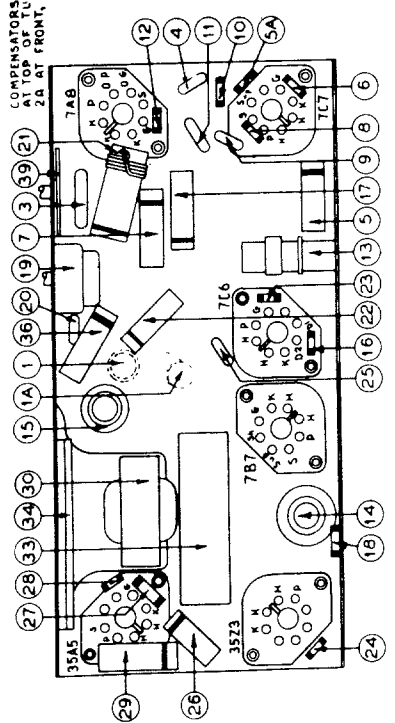


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CONNECTIONS SHOWN IN DOTTED LINES ARE FOR MODEL 40-124 ONLY



COMPENSATORS 2A & 2B ARE 91° TOP OF TUNING COND. 2A AT FRONT, 2B AT REAR.



SCHE. No.	DESCRIPTION	PART No.
1	Antenna Transformer (Model 40-115).....	32-3303
	Antenna Transformer (Model 40-124).....	32-3321
1A	Tubular Condenser (.0015 mfd.).....	30-4555
2	Tuning Condenser (Model 40-115).....	31-2425
	Tuning Condenser (Model 40-124).....	31-2426
3	Mica Condenser (525 mmfd.).....	30-1142
4	Mica Condenser (250 mmfd.).....	31-0033
5	Tubular Condenser (.05 mfd.).....	30-4519
5A	Resistor (2.2 meg., 1/2 watt).....	33-522339
6	Resistor (150 ohms, 1/2 watt).....	33-115336
7	Tubular Condenser (.05 mfd.).....	30-4519
8	Resistor (8200 ohms, 1/2 watt).....	33-282339
9	Mica Condenser (100 mmfd.).....	30-1128
10	Resistor (47,000 ohms, 1/2 watt).....	33-347339
11	Mica Condenser (110 mmfd.).....	30-1130
12	Resistor (47,000 ohms, 1/2 watt).....	33-347339
13	Oscillator Trans. (Model 40-115).....	32-3255

SCHE. No.	DESCRIPTION	PART No.
14	1st I. F. Transformer Assembly.....	32-3237
15	2nd I. F. Transformer Assembly.....	32-3238
16	Resistor (2.2 meg., 1/2 watt).....	33-522339
17	Tubular Condenser (.05 mfd.).....	30-4519
18	Resistor (15,000 ohms, 1/2 watt).....	33-315339
19	Volume Control and On-Off Switch.....	33-5306
20	Mica Condenser (250 mmfd.).....	30-1074
21	Choke and Condenser Assembly (.25 mfd.).....	38-9985
22	Tubular Condenser (.05 mfd.).....	30-4479
23	Resistor (4.7 meg., 1/2 watt).....	33-547339
24	Resistor (220,000 ohms, 1/2 watt).....	33-422339
25	Mica Condenser (110 mmfd.).....	30-1130
26	Tubular Condenser (.01 mfd.).....	30-4572
27	Resistor (130 ohms, 1/2 watt).....	33-115336
28	Resistor (470,000 ohms, 1/2 watt).....	33-447339

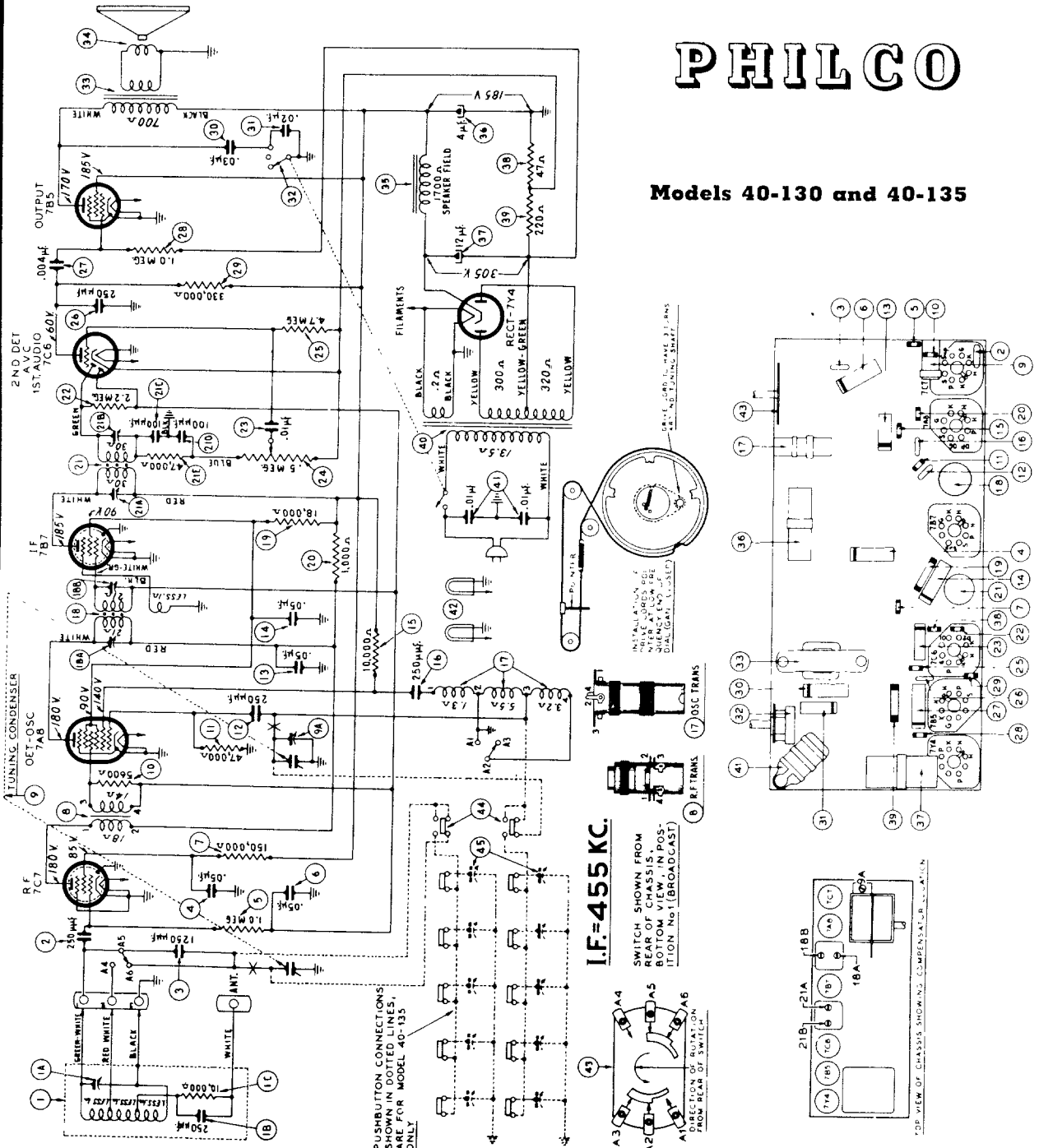
- 29 Tubular Condenser (.04 mfd.)..... 30-4119
- 30 Oscillator Trans. (Model 40-124)..... 32-3321
- 31 Speaker Part No. 38-1489-1)..... 32-6047
- Speaker Part No. 38-1489-9)..... 32-6044
- 32 Cone and Voice Coil Assembly..... 32-6044
- Speaker Part No. 38-1489-1)..... 36-4115
- Speaker Part No. 38-1489-9)..... 36-4115
- 33 Filament Resistor..... 30-2403
- (Replics Speaker Part No. 38-1489)..... 33-3375
- 34 Filament Resistor..... 33-3375
- 35 Pilot Lamp..... 34-2066
- 36 Tubular Condenser (.04 mfd.)..... 30-4119
- 37 Pushbutton Switch (Model 40-124)..... 42-1512
- 38 Pilot Lamp..... 31-6312
- 39 Wave Switch..... 42-1505

Models 40-115 and 40-124

PHILCO

PHILCO

Models 40-130 and 40-135



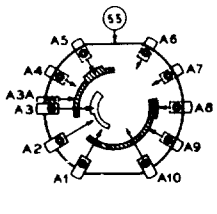
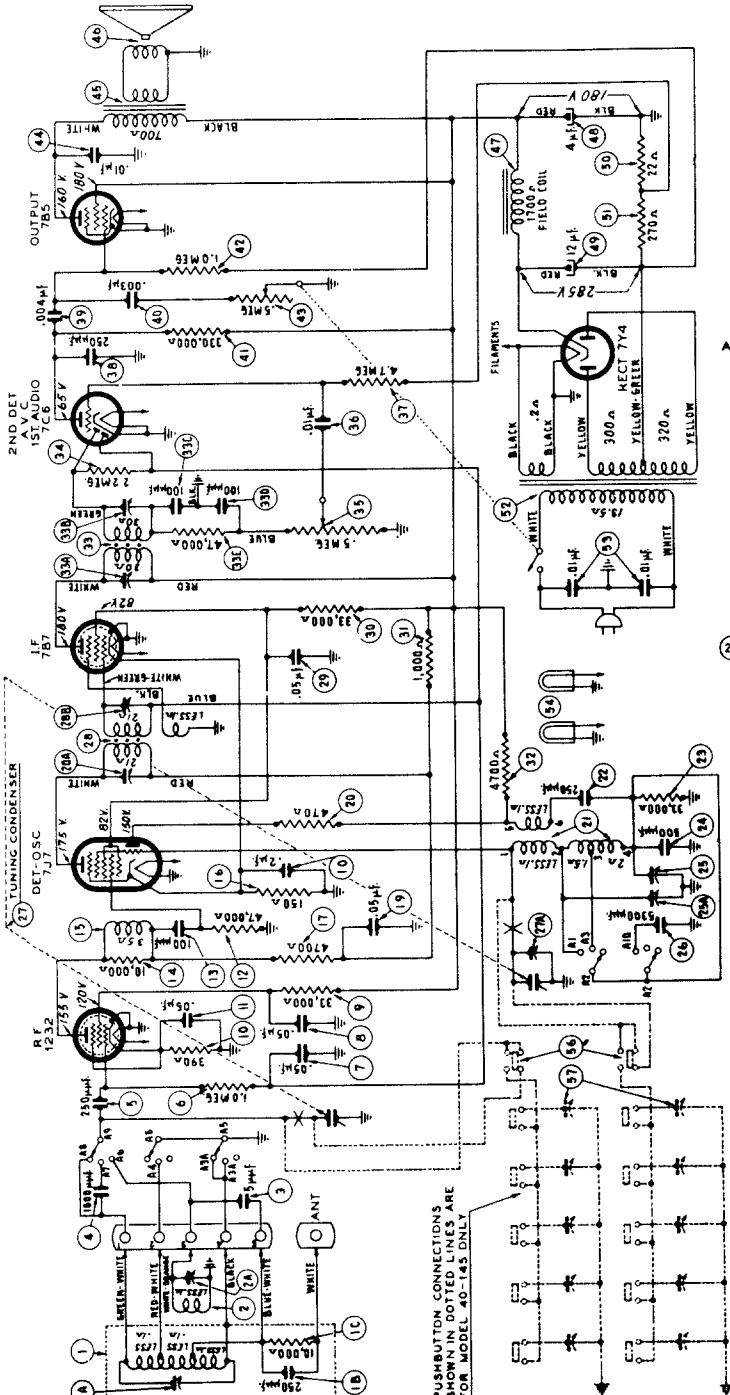
SCHE. No.	DESCRIPTION	PART No.
1	Loon Assembly	38-9891
1A	Compensator	31-6318
1B	Mica Cond. (.250 mmd.)	61-0033
1C	Resistor (10,000 ohms, 1/2 watt)	33-3140339
2	Mica Cond. (.250 mmd.)	61-0033
3	Mica Cond. (.250 mmd.)	61-0033
4	Tubular Cond. (.05 mfd.)	30-4518
5	Resistor (1.0 meg., 1/2 watt)	33-510339
6	Tubular Cond. (.05 mfd.)	33-4518
7	Resistor (150,000 ohms, 1/2 watt)	33-415339
8	R. F. Transformer	32-3283
9	Tuning Condenser	32-3210
10	Resistor (5000 ohms, 1/2 watt)	33-256339
11	Resistor (47,000 ohms, 1/2 watt)	33-347339
12	Mica Cond. (.250 mmd.)	61-0033
13	Tubular Cond. (.05 mfd.)	30-4518
14	Tubular Cond. (.05 mfd.)	30-4518
15	Resistor (10,000 ohms, 1/2 watt)	33-3140339
16	Mica Cond. (.250 mmd.)	61-0033
17	Oscillator Transformer	32-3212
18	1st I. F. Trans. Assy.	33-310339
19	Resistor (18,000 ohms, 1 watt)	33-318439
20	Resistor (1,000 ohms, 1/2 watt)	33-210339
21	2nd I. F. Trans. Assy.	32-3281

22	Resistor (2.2 meg., 1/2 watt)	33-522339
23	Tubular Cond. (.01 mfd.)	30-4578
24	Volume Control (.5 meg.)	33-5332
25	Resistor (4.7 meg., 1/2 watt)	33-547339
26	Mica Cond. (.250 mmd.)	61-0033
27	Tubular Cond. (.004 mfd.)	30-4578
28	Resistor (1.0 meg., 1/2 watt)	33-510339
29	Resistor (350,000 ohms, 1/2 watt)	33-433339
30	Tubular Cond. (.03 mfd.)	30-4449
31	Tubular Cond. (.02 mfd.)	30-4481
32	Tone Control and On-Off Switch	42-1820
33	Output Transformer	32-8063
34	Cone and Voice Coil Assy. (Spiral Part No. 36-1478-3)	36-4085
35	Field Co. (Replace Spkr. Part No. 36-1478)	30-2401
36	Electrolytic Cond. (4 mfd., 400 V.)	33-2409
37	Resistor (47 ohms, 1/2 watt)	33-047331
38	Resistor (220 ohms, 1 watt)	33-122431
39	Power Trans. (115 V., 50-60 cycles)	32-8064
40	Bakelite Cond. (.01-.01 mfd.)	3903-00
41	Pilot Lamps	34-2084
42	Wave Switch	42-1484
43	Pushbutton Switch (Model 40-135 only)	42-1528
44	Padcer Strip (Model 40-135 only)	31-6315
45	Resistor (1,000 ohms, 1/2 watt)	33-210339

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

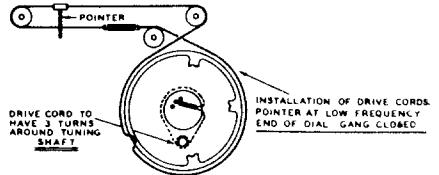
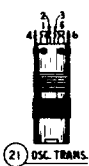
PHILCO

Models 40-140 and 40-145



SWITCH SHOWN FROM REAR OF CHASSIS, BOTTOM VIEW, IN POSITION No. 1 BDCAST. SHADED AREA INDICATES RING AT FRONT OF SWITCH WAFER. UNSHADED AREA INDICATES RING AT REAR OF SWITCH WAFER.

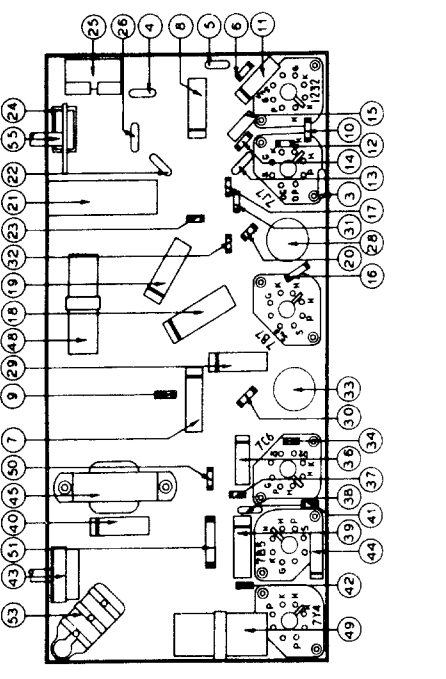
DIRECTION OF ROTATION FROM REAR OF SWITCH



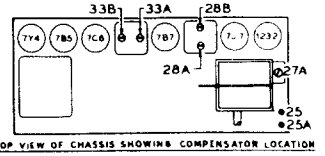
PUSHBUTTON CONNECTIONS SHOWN IN DOTTED LINES ARE FOR MODEL 40-145 ONLY

1	Loop Assembly (Broadcast)	36-9892
1A	Compensator	31-8318
1B	Mica Cond. (250 mmfd.)	61-0033
1C	Resistor (10,000 ohms, 1/2 watt)	33-310339
2	Loop Assembly (Short Wave)	36-9893
2A	Compensator	31-6320
2B	Mica Cond. (5 mmfd.)	61-0033
2C	Mica Cond. (250 mmfd.)	61-0033
2D	Mica Cond. (100 mmfd.)	61-0033
3	Resistor (1.0 meg., 1/2 watt)	33-510339
4	Tubular Cond. (.05 mfd.)	30-4518
5	Resistor (33,000 ohms, 1/2 watt)	33-333339
6	Resistor (100 ohms, 1/2 watt)	33-10633
7	Tubular Cond. (.05 mfd.)	30-4518
8	Resistor (47,000 ohms, 1/2 watt)	33-347339
9	Mica Cond. (100 mmfd.)	30-1128
10	Resistor (10,000 ohms, 1/2 watt)	33-310339
11	R. F. Transformer	32-3194
12	Resistor (150 ohms, 1/2 watt)	33-153339
13	Resistor (4700 ohms, 1/2 watt)	33-247339
14	Tubular Cond. (.2 mfd.)	30-4518
15	Tubular Cond. (.05 mfd.)	30-4518
16	Resistor (470 ohms, 1/2 watt)	33-147339
17	Oscillator Transformer	32-3195
18	Mica Cond. (250 mmfd.)	61-0033
19	Resistor (33,000 ohms, 1/2 watt)	33-333339
20	Silver Mica Cond. (500 mmfd.)	30-1138
21	Compensator (2 section)	30-6317
22	Mica Cond. (5300 mmfd.)	30-1134

28	1st I. F. Trans. Assy.	32-3210
29	Tubular Cond. (.05 mfd.)	30-4518
30	Resistor (33,000 ohms, 1/2 watt)	33-333339
31	Resistor (5,000 ohms, 1/2 watt)	33-210339
32	Resistor (4700 ohms, 1/2 watt)	33-247339
33	2nd I. F. Trans. Assy.	32-3211
34	Resistor (2.2 meg., 1/2 watt)	33-522339
35	Volume Control (.5 meg.)	33-5319
36	Tubular Cond. (.01 mfd.)	30-4572
37	Resistor (4.7 meg., 1/2 watt)	33-547339
38	Mica Cond. (250 mmfd.)	61-0033
39	Tubular Cond. (.004 mfd.)	30-4578
40	Tubular Cond. (.003 mfd.)	30-4580
41	Resistor (330,000 ohms, 1/2 watt)	33-433339
42	Resistor (1.0 meg., 1/2 watt)	33-103339
43	Tone Control (.8 meg.) & On-Off Switch	33-5333
44	Tubular Cond. (.01 mfd.)	30-4572
47	Field Coil (Replace Spkr. Part No. 36-1478)	30-2401
48	Electrolytic Cond. (12 mfd., 400 V.)	30-2409
49	Resistor (22 ohms, 1/2 watt)	33-022331
50	Resistor (270 ohms, 1 watt)	33-127431
51	Resistor (115 V., 50-60 cycles)	32-8064
52	Power Transformer	3903-000
53	Line Condenser (.01-.01 mfd.)	34-2064
54	Pilot Lamps	42-1495
55	Wave Switch	42-1528
56	Push Button Switch (Model 40-145 only)	31-6316
57	Padder Strip (Model 40-145 only)	31-6316



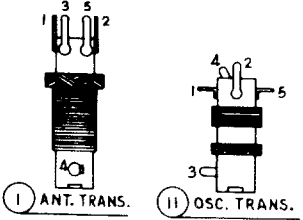
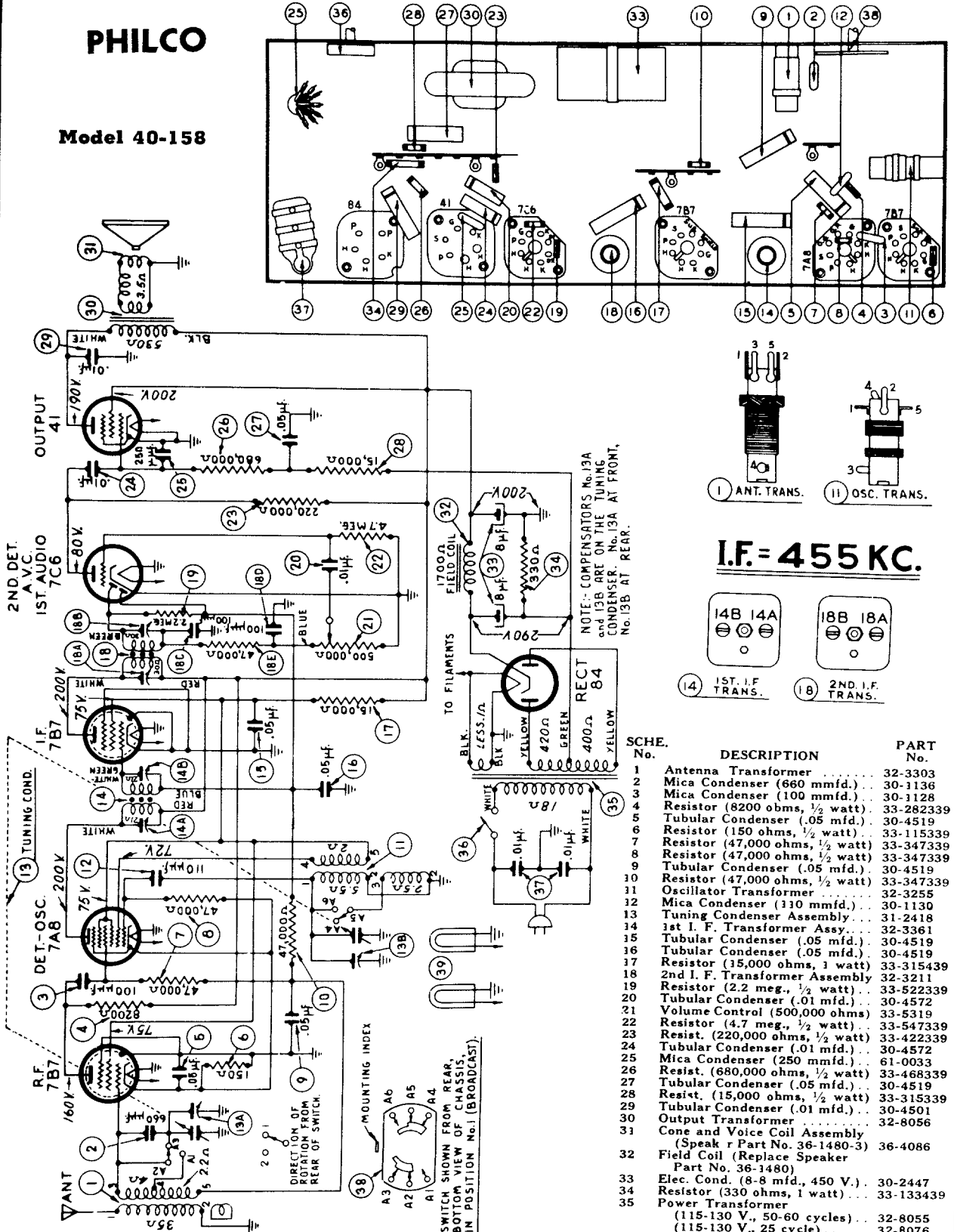
I.F.: 455 KC.



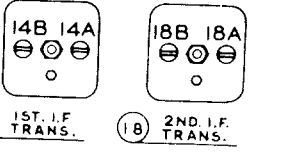
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

PHILCO

Model 40-158



I.F. = 455 KC.



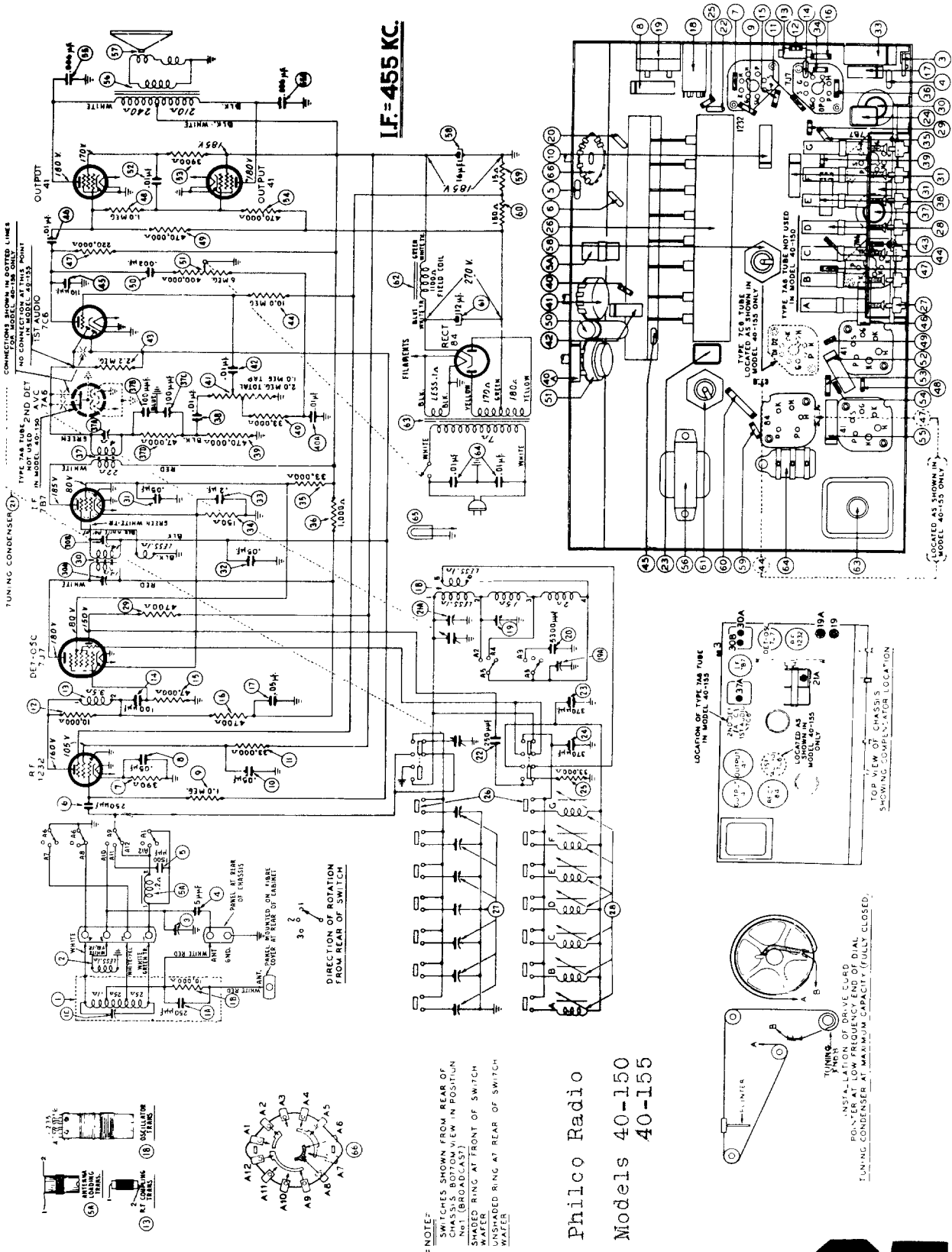
SCHE. No.	DESCRIPTION	PART No.
1	Antenna Transformer	32-3303
2	Mica Condenser (660 mmfd.)	30-1136
3	Mica Condenser (100 mmfd.)	30-1128
4	Resistor (8200 ohms, 1/2 watt)	33-282339
5	Tubular Condenser (.05 mfd.)	30-4519
6	Resistor (150 ohms, 1/2 watt)	33-115339
7	Resistor (47,000 ohms, 1/2 watt)	33-347339
8	Resistor (47,000 ohms, 1/2 watt)	33-347339
9	Tubular Condenser (.05 mfd.)	30-4519
10	Resistor (47,000 ohms, 1/2 watt)	33-347339
11	Oscillator Transformer	32-3255
12	Mica Condenser (330 mmfd.)	30-1130
13	Tuning Condenser Assembly	31-2418
14	1st I. F. Transformer Assy.	32-3361
15	Tubular Condenser (.05 mfd.)	30-4519
16	Tubular Condenser (.05 mfd.)	30-4519
17	Resistor (15,000 ohms, 1 watt)	33-315439
18	2nd I. F. Transformer Assembly	32-3211
19	Resistor (2.2 meg., 1/2 watt)	33-522339
20	Tubular Condenser (.01 mfd.)	30-4572
21	Volume Control (500,000 ohms)	33-5319
22	Resistor (4.7 meg., 1/2 watt)	33-547339
23	Resist. (220,000 ohms, 1/2 watt)	33-422339
24	Tubular Condenser (.01 mfd.)	30-4572
25	Mica Condenser (250 mmfd.)	61-0033
26	Resist. (680,000 ohms, 1/2 watt)	33-468339
27	Tubular Condenser (.05 mfd.)	30-4519
28	Resist. (15,000 ohms, 1/2 watt)	33-315339
29	Tubular Condenser (.01 mfd.)	30-4501
30	Output Transformer	32-8056
31	Cone and Voice Coil Assembly (Speak r Part No. 36-1480-3)	36-4086
32	Field Coil (Replace Speaker Part No. 36-1480)	
33	Elec. Cond. (8-8 mfd., 450 V.)	30-2447
34	Resistor (330 ohms, 1 watt)	33-133439
35	Power Transformer (115-130 V., 50-60 cycles)	32-8055
	(115-130 V., 25 cycle)	32-8076
36	A. C. Switch	42-1545
37	Bakelite Cond. (.01-.01 mfd.)	3903-DG
38	Wave Switch	42-1494
39	Pilot Lamps	34-2064

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COMPILED BY M. N. BEITMAN, SUPREME PUBLICATIONS

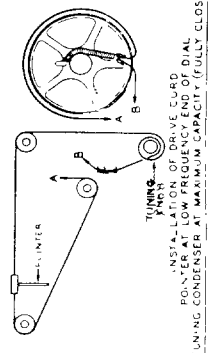
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

I.F. = 455 KC.



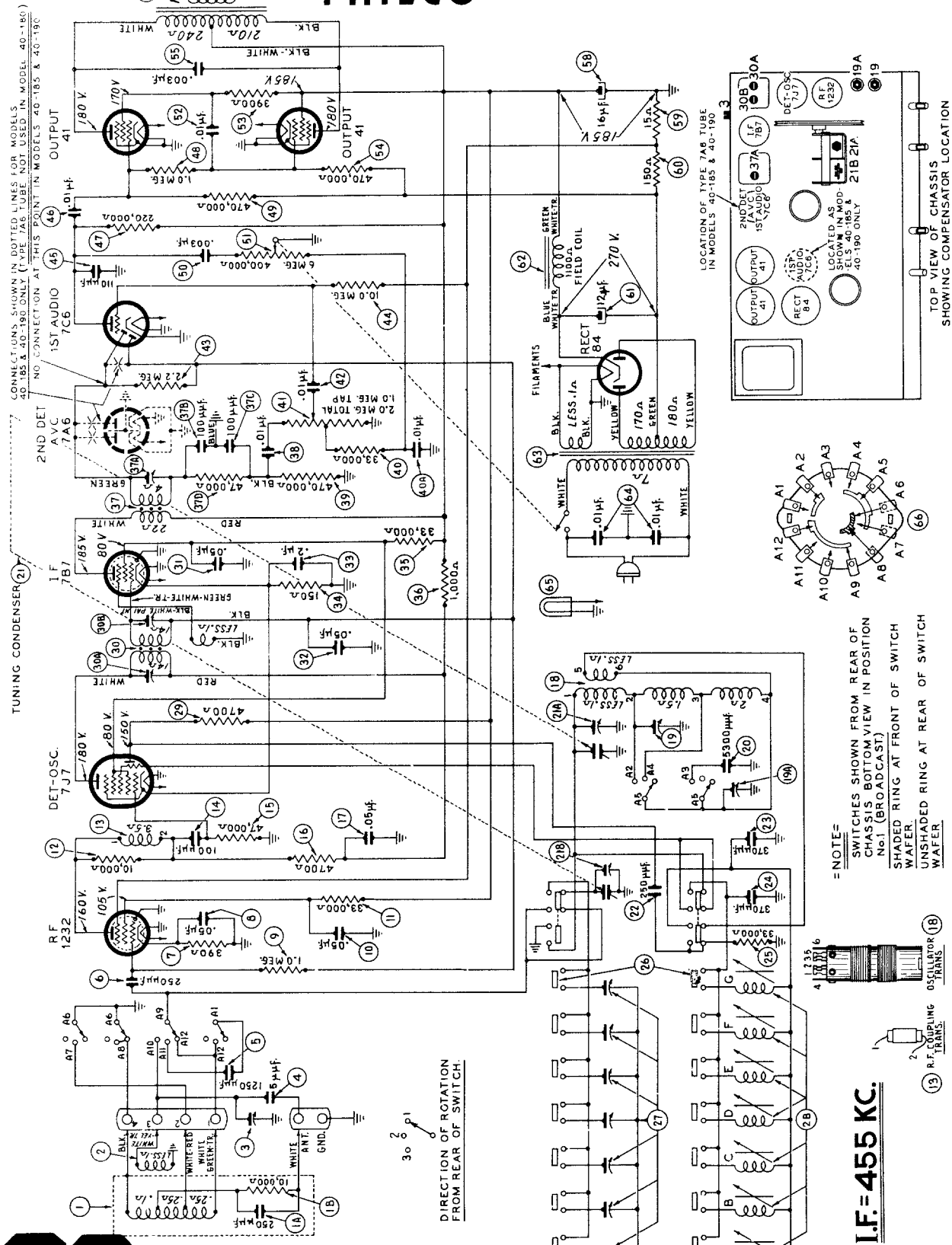
NOTE-
 SWITCHES SHOWN FROM REAR OF CHASSIS (SEE VIEW IN POSITION NOT BROADCAST)
 SHADED RING AT FRONT OF SWITCH WATER
 UNSHADED RING AT REAR OF SWITCH WATER

Philco Radio
Models 40-150
40-155



MOST POPULAR SERVICE DIAGRAMS

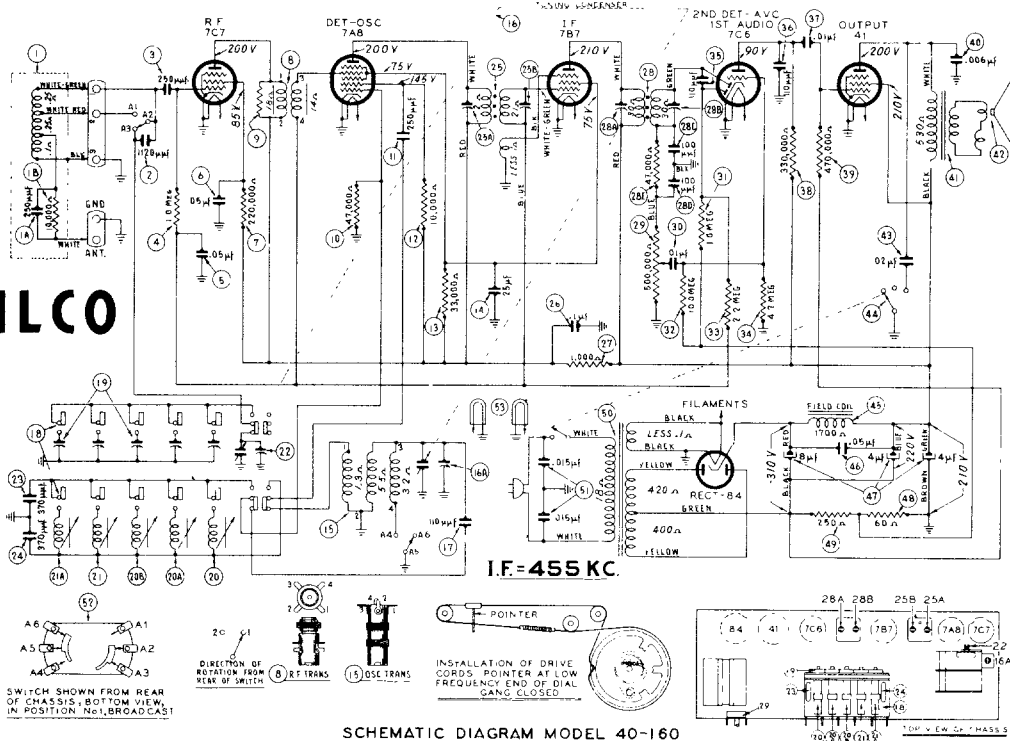
PHILCO Models 40-180, 40-185, 40-190



MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

Model 40-160

PHILCO



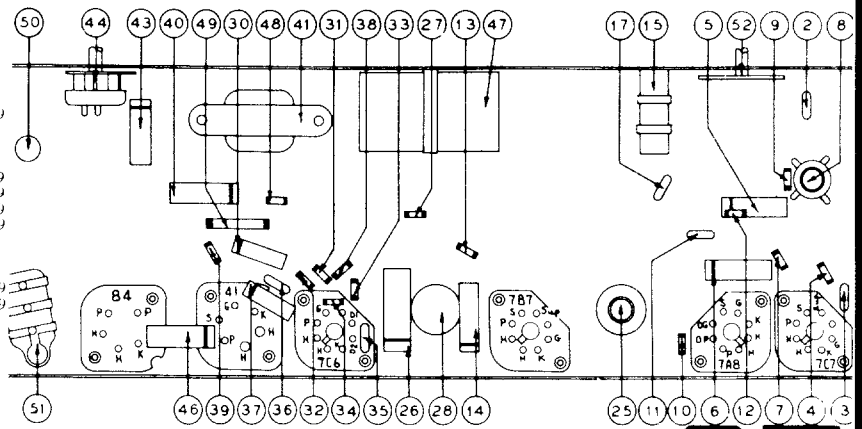
SCHMATIC DIAGRAM MODEL 40-160

Sch. No.	Description	Part No.
1	Loop Assy.	38-9897
1A	Mica Cond. (250 mmfd.)	61 0043
1B	Resistor (10,000 ohms, 1/2 watt)	33-310339
2	Mica Cond. (1120 mmfd.)	30 1140
3	Mica Cond. (250 mmfd.)	61 0043
4	Resistor (1.0 meg., 1/2 watt)	33 510339
5	Tubular Cond. (.05 mfd.)	30-4519
6	Tubular Cond. (.05 mfd.)	30 4123
7	Resistor (220,000 ohms, 1/2 watt)	33 422339
8	R. F. Trans.	32 3283
9	Resistor (6800 ohms, 1/2 watt)	33-268339
10	Resistor (470,000 ohms, 1/2 watt)	33 447339
11	Mica Cond. (250 mmfd.)	61 0043
12	Resistor (10,000 ohms, 1/2 watt)	33 310339
13	Resistor (33,000 ohms, 1/2 watt)	33-333339
14	Tubular Cond. (.25 mfd.)	30 4448
15	Oscillator Trans.	32 3212
16	Tuning Cond.	31 2374
17	Mica Cond. (110 mmfd.)	30-1130
18	Push Button Switch	42 1493
19	Padder Strip and Bracket Assy.	31-6325
20	Coil No. 1 540 1100 K.C.	32 3042
20A	Coil No. 2 650 1100 K.C.	
20B	Coil No. 3 740 1100 K.C.	
21	Coil No. 4 900-1500 K.C.	
21A	Coil No. 5 1100-1600 K.C.	32 3041
22	Compensator	31 6308
23	Silver Mica Cond. (370 mmfd.)	30 1110
24	Silver Mica Cond. (370 mmfd.)	30 1110
25	1st I.F. Trans.	32 3210
26	Tubular Cond. (.1 mfd.)	30 4455
27	Resistor (1000 ohms, 1/2 watt)	33 210339
28	2nd I.F. Trans.	32-3211
29	Volume Control	33 5319
30	Tubular Cond. (.01 mfd.)	30 4572
31	Resistor (1.0 meg., 1/2 watt)	33 510339
32	Resistor (10.0 meg., 1/2 watt)	33-610339
33	Resistor (2.2 meg., 1/2 watt)	33 522339
34	Resistor (4.7 meg., 1/2 watt)	33 547339
35	Mica Cond. (110 mmfd.)	30 1130
36	Mica Cond. (110 mmfd.)	30 1130
37	Tubular Cond. (.01 mfd.)	30 4572
38	Resistor (330,000 ohms, 1/2 watt)	33 433339
39	Resistor (470,000 ohms, 1/2 watt)	33 447339
40	Tubular Cond. (.006 mfd.)	30 4504
41	Output Trans.	32 8056
42	Cone and Voice Coil Assy. (Spkr.)	36-4086
43	Tubular Cond. (.02 mfd.)	30 4599
44	Tone Control and On-Off Switch	42-1520
45	Field Coil (Replace Spkr. Part No. 36 1480)	
46	Tubular Cond. (.05 mfd.)	30 4123

Sch. No.	Description	Part No.
47	Electrolytic Cond. (18.44 mfd.)	30-2400
48	Resistor (60 ohms, 1/2 watt)	33-060339
49	Resistor (250 ohms, 1/2 watt)	33-125339
50	Power Trans.	32-8055
51	Line Cond. (.015-.015 mfd.)	3903 DG
52	Wave Switch	42-1494
53	Pilot Lamps	34-2064

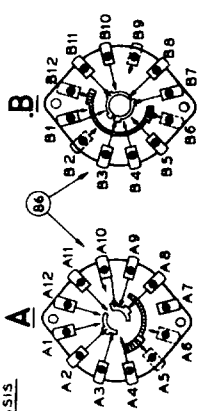
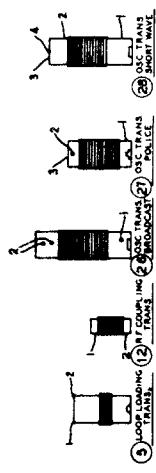
MISCELLANEOUS PARTS		Part No.
Description		
Bezel		27 4842
Cabinet		10398A
Cable and Plug (Power Supply)		1-3199
Chp. (Coil Mtg.)		28-5002
Dial		27-5306
Drive Cord Assy. (Pointer)		31 2382
Drive Cord Assy. (Tuning Cond.)		31-2400
Escutcheon (Push Button)		27-4843
Insulating Bushing (Insulate Drive Shaft)		27-9437
Knobs (Tuning, Tone, Volume, Wave Switch)		27-4332

Description	Part No.
Knobs (Push Buttons)	27-4824
Pilot Lamp Socket Assy.	38-9908
Pointer	56 1479
Reflector (Pilot Lamp)	27-9455
Rubber Hose (Tuning Cond Drive)	27 9432
Spring (Tuning, Drive Cond)	28-8751
Spring (Pointer, Drive Cond)	28-8953
Spring (Drive Shaft, Grounding)	28-8955
Screw (Bezel Mtg.)	W 1834
Speaker	36 1480
Socket (Type 84 Tube)	28-8751
Socket (Type 41 Tube)	27 6036
Socket (Lokalt, Type 7A8 Tube)	27-6129
Socket (Lokalt, Type 7C7, 7B7, 7C6 Tubes)	27-6131
Tab (Dial)	27 5528
Tab (Television)	27-9451
Tab Kit	40 6474
Tuning Shaft	56 0952
Tuning Drive Drum Assy.	38-9883
Washer ("C" Type, Tuning Shaft)	28-2043



Part Locations, Underside of Chassis

SHADED BING IS AT FRONT OF SWITCH WAFER.
 UNSHADED BING IS AT REAR OF SWITCH WAFER.
 SWITCH SHOWN IN POSITION No. 1 (PUSHBUTTON). FROM REAR, BOTTOM VIEW OF CHASSIS
 LETTERS SHOWN IN POSITION OF SWITCH WAFERS FROM REAR, BOTTOM VIEW OF CHASSIS
 AT WHICH SWITCH IS MOUNTED.



TOP VIEW OF CHASSIS
 SHOWING COMPENSATOR LOCATION

CONNECTIONS SHOWN IN DOTTED LINES
 ARE FOR MODEL 40-200 ONLY

NO CONNECTION
 AT THIS POINT IN MODEL 40-200

SEE NOTE A

2ND DET
 AVC

7A6

IF 7B7-225 K

TUNING CONDENSER

DET-OSC
 7J7-210 K

RF 1232-182 V

110 V

250 μF

10 μF

470 Ω

10 μF

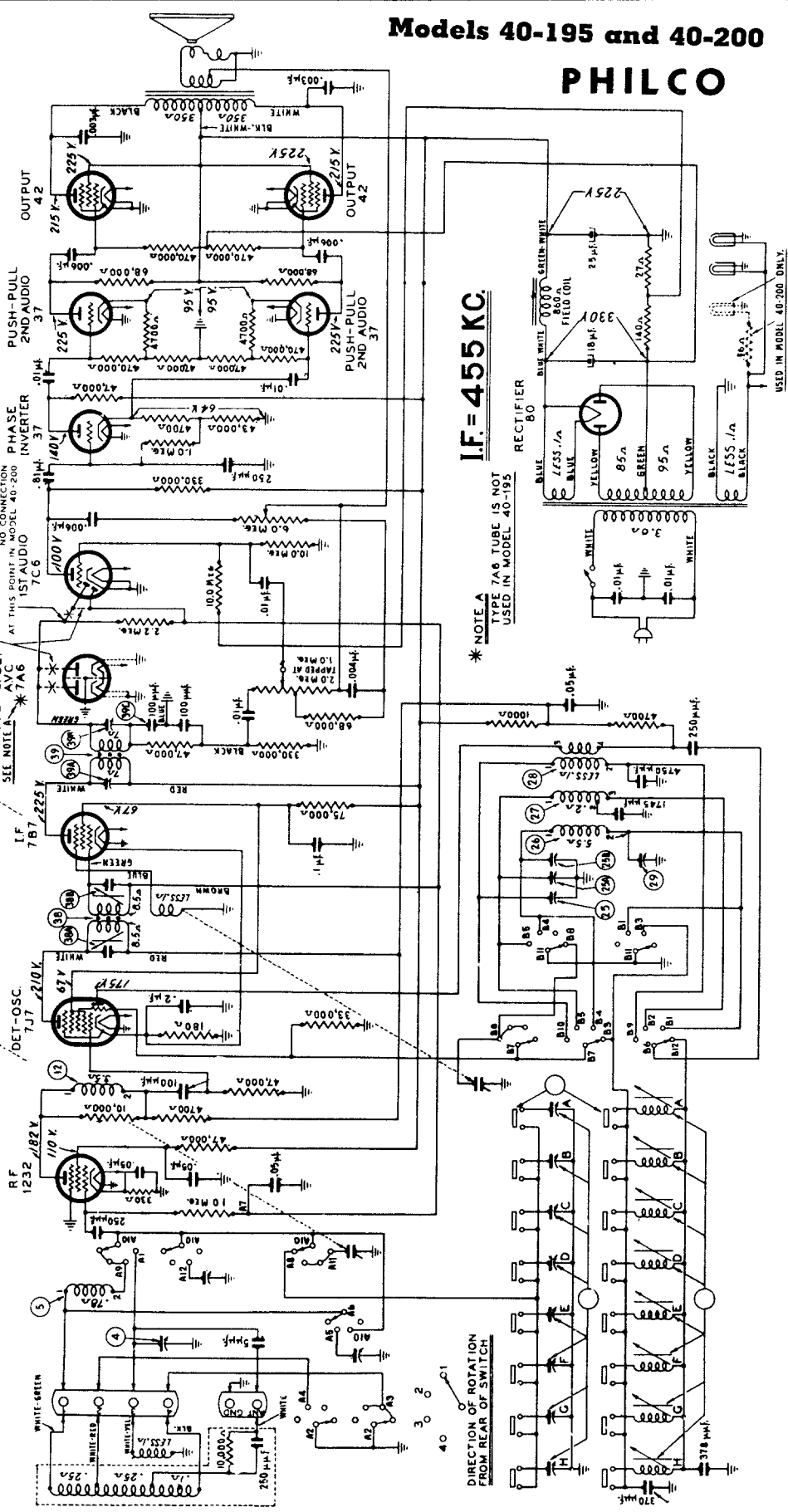
470 Ω

10 μF

470 Ω

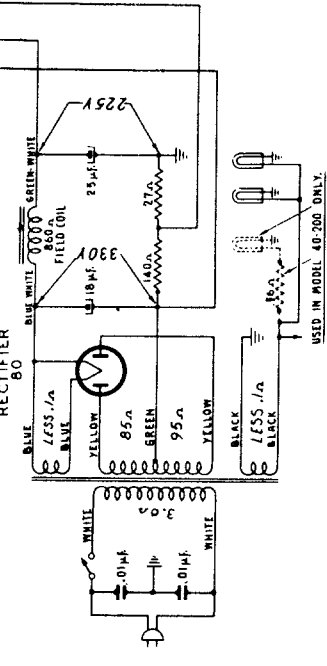
10 μF

470 Ω



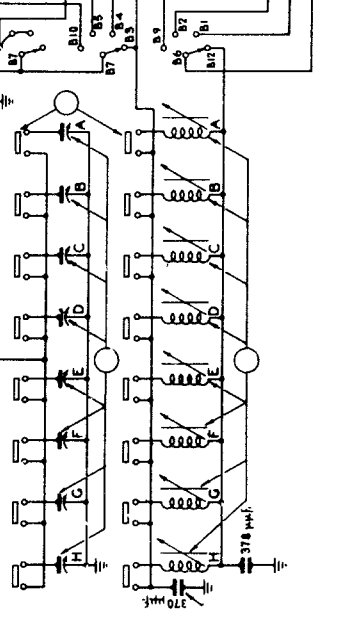
I.F. = 455 KC.

* NOTE A
 TYPE 7A6 TUBE IS NOT
 USED IN MODEL 40-195



USED IN MODEL 40-200 ONLY

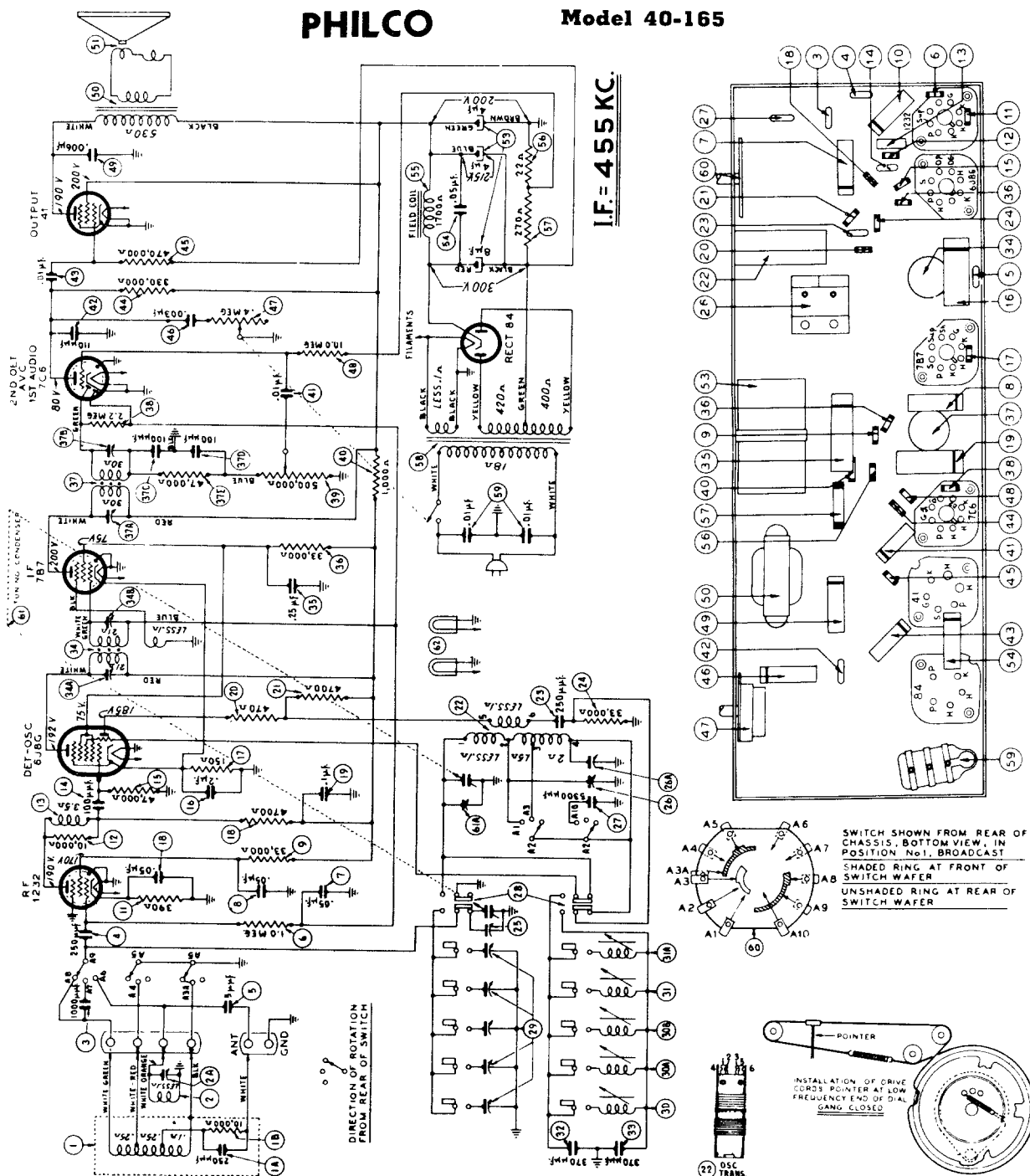
DIRECTION OF ROTATION
 FROM REAR OF SWITCH



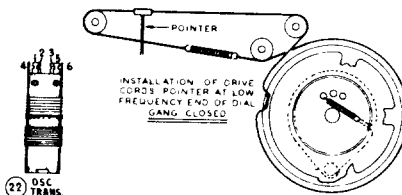
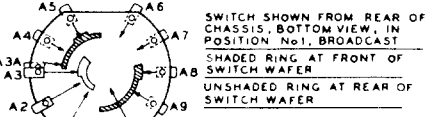
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

PHILCO

Model 40-165



IF. = 455 KC.

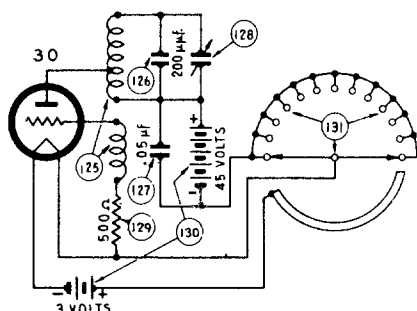


SCH. NO.	DESCRIPTION	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
1	Loop Assy. (Broadcast)	Resistor (150 ohms, 1/2 watt)	Resistor (4700 ohms, 1/2 watt)	Tubular Cond. (.1 mfd.)	Resistor (470 ohms, 1/2 watt)	Resistor (4700 ohms, 1/2 watt)	Osc. Trans.	Mica Cond. (.250 mmfd.)	Resistor (33,000 ohms, 1/2 watt)	Compensator (Single)	Compensator (2 sec. on)	Mica Cond. (.3300 mmfd.)	Coil No. 3 (740-1300 K.C.)	Coil No. 4 (900-1500 K.C.)	Coil No. 5 (1100-1600 K.C.)	Silver Mica Cond. (.370 mmfd.)	Silver Mica Cond. (.370 mmfd.)	1st I. F. Trans.	Tubular Cond. (.25 mfd.)	Resistor (33,000 ohms, 1/2 watt)	Resistor (2.2 meg., 1/2 watt)	Volume Control (500,000 ohms)	Resistor (1000 ohms, 1/2 watt)	Tubular Cond. (.01 mfd.)	Mica Cond. (.10 mmfd.)	Tubular Cond. (.01 mfd.)	Mica Cond. (10,000 ohms, 1/2 watt)	Resistor (330,000 ohms, 1/2 watt)	Resistor (470,000 ohms, 1/2 watt)	Tubular Cond. (.003 mfd.)	Tone Control and On-Off Switch (.4 meg.)	Resistor (10.0 meg., 1 watt)	Tubular Cond. (.006 mfd.)	Output Trans.	Cone and Voice Coil Assy. (Spkr. Part No. 36-1480-3)	Tubular Cond. (.05 mfd.)	Electrolytic Cond. (4-4-8 mfd.)	Field Coil (Replace Spkr. Part)	Resistor (22 ohms, 1/2 watt)	Resistor (270 ohms, 1 watt)	Power Trans. (110 volt, 60)	Line Cond. (.01-.01 mfd.)		

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

RECEIVER CIRCUIT ADJUSTMENTS — Models 40-215, 40-217

Operation	SIGNAL GENERATOR		RECEIVER			SPECIAL INSTRUCTIONS
	Output Connections to Receiver	Dial Setting	Dial Setting	Control Setting	Adjust Compensators	
1	78 I. F. Grid	470 K. C.	580 K. C.	Vol. Max. Range Switch "Brdcst"	41A, 41B	Turn Out 38B Full
2	6J8G Det. Osc. Grid	470 K. C.	580 K. C.	Vol. Max. Range Switch "Brdcst"	38A, 38C, 38B	Note A
3	Use Loop on Generator	18.0 M. C.	18.0 M. C.	Vol. Max. Range Switch "Short Wave"	29B, 2A	Note C, Note D 2A on SW Loop
4	Use Loop on Generator	1500 K. C.	1500 K. C.	Vol. Max. Range Switch "Brdcst"	29, 8A	Note A
5	Use Loop on Generator	580 K. C.	580 K. C.	Vol. Max. Range Switch "Brdcst"	30	Rollgang
6	Use Loop on Generator	1500 K. C.	1500 K. C.	Vol. Max. Range Switch "Brdcst"	29	
7	Use Loop on Generator	3.5 M. C.	3.5 M. C.	Vol. Max. Range Switch "Police"	29A, 8	Note B



SCHEMATIC DIAGRAM OF WIRELESS REMOTE CONTROL UNIT

FIG. 3. SCHEMATIC DIAGRAM, WIRELESS REMOTE CONTROL.

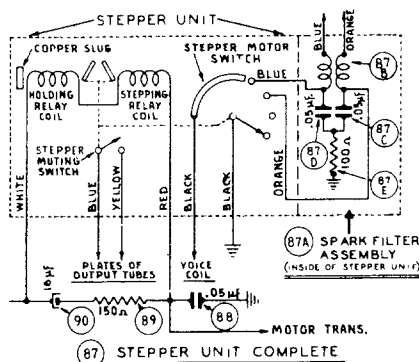
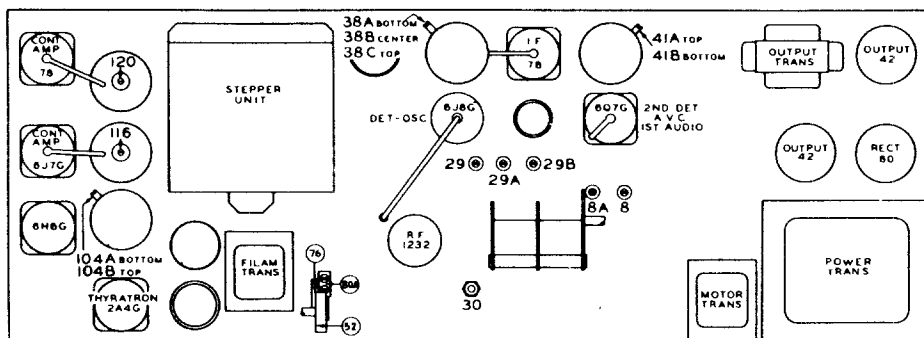


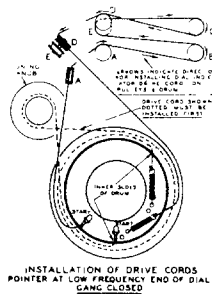
FIG. 4. WIRING OF STEPPER UNIT, WIRELESS REMOTE CONTROL.



NOTE A — DIAL CALIBRATION: In order to adjust the receiver correctly the dial must be aligned to track properly with the tuning condenser. To adjust the dial, proceed as follows: With the tuning condenser closed (maximum capacity), set the dial pointer on the extreme left index line at the low frequency end of the broadcast scale. The arrangement of the drive cable and dial pointer is shown.

NOTE C — If two peaks (signals) are observed on the aligning meter when adjusting the oscillator padder No. 29B, tune the padder to the second peak from the maximum capacity position (screw all the way in).

NOTE D — If two peaks (signals) are observed on the aligning meter when adjusting the loop padder 2A, tune the padder to the first peak signal from the maximum capacity position (screw all the way in). When adjusting the padders to this first peak roll the tuning condenser (rock) slightly back and forth to obtain the maximum readings on the aligning meter.

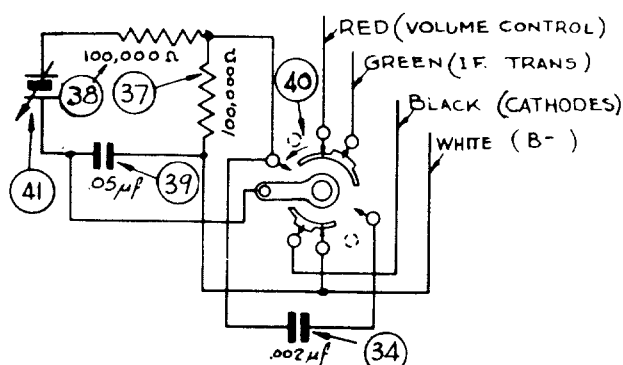
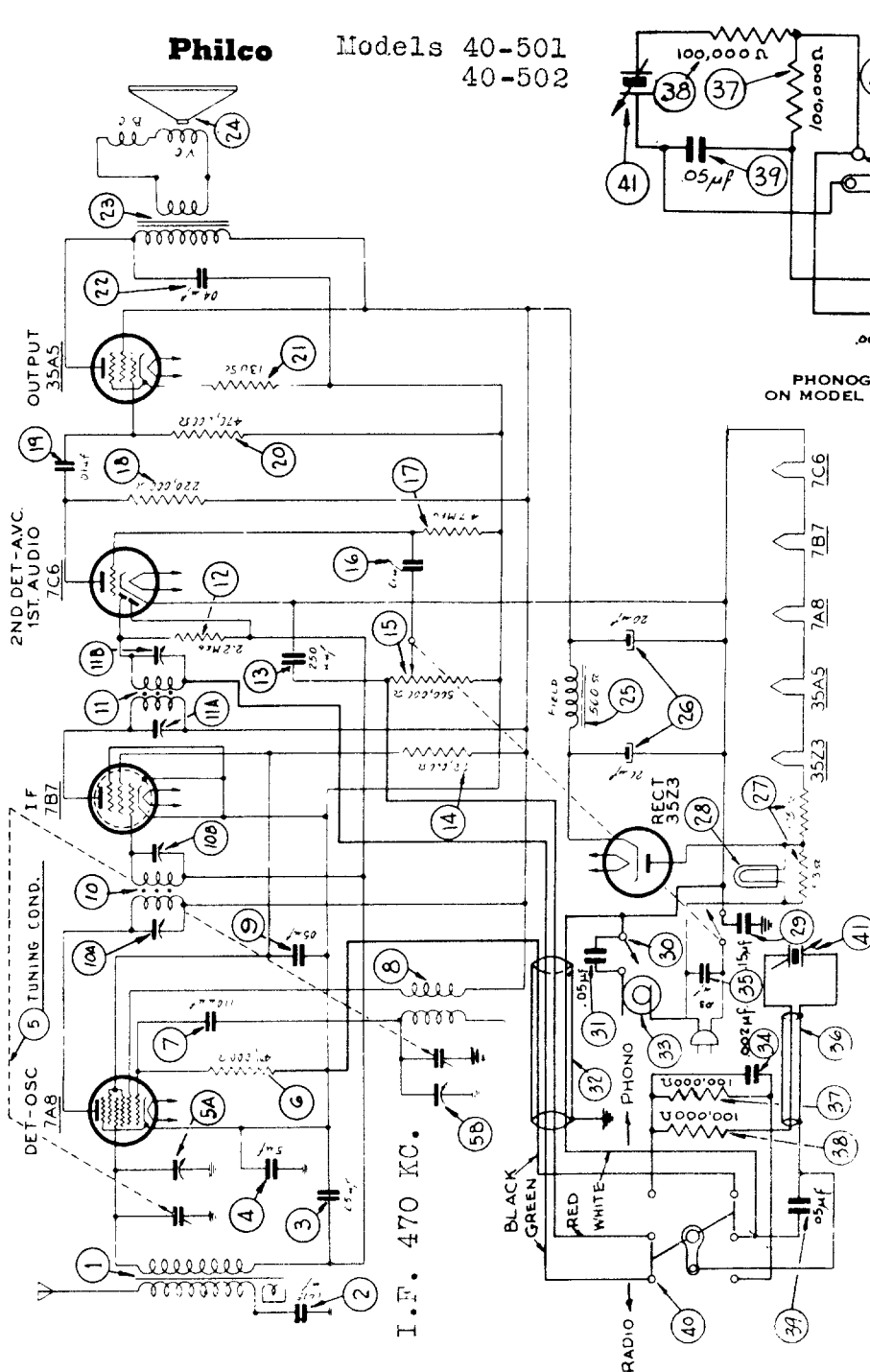


INSTALLATION OF DRIVE CORDS. POINTER AT LOW FREQUENCY END OF DIAL GANG CLOSED.

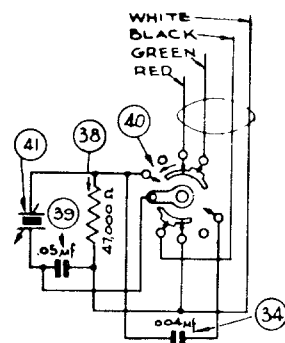
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

Philco

Models 40-501
40-502



PHONOGRAPH WIRING AS USED ON MODEL 40-502, CODE 121



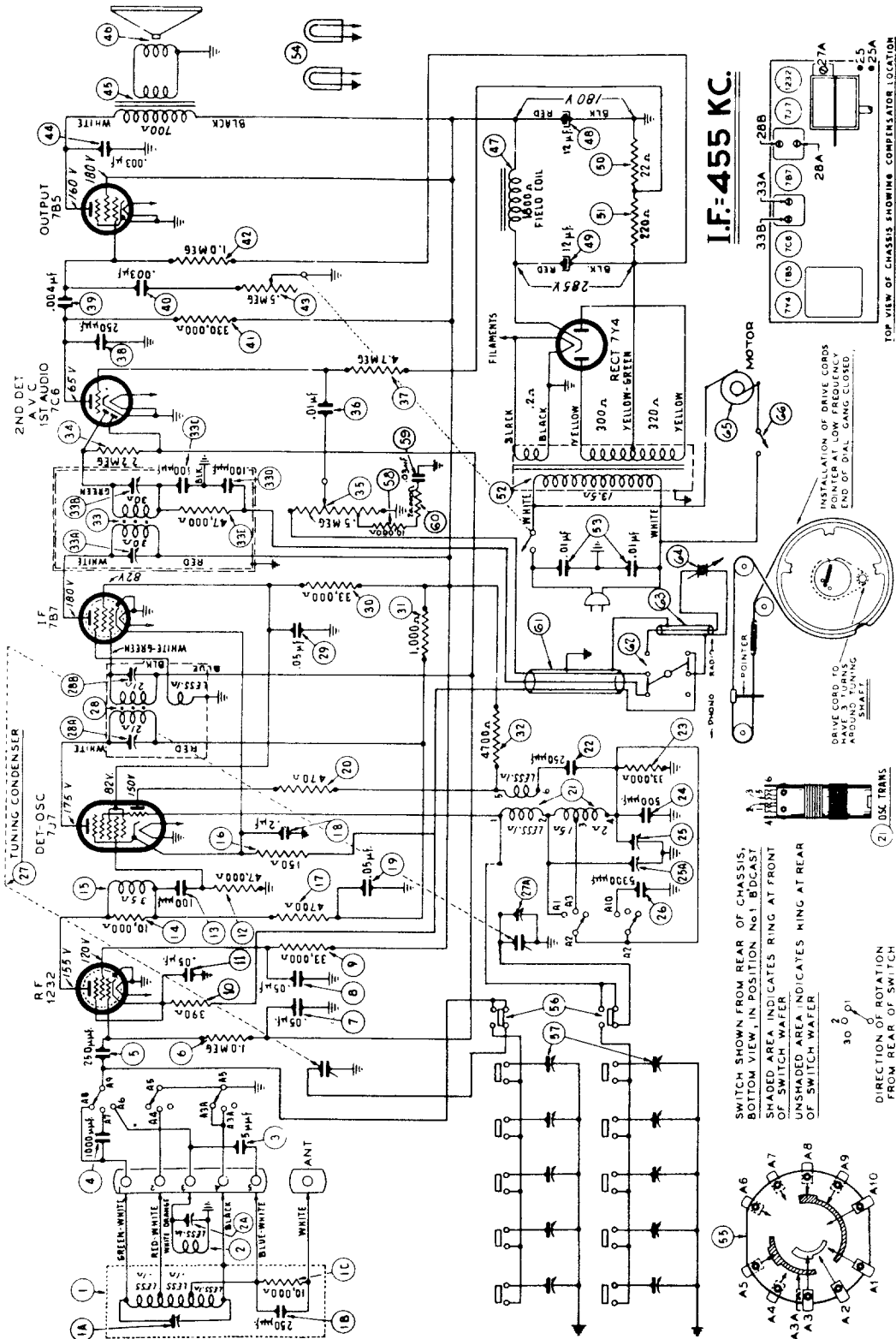
PHONOGRAPH WIRING AS USED ON MODEL 40-502, CODE 122

SCHE. No.	DESCRIPTION
31	Condenser, Tubular (.05 mfd.)
32	Radio-Phono Cable, Model 40-501
	Radio-Phono Cable, Model 40-502, Code 121-122
33	Motor (11.5 volts, 60 cycle)
	40-501, Code 121, 40-502, Code 121, 40-502, Code 122
34	Condenser (.002 mfd., 40-501, 40-502, Code 121)
	Condenser (.004 mfd., 40-502, Code 122)
35	Condenser (.03 mfd., 400 volts)
36	Pickup Cable

SCHE. No.	DESCRIPTION
37	Resistor (100,000 ohms, 40-501, Code 121, 40-502, Code 121)
38	Resistor (100,000 ohms, 40-501, 40-502, Code 121)
39	Resistor (47,000 ohms, 40-502, Code 122)
39	Condenser, Tubular (.05 mfd., 400 volts)
40	Radio-Phono Switch (Model 40-501) (Model 40-502, Code 121-122)
41	Pickup Crystal Cartridge
	40-501, 40-502, Code 121, 40-502, Code 122

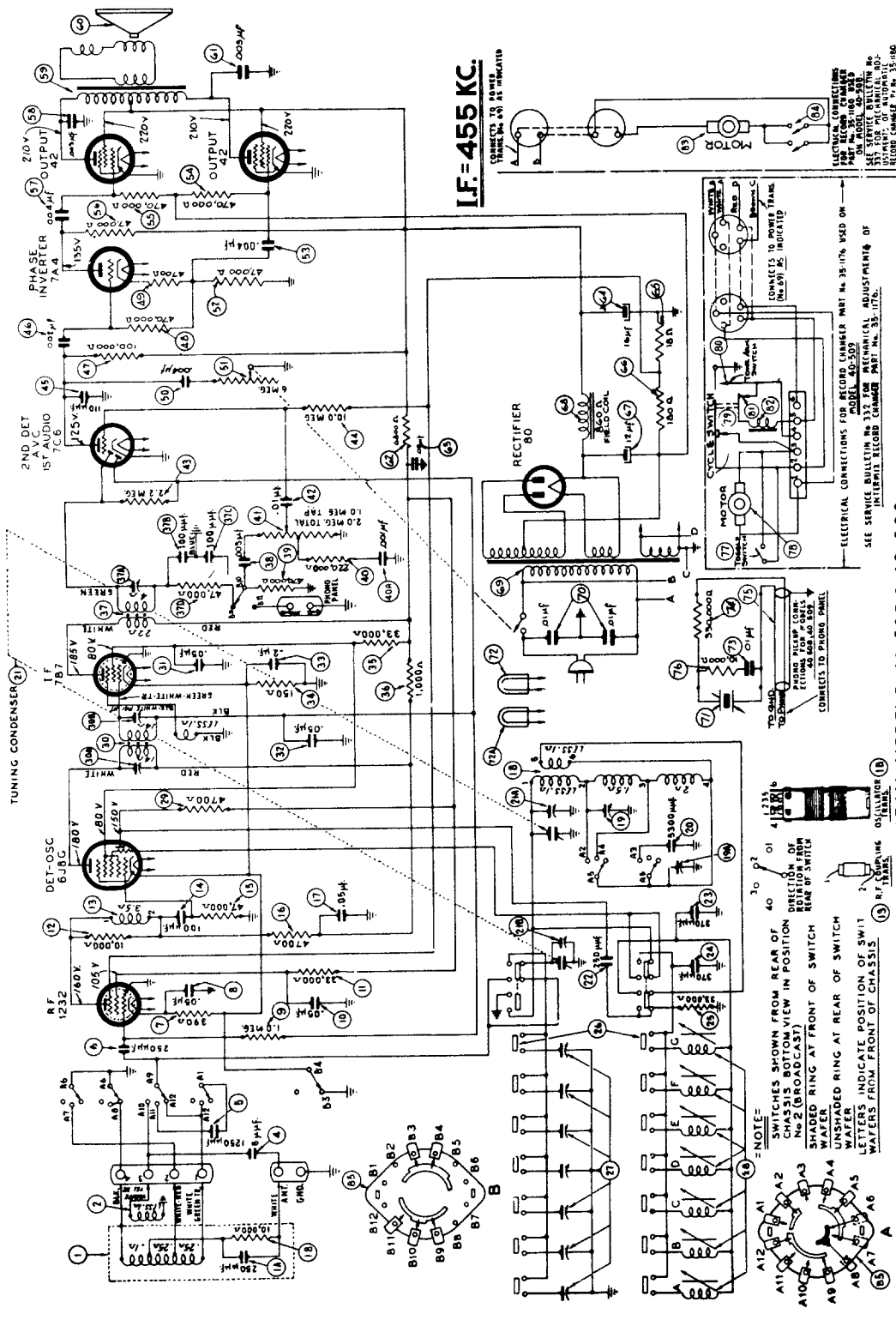
SCHE. No.	DESCRIPTION
1	Antenna Transformer
2	Condenser (.0015 mfd., 200 volts)
3	Condenser (.05 mfd., 400 volts)
4	Condenser (.15 mfd., 400 volts)
5	Tuning Condenser
5A	Antenna Compensator, Part of 5
6	Resistor (47,000 ohms, Model 40-502)
7	Condenser (110 mmfd.)
8	Oscillator Transformer
9	Condenser (.05 mfd., 200 volts)
10	1st I. F. Transformer
11	2nd I. F. Transformer
12	Resistor (2.2 megohms)
13	Condenser, Mica (250 mmfd.)
14	Resistor (22,000 ohms, Model 40-502, Code 122)
15	Volume Control
16	Condenser (.01 mfd., 200 volts)
17	Resistor (4.7 megohms, Model 40-502, Code 122)
18	Resistor (220,000 ohms, Model 40-502, Code 122)
19	Condenser, Tubular (.01 mfd., 400 volts)
20	Resistor (470,000 ohms, Model 40-502, Code 122)
21	Resistor (130 ohms)
22	Condenser (.02 mfd., 400 volts)
23	Output Transformer
	For use with Speaker 36-1469-1
24	For use with Speaker 36-1469-9
	Cone Assembly for Speaker 36-1469-1
	Cone Assembly for Speaker 36-1469-9
25	Field Coil—Replace Speaker 36-1469-9
26	Electrolytic Condenser (20-20 mfd.)
27	Resistor
28	Pilot Lamp
29	Condenser (.15 mfd.)
30	Motor Switch (40-501, 121, 40-502, 121-122)

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



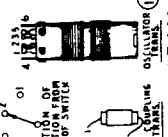
SCHEMATIC DIAGRAM MODEL 40-507

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



IF = 455 KC.
 CONNECT AS INDICATED ON PARTS LIST

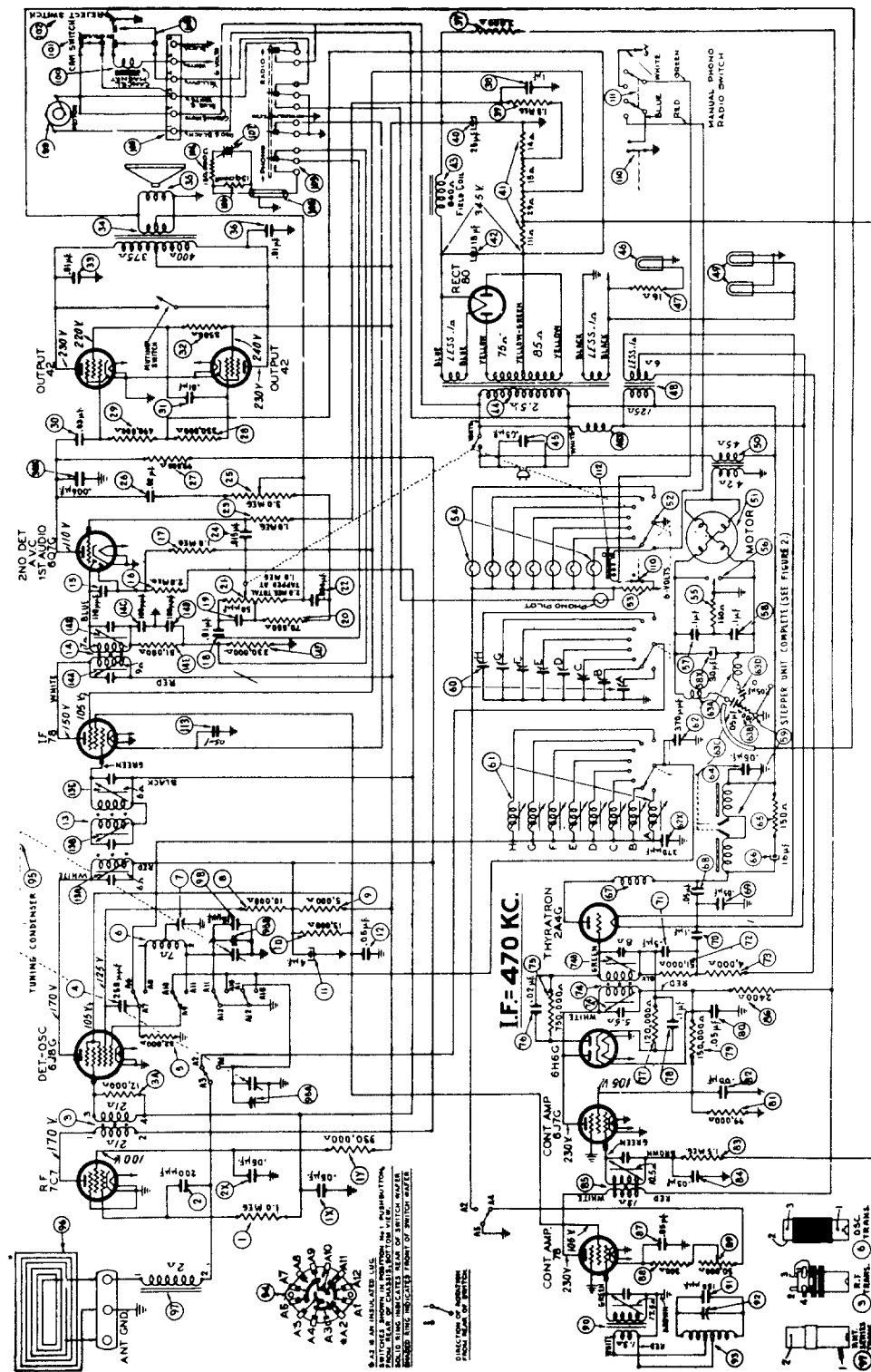
ELECTRICAL CONNECTIONS FOR MOTOR (NUMBER MET. NO. 35-1176) USED ON...
 SEE SERVICE BULLETIN NO. 713 FOR MECHANICAL ADJUSTMENTS OF INTERMITT RECORD CHANGER MET. NO. 35-1176.



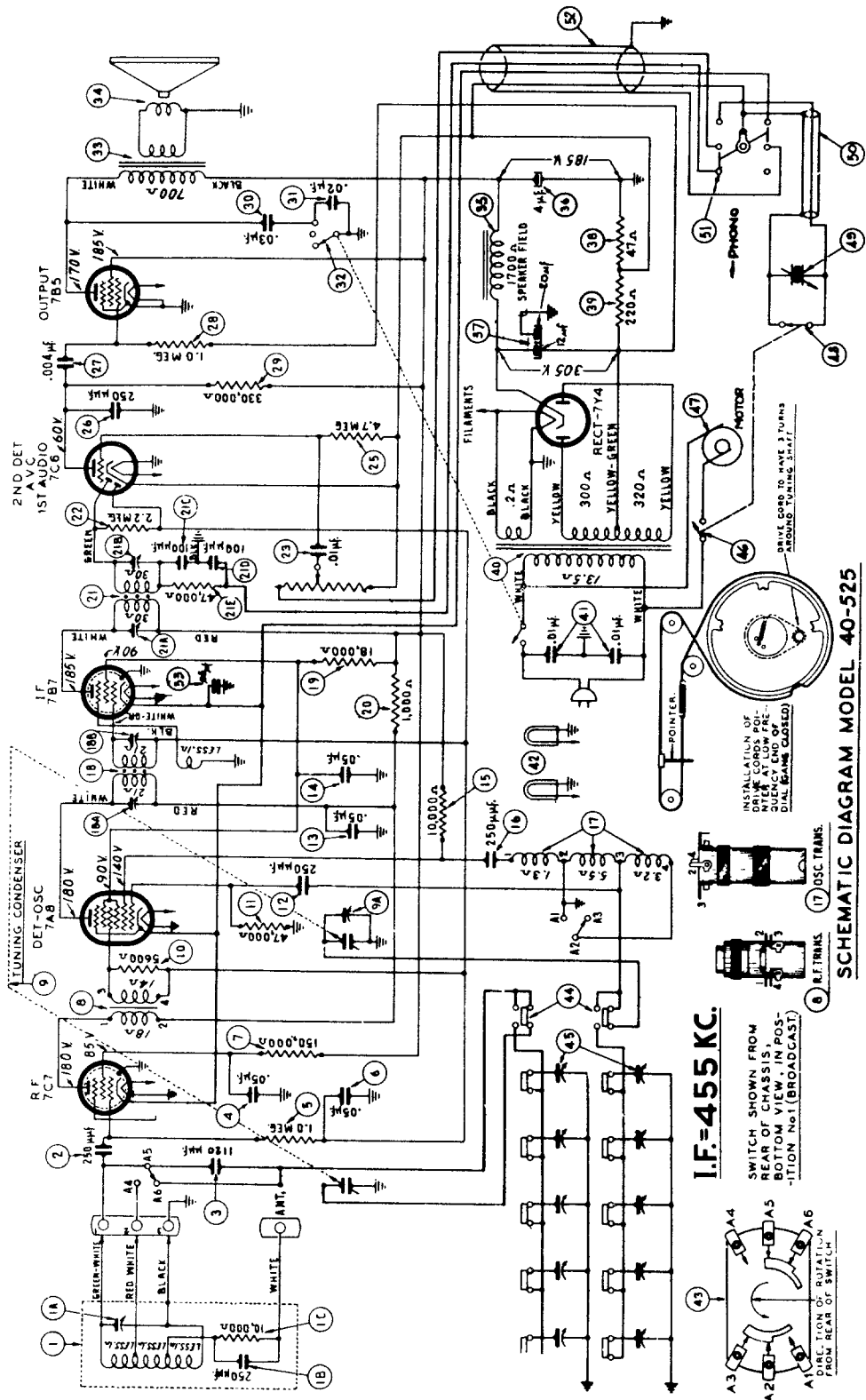
NOTE =
 SWITCHES SHOWN FROM REAR OF CHASSIS (BROADCAST)
 SHARED RING AT REAR OF SWITCH
 WAFER
 UNSHADED RING AT REAR OF SWITCH
 LETTERS INDICATE POSITION OF SWITCH WAFERS FROM FRONT OF CHASSIS

SCHEMATIC DIAGRAM MODELS 40-508 & 40-509

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

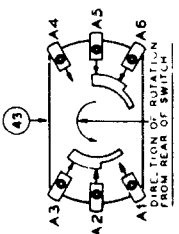


SCHEMATIC DIAGRAM MODEL 40-510

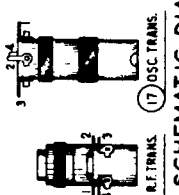


I.F.=455 KC.

SWITCH SHOWN FROM REAR OF CHASSIS, BOTTOM VIEW, IN POSITION No.1 (BROADCAST)

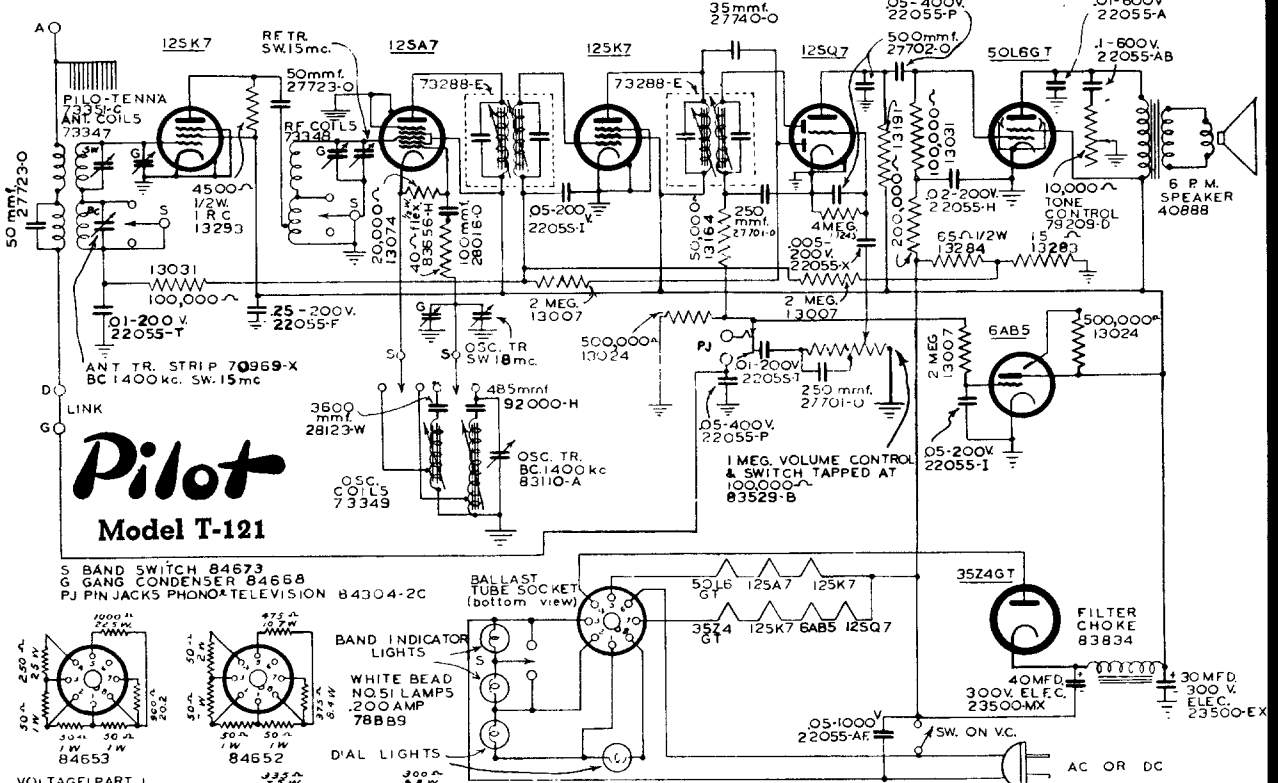


INSTALLATION OF SWITCH AT BOTTOM END OF DIAL BEING CLOSED



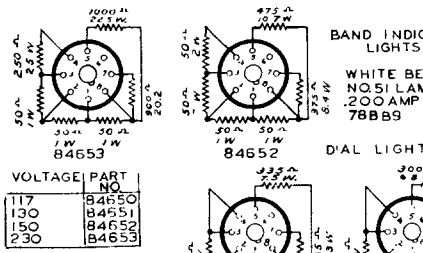
SCHEMATIC DIAGRAM MODEL 40-525

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



Pilot Model T-121

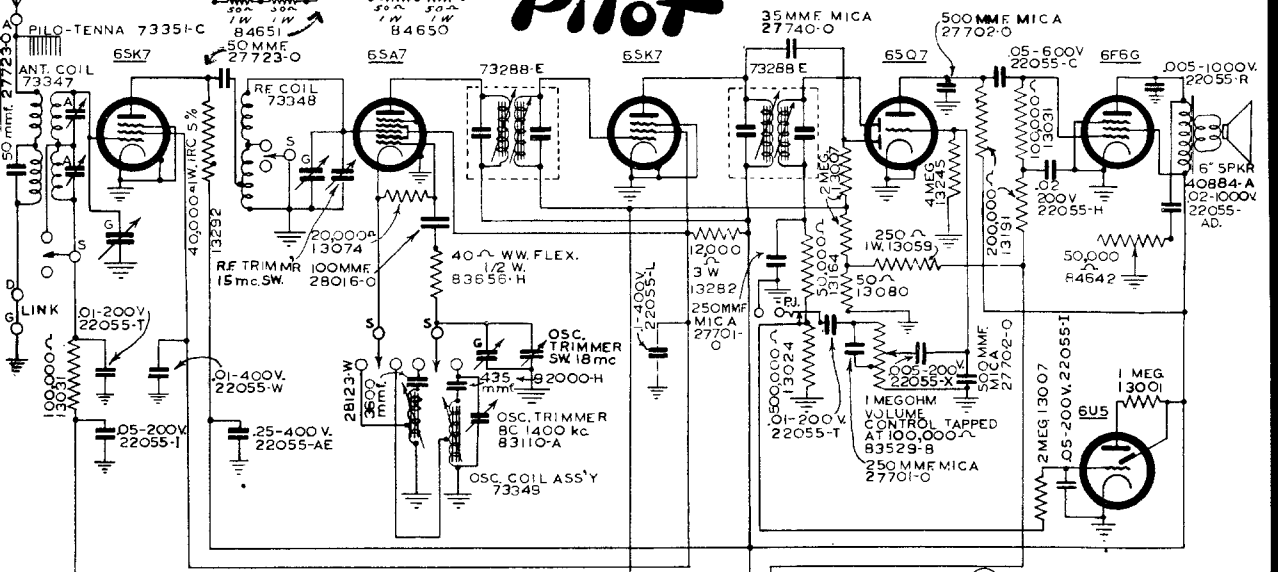
S BAND SWITCH 84673
 G GANG CONDENSER 84668
 PJ PIN JACKS PHONO TELEVISION 84304-2C



BALAST TUBE SOCKET (bottom view)

ALL RESISTORS ARE 1/4 WATT UNLESS OTHERWISE SPECIFIED I.F. 455 kc.

Model T-122 A.C. Receiver

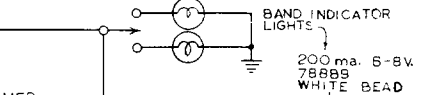


Pilot

ALL RESISTORS ARE 1/4 WATT UNLESS OTHERWISE SPECIFIED, I.F. 455 kc.

S - BAND SWITCH 84817
 G - GANG CONDENSER 84668
 A - ANTENNA TRIMMERS 70958
 BC 1400 kc.-SW.15mc.
 PJ PHONO & TELEVISION PIN JACKS 84304-2C

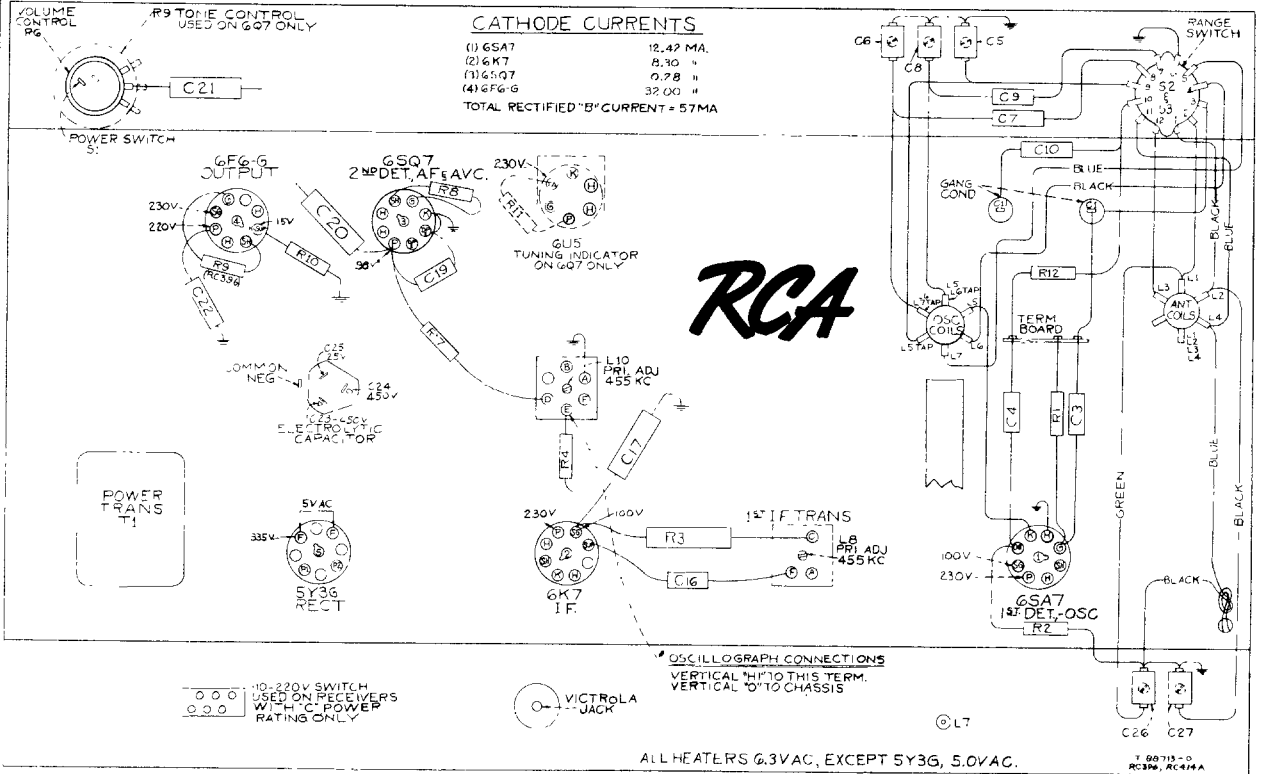
POWER TRANSFORMER PART NO.
 VOLTAGE
 117 83412-R
 150 83412-L
 115-230 83412-FB



ALL FILAMENTS

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

MODELS 5Q5, 5Q55, 5Q56 and 6Q7

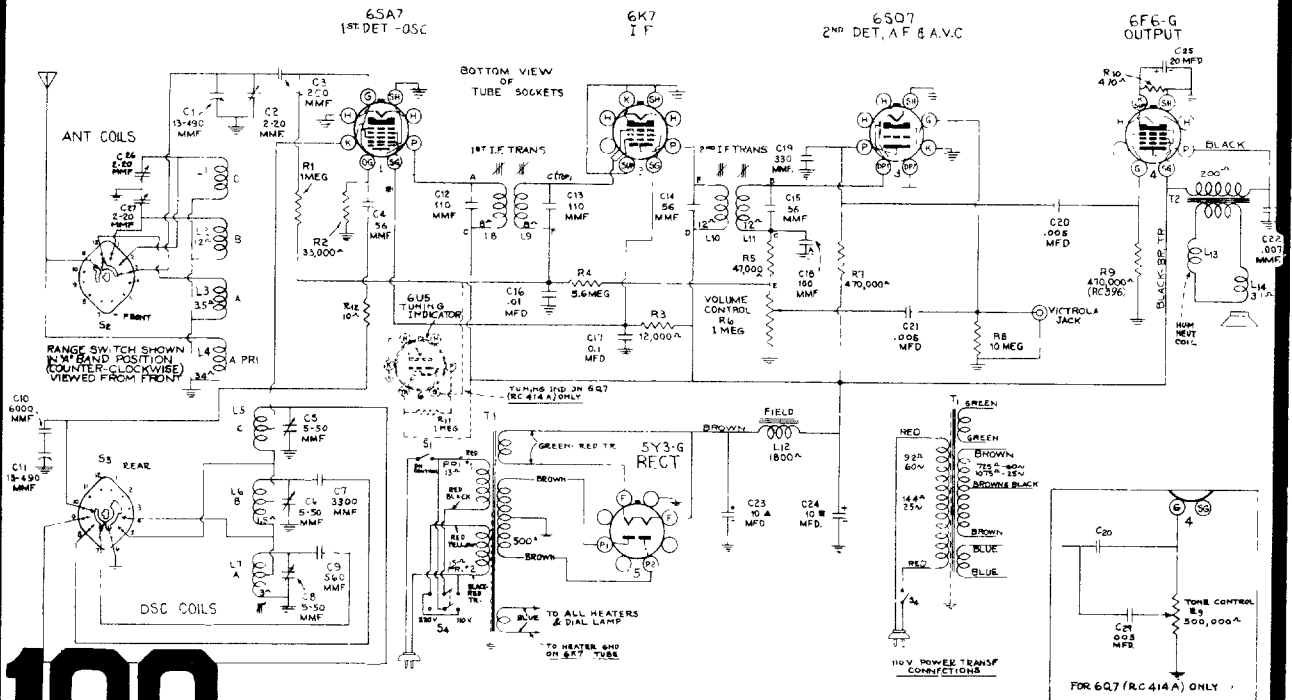


BOTTOM VIEW - REAR OF CHASSIS

R-F Wiring Diagram and Socket Voltages

Measurements made to chassis unless otherwise indicated, with set tuned to quiet point and volume control at minimum. Values should hold within $\pm 20\%$ with 117-volt a c supply.

NOTE: Values with star () are operating voltages in circuits with high series resistance. The actual measured voltages will be lower, depending on the voltmeter loading.



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RCA MODEL TRK-5 and MODEL TT-5

Antenna Installation:

In most cases, the antenna should not be installed permanently on the apartment or residence roof until the quality of the picture reception has been observed on a Television Receiver. A temporary transmission line can be run between receiver and the antenna allowing sufficient slack to permit moving the antenna. Then, with a telephone system connecting an observer at the receiver and an assistant on the roof to find an antenna location, the antenna can be positioned to give the most satisfactory results on the received signal. A shift of only a few feet in antenna position or direction may effect a tremendous difference in picture reception. Whenever possible, the antenna location should be chosen or erected so the antenna is not only roadside to the transmitter but removed as far as possible from highways, hospitals and doctors' offices, and similar sources of interference. Auto ignition and diathermy apparatus may cause noise interference which spoils the picture.

In mounting any antenna, care must be taken to keep the antenna rods or pickup wires proper at least $\frac{1}{4}$ wave length (at least 6 feet) away from other antennas, metal roofs and gutters or metal objects.

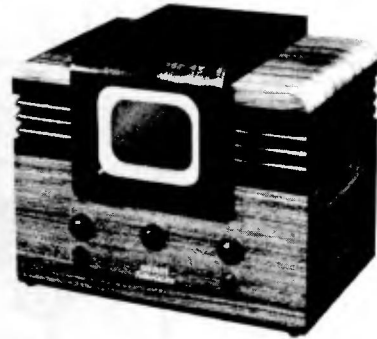
Under certain extremely unusual conditions, it may be possible to rotate or position the antenna so it receives the cleanest picture over a reflected path. If such is the case, the antenna should be so positioned. However, such a position may give variable results as the nature of reflecting surfaces may vary with weather conditions, as a wet surface has been known to have different reflecting characteristics than a dry surface.

In short, a television receiving antenna and its installation must conform to much higher standards than an antenna for reception of International Short Wave and Standard Broadcast signals because:

(1) Intervening obstacles have a pronounced shielding effect on the ultra-high frequency waves producing low intensity signals. Severe trouble with multi-path transmissions may be experienced, especially in congested city areas.

(2) The picture signal is comprised of a very wide band or range of frequencies, all of which must be received with good efficiency.

(3) It must be continually remembered that the discernment of the eye is much more critical than that of the ear.



No attempt should ever be made to measure the high (2,000 volts) voltage, because of the dangers and difficulties involved. If at any time it becomes necessary to service the high voltage circuit, the suspected parts should be replaced by parts known to be in good operating condition.

Always replace the red can over the 879 high voltage rectifier.

The most dangerous portion of the receiver is the plate (top cap) lead for the 879 high voltage rectifier. Always be very careful when working near or with this lead.

When working on the high voltage supply portion of this chassis, the following precautions should be observed:

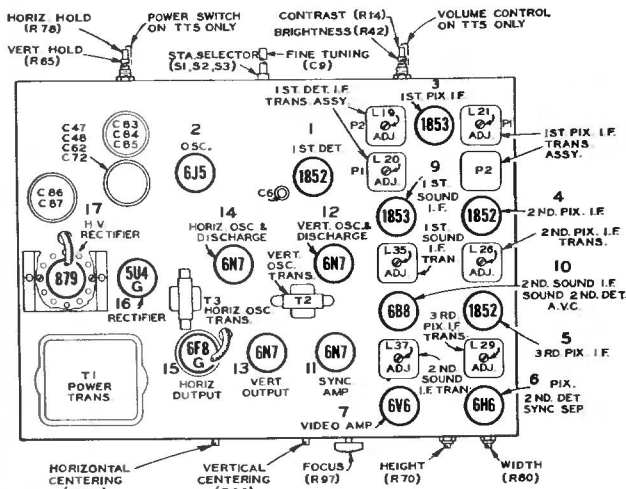
1. Remove power supply cord from the power supply socket.
2. Use only one hand at a time.
3. Connect a shorting lead between ground (firstly) and to the high voltage side.
4. Whenever working with the oil-filled high voltage filter capacitors, keep a constant short across the capacitor, as these capacitors do not completely lose their charge after being discharged a single or several subsequent times.
5. Only one person at a time should work on the unit to prevent any misunderstanding which may result in an accident.

When it is desired to measure any voltages on the Video portion of the chassis, the primary leads of the high voltage transformer should be disconnected and taped together.

When any changes are made on the Video portion of the chassis, the locations of leads and parts should be returned as closely as possible to their original positions.

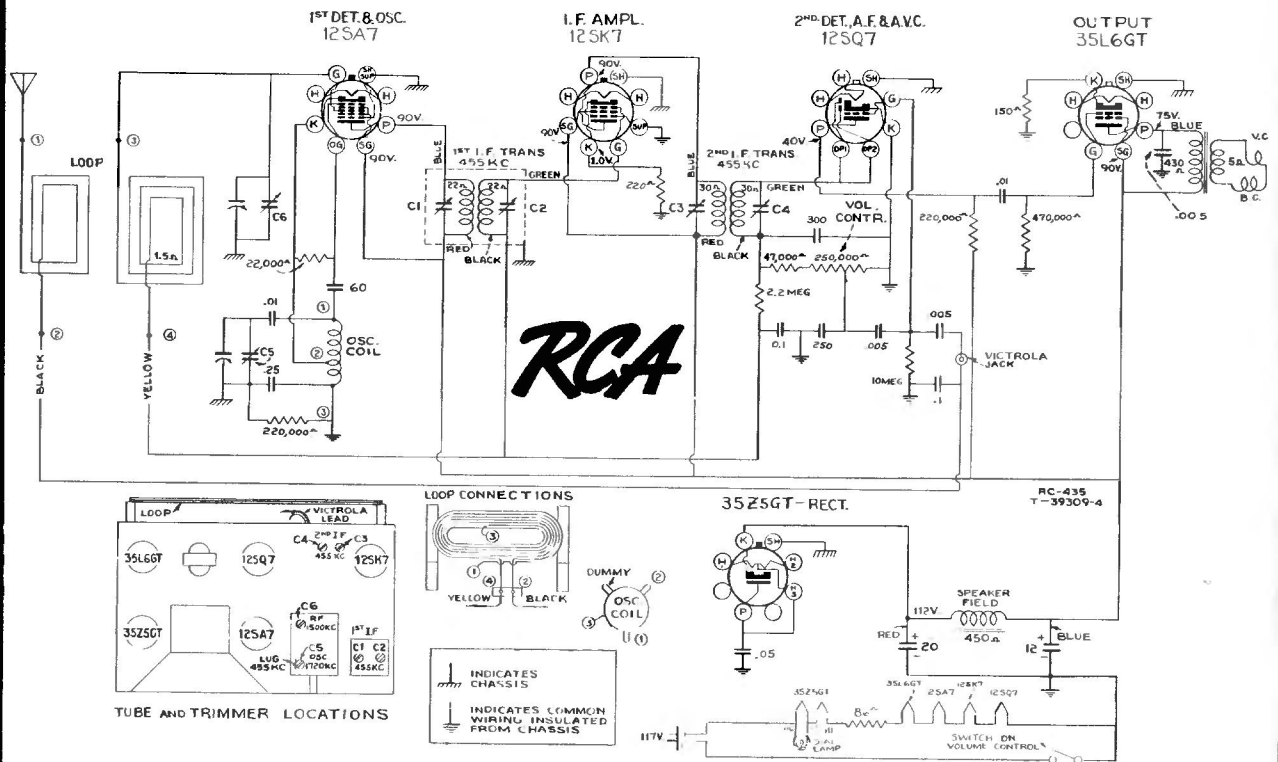
Service Hints:

1. In some cases the horizontal sweep oscillator circuit will radiate energy to nearby broadcast receiving antennas and lead-ins, causing interference with standard broadcast receivers.
2. If the picture "tears out" when the receiver is jarred it may be due to microphonic 1852, 1853, or 6J5 tubes.
3. The 6J5 oscillator tube should be removed without rocking it in its socket to loosen it, as the motion may cause the 80.5 mmf capacitor C16 to break off.
4. The coils or straps in the h.f. oscillator circuits should not be touched or moved or the alignment of the receiver will be disturbed.
5. The insulator on the high voltage filter capacitors may become dirty and break down to short out the high voltage.
6. The two Video coupling capacitors C44, 45, should be kept clear of chassis.
7. In some cases the metal Kinescope mounting shield may become magnetized by the earth's or some nearby magnetic field, and thus distort the picture on the screen towards the magnetized portion of the shield. The shield can be demagnetized by passing it slowly through a solenoid which is energized by an a-c current.



MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

Model 9TX-50 Series (Chassis No. RC-435)



Alignment Procedure

Output Meter Alignment.—Connect the meter across the voice coil, and turn the receiver volume control to maximum.

Test-Oscillator.—Connect the low side of the test-oscillator to the receiver chassis, through a .01 mfd. capacitor, and keep the output as low as possible.

Pre-Setting Dial.—With gang condenser in full mesh, the pointer should be adjusted so that top edge of pointer just touches rivet in dial plate.

Antenna.—The set is equipped with a built-in loop antenna. If an outdoor antenna is used, it may be connected to the "ANT" terminal on rear of cabinet. It should not be longer than 100 feet, including lead-in. If it is longer, connect a 100 to 200 mmf. capacitor in series with the lead-in.

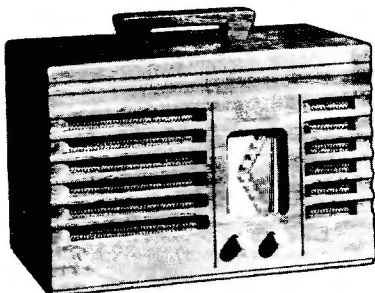
Power-Supply Polarity.—For operation on d-c, the power plug must be inserted in the outlet for correct polarity. If the set does not function, reverse the plug. On a-c, reversal of the plug may reduce hum.

Victrola Attachment.—A jack is provided on the rear of cabinet for connecting a Victrola Attachment into the audio-amplifying circuit. The cable from the Victrola Attachment should be terminated in a Stock No. 31048 plug to fit the jack.

Steps	Connect the high side of test-oscillator to—	Tune test-osc. to—	Turn radio dial to—	Adjust the following for max. peak output—
1	Tuning condenser stator (osc.) in series with .01 mfd.	455 kc	Quiet point at 1,600 kc end of dial	C1, C2, C3, C4 (1st and 2nd I-F transformers)
2	Antenna term. of ant. loop in series with 100 mmfd.	1,720 kc	Full clockwise (out of mesh)	C5 (oscillator)
3		1,500 kc	Resonance on 1,500 kc signal	C6 (antenna)

Precautionary Lead Dress

1. Dress 2nd I-F green lead close to chassis and under other parts.
2. Dress lead from gang condenser to grid of 12SA7 close to chassis and away from 12SQ7 socket.
3. Dress blue 1st I-F lead under volume control close to chassis.
4. Dress blue 2nd I-F lead close to chassis and behind 12SK7 socket.



POWER SUPPLY RATINGS

A-C Rating 105-125 volts, 50-60 cycles, 30 watts
 D-C Rating 105-125 volts, direct current, 30 watts

POWER OUTPUT (125 volt, 60 cycle supply)

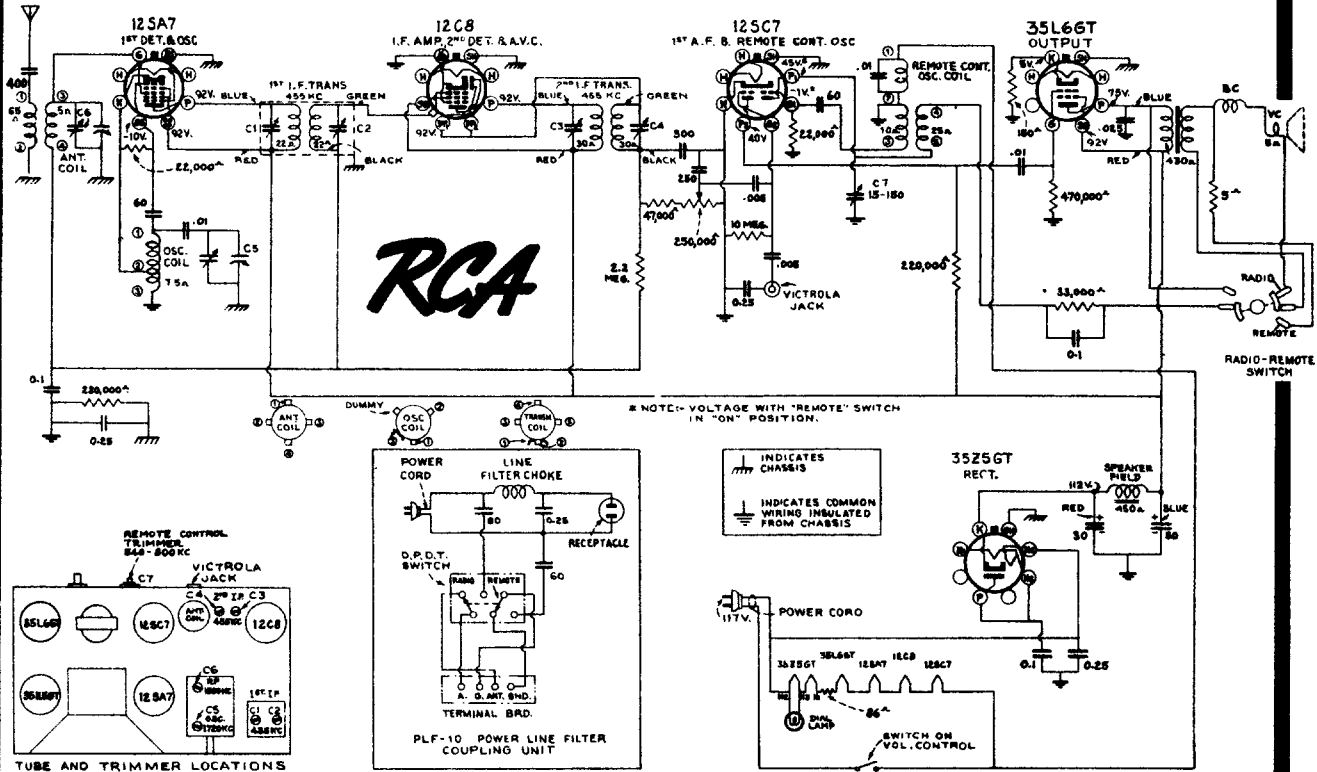
Undistorted 1.5 watts
 Maximum 2.0 watts

LOUDSPEAKER

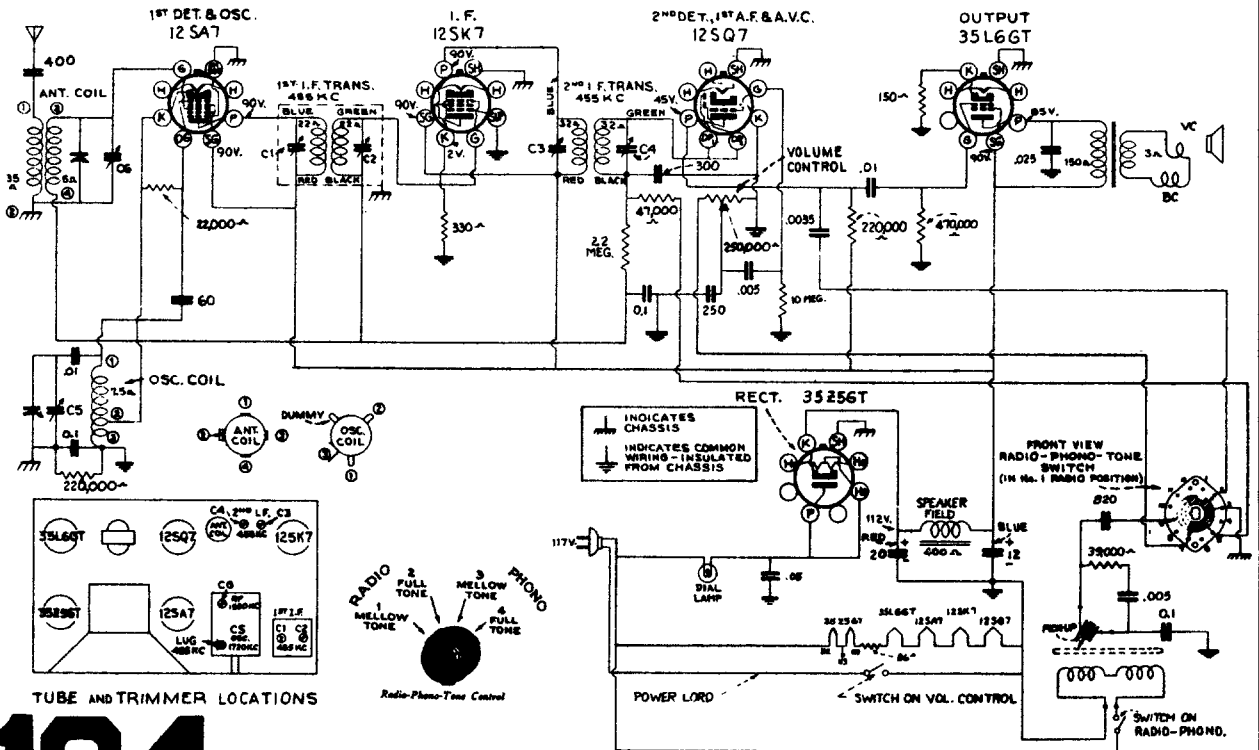
Type 4-inch Electrodynamic

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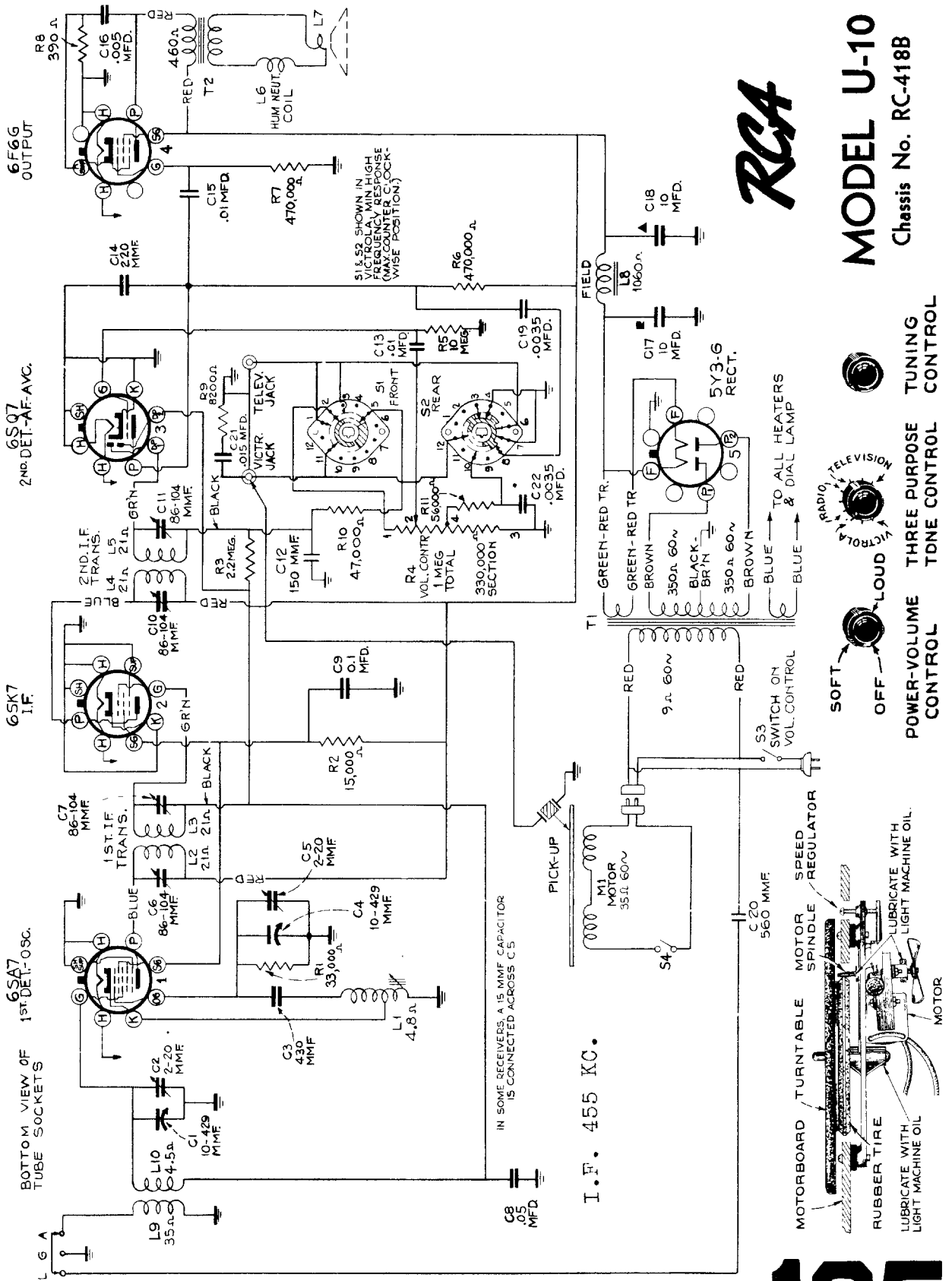
Model 5X5 Series (Chassis No. RC-406)



RCA Victor MODEL U-8 (Chassis No. RC-404A)

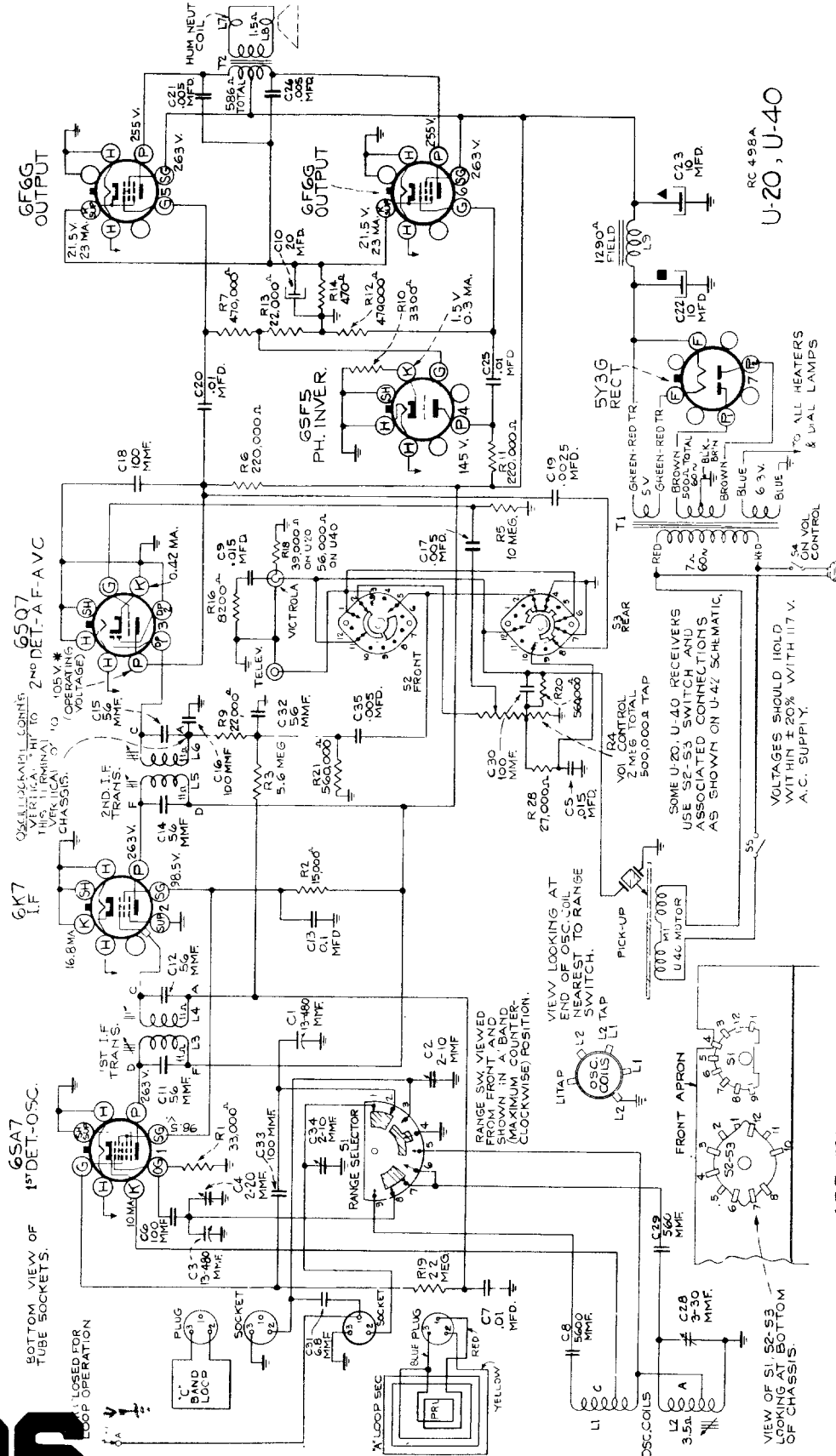


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RCA

MODEL U-10
Chassis No. RC-418B

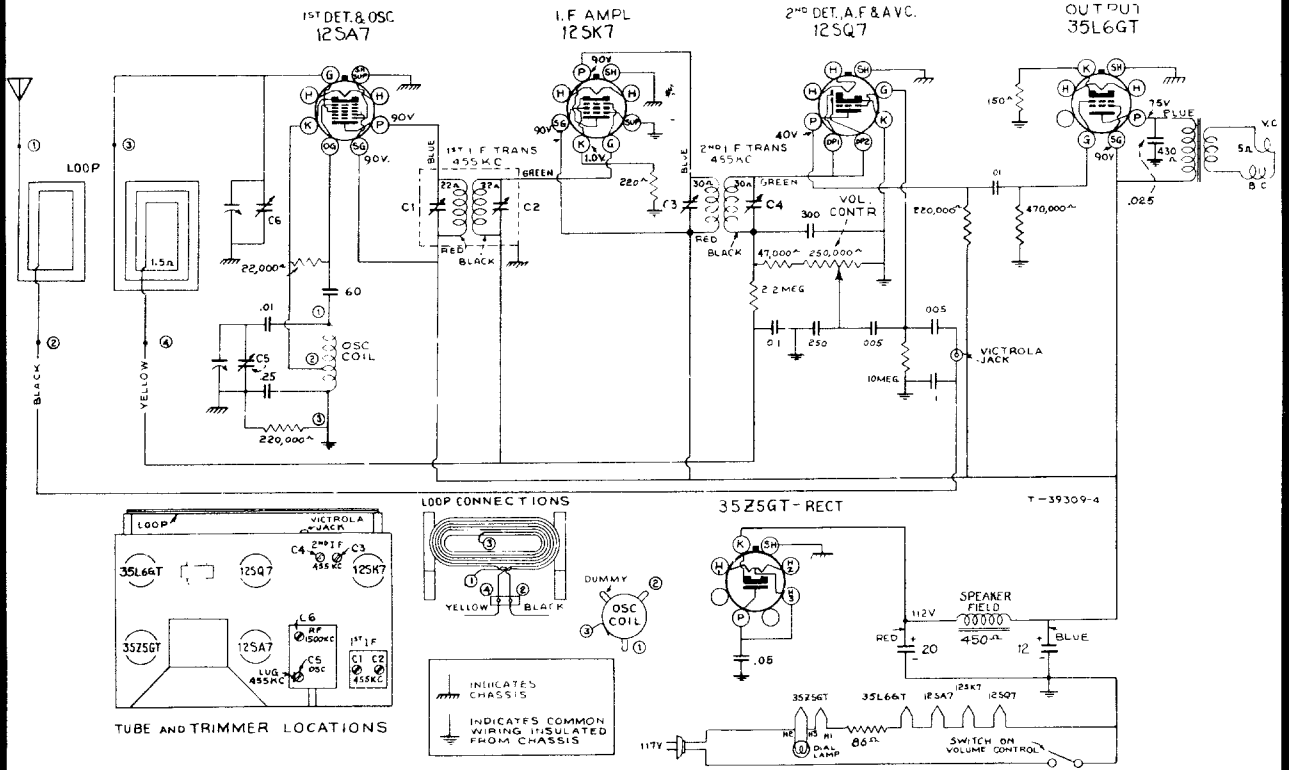


RC 498A
U-20, U-40

I.F. 455 KC.

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

Models 40X-30 and 40X-31 (Chassis No. RC405C & D)



Output Meter Alignment.—Connect the meter across the voice coil, and turn the receiver volume control to maximum.

Test-Oscillator.—Connect the low side of the test-oscillator to the receiver chassis, through a .01 mfd. capacitor, and keep the output as low as possible.

Pre-setting Dial.—With gang condenser in full mesh, the pointer should be horizontal.

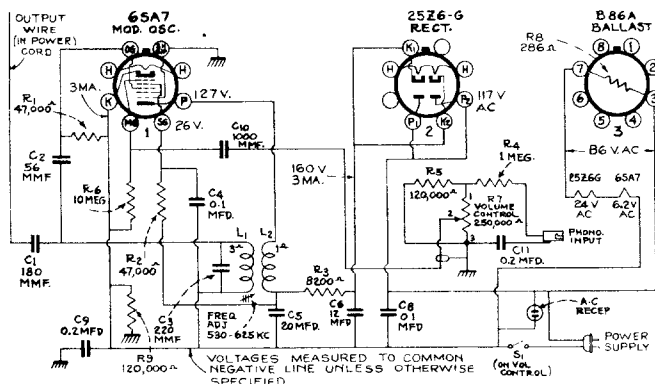
Antenna.—The set is equipped with a built-in loop antenna. If an outdoor antenna is used, it may be connected to the "ANT." terminal on rear of cabinet. It should not be longer than 100 feet, including lead-in. If it is longer, connect a 100 to 200 mmf. capacitor in series with the lead-in.

Power-Supply Polarity.—For operation on d-c, the power plug must be inserted in the outlet for correct polarity. If the set does not function, reverse the plug. On a-c, reversal of the plug may reduce hum.

Steps	Connect the high side of test-oscillator to—	Tune test-osc. to—	Turn radio dial to—	Adjust the following for max. peak output—
1	Tuning condenser stator (osc.) in series with .01 mfd.	455 kc	Quiet point at 1,600 kc end of dial	C1, C2, C3, C4 (1st and 2nd I-F transformers)
2	Antenna term. of ant. loop in series with 100 mmfd.	1,680 kc	Full clockwise (out of mesh)	C5 (oscillator)
3		1,500 kc	Resonance on 1,500 kc signal	C6 (antenna)

Precautionary Lead Dress

1. Dress 2nd I-F green lead close to chassis and under other parts.
2. Dress lead from gang condenser to grid of 12SA7 close to chassis and away from 12SQ7 socket.
3. Dress blue 1st I-F lead under volume control close to chassis.



RCA

OSC-22

Wireless Oscillator

107

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

RCA Victor MODELS BK-41 and BT-41

Cathode-ray Alignment is the preferable method. Connections for the oscillograph are as follows: Vertical "Hi" to E on the 2nd I-F transformer. Vertical "O" to chassis.

Output Meter Alignment.—If this method is used, connect the meter across the voice coil, and turn the receiver volume control to maximum.

Test-Oscillator.—For all alignment operations, connect the low side of the test-oscillator to the receiver chassis, and keep the output as low as possible to avoid a-v-c action.

For additional details, refer to booklet "RCA Victor Receiver Alignment."

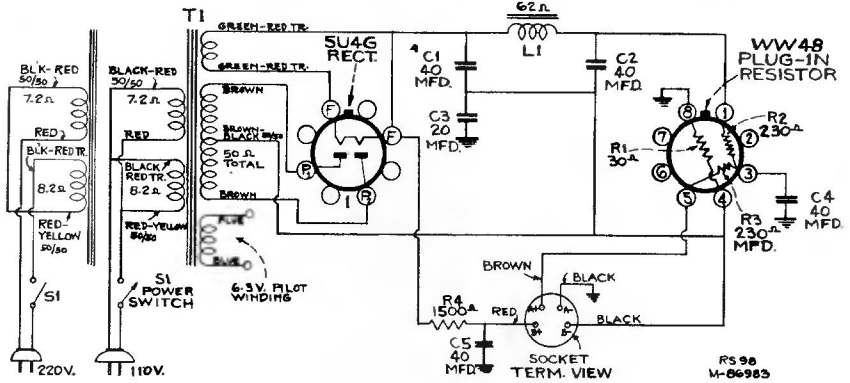
Pre-setting Dial.—With gang condenser in full mesh, the pointer should be horizontal.



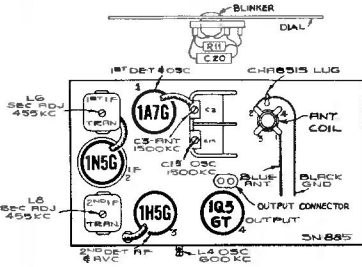
Model BK-41

Steps	Connect the high side of test-oscillator to—	Tune test-osc. to—	Turn radio dial to—	Adjust the following for max. peak output
No. 1	1N5-G I-F grid cap, in series with 0.01 mfd.	455 kc	Quiet point between 550-750 kc	L7 and L8 (2nd I-F transformer)
No. 2	1A7-G 1st-det. grid cap in series with 0.01 mfd.	455 kc		L5 and L8 (1st I-F transformer)
No. 3	Antenna lead, in series with 200 mmfd.	600 kc	600 kc	L4 (oscillator) L2 (antenna)
No. 4	Antenna lead, in series with 200 mmfd.	1,500 kc	1,500 kc	C15† (oscillator) C3 (antenna)

† Trimmer C16 on gang condenser should be unscrewed one complete turn from tight, before adjusting C15.



Schematic Diagram—Model CV-40



Precautionary Lead Dress

1. Red lead from second i-f transformer to screen terminal of 1N5-G must be dressed close to and along edge of chassis.
2. Twisted green wire from antenna coil to gang must be 9 turns and kept clear of rotor.
3. Blue and green leads to volume control must be dressed close to chassis and between gang and front apron.
4. The opening in the shield of the 1N5-G should be turned away from the chassis and the i-f transformers.
5. Antenna and ground wires should be twisted together.

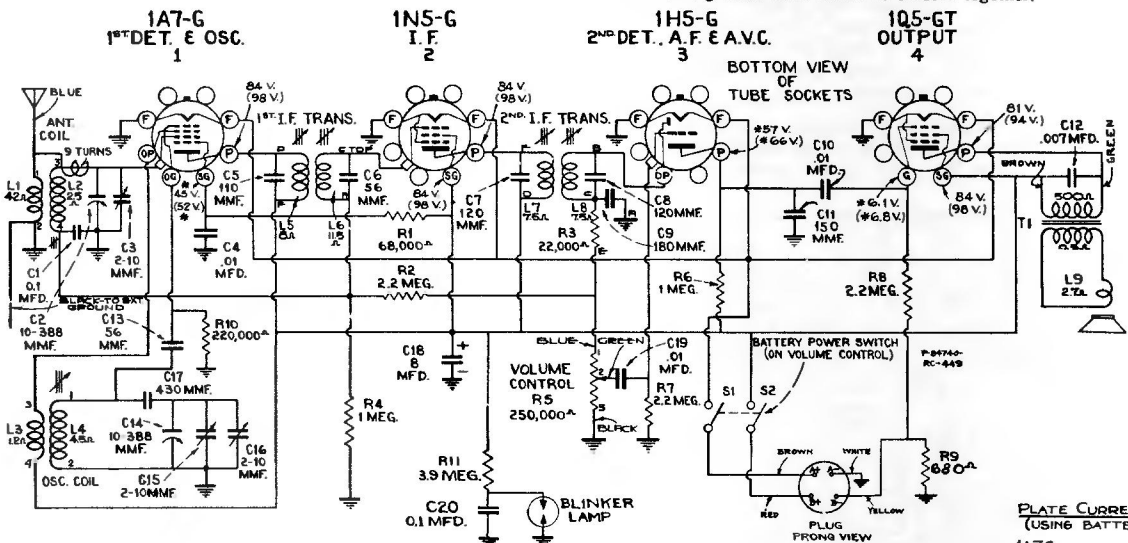


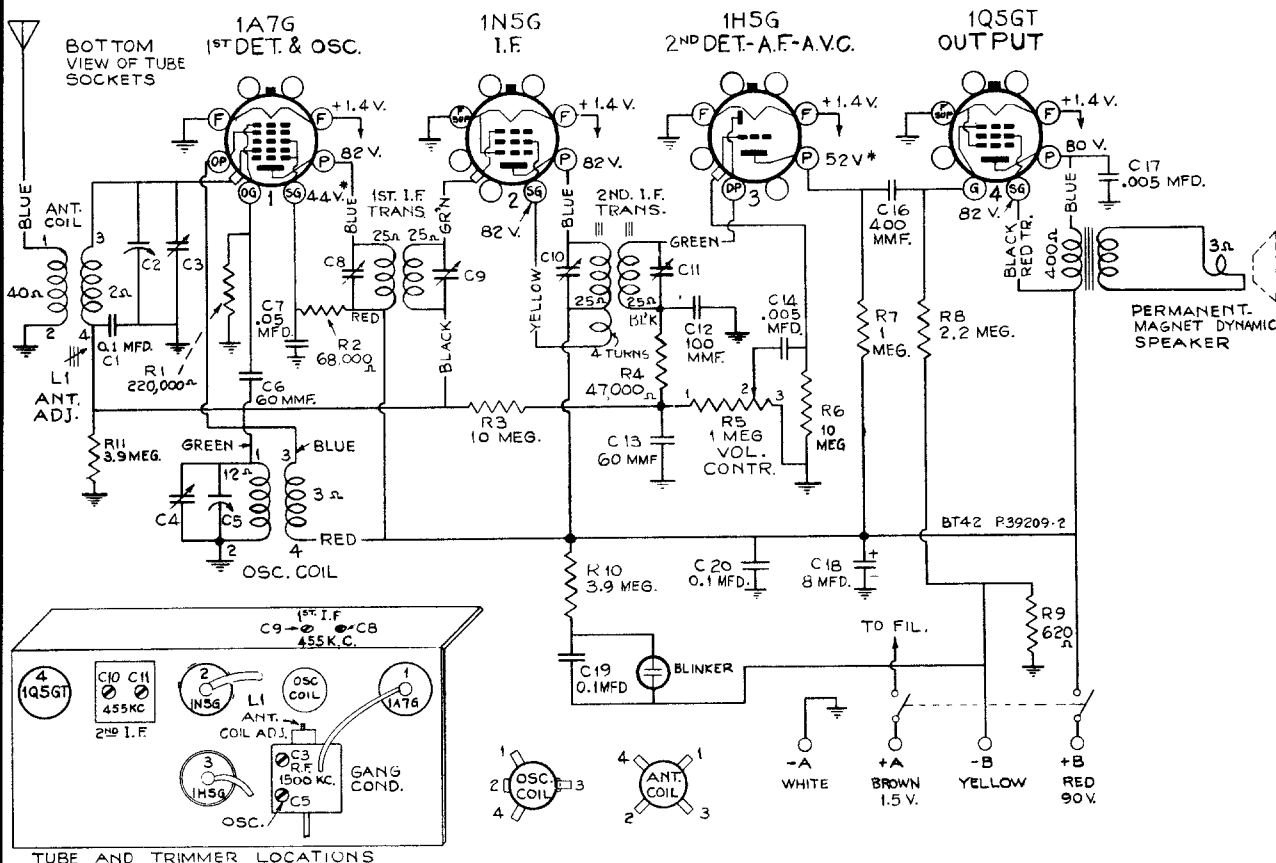
PLATE CURRENTS (USING BATTERIES)

1A7G	OSC. ----- 0.85 MA.
DET.	----- 0.49 MA.
1N5G	----- 1.2 MA.
1H5G	----- 0.26 MA.
1Q5GT	----- 6.0 MA.

STARRED (*) VOLTAGES ARE OPERATING VOLTAGES IN CIRCUITS WITH HIGH SERIES RESISTANCE, THE ACTUAL MEASURED VOLTAGES WILL BE LOWER, DEPENDING ON THE VOLTMETER LOADING.

VOLTAGES IN PARENTHESES ARE THOSE OBTAINED BY USING POWER SUPPLY CV-40. WHEN BATTERIES ARE USED VOLTAGES NOT IN PARENTHESES APPLY.

MODEL BT-42



Alignment Procedure

Output Meter Alignment.—If this method is used, connect the meter across the voice coil, and turn the receiver volume control to maximum.

Test-oscillator.—For all alignment operations, keep the output as low as possible to avoid a-v-c action.

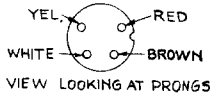
Pre-setting Dial.—With the gang condenser fully out of mesh, the indicator should point to the extreme right (high frequency) mark on the dial scale.

CAUTION.—When ready to install or replace batteries or tubes or to make any repairs or changes, be sure to turn off power switch.

Precautionary Lead Dress.

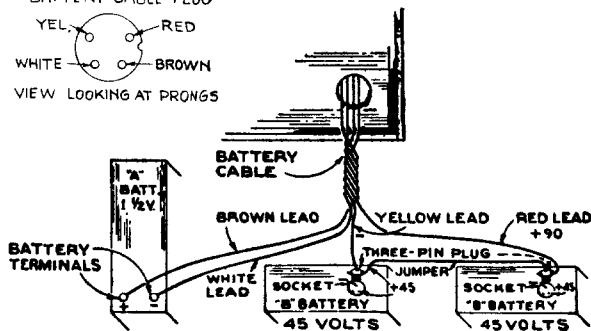
1. All filament (brown) and B+ (red) leads must be dressed away from unshielded I.F. coil.
2. Green grid lead of 1A7G tube to be twisted around antenna (blue) lead for capacity coupling.
3. Red and brown battery cable leads to be dressed and held against front apron with tape.

BATTERY CABLE PLUG



Steps	Connect the high side of test-oscillator to—	Tune test-osc. to—	Turn Radio Dial to—	Adjust the following for max. peak output—
1	1A7G 1st-Det. grid cap, in series with .01 mfd.	455 kc	Quiet point at 550 kc End of Dial	C8, C9, C10, C11 (1st and 2nd I-F transformers)
2	Antenna lead (blue) in series with 100 mfd.	1,500 kc	1,500 kc	C5 (oscillator)
3		600 kc	600 kc	L1 (antenna)*
4		1,500 kc	1,500 kc	C3 (antenna)

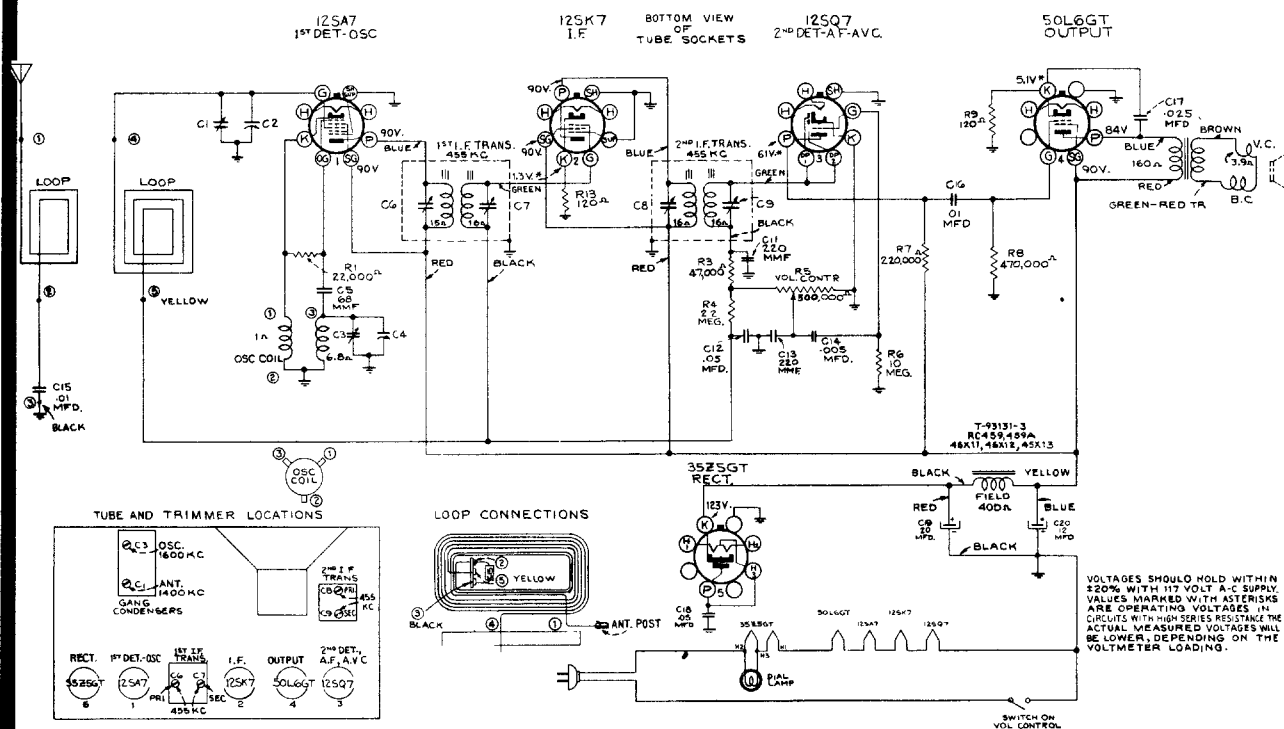
* When adjusting L1 (antenna), trimmer C3 should be in a minimum capacity position (unscrewed).



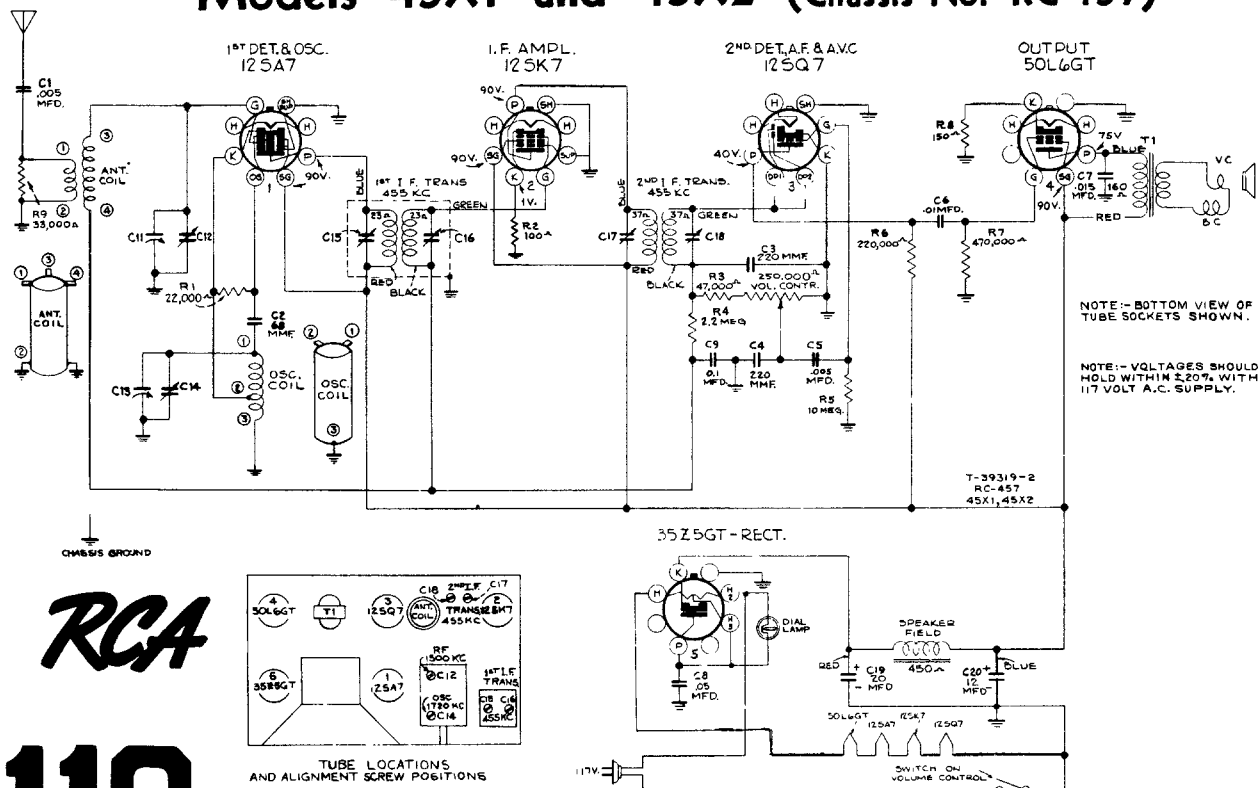
SEPARATE 'A' AND 'B' BATTERIES

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

Models 45X11, 45X12 Model 45X13



Models 45X1 and 45X2 (Chassis No. RC-457)



RCA

110

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

MODEL O-50 PORTABLE VICTROLA

(phonograph only)

The Model O-50 Portable Electric Victrola consists of a crystal pickup, a two-stage audio amplifier, and eight-inch electrodynamic speaker, and a motor turntable mechanism with automatic mercury switch for starting and stopping—all housed in a portable carrying case of modern design and appearance.

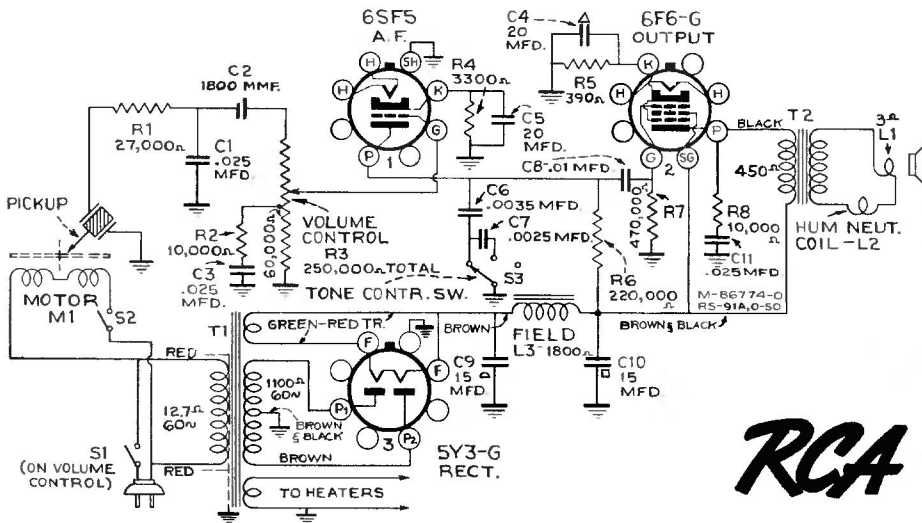
The phonograph motor is a self-starting, constant-speed induction type. It should be lubricated every six months by applying a few drops of light machine oil to the spindle bearing and oil hole.

The motor spindle is tapered, and a conical rubber piece fits snugly on the spindle. The hole in the turntable bushing

is tapered to fit the rubber. This provides an excellent self-centering floating mounting.

A metal washer is placed on the spindle under the rubber piece. The washer has ears on the under side which fit over a pin that projects through the spindle.

The motor switch is automatic for both starting and stopping, and when properly adjusted, will turn the motor on as the pickup is moved from the pickup rest toward the turntable. The switch should be adjusted so that it will snap into the "off" position when the pickup needle is 1 3/4 inches from the center line of the spindle. The motor may be shut off at any time by placing the pickup on the pickup rest.

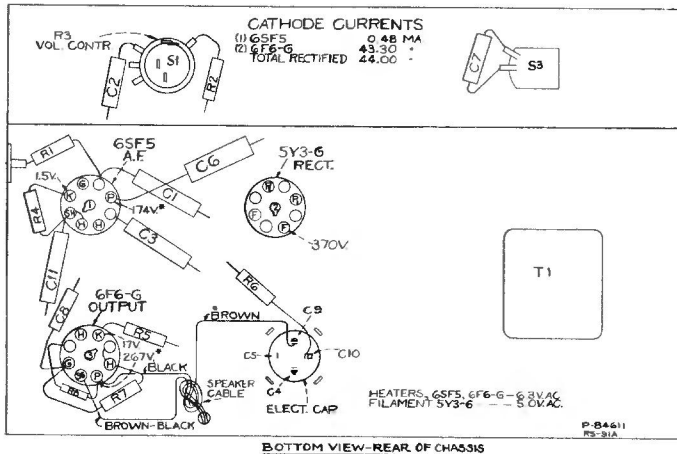


Schematic Circuit Diagram



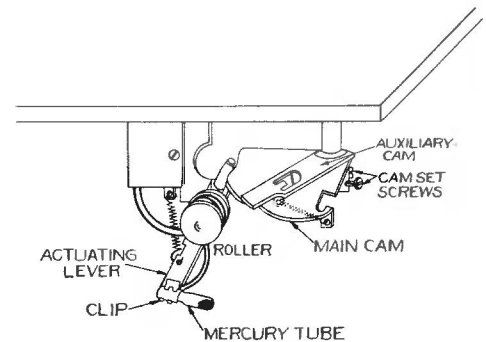
Model O-50

RCA



Parts Layout and Socket Voltages

Measurements made to chassis unless otherwise indicated, with set tuned to quiet point, volume control at minimum. Values should hold within approximately $\pm 20\%$ with 117-volt a-c supply.

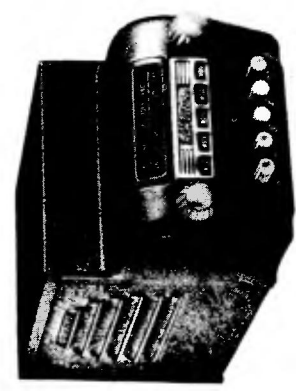
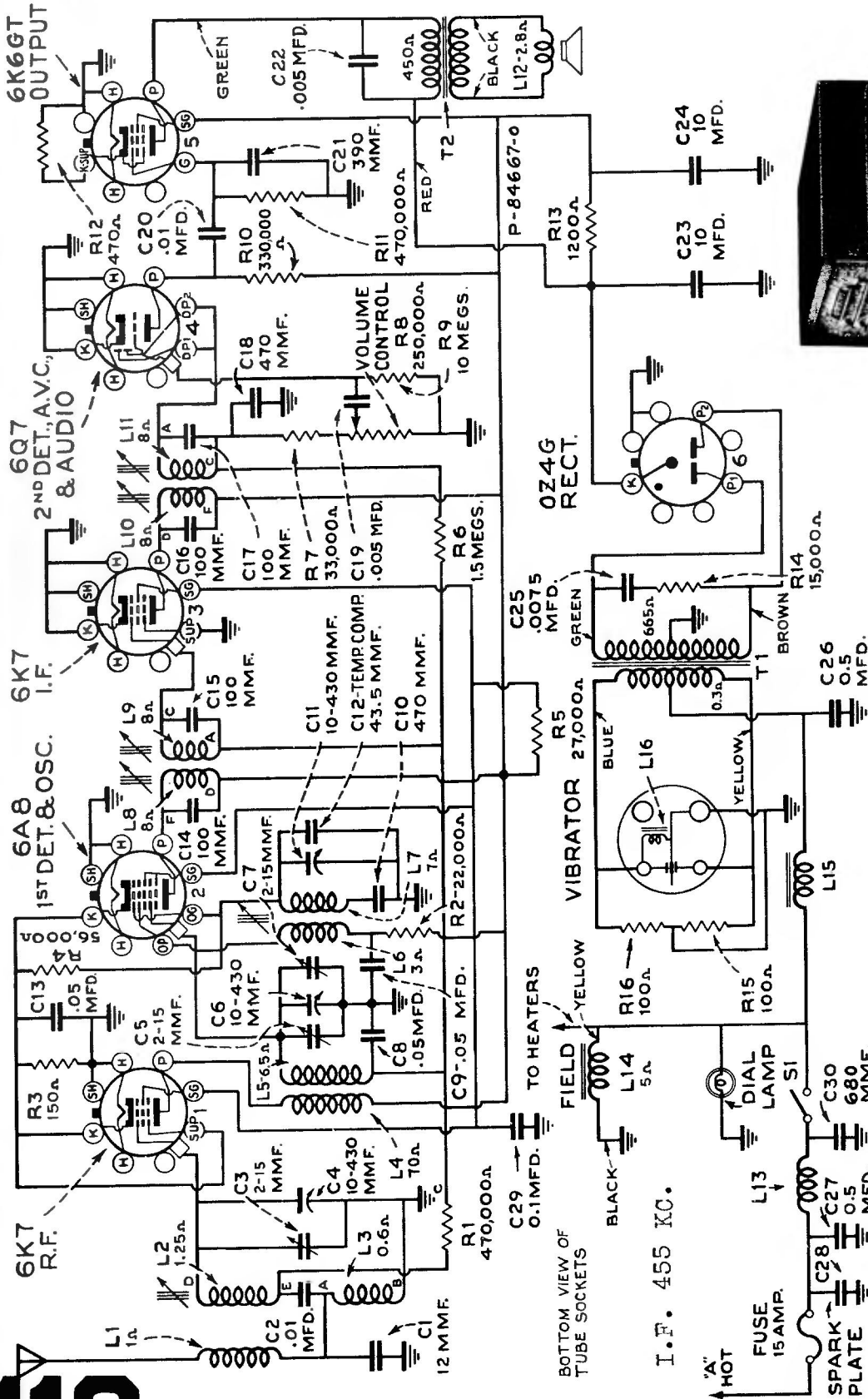


ADJUST MAIN CAM SO THAT SWITCH TRIPS INTO THE "OFF" POSITION WHEN NEEDLE IS 1 3/4 INCHES FROM THE CENTER LINE OF MOTOR SPINDLE.

Switch Mechanism
(Shown with pickup in rest position)

NOTE: Values with star () are operating voltages in circuits with high series-resistance, and when measured will read lower depending on the voltmeter loading.

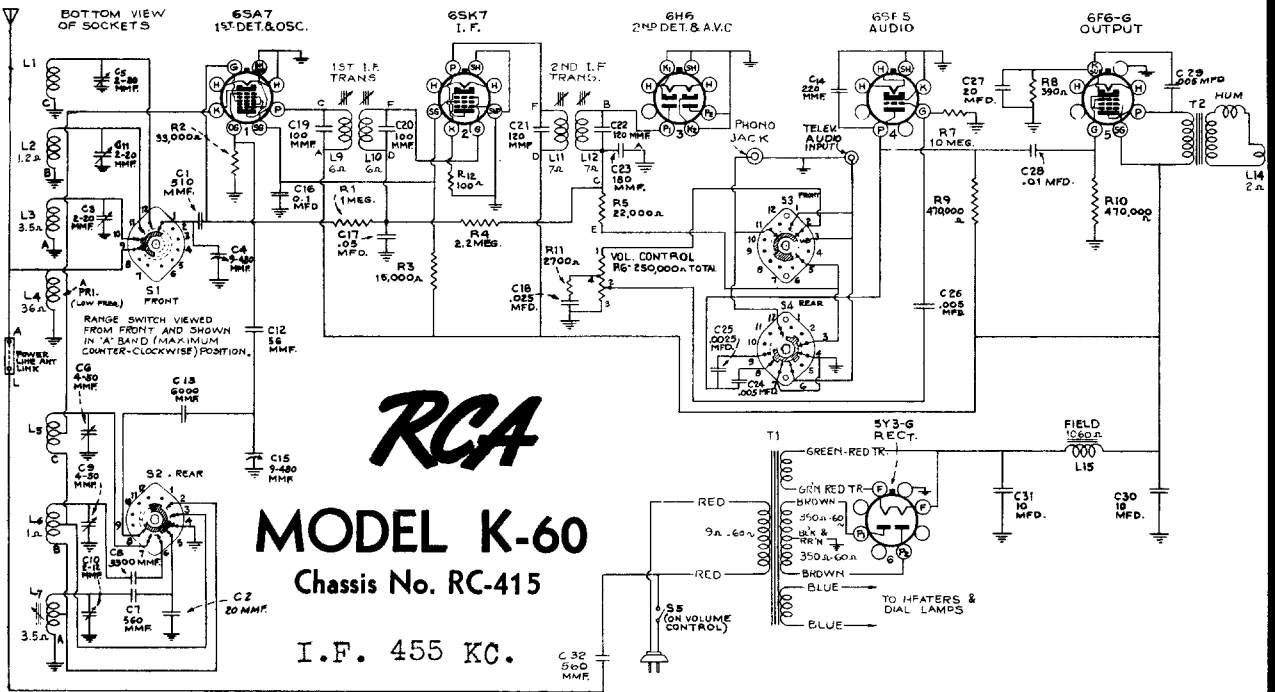
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



MODEL M60
Chassis No. RC 357K



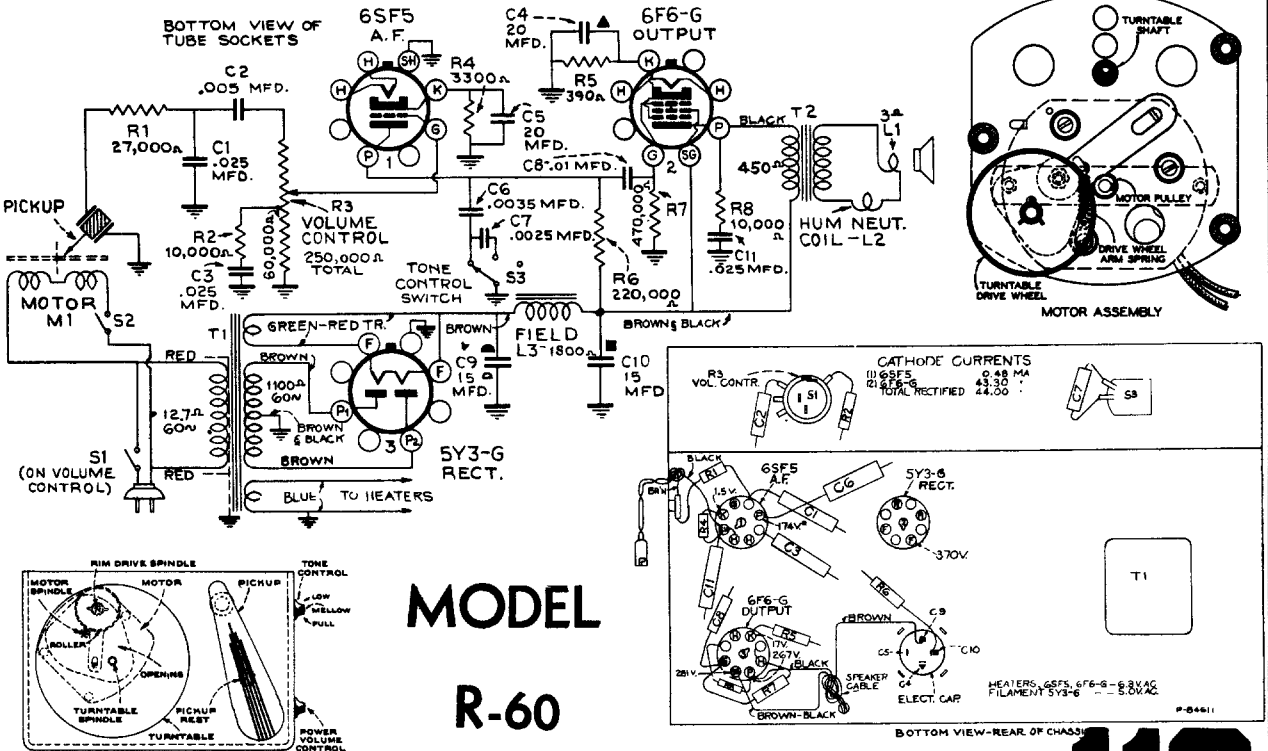
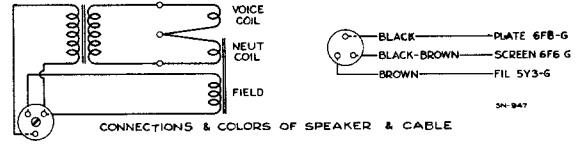
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



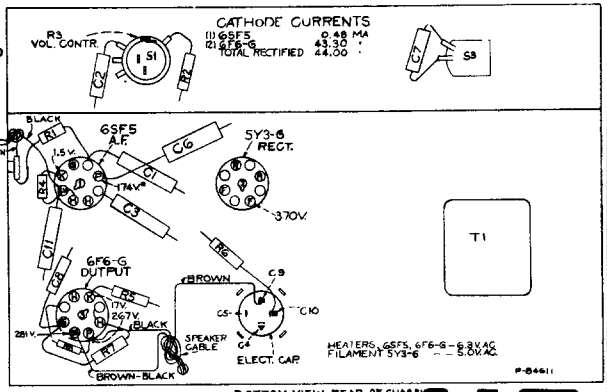
RCA
MODEL K-60
 Chassis No. RC-415
 I.F. 455 KC.

Note: On some receivers the following circuit modifications are in effect:

1. R11 is 4,700 ohms, and C18 is .05 mfd.
2. C1 is 470 mmd.
3. There are three types of 2nd I-F transformers in use.
 - a. The first type (Stock No. 14308) has C23 and R5 mounted inside the case, and is connected exactly as shown above.
 - b. In the second type R5 is omitted and the lead from S4 connects to C instead of E. E is not used.
 - c. In the third type R5 is omitted and C23 is connected externally from C to ground. E is not used. The lead from the diode plate connects to A instead of B.



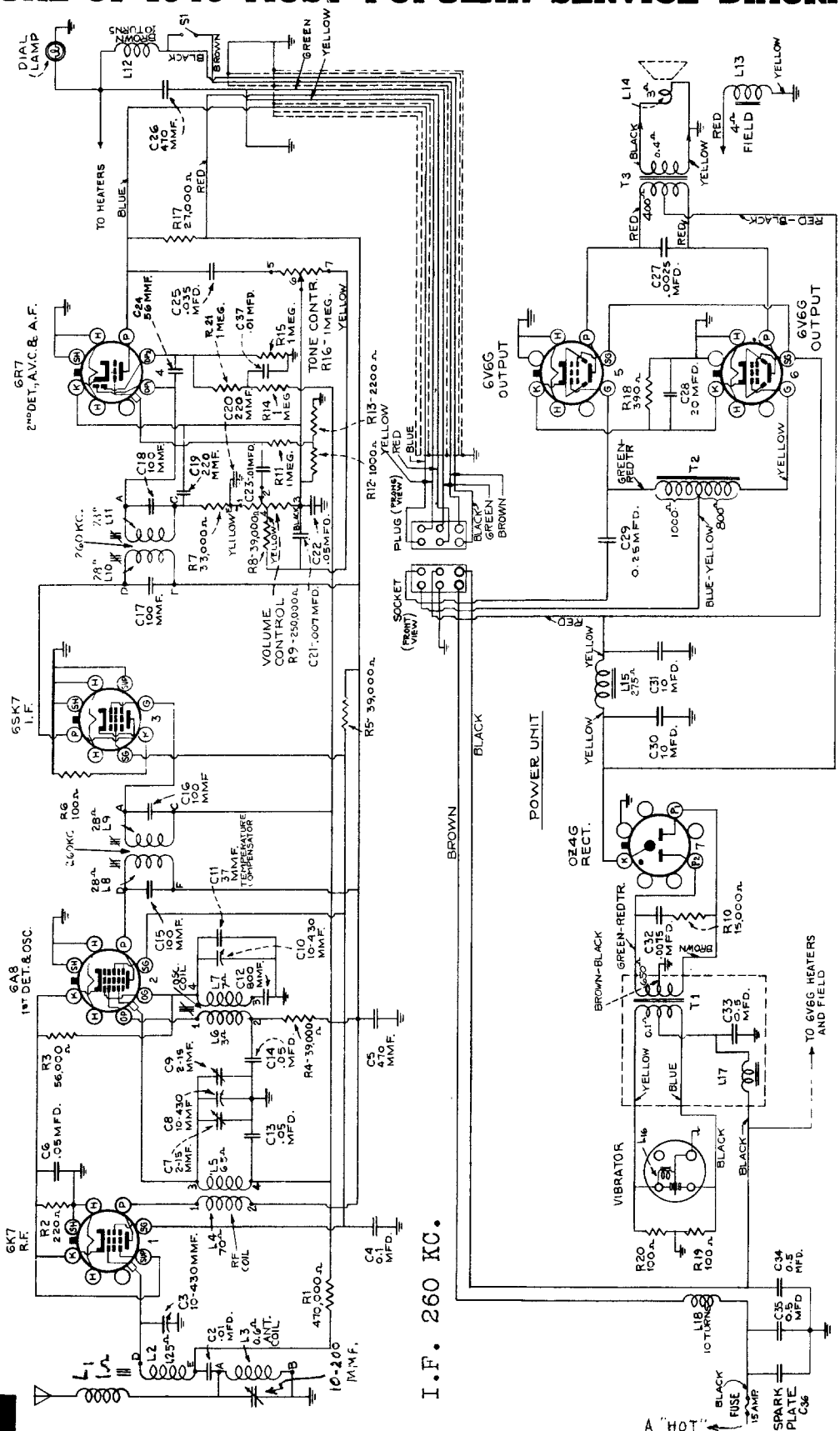
MODEL
R-60



MODEL M-70

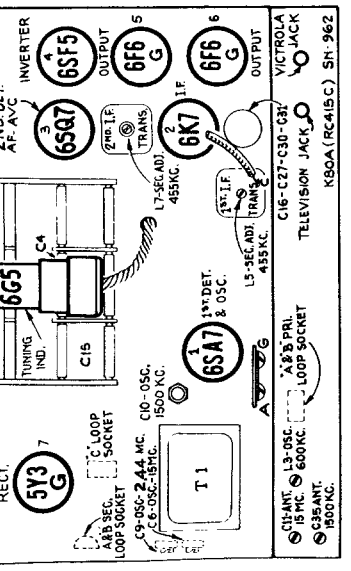
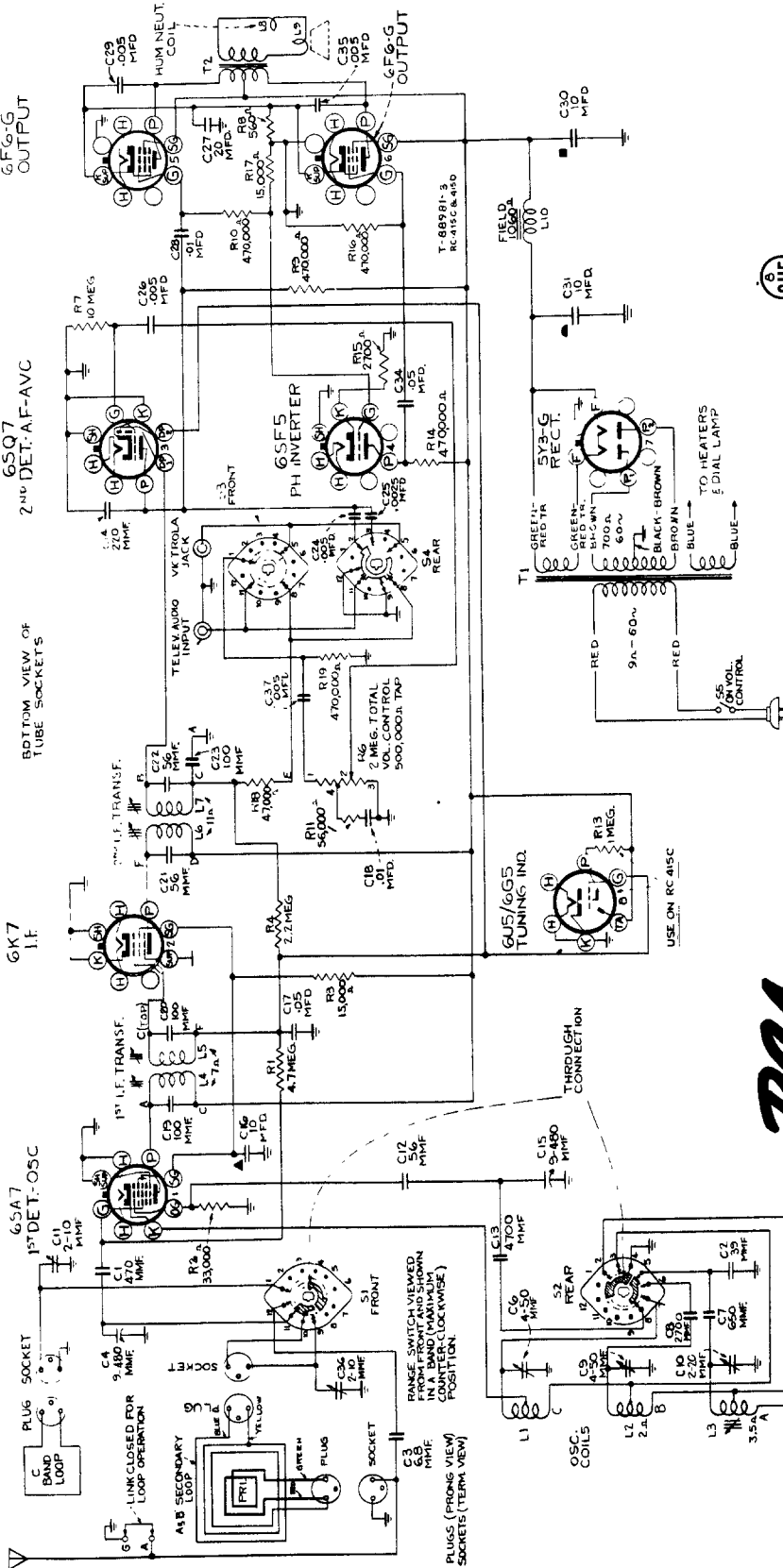
RCA

114



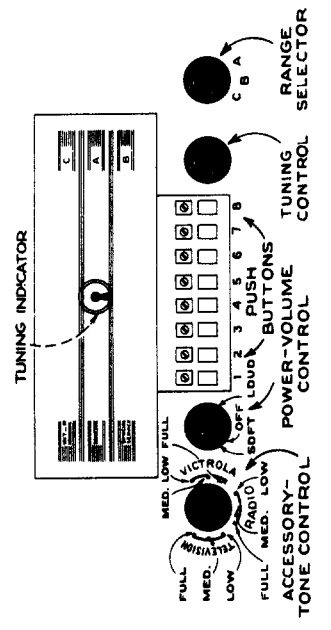
I.F. 260 KC.

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



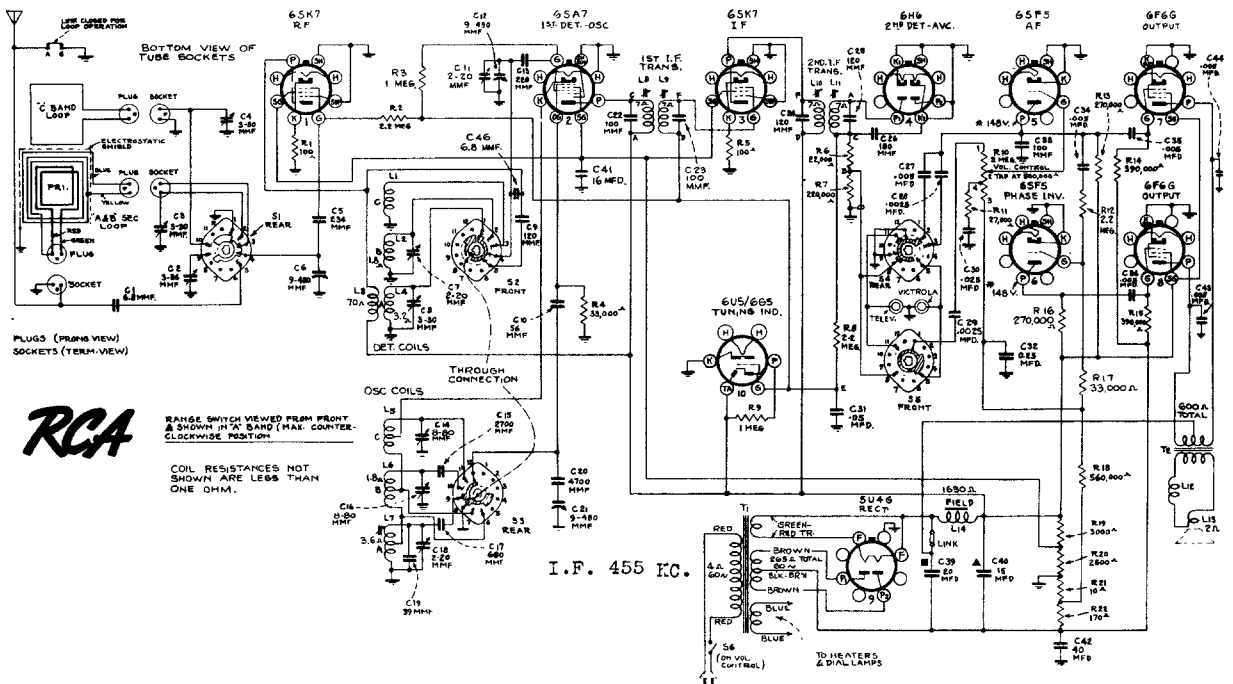
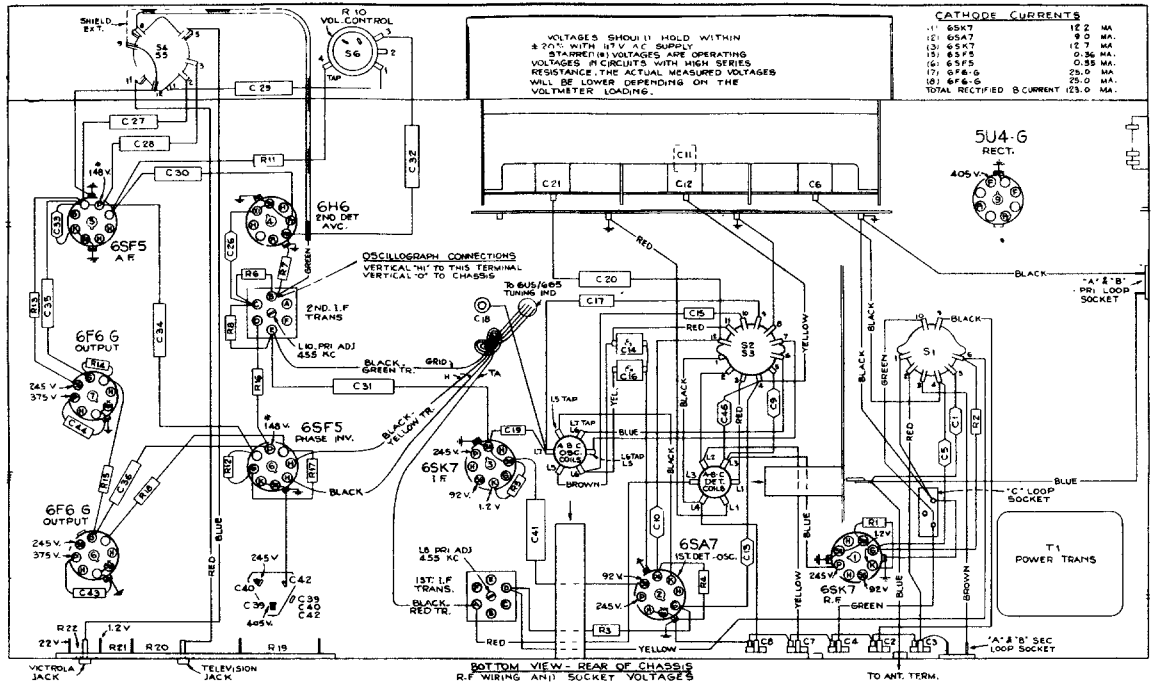
Models K-80 and K-81

Models K-80, K-81



MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

MODEL K-105

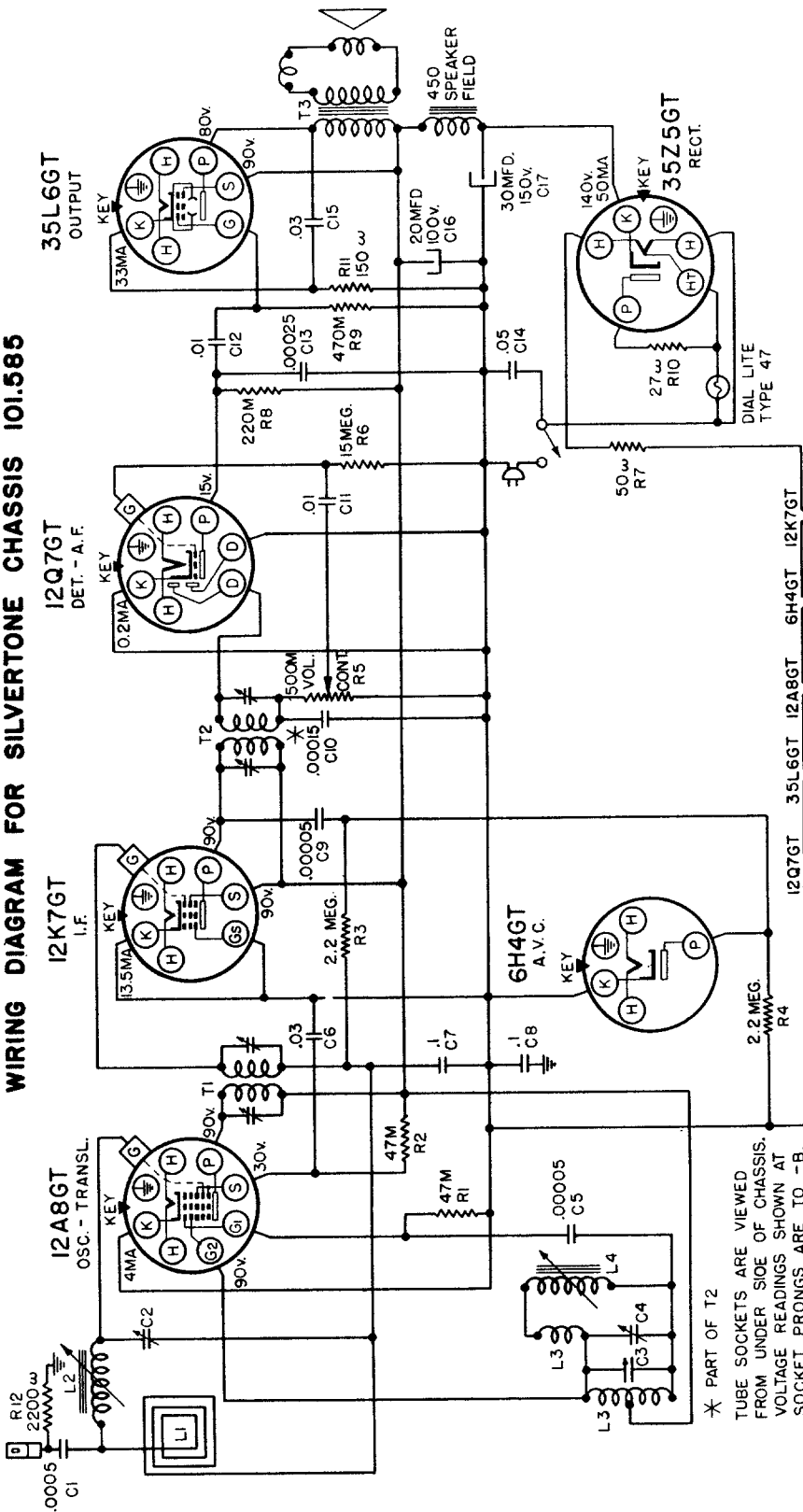


RCA

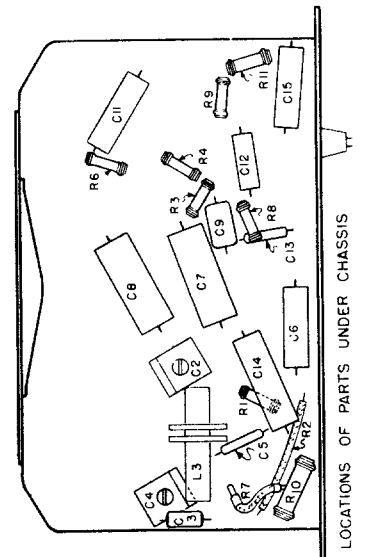
RANGE SWITCH VIEWED FROM FRONT & SHOWN IN 'A' BAND (REAL CORRECT). CLOCKWISE POSITION.

COIL RESISTANCES NOT SHOWN ARE LESS THAN ONE OHM.

WIRING DIAGRAM FOR SILVERTONE CHASSIS 101.585

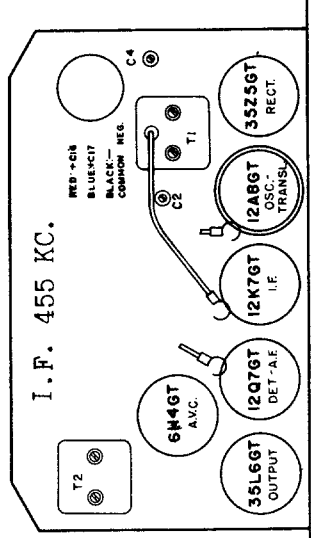


* PART OF T2
 TUBE SOCKETS ARE VIEWED FROM UNDER SIDE OF CHASSIS. VOLTAGE READINGS SHOWN AT SOCKET PRONGS ARE TO -B, AND ARE TAKEN WITH NO SIGNAL. LINE VOLTAGE AT 117 VOLTS. WHERE NO READING IS GIVEN, THE VOLTAGE IS ZERO OR TOO LOW TO READ.



LOCATIONS OF PARTS UNDER CHASSIS

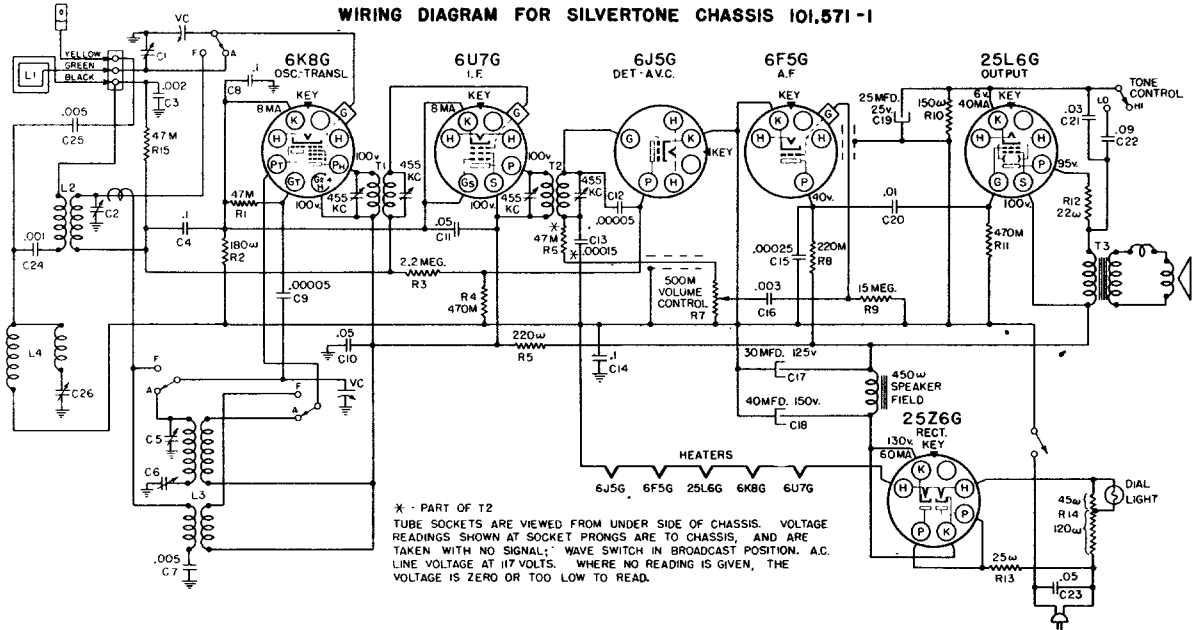
Sears Model 6320



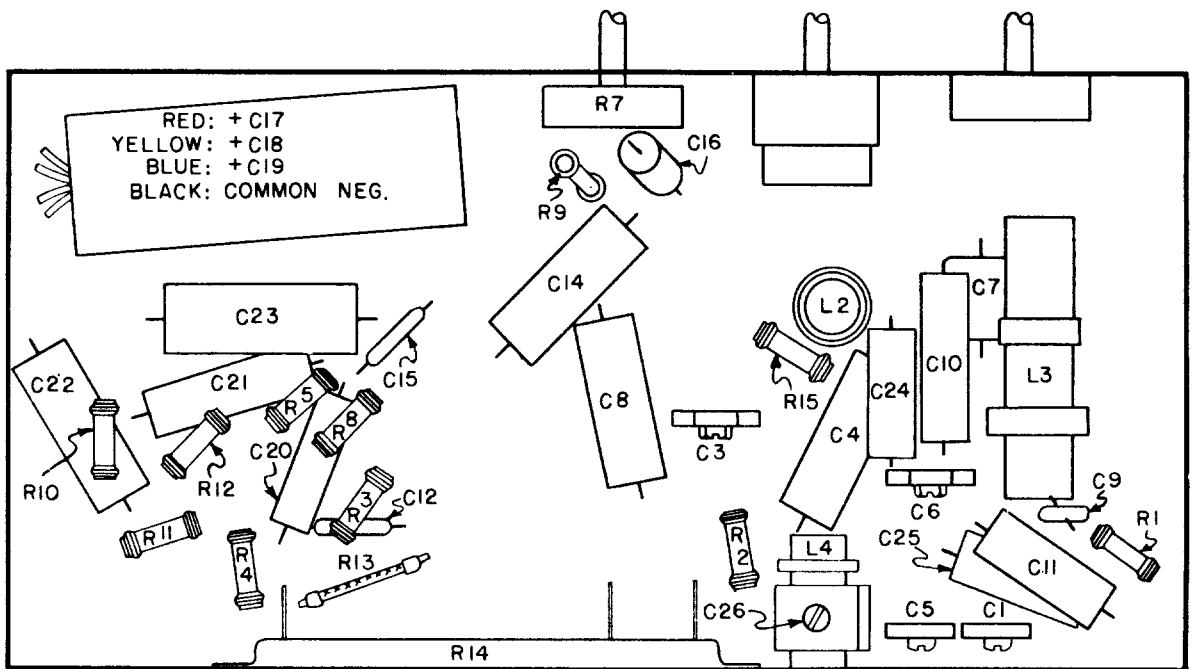
I.F. 455 KC.

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

WIRING DIAGRAM FOR SILVERTONE CHASSIS 101,571 -1



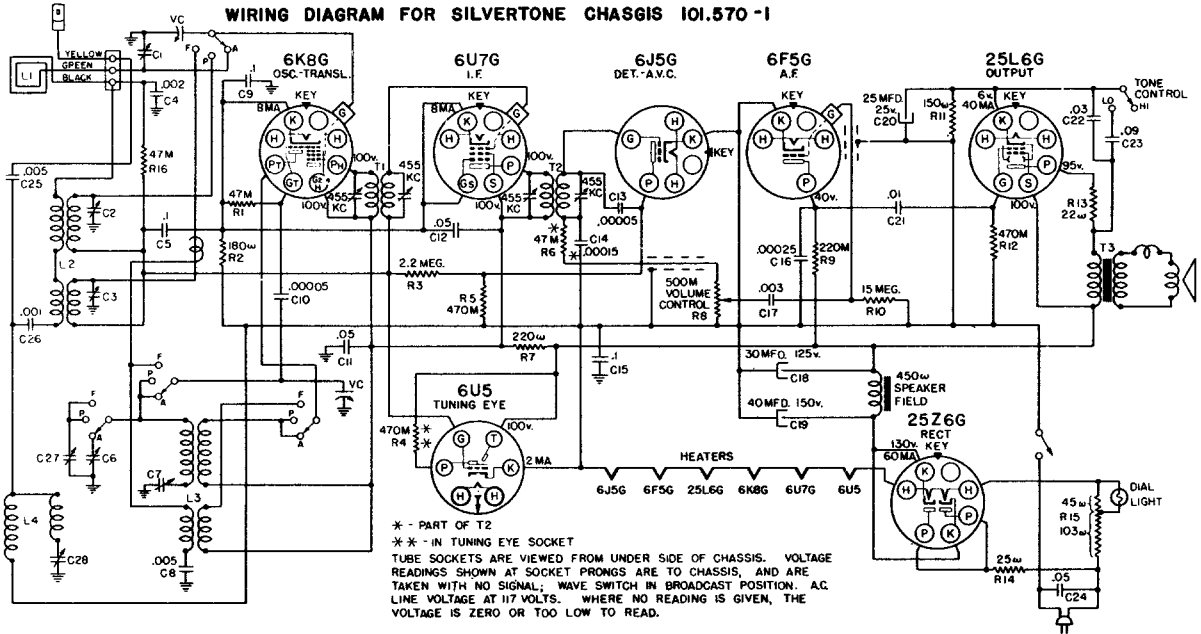
Sears Models 6321, 6322
6321, 6421



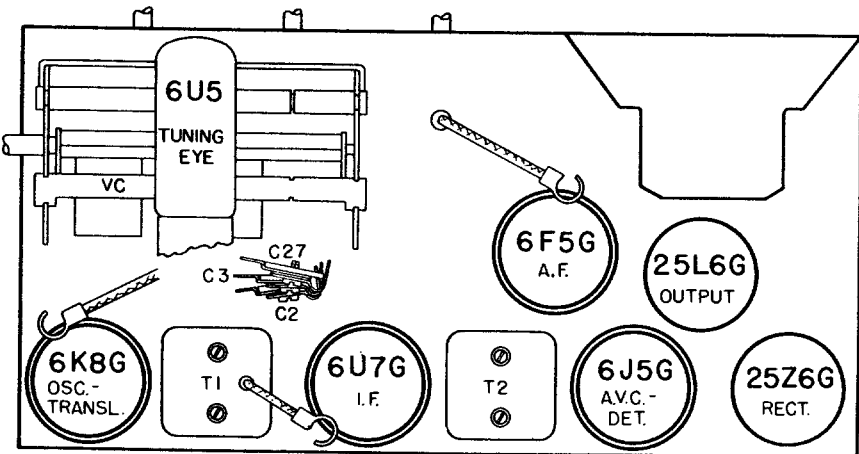
LOCATIONS OF PARTS UNDER CHASSIS.

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

WIRING DIAGRAM FOR SILVERTONE CHASGIS 101.570 -1



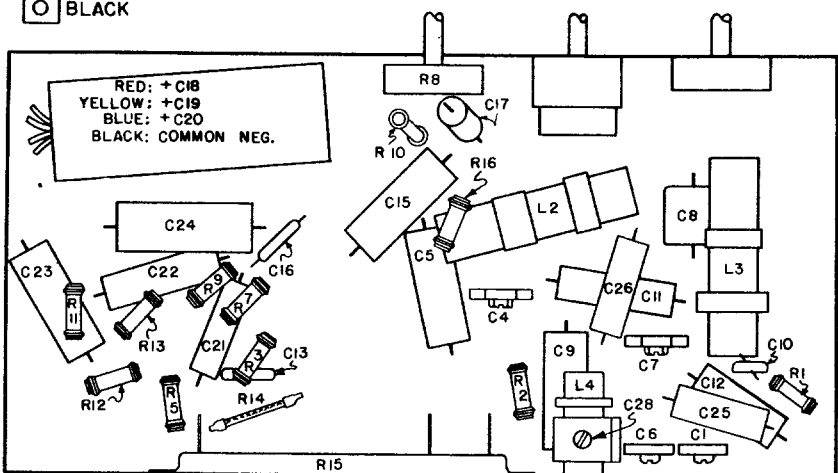
* - PART OF T2
 ** - IN TUNING EYE SOCKET
 TUBE SOCKETS ARE VIEWED FROM UNDER SIDE OF CHASSIS. VOLTAGE READINGS SHOWN AT SOCKET PRONGS ARE TO CHASSIS, AND ARE TAKEN WITH NO SIGNAL; WAVE SWITCH IN BROADCAST POSITION. A.C. LINE VOLTAGE AT 117 VOLTS. WHERE NO READING IS GIVEN, THE VOLTAGE IS ZERO OR TOO LOW TO READ.



- YELLOW
- GREEN
- BLACK

LOCATIONS OF PARTS ON TOP OF CHASSIS

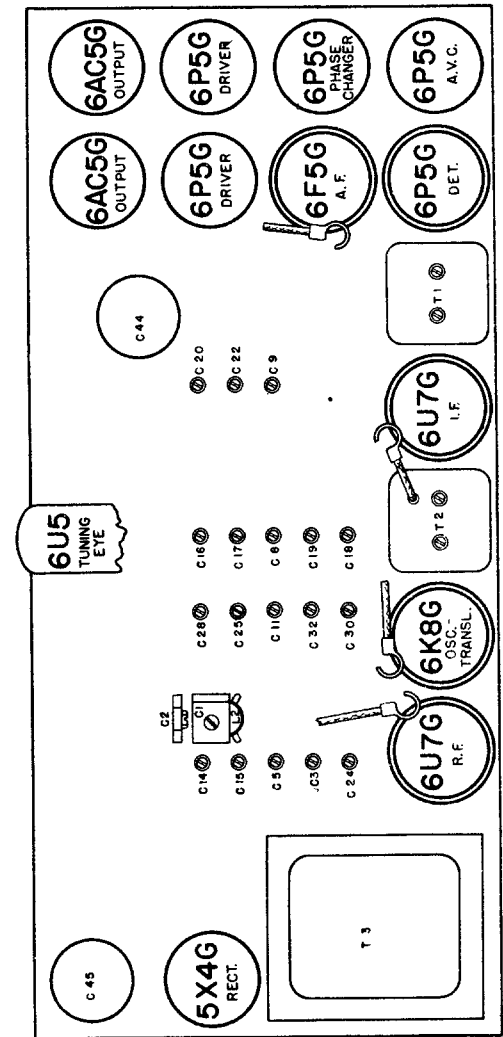
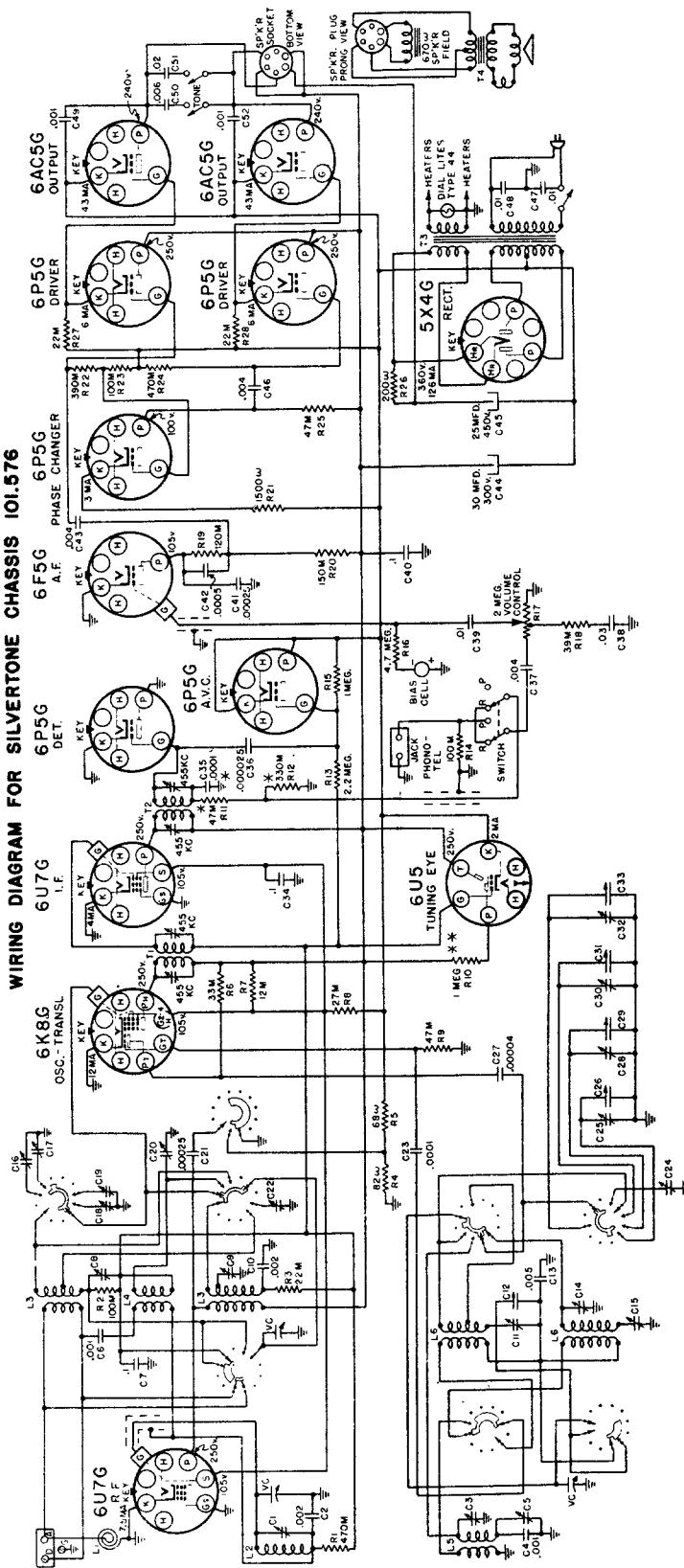
Sears Models 6324, 6424
6493



LOCATIONS OF PARTS UNDER CHASSIS.

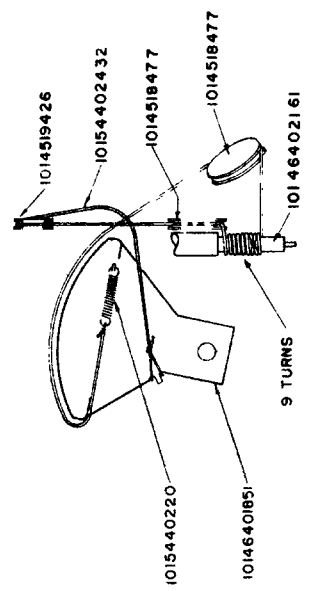
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

WIRING DIAGRAM FOR SILVERTONE CHASSIS 101.576



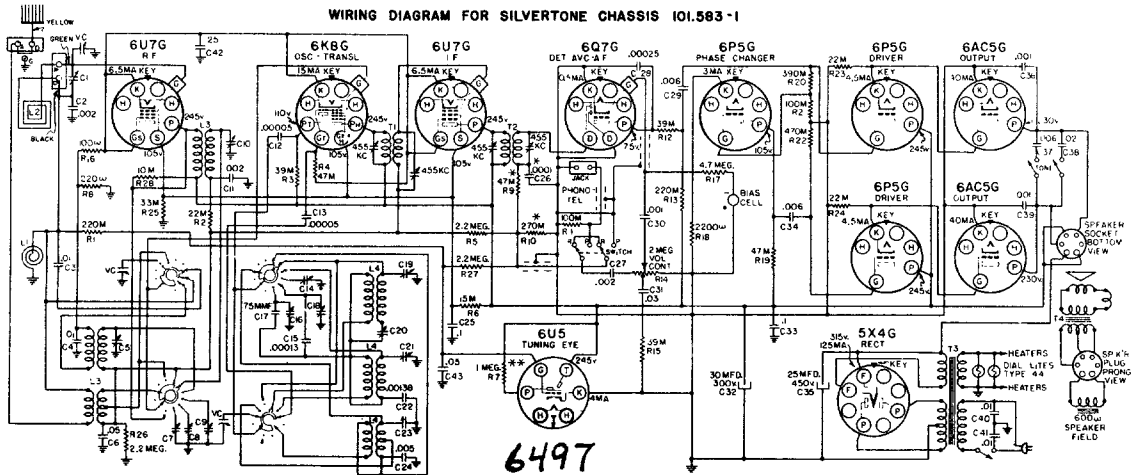
* - PART OF T2
 ** - IN TUNING EYE SOCKET
 TUBE SOCKETS ARE VIEWED FROM UNDER SIDE OF CHASSIS. VOLTAGE READINGS SHOWN AT SOCKET PRONGS ARE TO CHASSIS, AND ARE TAKEN WITH NO SIGNAL. WAVE SWITCH IN BROADCAST POSITION. LINE VOLTAGE AT 117 VOLTS. WHERE NO READING IS GIVEN, THE VOLTAGE IS ZERO OR TOO LOW TO READ.

Sears Models 6337, 6437



MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

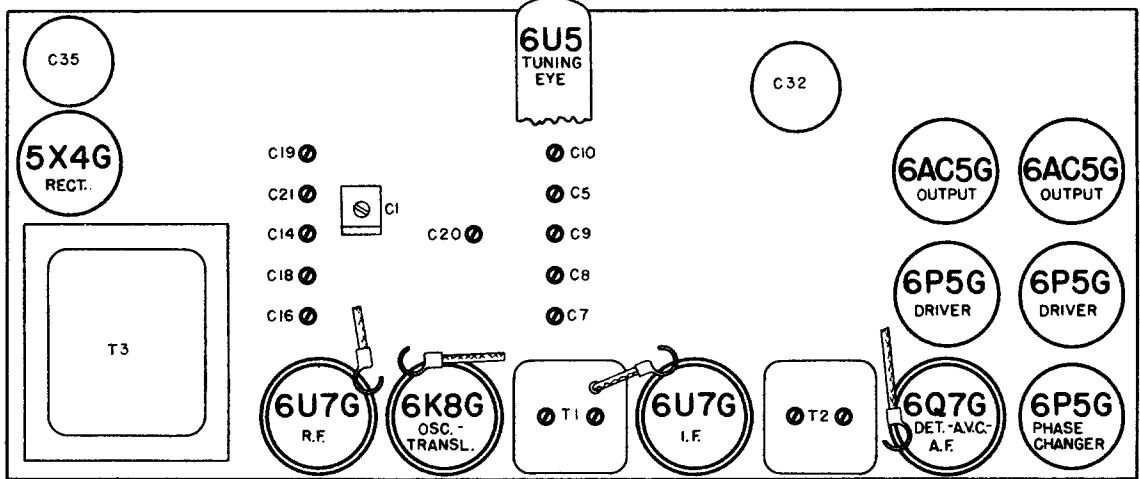
WIRING DIAGRAM FOR SILVERTONE CHASSIS 101.503-1



6497

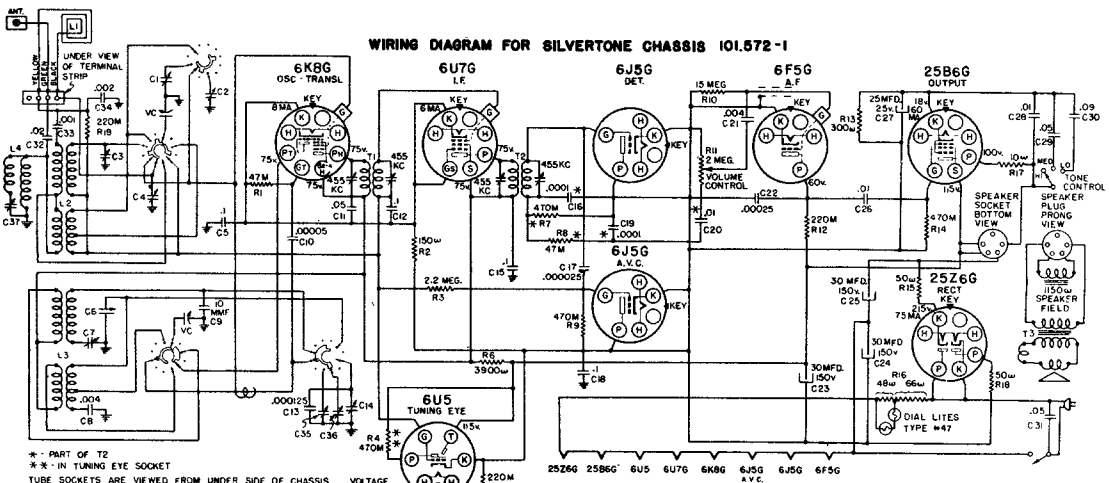
Sears Models 6438B, 6439A, 6440

* - PART OF T2
 ** - IN TUNING EYE SOCKET
 TUBE SOCKETS ARE VIEWED FROM UNDER SIDE OF CHASSIS. VOLTAGE READINGS SHOWN AT SOCKET PRONGS ARE TO -B-, AND ARE TAKEN WITH NO SIGNAL, WAVE SWITCH IN BROADCAST POSITION. LINE VOLTAGE AT 47 VOLTS, WHERE NO READING IS GIVEN, THE VOLTAGE IS ZERO OR TOO LOW TO READ.



LOCATIONS OF PARTS ON TOP OF CHASSIS - 101.503-1

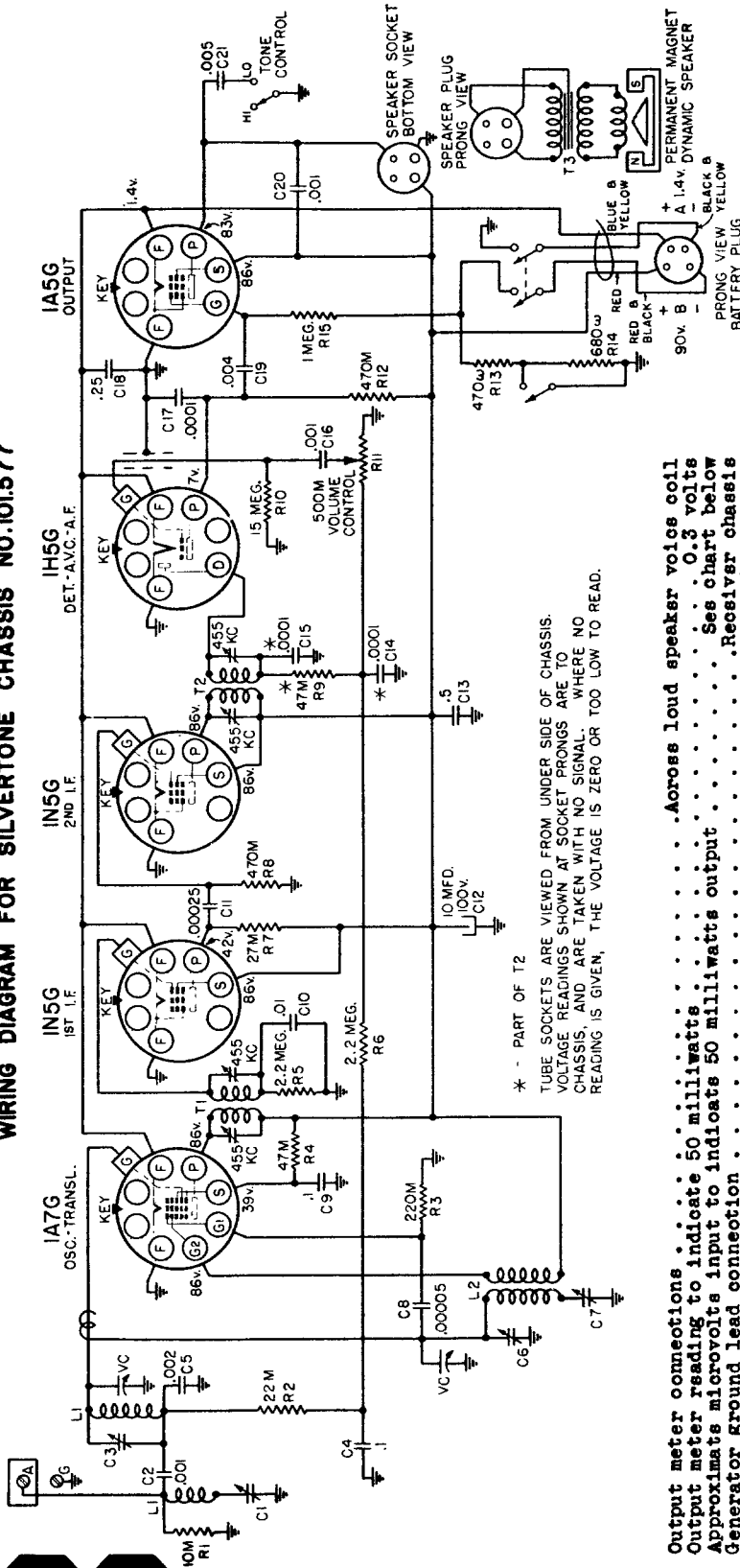
WIRING DIAGRAM FOR SILVERTONE CHASSIS 101.572-1



* - PART OF T2
 ** - IN TUNING EYE SOCKET
 TUBE SOCKETS ARE VIEWED FROM UNDER SIDE OF CHASSIS. VOLTAGE READINGS SHOWN AT SOCKET PRONGS ARE TO -B-, AND ARE TAKEN WITH NO SIGNAL, WAVE SWITCH IN BROADCAST POSITION. LINE VOLTAGE AT 47 VOLTS, WHERE NO READING IS GIVEN, THE VOLTAGE IS ZERO OR TOO LOW TO READ.

Sears Models 6325, 6425

WIRING DIAGRAM FOR SILVERTONE CHASSIS NO. 101.577



* - PART OF T2
 TUBE SOCKETS ARE VIEWED FROM UNDER SIDE OF CHASSIS.
 VOLTAGE READINGS SHOWN AT SOCKET PRONGS ARE TO CHASSIS, AND ARE TAKEN WITH NO SIGNAL. WHERE NO READING IS GIVEN, THE VOLTAGE IS ZERO OR TOO LOW TO READ.

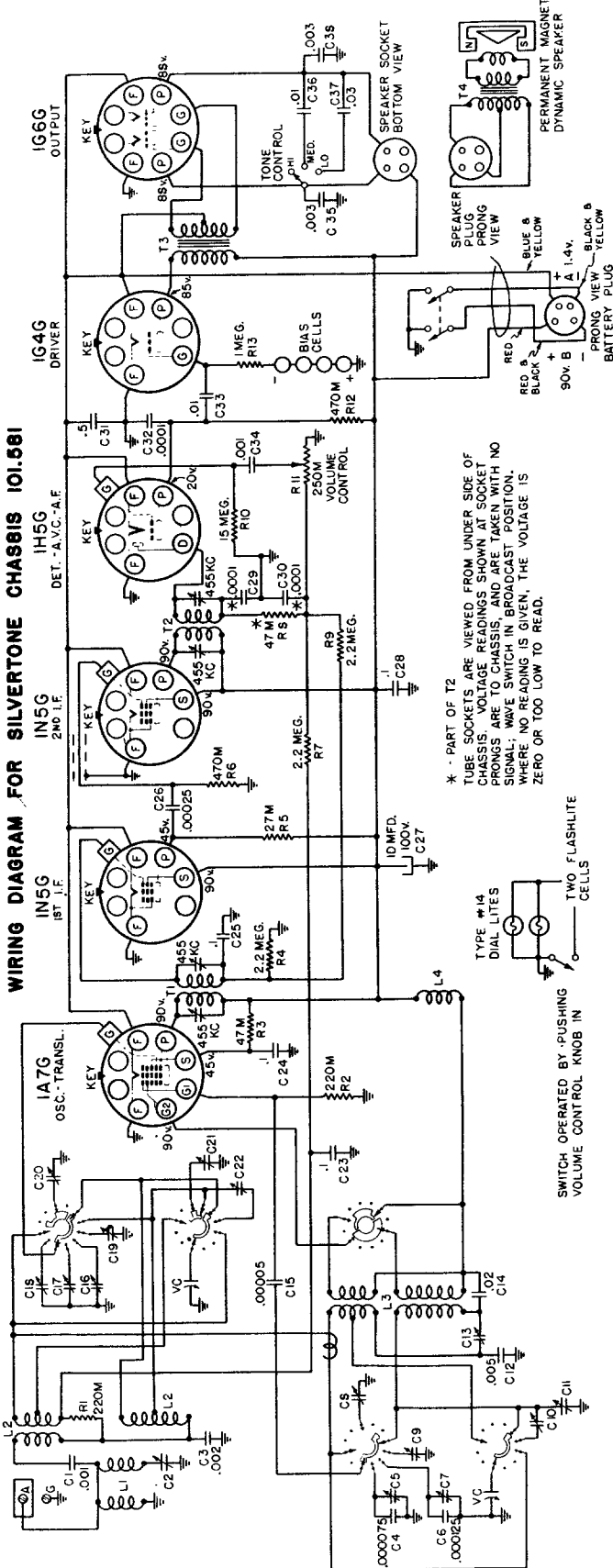
Output meter connections Across loud speaker voice coil
 Output meter reading to indicate 50 milliwatts 0.3 volts
 Approximate microvolts input to indicate 50 milliwatts output See chart below
 Generator ground lead connection Receiver chassis
 Dummy antenna value to be in series with generator output See chart below
 Connection of generator output lead HI
 Generator modulation 30%, 400 cycles
 Position of Volume Control Fully on
 Position of Tone Control Horizontal (To fall on block
 below 550 kc calibration mark.)

POSITION OF VARIABLE	GENERATOR FREQUENCY	DUMMY ANTENNA	GENERATOR CONNECTION	TRIMMER ADJUSTMENTS (IN ORDER SHOWN)	TRIMMER FUNCTION	APPROXIMATE MICROVOLTS
Closed	455 kc	.1 mfd.	1A7G Trans-lator Grid	T2, T1	IF	65
600 kc	455 kc	.0003 mfd.	Ant. Term.	C1*	IF Wave Trap	--
Fully open	1750 kc	.0003 mfd.	Ant. Term.	C6	Oscillator	45
1400 kc	1400 kc	.0003 mfd.	Ant. Term.	C3	Translator	20
600 kc (rock)	600 kc	.0003 mfd.	Ant. Term.	O7	Padder	25

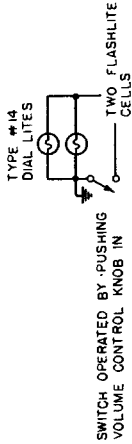
Sears Models 6353
 6354
 6355

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

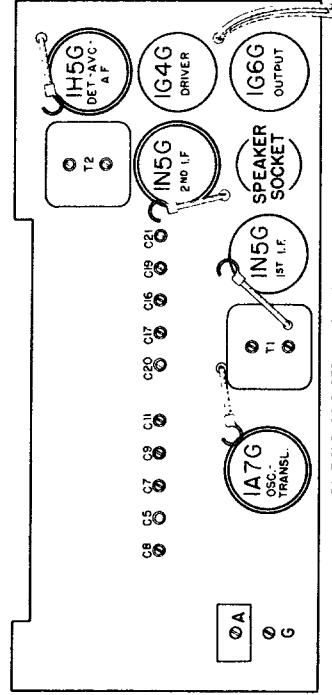
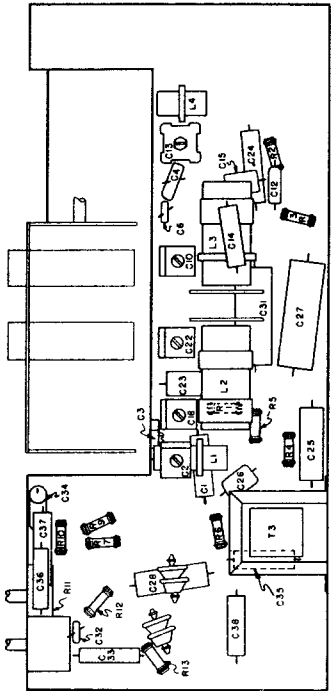
WIRING DIAGRAM FOR SILVERTONE CHASSIS 101.591



* - PART OF T2
 TUBE SOCKETS ARE VIEWED FROM UNDER SIDE OF CHASSIS. VOLTAGE READINGS SHOWN AT SOCKET PRONGS ARE TO CHASSIS, AND ARE TAKEN WITH NO SIGNAL; WAVE SWITCH IN BROADCAST POSITION. WHERE NO READING IS GIVEN, THE VOLTAGE IS ZERO OR TOO LOW TO READ.



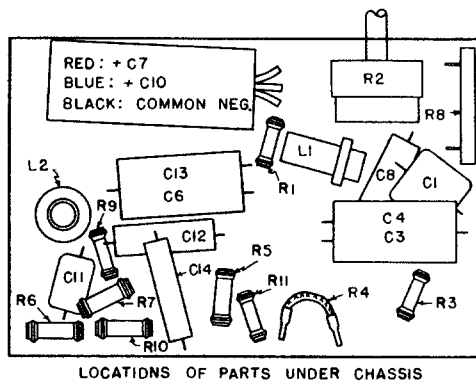
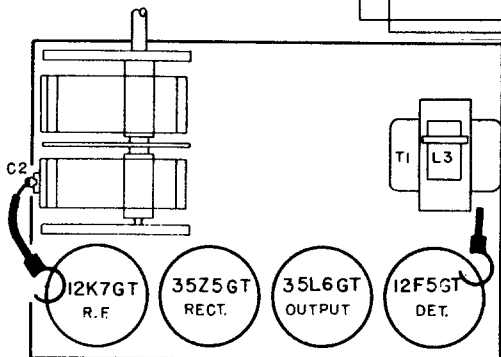
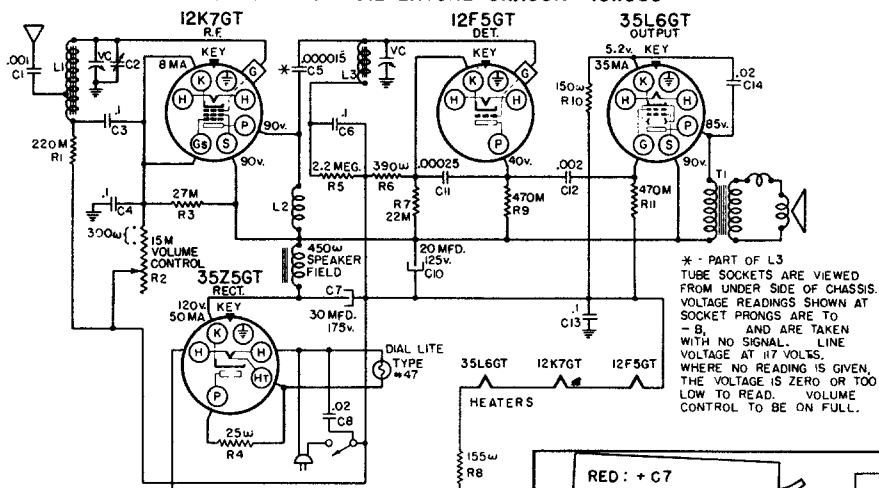
Sears, Model 6362, 6363, 6364



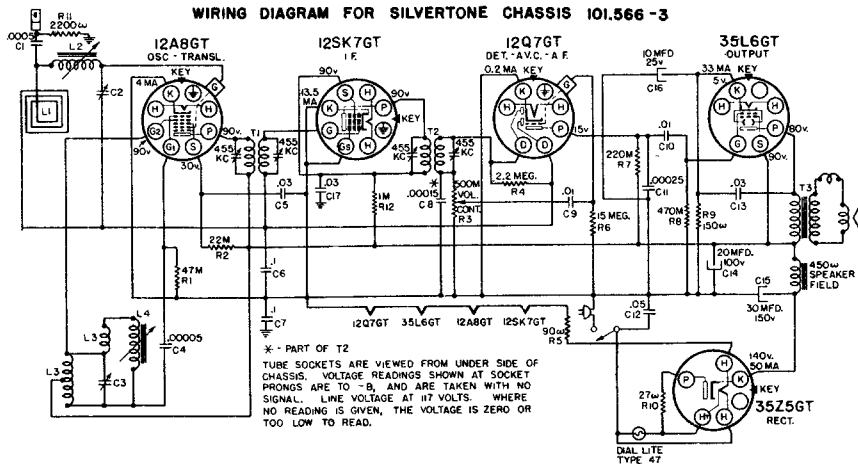
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

WIRING DIAGRAM FOR SILVERTONE CHASSIS 101.565

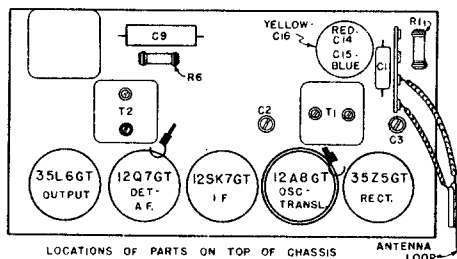
Sears,
Models
6400
6401
6402

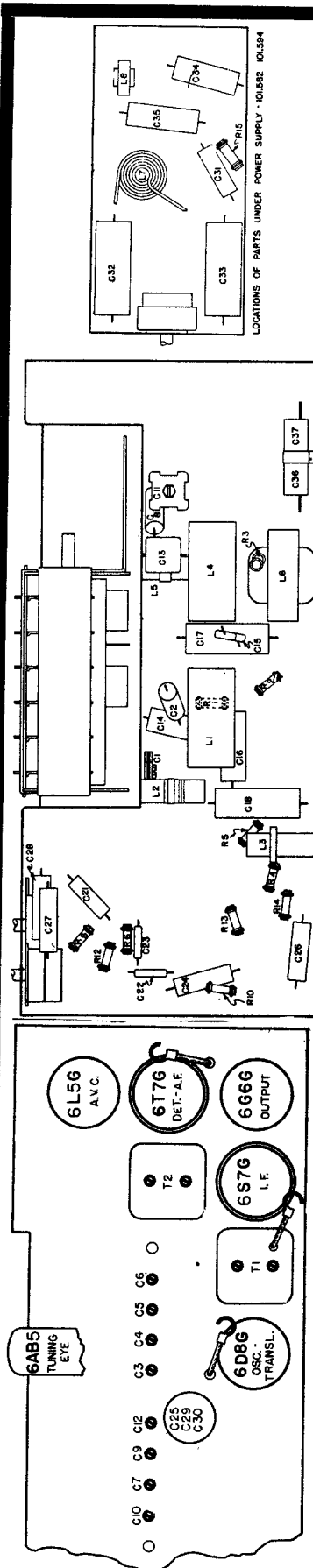


WIRING DIAGRAM FOR SILVERTONE CHASSIS 101.566-3

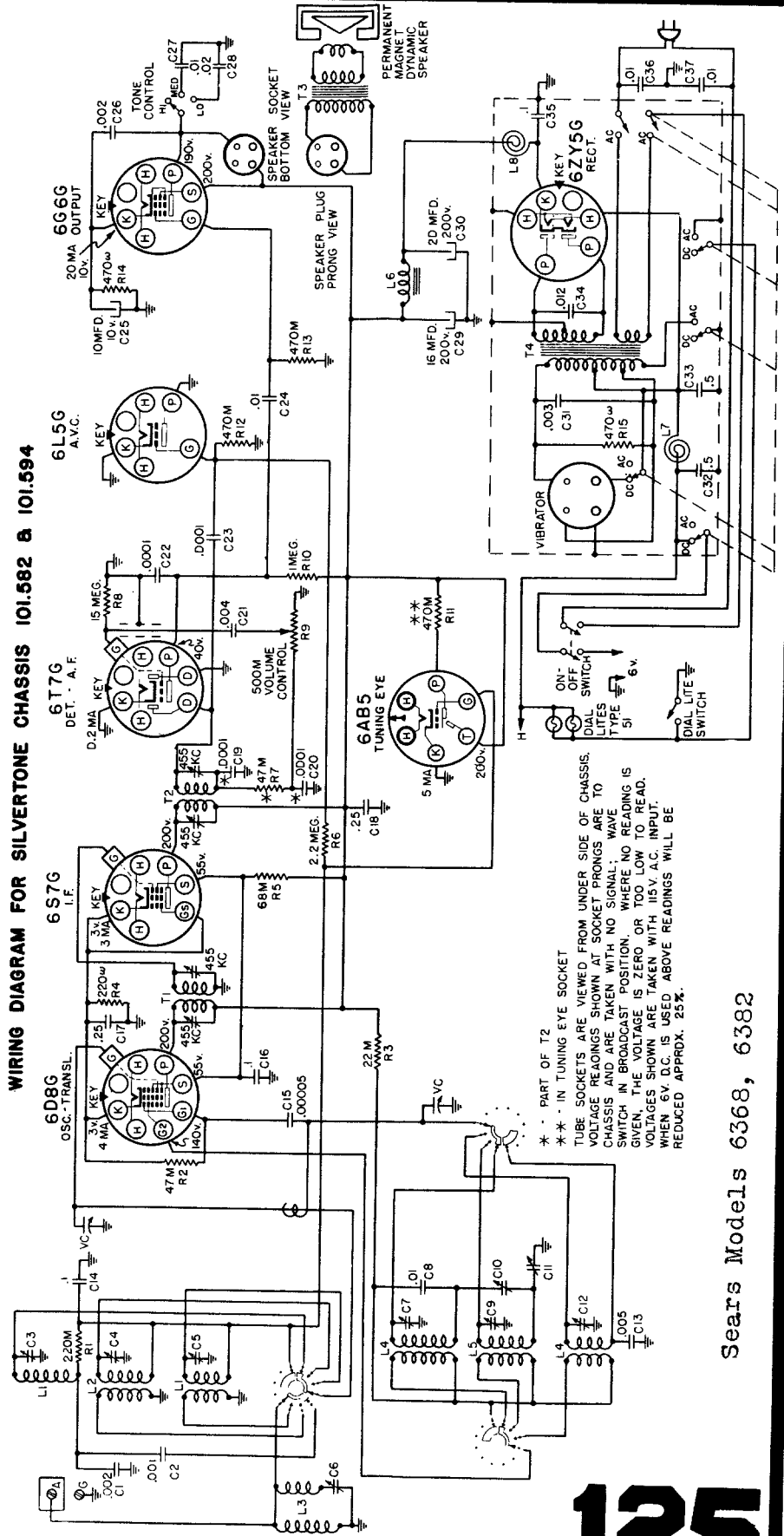


Sears Models 6403A, 6404A,
6405A, 6406A.



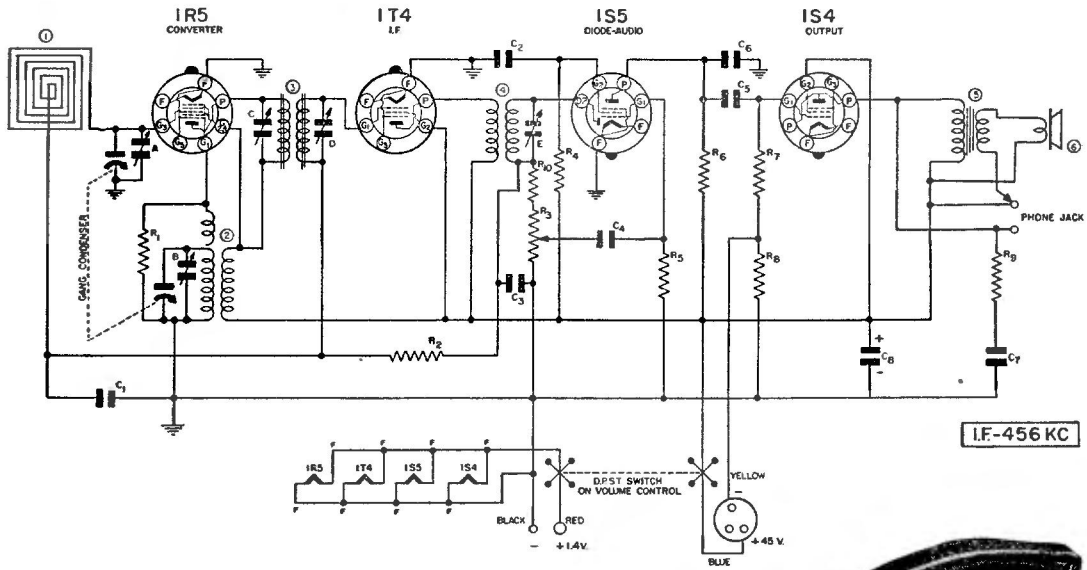


WIRING DIAGRAM FOR SILVERTONE CHASSIS 101.582 & 101.594



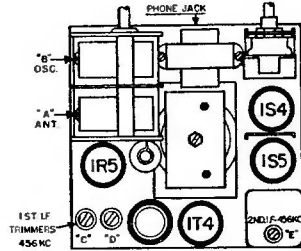
* * * PART OF T2
 ** * IN TUNING EYE SOCKET
 TUBE SOCKETS ARE VIEWED FROM UNDER SIDE OF CHASSIS.
 VOLTAGE READINGS SHOWN AT SOCKET PRONGS ARE TO
 CHASSIS AND ARE TAKEN WITH NO SIGNAL; WAVE
 SWITCH IN BROADCAST POSITION. WHERE NO READING IS
 GIVEN, THE VOLTAGE IS ZERO OR TOO LOW TO READ.
 VOLTAGES SHOWN ARE TAKEN WITH 115V. A.C. INPUT.
 WHEN 6V. D.C. IS USED ABOVE READINGS WILL BE
 REDUCED APPROX. 25%.

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

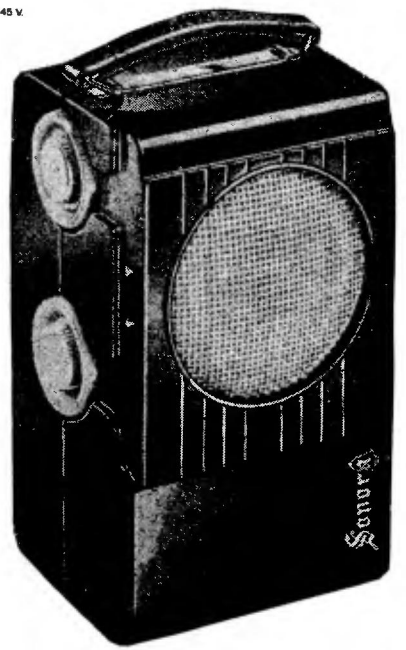


IF-456 KC

DIAG. NO.	PART NO.	DESCRIPTION	DIAG. NO.	PART NO.	DESCRIPTION
R1	N-3172	100,000 OHM 3W 20%	C5	N-3094	.01 MFD. 400 V.
R2	N-3173	2 MEGOHM 5W 20%	C6	N-074	.0001 MFD. MICA
R3	N-3092	1 MEGOHM VOLUME CONTROL	C7	N-3094	.01 MFD. 400 V.
R4	N-3174	3 MEGOHM 3W 20%	C8	N-361	6 MFD. 50V ELECTROLYTIC
R5	N-3093	6 MEGOHM 3W 20%	1	N-3096	ANTENNA LOOP COIL
R6	N-3175	1 MEGOHM 3W 20%	2	N-3097	OSCILLATOR COIL
R7	N-3173	2 MEGOHM 3W 20%	3	N-3098	1ST. LF TRANSFORMER
R8	N-3176	300 OHM 5W 5%	4	N-3099	2ND. LF TRANSFORMER
R9	N-3177	15,000 OHM 3W 20%	5	N-3100	OUTPUT TRANSFORMER
R10	N-3184	50,000 OHM 3W 20%	6	N-3101	4" P M SPEAKER
C1	N-1345	.05 MFD. 200 V.	N-3102		2 GANG CONDENSER
C2	N-3094	.01 MFD. 400 V.			
C3		.0001 MFD. (IN SHIELD)			
C4	N-3094	.01 MFD. 400 V.			

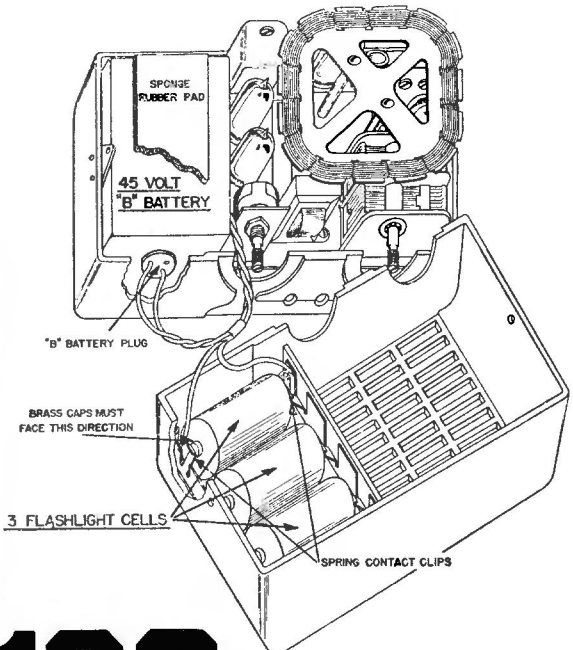


TUBE AND TRIMMER LOCATIONS



4 TUBE PORTABLE SUPERHETERODYNE SINGLE BAND

DRAWN BY: APPROVED BY: E.M.F.

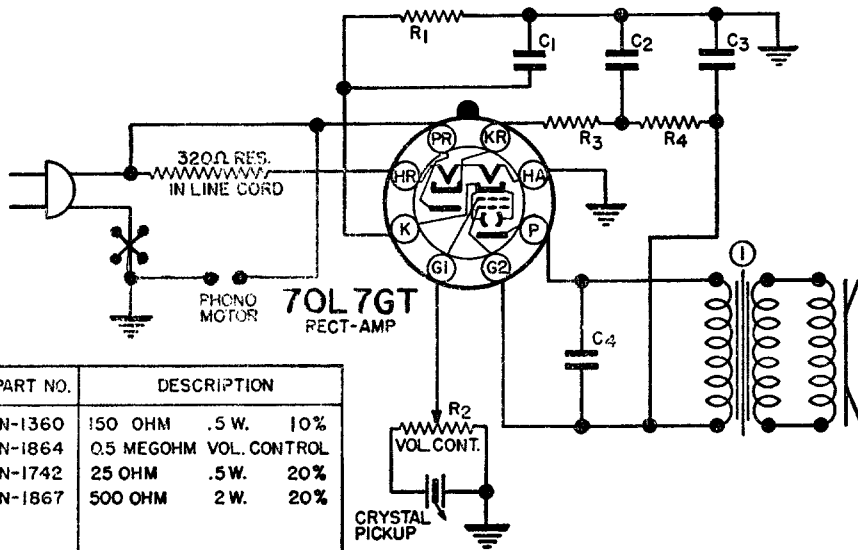


INSTALLATION OF NEW BATTERIES. To install new batteries remove the two large screws located on the ends of the case by inserting a small coin in the slot of the screws and turning. Open the case as shown in the accompanying illustration. The batteries can be readily removed and new ones used to replace them. The "A" cells must be inserted with the ends having the brass caps pointing in the direction shown in the diagram. Be sure the contact springs are clean before installing new "A" cells. If the contacts are dirty or corroded, scrape them off with a knife before installing new cells.

CAUTION. Never leave dead batteries in the receiver or store the receiver with the batteries in it for long periods as the batteries are apt to swell and damage the radio.

To insure maximum battery life from your receiver do not allow the batteries to become heated or damp and use the batteries while they are new. Batteries deteriorate with heat, moisture and age.

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

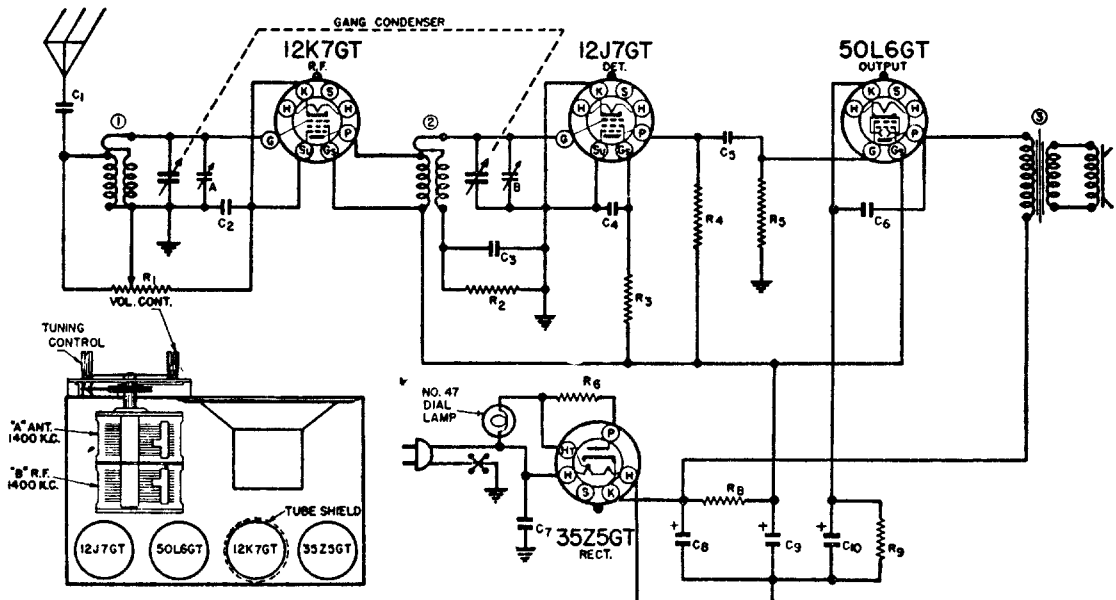


DIAG. NO.	PART NO.	DESCRIPTION
R 1	N-1360	150 OHM .5 W. 10%
R 2	N-1864	0.5 MEGOHM VOL. CONTROL
R 3	N-1742	25 OHM .5 W. 20%
R 4	N-1867	500 OHM 2 W. 20%
C 1	N-1866	2DMFD. 25V. } ELECTRO.
C 2		30 MFD. 150V. }
C 3		30 MFD. 150V. }
C 4	N-1344	.01 MFD. 400V.
1	N-1863	5 1/2" P.M. SPEAKER(TE-38)
	N-1865	LINE RES. CORD
	N-1910	5 1/2" P.M. SPKR.(TE-4DB&4I)

Sonora

ELECTRIC PHONOGRAPH

DRN. J.B. APP. 5-9-39



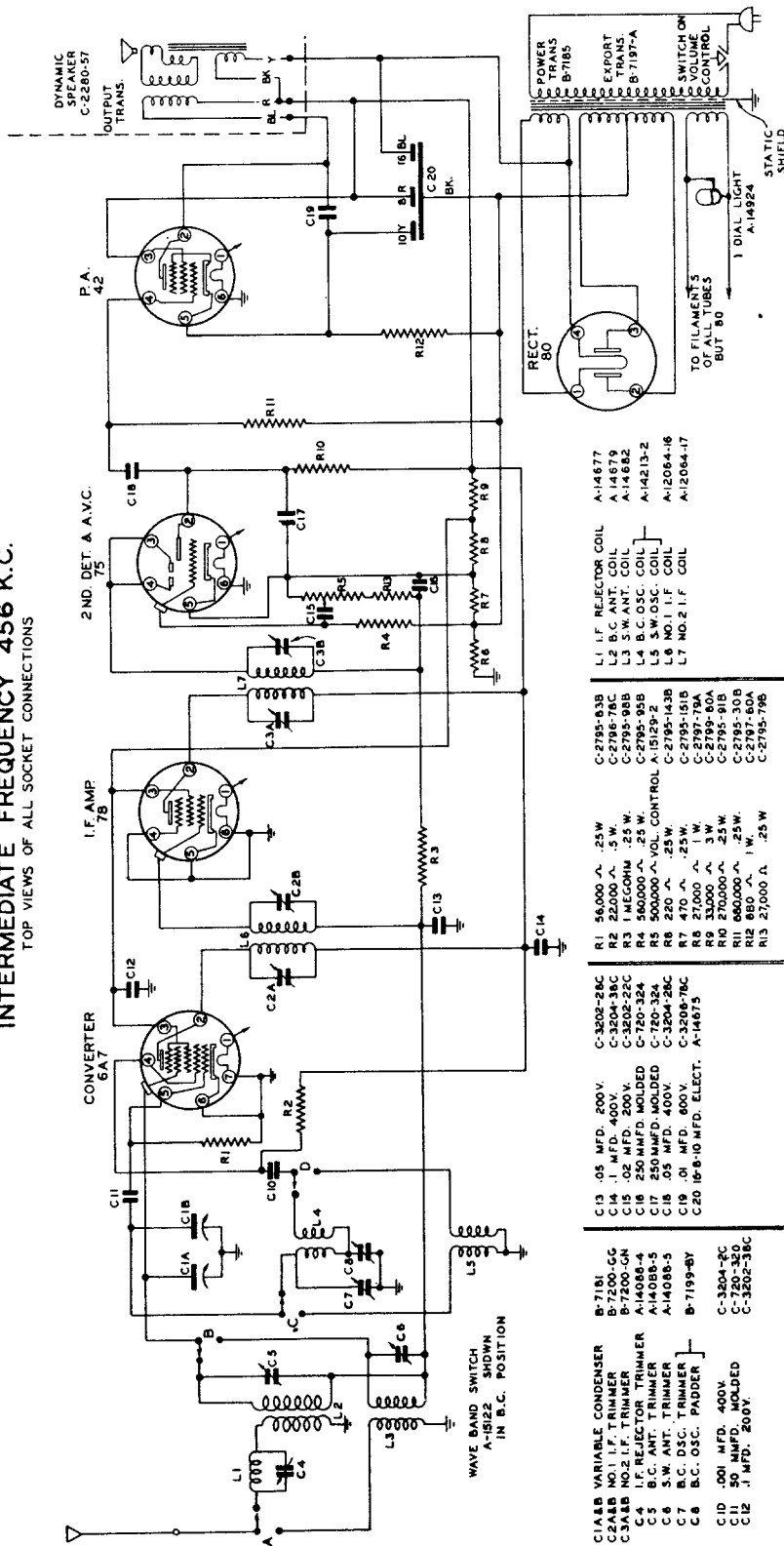
DIAG. NO.	PART NO.	DESCRIPTION	DIAG. NO.	PART NO.	DESCRIPTION
C1	N-1344	.01 MFD. 400 V.	R1	N-203	25,000 OHM VOL.
C2	N-1345	.05 MFD. 200 V.	R2	N-1418	3.5 MEG. 20X.5 W.
C3	N-1345	.05 MFD. 200 V.	R3	N-1835	6 MEG. 20X.5 W.
C4	N-1344	.01 MFD. 400 V.	R4	N-1262	1 MEG. 20X.5 W.
C5	N-1344	.01 MFD. 400 V.	R5	N-1264	.5 MEG. 20X.5 W.
C6	N-1344	.01 MFD. 400 V.	R6	N-1614	50 OHM 20X.5 W.
C7	N-1346	.05 MFD. 400 V.	R7	N-1618	80 OHM 10X.2 W.
C8	N-1850	25 MFD. 150V. } ELECT.	R8	N-1417	3000 OHM 20X.5 W.
C9		10 MFD. 150V. }	R9	N-1767	250 OHM 10X.5 W.
C10	N-1855	20 MFD. 25 V. } GANG CONDENSER	1	N-1790	ANTENNA COIL
			2	N-1791	R.F. COIL
			3	N-2047	SPEAKER & TRANS

Sonora

4 TUBE T.R.F.

DRN. J.B. APP. 5-9-39

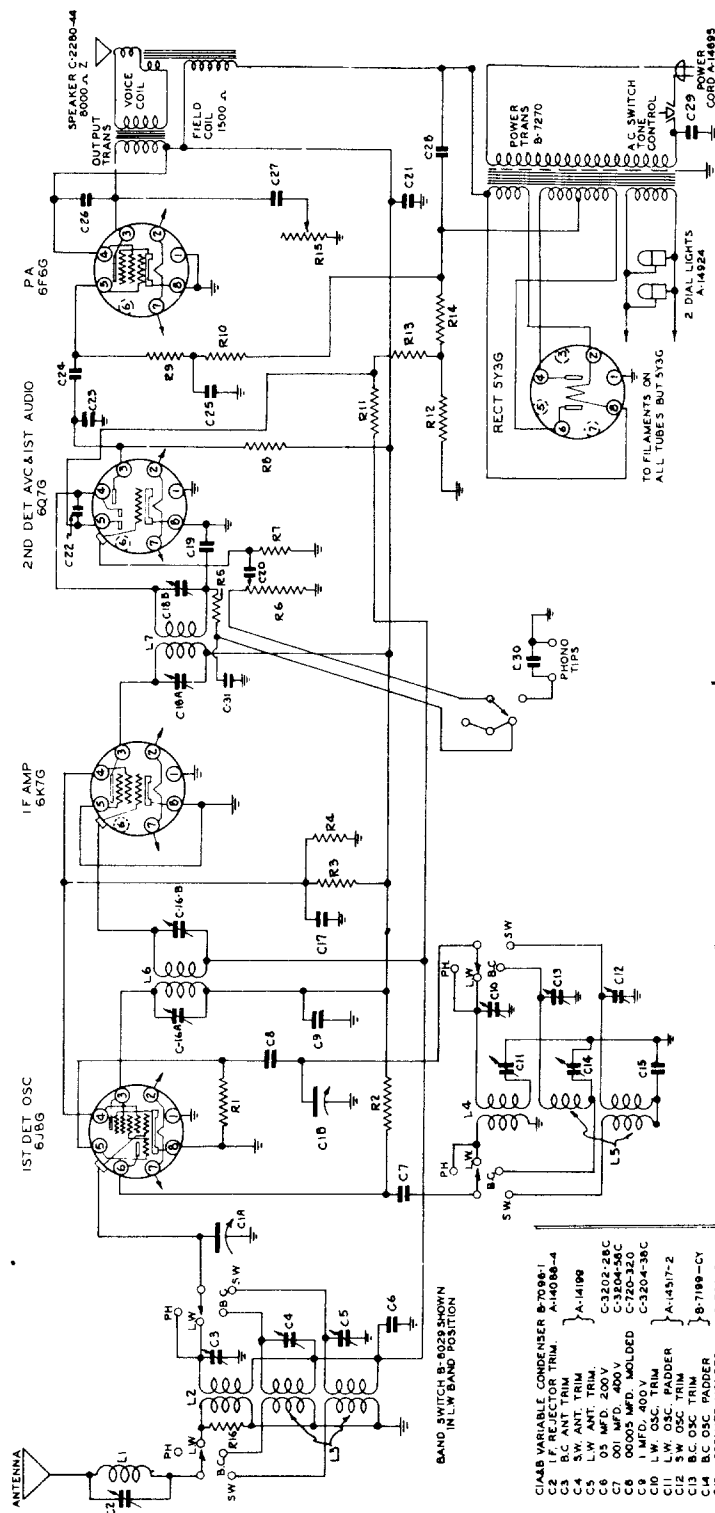
SCHEMATIC DIAGRAM SPARTON SUPERHETERODYNE MODEL 530-X INTERMEDIATE FREQUENCY 456 K.C. TOP VIEWS OF ALL SOCKET CONNECTIONS



- C13 .05 MFD. 200V. C-3202-28C
- C14 .01 MFD. 200V. C-3202-29C
- C15 .02 MFD. 200V. C-3202-30C
- C16 250 MFD. MOLDED C-720-324
- C17 250 MFD. MOLDED C-720-324
- C18 .05 MFD. 400V. C-3204-28C
- C19 .01 MFD. 600V. C-3206-78C
- C20 15-8-10 MFD. ELECT. A-14875
- C21 .001 MFD. 400V. C-3204-3C
- C22 .50 MFD. MOLDED C-720-320
- C23 .1 MFD. 200V. C-3202-33C
- R1 55,000 Ω. .25W. C-2795-93B
- R2 100,000 Ω. .25W. C-2797-79A
- R3 1 MEGOHM. .25W. C-2795-93B
- R4 500,000 Ω. .25W. C-2795-93B
- R5 500,000 Ω. VOL. CONTROL A-15129-2
- R6 220 Ω. .25W. C-2795-151B
- R7 470 Ω. .25W. C-2797-79A
- R8 27,000 Ω. 1W. C-2795-93A
- R9 33,000 Ω. .25W. C-2795-93A
- R10 600,000 Ω. .25W. C-2795-30B
- R11 880 Ω. 1W. C-2797-80A
- R12 27,000 Ω. .25W. C-2795-79B
- R13 27,000 Ω. .25W. C-2795-79B
- L1 I.F. REJECTOR COIL A-14677
- L2 B.C. ANT. COIL A-14670
- L3 S.W. ANT. COIL A-14682
- L4 B.C. OSC. COIL A-14213-2
- L5 S.W. OSC. COIL A-2064-16
- L6 NO. 1 I.F. COIL A-2064-17
- L7 NO. 2 I.F. COIL A-14677

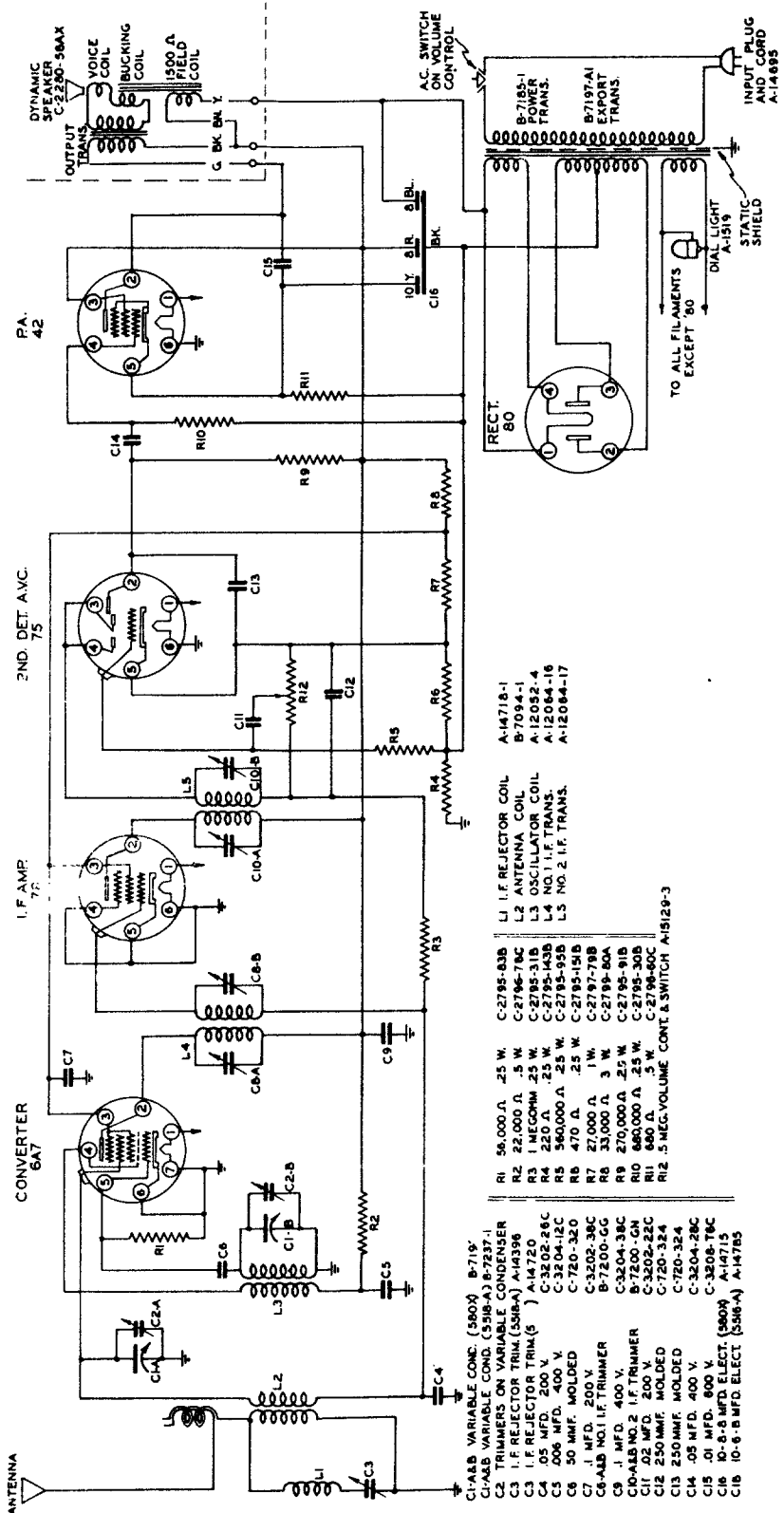
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

SCHEMATIC DIAGRAM SPARTON SUPERHETERODYNE MODEL 540 L X INTERMEDIATE FREQUENCY 456 K.C. TOP VIEWS OF ALL SOCKET CONNECTIONS



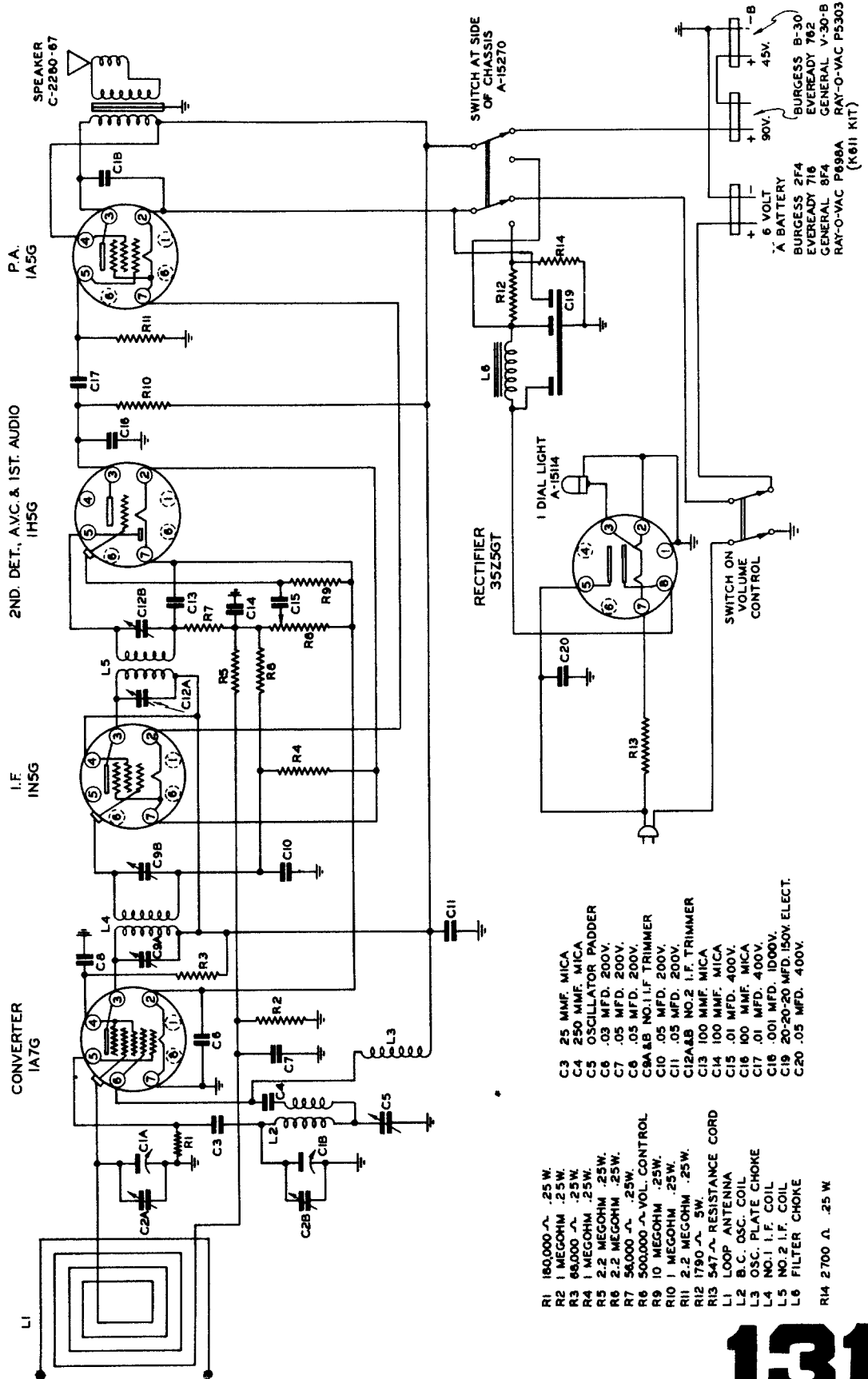
- | | |
|---------------------------|-------------|
| CIAB VARIABLE CONDENSER | B-7094-1 |
| C2 I.F. REJECTOR TRIM | A-14036-1 |
| C3 B.C. ANT. TRIM | |
| C4 S.W. ANT. TRIM | A-14199 |
| C5 0.01 MFD. 200V. | C-3202-38C |
| C6 0.01 MFD. 400V. | C-3204-58C |
| C7 0.0005 MFD. MOLDED | C-720-32.0 |
| C8 1 MFD. 400V. | C-3204-36C |
| C9 0.01 MFD. 200V. ELECT | A-14317-2 |
| C10 0.01 MFD. 200V. ELECT | B-7199-CY |
| C11 S.W. OSC. PADDER | C-720-362 |
| C12 S.W. OSC. TRIM | C-720-362 |
| C13 B.C. OSC. PADDER | B-7200-39C |
| C14 B.C. OSC. TRIM | C-3204-38C |
| CIAB NO. 1 I.F. TRIM | C-720-319 |
| CIAB NO. 2 I.F. TRIM | C-720-319 |
| C17 1 MFD. 400V. | C-720-319 |
| C18 0.0025 MFD. MOLDED | C-9202-28C |
| C19 0.0025 MFD. MOLDED | C-9202-28C |
| C20 0.01 MFD. 200V. ELECT | C-720-318 |
| C21 0.01 MFD. 200V. ELECT | C-720-318 |
| C22 0.0025 MFD. MOLDED | C-3204-64C |
| C23 0.0025 MFD. MOLDED | C-3204-64C |
| C24 0.05 MFD. 400V. | C-3202-38C |
| C25 0.05 MFD. 400V. | C-3202-38C |
| C26 0.05 MFD. 400V. | C-3202-38C |
| C27 0.03 MFD. 800V. | C-3206-80C |
| C28 18 MFD. 450V. ELECT | A-14073-A |
| C29 0.08 MFD. 800V. | C-3208-12C |
| C30 0.01 MFD. 200V. | C-3208-12C |
| C31 0.001 MFD. MIC. | C-720-343B |
| R1 95,000 Ω. 25W | C-2795-839 |
| R2 24,000 Ω. 2W | C-2795-839 |
| R3 24,000 Ω. 2W | C-2795-839 |
| R4 27,000 Ω. 1W | C-2795-839 |
| R5 27,000 Ω. 25W | C-2795-79B |
| R6 5 MEG. VOLUME CONT. | C-2795-79B |
| R7 270,000 Ω. 25W | A-15330 |
| R8 270,000 Ω. 25W | C-2795-978 |
| R9 270,000 Ω. 25W | C-2795-978 |
| R10 270,000 Ω. 25W | C-2795-978 |
| R11 1 MEGOHM. 25W | C-2795-98B |
| R12 1 MEGOHM. 25W | C-2795-98B |
| R13 220 Ω. 1W. | C-2797-143B |
| R14 220 Ω. 1W. | A-15331 |
| R15 1 MEG. TONE CONTROL | C-2795-76B |
| R16 15,000 Ω. 25W | C-2795-76B |
| L1 I.F. REJECTOR COIL | A-14877 |
| L2 I.F. REJECTOR COIL | A-14885-1 |
| L3 B.C. 1.5W. ANT. COIL | A-14886-1 |
| L4 U.W. OSC. COIL | A-14213-5 |
| L5 B.C. 1.5W. OSC. COIL | A-12064-29 |
| L6 NO. 1 I.F. COIL | A-12064-30 |
| L7 NO. 2 I.F. COIL | A-12064-30 |

**SCHEMATIC DIAGRAM
SPARTON SUPERHETERODYNE MODEL 580-X
INTERMEDIATE FREQUENCY 456 K.C.
TOP VIEW OF ALL SOCKET CONNECTIONS**



- C1-A8 VARIABLE COND. (360V) B-715'
- C1-A9 TRIMMER COND. (500V) B-7237-I
- C2 TRIMMER COND. (500V) B-7237-I
- C3 I.F. REJECTOR TRIM (500V) M-4596
- C4 I.F. REJECTOR TRIM (500V) M-4596
- C5 .05 MFD. 200 V. C-3205-38C
- C6 .05 MFD. 400 V. C-3204-12C
- C7 50 MMF. MOLDED C-720-32A
- C8 .1 MFD. 200 V. C-3203-38C
- C9 .1 MFD. 200 V. B-7210-6C
- C10 .1 MFD. 400 V. C-3204-38C
- C11 .02 MFD. 200 V. B-7200-6A
- C12 250 MMF. MOLDED C-3202-22C
- C13 250 MMF. MOLDED C-720-32A
- C14 .05 MFD. 400 V. C-3204-28C
- C15 .01 MFD. 800 V. C-3208-78C
- C16 10-8 MFD. ELECT. (300V) C-14715
- C18 10-6-B MFD. ELECT. (500V) A-14785
- R1 58,000 Ω .25 W. C-2795-83B
- R2 22,000 Ω .5 W. C-2796-79C
- R3 250 Ω .5 W. C-2795-31B
- R4 250 Ω .5 W. C-2795-43B
- R5 540,000 Ω .25 W. C-2795-43B
- R6 470 Ω .25 W. C-2795-15B
- R7 27,000 Ω .3 W. C-2797-79B
- R8 33,000 Ω .3 W. C-2799-80A
- R9 270,000 Ω .25 W. C-2795-91B
- R10 270,000 Ω .25 W. C-2795-91B
- R11 840 Ω .5 W. C-2795-90C
- R12 .5 MEG. VOLUME CONTR. SWITCH A-15129-3
- L1 I.F. REJECTOR COIL A-14718-1
- L2 ANTENNA COIL B-7094-1
- L3 OSCILLATOR COIL A-12082-4
- L4 NO. 1 I.F. TRANS. A-12084-16
- L5 NO. 2 I.F. TRANS. A-12084-17
- RECT. 80
- TRANSFORMERS: B-7185-1 POWER TRANS., B-7197-A1 EXPORT TRANS.
- Other components: DYNAMIC SPEAKER C-2230-58AX, VOICE COIL, BUCKING COIL, 1500 A FIELD COIL, AC SWITCH ON VOLUME CONTROL, INPUT PLUG AND CORD A-14695, DIAL LIGHT A-1511, STATIC SHIELD.

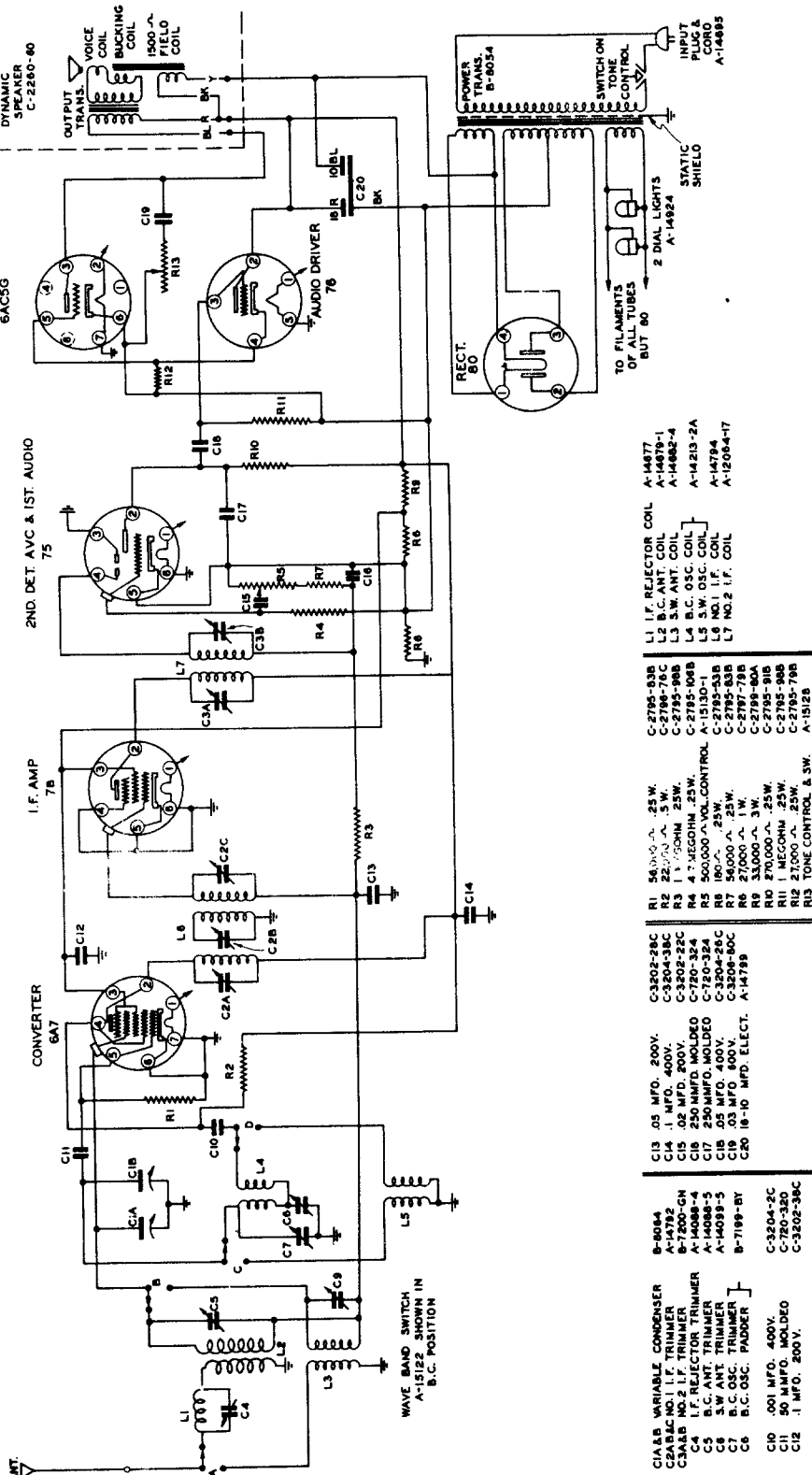
SCHEMATIC DIAGRAM SPARTON SUPERHETERODYNE MODEL 590-1 INTERMEDIATE FREQUENCY 456 K.C. TOP VIEWS OF ALL SOCKET CONNECTIONS



MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

SCHEMATIC DIAGRAM SPARTON SUPERHETERODYNE MODEL 660-M INTERMEDIATE FREQUENCY 456 K.C.

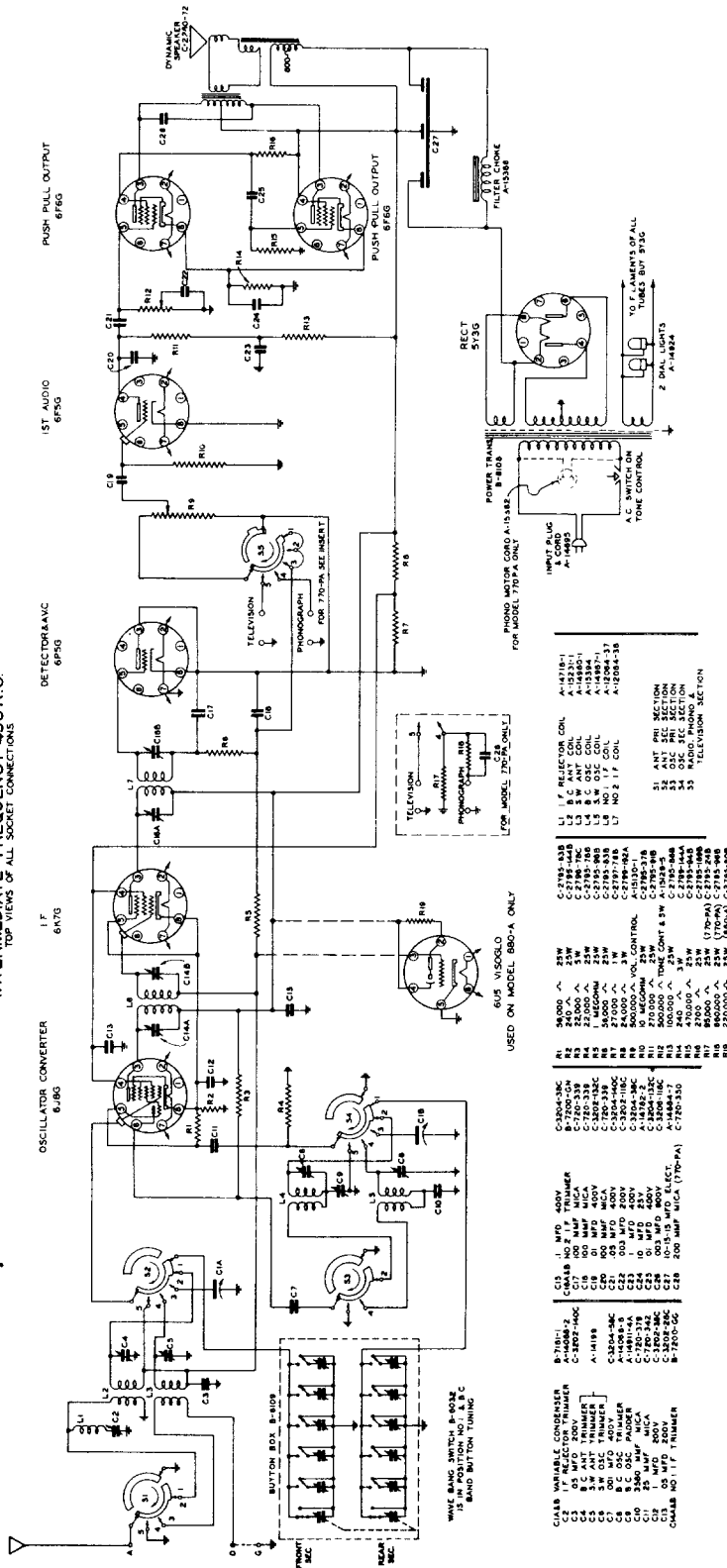
TOP VIEWS OF ALL SOCKET CONNECTIONS



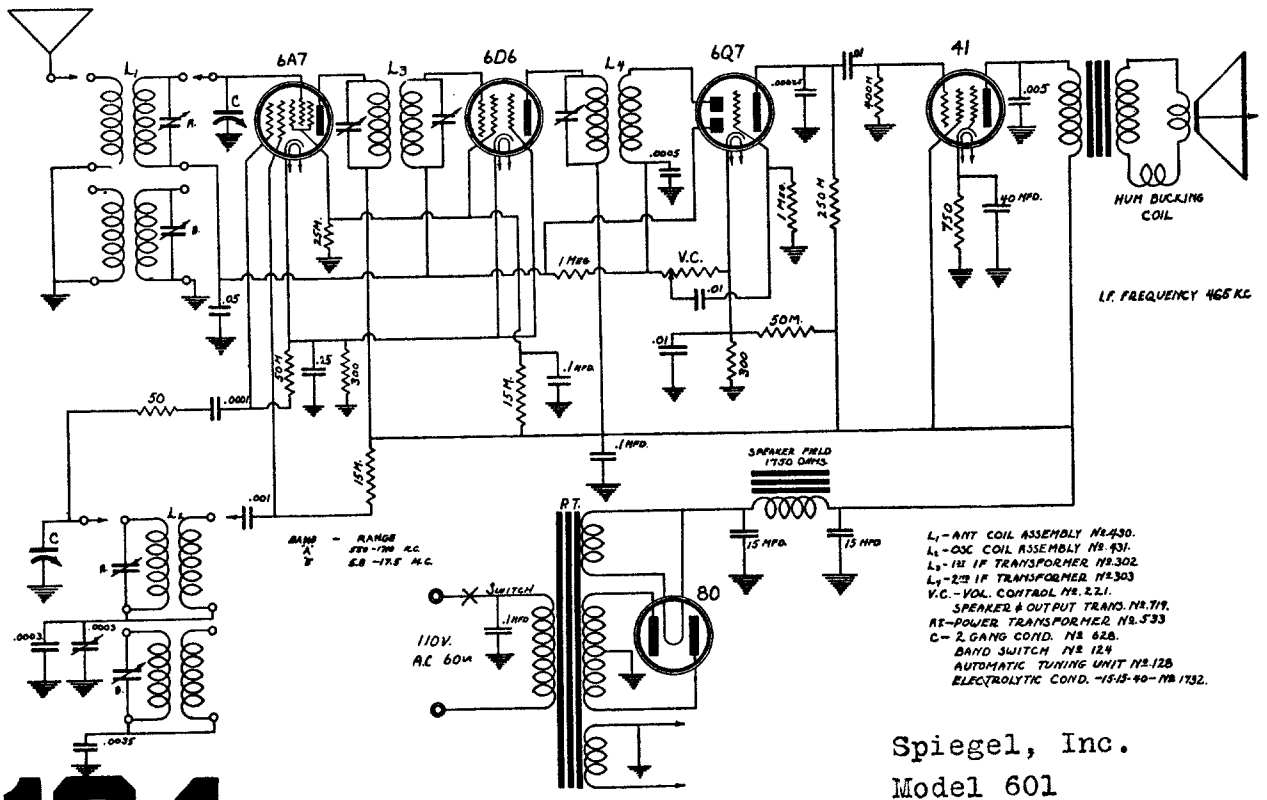
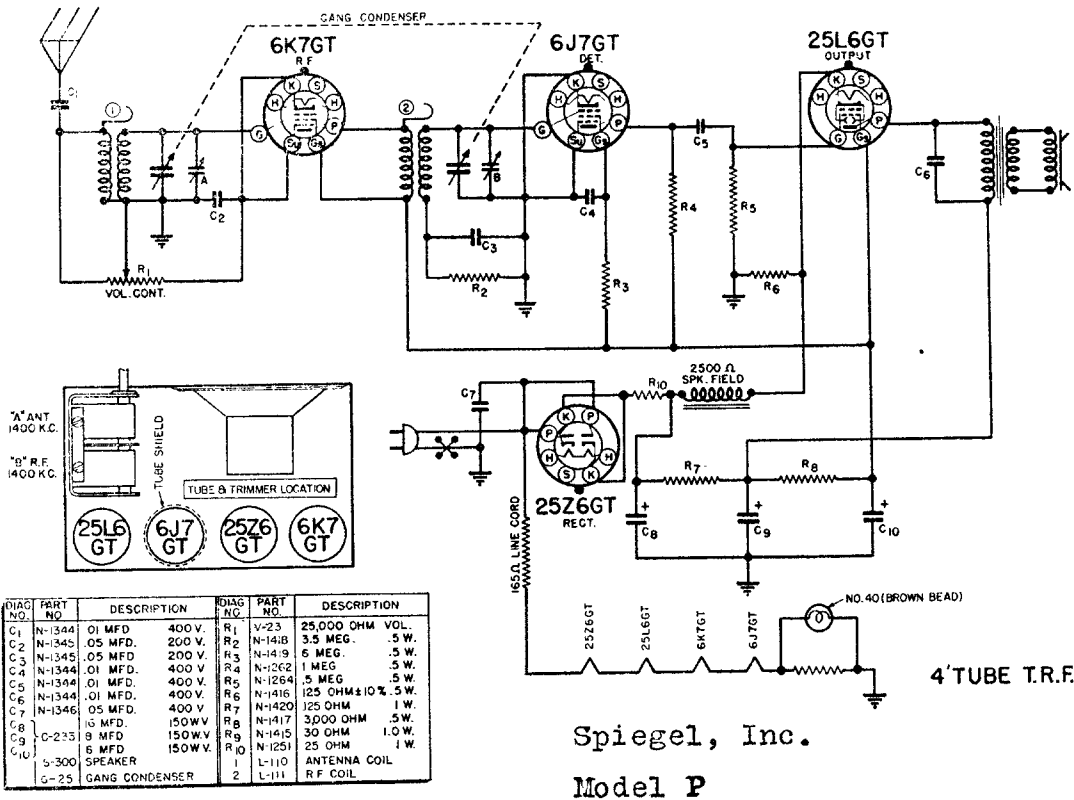
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|----------------------------|-----------|--------------|------------|
| C1A 8 VARIABLE CONDENSER | B-6064 | C2795-838 | A-14877 |
| C2A 8 C NO. 1 I.F. TRIMMER | A-14792 | C2795-900 | A-14879-1 |
| C3A 8 C NO. 2 I.F. TRIMMER | B-7800-CH | C2795-968 | A-14882-4 |
| C4 1 F. REFLECTOR TRIMMER | A-14088-4 | C2795-1008 | A-14213-2A |
| C5 5 W. ANT. TRIMMER | A-14089-5 | C2795-1048 | A-14784 |
| C6 5 W. ANT. TRIMMER | A-14089-5 | C2795-1130-1 | A-12084-17 |
| C7 5 W. OSC. TRIMMER | B-7189-BT | C2795-1170 | |
| C8 5 W. OSC. PADDER | | C2795-1200 | |
| C9 .001 MFD. 400V. | | C2795-1230 | |
| C10 .50 MFD. 200V. | | C2795-1260 | |
| C11 .1 MFD. 200V. | | C2795-1290 | |
| C12 .1 MFD. 200V. | | C2795-1320 | |
| C13 .05 MFD. 200V. | | C2795-1350 | |
| C14 .1 MFD. 400V. | | C2795-1380 | |
| C15 .02 MFD. 200V. | | C2795-1410 | |
| C16 250 MFD. MOLDED | | C2795-1440 | |
| C17 250 MFD. MOLDED | | C2795-1470 | |
| C18 .05 MFD. 400V. | | C2795-1500 | |
| C19 .05 MFD. 400V. | | C2795-1530 | |
| C20 18-10 MFD. ELECT. | | C2795-1560 | |
| | | C2795-1590 | |
| | | C2795-1620 | |
| | | C2795-1650 | |
| | | C2795-1680 | |
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| | | C2795-1800 | |
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| | | C2795-5970 | |
| | | C2795-6000 | |
- R1 50,000 Ω . .25W.
R2 22,700 Ω . 5W.
R3 4.7 MEGOHM. 25W.
R4 1 MEGOHM. 25W.
R5 500,000 Ω . VOL. CONTROL
R6 180 Ω . .25W.
R7 50,000 Ω . .25W.
R8 27,000 Ω . 1W.
R9 33,000 Ω . 3W.
R10 270,000 Ω . .25W.
R11 1 MEGOHM. 25W.
R12 2.7 MEGOHM. 25W.
R13 TONE CONTROL & SW. A-15126
- C1 50,000 μ .
C2 22,700 μ .
C3 4.7 MEGOHM. 25W.
C4 1 MEGOHM. 25W.
C5 500,000 μ . VOL. CONTROL
C6 180 μ . .25W.
C7 50,000 μ . .25W.
C8 27,000 μ . 1W.
C9 33,000 μ . 3W.
C10 270,000 μ . .25W.
C11 1 MEGOHM. 25W.
C12 2.7 MEGOHM. 25W.
C13 TONE CONTROL & SW. A-15126
- L1 I.F. REFLECTOR COIL
L2 B.C. ANT. COIL
L3 3W. ANT. COIL
L4 B.C. OSC. COIL
L5 3W. OSC. COIL
L6 NO. 1 I.F. COIL
L7 NO. 2 I.F. COIL
- A-14877
A-14879-1
A-14882-4
A-14213-2A
A-14784
A-12084-17
- C-3202-28C
C-3204-28C
C-3205-28C
C-3206-28C
C-3207-28C
C-3208-28C
C-3209-28C
C-3210-28C
C-3211-28C
C-3212-28C
C-3213-28C
C-3214-28C
C-3215-28C
C-3216-28C
C-3217-28C
C-3218-28C
C-3219-28C
C-3220-28C
C-3221-28C
C-3222-28C
C-3223-28C
C-3224-28C
C-3225-28C
C-3226-28C
C-3227-28C
C-3228-28C
C-3229-28C
C-3230-28C
C-3231-28C
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C-3237-28C
C-3238-28C
C-3239-28C
C-3240-28C
C-3241-28C
C-3242-28C
C-3243-28C
C-3244-28C
C-3245-28C
C-3246-28C
C-3247-28C
C-3248-28C
C-3249-28C
C-3250-28C
- B-6064
A-14792
B-7800-CH
A-14088-4
A-14089-5
B-7189-BT
C-3204-28C
C-780-32D
C-3202-38C
- C1A 8 VARIABLE CONDENSER
C2A 8 C NO. 1 I.F. TRIMMER
C3A 8 C NO. 2 I.F. TRIMMER
C4 1 F. REFLECTOR TRIMMER
C5 5 W. ANT. TRIMMER
C6 5 W. OSC. TRIMMER
C7 5 W. OSC. TRIMMER
C8 5 W. OSC. PADDER
C9 .001 MFD. 400V.
C10 .50 MFD. 200V.
C11 .1 MFD. 200V.

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

**SCHEMATIC DIAGRAM
SPARTAN SUPERHETERODYNE MODEL 770-770-PA & B80-A
INTERMEDIATE FREQUENCY 456 K.C.
TOP VIEWS OF ALL SOCKET CONNECTIONS**

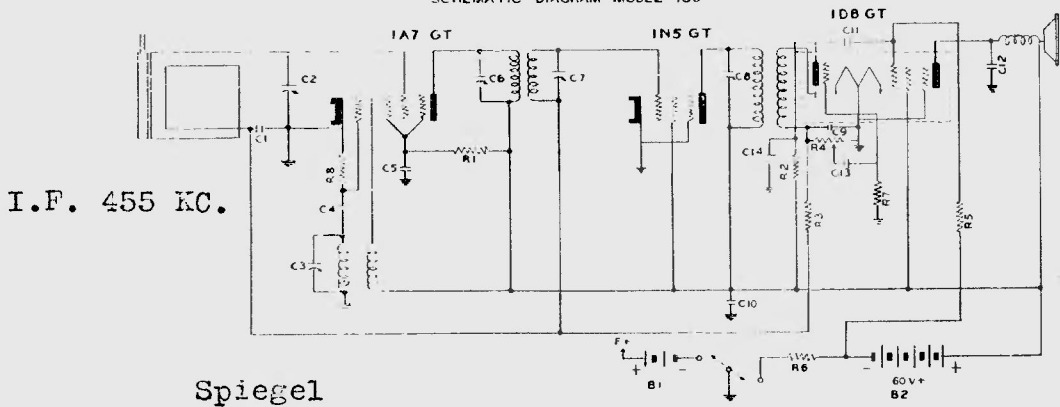


MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

SCHEMATIC DIAGRAM MODEL-130



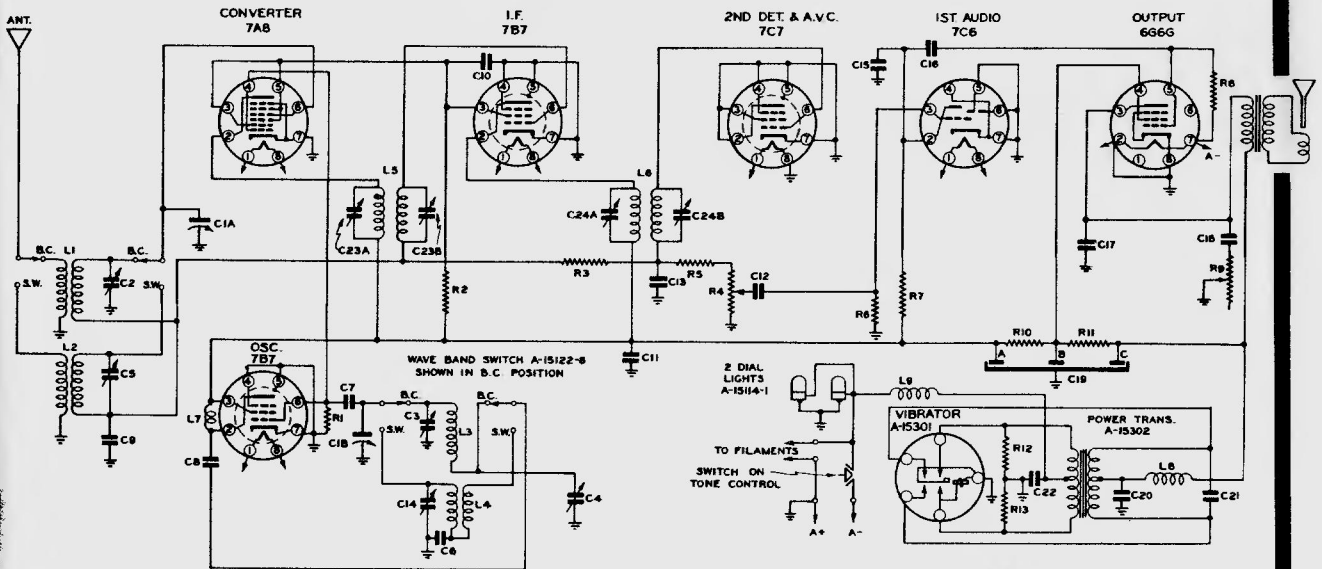
REPLACEMENT PARTS LIST

Schematic Location	Part No.	Description	Schematic Location	Part No.	Description
C1	C-45	Tubular cond. .05 mfd. 200V	R1	R-105	Carbon res. 5K ohm
C2, C3	Y-CV-46	Variable Condenser	R2, R7	R-102	Carbon res. 1 megr.
C4	CM-31	Mica cond. 100 mmfd.	R3, R5	R-101	Carbon res. 2 megr.
C5, C11	C-48	Tubular cond. .01 mfd. 400V	R8	R-113	Carbon res. 100K ohm
C6, C7	CT-1	Trimmer condenser	R6	R-103	Carbon res. 60 ohm
C8	CT-32	Trimmer condenser			
C9, C14	CM-30	Mica cond. 250 mmfd.	B1		
C10	CE-58	4 mfd. 100V Electrolytic	B2		
C12, C13	C-47	Tubular cond. .004 mfd. 400V			

Spiegel

SCHEMATIC DIAGRAM
AIR CASTLE SUPERHETERODYNE MODEL 631-6
INTERMEDIATE FREQUENCY 456 K.C.

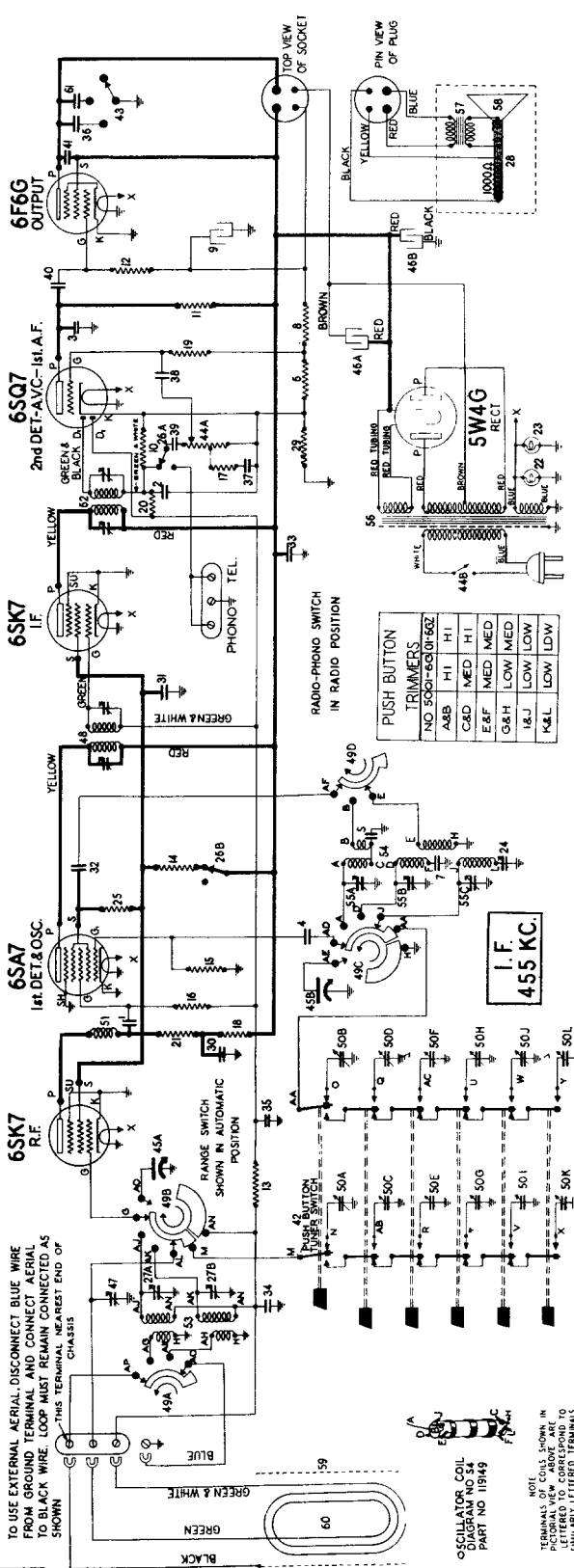
BOTTOM VIEWS OF ALL SOCKET CONNECTIONS



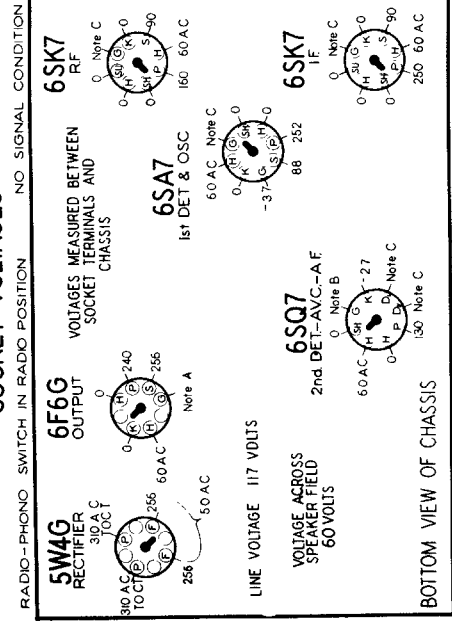
C1A&B VARIABLE CONDENSER	B-7229	C13 250 MMF. MICA	C-720-324	R1 56,000 Ω 25W	C-2795-83B	L1 B.C. ANT. COIL A-15349-1
C2 B.C. ANT. TRIMMER	A-14088-B	C14 3.5W OSC. TRIMMER	A-14088-B	R2 18,000 Ω 5W	C-2798-77C	L2 3.5W ANT. COIL A-14882-3
C3 B.C. OSC. TRIMMER	B-7199-EY	C15 250 MMF. MICA	C-720-324	R3 1 MEGOHM 25W	C-2795-98B	L3 B.C. OSC. COIL A-15352-1
C4 B.C. OSC. PADDER		C16 .05 MFD. 200V.	C-3202-28C	R4 500,000 Ω VOLUME CONT.	A-15130-3	L4 3.5W OSC. COIL A-15233-5
C5 3.5W ANT. TRIMMER	A-14088-5	C17 .001 MFD. 400V.	C-3204-58C	R5 47,000 Ω 25W	C-2795-23B	L5 NO. 1 I.F. COIL A-12064-39
C6 2700 MMF. MICA	A-15451	C18 .02 MFD. 400V.	C-3204-78C	R6 4.7 MEGOHM 25W	C-2795-35B	L6 NO. 2 I.F. COIL A-12064-17
C7 50 MMF. MICA	C-720-315	C19A,B,C 20-20-20 MFD. 150V. ELECT.	A-14884-S	R7 220,000 Ω 25W	C-2795-27B	L7 B+ PLATE CHOKE A-14881-1
C8 250 MMF. MICA	C-720-324	C20 1000 MMF. MICA	C-720-297	R8 1 MEGOHM 25W	C-2795-98B	L8 B+ HASH CHOKE A-14718-2
C9 .05 MFD. 200V.	C-3202-84C	C21 .01 MFD. 600V.	C-3208-132C	R9 TONE CONTROL & SWITCH	A-15128-2	L9 A LEAD HASH CHOKE A-14944
C10 .1 MFD. 200V.	C-3202-84C	C22 5 MFD 150V	C-3203-46B	R10 330 Ω .5W	C-2796-10C	
C11 .1 MFD. 200V.	C-3202-36C	C23 NO. 1 I.F. TRIMMER	B-7200-GH	R11 68 Ω .5W	C-2796-48C	
C12 .02 MFD. 200V.	C-3202-22C	C24 NO. 2 I.F. TRIMMER	B-7200-GH	R12 68 Ω .5W	C-2796-6C	
				R13 68 Ω .5W		

STEWART-WARNER 01-6G and 01-6G-Z

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SOCKET VOLTAGES

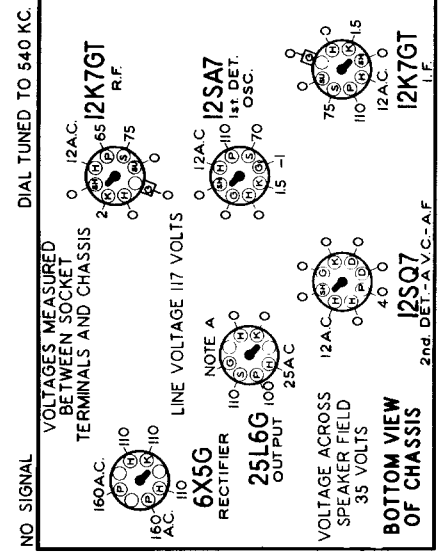
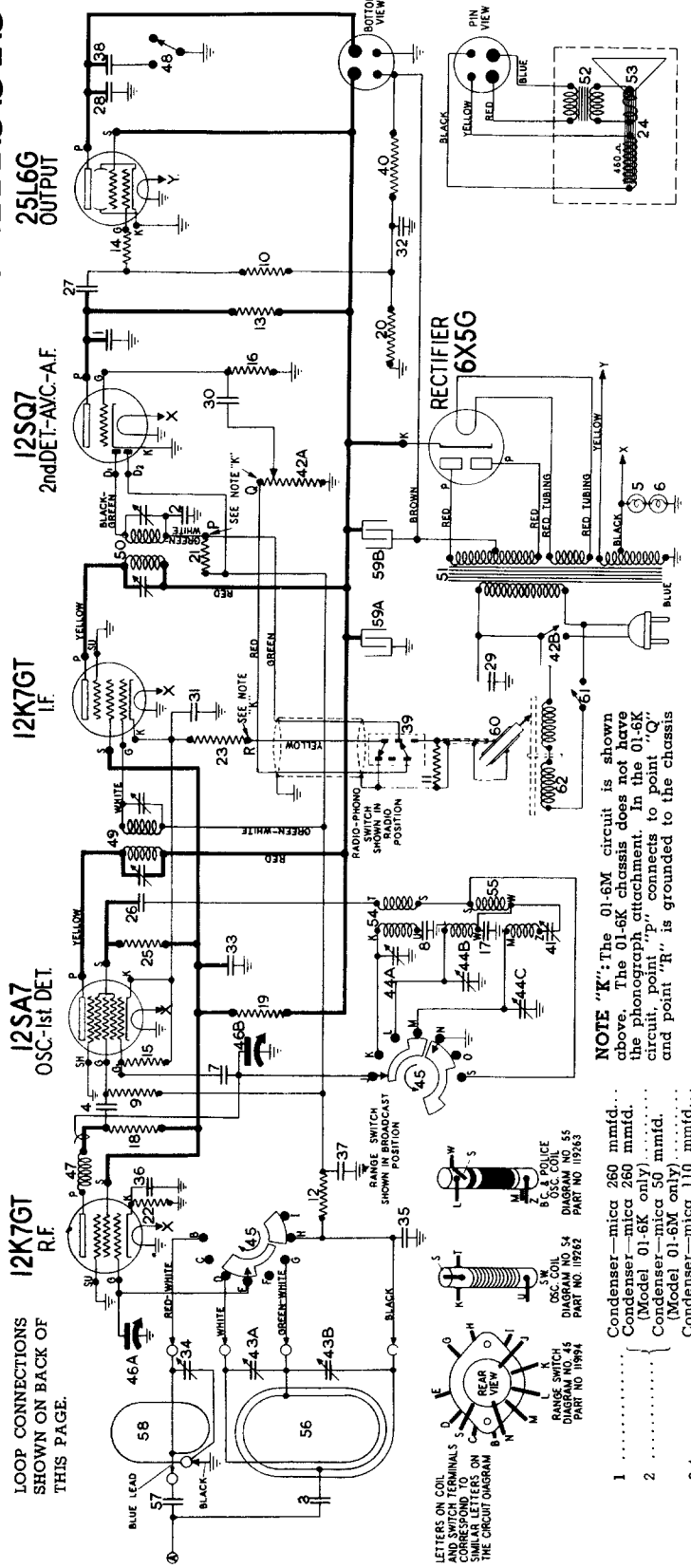


- 45A-45B Condenser-gang
- 46A-46B Condenser—electrolytic 10-15 mfd. 450 volts
- 47 Condenser—trimmer
- 48 Transformer—2nd I.F.
- 49A to 49C Transformer—1st I.F.
- 50A to 50L Range switch
- 51 Condenser—push button trimmer (Low) 340 to 1000 KC.
- 52 Condenser—push button trimmer (Med.) 730 to 1975 KC.
- 53 Condenser—push button trimmer (Hi) 980 to 1550 KC.
- 54 Coil—compensating
- 55 Transformer—2nd I.F.
- 56 Coil—antenna
- 57 Coil—oscillator
- 58 Transformer—trimmer 3 section.
- 59 U. Transformer—output for U-115086 speaker
- 60 U. Cone & Voice coil for U-115086 speaker
- 61 Shield for loop antenna
- 62 Cabinet back and loop antenna complete 01-6G1 & 01-6G1-Z
- 63 Cabinet back and loop antenna complete 01-6G4.1 & 01-6G4.1-Z
- 64 Cabinet back and loop antenna complete 01-6G4.2 & 01-6G4.2-Z
- 65 Cabinet back and loop antenna complete 01-6G4.3 & 01-6G4.3-Z
- 66 Cabinet back and loop antenna complete 01-6G4.4 & 01-6G4.4-Z
- 67 Cabinet back and loop antenna complete 01-6G4.5 & 01-6G4.5-Z
- 68 Cabinet back and loop antenna complete 01-6G4.6 & 01-6G4.6-Z
- 69 Condenser—.005 mfd. 600 volt
- 1-2-3 Condenser—mica 260 mmfd.
- 4 Condenser—mica 51 mmfd.
- 5 Condenser—mica .00351 mfd. 3% w.t.
- 6 Resistor—wire wound 25 ohms 1/2 watt.
- 7 Condenser—mica .002 mfd.
- 8 Resistor—wire wound 220 ohms 1 watt.
- 9 Resistor—electrolytic 10 mid.—35 watts
- 10-11-12 Resistor—carbon 220,000 ohms 1/4 watt.
- 13 Resistor—carbon 470,000 ohms 1/4 watt.
- 14 Resistor—carbon 15,000 ohms 2 watts.
- 15-16 Resistor—carbon 100,000 ohms 1/4 watt.
- 17 Resistor—carbon 22,000 ohms 1/4 watt.
- 18 Resistor—carbon 2.2 meg. 1/4 watt.
- 19 Resistor—carbon 3.3 meg. 1/4 watt.
- 20 Resistor—carbon 2,200 ohms 1/4 watt.
- 21 Lamp—6.3 volt .25 amps.
- 22-23 Condenser—padder (530 to 630 mmfd.)
- 24 Resistor—.006 mfd. 600 volt
- 25 Switch—D.P.D.T. (Radio-Phono)
- 26A-26B Resistor—dynamic 6 in. (10%)
- 27A-27B Resistor—wire wound 50 ohms 1/2 watt
- 28 Resistor—dynamic 50 ohms 1/2 watt
- 30-31 Condenser—.1 mfd. 600 volt
- 32 Condenser—.01 mfd. 600 volt
- 33 Condenser—.2 mfd. 600 volt
- 34-35 Condenser—.05 mfd. 600 volt
- 36-37-38-39-40 Condenser—.02 mfd. 600 volt
- 41 Condenser—.002 mfd. 600 volt
- 42 Switch—push button
- 43 Tone control switch
- 44A-44B Volume control with switch—1 meg.

NOTE A: Bias on 6F6G output tube is —18 volts measured across resistors 29, 6 and 8.

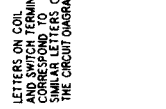
NOTE B: Bias on 6SQ7 grid is —1.5 volts measured across resistor 6.

STEWART-WARNER 01-6K and 01-6M CHASSIS

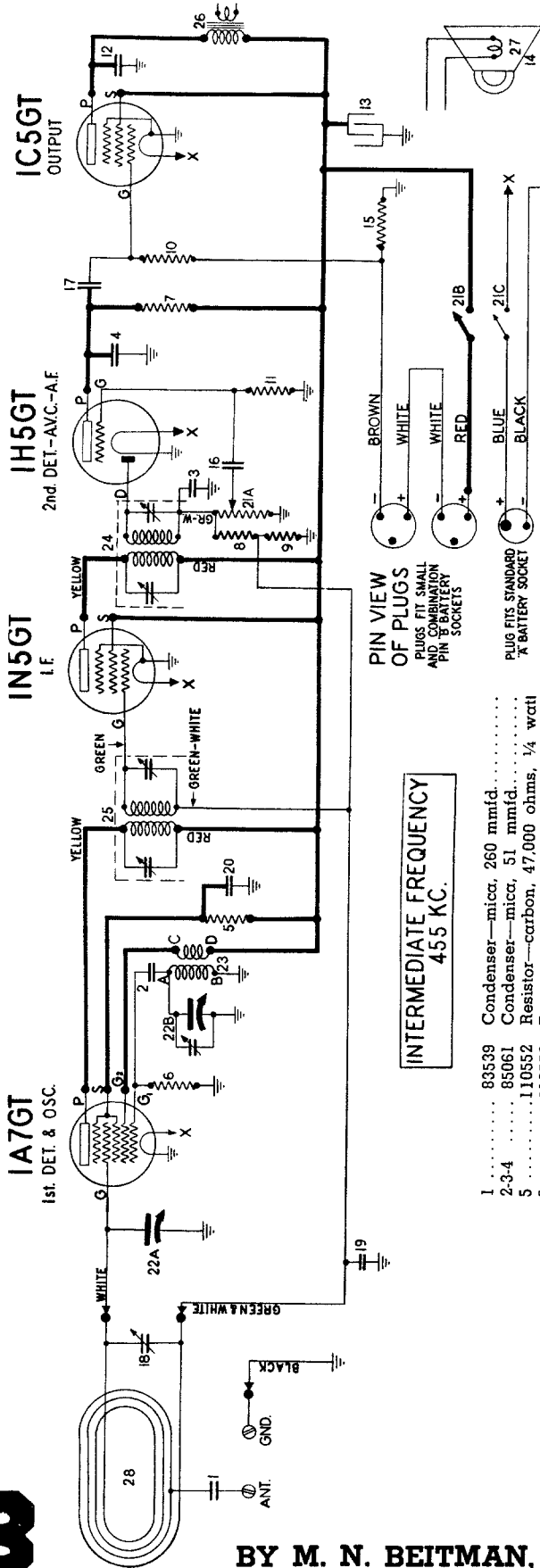


- NOTE "K": The 01-6M circuit is shown above. The 01-6K chassis does not have the phonograph attachment. In the 01-6K circuit, point "p" connects to point "Q" and point "R" is grounded to the chassis
- 40 Resistor—carbon 680,000 ohms 1/4 watt.
 - 41 Condenser—padding
 - 42A-42B Volume control—1 meg. (with switch)
 - 43A-43B Trimmer condenser—2 section
 - 44A to 44C Condenser—trimmer 3 section
 - 45 Switch—range
 - 46A-46B Condenser—gang (with drum)
 - 47 Coil—compensating
 - 48 Switch—tone control
 - 49 Transformer—1st I.F.
 - 50 Transformer—2nd I.F.
 - 51 Transformer—power
 - 52 Transformer—output—for U-115088 speaker
 - 53 Cone & Voice coil assembly for U-115088 speaker
 - 54 Coil—short wave oscillator
 - 55 Coil—B.C. & Pol. Oscillator
 - 56 Loop antenna (BC & POL) with cabinet back (01-6K only)
 - 57 Loop antenna (BC & POL) with cabinet back (01-6M only)
 - 58 Short wave loop antenna assembly complete (01-6K only)
 - 59 Short wave loop antenna assembly complete (01-6M only)
 - 59A-59B Condenser—electrolytic 20-40 mid. 200

- 1 Condenser—mica 260 mmfd.
- 2 Condenser—mica 260 mmfd. (Model 01-6K only)
- 3 Condenser—mica 50 mmfd. (Model 01-6M only)
- 3-4 Lamp—6.8 volt Mazda No. 51
- 5 Condenser—mica 110 mmfd.
- 5-6 Condenser—mica 50 mmfd.
- 7 Condenser—mica .0042 mid.
- 8 Resistor—carbon 47,000 ohms 1/4 watt.
- 9 Resistor—carbon 220,000 ohms 1/4 watt.
- 10 Resistor—carbon 220,000 ohms 1/4 watt (Model 01-6M only)
- 11 Resistor—carbon 470,000 ohms 1/4 watt.
- 12-13 Resistor—carbon 100 ohms 1/4 watt.
- 14 Resistor—carbon 100,000 ohms 1/4 watt.
- 15 Resistor—carbon 3.3 meg. 1/4 watt.
- 16 Condenser—mica 1650 mmfd. (3%)
- 17 Resistor—carbon 3,300 ohms 1/4 watt.
- 18-19 Resistor—carbon 220,000 ohms 1/4 watt.
- 20 Resistor—carbon 1.5 meg. 1/4 watt.
- 21 Resistor—insulated 470 ohms 1/4 watt.
- 22 Resistor—150 ohms 1/4 watt.
- 23 Resistor—dynamic 6 1/2"
- 24 Speaker
- 25 U
- 26-27-28 Condenser—.01 mfd. 600 volt
- 29 Condenser—.01 mfd. 600 volt (shielded)
- 30 Condenser—.004 mfd. 600 volt
- 31 Condenser—.2 mfd. 600 volt.
- 32-33 Condenser—trimmer
- 34 Condenser—.05 mfd. 600 volt
- 35-36-37 Condenser—.04 mfd. 600 volt.
- 38 Switch "Radio-Phono" with escutcheon (Model 01-6M only)
- 39



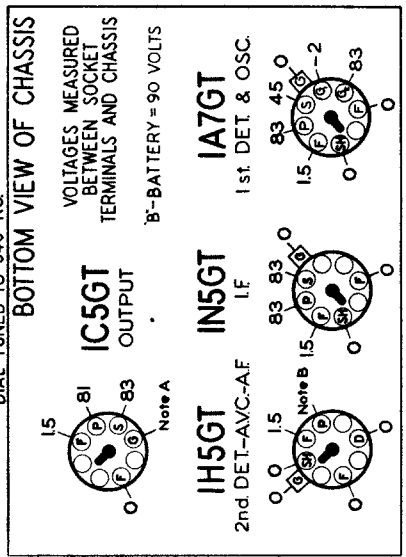
STEWART-WARNER MODEL 02-4A CHASSIS



INTERMEDIATE FREQUENCY
455 KC.

- 1 83539
 - 2-3-4 85061
 - 5 110552
 - 6 110553
 - 7 110554
 - 8-9-10 110570
 - 11 110580
 - 12 113035
 - 13 113118
 - 14 U-115068
 - 15 116061
 - 16-17 116640
 - 18 116781
 - 19-20 116819
 - 21A-21B-21C 117706
 - 22A-22B 117707
 - 23 117741
 - 24 117742
 - 25 117743
 - 26 117782
 - 27 U-118280
 - 28 117914
- Condenser—mica, 260 mmfd.
 - Condenser—mica, 51 mmfd.
 - Resistor—carbon, 47,000 ohms, 1/4 watt
 - Resistor—carbon, 220,000 ohms, 1/4 watt
 - Resistor—carbon, 1 megohm, 1/4 watt.
 - Resistor—carbon, 2.2 meg., 1/4 watt.
 - Resistor—carbon, 3.3 meg., 1/4 watt.
 - Condenser—Ceramic Tube, .006 mfd., 600 volt
 - Condenser—Electrolytic—8 mfd., 150 volt
 - Speaker—P.M. Dynamic (4 in.)
 - Resistor—800 ohm, 1/4 watt
 - Condenser—.01 mfd., 600 volt
 - Trimmer Condenser
 - Condenser—.05 mfd., 600 volt
 - Volume Control—1 meg., with switch.
 - Condenser—Tuning
 - Coil—Oscillator
 - Transformer—2nd I.F.
 - Transformer—1st I.F.
 - Transformer—Output
 - Cone & Voice Coil Assembly for U-115068 Speaker
 - Loop Antenna

SOCKET VOLTAGES
DIAL TUNED TO 540 KC.



PIN VIEW OF PLUGS OF PLUGS FIT SMALL AND COMBINATION PIN BATTERY SOCKETS

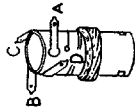
BROWN
WHITE
WHITE
RED

PLUG FITS STANDARD BATTERY SOCKET

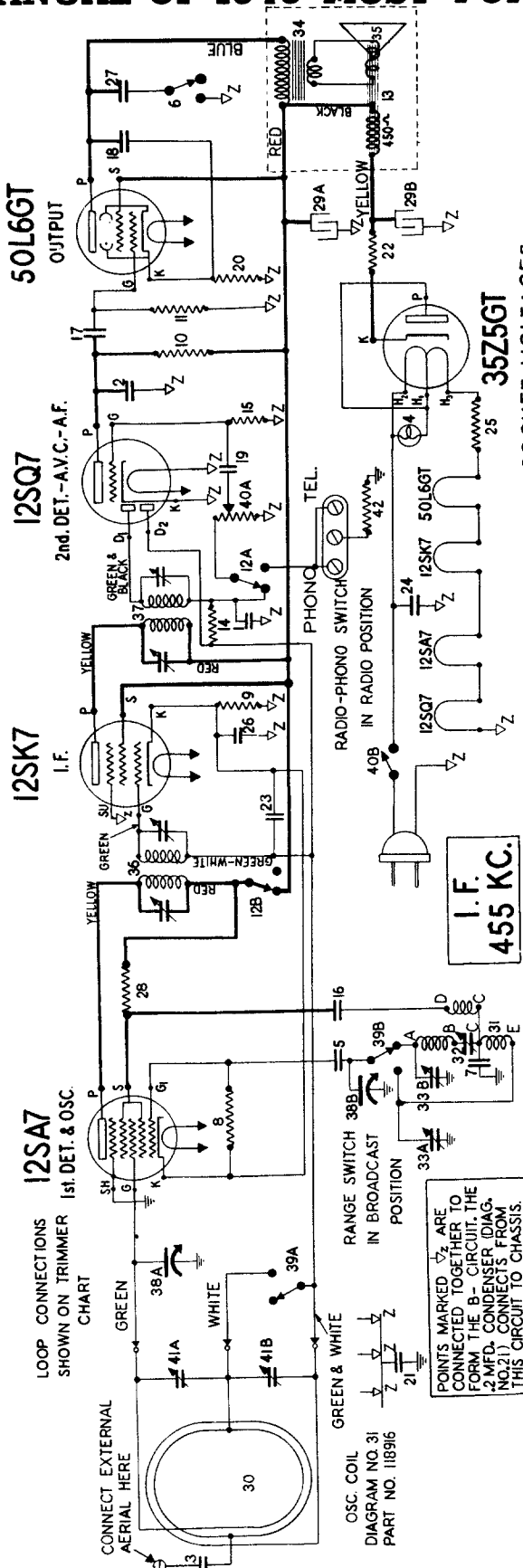
BLUE
BLACK

NOTE
TERMINALS OF COIL SHOWN IN ILLUSTRATION ARE LETTERED TO CORRESPOND TO SIMILARLY LETTERED TERMINALS ON THE CIRCUIT DIAGRAM.

OSCILLATOR COIL
DIAGRAM NO. 23
PART NO. 117741



STEWART-WARNER 03-5S CHASSIS



SOCKET VOLTAGES

VOLUME ON FULL WITH NO SIGNAL

VOLTAGES MEASURED BETWEEN SOCKET TERMINALS AND B-LUG LINE VOLTAGE 117 VOLTS

VOLTAGE ACROSS SPEAKER FIELD 28 VOLTS

12SQ7
2nd DET.-A.V.C.-A.F.
Note A

12SA7
1st DET & OSC.

12SK7
I.F.

50L6GT
OUTPUT

35Z5GT
RECTIFIER

BOTTOM VIEW OF CHASSIS

Use a High Resistance Voltmeter of at Least 1000 Ohms per Volt.

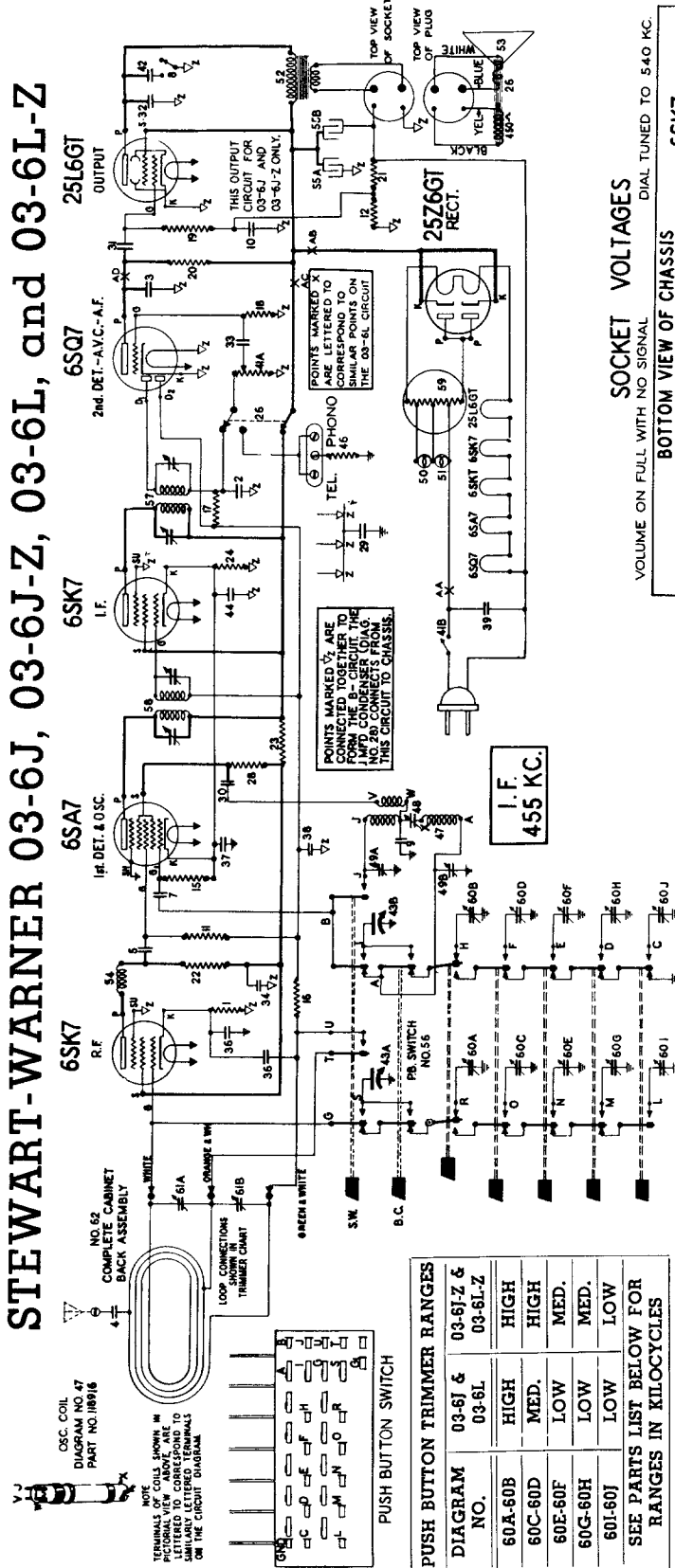
NOTE A: The reading on this plate will be small because of the high resistance of resistor No. 10

- 1-2 ... Condenser—mica 260 mmd.
- 3 ... Condenser—mica 110 mmd.
- 4 ... Lamp—dial 6 to 8 volt (Mazda 51).
- 5 ... Condenser—mica 26 mmd.
- 6 ... Switch—tone control.
- 7 ... Condenser—mica .002 mtd.
- 8 ... Resistor—carbon 47,000 ohms 1/4 watt.
- 9 ... Resistor—carbon 100 ohms 1/4 watt.
- 10 ... Resistor—carbon 680,000 ohms 1/4 watt.
- 11 ... Resistor—carbon 470,000 ohms 1/10 watt.
- 12A-12B Switch—D.P.D.T. (Radio-Phono).
- 13 ... Speaker—dynamic (5").
- 14-15 ... Resistor—insulated 3.3 megohms 1/4 watt.
- 16-17-18 Condenser—.01 mtd. 600 volt.
- 19 ... Condenser—.004 mtd. 600 volt.
- 20 ... Resistor—140 ohms 1/2 watt wire wound.
- 21 ... Condenser—.2 mtd. 600 volt.
- 22 ... Resistor—.33 ohms 1 watt wire wound.
- 23-24 ... Condenser—.05 mtd. 600 volt.
- 25 ... Resistor—.20 ohms 1 watt.
- 26 ... Condenser—.25 mtd. 600 volts.
- 27 ... Condenser—.07 mfd. 600 volts.
- 28 ... Resistor—insulated 680 ohms 1/4 watt.
- 29A-29B Condenser—electrolytic—20-20 mfd. 150 volt.
- 30 ... Cabinet back and loop antenna complete (03-5S1).
- 31 ... Coil—oscillator.
- 32 ... Condenser—padding.
- 33A-33B Trimmer strip (2 sect.).
- 34 ... Transformer—output for R-115085 speaker.
- 35 ... Cone & Voice coil for R-115085 speaker.
- 36 ... Transformer—1st I.F.
- 37 ... Transformer—2nd I.F.
- 38A-38B Gang condenser & push button unit.
- 39A-39B Range switch.
- 40A-40B Volume control—1 meg. (with switch).
- 41A-41B Condenser—trimmer for loop antenna.
- 42 ... Resistor—220,000 ohms 1/4 watt (on underwriters' approved sets only).

STEWART-WARNER 03-6J, 03-6J-Z, 03-6L, and 03-6L-Z

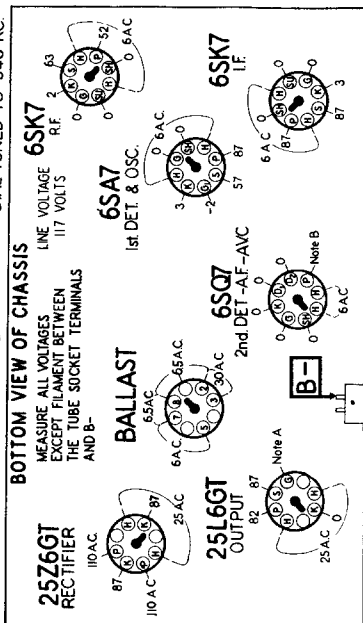
140

COMPILED BY M. N. BEITMAN, SUPREME PUBLICATIONS



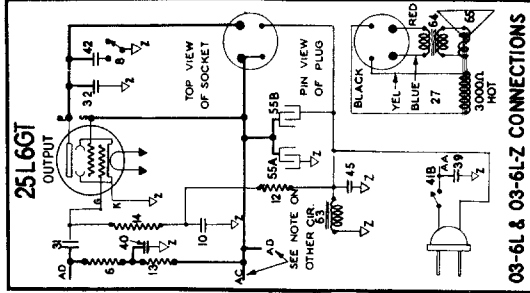
SOCKET VOLTAGES

VOLUME ON FULL WITH NO SIGNAL DIAL TUNED TO 540 KC.



REAR OF CHASSIS

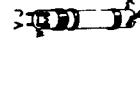
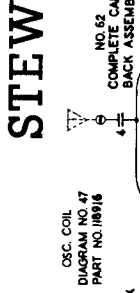
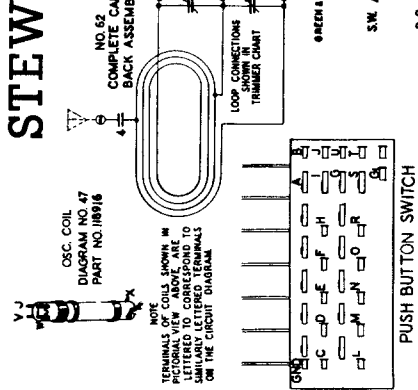
These readings taken using a voltmeter of 1000 ohms per volt.
NOTE A: The bias on the 25L6GT grid is: on 03-6J chassis: —4 volts measured across resistor No. 12; on 03-6L chassis: —5 volts measured across choke No. 63.
NOTE B: Due to the high resistance of resistors No. 20, 6, and 13, only a small voltage will be read at the plate of the 6SQ7 when using a voltmeter having a resistance of 1000 ohms per volt.



PUSH BUTTON TRIMMER RANGES	
DIAGRAM NO.	03-6J & 03-6L HIGH MED. LOW
60A-60B	HIGH HIGH MED. LOW
60C-60D	HIGH HIGH MED. LOW
60E-60F	HIGH HIGH MED. LOW
60G-60H	HIGH HIGH MED. LOW
60I-60J	HIGH HIGH MED. LOW

SEE PARTS LIST BELOW FOR RANGES IN KILOCYCLES

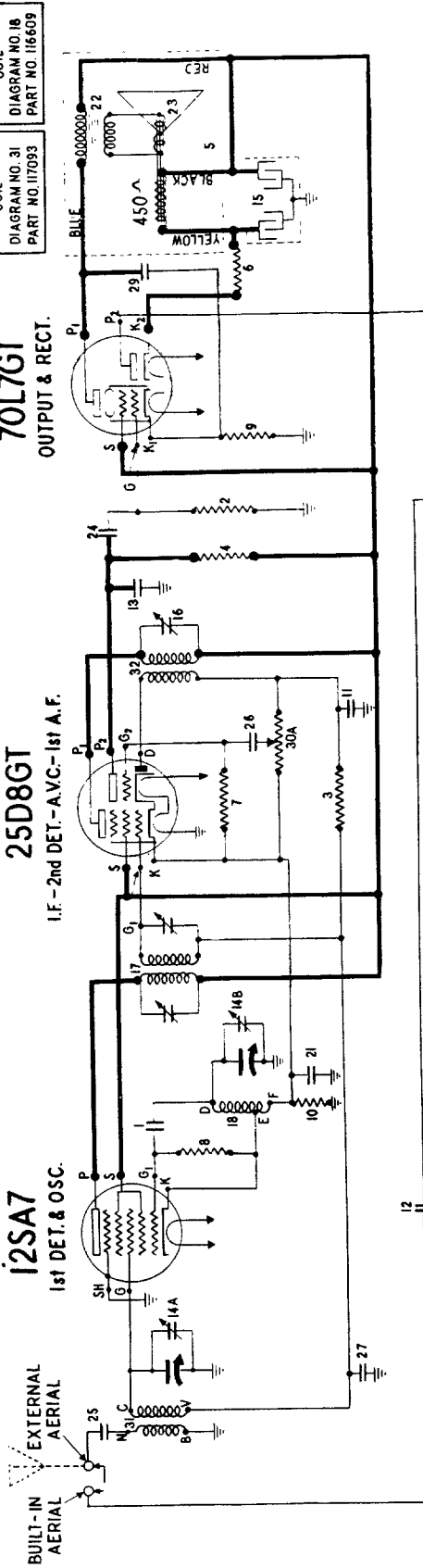
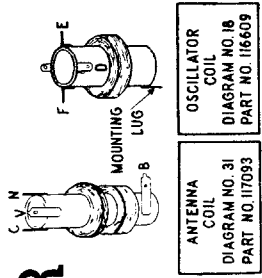
- 1 Resistor—carbon 400 ohms 1/4 watt
- 2-3 Condenser—mica 260 mmfd.
- 4-5 Condenser—mica 110 mmfd.
- 6 Resistor—carbon 470,000 ohms 1/4 watt
- 7 Condenser—mica 51 mmfd.
- 8 Switch—tone
- 9 Condenser—mica .002 mfd.
- 10 Condenser—10 mfd. 35 volt (03-6L & 03-6L-Z only)
- 11 Condenser—1 mfd. 600 volt (03-6J & 03-6J-Z only)
- 12 Resistor—carbon 47,000 ohms 1/4 watt
- 13 Resistor—carbon 220,000 ohms 1/4 watt
- 13-14 Resistor—carbon 220,000 ohms 1/4 watt (03-6L & 03-6L-Z only)
- 15 Resistor—carbon 100,000 ohms 1/4 watt
- 16 Resistor—carbon 470,000 ohms 1/4 watt
- 17-18 Resistor—carbon 3.3 meg. 1/4 watt
- 19 Resistor—carbon 330,000 ohms 1/4 watt (03-6J & 03-6J-Z only)
- 20-21 Resistor—carbon 680,000 ohms 1/4 watt (03-6J & 03-6J-Z only)
- 22 Resistor—carbon 3,300 ohms 1/4 watt
- 23 Resistor—carbon 1,500 ohms 1/4 watt
- 24 Resistor—carbon 220 ohms 1/4 watt
- 25 Switch—D.P.D.T.
- 26 Speaker—dynamic (5") (03-6J & 03-6J-Z only)
- 27 Speaker—dynamic (8") (03-6L7 & 03-6L7-Z)
- 28 Resistor—carbon 680 ohms 1/4 watt
- 29 Condenser—1 mfd. 600 volt
- 30-31-32 Condenser—.01 mfd. 600 volt
- 33 Condenser—.004 mfd. 600 volt
- 34 Condenser—.2 mfd. 600 volt
- 35 to 39 Condenser—.05 mfd. 600 volt
- 40 Condenser—.05 mfd. 600 volt (03-6L & 03-6L-Z only)
- 41A-41B Volume control—1 megohm (with switch)
- 42 Condenser—.04 mfd. 600 volts
- 43A-43B Condenser—tuning (with drum)
- 44 Condenser—.25 mfd. 600 volts
- 45 Condenser—.5 mfd. 150 volts (03-6L & 03-6L-Z only)
- 46 Resistor—220,000 ohms 1/4 watt (on Underwriters' approved sets)
- 47 Coil—oscillator
- 48 Condenser—padding
- 49A-49B Trimmer strip (2 section)
- 50-51 Lamp—dial 6.3 volts 25 amps.



STEWART-WARNER "AIR-PAL" RECEIVER MODEL A-6S (07-32 CHASSIS)

THIS MANUAL APPLIES ONLY TO THE RECEIVER MARKED A-6S.
A SEPARATE MANUAL HAS BEEN ISSUED FOR THE RECEIVER MARKED A-6.

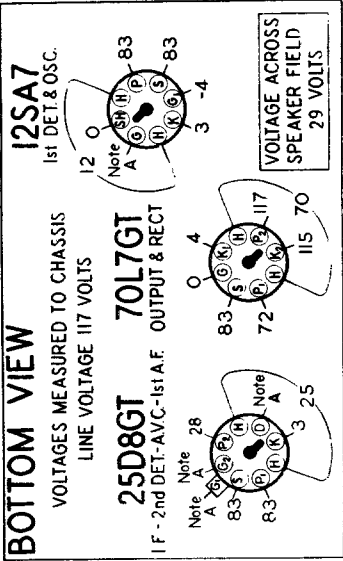
25D8GT I.F. - 2nd DET.-AVC.-1st A.F. 70L7GT OUTPUT & RECT.



I.F. 455 KC.

SOCKET VOLTAGES

VOLUME CONTROL SET AT MAXIMUM VOLUME POSITION
DIAL TUNED TO 540 KC.
ANTENNA GROUND



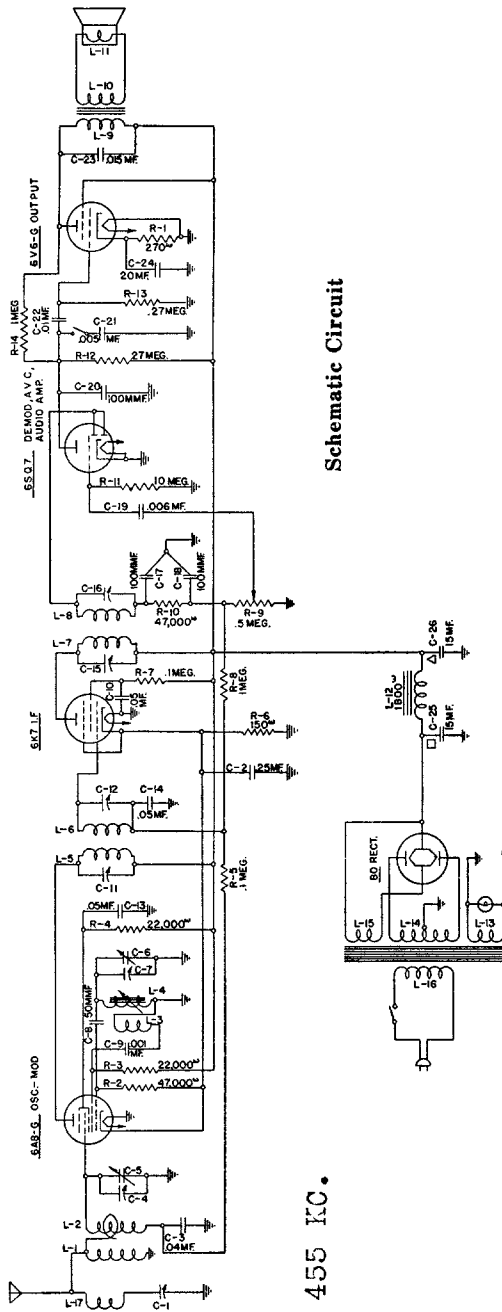
REAR OF CHASSIS

NOTE A: Due to the high resistance of resistors No. 3, No. 7, and No. 30A, only a very slight deflection will be obtained on a meter having a resistance of 1000 ohms per volt.

- 17 Transformer—1st I.F.
- 18 Coil—oscillator
- 19 Coil—R. F. Choke
- 20 Resistor—65 ohms, 2 watts, Wire Wound
- 21 Condenser—.1 mid., 600 volt
- 22 Transformer — output for R-115053 speaker
- 23 Cone & Voice coil assembly for R-115053 speaker
- 24 Condenser—.01 mid., 600 volt
- 25-26 Condenser—.004 mid., 600 volt
- 27 Condenser—.05 mid., 600 volt
- 28-29 Condenser—.02 mid., 600 volt
- 30A-30B Volume control (500,000 ohms—with switch)
- 31 Coil—antenna
- 32 Transformer—2nd I.F.
- 1 Condenser—mica, 110 mmf.
- 2 Resistor—insulated, 470,000 ohms, 1/4 watt
- 3 Resistor—insulated, 1 megohm, 1/4 watt
- 4 Resistor—insulated, 220,000 ohms, 1/4 watt
- 5 Speaker—dynamic 3"
- 6 Resistor—50 ohm, 1 watt
- 7 Resistor—insulated, 10 megohm, 1/4 watt
- 8 Resistor—insulated, 22,000 ohm, 1/4 watt
- 9 Resistor—insulated, 100 ohm 1/2 watt
- 10 Resistor—insulated, 100 ohm, 1/4 watt
- 11-12-13 Condenser—mica, 260 mmf.
- 14A-14B Condenser—2 gang tuning
- 15 Condenser—electrolytic, Dual 20 mid. 150 volt
- 16 Condenser—trimmer for 2nd I.F.

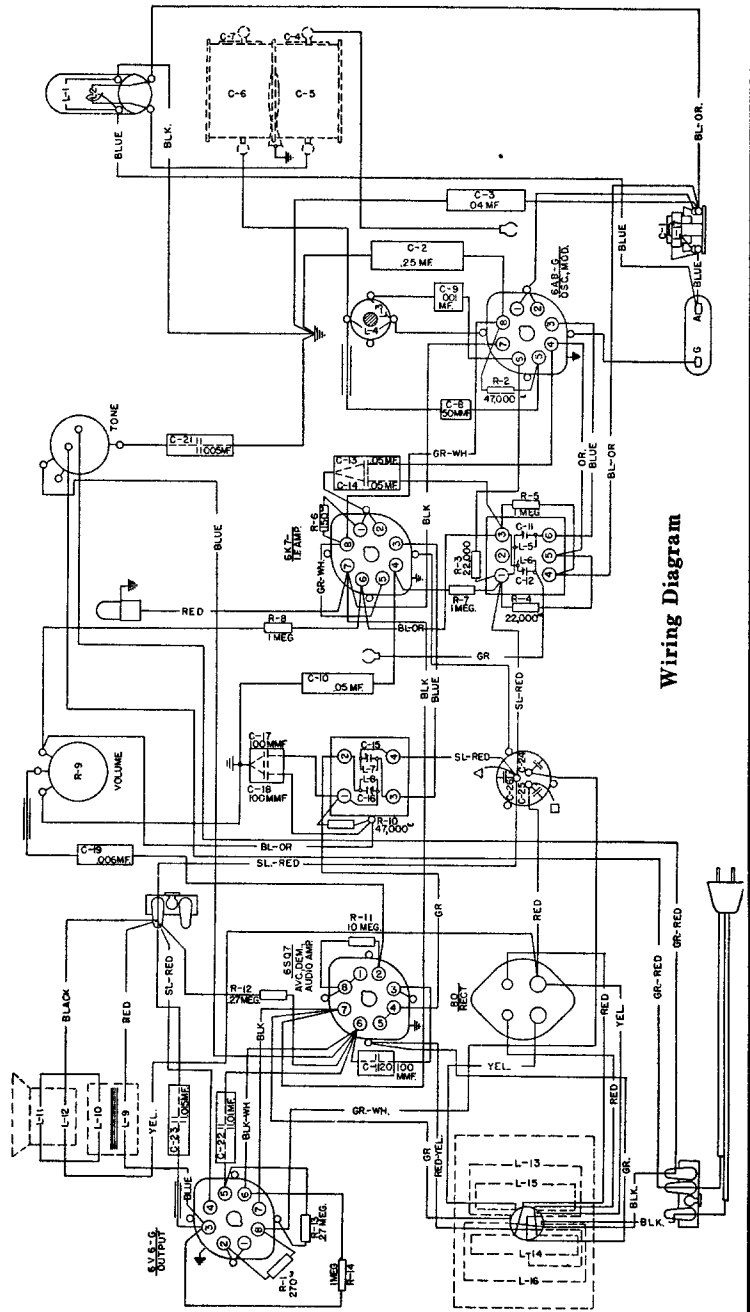
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

ENGINEERING DATA STROMBERG-CARLSON NO. 400 RADIO RECEIVERS



Schematic Circuit

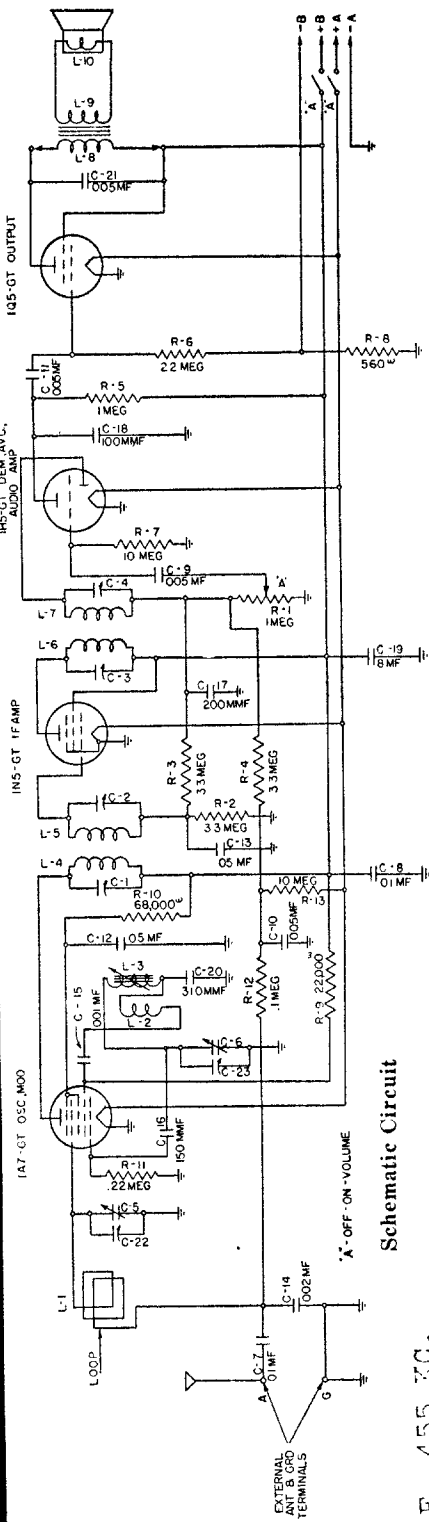
I.F. 455 KC.



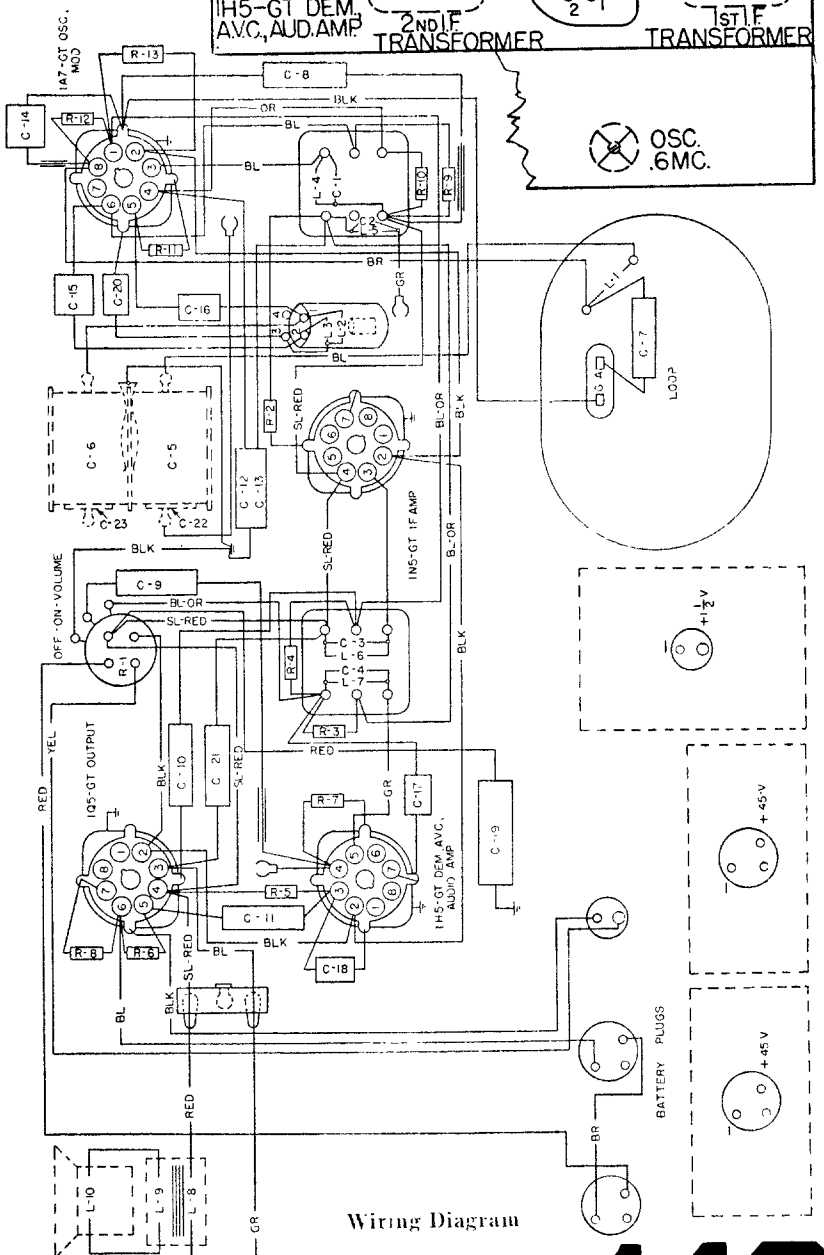
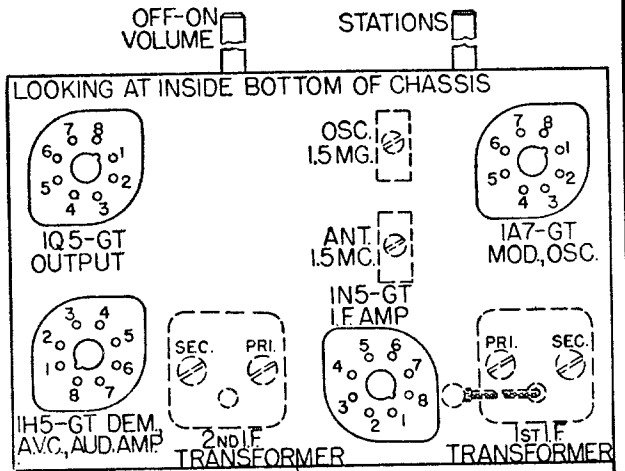
Wiring Diagram

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

STROMBERG-CARLSON NO. 402

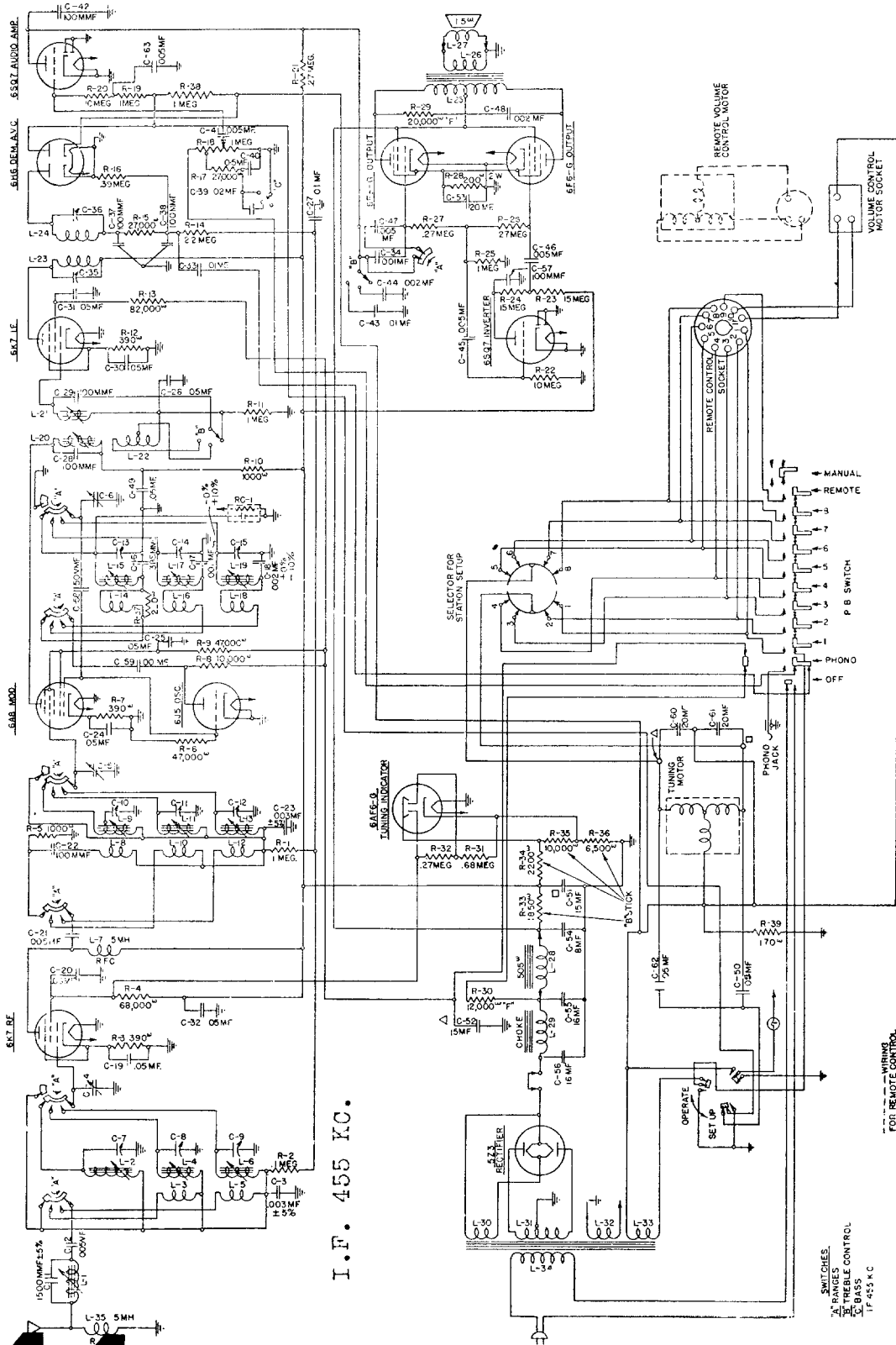


I.F. 455 KC.

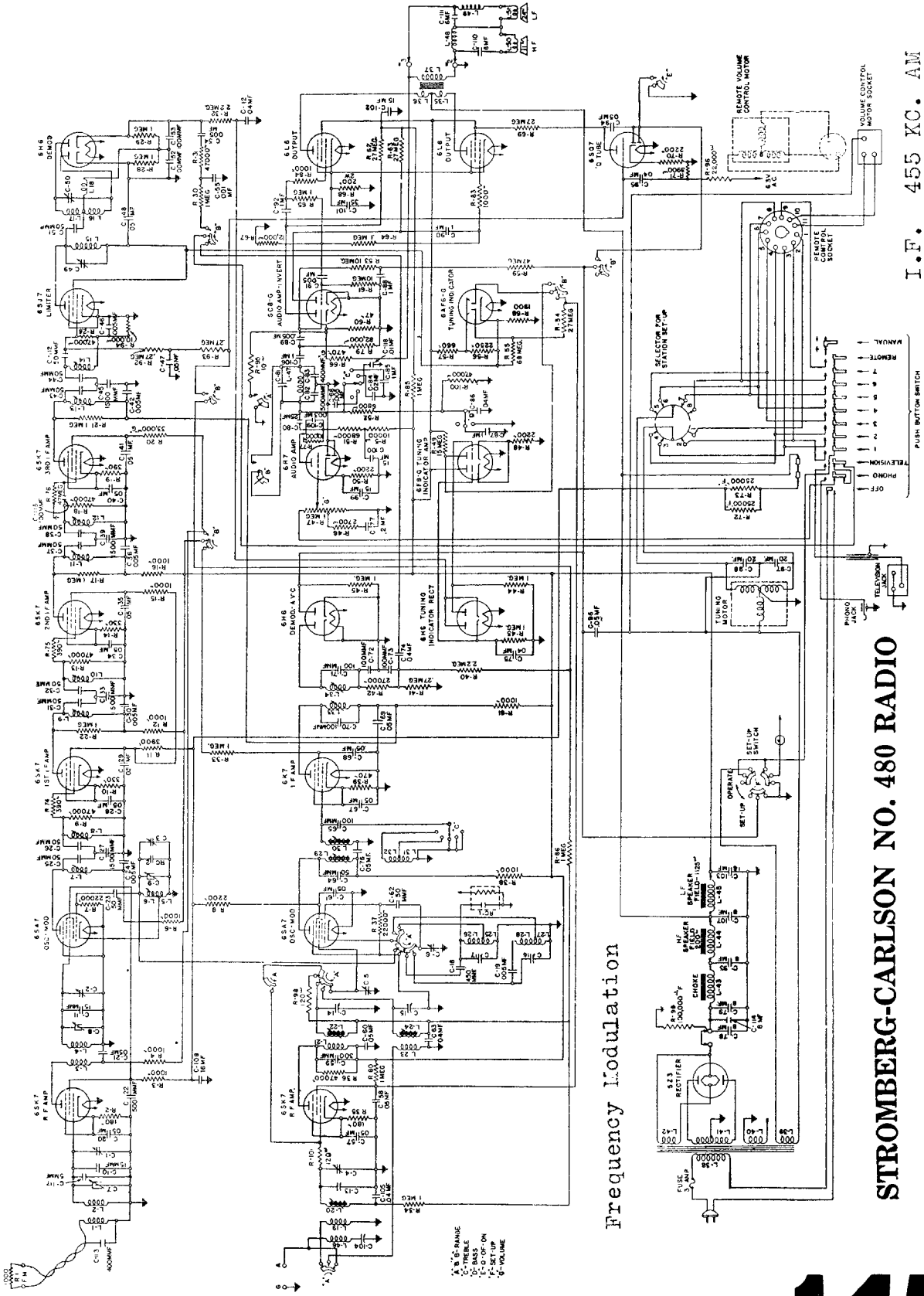


MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

STROMBERG-CARLSON NO. 450 RADIO RECEIVERS



MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

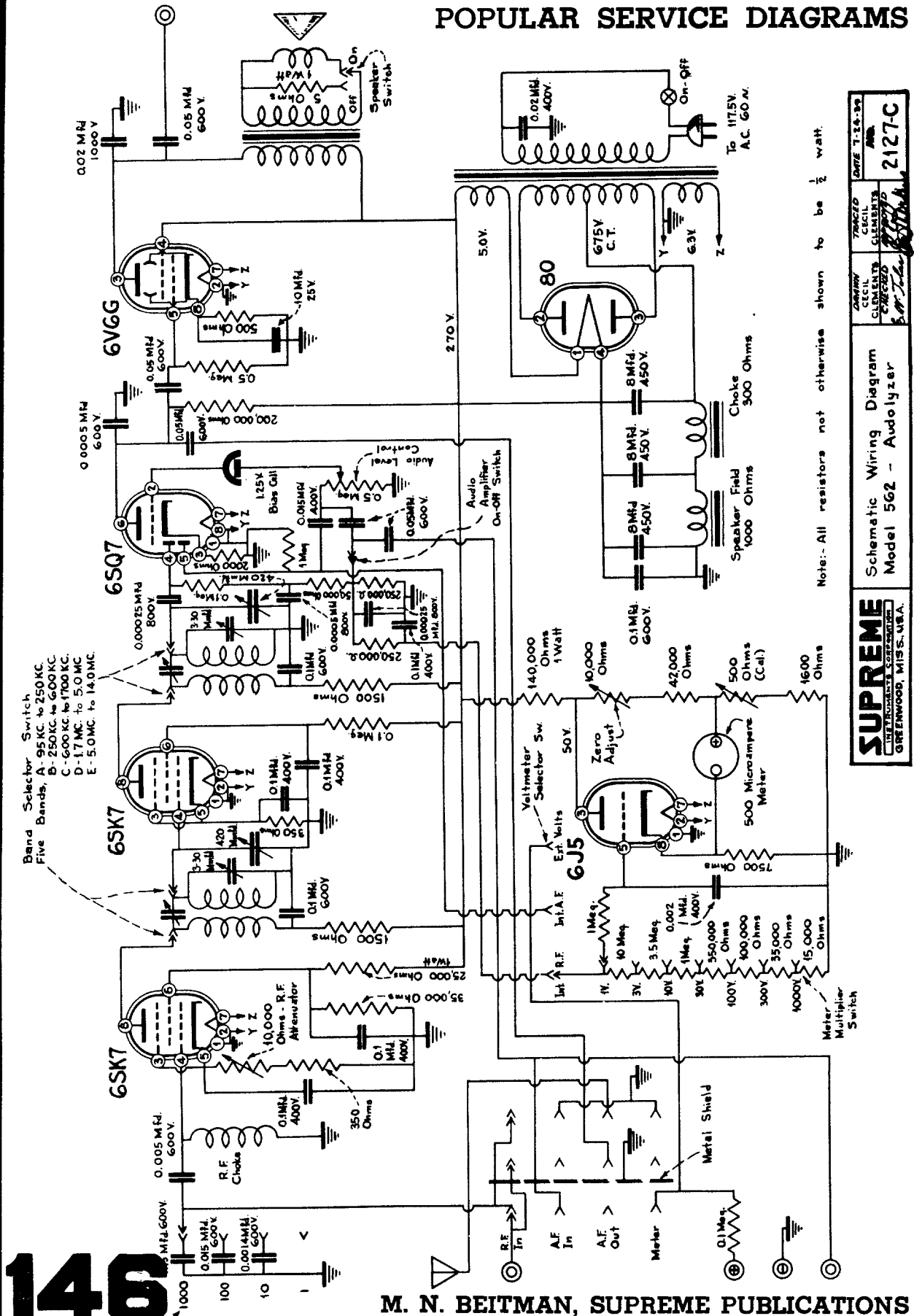


STROMBERG-CARLSON NO. 480 RADIO

Schematic Diagram

I.F. 455 KC. AM
I.F. 3000 KC. FM

Frequency Modulation



Note:--All resistors not otherwise shown to be $\frac{1}{2}$ watt.

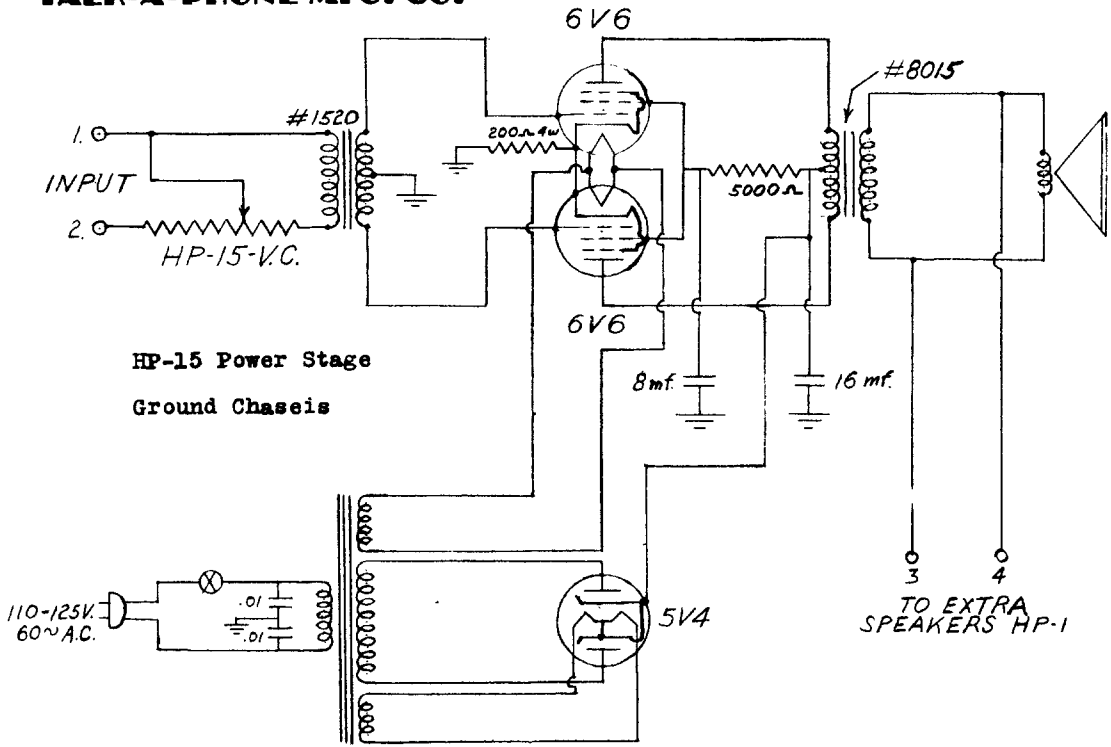
SUPREME
THE ORIGINAL SOURCE OF SERVICE DIAGRAMS
 GREENWOOD, MISS. U.S.A.

Schematic Wiring Diagram
 Model 562 - Audolyzer

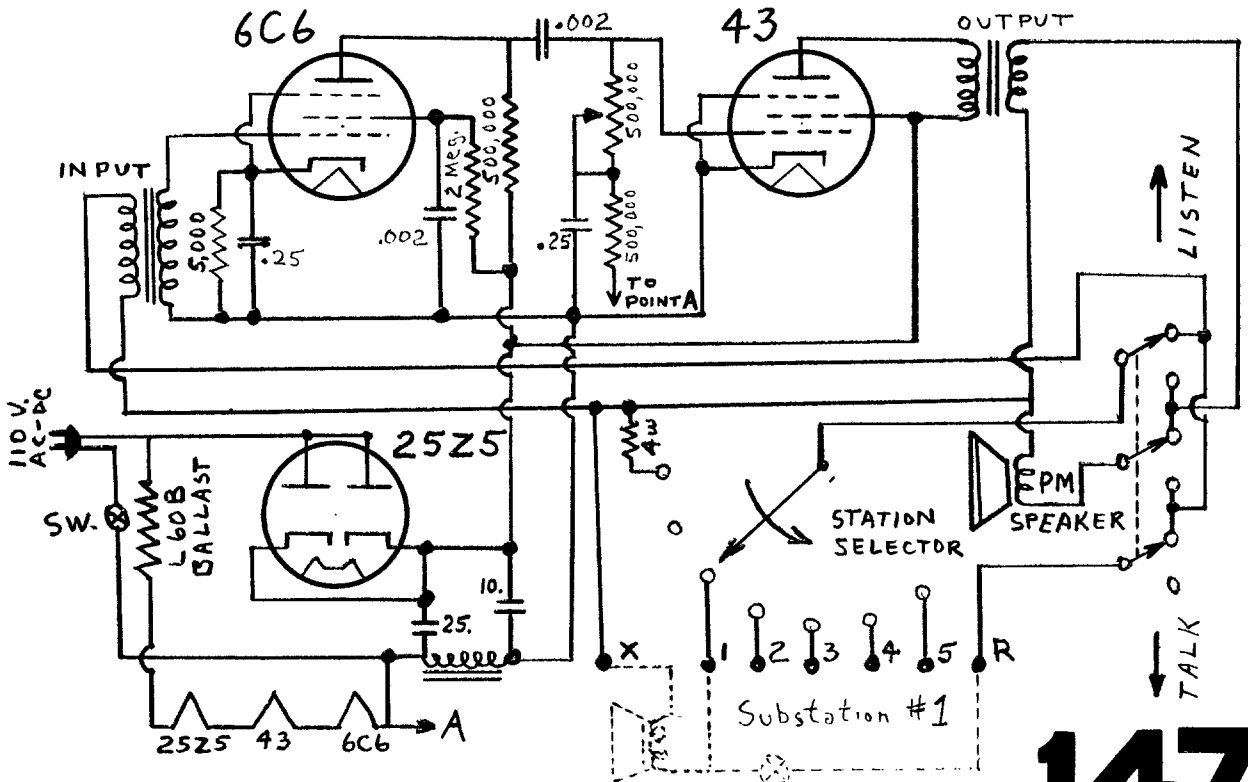
OWNER	TRACED	DATE
CLEMENTS	CECIL	7-14-58
CLEMENTS	CLEMENTS	AND
CLEMENTS	CLEMENTS	2127-C

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

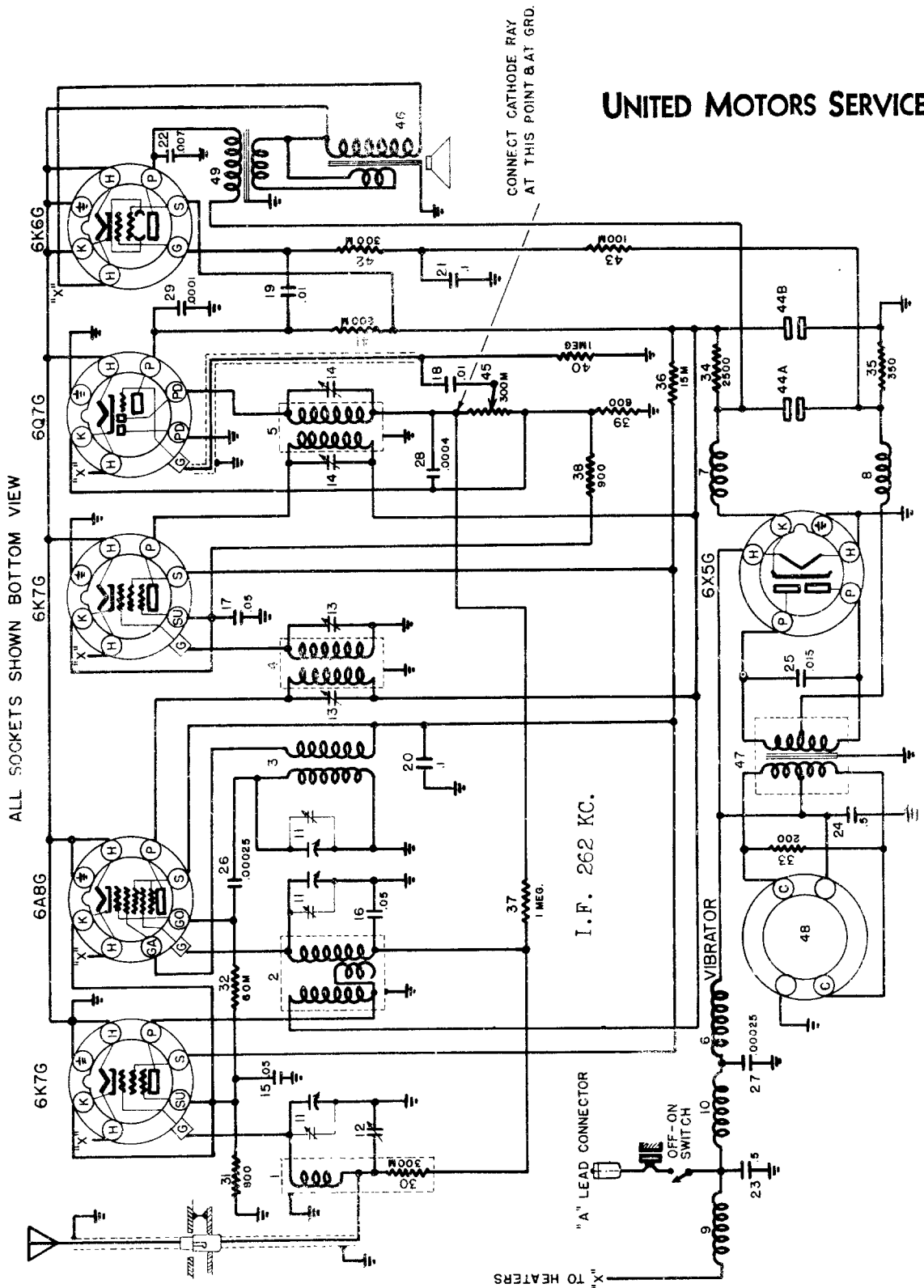
TALK-A-PHONE MFG. CO.



MASTER SYSTEM INTERCOMMUNICATOR

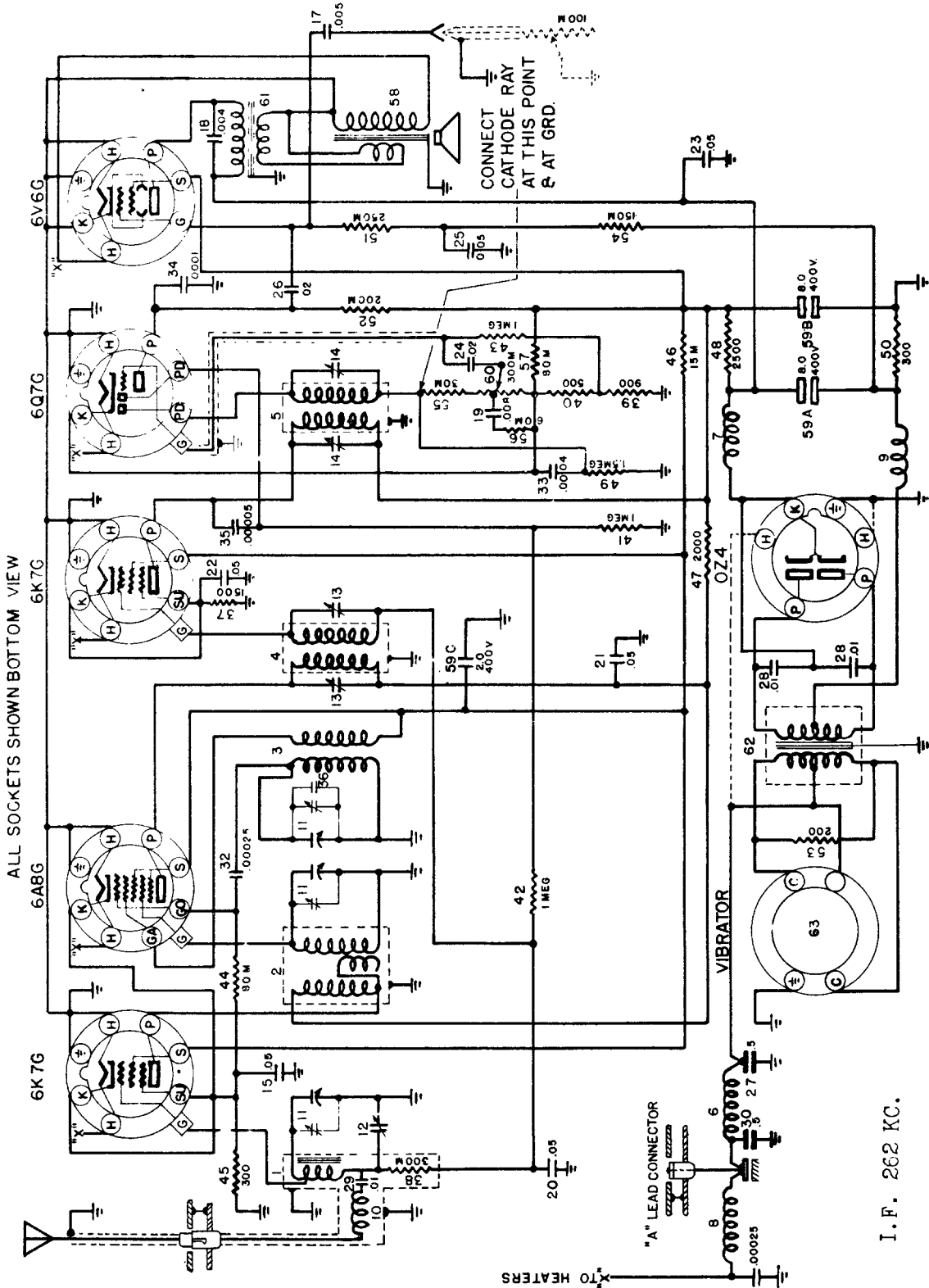


UNITED MOTORS SERVICE



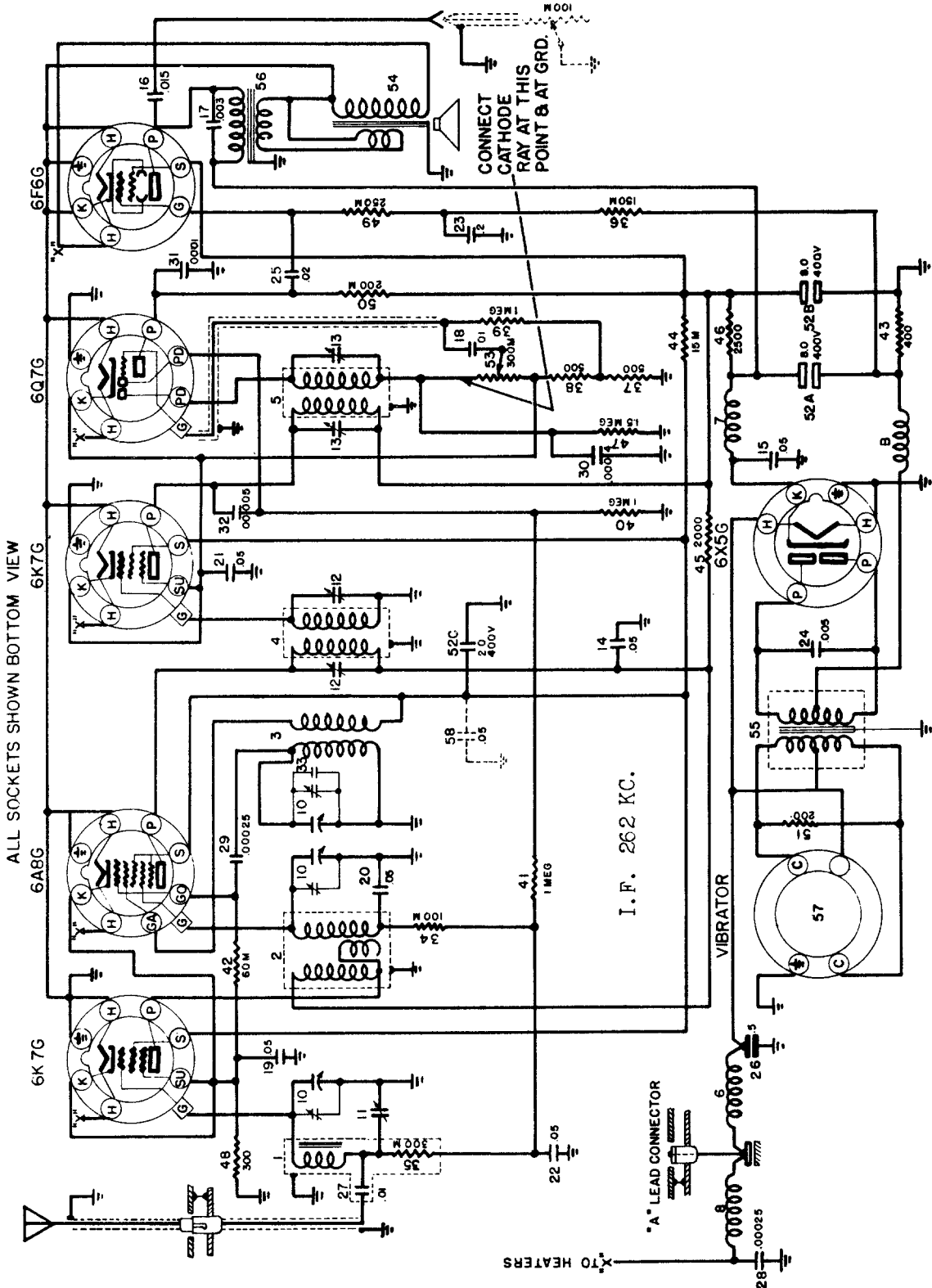
DELCO MODEL R-663 CIRCUIT DIAGRAM

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

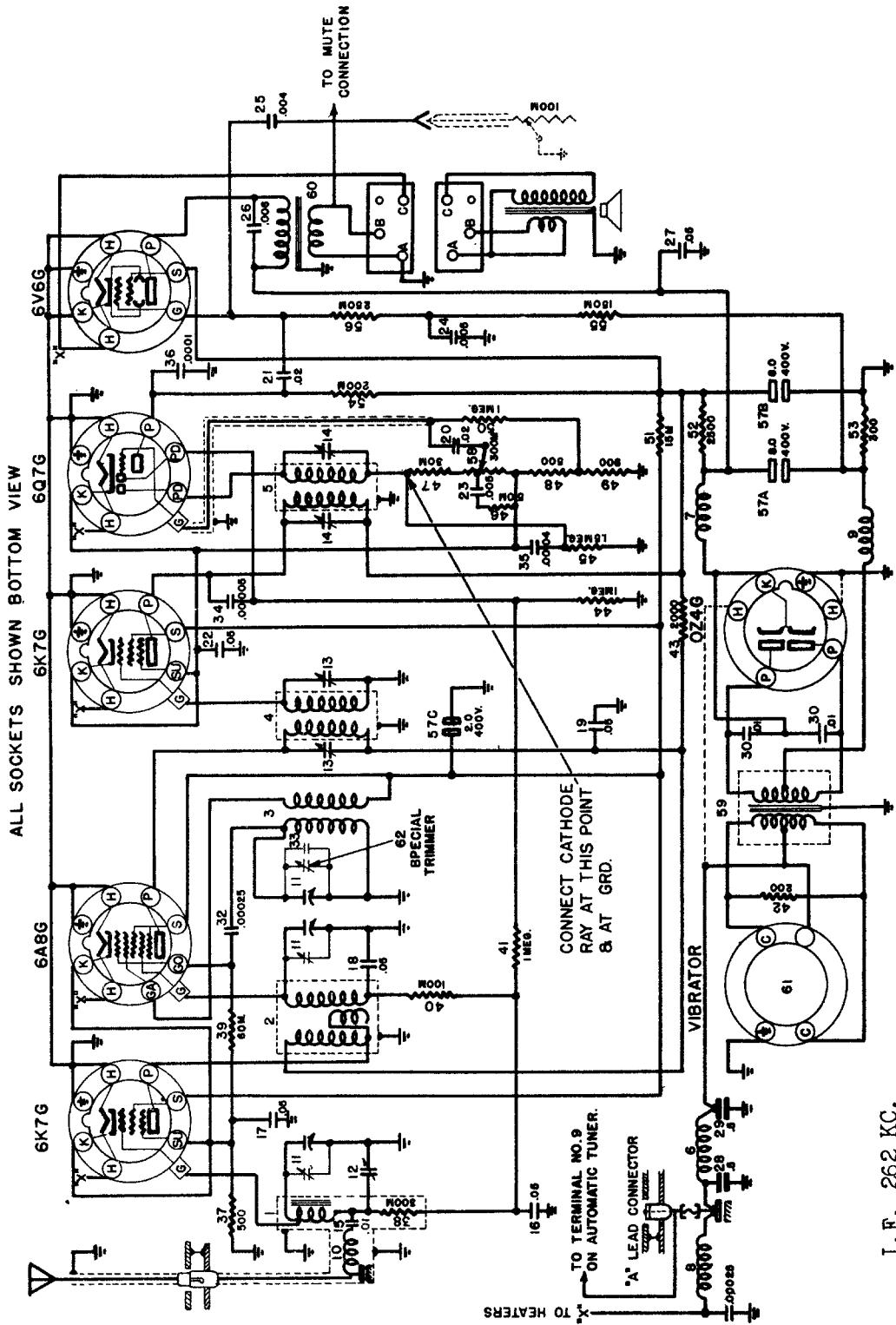


DELCO MODEL R-665 CIRCUIT DIAGRAM

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



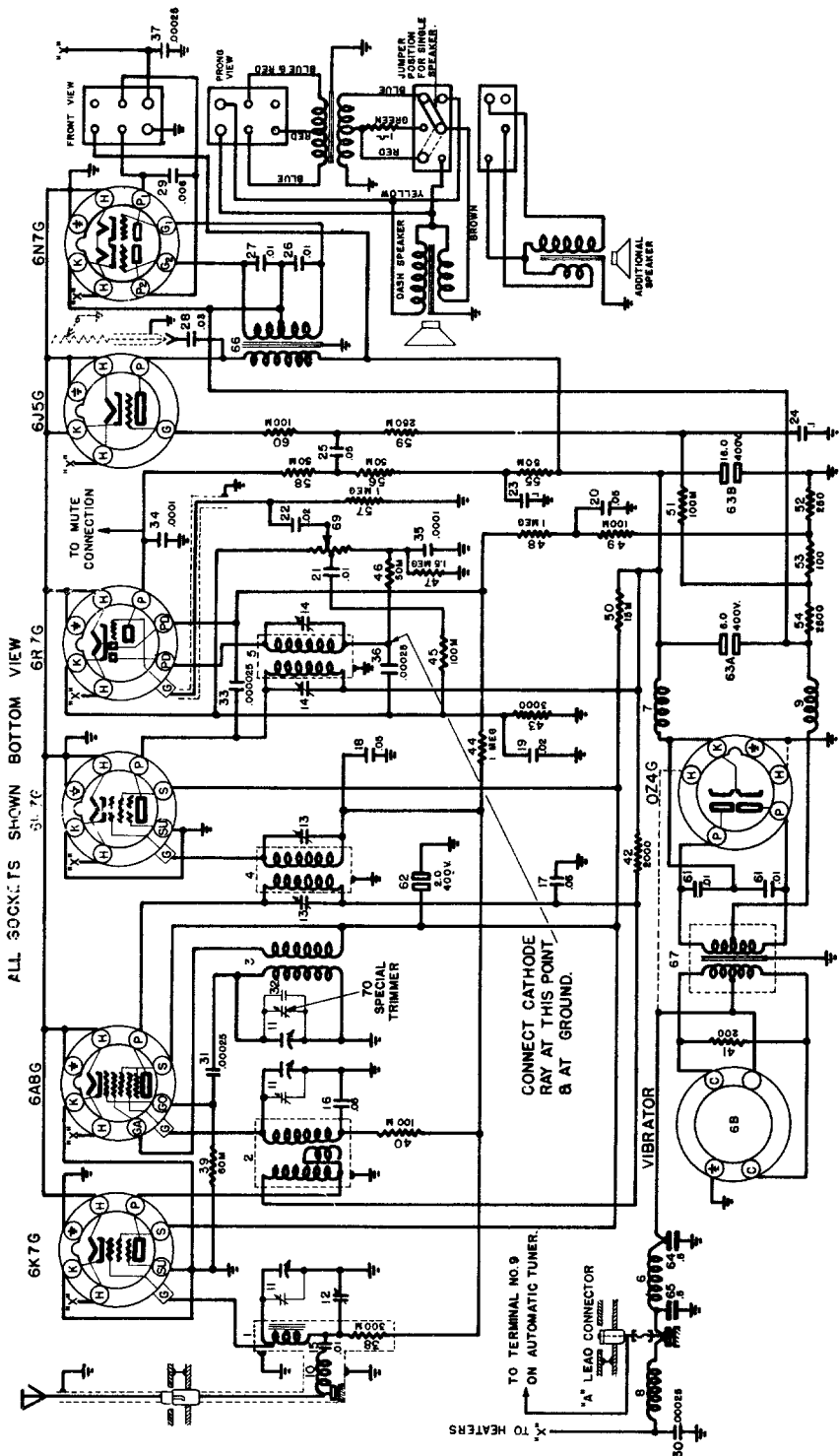
DELCO MODEL R-664 CIRCUIT DIAGRAM



DELCO MODEL R-666-7 CIRCUIT DIAGRAM

I. F. 262 KC.

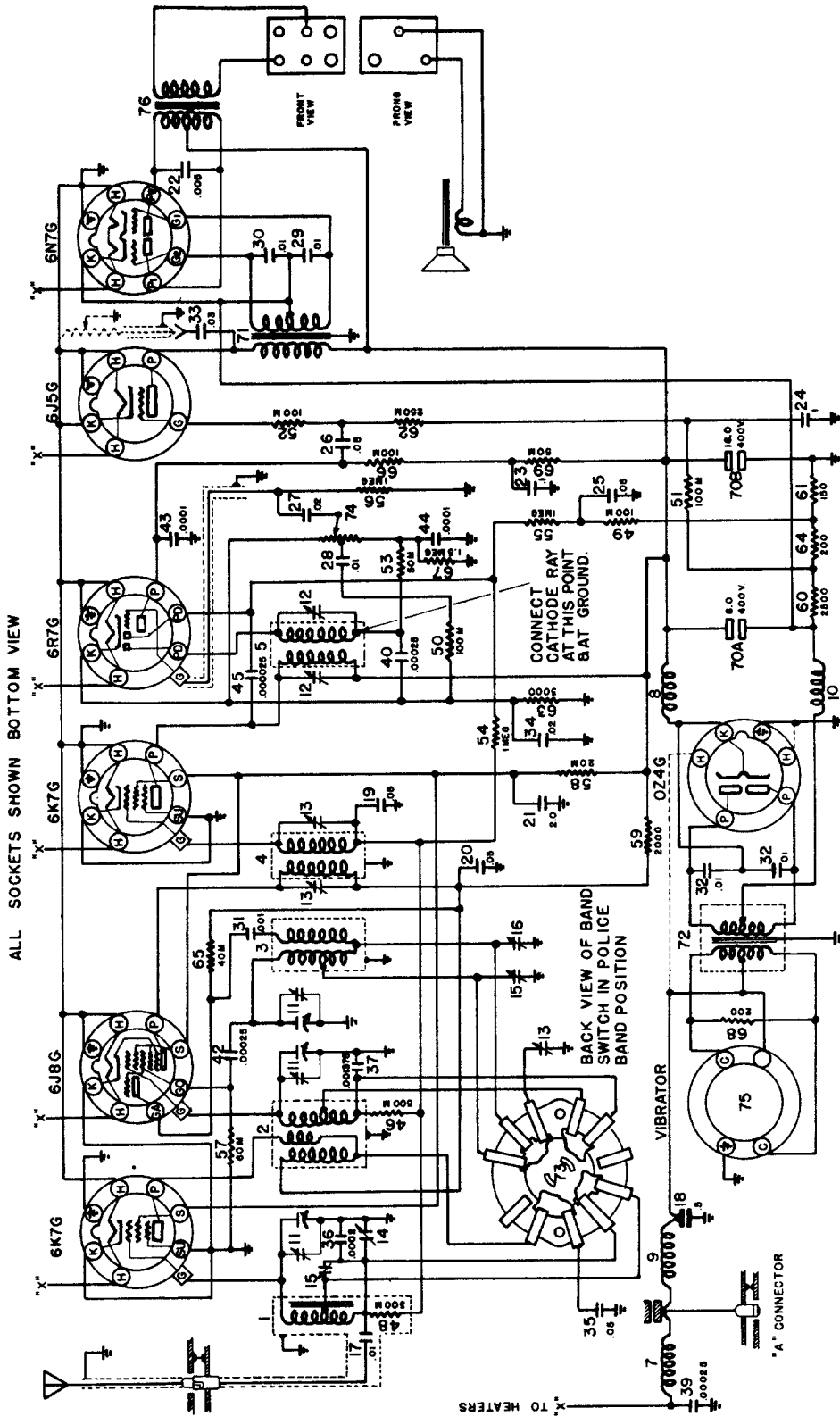
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



DELCO MODEL R-668-9 CIRCUIT DIAGRAM

I. F. 262 KC.

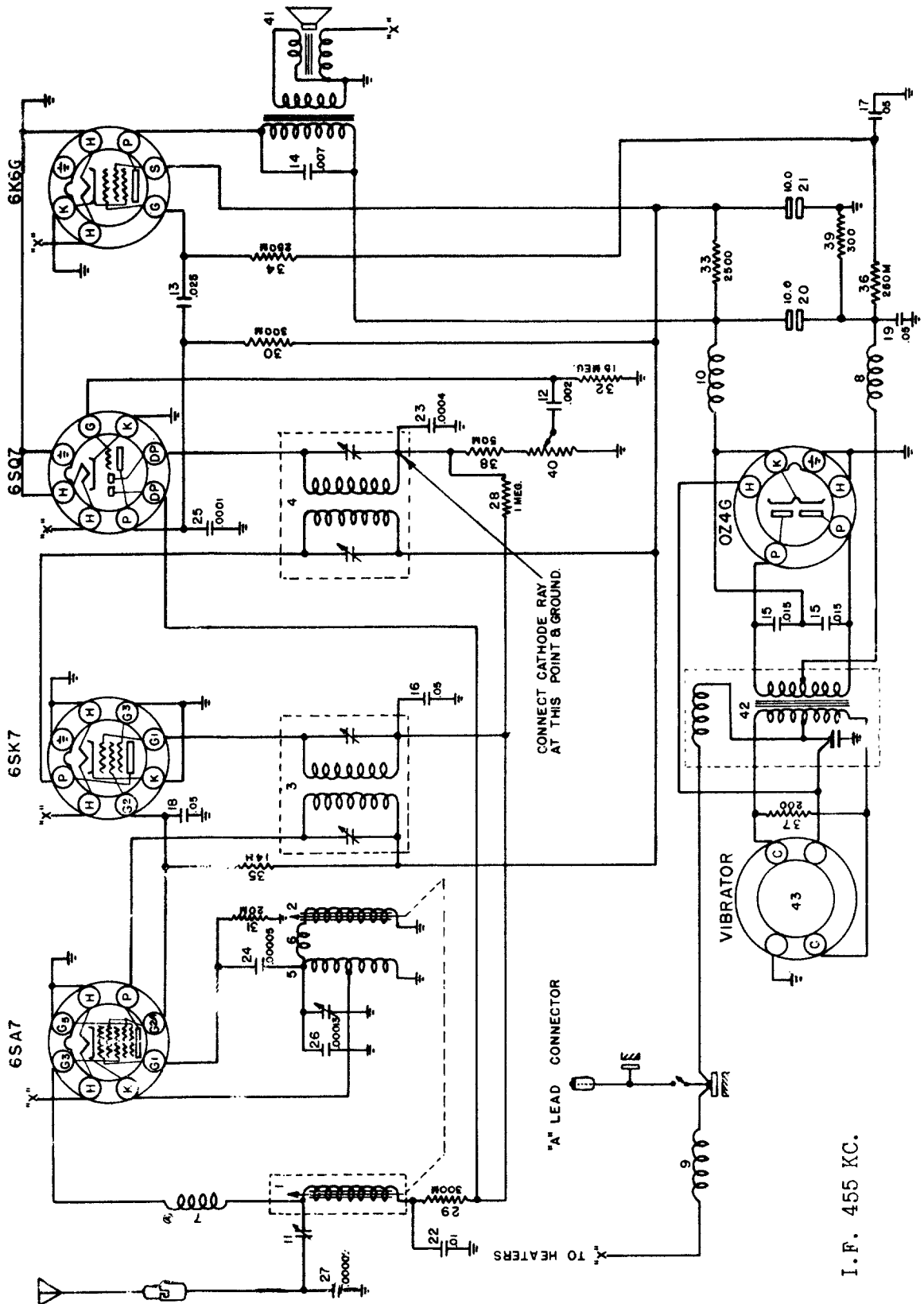
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



DELCO MODEL R-673 CIRCUIT DIAGRAM

I. F. 262.5

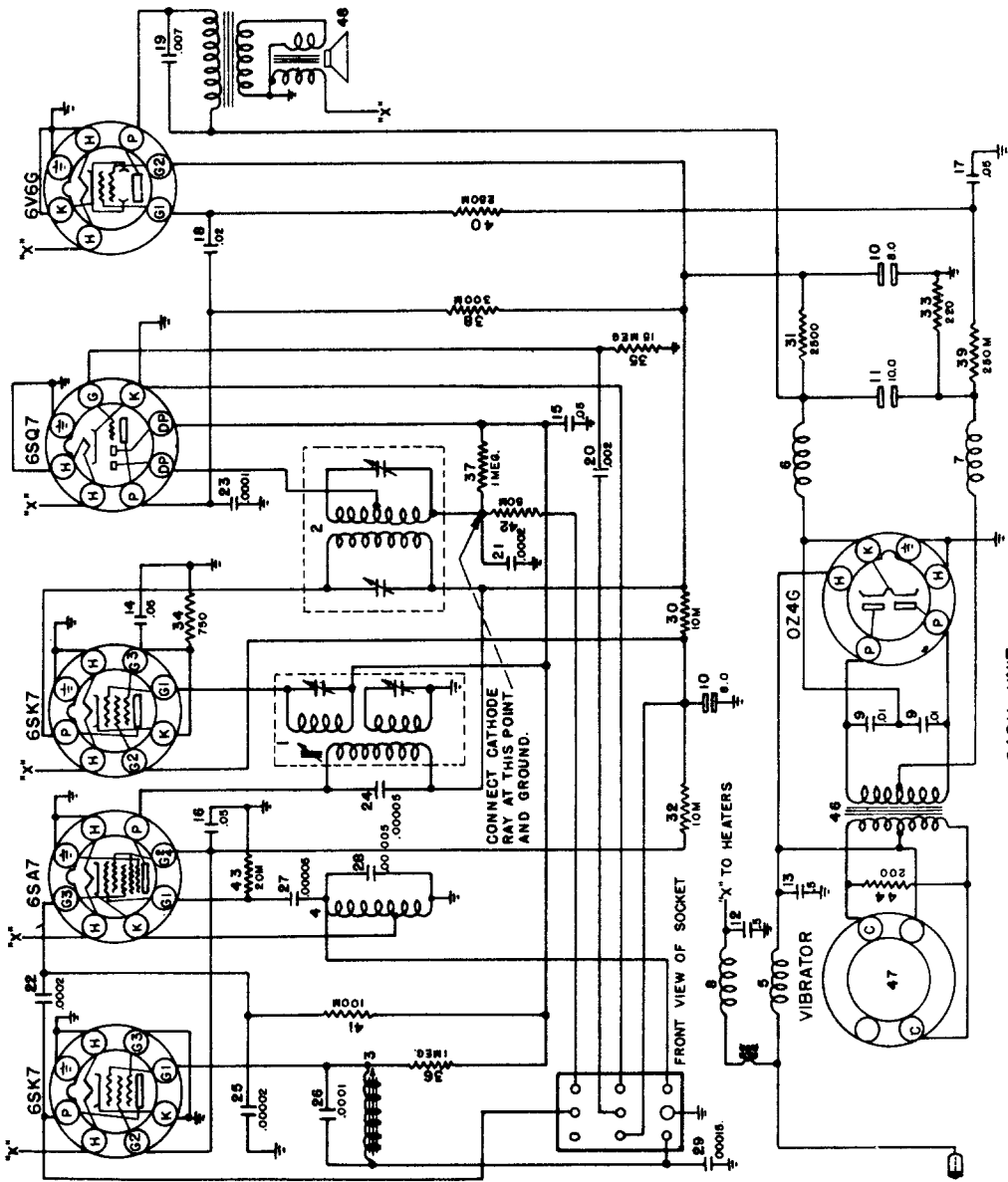
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



DELCO MODEL R-675

I. F. 455 KC.

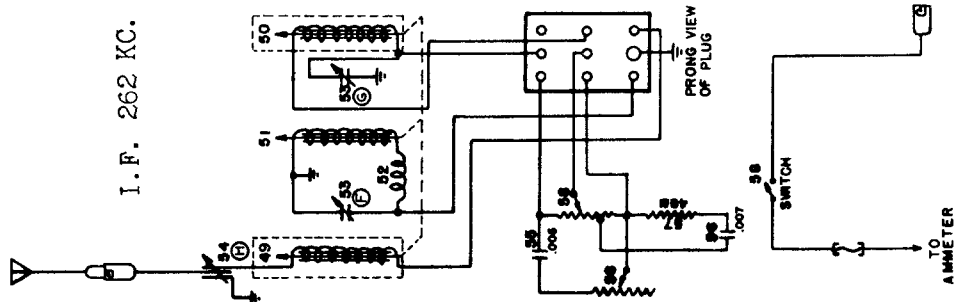
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



DASH UNIT

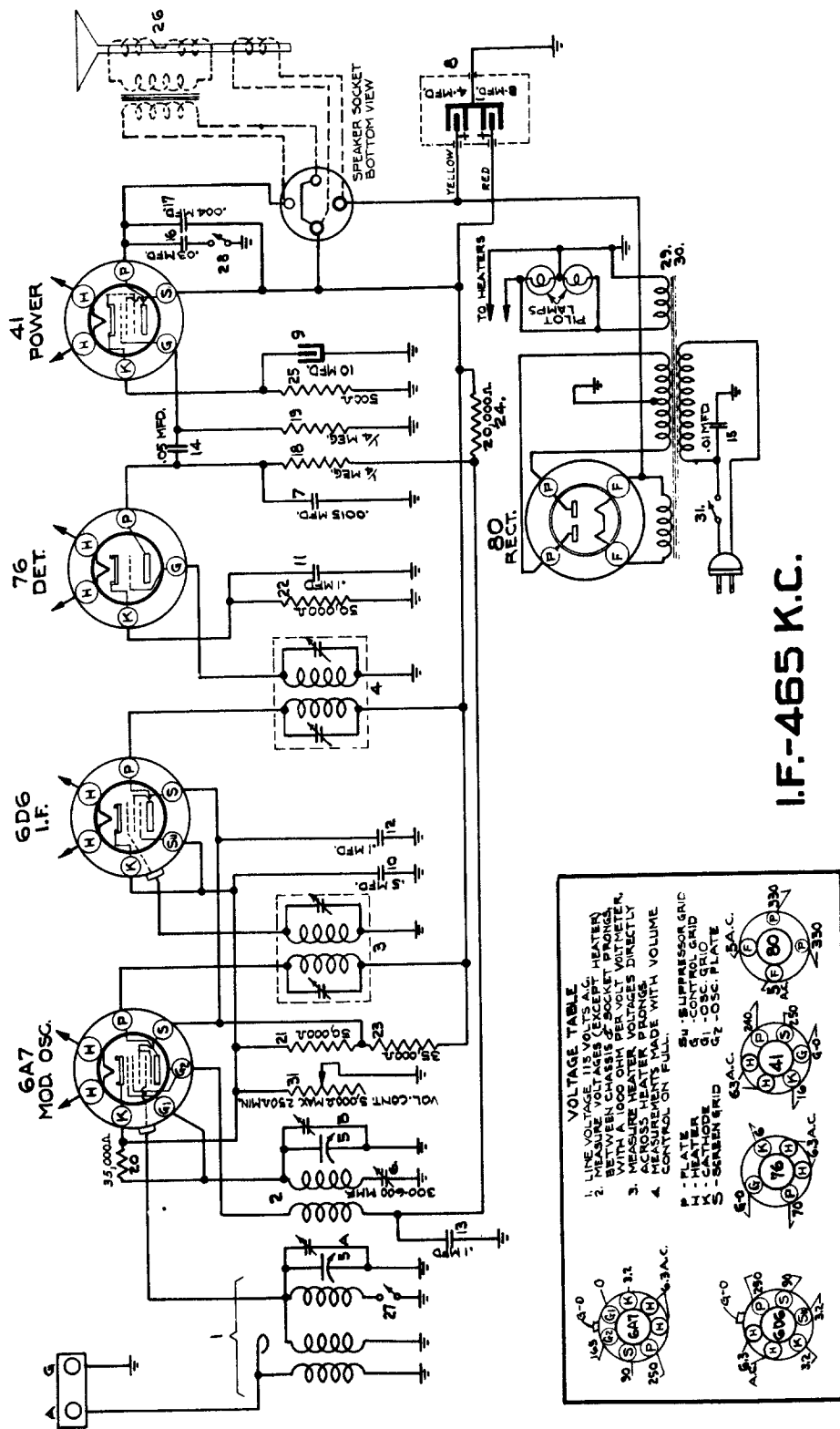
DELCO MODEL R-678 CIRCUIT DIAGRAM

I. F. 262 KC.



INSTRUMENT PANEL UNIT

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



I.F.-465 K.C.

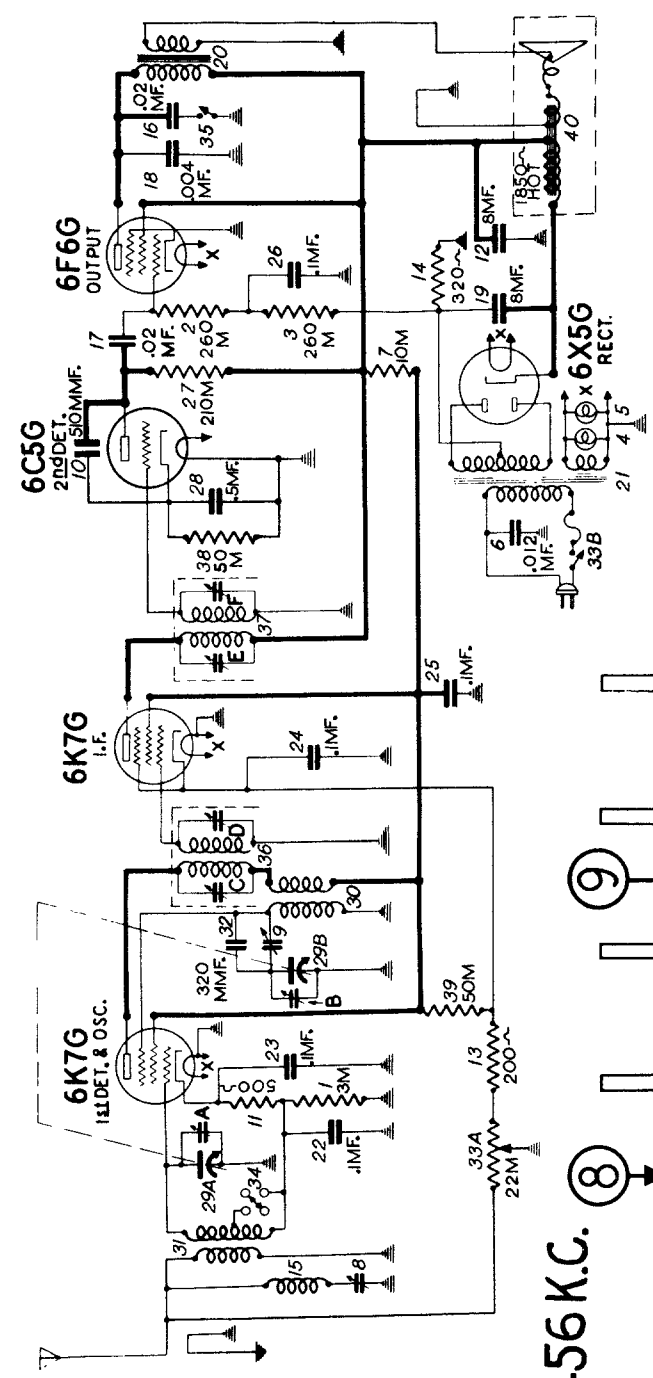
DELCO MODEL R-1115 CIRCUIT DIAGRAM
(Below Serial #100,000)

VOLTAGE TABLE

1. LINE VOLTAGE, 115 VOLTS A.C.
2. MEASURE VOLTAGES (EXCEPT HEATER) BETWEEN CHASSIS AND POINT INDICATED BY NUMBER.
3. MEASURE HEATER VOLTAGES DIRECTLY ACROSS HEATER PRONGS.
4. MEASUREMENTS MADE WITH VOLUME CONTROL ON FULL.

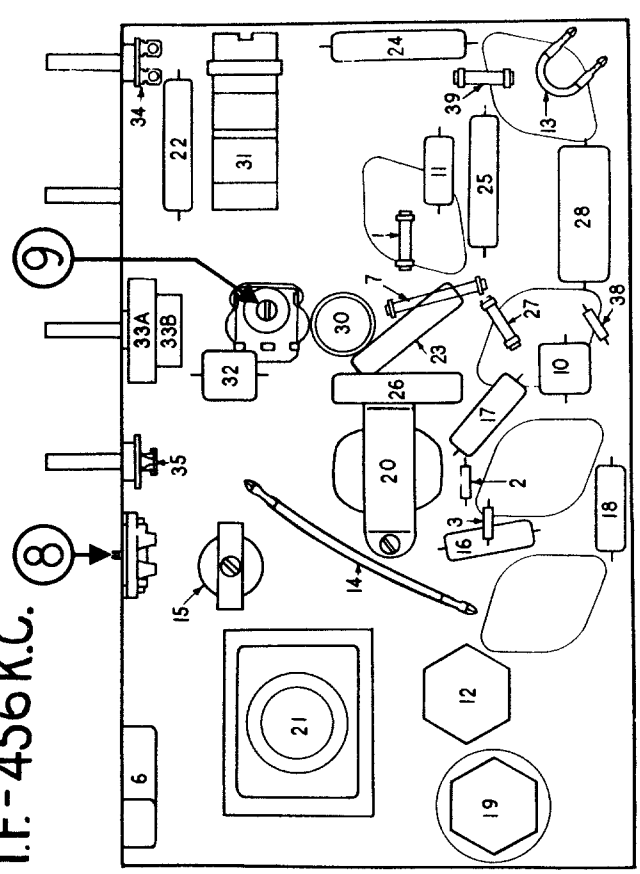
P - PLATE
 K - CATHODE
 S - SCREEN GRID
 5U - SUPPRESSOR GRID
 G1 - OSC. GRID
 G2 - OSC. PLATE

BOTTOM VIEW OF CHASSIS.

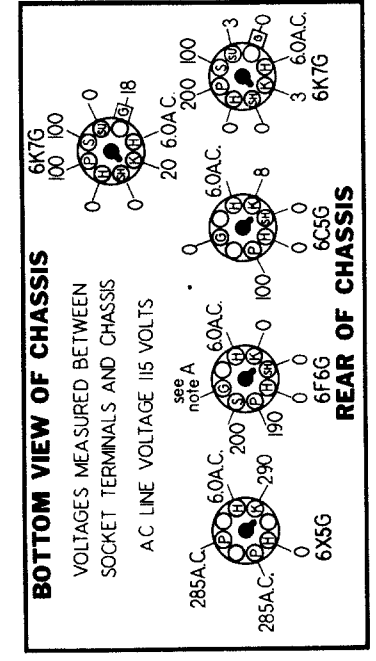


DELCO MODEL R-1115 CIRCUIT DIAGRAM
(Above Serial #100,000)

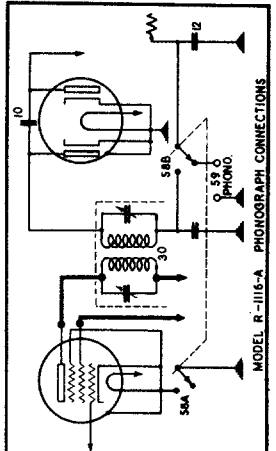
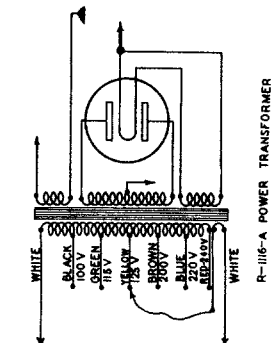
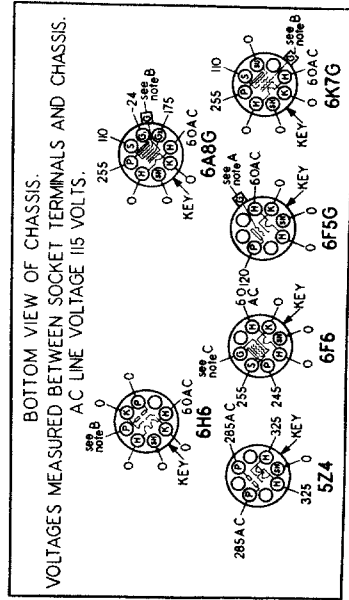
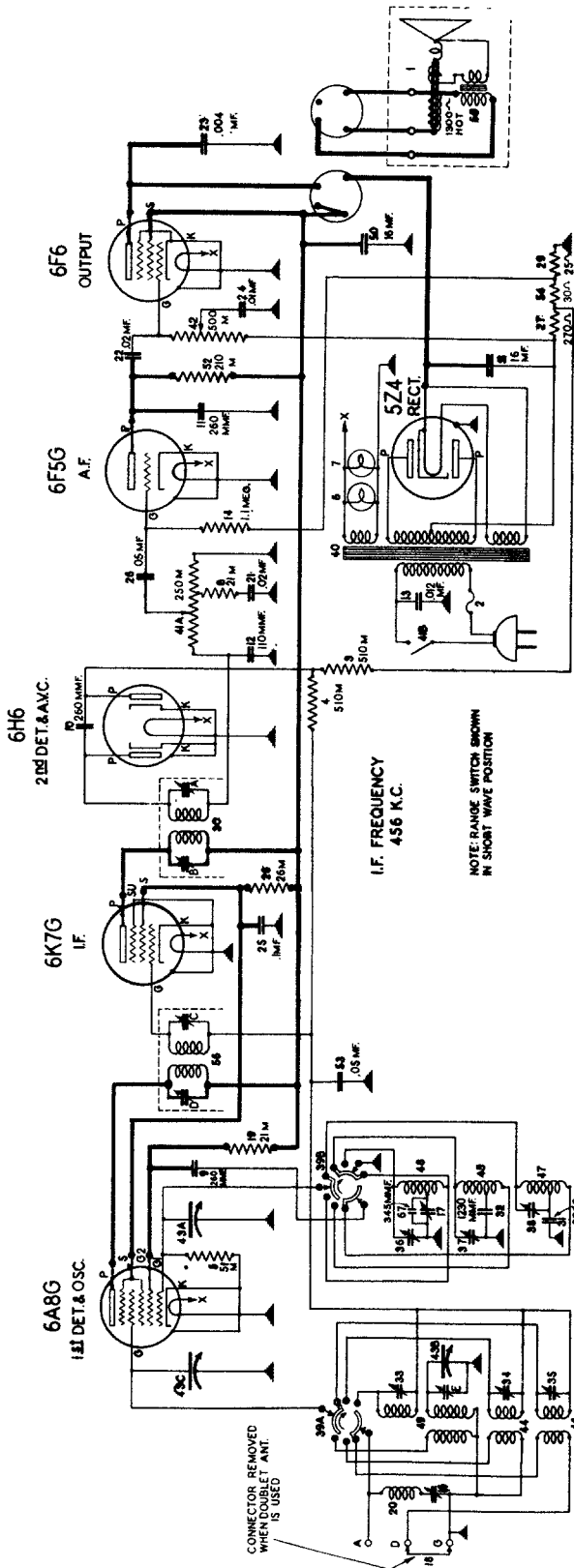
I.F. - 456 K.C.



PARTS LAYOUT--Bottom View



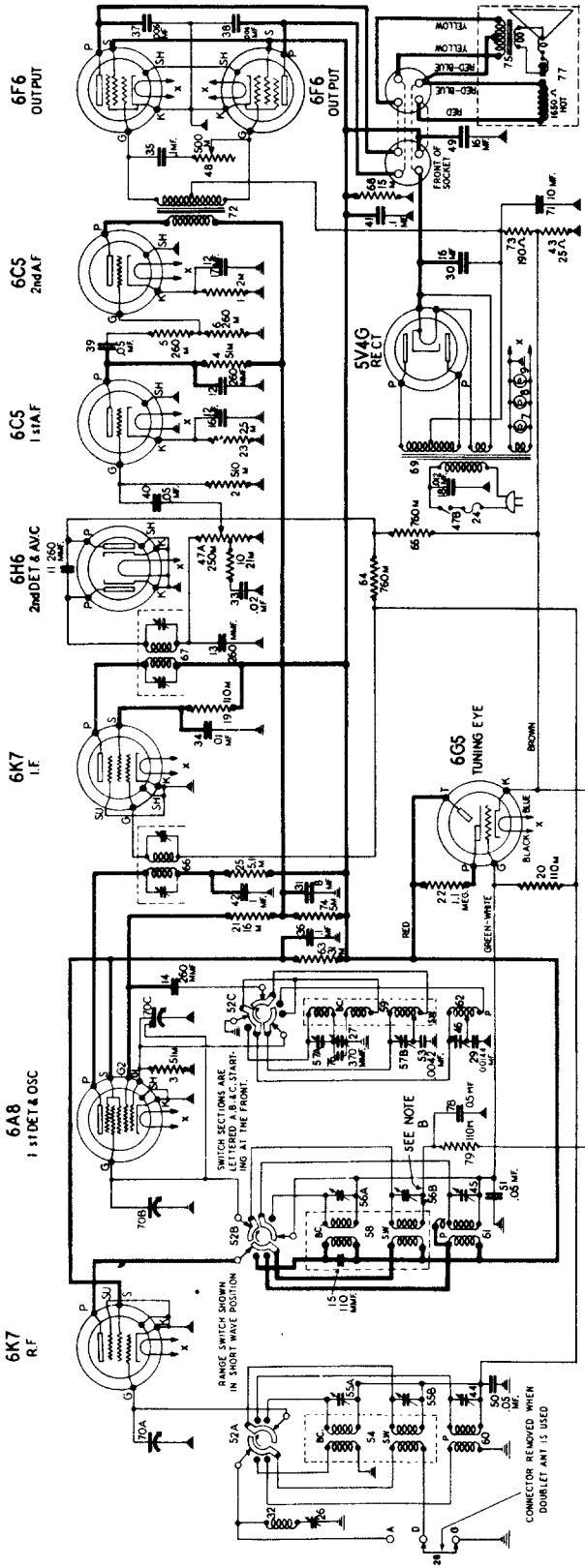
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



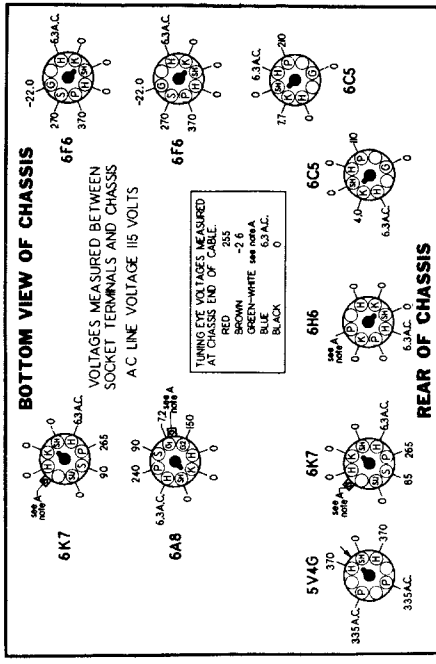
REAR OF CHASSIS

DELCO MODEL R-1116 CIRCUIT DIAGRAM

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



I.F. 456 KC.

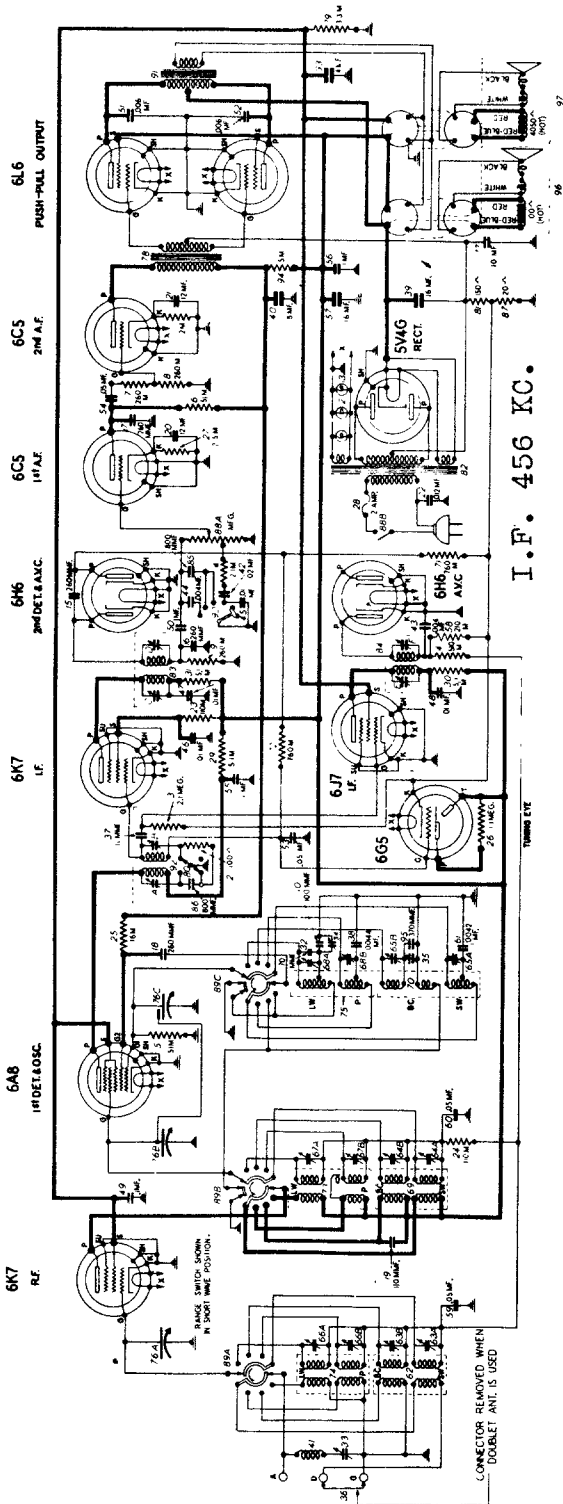


Note A: 2.6 volts measures across resistor #43.

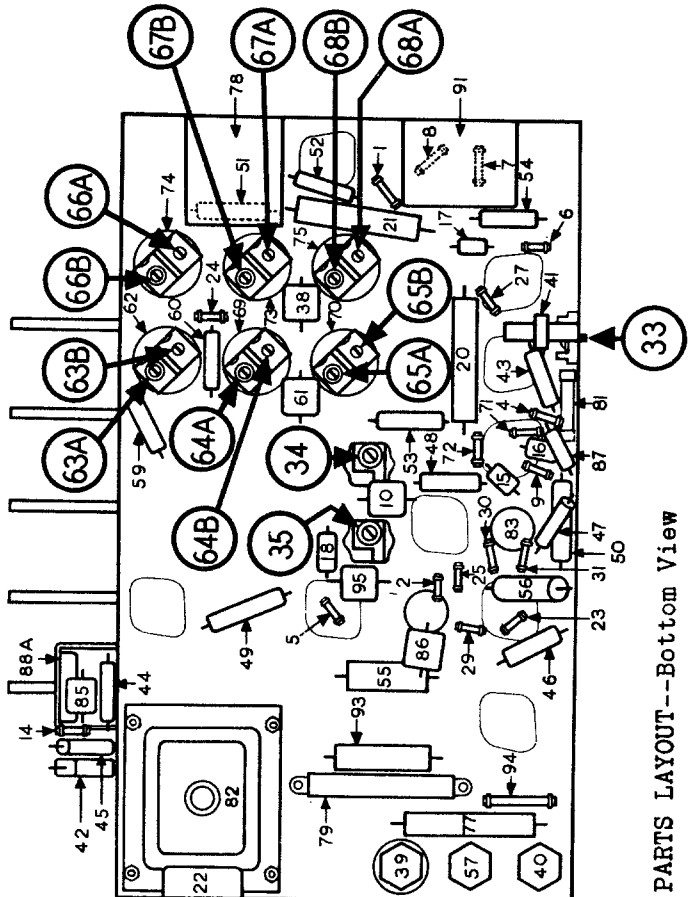
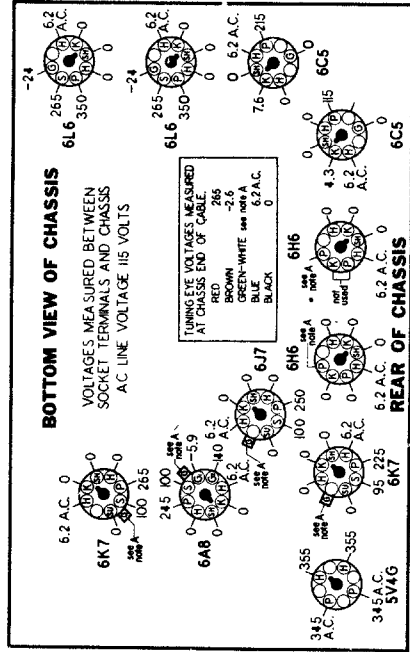
Note B: On sets below serial #415,215, the lead indicated by "Note B" was bypassed directly to ground through the .05 mfd. condenser Illus. #51, and condenser #78 and resistor #79 were not used.

DELCO MODEL R-1118 CIRCUIT DIAGRAM

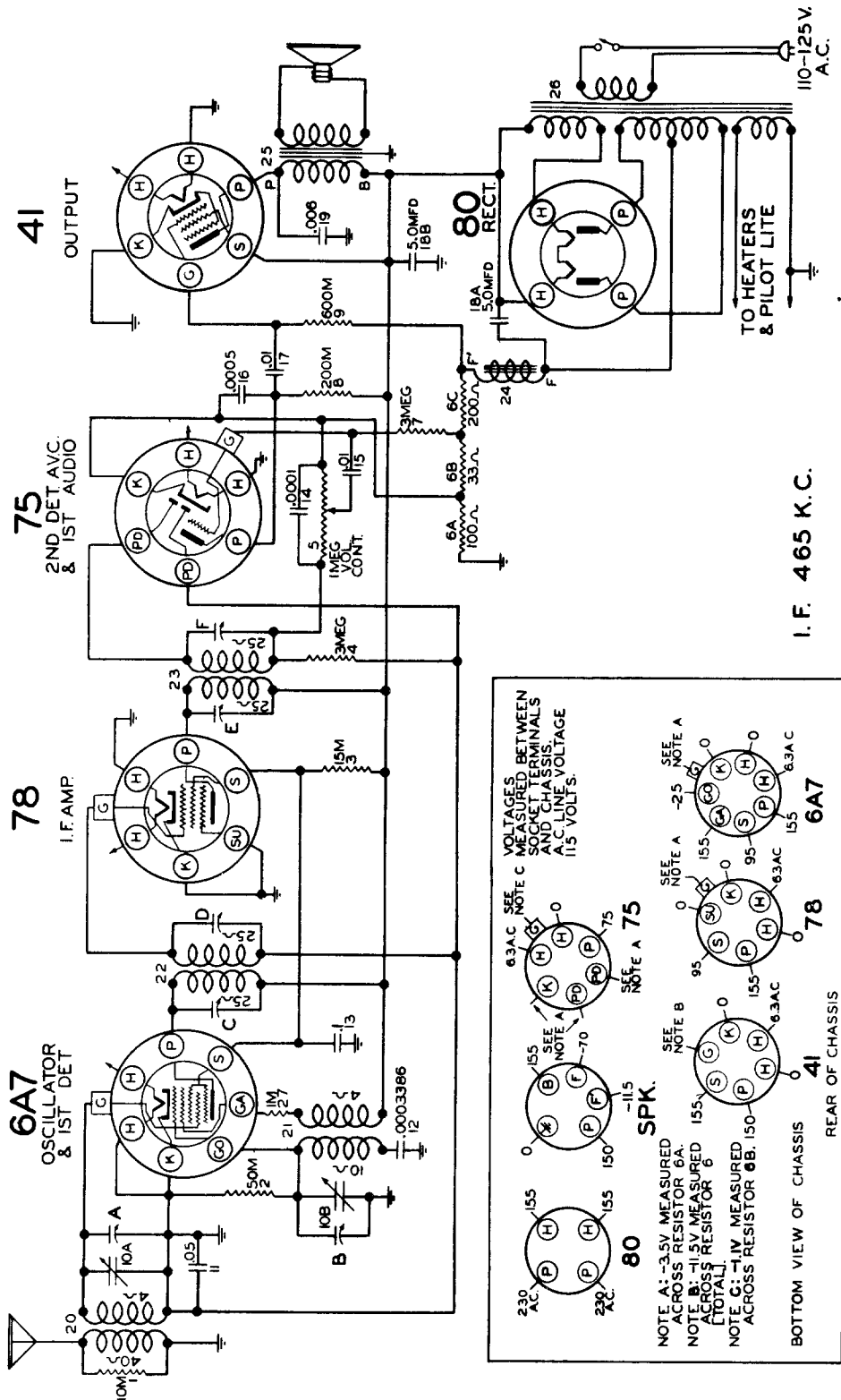
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



DELCO MODEL R-1119 CIRCUIT DIAGRAM

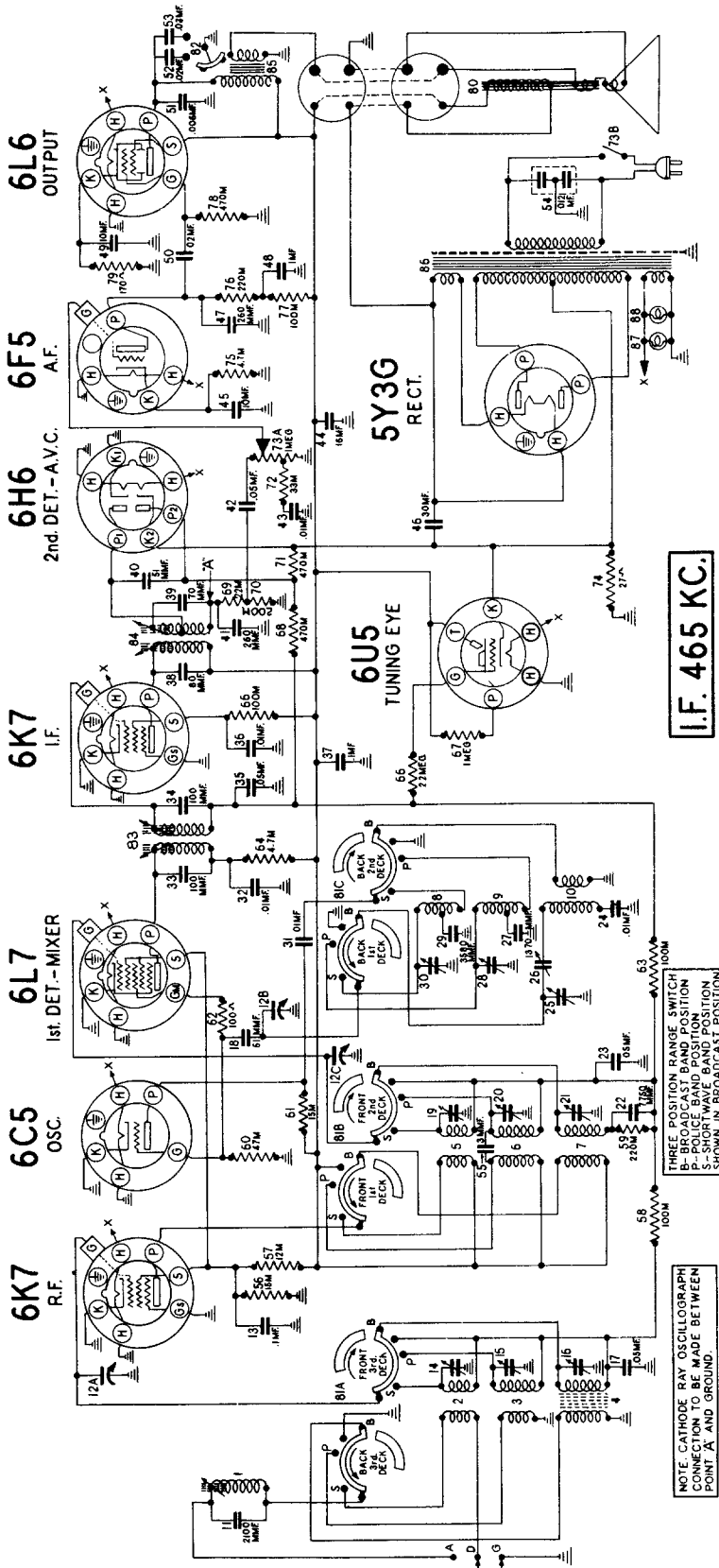


MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



DELCO MODEL R-1125 CIRCUIT DIAGRAM

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

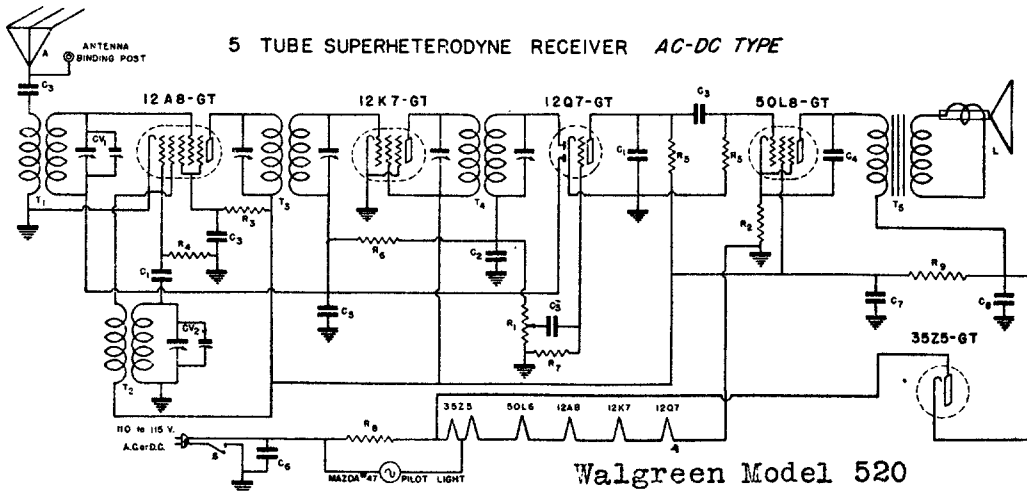


DELCO MODEL R-1131 CIRCUIT DIAGRAM

NOTE: CATHODE RAY OSCILLOGRAM
 MEASUREMENTS MADE BETWEEN
 POINT A AND GROUND.

THREE POSITION RANGE SWITCH
 B-BROADCAST BAND POSITION
 S-SHORT WAVE BAND POSITION
 SHOWN IN BROADCAST POSITION

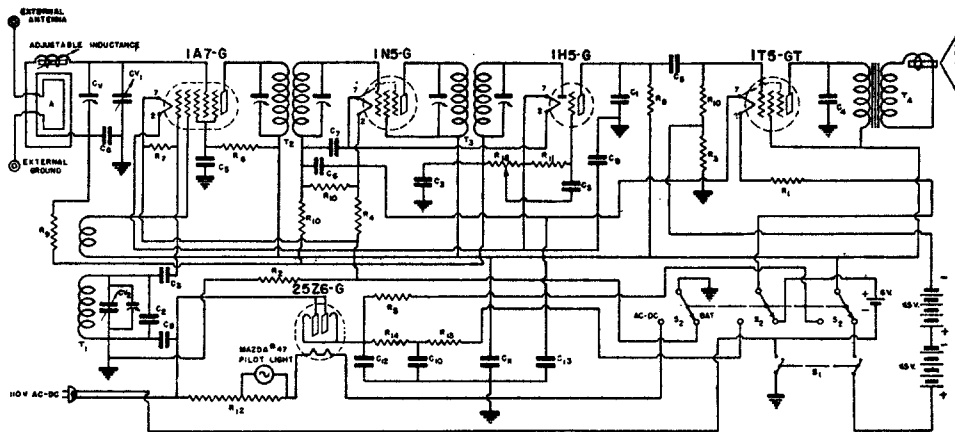
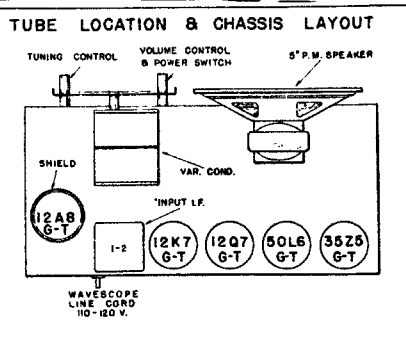
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



Walgreen Model 520

DIA. NO.	PART NO.	DESCRIPTION
C ₁	---	.00025 MFD. 800 V. TUBULAR CONDENSER
C ₂	---	.0005 MFD. 200V. TUBULAR CONDENSER
C ₃	---	.01 MFD. 400 V. TUBULAR CONDENSER
C ₄	---	.02 MFD. 300 V. TUBULAR CONDENSER
C ₅	---	.05 MFD. 200 V. TUBULAR CONDENSER
C ₆	---	1 MFD. 400 V. TUBULAR CONDENSER
C ₇	IN 345	20 MFD. 150 WV. ELECTROLYTIC COND.
C ₈	IN 346	40 MFD. 150 WV. ELECTROLYTIC COND.
CV	1-2	2 BAND VARIABLE CONDENSER
R ₁	---	2500 OHM 1/2 W. CARBON RESISTOR
A	---	WAVESCOPE AERIAL
L	538	P. M. SPEAKER
S	---	LINE SWITCH ON VOLUME CONTROL

DIA. NO.	PART NO.	DESCRIPTION
R ₁	200B7	300,000 OHM VOLUME CONTROL
R ₂	---	150 OHM 1/2 WATT CARBON RESISTOR-10%
R ₃	---	50,000 OHM 1/2 WATT CARBON RESISTOR
R ₄	---	50,000 OHM 1/2 WATT CARBON RESISTOR
R ₅	---	500,000 OHM 1/2 WATT CARBON RESISTOR
R ₆	---	2 MEGOHM 1/2 WATT CARBON RESISTOR
R ₇	---	6 MEGOHM 1/2 WATT CARBON RESISTOR
R ₈	---	10 OHM 1/2 WATT CARBON RESISTOR
T ₁	A-5-A	ANTENNA COIL
T ₂	O-5	OSCILLATOR COIL
T ₃	1-2	INPUT I.F. TRANSFORMER
T ₄	O-2	OUTPUT I.F. TRANSFORMER
T ₅	IN 638	SPEAKER TRANSFORMER

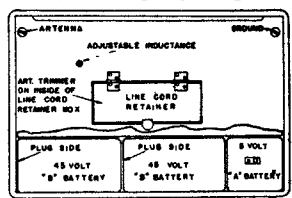


DIA. NO.	PART NO.	DESCRIPTION
C ₁	---	.0005 MICA CONDENSER
C ₂	---	.00025 MFD. 800 V. TUBULAR COND.
C ₃	---	.002 MFD. 400 V. TUBULAR COND.
C ₄	---	.05 MFD. 200 V. TUBULAR COND.
C ₅	---	.1 MFD. 400 V. TUBULAR COND.
C ₆	---	.1 MFD. 300 V. TUBULAR COND.
C ₇	---	.1 MFD. 200 V. TUBULAR COND.
C ₈	---	.1 MFD. 400 V. TUBULAR COND.
C ₉	---	.25 MFD. 25 V. TUBULAR COND.
C ₁₀	345	10 MFD. 15 V. ELECTROLYTIC COND.
C ₁₁	345	20 - 100 V. - - -
C ₁₂	345	45 - 150 V. - - -
C ₁₃	345	70 - 6 V. - - -

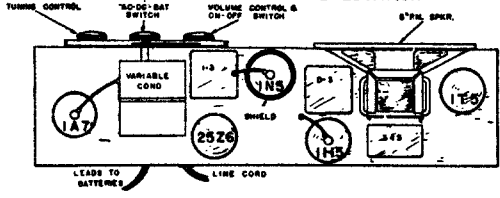
DIA. NO.	PART NO.	DESCRIPTION
CV	518	3 TO 40 MFD. TRIMMER CONDENSER
CV1	848-B	2 BAND VARIABLE CONDENSER
A	3830-A	LOOP ANTENNA
T ₁	O-5	OSCILLATOR COIL
T ₂	1-3	IN PUT I.F. TRANSFORMER
T ₃	O-3	OUTPUT I.F. TRANSFORMER
T ₄	538-R	P. M. SPEAKER
R ₁	---	10 OHM 1/4 W. CARBON RESIST. 10%
R ₂	---	30 OHM 1/4 W. CARBON RESISTOR
R ₃	---	100 OHM 1/4 W. CARBON RESISTOR
R ₄	---	100 OHM 1/4 W. CARBON RESISTOR
R ₅	---	SWITCH SW. VOLUME CONTROL
R ₆	1043	3 POLE TWO POSITION SWITCH

DIA. NO.	PART NO.	DESCRIPTION
R ₇	---	3000 OHM 1/4 W. CARBON RESISTOR
R ₈	---	30,000 OHM 1/2 W. CARBON RESISTOR
R ₉	---	100,000 OHM 1/4 W. CARBON RESISTOR
R ₁₀	---	2 MEGOHM 1/4 W. CARBON RESISTOR
R ₁₁	---	1 MEGOHM 1/4 W. CARBON RESISTOR
R ₁₂	---	3 MEGOHM 1/4 W. CARBON RESISTOR
R ₁₃	---	3 MEGOHM 1/4 W. CARBON RESISTOR
R ₁₄	---	1818 RESISTANCE LINE. COND.
R ₁₅	IN-123	400 OHM 1 WATT WIRE WOUND RESIST.
R ₁₆	IN-123	2500 OHM 1/2 WATT WIRE WOUND RESIST.
R ₁₇	2038-B	VOLUME CONTROL

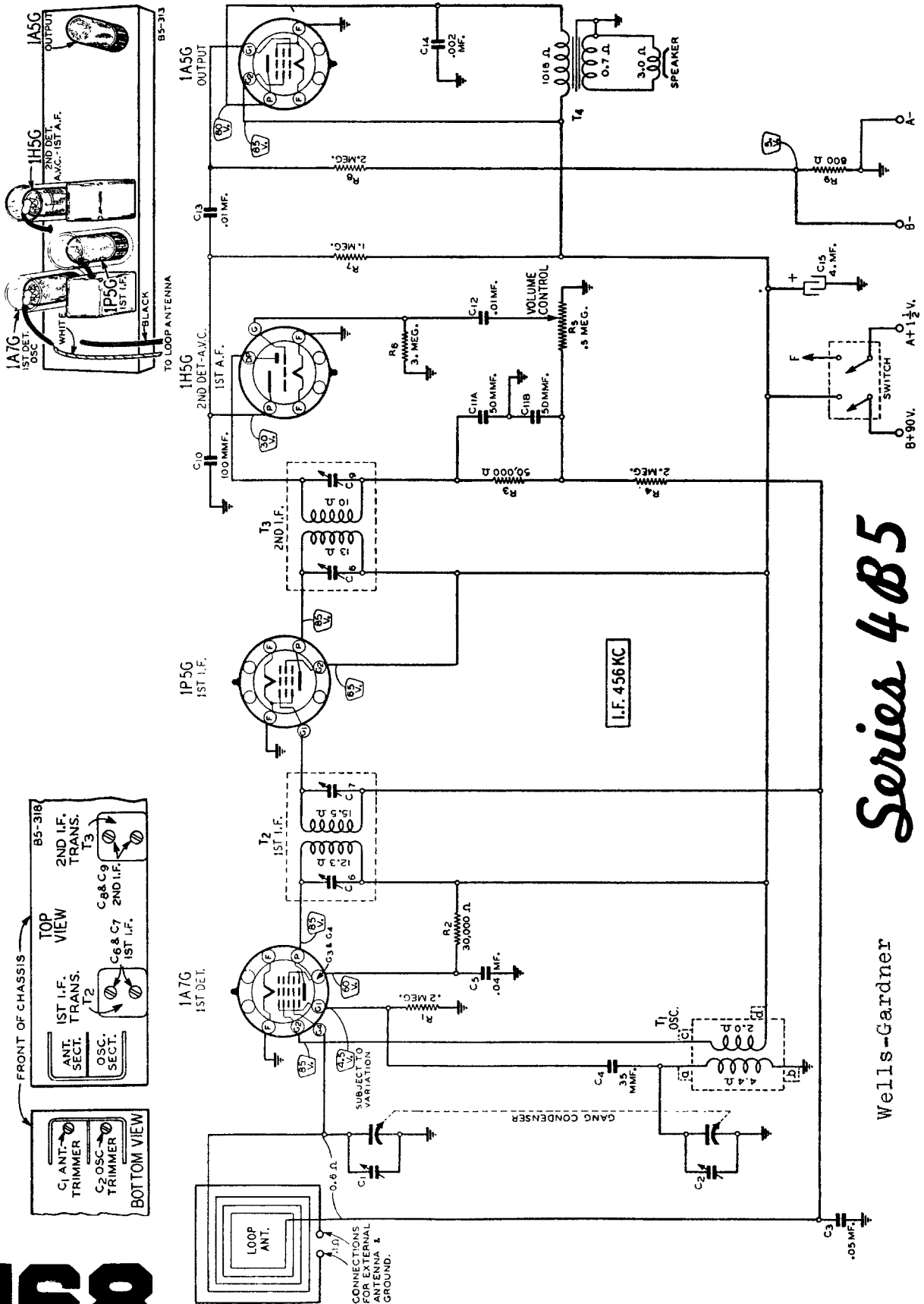
BACK VIEW OF CABINET



CHASSIS LAYOUT & TUBE LOCATION



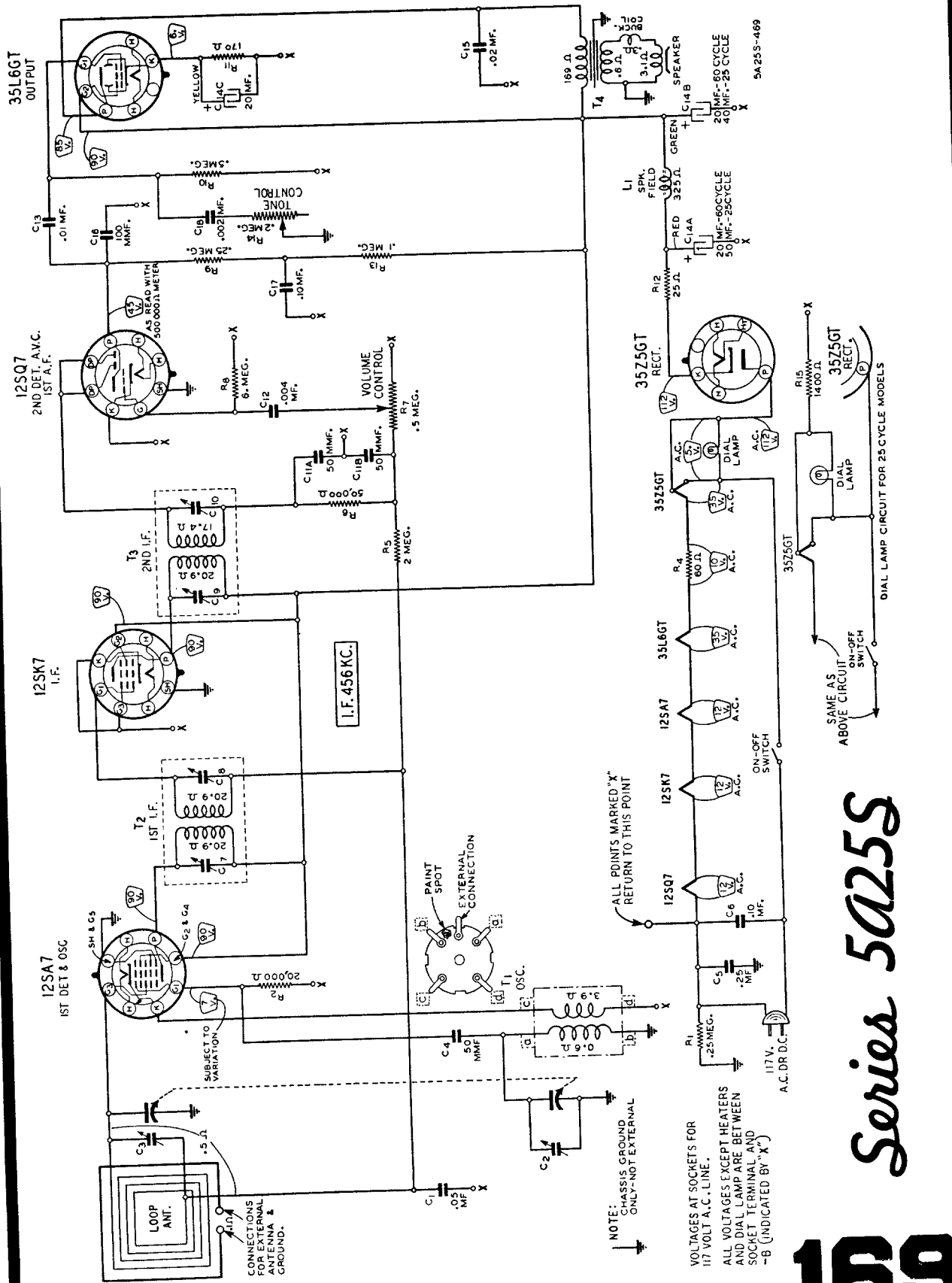
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



Series 4B5

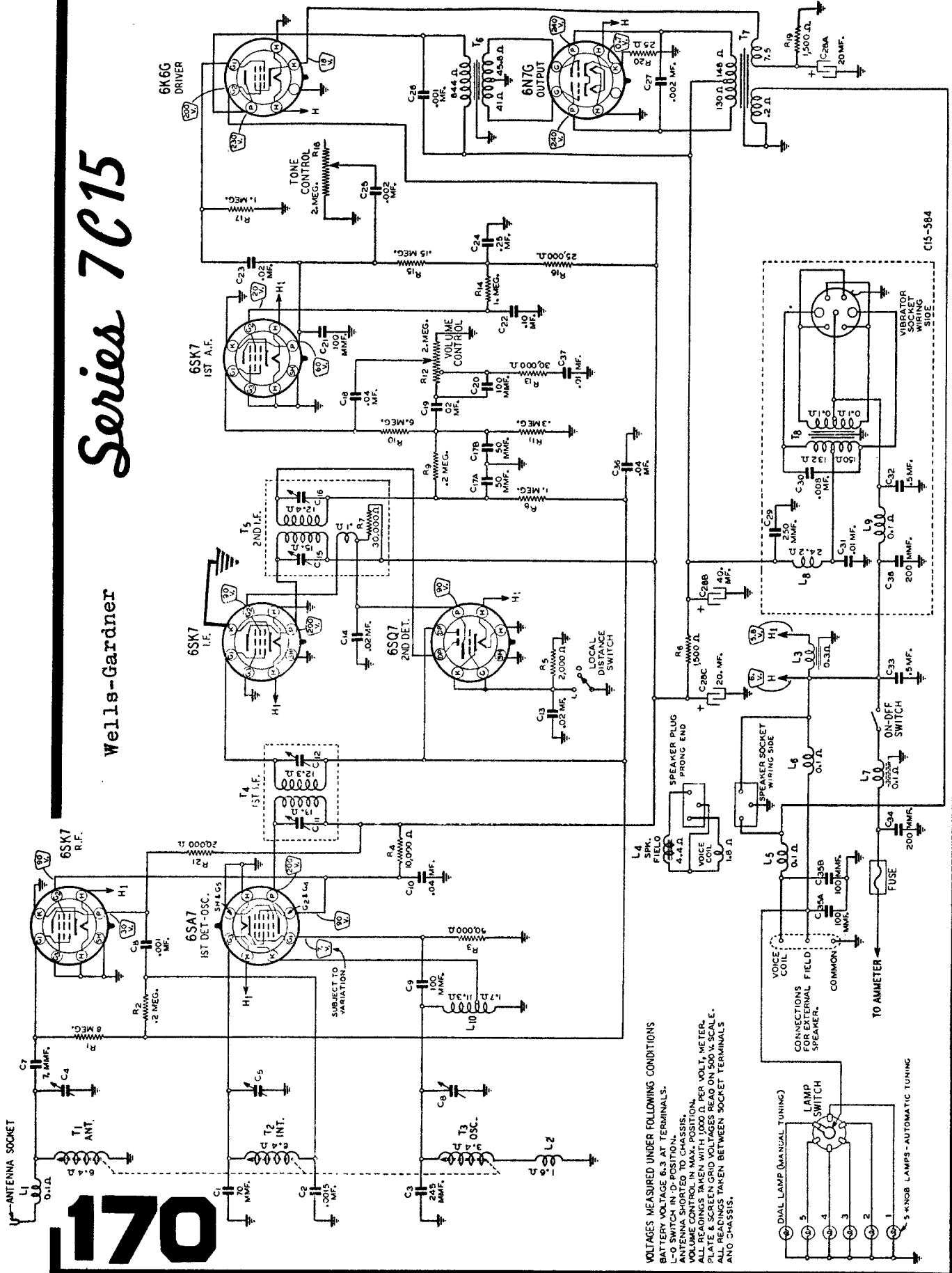
Wells-Gardner

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



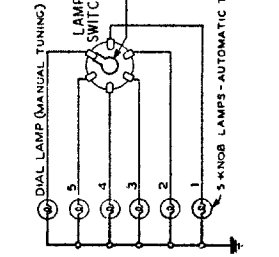
Series 7C15

Wells-Gardner



C15-584

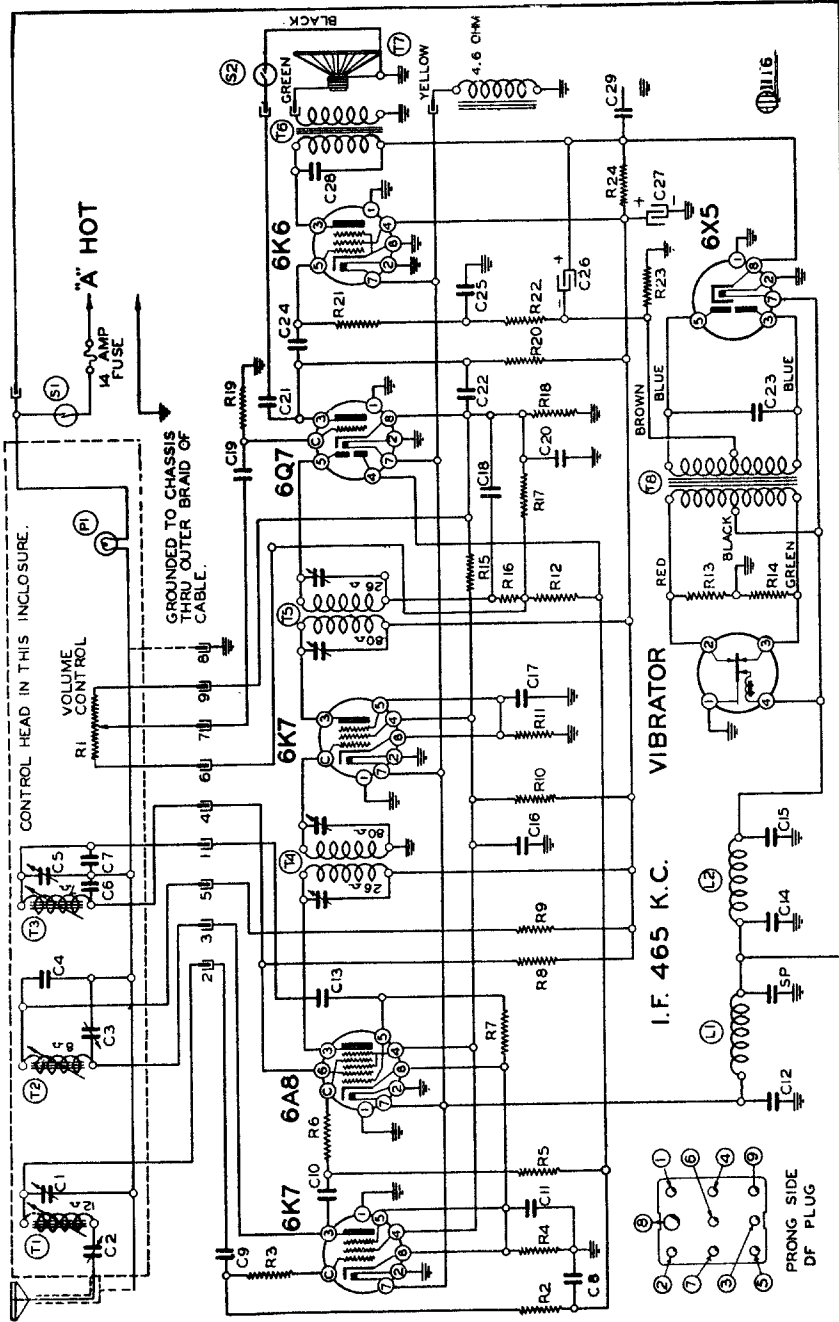
VOLTAGES MEASURED UNDER FOLLOWING CONDITIONS
 BATTERY VOLTAGE 6.3 AT TERMINALS.
 LAMP SWITCH OPEN.
 LAMP SHORTED TO CHASSIS.
 VOLUME CONTROL IN MAX. POSITION.
 ALL READINGS TAKEN WITH 1,000 Ω. PER VOLT. METER.
 PLATE & SCREEN GRID VOLTAGES READ ON 500 V. SCALE.
 ALL READINGS TAKEN BETWEEN SOCKET TERMINALS
 AND CHASSIS.



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MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

TRUETONE MODEL D976



WHEEL STATIC:

Wheel or brake noise is probably the most peculiar type of interference and is due to accumulated static charges. This type of interference is only noticeable while the car is in motion and could very easily be confused with ignition interference. Check for this with car running at a good speed, turn the ignition switch off and the clutch disengaged, apply the brakes. If the noise stops, the source of the static is in the wheels. To overcome the wheel static condition, use graphite grease in the wheel bearings or insert grounding springs in the hub caps. In the case of external brakes, it may be necessary to ground the brake bands to the frame of the car.

Circuit Diagram Reference No. Part No.

Reference No.	Part No.	Description
RESISTORS		
R1	101161	1.2 megohm volume control
R2	13019	1 megohm— $\frac{1}{2}$ w.
R3	13054	500 ohm— $\frac{1}{2}$ w.
R4	13079	400 ohm— $\frac{1}{2}$ w.
R5	13019	1 megohm— $\frac{1}{2}$ w.
R6	13054	500 ohm— $\frac{1}{2}$ w.
R7	13012	50M ohm— $\frac{1}{2}$ w.
R8	13012	50M ohm— $\frac{1}{2}$ w.
R9	13021	20M ohm— $\frac{1}{2}$ w.
R10	13065	30M ohm— $\frac{1}{2}$ watt
R11	130235	1500 ohm— $\frac{1}{2}$ w.
R12	13019	1 megohm— $\frac{1}{2}$ w.
R13	13056	100 ohm— $\frac{1}{2}$ w.
R14	13056	100 ohm— $\frac{1}{2}$ w.
R15	130208	40M ohm— $\frac{1}{2}$ w.
R16	13020	100M ohm— $\frac{1}{2}$ w.
R17	130118	600M ohm— $\frac{1}{4}$ w.
R18	130101	600 ohm— $\frac{1}{2}$ w.
R19	13019	1 megohm— $\frac{1}{2}$ w.
R20	13011	250M ohm— $\frac{1}{2}$ w.
R21	1305	300M ohm— $\frac{1}{2}$ w.
R22	13011	250 ohm— $\frac{1}{2}$ w.
R23	130274	360 ohm—1 watt
R24	130273	900 ohm—1 watt

CONDENSERS

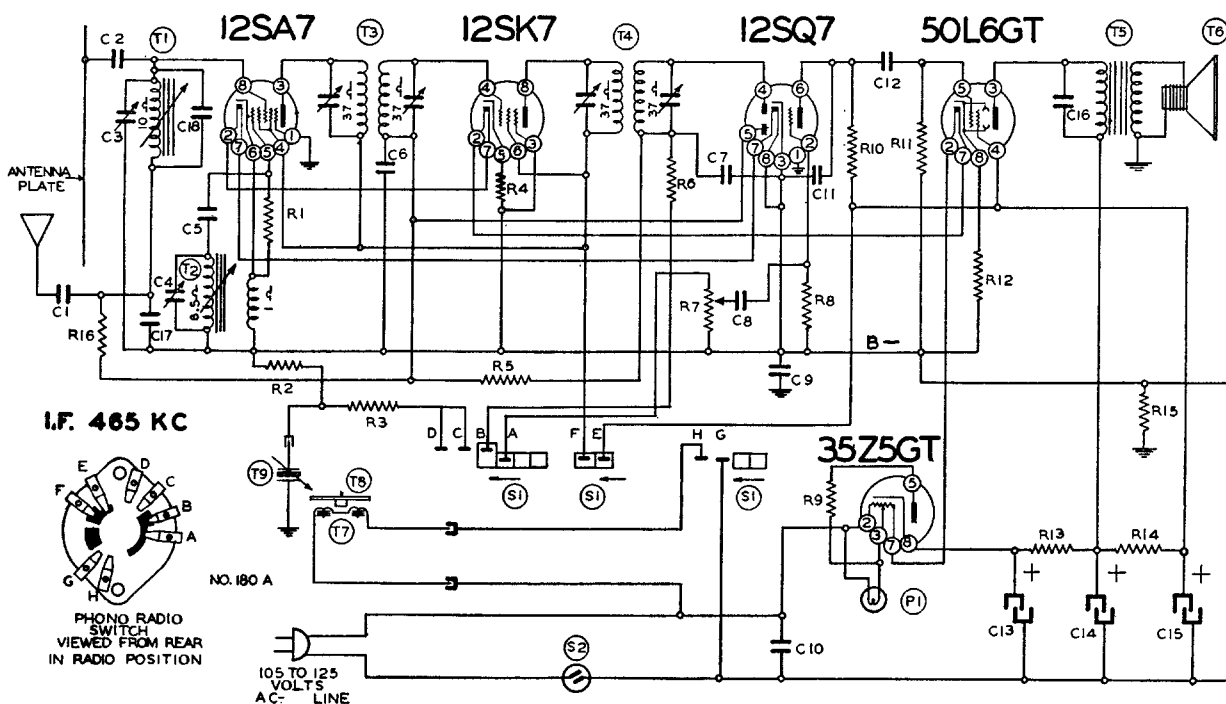
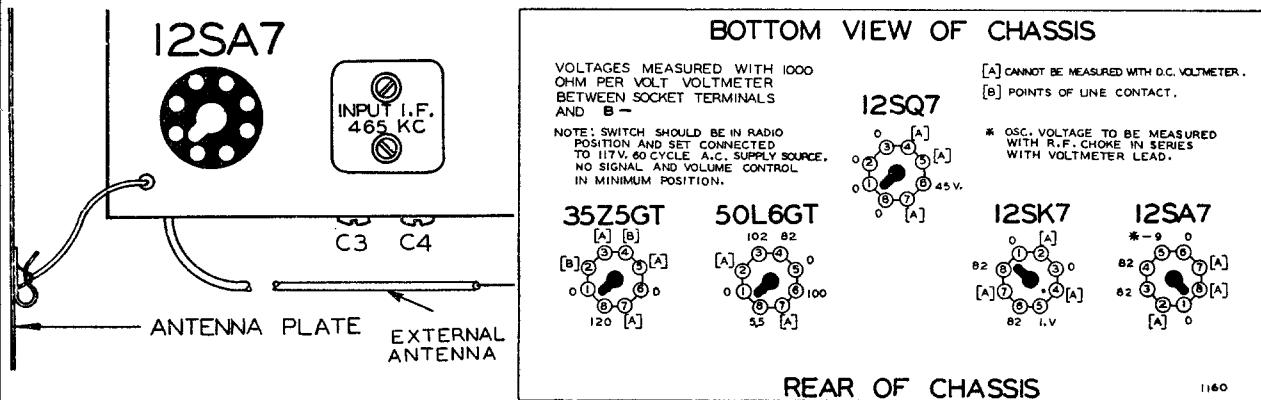
C1	12483	Antenna Shunt Trimmer
C2	12480	Antenna Series Trimmer
C3	100102	R. F. Shunt Trimmer
C4	12480	.15 x 400 v.
C5	129137	Oscillator Shunt Trimmer
C6	129136	.0005 Mica
C7	10022	.00017 Mica
C8	12939	.05 x 200 v.
C9	1292	.00005 Mica
C10	10022	.0005 Mica
C11	1296	.05 x 200 v.
C12	1296	.002 Mica
C13	12912	.00025 Mica
C14	10031	.5 x 120 v.
C15	10031	.5 x 120 v.
C16	11626	.25 x 400 v.
C17	1009	.05 x 200 v.
C18	1295	.0001 Mica
C19	10011	.01 x 400 v.
C20	10026	.02 x 400 v.
C21	10037	.003 x 600 v.
C22	1295	.0001 Mica
C23	100100	.008 x 1600 v.
C24	10011	.01 x 400 v.
C25	11626	.25 x 200 v.
C26	11981	16 mfd.
C27	11981B	16 mfd.
C28	10089	.008 x 800 v.
C29	10074	.1 x 400 v.

PARTS

T1	111118	P. B. Antenna Coil Assembly
T2	10949	P. B. R. F. Coil Assembly
T3	110109	P. B. Oscillator Coil Assembly
T4	108137	Input I. F.—465 kc.
T5	108138	Output I. F.—465 kc.
T6	10586	Output Transformer
T7	114154	6" Dynamic Speaker
T8	104159	Power Transformer
L1	10566	"A" Choke
L2	10519	"A" Choke
S1	101161	Switch on Volume Control
S2	12574	Tone Control Switch
P1	10797	6-8 v. Pilot Lite - T51
	12610	Vibrator

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

TRUETONE MODEL D1070



Circuit Diagram
Ref. No. Part No. Description

RESISTORS

R1	130176	20M ohm— $\frac{1}{2}$ w.
R2	130118	600M ohm— $\frac{1}{2}$ w.
R3	130118	600M ohm— $\frac{1}{2}$ w.
R4	13056	100 ohm— $\frac{1}{2}$ w.
R5	130170	3 megohm— $\frac{1}{2}$ w.
R6	13012	50M ohm— $\frac{1}{2}$ w.
R7	101217	$\frac{1}{2}$ megohm—volume control
R8	130257	5 megohm— $\frac{1}{2}$ w.
R9	130215	25 ohm— $\frac{1}{2}$ w.
R10	1309	200M ohm— $\frac{1}{2}$ w.
R11	13037	750M ohm— $\frac{1}{2}$ w.
R12	130166	150 ohm— $\frac{1}{2}$ w.
R13	13097	200 ohm— $\frac{1}{2}$ w.
R14	130287	1200 ohm—1 watt
R15	1309	200M ohm— $\frac{1}{2}$ w.
R16	1309	200M— $\frac{1}{2}$ w.

CONDENSERS

C1	1295	.0001 Mica Condenser
C2	129114	.0003 mfd. mica
C3	124136	Antenna Trimmer
C4	124136	Oscillator Trimmer
C5	1295	.0001 mica
C6	1009	.05 x 200 v.
C7	1295	.0001 mica

C8	10025	.002 x 600 v.
C9	100119	.1 x 400 v.
C10	1001	.1 x 400 v.
C11	12912	.00025 mica
C12	10019	.006 x 600 v.
C13	11994	40 mfd. lytic—150 w. v.
C14	11994	20 mfd. lytic—150 w. v.
C15	11994	20 mfd. lytic—150 w. v.
C16	10011	.01 x 400 v.
C17	129162	.0008 Mica Condenser
C18	129163	.000025 Ceramicon Condenser

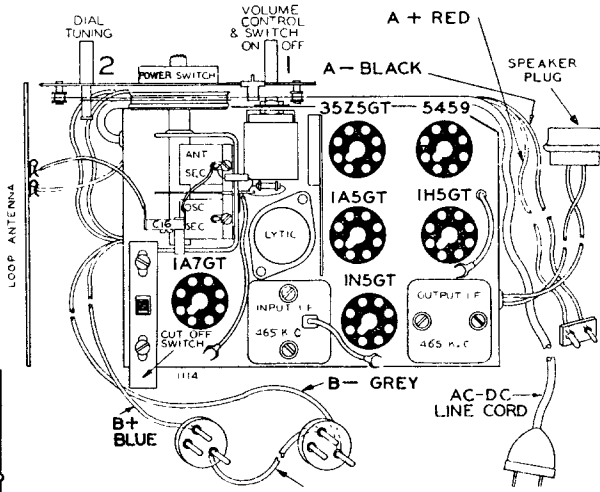
C3 and C4 in same unit
C13, C14 and C15 are in same unit

PARTS

T1	112767	Antenna Coil—Permeability tuning assembly complete
T2	112767	Oscillator Coil
T3	108140F	Input I. F. Coil—465 kc.
T4	108145D	Output I. F. Coil—465 kc.
T5	105108	Output Transformer
T6	114193	5" P.M. Speaker
T7	104206	Phono Motor
T8	12228	Turntable
T9	114194	Phono pick up arm
S1	125113	Phono Switch
S2		Switch on volume control
P1	107249	Pilot light T47 T1 and T2 in same unit

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

Western Auto
Truetone Model
D-1080



RESISTORS

R1	13038	2 megohm— $\frac{1}{2}$ w.
R2	130266	200M ohm— $\frac{1}{2}$ w.
R3	13018	4M ohm— $\frac{1}{2}$ w.
R4	130208	40M ohm— $\frac{1}{2}$ w.
R5	130215	25 ohm— $\frac{1}{2}$ w.
R6	130170	3 megohm— $\frac{1}{2}$ w.
R7	130129	2500 ohm— $\frac{1}{2}$ w.
R8	101210	1 megohm volume control
R9	130257	5 megohm— $\frac{1}{2}$ w.
R10	1303	500M ohm— $\frac{1}{2}$ w.
R11	13038	2 megohm— $\frac{1}{2}$ w.
R12	13792	1M ohm— $\frac{1}{2}$ w.
R13	130100	150M Ohm— $\frac{1}{2}$ w.

CONDENSERS

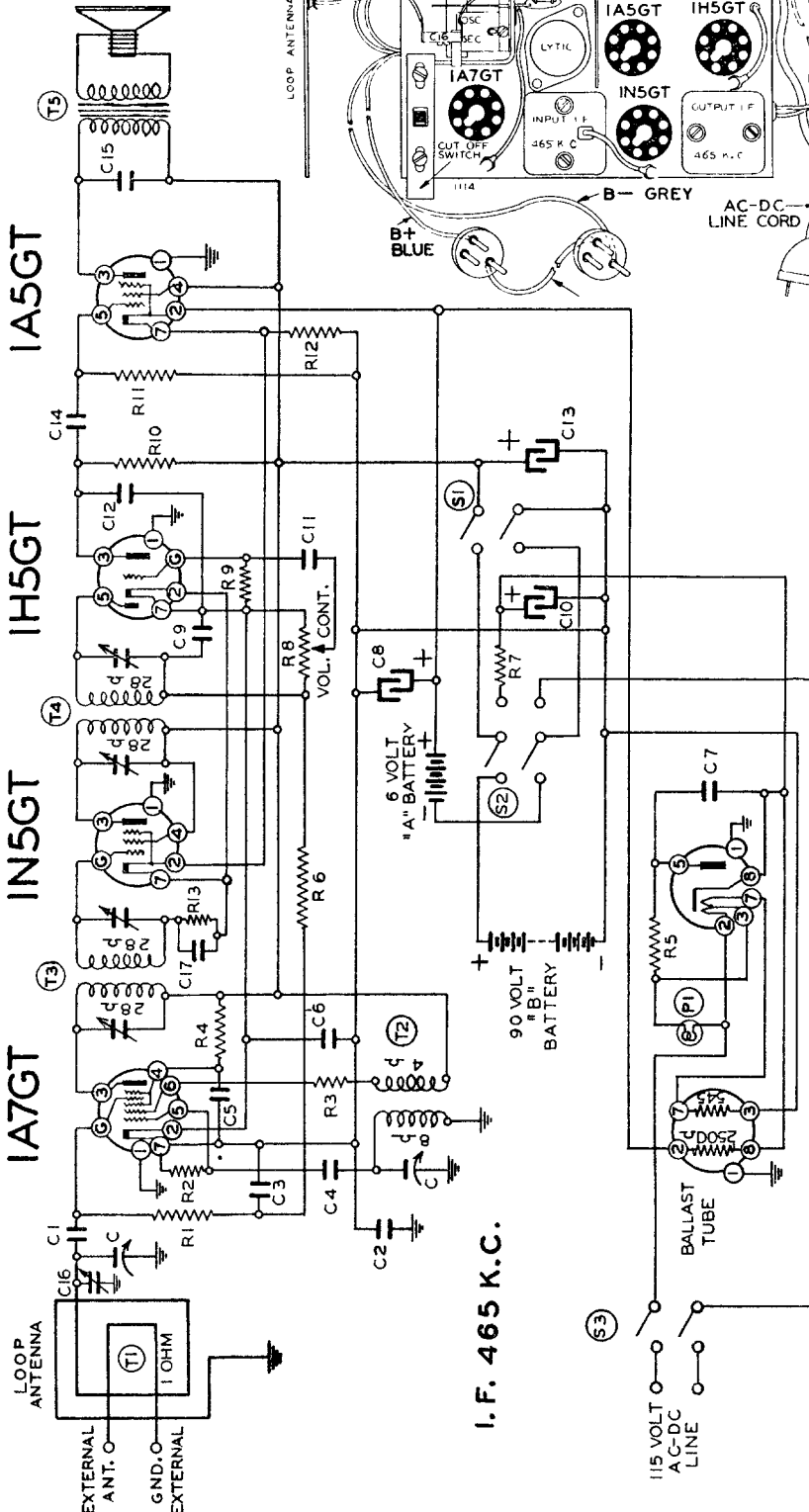
C	102125	2 gang variable condenser
C1	12912	.00025
C2	100110	.2 mfd. x 400 v.
C3	1009	.05 x 200 v.
C4	12912	.00025
C5	1009	.05 x 200 v.

C6	10020	.1 x 200 v.
C7	10011	.01 x 400 v.
C8	119104	Lytic 200 mfd. x 6 w. v.
C9	1295	.0001 mfd.
C10	119104	Lytic 40 mfd. x 150 w. v.
C11	10025	.002 x 600 v.
C12	1292	.0005 mfd.
C13	119104	Lytic 20 mfd. x 150 w. v.
C14	10011	.01 x 400 v.
C15	10025	.002 x 600 v.
C16	124116	Adjustable antenna trimmer
C17	10026	.02 x 400 v.

C8, C10 and C13 in same unit

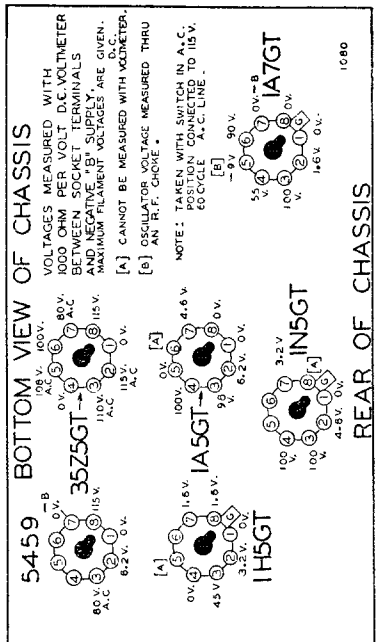
PARTS

T1	111171	Loop Antenna
T2	110144	Oscillator Coil
T3	108171B	Input I. F. Coil—465 kc.
T4	108172	Output I. F. Coil—465 kc.
T5	114189	Speaker with output transf.
S1	101210	Switch on volume control
S2	125106	Power Switch
S3	125107	Cut-off switch in line cord
P1	107249	Pilot light T47



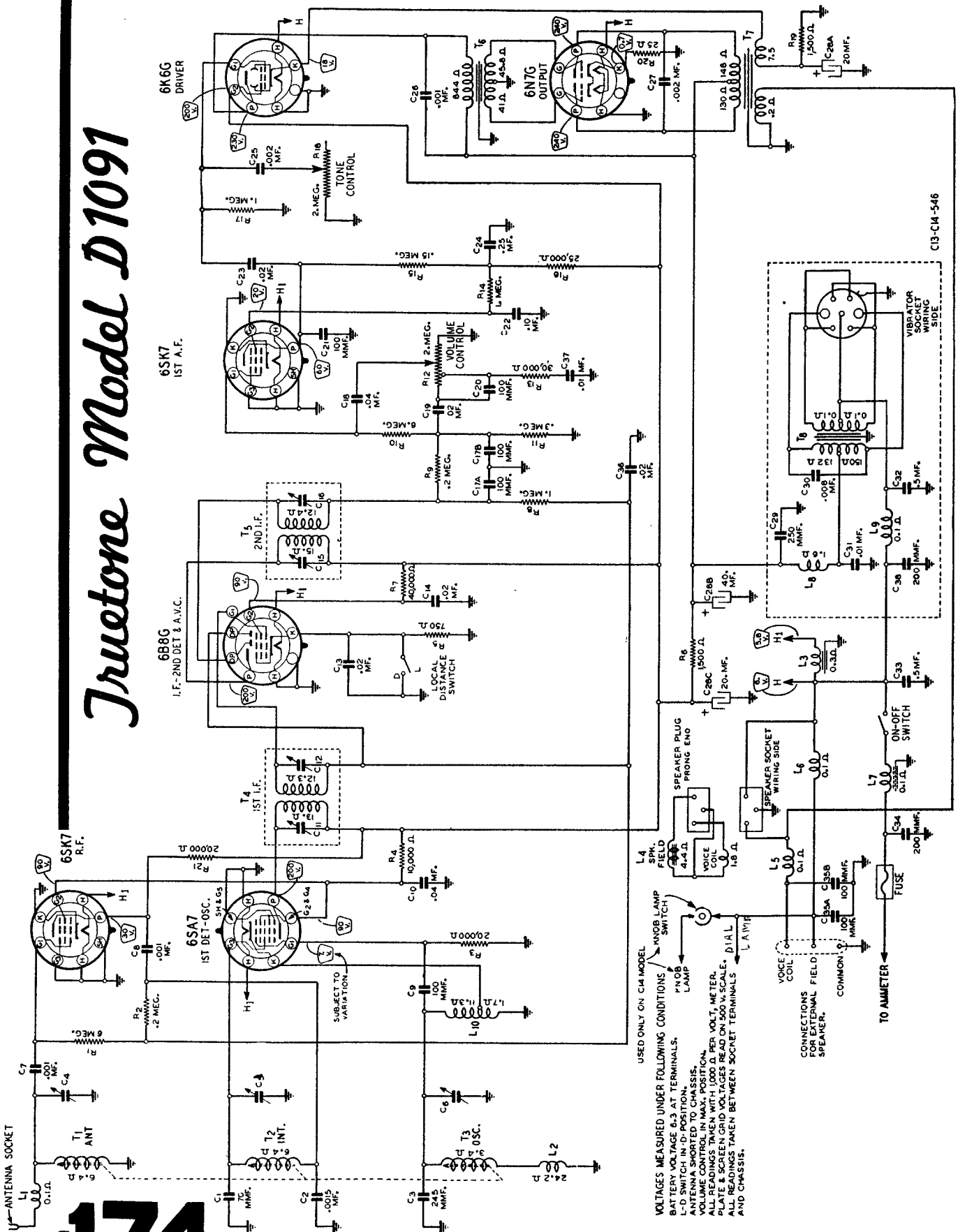
I. F. 465 K.C.

5459 35Z5GT



REAR OF CHASSIS

Jruetone Model D1091



C13-C14-546

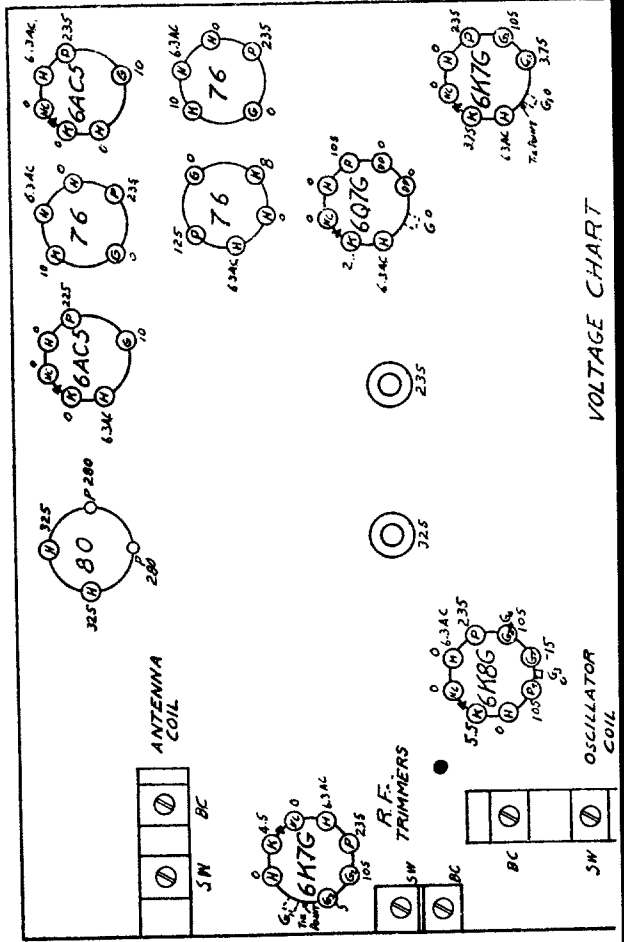
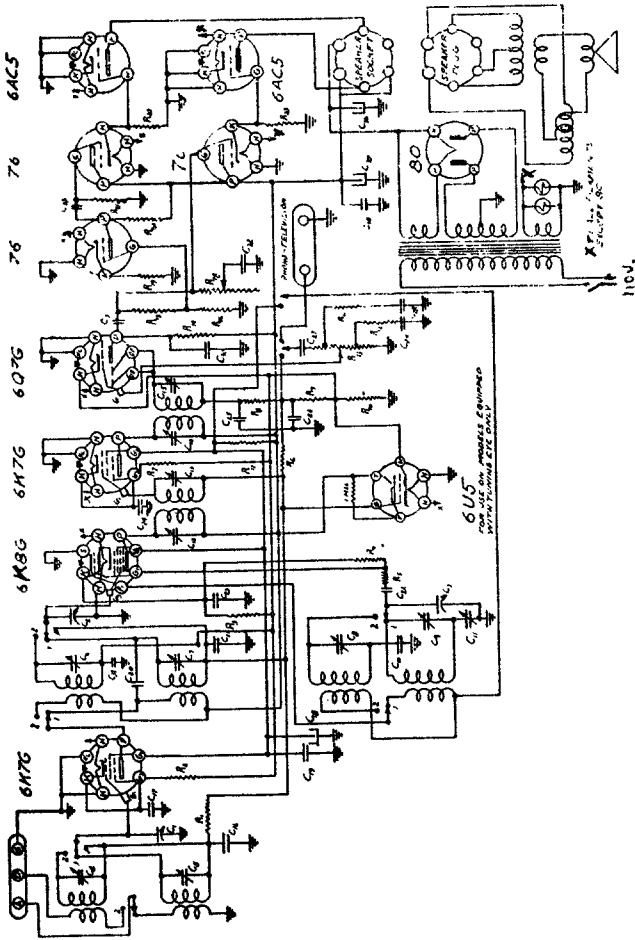
USED ONLY ON C14 MODEL
 VOLTAGES MEASURED UNDER FOLLOWING CONDITIONS:
 BATTERY VOLTAGE 4.3 AT TERMINALS.
 L-O SWITCH IN-D POSITION.
 ANTENNA SHORTED TO CHASSIS.
 ALL READINGS TAKEN WITH 1000 Ω. PER VOLT. METER.
 PLATE & SCREEN GRID VOLTAGES READ ON 500 Ω. SCALE.
 ALL READINGS TAKEN BETWEEN SOCKET TERMINALS
 AND CHASSIS.

CONNECTIONS
 SPEAKER
 SPEAKER
 COMMON

TO AMMETER

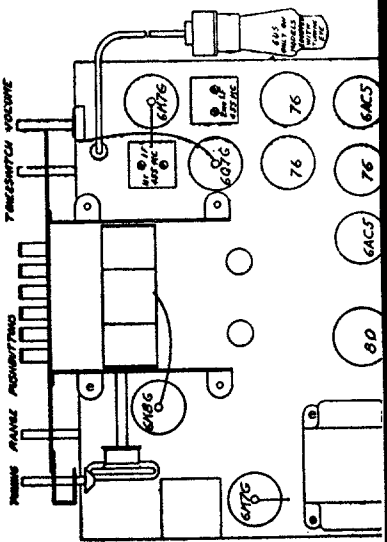
TRUETONE MODEL D924

SERIES A



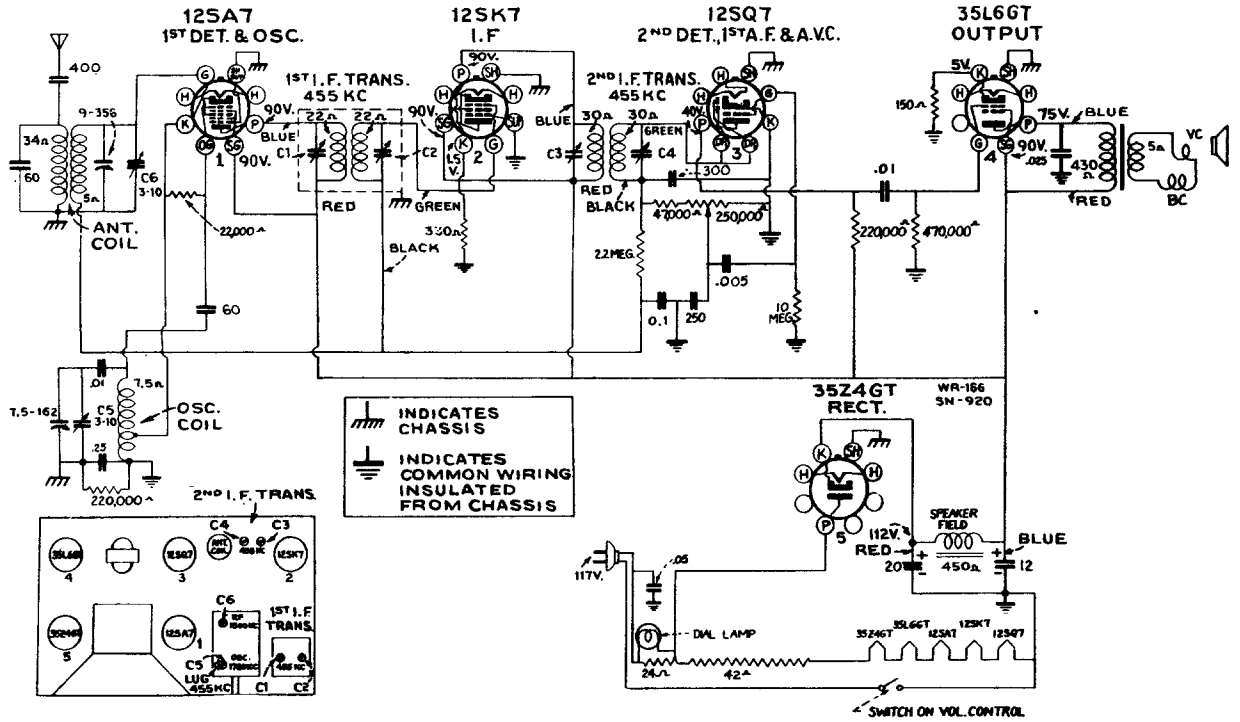
VOLTAGE CHART

- R4,20 Resistor—1/3 w., 50M + or - 10%.....
- R2,3 Resistor—1/3 w., 300r + or - 10%.....
- R19 Resistor—1/3 w., 5M + or - 10%.....
- R7 Resistor—1/3 w., 400r + or - 10%.....
- R1 Resistor—1/3 w., 10M + or - 10%.....
- R17 Resistor—3 w., 10 M + or - 10%.....
- R16 Resistor—1/3 w., 100M + or - 10%.....
- R11 Resistor—/3 w., 70r + or - 10%.....
- R14 Resistor—1/3 w., 200M + or - 20%.....
- R11 Resistor—1/3 w., 300M + or - 20%.....
- R15 Resistor—1/3 w., 400M + or - 10%.....
- R12,22,23 Resistor—1/3 w., 25M + or - 10%.....
- R6 Resistor—1/3 w., 1 meg. + or - 20%.....
- R21 Resistor—1/3 w., 500M + or - 10%.....
- R5 Resistor—1/3 w., 100r + or - 20%.....
- R18 Control—Tone and Switch.....
- R13 Control—Volume
- C32 Condenser—Paper, .01-.660v
- C1,2,3 Condenser—Var. (Mech. Tuner)
- C23,24 Condenser—Paper, .1-200v
- C30 Condenser—Mica .0001
- C19,34 Condenser—Paper, .1-400 v.
- C16,17,21 Condenser—Paper, .05-200 v.....
- C4,5,6,7,8,9 Condenser—Trimmer
- C10 Condenser—Padder, 3300 mmf.....
- C11 Condenser—Padder, 450 mmf, adjustable
- C18 Condenser—Elec., 20 mfd., 150v.....
- C29 Condenser—Paper, .03-200v
- C27,28 Condenser—Paper, .002-600v
- C36 Condenser—Elec. Wet, 16 mfd.....
- C35 Condenser—Elec. Wet, regulator.....
- 1 Cord A. C.
- C22 Condenser—Mica, .00005

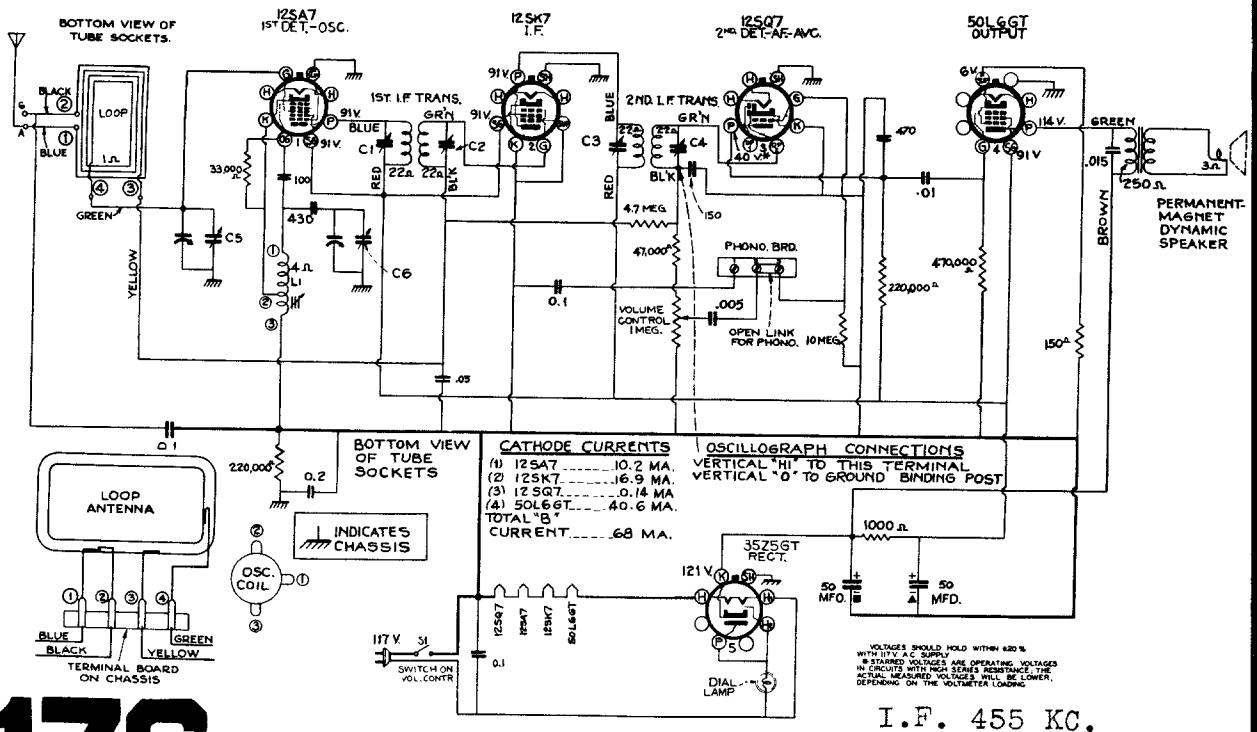


MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

Westinghouse Model WR-166



Model WR-170



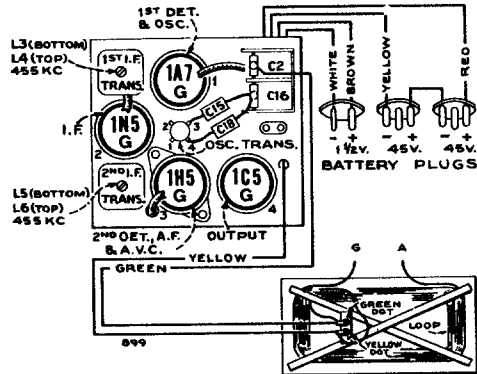
176

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I.F. 455 KC.

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

Westinghouse Model WR-674



Tube Location

Note: Values with star (*) are operating voltages. Values not starred are actual measured voltages. Measurements are made to chassis unless otherwise indicated, with set tuned to quiet point.

Output Meter Alignment.—If this method is used, connect the meter across the voice coil, and turn the receiver volume control to maximum.

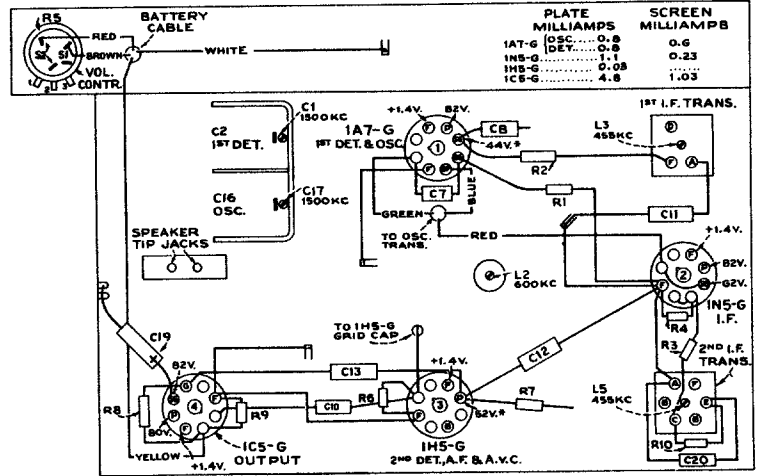
Test-oscillator.—For all alignment operations, keep the output as low as possible to avoid a-v-c action.

Pre-setting Dial.—With gang condenser in full mesh, the pointer should be horizontal.

Precautionary Lead Dress.—

1. Dress speaker leads down to chassis.
2. The green lead from the loop to the antenna section of the gang should be dressed between the output and detector tube shields and pulled toward the far corner of the loop by means of the rubber band.
3. The spiral shield on the 1st-A.F. grid lead should be brought as close as possible to the grid cap.
4. Leads to the high side and tap of the volume control should be dressed down to the chassis and away from the output tube plate lead.

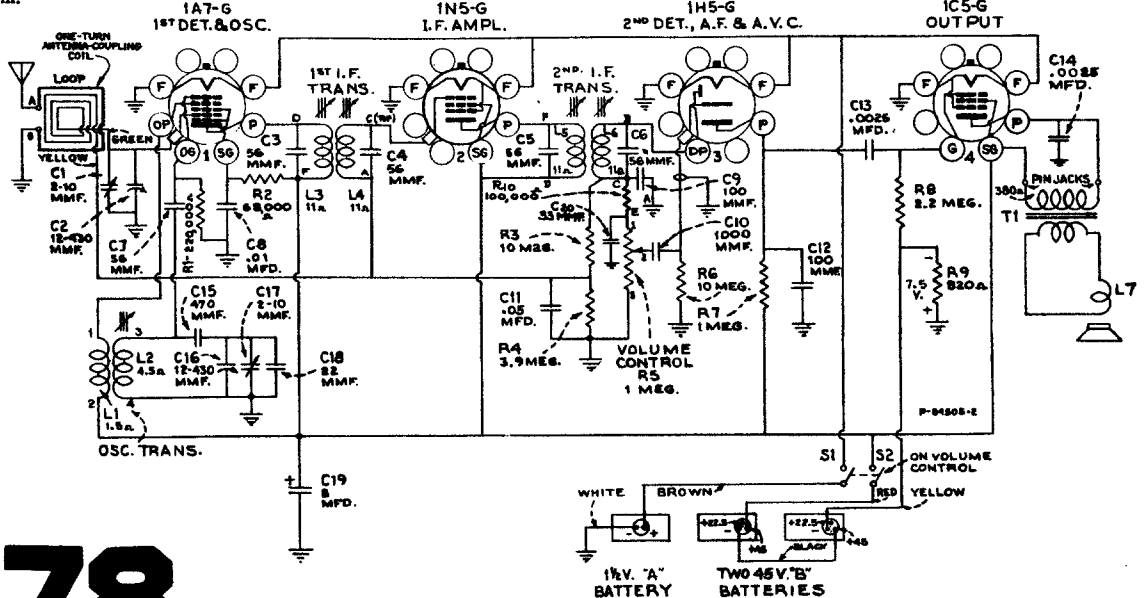
Antenna.—An antenna and ground may be connected to "A" and "G" at bottom of cabinet. If total length of antenna and lead-in is more than 150 feet, connect a 300 mmf capacitor in series with lead-in.



BOTTOM VIEW—REAR OF CHASSIS

Steps	Connect the high side of test-oscillator to—	Tune test-osc. to—	Turn radio dial to—	Adjust the following for max. peak output—
1	1N5-G grid cap, in series with .001 mfd.	455 kc	Quiet point between 550-750 kc	L5 and L6 (2nd I-F transformer)
2	1A7-G grid cap, in series with .001 mfd.	455 kc		L3 and L4 (1st I-F transformer)
3	Assemble chassis and batteries in correct position in cabinet, and fasten rear cover (loop) in place while making the following adjustments, which are accessible through holes in the bottom of the cabinet.			
4	Antenna terminal, in series with 200 mfd. Connect low side of test-osc. to "G" term.	1500 kc	1500 kc*	C17 (osc.) C1 (ant.)
5		600 kc	600 kc*	L2 (osc.) Rock in
6	Repeat steps 4 and 5.			

* Use bottom of "1" in "1500" for 1500 kc calibration point, and use center of the last "0" in "600" for 600 kc calibration point.

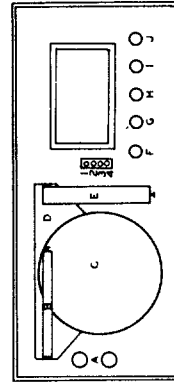
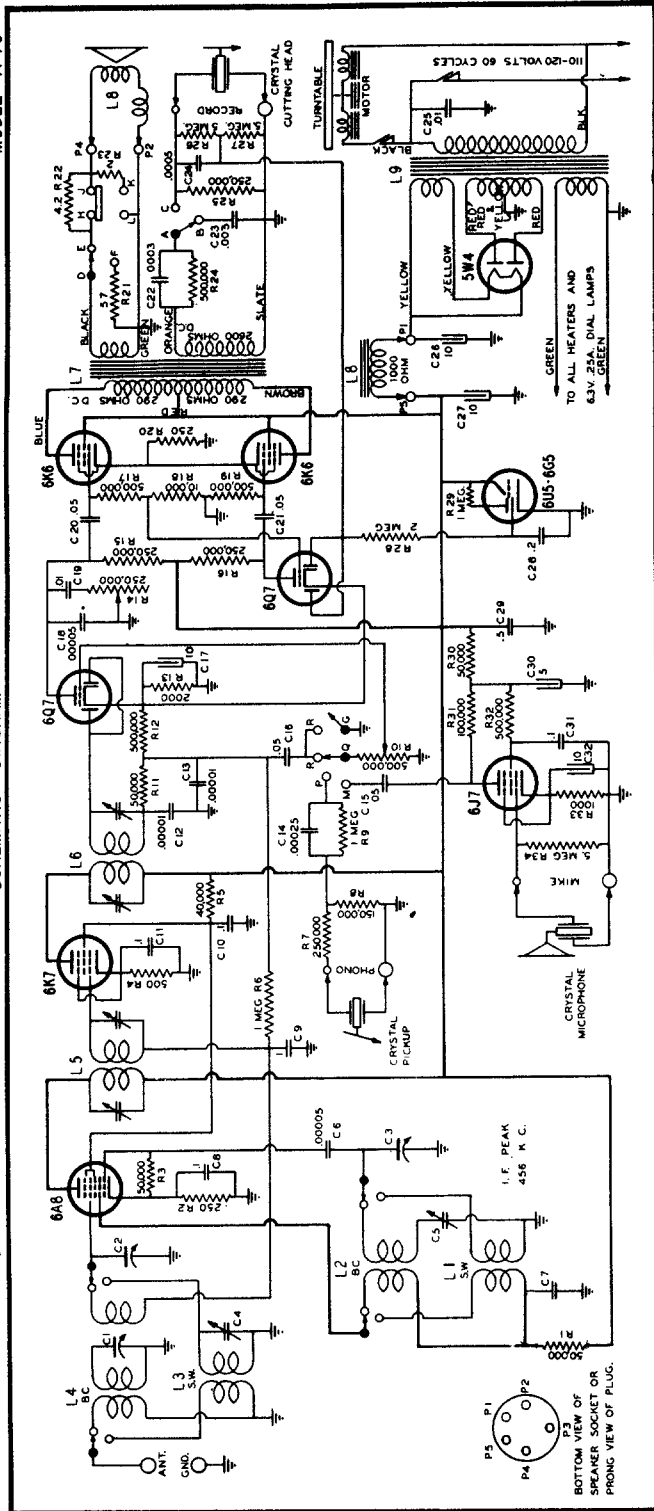


WILCOX - GAY CORPORATION

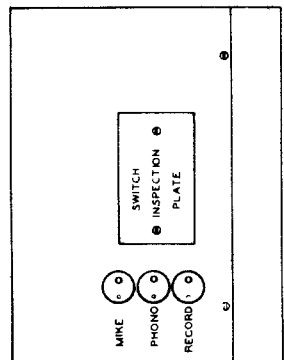
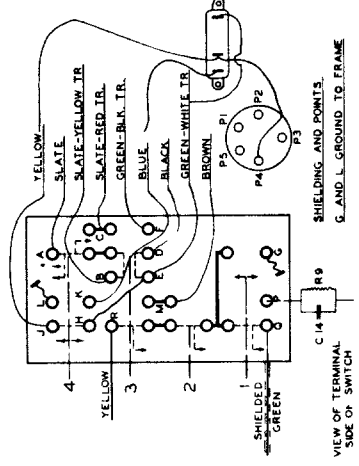
CHASSIS MODEL 9J9

SCHEMATIC DIAGRAM

MODEL A-70



1. OPENS Q-R, CLOSES Q-P, R-O
 2. OPENS Q-R, CLOSES Q-M
 3. OPENS Q-R, D-E, A-B
CLOSES Q-M, D-F, A-C
 4. FIRST POS. OPENS A-B, CLOSES A-C
REMAINS CLOSED H-V
 - 4-SECOND POS. OPENS H-J, CLOSES H-L
REMAINS CLOSED A-C
- TO USE RADIO ONLY-ALL PLUNGERS UP
CIRCUITS CLOSED Q-R, D-E, A-B, H-J
CIRCUITS OPEN: Q-P, D-F, A-C, H-L, Q-M, G-H

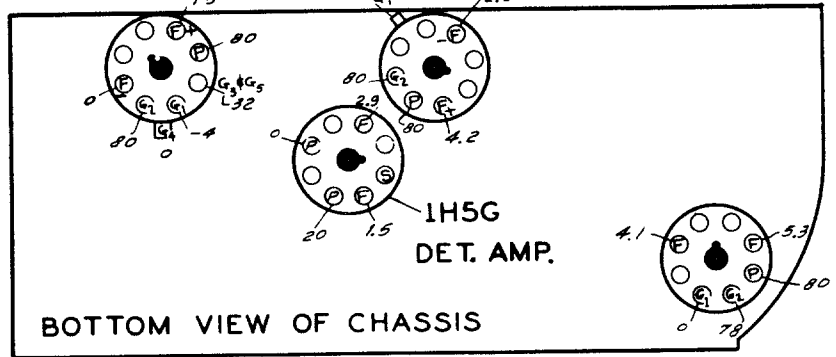
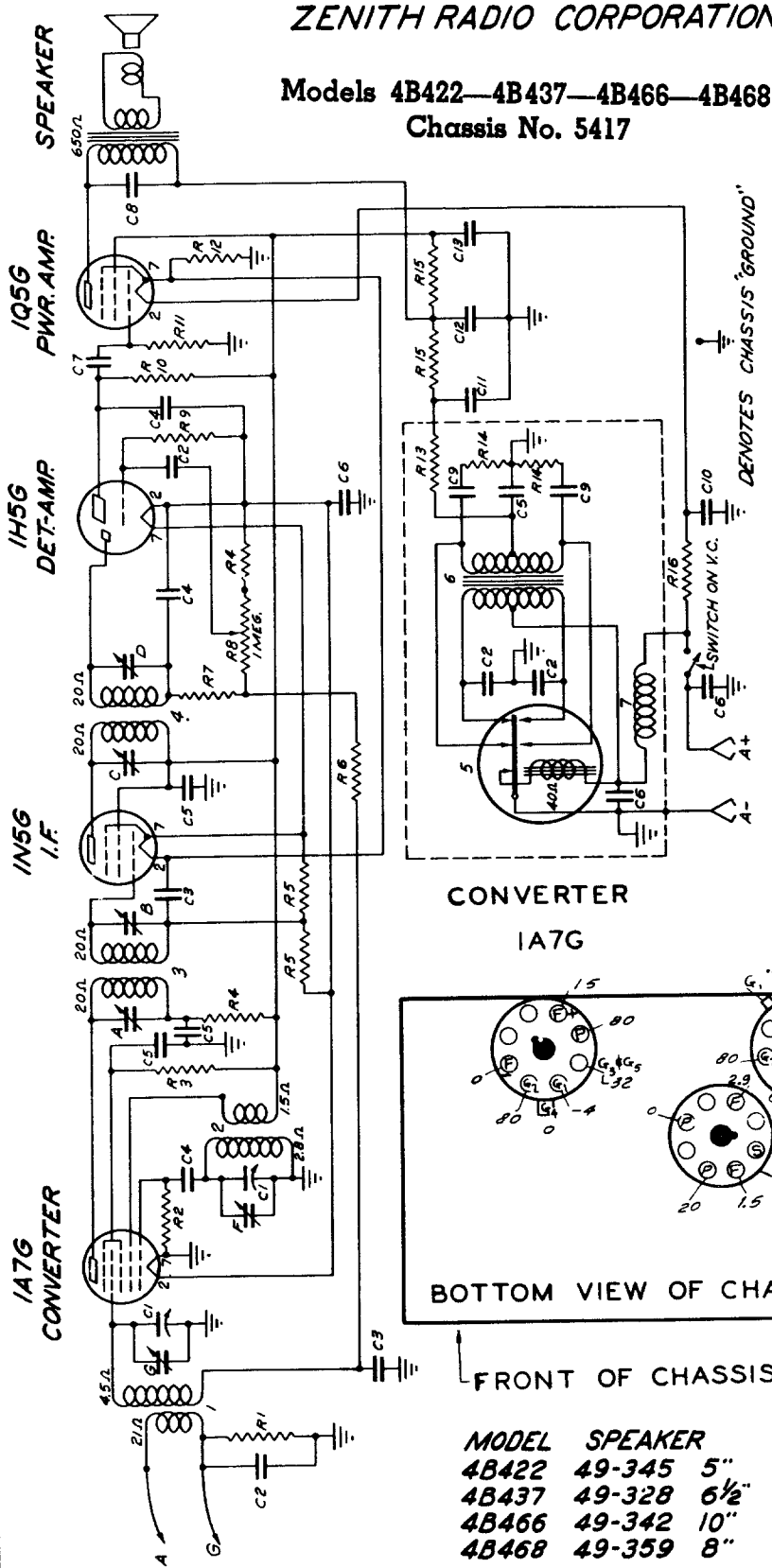


I. F. 456 KC.

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

ZENITH RADIO CORPORATION

Models 4B422—4B437—4B466—4B468
Chassis No. 5417



FRONT OF CHASSIS

MODEL	SPEAKER
4B422	49-345 5"
4B437	49-328 6½"
4B466	49-342 10"
4B468	49-359 8"

I.F. FREQUENCY 455 KC.

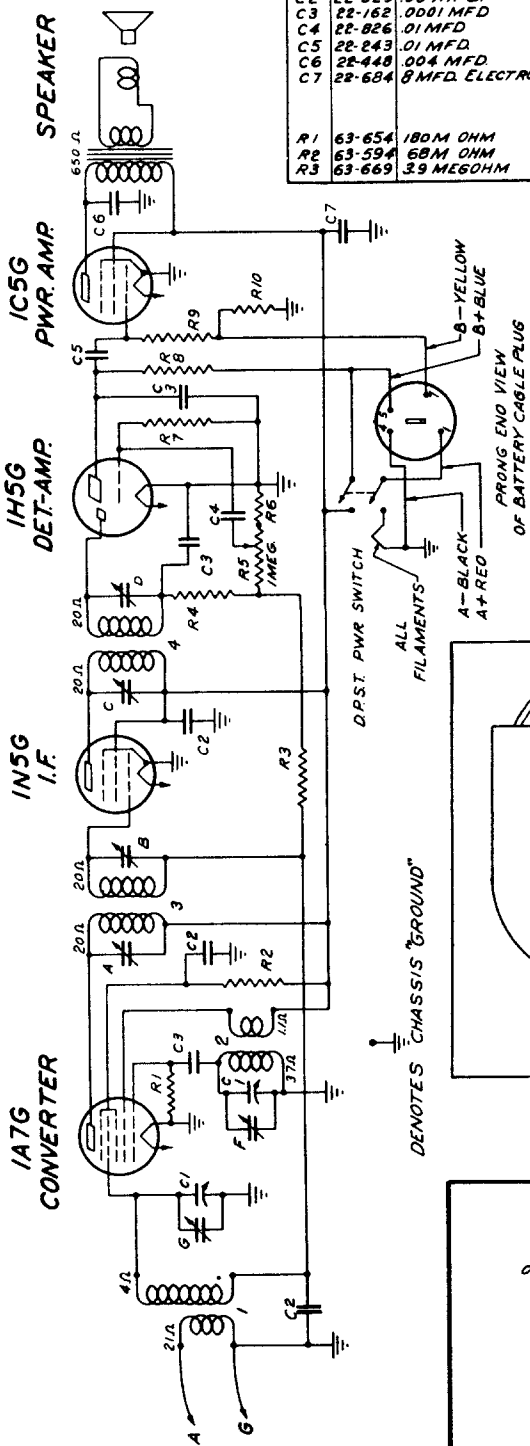
DWG. NO.	PART NO.	DESCRIPTION	DWG. NO.	PART NO.	DESCRIPTION
C1	22-695	TWO GANG VARIABLE	A2	63-595	100M OHM
C2	22-626	.01 MFD.	A3	63-594	68M OHM
C3	22-629	.05 MFD.	A4	63-583	1000 OHM
C4	22-162	10001 MFD.	A5	63-256	220M OHM
C5	22-828	.05 MFD.	A6	63-669	39 MEGOHM
C6	22-199	.5 MFD.	A7	63-593	47M OHM
C7	22-243	.01 MFD.	A8	63-1079	VOLUME CONTROL
C8	22-416	.04 MFD.	A9	63-604	10 MEGOHM
C9	22-961	500 MFD. ELECTROLYTIC	A10	63-271	1 MEGOHM
C10	22-961	500 MFD. ELECTROLYTIC	A11	63-600	2.2 MEGOHM
C11	22-748	.15 MFD.	A12	63-7060	50 OHM WIREWOUND
C12	22-748	.15 MFD.	A13	63-577	100 OHM
C13	22-748	.15 MFD.	A14	63-697	100 OHM
			A15	63-605	1000 OHM
			A16	63-1061	7 OHM
	R1	63-597			470M OHM

All voltages measured with a 1000 ohm per volt meter from chassis to socket contacts.

Voltage readings are all positive D.C. unless otherwise indicated.

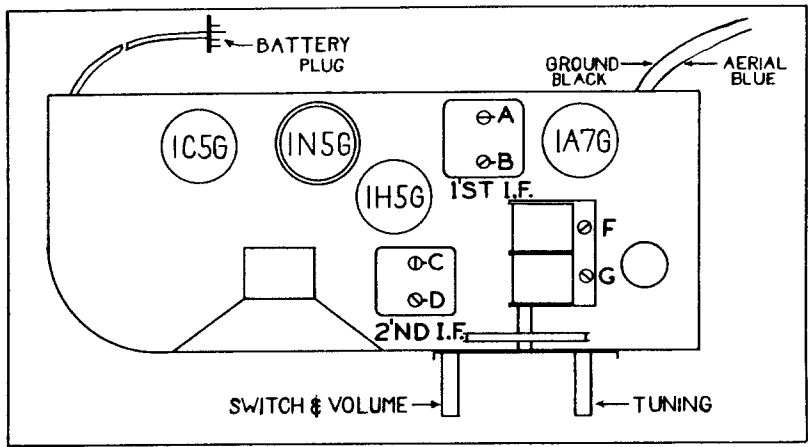
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

DIAG. N°	PART N°	DESCRIPTION	DIAG. N°	PART N°	DESCRIPTION	DIAG. N°	PART N°	DESCRIPTION
C1	22-695	TWO GANG VARIABLE	R4	63-593	47M OHM	4	95-590	2ND I.F. TRANS. ASSEM
C2	22-829	.05 MFD.	R5	63-1072	VOLUME CONTROL	A		1ST I.F. TRANS. PRI.
C3	22-162	.0001 MFD	R6	63-587	4700 OHM	B		1ST I.F. TRANS. SEC.
C4	22-826	.01 MFD	R7	63-604	10 MEGOHM	C		2ND I.F. TRANS. PRI.
C5	22-243	.01 MFD.	R8	63-271	1 MEGOHM	D		2ND I.F. TRANS. SEC.
C6	22-448	.004 MFD	R9	63-600	2.2 MEGOHM	E		B'DCAST OSC. (ON GANG)
C7	22-684	8MFD. ELECTROLYTIC	R10	63-238	1000 OHM	F		ANT. B. CAST (ON GANG)
R1	63-654	180M OHM	1	20-208	ANTENNA COIL	G		
R2	63-594	68M OHM	2	5-7815	OSCILLATOR COIL ASSEM			
R3	63-669	39 MEGOHM	3	95-589	1ST I.F. TRANS. ASSEM.			

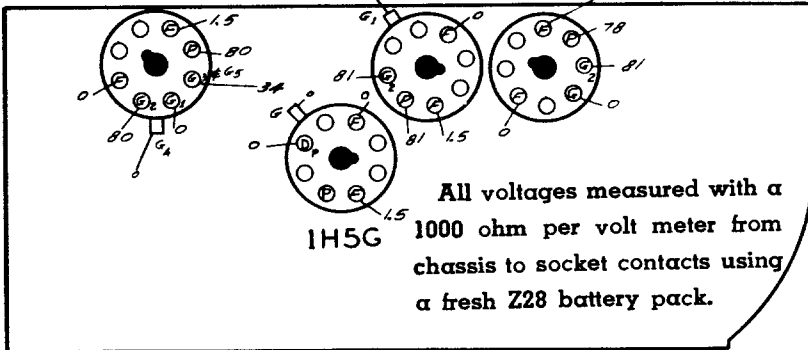


1 1/2 V. BATTERY PORTABLE
 I.F. FREQUENCY 455 KC.
 4 TUBE SUPERHETERODYNE
 CHASSIS N° 5420
 ZENITH RADIO CORPORATION

Models 4K422—4K435—4K465—4K466
 Chassis No. 5420



CONVERTER 1A7G I.F. 1N5G PWR.-AMP. 1C5G

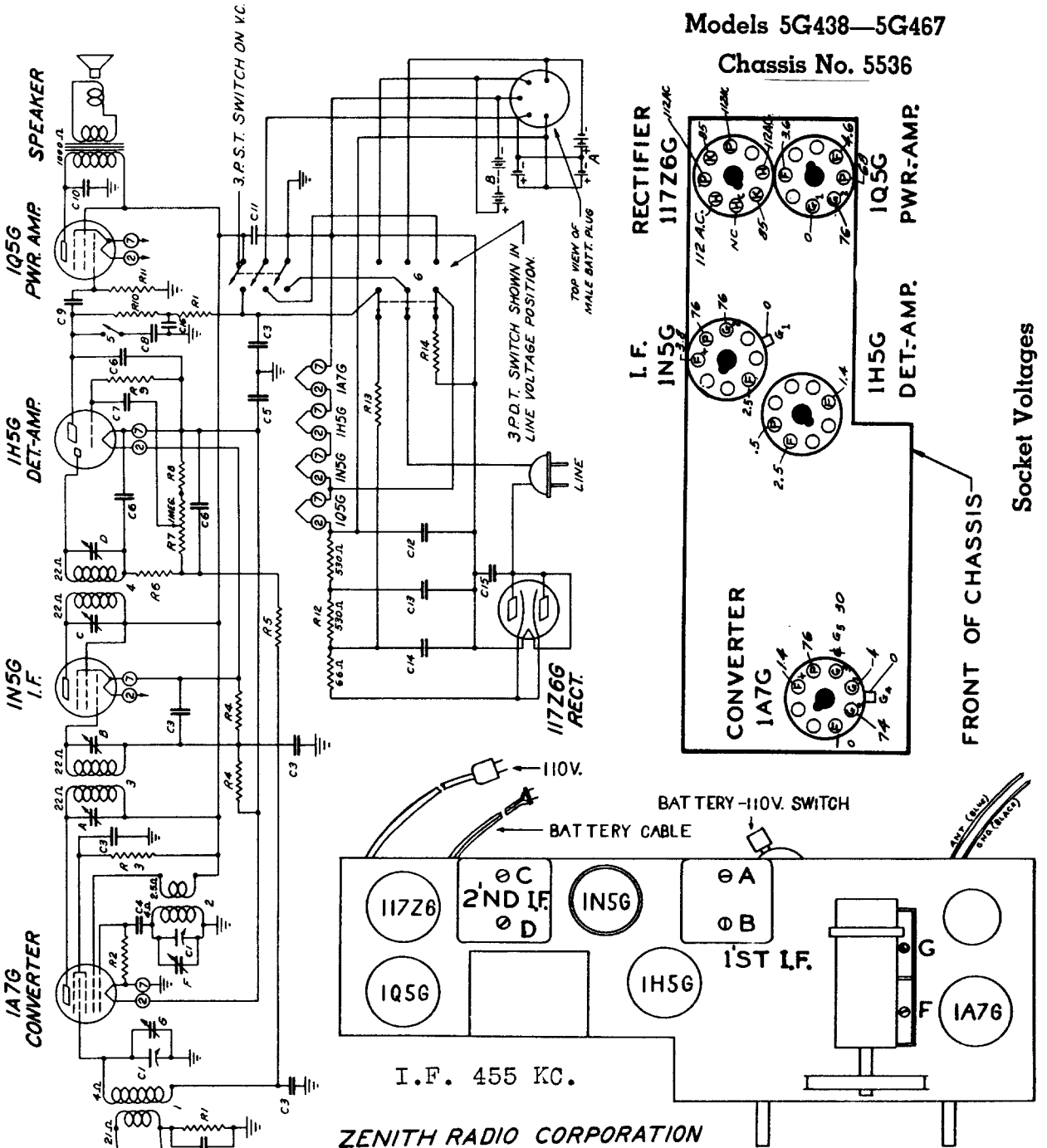


MODEL	SPEAKER
4K422	49-286 5"
4K435	49-328 6 1/2"
4K465	49-359 8"
4K466	49-342 10"

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

Models 5G438—5G467

Chassis No. 5536

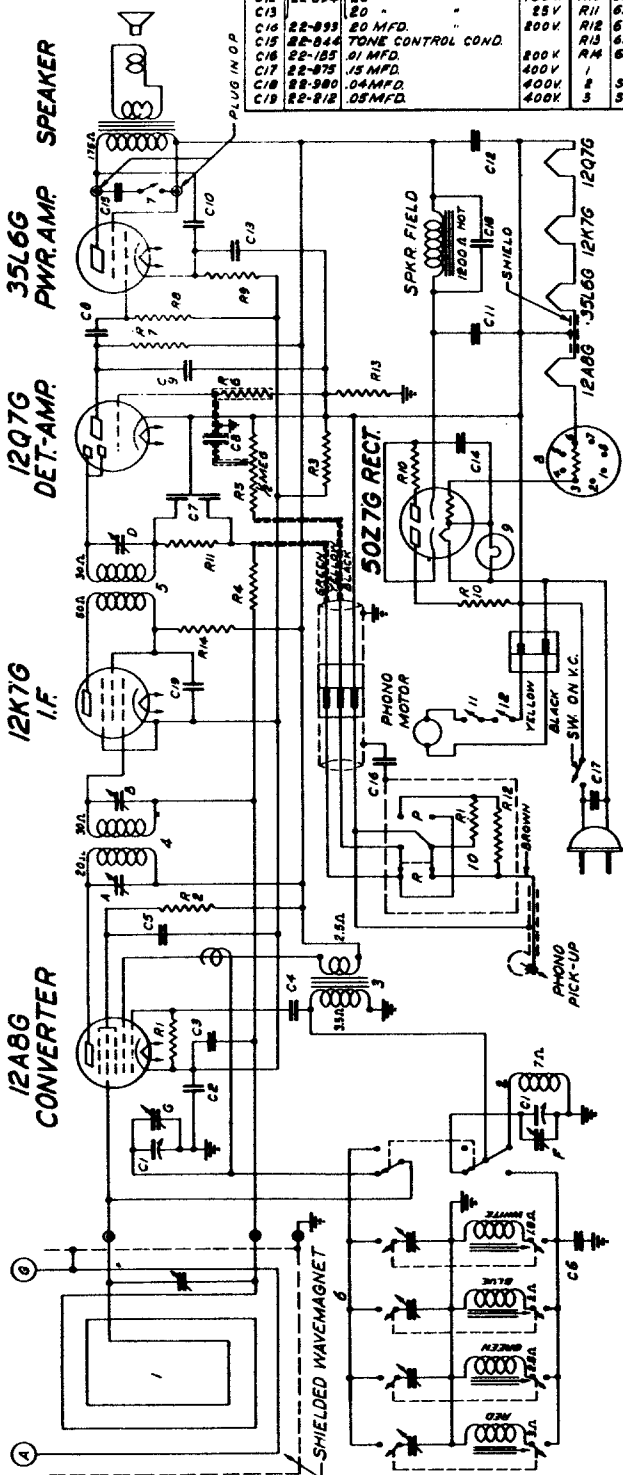


DIAG. NO.	PART NO.	DESCRIPTION	DIAG. NO.	PART NO.	DESCRIPTION	DIAG. NO.	PART NO.	DESCRIPTION
C1	22-310	TWO GANG VARIABLE	R1	63-597	470 M OHM	16W	1	20-208 ANTENNA COIL
C2	22-196	.01 MFD.	R2	63-652	120 M OHM	1/4W	2	5-6381 OSC. COIL ASSEMBLY
C3	22-829	.05 MFD.	R3	63-713	47 M OHM	1/4W	3	95-593 1ST I.F. TRANS.
C4	22-182	.00025 MFD.	R4	63-296	220 M OHM	1/4W	4	95-594 2ND I.F. TRANS.
C5	22-350	.25 MFD.	R5	63-669	3.9 MEGOHM	1/4W	5	85-187 TONE CONTROL SWITCH
C6	22-168	.0001 MFD.	R6	63-593	47 M OHM	1/4W	6	85-198 POWER SWITCH
C7	22-828	.01 MFD.	R7	63-504	VOLUME CONTROL			
C8	22-827	TONE CONTROL COND.	R8	63-583	1000 OHM	1/4W		
C9	22-243	.01 MFD.	R9	63-604	10 MEGOHM	1/4W	A	1ST I.F. TRANS. PRI.
C10	22-448	.004 MFD.	R10	63-271	1 MEGOHM	1/4W	B	1ST I.F. - SEC
C11	22-928	40 MFD. ELECTROLYTIC	R11	63-600	2.2 MEGOHM	1/4W	C	2ND I.F. - PRI.
C12		20 MFD.	R12	63-1041	3 SECTION CANDOHM		D	2ND I.F. - SEC
C13	22-879	.60 MFD.	R13	63-605	1000 OHM	1/4W	F	BROADCAST OSC. (ON GANG)
C14		.60 MFD.	R14	63-1012	90 OHM WIREWOUND	1/2W	G	ANTENNA BDCAST (ON GANG)
C15	22-869	.05 MFD.						
C16	22-138	.2 MFD.						

MODEL SPEAKER
5G438 49-332 8"
5G467 49-333 10"

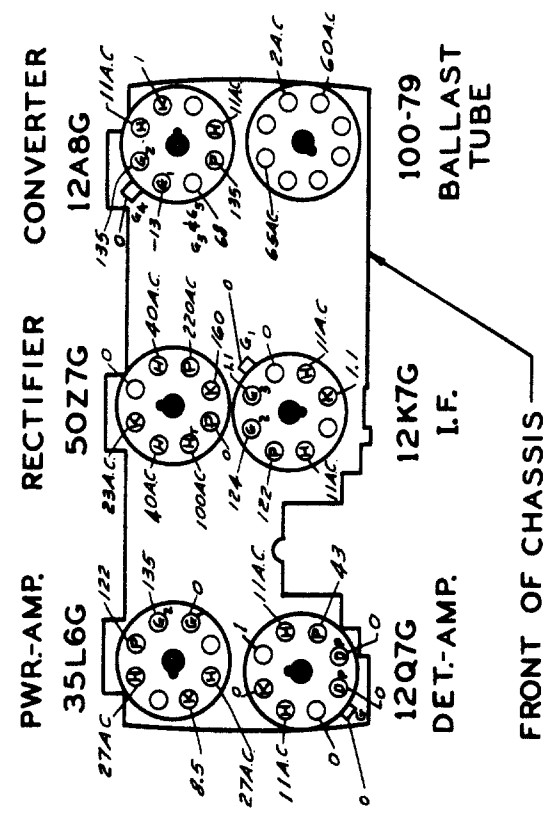
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

DIAG. NO.	PART NO.	DESCRIPTION	DIAG. NO.	PART NO.	DESCRIPTION	DIAG. NO.	PART NO.	DESCRIPTION
C 1	22-885	TWO-BAND VARIABLE					56902	1 ST I.F. TRANS. ASSEMBLY
C 2	22-838	.2MFD.					56903	2 ND I.F. TRANS.
C 3	22-850	.05MFD.	R 1	63-713	47M OHM	4	36997	AUTOMATIC TUNING UNIT ASSEM.
C 4		100MMFD.	R 2	63-591	22M OHM	5	MS 517	TO NE CONTROL SWITCH
C 5	22-941	.02MFD.	R 3	63-572	15 OHM	6	100-79	BALLAST TUBE
C 6	22-888	COMPENSATING COND.	R 4	63-600	22 MEGOHM	7	100-39	PILOT LIGHT BULB 2.9V 17A
C 7		DUAL 100 MMFD.	R 5	63-1028	VOLUME CONTROL	8	85-192	PHONO SWITCH
C 8	22-837	.01 MFD.	R 6	63-724	47 MEGOHM	9	85-191	AUTOMATIC STOP SWITCH
C 9	22-833	.03MFD.	R 7	63-296	220 M OHM	10	85-191	AC SWITCH
C 10	22-836	.10 MFD. ELECTROLYTIC	R 8	63-597	470 M OHM	11		
C 11			R 9	63-686	150 OHM WIREWOUND	12		
C 12	22-894	20 "	R 10	63-1023	22 OHM			
C 13		20 "	R 11	63-593	47 M OHM	A		1 ST I.F. TRANS. PRI.
C 14	22-893	20 MFD.	R 12	63-719	470 M OHM	B		1 ST I.F. SEC.
C 15	22-844	TO NE CONTROL COND.	R 13	63-717	220 M OHM	D		2 ND I.F. SEC.
C 16	22-185	.15 MFD.	R 14	63-683	1000 OHM	F		BROADCAST OSC. (ON 6AND)
C 17	22-875	.15 MFD.				P		ANTENNA BROADCAST (ON 6AND)
C 18	22-900	.04MFD.						
C 19	22-818	.05MFD.						



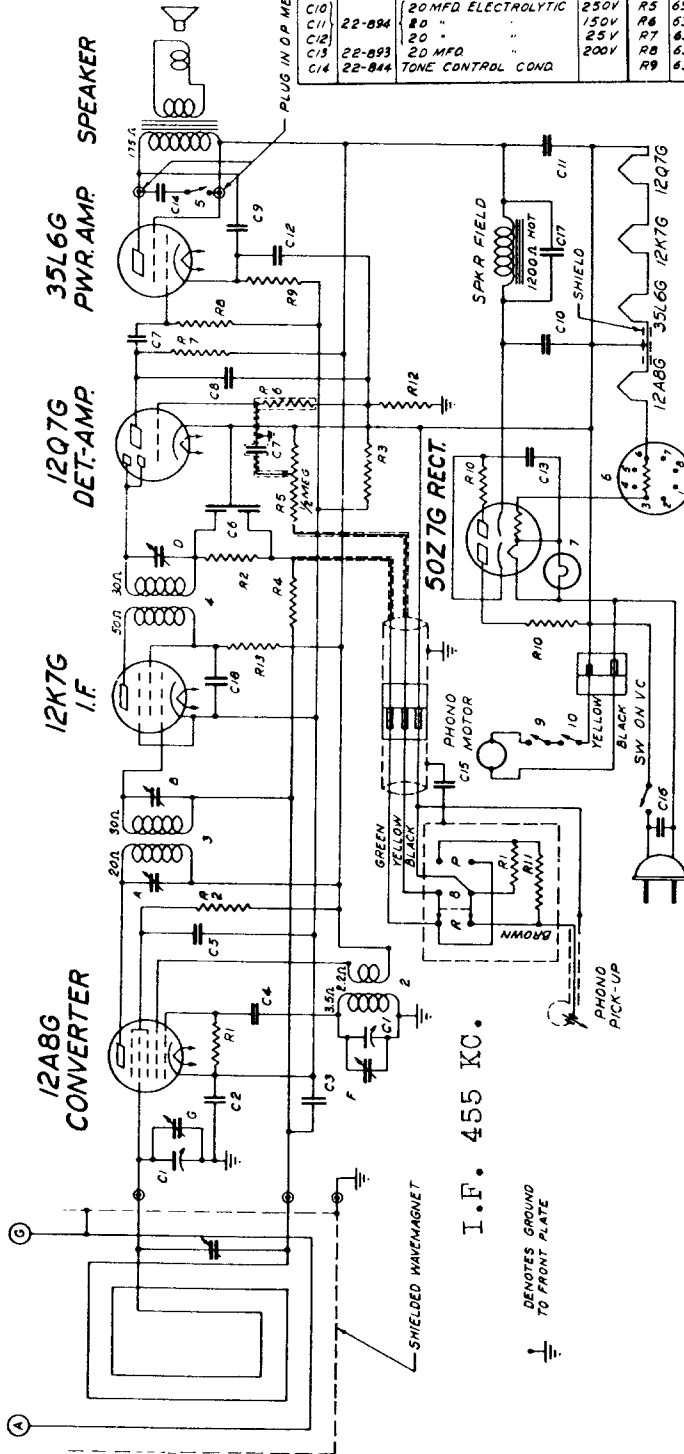
I.F. FREQUENCY 455 KC
 6 TUBE SUPERHETERODYNE
 VOLTAGE DOUBLER A.C.
 CHASSIS N°5672-P
 ZENITH RADIO CORPORATION

Model 6R485
 Chassis No. 5672P



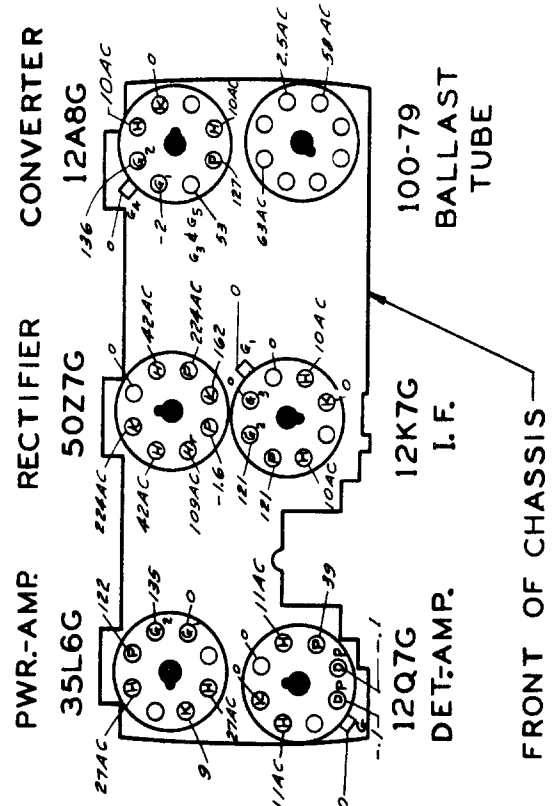
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

DIAG. NO.	PART NO.	DESCRIPTION	VOLTS	DIAG. NO.	PART NO.	DESCRIPTION	VOLTS	DIAG. NO.	PART NO.	DESCRIPTION	WATTAGE
C1	22-885	TWO-GANG VARIABLE		C15	22-185	01 MFD	200V	R10	63-1023	22 OHM WIREWOUND	1/4 W
C2	22-938	2MFD	200V	C16	22-875	15 MFD	400V	R11	63-719	470M OHM	1/4 W
C3	22-250	05 MFD	200V	C17	22-980	04 MFD	400V	R12	63-717	220M OHM	1/4 W
C4		100 MMFD		C18	22-212	05 MFD	400V	R13	63-583	1000 OHM	1/4 W
C5	22-841	02 MFD	200V	R1	63-713	47 M OHM	1/4 W	1		WAVEMAGNET ASSEMBLY	
C6		DUAL 100 MMFD		R2	63-593	47 M OHM	1/4 W	2		OSC COIL	
C7	22-837	01 MFD	400V	R3	63-572	15 OHM	1/4 W	3	56901	12.1 F TRANS	
C8	22-833	0005 MFD	600V	R4	63-600	2.2 MEG OHM	1/4 W	4	56903	8.2 F TRANS	
C9	22-836	03 MFD	400V	R5	63-1028	VOLUME CONTROL		5	MS517	TONE CONTROL SWITCH	
C10		20 MFD ELECTROLYTIC	250V	R6	63-724	47 MEG OHM	1/4 W	6	100-79	BALLAST TUBE	
C11	22-894	80 "	150V	R7	63-286	220M OHM	1/4 W	7	100-39	PILOT LIGHT 29V 0.17A	
C12	22-893	20 "	25 V	R8	63-597	470M OHM	1/4 W	8	65-192	PHONO SWITCH	
C13	22-893	20 MFD	200V	R9	63-686	150 OHM WIREWOUND	1/2 W				
C14	22-844	TONE CONTRL COND									



ZENITH RADIO CORPORATION

Model 6R481
Chassis No. 5675



NOTE

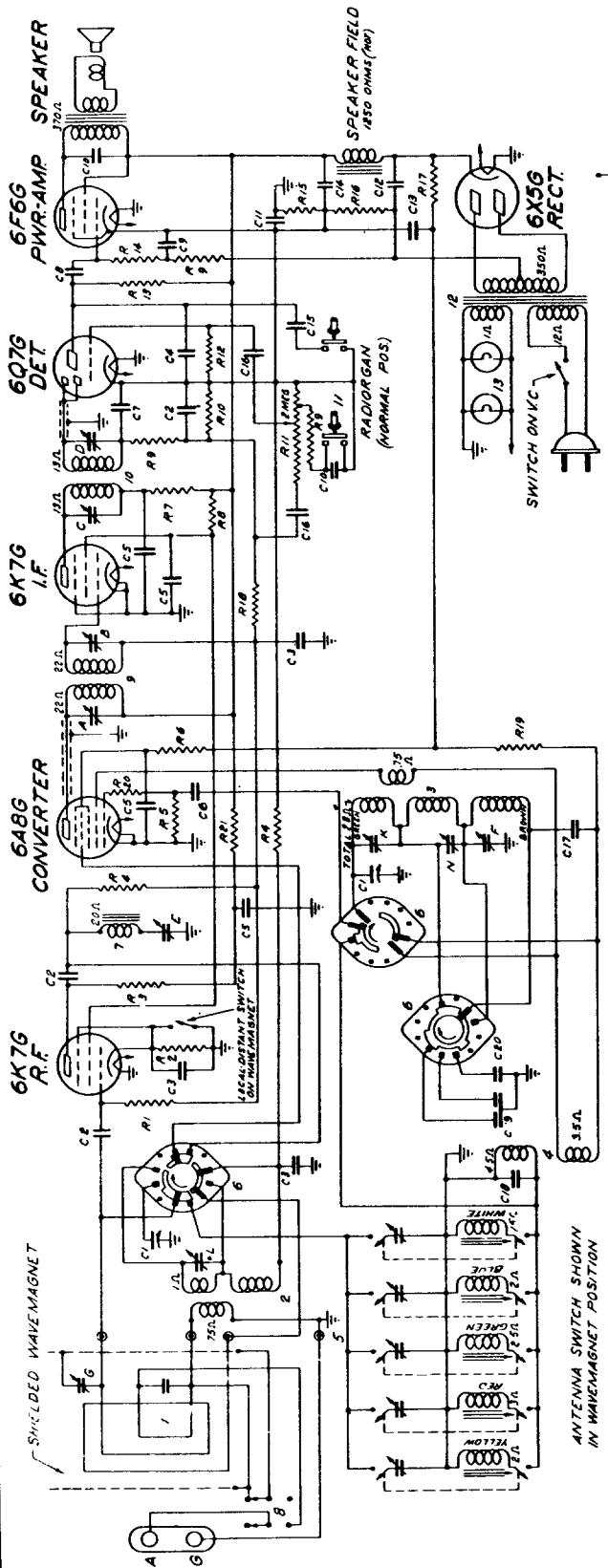
All voltages measured with a 1000 ohm per volt meter from chassis to socket contact indicated.

All voltages are positive D.C. unless marked otherwise.

Volume control on full.

Line voltage 120 A.C.

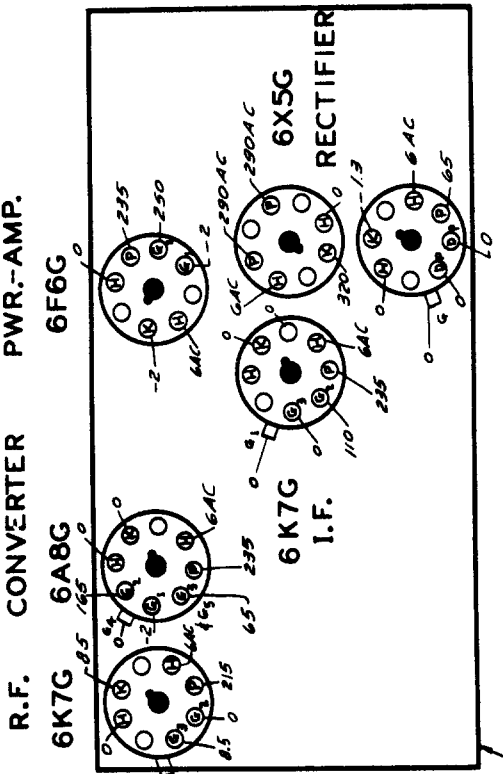
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



BAND SWITCH SHOWN IN AUTOMATIC POSITION

ANTENNA SWITCH SHOWN IN WAVEMAGNET POSITION

DETENTS CHASSIS GROUND



DATE	PART	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION
C1	22-10	22.5K VARIABLE	1	6E6	22-888	OSCILLATOR PRODGER
C2	22-82	60M MFD	1	6F6G	1	PWR-AMP
C3	22-829	0.5M MFD	1	6X5G	1	RECT.
C4	22-716	0.005 MFD	1	6K7G	1	I.F.
C5	22-828	0.05 MFD	1	6Q7G	1	DET.
C6	22-828	0.05 MFD	1	6A8G	1	CONVERTER
C7	22-82	0.0025 MFD	1	6E6	1	OSCILLATOR PRODGER
C8	22-830	0.2 MFD	1	6F6G	1	PWR-AMP
C9	22-819	0.3 MFD	1	6X5G	1	RECT.
C10	22-819	0.3 MFD	1	6K7G	1	I.F.
C11	22-915	20MFD ELECTROLYTIC	1	6Q7G	1	DET.
C12	22-876	10MFD ELECTROLYTIC	1	6A8G	1	CONVERTER
C13	22-848	15MFD ELECTROLYTIC	1	6E6	1	OSCILLATOR PRODGER
C14	22-196	101MFD	1	6F6G	1	PWR-AMP
C15	22-159	0.02 MFD	1	6X5G	1	RECT.
C16	22-868	COMPENSATING COND	1	6K7G	1	I.F.
C17	22-853	DUAL OSC. PRODGER	1	6Q7G	1	DET.

NOTE

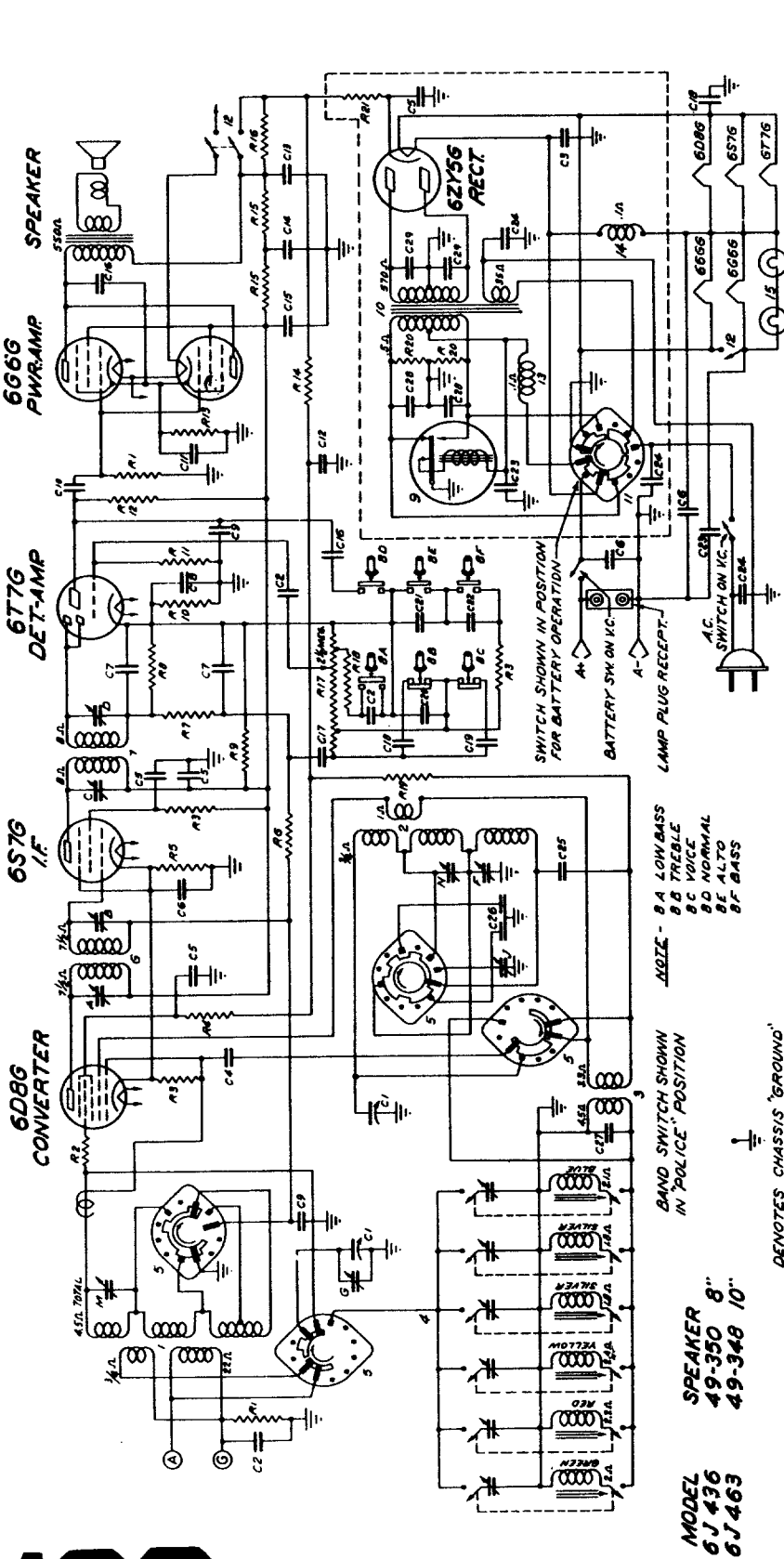
All voltages measured with a 1000 ohm per volt meter from chassis to socket contact indicated.

IF FREQUENCY 455 KC
6 TUBE SUPERHETERODYNE
CHASSIS No 5678 3BAND
ZENITH RADIO CORPORATION

Models 6S439—6S469
Chassis No. 5678

FRONT OF CHASSIS

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



MODEL
6J 436
6J 463

BAND SWITCH SHOWN
IN "POLICE" POSITION

SWITCH SHOWN IN POSITION
FOR BATTERY OPERATION

NOTE - 8A LOW BASS
8B TREBLE
8C VOICE
8D NORMAL
8E ALTO
8F BASS

⊥ DENOTES CHASSIS "GROUND"

I.F. FREQUENCY 455 KC.
6 TUBE SUPERHETERODYNE
CHASSIS NO. 5679 6K-DC. 100V-AC. 3 BAND
ZENITH RADIO CORPORATION

Models 6J436—6J463
Chassis No. 5679

QWG NO.	PART NO.	DESCRIPTION	QWG NO.	PART NO.	DESCRIPTION	QWG NO.	PART NO.	DESCRIPTION	QWG NO.	PART NO.	DESCRIPTION
C1	22-225	100K/50MFD	A 15	65-605	1000 OHM	1	678U	ANTENNA COIL ASSEMBLY	1	678U	ANTENNA COIL ASSEMBLY
C2	22-225	100K/50MFD	A 16	65-605	4750 OHM	2	678V	OSCILLATOR COIL ASSEMBLY	2	678V	OSCILLATOR COIL ASSEMBLY
C3	22-225	100K/50MFD	A 17	65-605	4750 OHM	3	678W	OSCILLATOR COIL ASSEMBLY	3	678W	OSCILLATOR COIL ASSEMBLY
C4	22-225	100K/50MFD	A 18	65-605	22M OHM	4	678X	OSCILLATOR COIL ASSEMBLY	4	678X	OSCILLATOR COIL ASSEMBLY
C5	22-225	100K/50MFD	A 19	65-605	22M OHM	5	678Y	OSCILLATOR COIL ASSEMBLY	5	678Y	OSCILLATOR COIL ASSEMBLY
C6	22-225	100K/50MFD	A 20	65-605	22M OHM	6	678Z	OSCILLATOR COIL ASSEMBLY	6	678Z	OSCILLATOR COIL ASSEMBLY
C7	22-225	100K/50MFD	A 21	65-605	100 OHM	7	678AA	OSCILLATOR COIL ASSEMBLY	7	678AA	OSCILLATOR COIL ASSEMBLY
C8	22-225	100K/50MFD	A 22	65-605	100 OHM	8	678AB	OSCILLATOR COIL ASSEMBLY	8	678AB	OSCILLATOR COIL ASSEMBLY
C9	22-225	100K/50MFD	A 23	65-605	100 OHM	9	678AC	OSCILLATOR COIL ASSEMBLY	9	678AC	OSCILLATOR COIL ASSEMBLY
C10	22-225	100K/50MFD	A 24	65-605	100 OHM	10	678AD	OSCILLATOR COIL ASSEMBLY	10	678AD	OSCILLATOR COIL ASSEMBLY
C11	22-225	100K/50MFD	A 25	65-605	100 OHM	11	678AE	OSCILLATOR COIL ASSEMBLY	11	678AE	OSCILLATOR COIL ASSEMBLY
C12	22-225	100K/50MFD	A 26	65-605	100 OHM	12	678AF	OSCILLATOR COIL ASSEMBLY	12	678AF	OSCILLATOR COIL ASSEMBLY
C13	22-225	100K/50MFD	A 27	65-605	100 OHM	13	678AG	OSCILLATOR COIL ASSEMBLY	13	678AG	OSCILLATOR COIL ASSEMBLY
C14	22-225	100K/50MFD	A 28	65-605	100 OHM	14	678AH	OSCILLATOR COIL ASSEMBLY	14	678AH	OSCILLATOR COIL ASSEMBLY
C15	22-225	100K/50MFD	A 29	65-605	100 OHM	15	678AI	OSCILLATOR COIL ASSEMBLY	15	678AI	OSCILLATOR COIL ASSEMBLY
C16	22-225	100K/50MFD	A 30	65-605	100 OHM	16	678AJ	OSCILLATOR COIL ASSEMBLY	16	678AJ	OSCILLATOR COIL ASSEMBLY
C17	22-225	100K/50MFD	A 31	65-605	100 OHM	17	678AK	OSCILLATOR COIL ASSEMBLY	17	678AK	OSCILLATOR COIL ASSEMBLY
C18	22-225	100K/50MFD	A 32	65-605	100 OHM	18	678AL	OSCILLATOR COIL ASSEMBLY	18	678AL	OSCILLATOR COIL ASSEMBLY
C19	22-225	100K/50MFD	A 33	65-605	100 OHM	19	678AM	OSCILLATOR COIL ASSEMBLY	19	678AM	OSCILLATOR COIL ASSEMBLY
C20	22-225	100K/50MFD	A 34	65-605	100 OHM	20	678AN	OSCILLATOR COIL ASSEMBLY	20	678AN	OSCILLATOR COIL ASSEMBLY
C21	22-225	100K/50MFD	A 35	65-605	100 OHM	21	678AO	OSCILLATOR COIL ASSEMBLY	21	678AO	OSCILLATOR COIL ASSEMBLY
C22	22-225	100K/50MFD	A 36	65-605	100 OHM	22	678AP	OSCILLATOR COIL ASSEMBLY	22	678AP	OSCILLATOR COIL ASSEMBLY
C23	22-225	100K/50MFD	A 37	65-605	100 OHM	23	678AQ	OSCILLATOR COIL ASSEMBLY	23	678AQ	OSCILLATOR COIL ASSEMBLY

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

ALIGNMENT PROCEDURE

Operation	Connect Test Oscillator to	Dummy Antenna	Input Signal Frequency	Band	Set Dial At	Adjust Trimmers	Purpose
1	6D8 R. F. Grid	0.5 Mfd.	455 Kc.	I. F.	600 Kc.	A, B, C, D	I. F. Alignment
2	Rec. Ant. Post	200 Mfd.	1500 Kc.	Broadcast	1500 Kc.	F	Set Oscillator to Scale
3	Rec. Ant. Post	200 Mfd.	1500 Kc.	Broadcast	1500 Kc.	G	Alignment of Antenna
4	Rec. Ant. Post	200 Mfd.	600 Kc.	Broadcast	600 Kc.	J	Rock Gang and Adjust for Max. Output
5	Rec. Ant. Post	200 Mfd.		Broadcast		F, G	Repeat 2 and 3
6	Rec. Ant. Post	400 Ohms	18000 Kc.	S. W.	18000 Kc.	M	Rock gang & adj. for max. output
7	Rec. Ant. Post	400 Ohms	16000 Kc.	S. W.	16000 Kc.	L	Rock Gang and Adjust for Max. Output
8	Rec. Ant. Post	400 Ohms	6000 Kc.	Police	6000 Kc.	N	Rock Gang and Adjust for Max. Output

Models 6J436—6J463

CHASSIS No. 5679

All voltages measured with a 1000 ohm per volt meter from chassis to socket contact indicated.

All voltages are positive D.C. unless marked otherwise.

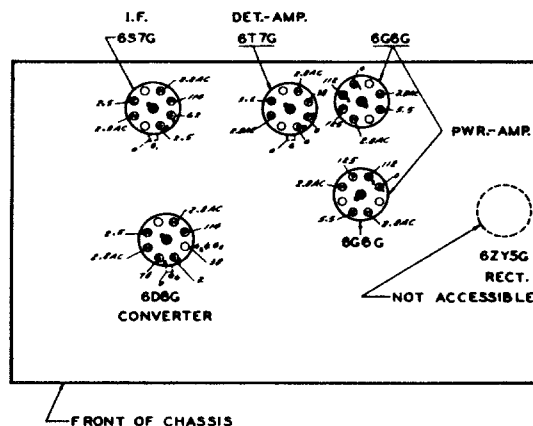
Battery conserver switch in **NORMAL** position.

Volume control full on.

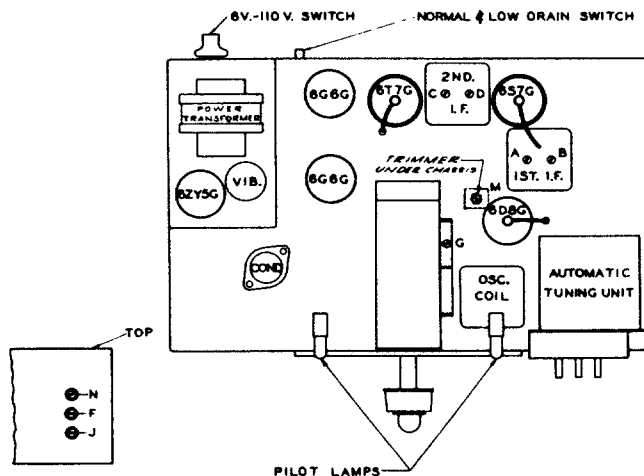
Line voltage 112 v. A.C.

LEGEND

- F—Filament
- H—Heater
- D—Diode
- G1—Control Grid
- G2—Screen Grid
- G3—Suppressor Grid
- P—Plate
- K—Cathode



Socket Voltages



Location of Tubes and Trimmers

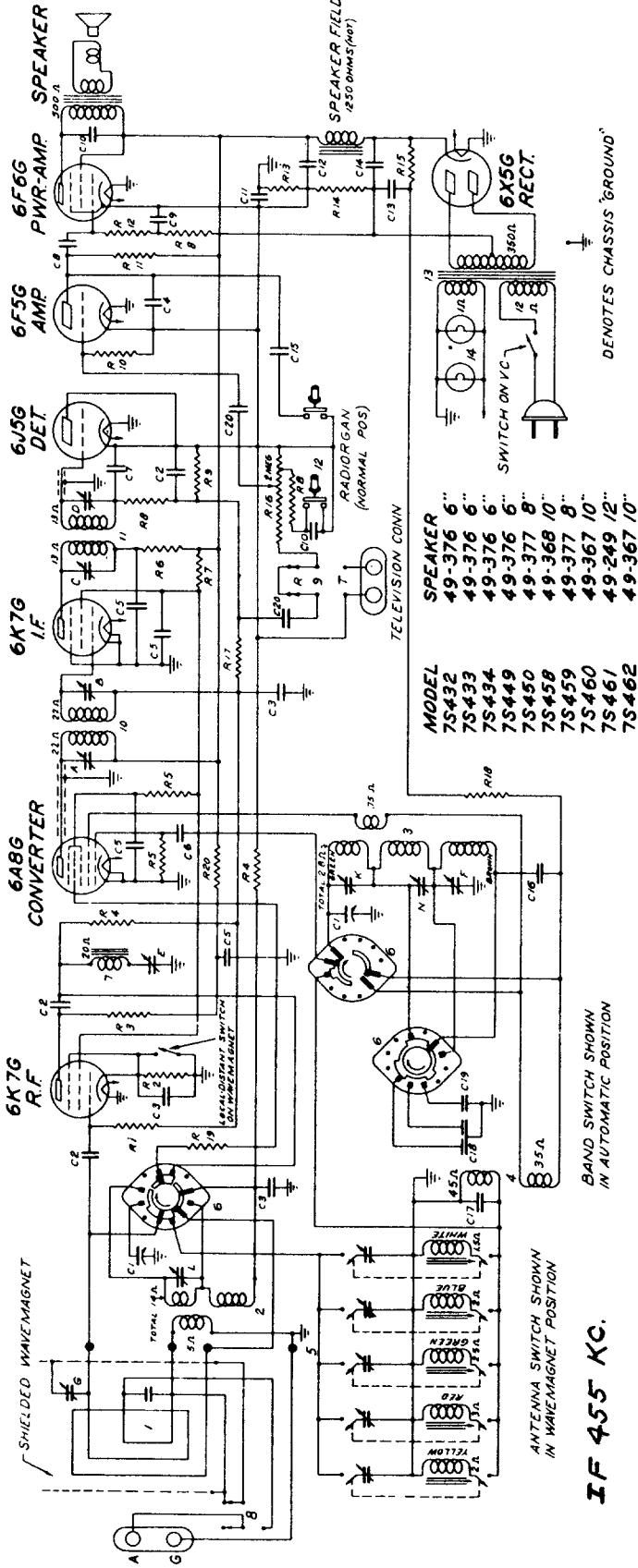
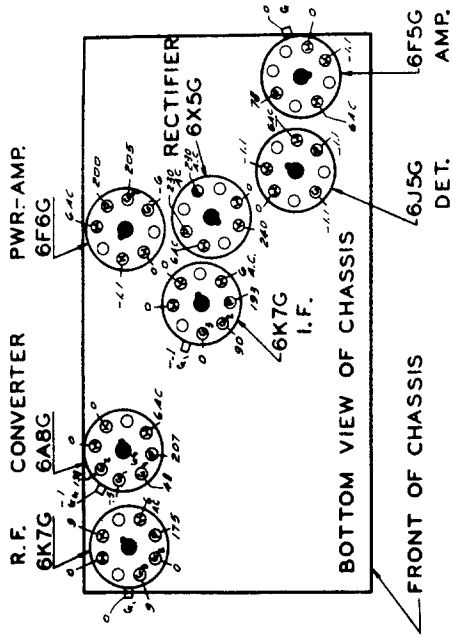
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

Models 7S432-7S433-7S434-7S449-7S450-7S458-7S459-7S460-7S461-7S462

Chassis No. 5724

ZENITH RADIO CORPORATION

QWA	QWT	QWV	QWY	QWZ	QXA	QXB	QXC	QXD	QXE	QXF	QXG	QXH	QXI	QXJ	QXK	QXL	QXM	QXN	QXO	QXP	QXQ	QXR	QXS	QXT	QXU	QXV	QXW	QX8	QX9	QX0
C 1	22-88	2 GANG VARIABLE	600V	R 15	83-1030	VOLUME CONTROL	1/4 W																							
C 2	22-162	0001 MFD.	200V	A 7	63-599	1/5 MEGOHM	1/4 W																							
C 3	22-282	05 MFD.	400V	R 19	83-571	100 OHM	1/4 W																							
C 4	22-289	05 MFD.	400V	R 20	83-705	2200 OHM	1/4 W																							
C 5	22-289	30 MATED	400V																											
C 6	22-182	00025 MFD	600V	R 1	63-871	1 MEG OHM	1/4 W																							
C 7	22-182	00025 MFD	600V	R 2	63-589	6900 OHM	1/4 W																							
C 8	22-916	05 MFD.	400V	R 3	63-601	15M OHM	1/4 W																							
C 9	22-229	05 MFD.	400V	R 4	63-592	53M OHM	1/4 W																							
C 10	22-229	05 MFD.	400V	R 5	63-583	1000 OHM	1/4 W																							
C 11	22-229	05 MFD.	400V	R 6	63-876	27M OHM	1/4 W																							
C 12	22-719	16 MFD ELECTROLYTIC	400V	R 7	63-659	470M OHM	1/4 W																							
C 13	22-344	16 MFD ELECTROLYTIC	450V	R 8	63-976	1/5 MEG OHM	1/4 W																							
C 14	22-448	004 MFD.	600V	R 9	63-294	280M OHM	1/4 W																							
C 15	22-358	002 MFD.	600V	R 10	63-976	1/5 MEG OHM	1/4 W																							
C 16	22-358	002 MFD.	600V	R 11	63-294	280M OHM	1/4 W																							
C 17	22-285	002 MFD.	600V	R 12	63-1056	47 OHM WIREWOUND	1/4 W																							
C 18	22-285	002 MFD.	600V	R 13	63-1055	22M OHM	1/4 W																							
C 19	22-286	05 MFD.	400V	R 15	63-1055	22M OHM	1/4 W																							



MODEL	SPEAKER
7S432	49-376 6"
7S433	49-376 6"
7S434	49-376 6"
7S449	49-376 6"
7S450	49-377 8"
7S458	49-368 10"
7S459	49-377 8"
7S460	49-367 10"
7S461	49-249 12"
7S462	49-367 10"

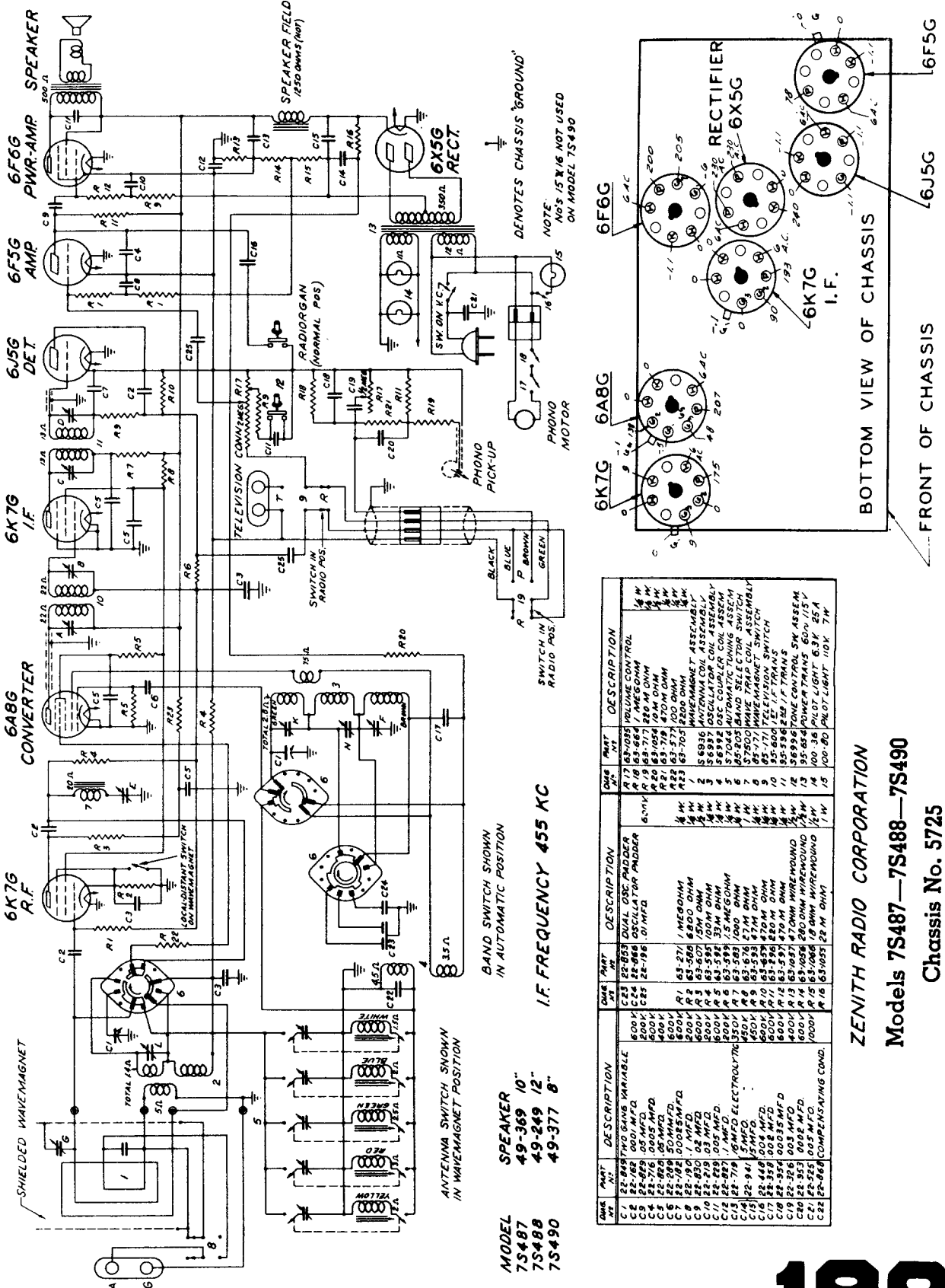
BAND SWITCH SHOWN IN AUTOMATIC POSITION

ANTENNA SWITCH SHOWN IN WAVEMAGNET POSITION

IF 455 KC.

DEMOTES CHASSIS "GROUND"

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



MODEL 7S487
7S488
7S490

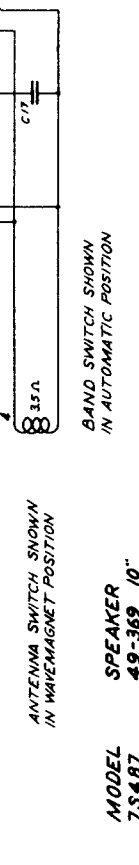
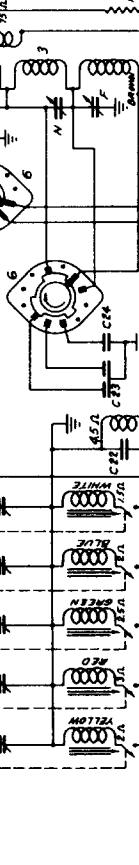
MODEL 49-369 10"
49-249 12"
49-377 8"

I.F. FREQUENCY 455 KC

ANTENNA SWITCH SHOWN
IN WAVEMAGNET POSITION

BAND SWITCH SHOWN
IN AUTOMATIC POSITION

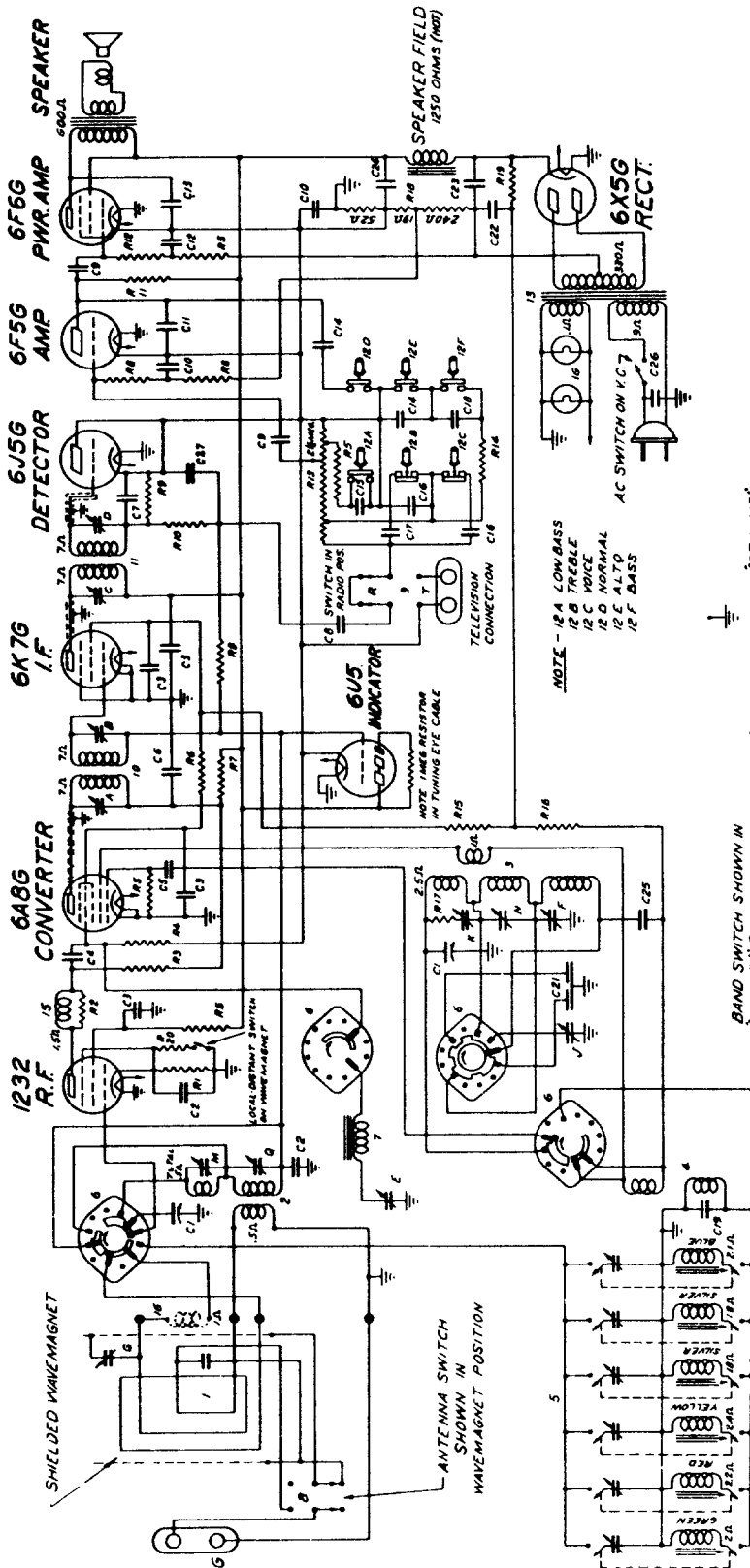
NOTE: R15, R16, R18 NOT USED
ON MODEL 7S490



QWG PART NO.	DESCRIPTION	QWG PART NO.	DESCRIPTION	QWG PART NO.	DESCRIPTION
C1	22-968 170 Ω GANG VARIABLE	R17	63-035 VOLUME CONTROL	R18	63-664 1 MEG OHM
C2	22-968 100 μF MFD	R19	63-702 82 M OHM	R20	63-702 82 M OHM
C3	22-968 100 μF MFD	R21	63-718 470 M OHM	R22	63-718 470 M OHM
C4	22-968 100 μF MFD	R23	63-702 820 OHM	R24	63-702 820 OHM
C5	22-968 100 μF MFD	R25	63-507 150 OHM	R26	63-507 150 OHM
C6	22-968 100 μF MFD	R27	63-595 100 OHM	R28	63-595 100 OHM
C7	22-968 100 μF MFD	R29	63-595 100 OHM	R30	63-595 100 OHM
C8	22-968 100 μF MFD	R31	63-595 100 OHM	R32	63-595 100 OHM
C9	22-968 100 μF MFD	R33	63-595 100 OHM	R34	63-595 100 OHM
C10	22-968 100 μF MFD	R35	63-595 100 OHM	R36	63-595 100 OHM
C11	22-968 100 μF MFD	R37	63-595 100 OHM	R38	63-595 100 OHM
C12	22-968 100 μF MFD	R39	63-595 100 OHM	R40	63-595 100 OHM
C13	22-968 100 μF MFD	R41	63-595 100 OHM	R42	63-595 100 OHM
C14	22-968 100 μF MFD	R43	63-595 100 OHM	R44	63-595 100 OHM
C15	22-968 100 μF MFD	R45	63-595 100 OHM	R46	63-595 100 OHM
C16	22-968 100 μF MFD	R47	63-595 100 OHM	R48	63-595 100 OHM
C17	22-968 100 μF MFD	R49	63-595 100 OHM	R50	63-595 100 OHM
C18	22-968 100 μF MFD	R51	63-595 100 OHM	R52	63-595 100 OHM
C19	22-968 100 μF MFD	R53	63-595 100 OHM	R54	63-595 100 OHM
C20	22-968 100 μF MFD	R55	63-595 100 OHM	R56	63-595 100 OHM
C21	22-968 100 μF MFD	R57	63-595 100 OHM	R58	63-595 100 OHM
C22	22-968 100 μF MFD	R59	63-595 100 OHM	R60	63-595 100 OHM

ZENITH RADIO CORPORATION
Models 7S487—7S488—7S490
Chassis No. 5725

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



Models 8S443—8S451—8S463
Chassis No. 5808

1 F. FREQUENCY 455 KC
8 TUBE SUPERHETERODYNE
CHASSIS NO. 5808 3BAND
ZENITH RADIO CORPORATION

NOTE - 12 A LOW BASS
 12 B TREBLE
 12 C VOICE
 12 D NORMAL
 12 E ALTD
 12 F BASS

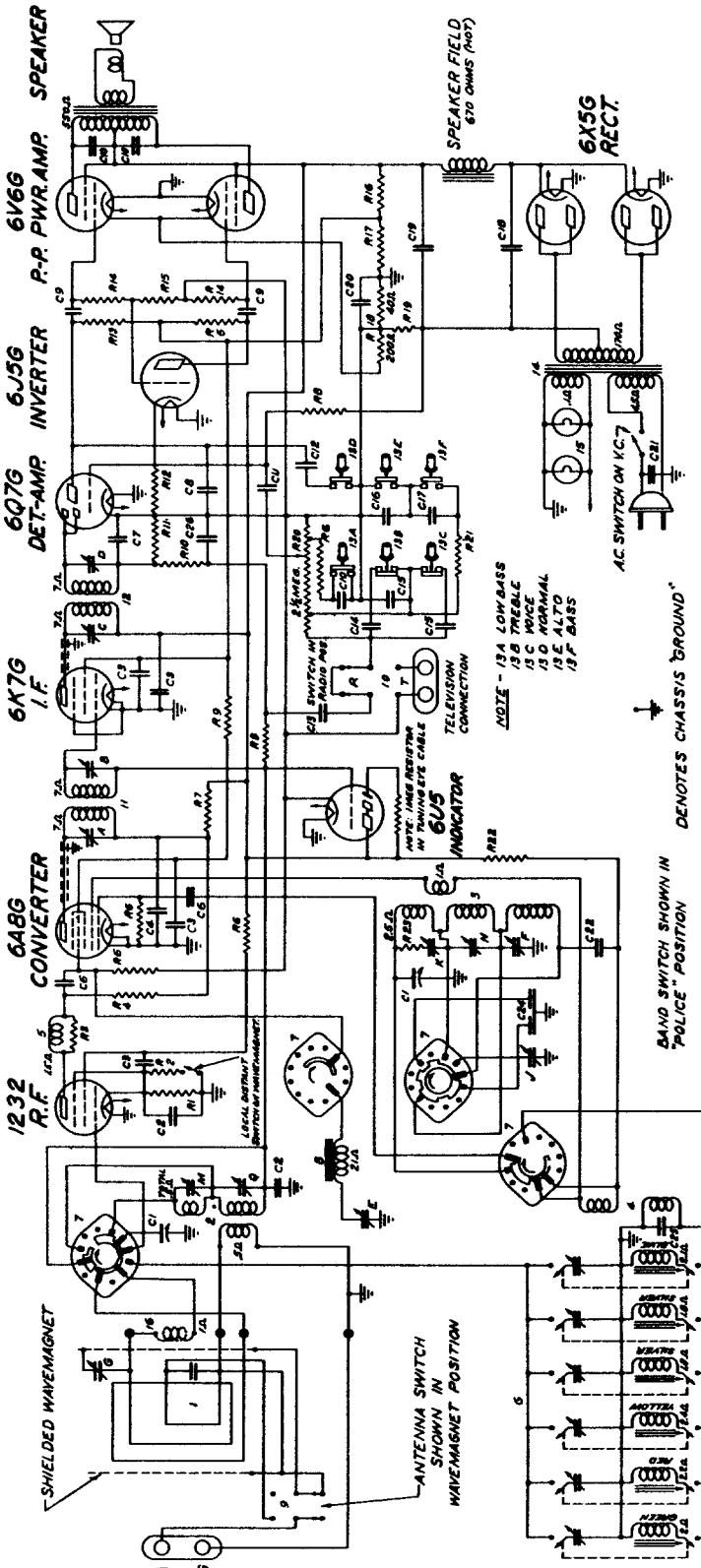
BAND SWITCH SHOWN IN 'POLICE' POSITION
 DEMOTES CHASSIS 'GROUND'

COMP. PART NO.	DESCRIPTION	QTY.	DESCRIPTION	QTY.	DESCRIPTION
C1	22-927 TWO GANG VARIABLE	1	6 MFD ELECTROLYTIC	1	WAVEMAGNET ASSEMBLY
C2	22-899 .05 MFD	2	16 MFD 60 M OHM	1	7S204 ANTENNA COIL ASSEMBLY
C3	22-820 .02 MFD	4	R 16 83-671 33 M OHM	1	5781 OSCILLATOR COIL ASSEMBLY
C4	22-719 .05 MFD	4	R 15 83-574 100K OHM	1	5763 AUTOMATIC TUNING SWITCH
C5	22-121 25 M MFD	4	R 17 83-576 100 OHM	1	5755 WAVE TRAP COIL ASSEMBLY
C6	22-825 .1 MFD	4	600V R 19 83-131 15 M OHM	1	85-171 WAVEMAGNET SWITCH
C7	22-182 .00885 MFD	4	R 20 83-574 33 OHM	1	85-171 TELEVISION SWITCH
C8	22-327 .02 MFD	4	R 1 53-598 10.5K OHM	1	85-682 1E 1 TRANS
C9	22-327 .02 MFD	4	R 2 53-598 10.5K OHM	1	85-683 2E 1 TRANS
C10	22-327 .02 MFD	4	R 3 53-598 10.5K OHM	1	5764STONE CONTROL SW ASSEM
C11	22-954 .0095 MFD	4	R 4 83-574 200 OHM	1	
C12	22-279 .03 MFD	4	R 5 83-584 200 OHM	1	
C13	22-627 .02 MFD	4	R 6 83-584 200 OHM	1	
C14	22-460 .008 MFD	4	R 7 83-584 200 OHM	1	
C15	22-470 .008 MFD	4	R 8 83-574 100 OHM	1	
C16	22-470 .008 MFD	4	R 9 83-574 100 OHM	1	
C17	22-954 .0095 MFD	4	R 10 63-711 220 M OHM	1	
C18	22-495 .02 MFD	4	R 11 63-711 220 M OHM	1	
C19	22-860 COMPENSATING COND	4	R 12 63-574 870 M OHM	1	
C21	22-938 DUAL OSC PADDER	1	R 13 63-1015	1	

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

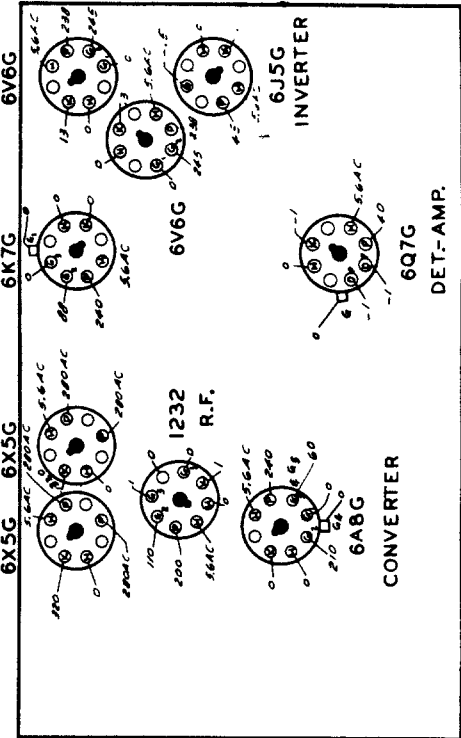
Models 10S443—10S452—10S464—10S470—10S491—10S492

CHASSIS No. 1005



NOTE - 13A LOW BASS
13B TREBLE
13C NORMAL
13E ALTO
13F BASS

BAND SWITCH SHOWN IN "POLICE" POSITION
DENOTES CHASSIS "GROUND"

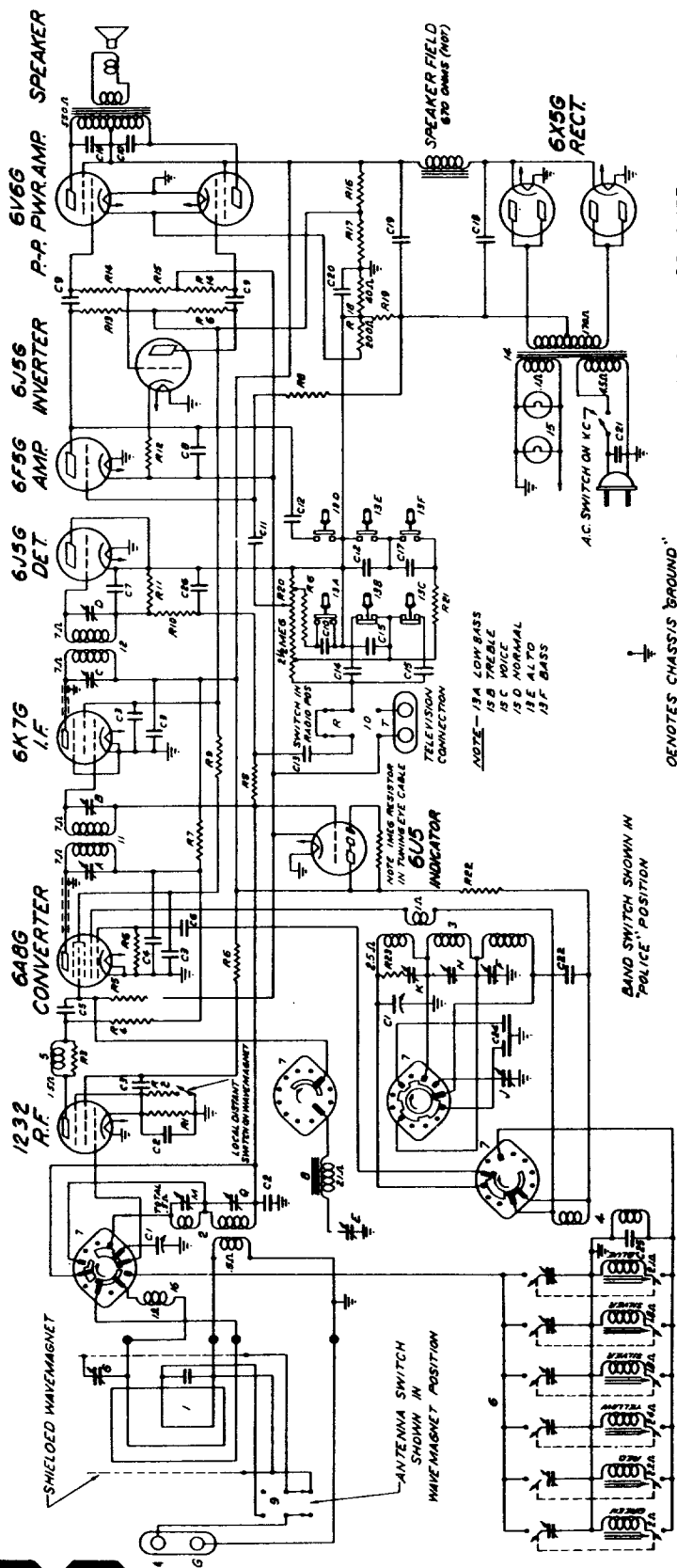


SOCKET NO.	TUBE PART NO.	DESCRIPTION	SOCKET NO.	TUBE PART NO.	DESCRIPTION
C1	22-277	2ND BAND WAVEMAGNET	C12	22-277	2ND BAND WAVEMAGNET
C2	22-277	2ND BAND WAVEMAGNET	C13	22-277	2ND BAND WAVEMAGNET
C3	22-277	2ND BAND WAVEMAGNET	C14	22-277	2ND BAND WAVEMAGNET
C4	22-277	2ND BAND WAVEMAGNET	C15	22-277	2ND BAND WAVEMAGNET
C5	22-277	2ND BAND WAVEMAGNET	C16	22-277	2ND BAND WAVEMAGNET
C6	22-277	2ND BAND WAVEMAGNET	C17	22-277	2ND BAND WAVEMAGNET
C7	22-277	2ND BAND WAVEMAGNET	C18	22-277	2ND BAND WAVEMAGNET
C8	22-277	2ND BAND WAVEMAGNET	C19	22-277	2ND BAND WAVEMAGNET
C9	22-277	2ND BAND WAVEMAGNET	C20	22-277	2ND BAND WAVEMAGNET
C10	22-277	2ND BAND WAVEMAGNET	C21	22-277	2ND BAND WAVEMAGNET
C11	22-277	2ND BAND WAVEMAGNET	C22	22-277	2ND BAND WAVEMAGNET
C12	22-277	2ND BAND WAVEMAGNET	C23	22-277	2ND BAND WAVEMAGNET
C13	22-277	2ND BAND WAVEMAGNET	C24	22-277	2ND BAND WAVEMAGNET
C14	22-277	2ND BAND WAVEMAGNET	C25	22-277	2ND BAND WAVEMAGNET
C15	22-277	2ND BAND WAVEMAGNET	C26	22-277	2ND BAND WAVEMAGNET
C16	22-277	2ND BAND WAVEMAGNET	C27	22-277	2ND BAND WAVEMAGNET
C17	22-277	2ND BAND WAVEMAGNET	C28	22-277	2ND BAND WAVEMAGNET
C18	22-277	2ND BAND WAVEMAGNET	C29	22-277	2ND BAND WAVEMAGNET
C19	22-277	2ND BAND WAVEMAGNET	C30	22-277	2ND BAND WAVEMAGNET
C20	22-277	2ND BAND WAVEMAGNET	C31	22-277	2ND BAND WAVEMAGNET
C21	22-277	2ND BAND WAVEMAGNET	C32	22-277	2ND BAND WAVEMAGNET
C22	22-277	2ND BAND WAVEMAGNET	C33	22-277	2ND BAND WAVEMAGNET
C23	22-277	2ND BAND WAVEMAGNET	C34	22-277	2ND BAND WAVEMAGNET
C24	22-277	2ND BAND WAVEMAGNET	C35	22-277	2ND BAND WAVEMAGNET
C25	22-277	2ND BAND WAVEMAGNET	C36	22-277	2ND BAND WAVEMAGNET
C26	22-277	2ND BAND WAVEMAGNET	C37	22-277	2ND BAND WAVEMAGNET
C27	22-277	2ND BAND WAVEMAGNET	C38	22-277	2ND BAND WAVEMAGNET
C28	22-277	2ND BAND WAVEMAGNET	C39	22-277	2ND BAND WAVEMAGNET
C29	22-277	2ND BAND WAVEMAGNET	C40	22-277	2ND BAND WAVEMAGNET
C30	22-277	2ND BAND WAVEMAGNET	C41	22-277	2ND BAND WAVEMAGNET
C31	22-277	2ND BAND WAVEMAGNET	C42	22-277	2ND BAND WAVEMAGNET
C32	22-277	2ND BAND WAVEMAGNET	C43	22-277	2ND BAND WAVEMAGNET
C33	22-277	2ND BAND WAVEMAGNET	C44	22-277	2ND BAND WAVEMAGNET
C34	22-277	2ND BAND WAVEMAGNET	C45	22-277	2ND BAND WAVEMAGNET
C35	22-277	2ND BAND WAVEMAGNET	C46	22-277	2ND BAND WAVEMAGNET
C36	22-277	2ND BAND WAVEMAGNET	C47	22-277	2ND BAND WAVEMAGNET
C37	22-277	2ND BAND WAVEMAGNET	C48	22-277	2ND BAND WAVEMAGNET
C38	22-277	2ND BAND WAVEMAGNET	C49	22-277	2ND BAND WAVEMAGNET
C39	22-277	2ND BAND WAVEMAGNET	C50	22-277	2ND BAND WAVEMAGNET
C40	22-277	2ND BAND WAVEMAGNET	C51	22-277	2ND BAND WAVEMAGNET
C41	22-277	2ND BAND WAVEMAGNET	C52	22-277	2ND BAND WAVEMAGNET
C42	22-277	2ND BAND WAVEMAGNET	C53	22-277	2ND BAND WAVEMAGNET
C43	22-277	2ND BAND WAVEMAGNET	C54	22-277	2ND BAND WAVEMAGNET
C44	22-277	2ND BAND WAVEMAGNET	C55	22-277	2ND BAND WAVEMAGNET
C45	22-277	2ND BAND WAVEMAGNET	C56	22-277	2ND BAND WAVEMAGNET
C46	22-277	2ND BAND WAVEMAGNET	C57	22-277	2ND BAND WAVEMAGNET
C47	22-277	2ND BAND WAVEMAGNET	C58	22-277	2ND BAND WAVEMAGNET
C48	22-277	2ND BAND WAVEMAGNET	C59	22-277	2ND BAND WAVEMAGNET
C49	22-277	2ND BAND WAVEMAGNET	C60	22-277	2ND BAND WAVEMAGNET
C50	22-277	2ND BAND WAVEMAGNET	C61	22-277	2ND BAND WAVEMAGNET
C51	22-277	2ND BAND WAVEMAGNET	C62	22-277	2ND BAND WAVEMAGNET
C52	22-277	2ND BAND WAVEMAGNET	C63	22-277	2ND BAND WAVEMAGNET
C53	22-277	2ND BAND WAVEMAGNET	C64	22-277	2ND BAND WAVEMAGNET
C54	22-277	2ND BAND WAVEMAGNET	C65	22-277	2ND BAND WAVEMAGNET
C55	22-277	2ND BAND WAVEMAGNET	C66	22-277	2ND BAND WAVEMAGNET
C56	22-277	2ND BAND WAVEMAGNET	C67	22-277	2ND BAND WAVEMAGNET
C57	22-277	2ND BAND WAVEMAGNET	C68	22-277	2ND BAND WAVEMAGNET
C58	22-277	2ND BAND WAVEMAGNET	C69	22-277	2ND BAND WAVEMAGNET
C59	22-277	2ND BAND WAVEMAGNET	C70	22-277	2ND BAND WAVEMAGNET
C60	22-277	2ND BAND WAVEMAGNET	C71	22-277	2ND BAND WAVEMAGNET
C61	22-277	2ND BAND WAVEMAGNET	C72	22-277	2ND BAND WAVEMAGNET
C62	22-277	2ND BAND WAVEMAGNET	C73	22-277	2ND BAND WAVEMAGNET
C63	22-277	2ND BAND WAVEMAGNET	C74	22-277	2ND BAND WAVEMAGNET
C64	22-277	2ND BAND WAVEMAGNET	C75	22-277	2ND BAND WAVEMAGNET
C65	22-277	2ND BAND WAVEMAGNET	C76	22-277	2ND BAND WAVEMAGNET
C66	22-277	2ND BAND WAVEMAGNET	C77	22-277	2ND BAND WAVEMAGNET
C67	22-277	2ND BAND WAVEMAGNET	C78	22-277	2ND BAND WAVEMAGNET
C68	22-277	2ND BAND WAVEMAGNET	C79	22-277	2ND BAND WAVEMAGNET
C69	22-277	2ND BAND WAVEMAGNET	C80	22-277	2ND BAND WAVEMAGNET
C70	22-277	2ND BAND WAVEMAGNET	C81	22-277	2ND BAND WAVEMAGNET
C71	22-277	2ND BAND WAVEMAGNET	C82	22-277	2ND BAND WAVEMAGNET
C72	22-277	2ND BAND WAVEMAGNET	C83	22-277	2ND BAND WAVEMAGNET
C73	22-277	2ND BAND WAVEMAGNET	C84	22-277	2ND BAND WAVEMAGNET
C74	22-277	2ND BAND WAVEMAGNET	C85	22-277	2ND BAND WAVEMAGNET
C75	22-277	2ND BAND WAVEMAGNET	C86	22-277	2ND BAND WAVEMAGNET
C76	22-277	2ND BAND WAVEMAGNET	C87	22-277	2ND BAND WAVEMAGNET
C77	22-277	2ND BAND WAVEMAGNET	C88	22-277	2ND BAND WAVEMAGNET
C78	22-277	2ND BAND WAVEMAGNET	C89	22-277	2ND BAND WAVEMAGNET
C79	22-277	2ND BAND WAVEMAGNET	C90	22-277	2ND BAND WAVEMAGNET
C80	22-277	2ND BAND WAVEMAGNET	C91	22-277	2ND BAND WAVEMAGNET
C81	22-277	2ND BAND WAVEMAGNET	C92	22-277	2ND BAND WAVEMAGNET
C82	22-277	2ND BAND WAVEMAGNET	C93	22-277	2ND BAND WAVEMAGNET
C83	22-277	2ND BAND WAVEMAGNET	C94	22-277	2ND BAND WAVEMAGNET
C84	22-277	2ND BAND WAVEMAGNET	C95	22-277	2ND BAND WAVEMAGNET
C85	22-277	2ND BAND WAVEMAGNET	C96	22-277	2ND BAND WAVEMAGNET
C86	22-277	2ND BAND WAVEMAGNET	C97	22-277	2ND BAND WAVEMAGNET
C87	22-277	2ND BAND WAVEMAGNET	C98	22-277	2ND BAND WAVEMAGNET
C88	22-277	2ND BAND WAVEMAGNET	C99	22-277	2ND BAND WAVEMAGNET
C89	22-277	2ND BAND WAVEMAGNET	C100	22-277	2ND BAND WAVEMAGNET

I.F. FREQUENCY 455 KC.
10 TUBE SUPERHETERODYNE
CHASSIS N°1005 AC 3 BAND
ZENITH RADIO CORPORATION

Socket Voltages
FRONT OF CHASSIS

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



MODEL 11S474 SPEAKER 49-352 12"

Model 11S474
Chassis No. 1103

I.F. FREQUENCY 455 KC.
11 TUBE SUPERHETERODYNE
CHASSIS NO. 1103 AC 3 BAND
ZENITH RADIO CORPORATION

DEMOTES CHASSIS GROUND

BAND SWITCH SHOWN IN "POLICE" POSITION

NOTE - 13A LOW BASS
15B TREBLE
15C VOICE
15D NORMAL
15E ALTO
15F BASS

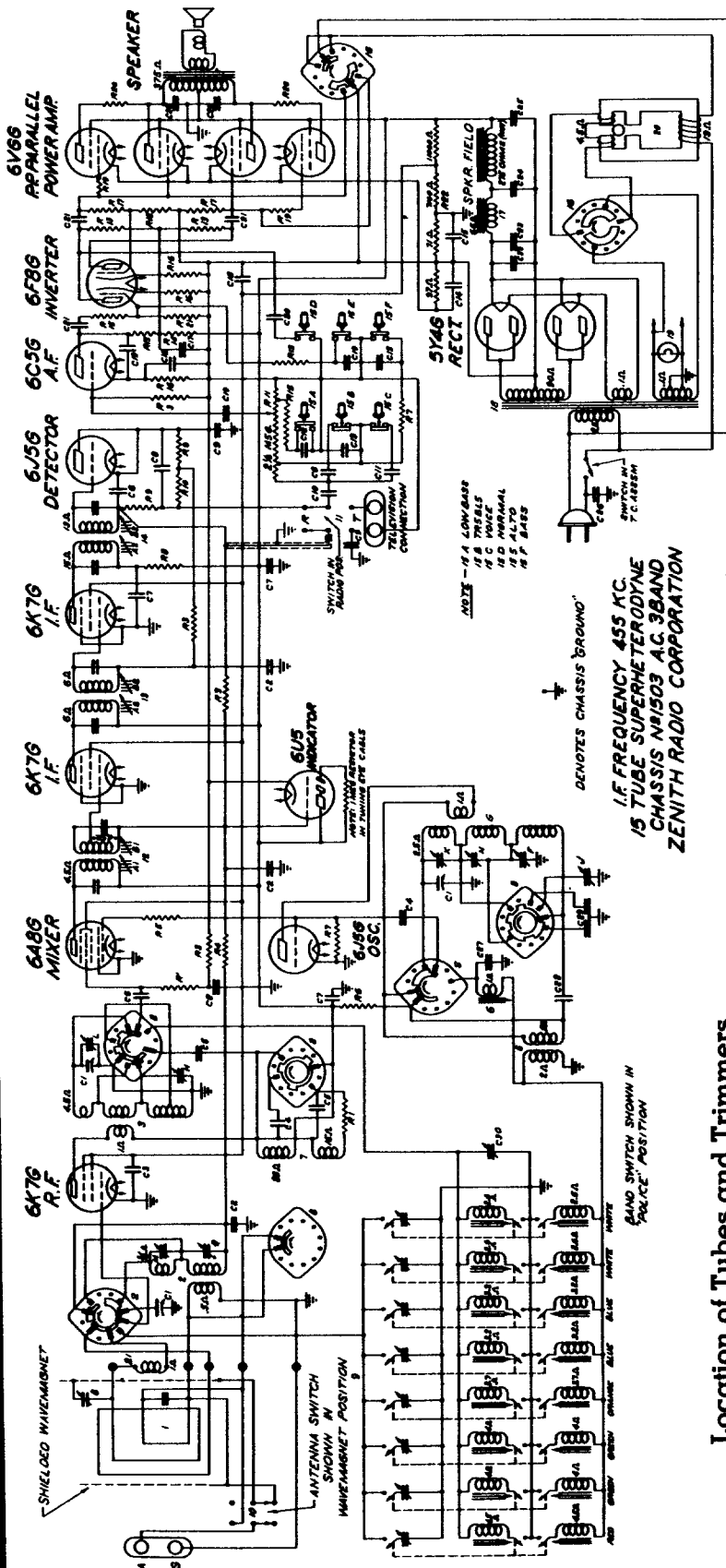
NOTE: 10K5 RESISTOR IN TUNING EYE CABLE

6U5 INDICATOR

LOCAL BATTERY SWITCH IN "ON" POSITION

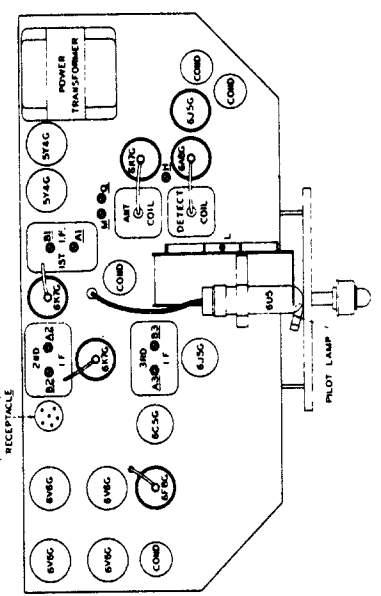
ANTENNA SWITCH SHOWN IN "WAVE MAGNET" POSITION

COIL NO.	TYPE	WAVELENGTH	DESCRIPTION	COIL NO.	TYPE	WAVELENGTH	DESCRIPTION
C1	22-220	1000	1000 MFD	12	12-120	1200	1200 MFD
C2	22-220	1000	1000 MFD	13	12-120	1200	1200 MFD
C3	22-220	1000	1000 MFD	14	12-120	1200	1200 MFD
C4	22-220	1000	1000 MFD	15	12-120	1200	1200 MFD
C5	22-220	1000	1000 MFD	16	12-120	1200	1200 MFD
C6	22-220	1000	1000 MFD	17	12-120	1200	1200 MFD
C7	22-220	1000	1000 MFD	18	12-120	1200	1200 MFD
C8	22-220	1000	1000 MFD	19	12-120	1200	1200 MFD
C9	22-220	1000	1000 MFD	20	12-120	1200	1200 MFD
C10	22-220	1000	1000 MFD	21	12-120	1200	1200 MFD
C11	22-220	1000	1000 MFD	22	12-120	1200	1200 MFD
C12	22-220	1000	1000 MFD	23	12-120	1200	1200 MFD
C13	22-220	1000	1000 MFD	24	12-120	1200	1200 MFD
C14	22-220	1000	1000 MFD	25	12-120	1200	1200 MFD
C15	22-220	1000	1000 MFD	26	12-120	1200	1200 MFD
C16	22-220	1000	1000 MFD	27	12-120	1200	1200 MFD
C17	22-220	1000	1000 MFD	28	12-120	1200	1200 MFD
C18	22-220	1000	1000 MFD	29	12-120	1200	1200 MFD
C19	22-220	1000	1000 MFD	30	12-120	1200	1200 MFD
C20	22-220	1000	1000 MFD	31	12-120	1200	1200 MFD
C21	22-220	1000	1000 MFD	32	12-120	1200	1200 MFD



**Models 15S479—15S495
Chassis No. 1503**

Location of Tubes and Trimmers



Part No.	Description	Part No.	Description	Part No.	Description
1	15S479	1	15S479	1	15S479
2	15S480	2	15S480	2	15S480
3	15S481	3	15S481	3	15S481
4	15S482	4	15S482	4	15S482
5	15S483	5	15S483	5	15S483
6	15S484	6	15S484	6	15S484
7	15S485	7	15S485	7	15S485
8	15S486	8	15S486	8	15S486
9	15S487	9	15S487	9	15S487
10	15S488	10	15S488	10	15S488
11	15S489	11	15S489	11	15S489
12	15S490	12	15S490	12	15S490
13	15S491	13	15S491	13	15S491
14	15S492	14	15S492	14	15S492
15	15S493	15	15S493	15	15S493
16	15S494	16	15S494	16	15S494
17	15S495	17	15S495	17	15S495
18	15S496	18	15S496	18	15S496
19	15S497	19	15S497	19	15S497
20	15S498	20	15S498	20	15S498
21	15S499	21	15S499	21	15S499
22	15S500	22	15S500	22	15S500
23	15S501	23	15S501	23	15S501
24	15S502	24	15S502	24	15S502
25	15S503	25	15S503	25	15S503
26	15S504	26	15S504	26	15S504
27	15S505	27	15S505	27	15S505
28	15S506	28	15S506	28	15S506
29	15S507	29	15S507	29	15S507
30	15S508	30	15S508	30	15S508
31	15S509	31	15S509	31	15S509
32	15S510	32	15S510	32	15S510
33	15S511	33	15S511	33	15S511
34	15S512	34	15S512	34	15S512
35	15S513	35	15S513	35	15S513
36	15S514	36	15S514	36	15S514
37	15S515	37	15S515	37	15S515
38	15S516	38	15S516	38	15S516
39	15S517	39	15S517	39	15S517
40	15S518	40	15S518	40	15S518
41	15S519	41	15S519	41	15S519
42	15S520	42	15S520	42	15S520
43	15S521	43	15S521	43	15S521
44	15S522	44	15S522	44	15S522
45	15S523	45	15S523	45	15S523
46	15S524	46	15S524	46	15S524
47	15S525	47	15S525	47	15S525
48	15S526	48	15S526	48	15S526
49	15S527	49	15S527	49	15S527
50	15S528	50	15S528	50	15S528

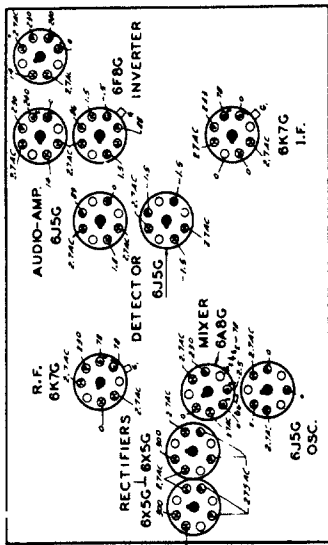
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

ZENITH RADIO CORPORATION

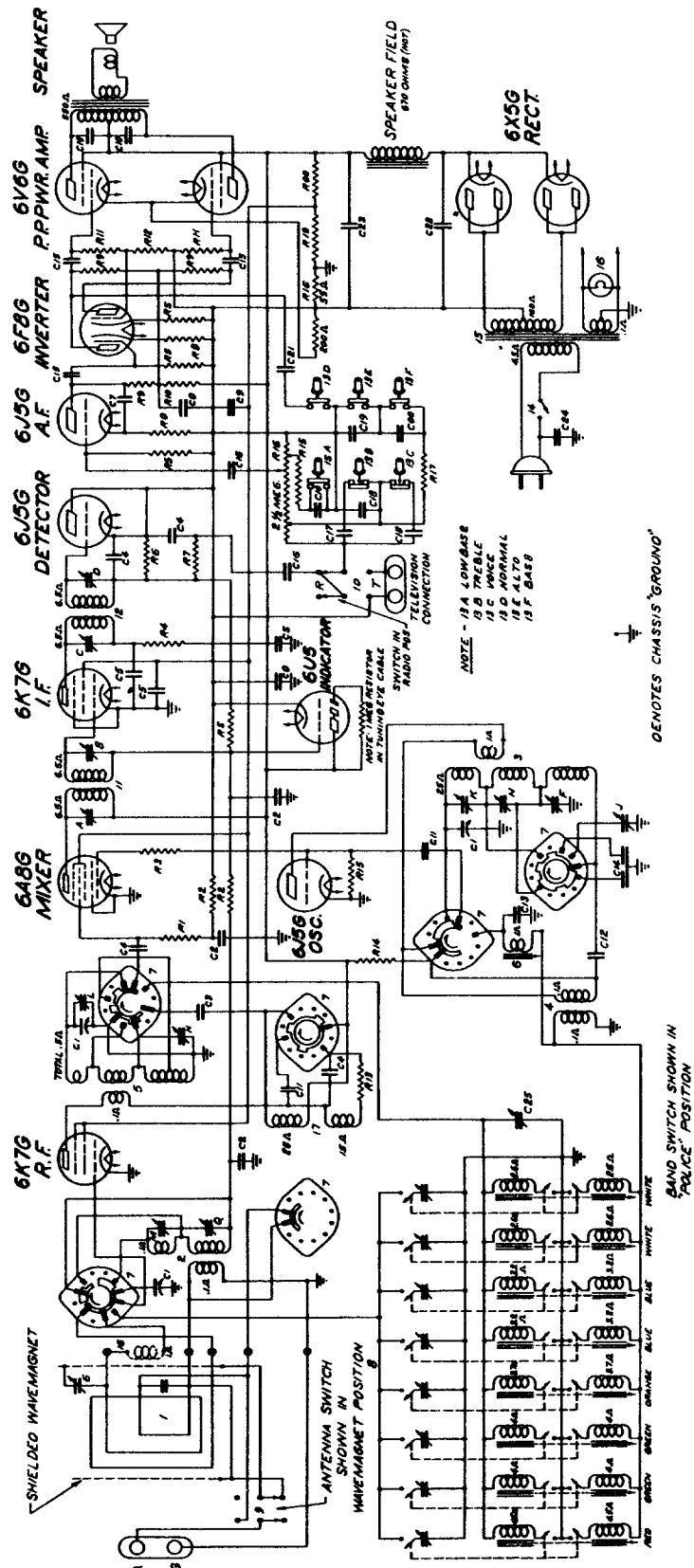
Models 12S445—12S453—12S471—12S475—12S494

CHASSIS No. 1207

TYPE	PART NO.	DESCRIPTION	TYPE	PART NO.	DESCRIPTION	TYPE	PART NO.	DESCRIPTION
C1	22-50	THREE BAND VARIABLE	6A5	6A5	5Y39	WHOLEMANT ASSEMBLY	1	12 I.F. TRANS. (P1)
C2	22-50	50 MFD.	6B6	6B6	6B6	ANTENNA COIL ASSEMBLY	2	12 I.F. SEC
C3	22-50	50 MFD.	6B7	6B7	6B7	ANTENNA COIL ASSEMBLY	3	12 I.F. SEC
C4	22-50	50 MFD.	6B8	6B8	6B8	OSC. COIL ASSEMBLY	4	12 I.F. SEC
C5	22-50	50 MFD.	6B9	6B9	6B9	OSC. COIL ASSEMBLY	5	12 I.F. SEC
C6	22-50	50 MFD.	6B10	6B10	6B10	OSC. COIL ASSEMBLY	6	12 I.F. SEC
C7	22-50	50 MFD.	6B11	6B11	6B11	OSC. COIL ASSEMBLY	7	12 I.F. SEC
C8	22-50	50 MFD.	6B12	6B12	6B12	OSC. COIL ASSEMBLY	8	12 I.F. SEC
C9	22-50	50 MFD.	6B13	6B13	6B13	OSC. COIL ASSEMBLY	9	12 I.F. SEC
C10	22-50	50 MFD.	6B14	6B14	6B14	OSC. COIL ASSEMBLY	10	12 I.F. SEC
C11	22-50	50 MFD.	6B15	6B15	6B15	OSC. COIL ASSEMBLY	11	12 I.F. SEC
C12	22-50	50 MFD.	6B16	6B16	6B16	OSC. COIL ASSEMBLY	12	12 I.F. SEC
C13	22-50	50 MFD.	6B17	6B17	6B17	OSC. COIL ASSEMBLY	13	12 I.F. SEC
C14	22-50	50 MFD.	6B18	6B18	6B18	OSC. COIL ASSEMBLY	14	12 I.F. SEC
C15	22-50	50 MFD.	6B19	6B19	6B19	OSC. COIL ASSEMBLY	15	12 I.F. SEC
C16	22-50	50 MFD.	6B20	6B20	6B20	OSC. COIL ASSEMBLY	16	12 I.F. SEC
C17	22-50	50 MFD.	6B21	6B21	6B21	OSC. COIL ASSEMBLY	17	12 I.F. SEC
C18	22-50	50 MFD.	6B22	6B22	6B22	OSC. COIL ASSEMBLY	18	12 I.F. SEC
C19	22-50	50 MFD.	6B23	6B23	6B23	OSC. COIL ASSEMBLY	19	12 I.F. SEC
C20	22-50	50 MFD.	6B24	6B24	6B24	OSC. COIL ASSEMBLY	20	12 I.F. SEC
C21	22-50	50 MFD.	6B25	6B25	6B25	OSC. COIL ASSEMBLY	21	12 I.F. SEC
C22	22-50	50 MFD.	6B26	6B26	6B26	OSC. COIL ASSEMBLY	22	12 I.F. SEC
C23	22-50	50 MFD.	6B27	6B27	6B27	OSC. COIL ASSEMBLY	23	12 I.F. SEC
C24	22-50	50 MFD.	6B28	6B28	6B28	OSC. COIL ASSEMBLY	24	12 I.F. SEC
C25	22-50	50 MFD.	6B29	6B29	6B29	OSC. COIL ASSEMBLY	25	12 I.F. SEC
C26	22-50	50 MFD.	6B30	6B30	6B30	OSC. COIL ASSEMBLY	26	12 I.F. SEC
C27	22-50	50 MFD.	6B31	6B31	6B31	OSC. COIL ASSEMBLY	27	12 I.F. SEC
C28	22-50	50 MFD.	6B32	6B32	6B32	OSC. COIL ASSEMBLY	28	12 I.F. SEC
C29	22-50	50 MFD.	6B33	6B33	6B33	OSC. COIL ASSEMBLY	29	12 I.F. SEC
C30	22-50	50 MFD.	6B34	6B34	6B34	OSC. COIL ASSEMBLY	30	12 I.F. SEC
C31	22-50	50 MFD.	6B35	6B35	6B35	OSC. COIL ASSEMBLY	31	12 I.F. SEC
C32	22-50	50 MFD.	6B36	6B36	6B36	OSC. COIL ASSEMBLY	32	12 I.F. SEC
C33	22-50	50 MFD.	6B37	6B37	6B37	OSC. COIL ASSEMBLY	33	12 I.F. SEC
C34	22-50	50 MFD.	6B38	6B38	6B38	OSC. COIL ASSEMBLY	34	12 I.F. SEC
C35	22-50	50 MFD.	6B39	6B39	6B39	OSC. COIL ASSEMBLY	35	12 I.F. SEC
C36	22-50	50 MFD.	6B40	6B40	6B40	OSC. COIL ASSEMBLY	36	12 I.F. SEC
C37	22-50	50 MFD.	6B41	6B41	6B41	OSC. COIL ASSEMBLY	37	12 I.F. SEC
C38	22-50	50 MFD.	6B42	6B42	6B42	OSC. COIL ASSEMBLY	38	12 I.F. SEC
C39	22-50	50 MFD.	6B43	6B43	6B43	OSC. COIL ASSEMBLY	39	12 I.F. SEC
C40	22-50	50 MFD.	6B44	6B44	6B44	OSC. COIL ASSEMBLY	40	12 I.F. SEC
C41	22-50	50 MFD.	6B45	6B45	6B45	OSC. COIL ASSEMBLY	41	12 I.F. SEC
C42	22-50	50 MFD.	6B46	6B46	6B46	OSC. COIL ASSEMBLY	42	12 I.F. SEC
C43	22-50	50 MFD.	6B47	6B47	6B47	OSC. COIL ASSEMBLY	43	12 I.F. SEC
C44	22-50	50 MFD.	6B48	6B48	6B48	OSC. COIL ASSEMBLY	44	12 I.F. SEC
C45	22-50	50 MFD.	6B49	6B49	6B49	OSC. COIL ASSEMBLY	45	12 I.F. SEC
C46	22-50	50 MFD.	6B50	6B50	6B50	OSC. COIL ASSEMBLY	46	12 I.F. SEC
C47	22-50	50 MFD.	6B51	6B51	6B51	OSC. COIL ASSEMBLY	47	12 I.F. SEC
C48	22-50	50 MFD.	6B52	6B52	6B52	OSC. COIL ASSEMBLY	48	12 I.F. SEC
C49	22-50	50 MFD.	6B53	6B53	6B53	OSC. COIL ASSEMBLY	49	12 I.F. SEC
C50	22-50	50 MFD.	6B54	6B54	6B54	OSC. COIL ASSEMBLY	50	12 I.F. SEC
C51	22-50	50 MFD.	6B55	6B55	6B55	OSC. COIL ASSEMBLY	51	12 I.F. SEC
C52	22-50	50 MFD.	6B56	6B56	6B56	OSC. COIL ASSEMBLY	52	12 I.F. SEC
C53	22-50	50 MFD.	6B57	6B57	6B57	OSC. COIL ASSEMBLY	53	12 I.F. SEC
C54	22-50	50 MFD.	6B58	6B58	6B58	OSC. COIL ASSEMBLY	54	12 I.F. SEC
C55	22-50	50 MFD.	6B59	6B59	6B59	OSC. COIL ASSEMBLY	55	12 I.F. SEC
C56	22-50	50 MFD.	6B60	6B60	6B60	OSC. COIL ASSEMBLY	56	12 I.F. SEC
C57	22-50	50 MFD.	6B61	6B61	6B61	OSC. COIL ASSEMBLY	57	12 I.F. SEC
C58	22-50	50 MFD.	6B62	6B62	6B62	OSC. COIL ASSEMBLY	58	12 I.F. SEC
C59	22-50	50 MFD.	6B63	6B63	6B63	OSC. COIL ASSEMBLY	59	12 I.F. SEC
C60	22-50	50 MFD.	6B64	6B64	6B64	OSC. COIL ASSEMBLY	60	12 I.F. SEC
C61	22-50	50 MFD.	6B65	6B65	6B65	OSC. COIL ASSEMBLY	61	12 I.F. SEC
C62	22-50	50 MFD.	6B66	6B66	6B66	OSC. COIL ASSEMBLY	62	12 I.F. SEC
C63	22-50	50 MFD.	6B67	6B67	6B67	OSC. COIL ASSEMBLY	63	12 I.F. SEC
C64	22-50	50 MFD.	6B68	6B68	6B68	OSC. COIL ASSEMBLY	64	12 I.F. SEC
C65	22-50	50 MFD.	6B69	6B69	6B69	OSC. COIL ASSEMBLY	65	12 I.F. SEC
C66	22-50	50 MFD.	6B70	6B70	6B70	OSC. COIL ASSEMBLY	66	12 I.F. SEC
C67	22-50	50 MFD.	6B71	6B71	6B71	OSC. COIL ASSEMBLY	67	12 I.F. SEC
C68	22-50	50 MFD.	6B72	6B72	6B72	OSC. COIL ASSEMBLY	68	12 I.F. SEC
C69	22-50	50 MFD.	6B73	6B73	6B73	OSC. COIL ASSEMBLY	69	12 I.F. SEC
C70	22-50	50 MFD.	6B74	6B74	6B74	OSC. COIL ASSEMBLY	70	12 I.F. SEC
C71	22-50	50 MFD.	6B75	6B75	6B75	OSC. COIL ASSEMBLY	71	12 I.F. SEC
C72	22-50	50 MFD.	6B76	6B76	6B76	OSC. COIL ASSEMBLY	72	12 I.F. SEC
C73	22-50	50 MFD.	6B77	6B77	6B77	OSC. COIL ASSEMBLY	73	12 I.F. SEC
C74	22-50	50 MFD.	6B78	6B78	6B78	OSC. COIL ASSEMBLY	74	12 I.F. SEC
C75	22-50	50 MFD.	6B79	6B79	6B79	OSC. COIL ASSEMBLY	75	12 I.F. SEC
C76	22-50	50 MFD.	6B80	6B80	6B80	OSC. COIL ASSEMBLY	76	12 I.F. SEC
C77	22-50	50 MFD.	6B81	6B81	6B81	OSC. COIL ASSEMBLY	77	12 I.F. SEC
C78	22-50	50 MFD.	6B82	6B82	6B82	OSC. COIL ASSEMBLY	78	12 I.F. SEC
C79	22-50	50 MFD.	6B83	6B83	6B83	OSC. COIL ASSEMBLY	79	12 I.F. SEC
C80	22-50	50 MFD.	6B84	6B84	6B84	OSC. COIL ASSEMBLY	80	12 I.F. SEC
C81	22-50	50 MFD.	6B85	6B85	6B85	OSC. COIL ASSEMBLY	81	12 I.F. SEC
C82	22-50	50 MFD.	6B86	6B86	6B86	OSC. COIL ASSEMBLY	82	12 I.F. SEC
C83	22-50	50 MFD.	6B87	6B87	6B87	OSC. COIL ASSEMBLY	83	12 I.F. SEC
C84	22-50	50 MFD.	6B88	6B88	6B88	OSC. COIL ASSEMBLY	84	12 I.F. SEC
C85	22-50	50 MFD.	6B89	6B89	6B89	OSC. COIL ASSEMBLY	85	12 I.F. SEC
C86	22-50	50 MFD.	6B90	6B90	6B90	OSC. COIL ASSEMBLY	86	12 I.F. SEC
C87	22-50	50 MFD.	6B91	6B91	6B91	OSC. COIL ASSEMBLY	87	12 I.F. SEC
C88	22-50	50 MFD.	6B92	6B92	6B92	OSC. COIL ASSEMBLY	88	12 I.F. SEC
C89	22-50	50 MFD.	6B93	6B93	6B93	OSC. COIL ASSEMBLY	89	12 I.F. SEC
C90	22-50	50 MFD.	6B94	6B94	6B94	OSC. COIL ASSEMBLY	90	12 I.F. SEC
C91	22-50	50 MFD.	6B95	6B95	6B95	OSC. COIL ASSEMBLY	91	12 I.F. SEC
C92	22-50	50 MFD.	6B96	6B96	6B96	OSC. COIL ASSEMBLY	92	12 I.F. SEC
C93	22-50	50 MFD.	6B97	6B97	6B97	OSC. COIL ASSEMBLY	93	12 I.F. SEC
C94	22-50	50 MFD.	6B98	6B98	6B98	OSC. COIL ASSEMBLY	94	12 I.F. SEC
C95	22-50	50 MFD.	6B99	6B99	6B99	OSC. COIL ASSEMBLY	95	12 I.F. SEC
C96	22-50	50 MFD.	6B100	6B100	6B100	OSC. COIL ASSEMBLY	96	12 I.F. SEC
C97	22-50	50 MFD.	6B101	6B101	6B101	OSC. COIL ASSEMBLY	97	12 I.F. SEC
C98	22-50	50 MFD.	6B102	6B102	6B102	OSC. COIL ASSEMBLY	98	12 I.F. SEC
C99	22-50	50 MFD.	6B103	6B103	6B103	OSC. COIL ASSEMBLY	99	12 I.F. SEC
C100	22-50	50 MFD.	6B104	6B104	6B104	OSC. COIL ASSEMBLY	100	12 I.F. SEC



FRONT OF CHASSIS

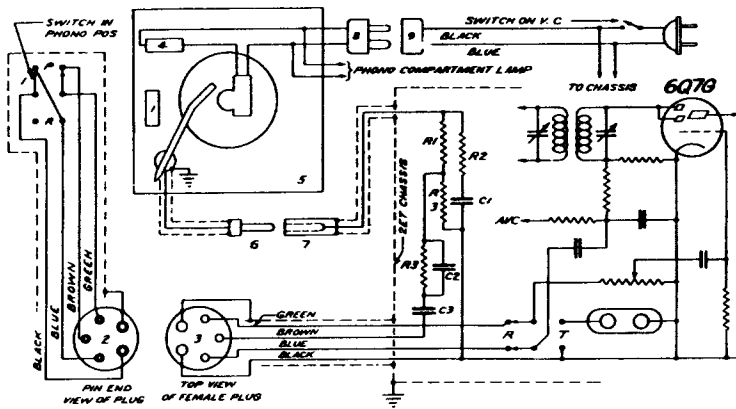


NOTE - 12 A LOW-BASE
12 B UNCLE
12 C NORMAL
12 D ALTO
12 E BASE

DEMOTES CHASSIS "GROUND"

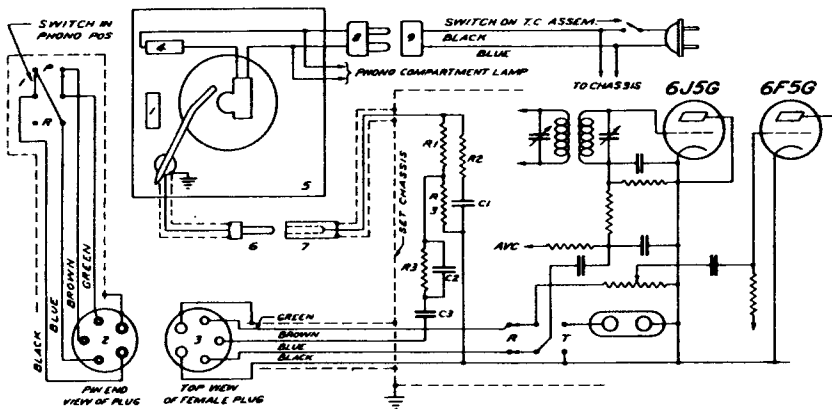
BAND SWITCH SHOWN IN "POLICE" POSITION

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



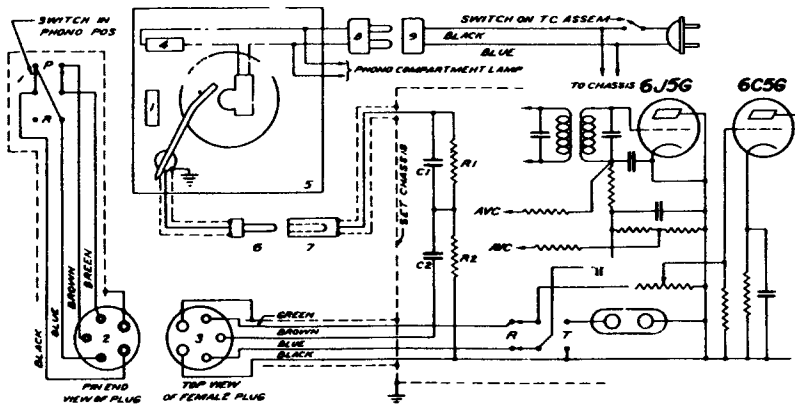
QTAG NO.	PART NO.	DESCRIPTION	
C1	22-319	.005 MFD.	100K
C2	22-354	.00035 MFD.	100K
C3	22-887	.001 MFD.	600K
R1	63-719	470M OHM	1/4W
R2	63-649	56M OHM	1/4W
R3	63-271	1 MEG OHM	1/4W
1	57224	PHONO SW. WIRE ASSEMBLY	
2	58070	PLUG & WIRE ASSEMBLY	
4	85-191	A.C. SWITCH	
5	89-36	WEBSTER AUTOMATIC RECORD PLAYER	
6		CINCH "M"-33 PLUG	
7	58069	RECEPTACLE WIRE ASSEM. CINCH "M"-E1 PLUG WITH P-7002 CAP & LINER	
8			
9	58068	PLUG & WIRE ASSEMBLY	

PHONO CIRCUIT DATA
MODEL SPEAKER
10S491 49-356 15"
10S492 49-352 12"
CHASSIS N#1007



QTAG NO.	PART NO.	DESCRIPTION	
C1	22-319	.005 MFD.	100K
C2	22-354	.00035 MFD.	100K
C3	22-887	.001 MFD.	600K
R1	63-719	470M OHM	1/4W
R2	63-649	56M OHM	1/4W
R3	63-271	1 MEG OHM	1/4W
1	57224	PHONO SW. WIRE ASSEMBLY	
2	58094	PLUG & WIRE ASSEMBLY	
4	85-191	A.C. SWITCH	
5	89-36	WEBSTER AUTOMATIC RECORD PLAYER	
6		CINCH "M"-33 PLUG	
7	58093	RECEPTACLE WIRE ASSEM. CINCH "M"-E1 PLUG WITH P-7002 CAP & LINER	
8			
9	58092	PLUG & WIRE ASSEMBLY	

PHONO CIRCUIT DATA
MODEL SPEAKER
12S494 49-355 15"
CHASSIS N#1208

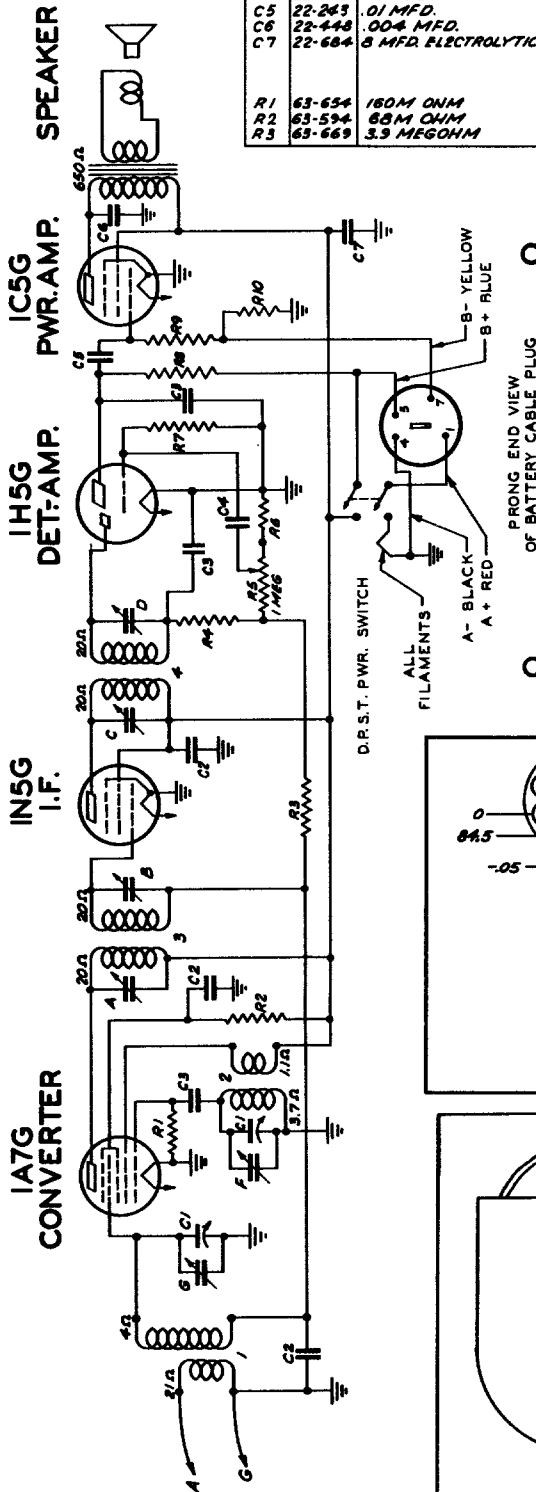


QTAG NO.	PART NO.	DESCRIPTION	
C1	22-182	.00025 MFD.	100K
C2	22-887	.001 MFD.	600K
R1	63-597	470M OHM	1/4W
R2	63-649	56M OHM	1/4W
1	57224	PHONO SW. WIRE ASSEMBLY	
2	58088	PLUG & WIRE ASSEMBLY	
4	85-191	A.C. SWITCH	
5	89-36	WEBSTER AUTOMATIC RECORD PLAYER	
6		CINCH "M"-33 PLUG	
7	58107	RECEPTACLE WIRE ASSEM. CINCH "M"-E1 PLUG WITH P-7002 CAP & LINER	
8			
9	58106	PLUG & WIRE ASSEMBLY	

PHONO CIRCUIT DATA
MODEL SPEAKER
15S495 49-375 15"
CHASSIS N#1504

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

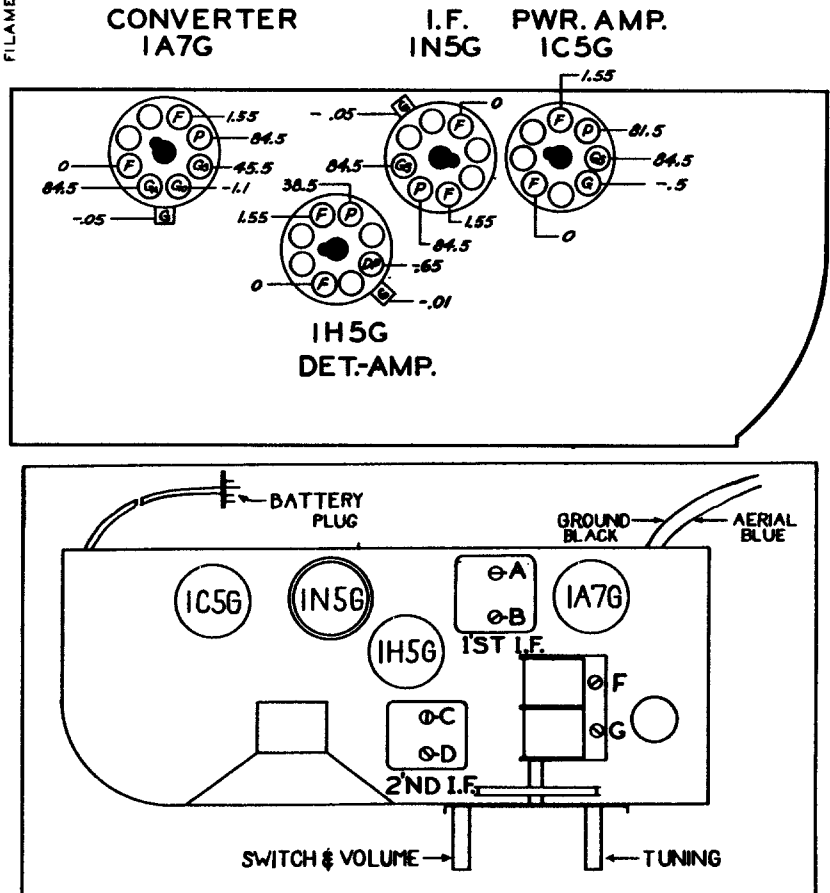
DIAG. N ^o	PART. N ^o	DESCRIPTION	DIAG. N ^o	PART. N ^o	DESCRIPTION	DIAG. N ^o	PART. N ^o	DESCRIPTION
C 1	22-825	TWO GANG VARIABLE	A 4	63-593	47M OHM	A	95-590	2ND I.F. TRANS. ASSEM.
C 2	22-829	.05 MFD.	A 5	63-1072	VOLUME CONTROL			
C 3	22-162	.0001 MFD.	A 6	63-587	4700 OHM			
C 4	22-826	.01 MFD.	A 7	63-976	15 MEGOHM			
C 5	22-243	.01 MFD.	A 8	63-271	1 MEGOHM			
C 6	22-448	.004 MFD.	A 9	63-600	8.2 MEGOHM			
C 7	22-684	5 MFD. ELECTROLYTIC	A 10	63-238	1000 OHM			
R 1	63-654	150M OHM	1	20-208	ANTENNA COIL			
R 2	63-594	6.8M OHM	2	3-7815	OSCILLATOR COIL ASSEM.			
R 3	63-669	3.3 MEGOHM	3	95-589	1ST I.F. TRANS. ASSEM.			



I.F. FREQUENCY 455 KC.
 4 TUBE SUPERHETERODYNE
 CHASSIS N^o 4A02 & 4A04-1½ V. SINGLE BAND
 ZENITH RADIO CORPORATION

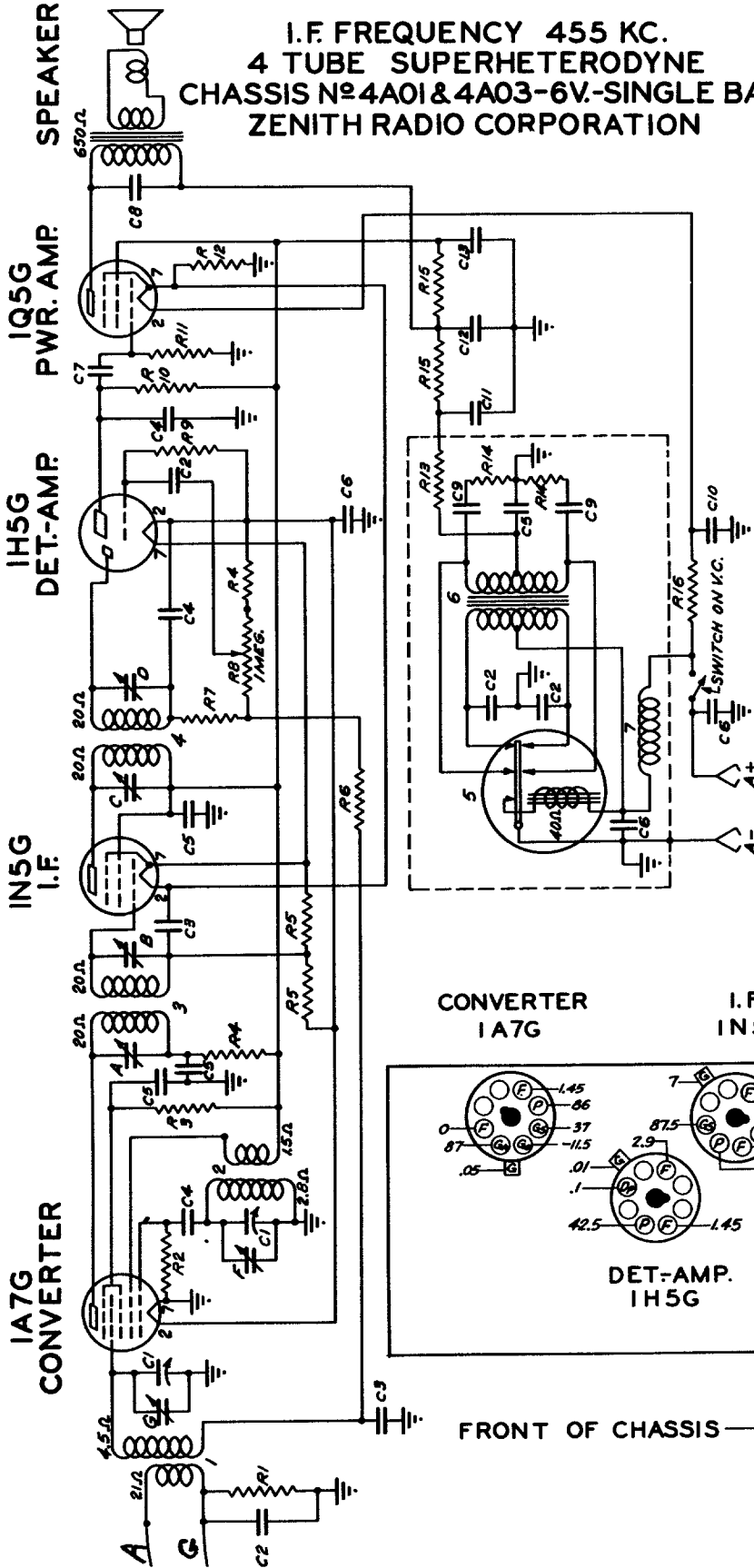
All voltages measured with a 1000 ohm per volt meter from chassis to socket contacts using a fresh Z28 battery pack.

Antenna disconnected — volume control full on.

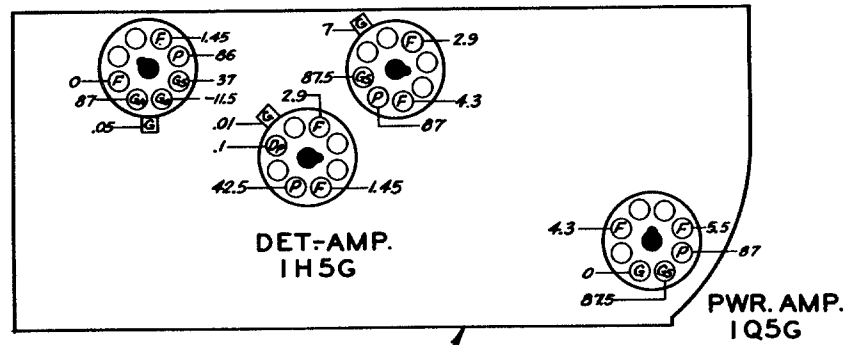


MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

I.F. FREQUENCY 455 KC.
 4 TUBE SUPERHETERODYNE
 CHASSIS N^o 4A01 & 4A03-6V.-SINGLE BAND
 ZENITH RADIO CORPORATION

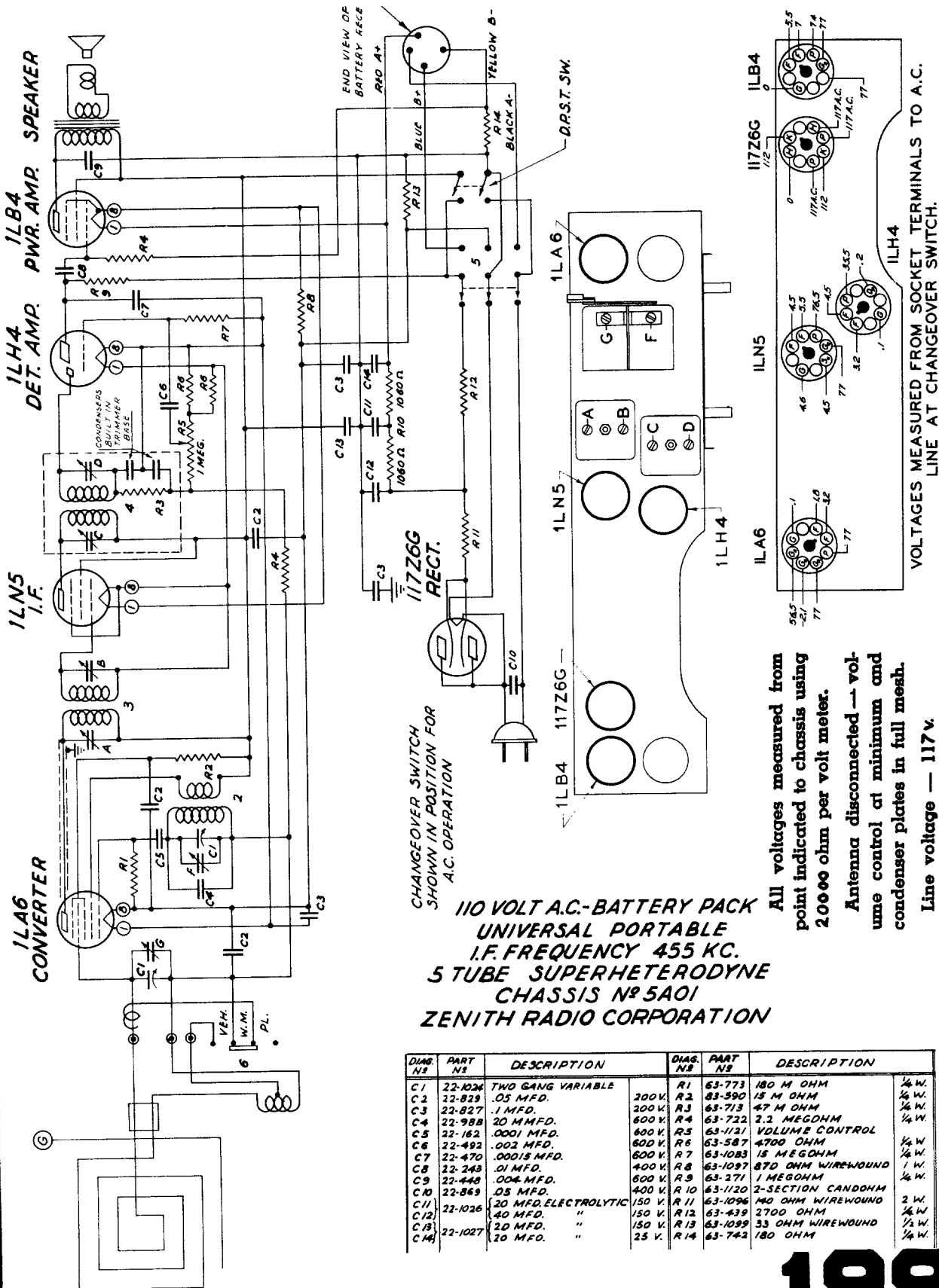


DIAG. No.	PART No.	DESCRIPTION	DIAG. No.	PART No.	DESCRIPTION
C1	22-595	TWO GANG VARIABLE	R2	63-595	100M OHM
C2	22-826	.01 MFD.	R3	63-594	68M OHM
C3	22-989	.05 MFD.	R4	63-583	100M OHM
C4	22-168	.0001 MFD.	R5	63-296	220M OHM
C5	22-828	.05 MFD.	R6	63-569	3.9 MEGOHM
C6	22-199	.5 MFD.	R7	63-593	17M OHM
C7	22-243	.01 MFD.	R8	63-1079	VOLUME CONTROL
C8	22-148	.04 MFD.	R9	63-976	15 MEGOHM
C9	22-961	500MFD. ELECTROLYTIC	R10	63-271	1 MEGOHM
C10	22-961	500MFD. ELECTROLYTIC	R11	63-600	2.2 MEGOHM
C11	22-742	15MFD. ELECTROLYTIC	R12	63-1060	90OHM WIREWOUND
C12	22-742	10MFD. ELECTROLYTIC	R13	63-577	100 OHM
C13			R14	63-697	100 OHM
			R15	63-605	1000 OHM
			R16	63-1061	7 OHM
R1	63-597	470M OHM			



FRONT OF CHASSIS

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



CHANGEOVER SWITCH SHOWN IN POSITION FOR A.C. OPERATION

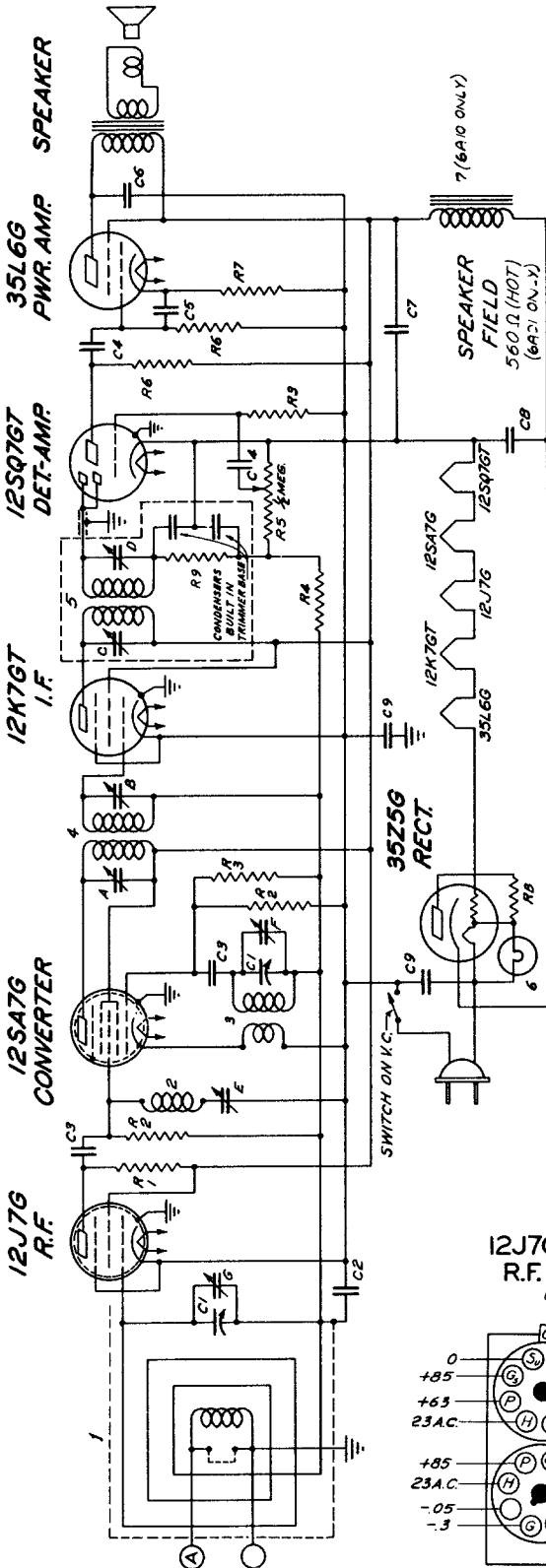
110 VOLT A.C.-BATTERY PACK
 UNIVERSAL PORTABLE
 I.F. FREQUENCY 455 KC.
 5 TUBE SUPERHETERODYNE
 CHASSIS NO 5A01
 ZENITH RADIO CORPORATION

All voltages measured from point indicated to chassis using 20000 ohm per volt meter.
 Antenna disconnected — volume control at minimum and condenser plates in full mesh.
 Line voltage — 117v.

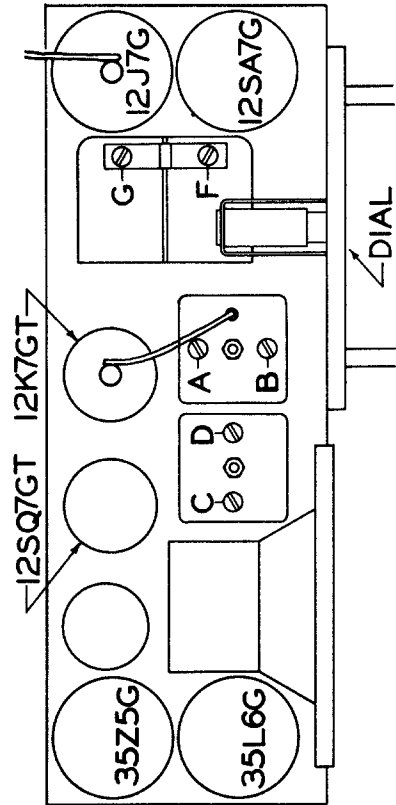
DIAG. NO.	PART NO.	DESCRIPTION	DIAG. NO.	PART NO.	DESCRIPTION	
C1	22-1024	TWO GANG VARIABLE	R1	63-773	180 M OHM	1/4 W.
C2	22-829	.05 MFD.	200V. R2	83-590	15 M OHM	1/4 W.
C3	22-827	.1 MFD.	200V. R3	63-713	47 M OHM	1/4 W.
C4	22-988	20 MMF.D.	600V. R4	63-722	2.2 MEGOHM	1/4 W.
C5	22-162	.0001 MFD.	600V. R5	63-1121	VOLUME CONTROL	
C6	22-492	.002 MFD.	600V. R6	63-587	4700 OHM	1/4 W.
C7	22-470	.00015 MFD.	600V. R7	63-1083	15 MEGOHM	1/4 W.
C8	22-243	.01 MFD.	400V. R8	63-1097	870 OHM WIREWOUND	1/4 W.
C9	22-448	.004 MFD.	600V. R9	63-271	1 MEGOHM	1/4 W.
C10	22-869	.004 MFD.	400V. R10	63-1120	2-SECTION CANDOHM	
C11	22-1026	20 MFD. ELECTROLYTIC	150 V. R11	63-1096	140 OHM WIREWOUND	2 W.
C12	22-1026	40 MFD. "	150 V. R12	63-439	2700 OHM	1/4 W.
C13	22-1027	20 MFD. "	150 V. R13	63-1099	33 OHM WIREWOUND	1/4 W.
C14	22-1027	20 MFD. "	25 V. R14	63-742	180 OHM	1/4 W.

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

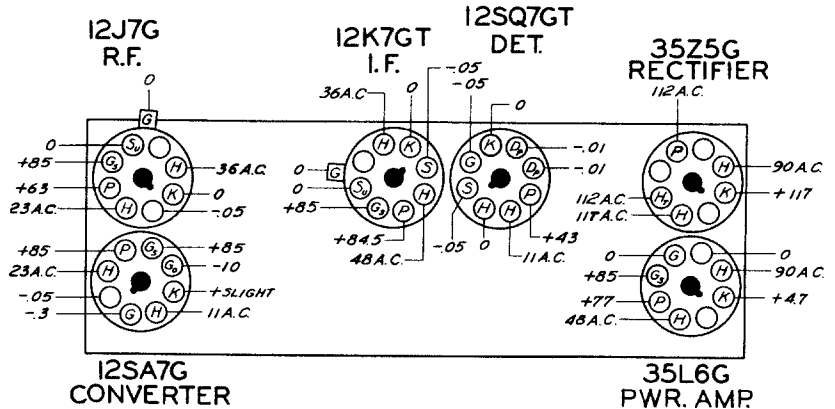
I.F. FREQUENCY 455 KC.
 6 TUBE SUPERHETERODYNE
 CHASSIS NO 6A01 & NO 6A10 A.C.-D.C.
 ZENITH RADIO CORPORATION



PART NO.	DESCRIPTION	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
C1	22-1008 TWO-GANG VARIABLE	R2	63-581 23M OHM	S2856	OSC COIL ASSEMBLY
C2	22-289 .05 MFD.	R3	63-1081 15 MEGOHM	95-695	250 I.F. TRANS.
C3	22-162 .001 MFD.	R4	63-600 22 MEGOHM	95-697	250 I.F. TRANS.
C4	22-243 .01 MFD.	R5	63-1112 VOLUME CONTROL	181-17	FILTER LIGHT BULB .05A
C5	22-854 .0005 MFD.	R6	63-597 470M OHM WIREWOUND	95-713	FILTER CHOKLE (300MRES)
C6	22-1049 .03 MFD.	R7	63-586 150 OHM WIREWOUND		
C7	22-1014 .20 MFD. ELECTROLYTIC	R8	63-1023 22 OHM WIREWOUND	A	181 I.F. TRANS. PRI.
C8	22-1017 .02 MFD.	R9	63-713 47M OHM	B	181 I.F. TRANS. SEC.
C9				C	250 I.F. TRANS. PRI.
R1	63-589 10M OHM			D	250 I.F. TRANS. SEC.
		1	WAVEMAGNET ASSEMBLY	E	181 I.F. TRANS. SEC.
		2	WAVE TRAP COIL ASSEMBLY	F	250 I.F. TRANS. PRI.
				G	250 I.F. TRANS. SEC.



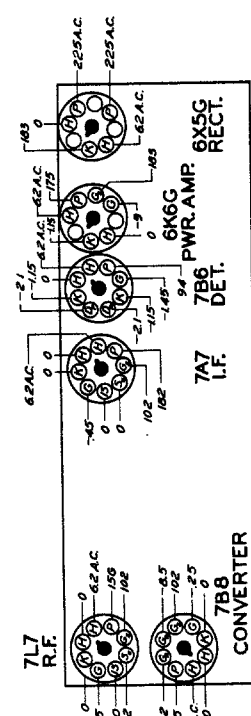
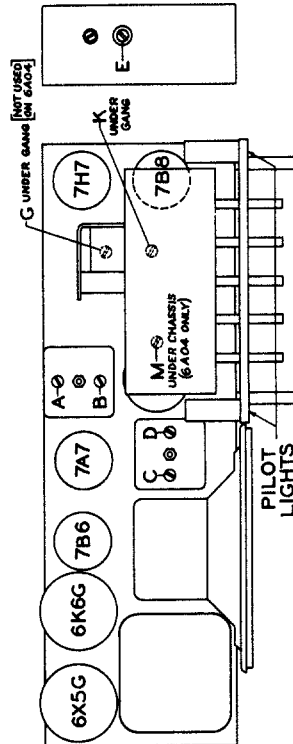
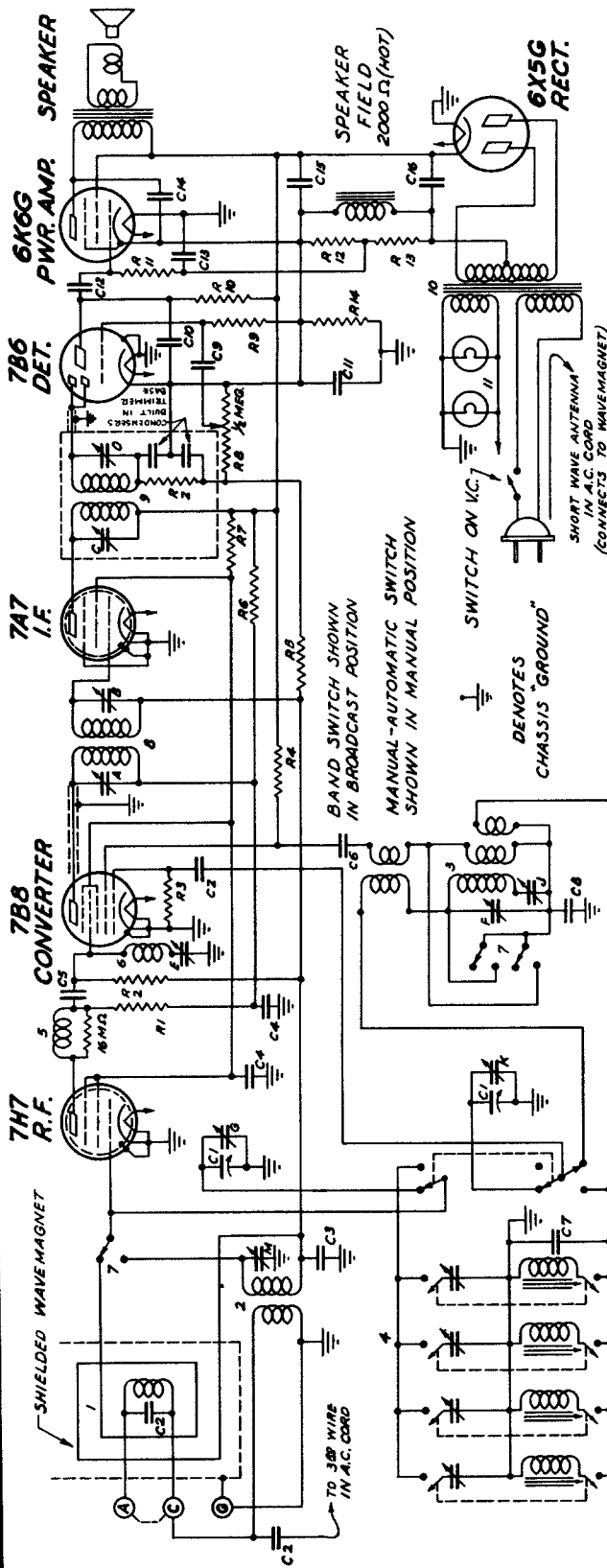
All voltages measured with a 20 M. ohm per volt meter from chassis to socket contact indicated.



MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

I.F. FREQUENCY 455 K.C.
 6 TUBE SUPERHETERODYNE
 CHASSIS NO. 6A02-AC-TWO BAND
 ZENITH RADIO CORPORATION

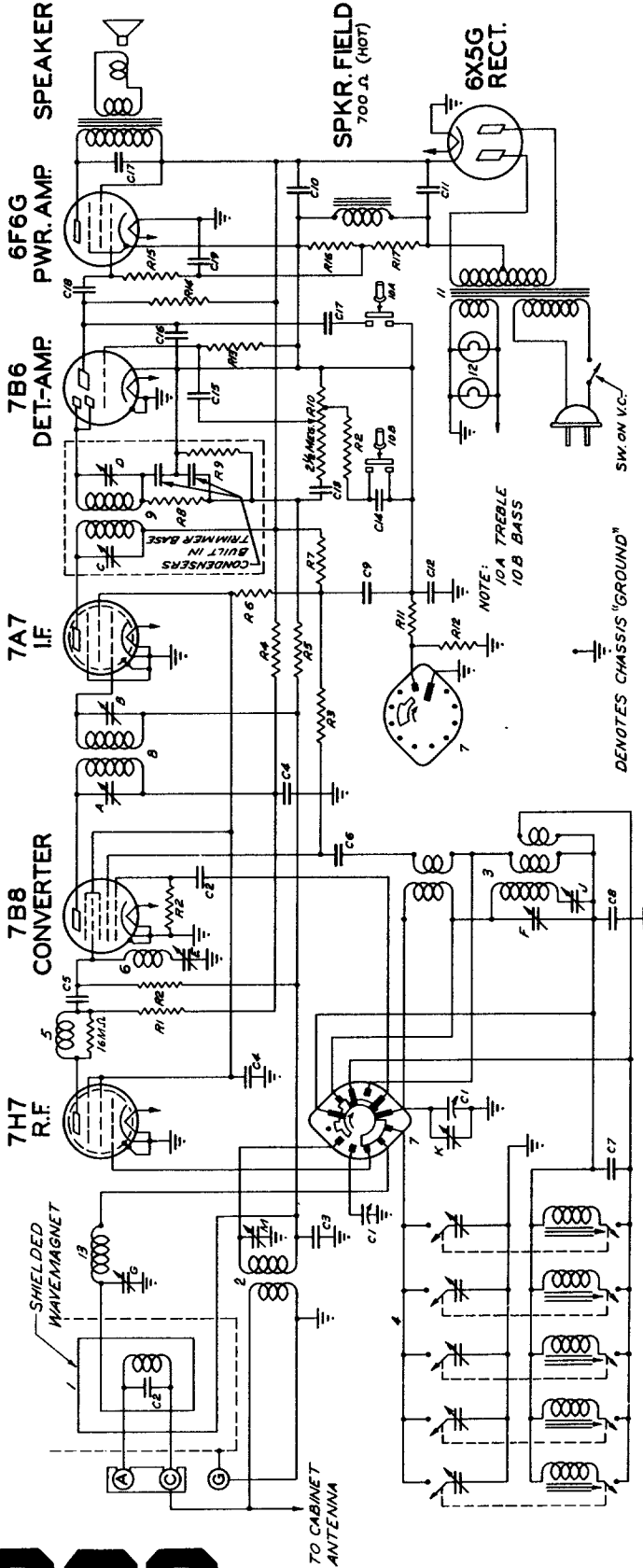
6A02
 6A04



DIA. NO.	PART NO.	DESCRIPTION	DIA. NO.	PART NO.	DESCRIPTION	DIA. NO.	PART NO.	DESCRIPTION
C1	22-1007	TWO GANGS VARIABLE	R13	63-653	470 M OHM	1	A	1ST I.F. TRANS. PRI.
C2	22-289	50 M.F.F.O.	R14	63-1098	42 OHM WIREWOUND	2	C	1ST I.F. SEC.
C3	22-828	.03 M.F.F.O.				3	D	2ND I.F. PRI.
C4	22-828	.03 M.F.F.O.				4	E	2ND I.F. SEC.
C5	22-162	.00036 M.F.F.O.				5	F	WAVELENGTH ASSEMBLY
C6	22-162	.00036 M.F.F.O.				6	G	ANTENNA COIL ASSEM.
C7	22-885	.001 M.F.F.O.				7	J	OSCILLATOR COIL ASSEM.
C8	22-482	.002 M.F.F.O.				8	K	AUTOMATIC TUNING ASSEM.
C9	22-482	.002 M.F.F.O.				9	M	R.F. CHOKER & RES. ASSEM.
C10	22-716	.0005 M.F.F.O.				10		WAVELENGTH ASSEMBLY
C11	22-837	.1 M.F.F.O.				11		WAVELENGTH ASSEMBLY
C12	22-830	.02 M.F.F.O.						OSCILLATOR COIL ASSEM.
C13	22-219	.03 M.F.F.O.						WAVELENGTH ASSEMBLY
C14	22-448	.004 M.F.F.O.						WAVELENGTH ASSEMBLY
C15	22-1029	.10 M.F.F.O. ELECTROLYTIC						1ST I.F. TRANS. SEC.
C16	22-1029	.15 M.F.F.O.						2ND I.F. TRANS. SEC.

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

I.F. FREQUENCY 455 KC.
6 TUBE SUPERHETERODYNE
CHASSIS No 6A05 2 BAND A.C.
ZENITH RADIO CORPORATION

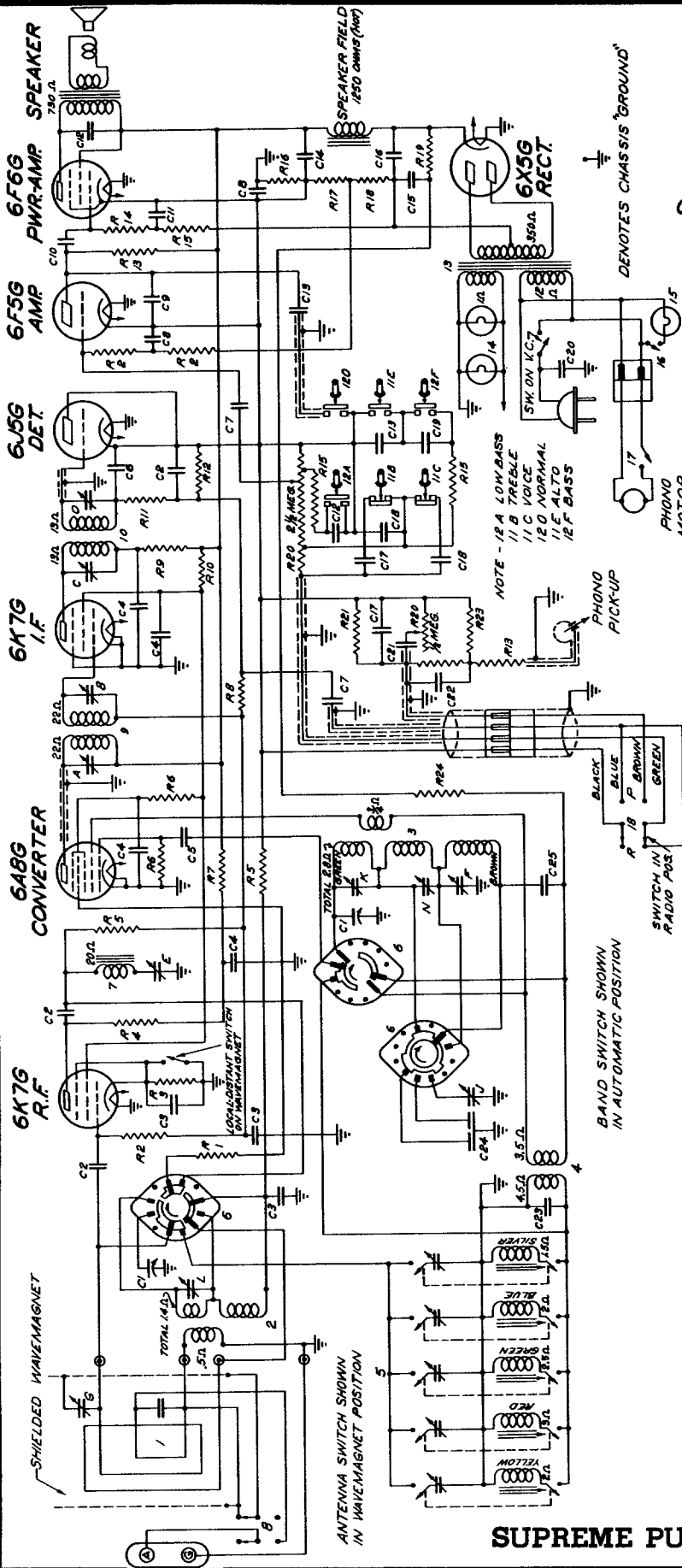


BAND SWITCH SHOWN IN AUTOMATIC POSITION

DWG. NO.	PART NO.	DESCRIPTION	VOLTS	DWG. NO.	PART NO.	DESCRIPTION
C 1	22-1044	TUNING GANG VARIABLE	200 V	DWG. NO. <td>PART NO. <td>DESCRIPTION</td> </td>	PART NO. <td>DESCRIPTION</td>	DESCRIPTION
C 2	22-299	.50 MFD.	1/2 W	R 15	63-597	470 M OHM
C 3	22-829	.05 MFD.	1/2 W	R 16	63-654	60 M OHM
C 4	22-828	.05 MFD.	1/2 W	R 17	63-656	270 M OHM
C 5	22-762	.0001 MFD.	1/2 W	1	S.8507	WAVEMAGNET ASSEMBLY
C 6	22-782	.0002 MFD.	1/2 W	2	S.8508	ANTENNA COIL ASSEMBLY
C 7	22-966	COMPENSATING COND.	1/2 W	3	S.8509	OSCILLATOR COIL ASSEMBLY
C 8	22-1022	.005 MFD.	1/2 W	4	S.8457	AUTOMATIC TUNING UNIT
C 9	22-1084	.005 MFD.	1/2 W	5	S.8559	A.F. CHOKES & RES. ASSEMBLY
C 10	22-1036	.005 MFD.	1/2 W	6	S.8553	WAVE TRAP ASSEMBLY
C 11	22-827	.1 MFD.	1/2 W	7	65-233	BAND SELECTOR SWITCH
C 12	22-827	.1 MFD.	1/2 W	8	95-708	I.F. TRANSFORMER
C 13	22-829	.005 MFD.	1/2 W	9	95-709	2ND I.F. TRANSFORMER
C 14	22-829	.005 MFD.	1/2 W	10	S.8531	TONE CONTROL SWITCH
C 15	22-854	.0005 MFD.	1/2 W	11	95-710	POWER TRANS. 50-60 W. 1/2 W
C 16	22-854	.0005 MFD.	1/2 W	12	100-36	PILOT LIGHT 6.3 V. .25 A.
C 18	22-850	.02 MFD.	1/2 W			
DWG. NO. <td>PART NO. <td>DESCRIPTION <td></td> <td>DWG. NO. <td>PART NO. <td>DESCRIPTION </td></td></td></td></td>	PART NO. <td>DESCRIPTION <td></td> <td>DWG. NO. <td>PART NO. <td>DESCRIPTION </td></td></td></td>	DESCRIPTION <td></td> <td>DWG. NO. <td>PART NO. <td>DESCRIPTION </td></td></td>		DWG. NO. <td>PART NO. <td>DESCRIPTION </td></td>	PART NO. <td>DESCRIPTION </td>	DESCRIPTION
13		LOOP LOADING COIL				
4		1ST I.F. TRANS. PRI.				
5		2ND I.F. SEC.				
6		2ND I.F. PRI.				
7		2ND I.F. SEC.				
8		2ND I.F. TRAP				
9		22-1045				
10		22-1046				
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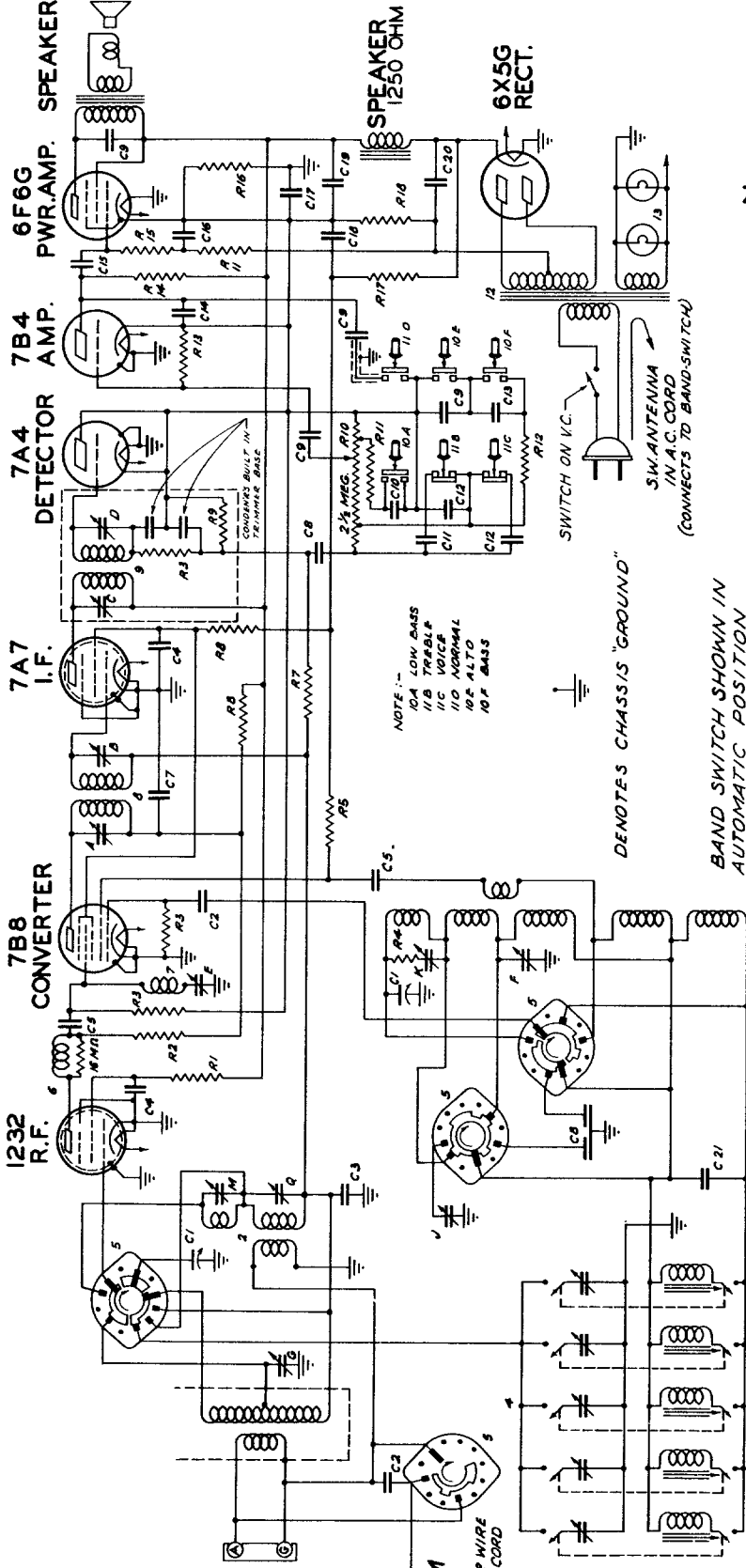
SERVICE DIAGRAMS

I.F. FREQUENCY 455 KC.
7 TUBE SUPERHETERODYNE
CHASSIS N° 7A01 PHONO 3BAND
ZENITH RADIO CORPORATION



TUBE NO.	PART NO.	DESCRIPTION	QWG NO.	PART NO.	DESCRIPTION	QWG NO.	PART NO.	DESCRIPTION	QWG NO.	PART NO.	DESCRIPTION
C1	2R-249	TUNING RANGE VARIABLE	600K	63-464	1 MEG OHM	18	65-718	PHONO SWITCH			
C2	2R-245	400K	1/4 W	63-719	470M OHM	1		1E I.F. TRANS. PRL			
C3	2R-249	400K	1/4 W	63-717	270M OHM	2		2B I.F. SEC.			
C4	2R-249	50M MFD.	1/4 W	63-1054	10M OHM	3		2B I.F. SEC.			
C5	2R-249	50M MFD.	1/4 W	57536	WAVE MAGNET ASSEMBLY	4	2E-940	WAVE TRAP			
C6	2R-246	0.0025 MFD.	1/4 W	56937	OSCILLATOR COIL ASSEMBLY	5		BROADCAST OSC. (SEE AMP)			
C7	2R-246	0.0025 MFD.	1/4 W	57044	OSC. COUPLER COIL ASSEMBLY	6		BROADCAST ANT.			
C8	2R-249	0.5 MFD.	1/4 W	57044	AUTOMATIC TUNING ASSEMBLY	7		BROADCAST ANT.			
C9	2R-249	0.5 MFD.	1/4 W	85-205	BAND SELECTOR SWITCH	8		SHORT WAVE SEC. (-)			
C10	2R-249	0.5 MFD.	1/4 W	57550	WAVE TRAP COIL ASSEMBLY	9		SHORT WAVE SEC. (-)			
C11	2R-249	0.5 MFD.	1/4 W	65-400	I.F. TRANSFORMER	10		POLICE BAND OSC. (-)			
C12	2R-249	0.5 MFD.	1/4 W	65-400	I.F. TRANSFORMER	11					
C13	2R-249	0.5 MFD.	1/4 W	58340	TRIMMER CONTROL ASSEMBLY (LEFT)	12					
C14	2R-249	0.5 MFD.	1/4 W	58340	TRIMMER CONTROL ASSEMBLY (RIGHT)	13					
C15	2R-246	0.0025 MFD.	1/4 W	100-318	ALD LIGHT 63 K. 25-40V	14					
C16	2R-246	0.0025 MFD.	1/4 W	85-654	PHONO TRAP 17 V. 50-60V	15					
C17	2R-246	0.0025 MFD.	1/4 W	85-654	PHONO TRAP 17 V. 50-60V	16					
C18	2R-246	0.0025 MFD.	1/4 W	85-654	PHONO TRAP 17 V. 50-60V	17					
C19	2R-246	0.0025 MFD.	1/4 W	85-654	PHONO TRAP 17 V. 50-60V	18					
C20	2R-246	0.0025 MFD.	1/4 W	85-654	PHONO TRAP 17 V. 50-60V	19					
C21	2R-246	0.0025 MFD.	1/4 W	85-654	PHONO TRAP 17 V. 50-60V	20					
C22	2R-246	0.0025 MFD.	1/4 W	85-654	PHONO TRAP 17 V. 50-60V	21					
C23	2R-246	0.0025 MFD.	1/4 W	85-654	PHONO TRAP 17 V. 50-60V	22					
C24	2R-246	0.0025 MFD.	1/4 W	85-654	PHONO TRAP 17 V. 50-60V	23					
C25	2R-358	0.002 MFD.	1/4 W	85-781	MOTOR SWITCH	24					

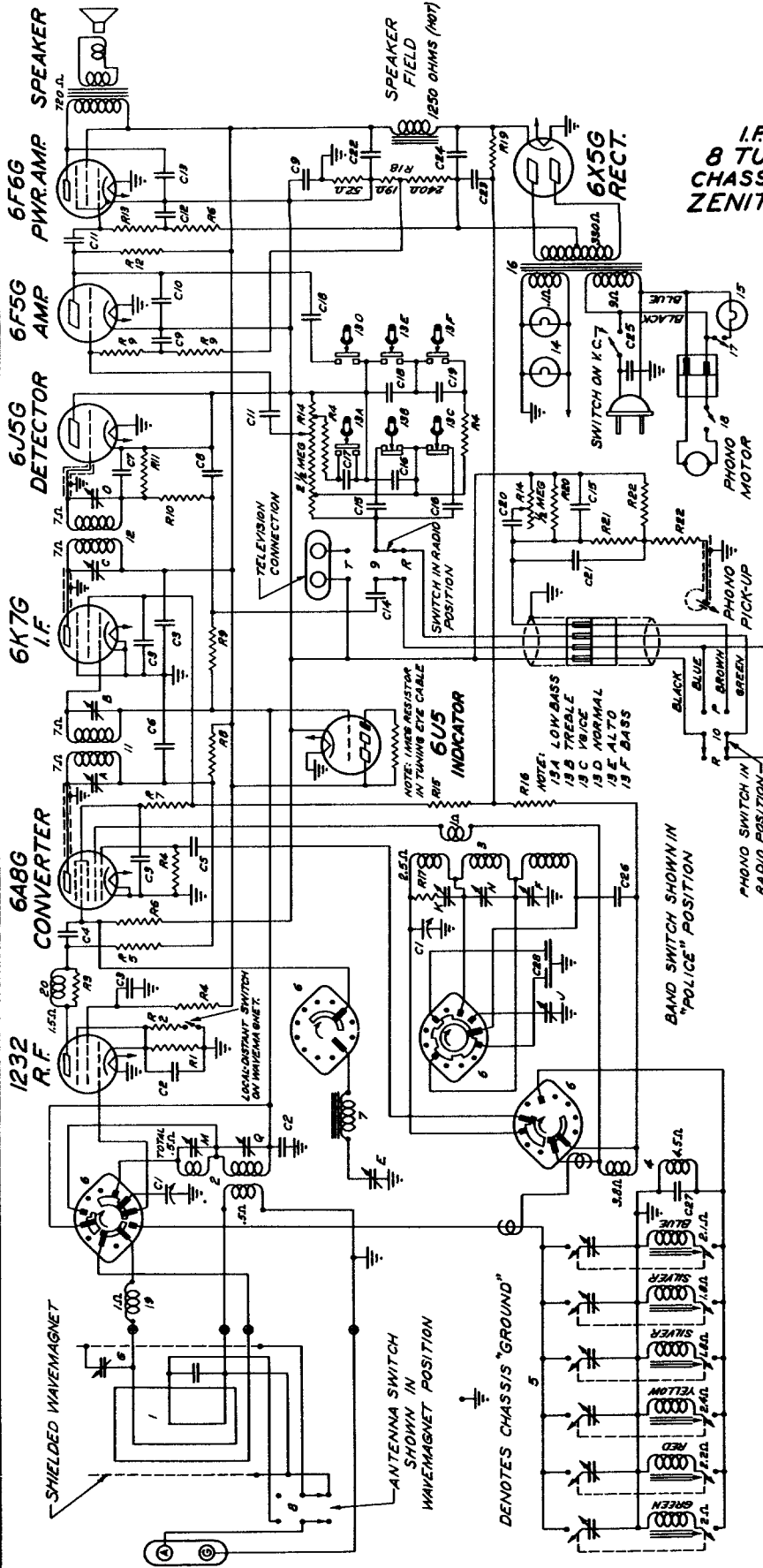
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



I.F. FREQUENCY 455 K.C.
 7 TUBE SUPERHETERODYNE
 CHASSIS No 7A02 3 BAND A.C.
 ZENITH RADIO CORPORATION

QIAS. PART NO.	DESCRIPTION	QIAS. PART NO.	DESCRIPTION	QIAS. PART NO.	DESCRIPTION	QIAS. PART NO.	DESCRIPTION	BAND NO.	PART NO.	DESCRIPTION
C1 22-280	TWO GANGS VARIABLE	C21 22-886	COMPENSATING COND.	R17 63-923	15M OHM	1	MINI-MAGNET ASSEMBLY	A	63-923	15M TRANS PRI
C2 22-389	30 MFD.	R1 63-260	100 M OHM	R18 63-1056	280 OHM WIREWOUND	2	ANTENNA COIL ASSEMBLY	B	63-1056	280 OHM WIREWOUND
C3 22-829	05 MFD.	R2 61-587	4700 OHM	3	58604	ANTENNA COIL ASSEMBLY	C	63-1056	280 OHM WIREWOUND	
C4 22-828	05 MFD.	R3 61-713	47M OHM	4	58457	ANTENNA COIL ASSEMBLY	D	63-1056	280 OHM WIREWOUND	
C5 22-182	00025 MFD.	R4 61-589	10M OHM	5	58457	ANTENNA COIL ASSEMBLY	E	63-1056	280 OHM WIREWOUND	
C6 22-865	1 MFD.	R5 63-605	1000 OHM	6	63-226	BAND SELECTOR SWITCH	F	63-226	BAND SELECTOR SWITCH	
C7 22-444	004 MFD.	R6 63-589	1.5 MEGOHM	7	3-8326	WAVE TRAP COIL ASSEM.	G	63-226	BAND SELECTOR SWITCH	
C8 22-228	00035 MFD.	R7 63-589	1.5 MEGOHM	8	3-8326	WAVE TRAP COIL ASSEM.	H	63-226	BAND SELECTOR SWITCH	
C9 22-954	00015 MFD.	R8 63-960	68 M OHM	9	95-704	1/2 I.A. TRANSFORMER (LEFT)	I	95-704	1/2 I.A. TRANSFORMER (LEFT)	
C10 22-470	00015 MFD.	R9 63-719	470 M OHM	10	95-704	1/2 I.A. TRANSFORMER (LEFT)	J	95-704	1/2 I.A. TRANSFORMER (LEFT)	
C11 22-492	0005 MFD.	R10 61-123	VOLUME CONTROL	11	95-704	1/2 I.A. TRANSFORMER (LEFT)	K	95-704	1/2 I.A. TRANSFORMER (LEFT)	
C12 22-684	0005 MFD.	R11 61-584	68 M OHM	12	95-705	PWR TRANS. 50-80V 1/17K	L	95-705	PWR TRANS. 50-80V 1/17K	
C13 22-684	0005 MFD.	R12 61-584	68 M OHM	13	100-36	PILOT LIGHT 6.3V .25A.	M	100-36	PILOT LIGHT 6.3V .25A.	
C14 22-684	0005 MFD.	R13 63-976	15 MEGOHM				N			
C15 22-684	0005 MFD.	R14 63-976	15 MEGOHM				O			
C16 22-684	0005 MFD.	R15 63-976	15 MEGOHM				P			
C17 22-827	1 MFD.	R16 63-975	82 OHM WIREWOUND				Q			
C18 22-1034	1/8 MFD.	R17 63-975	82 OHM WIREWOUND							
C19 22-1036	1/4 MFD.	R18 63-975	82 OHM WIREWOUND							

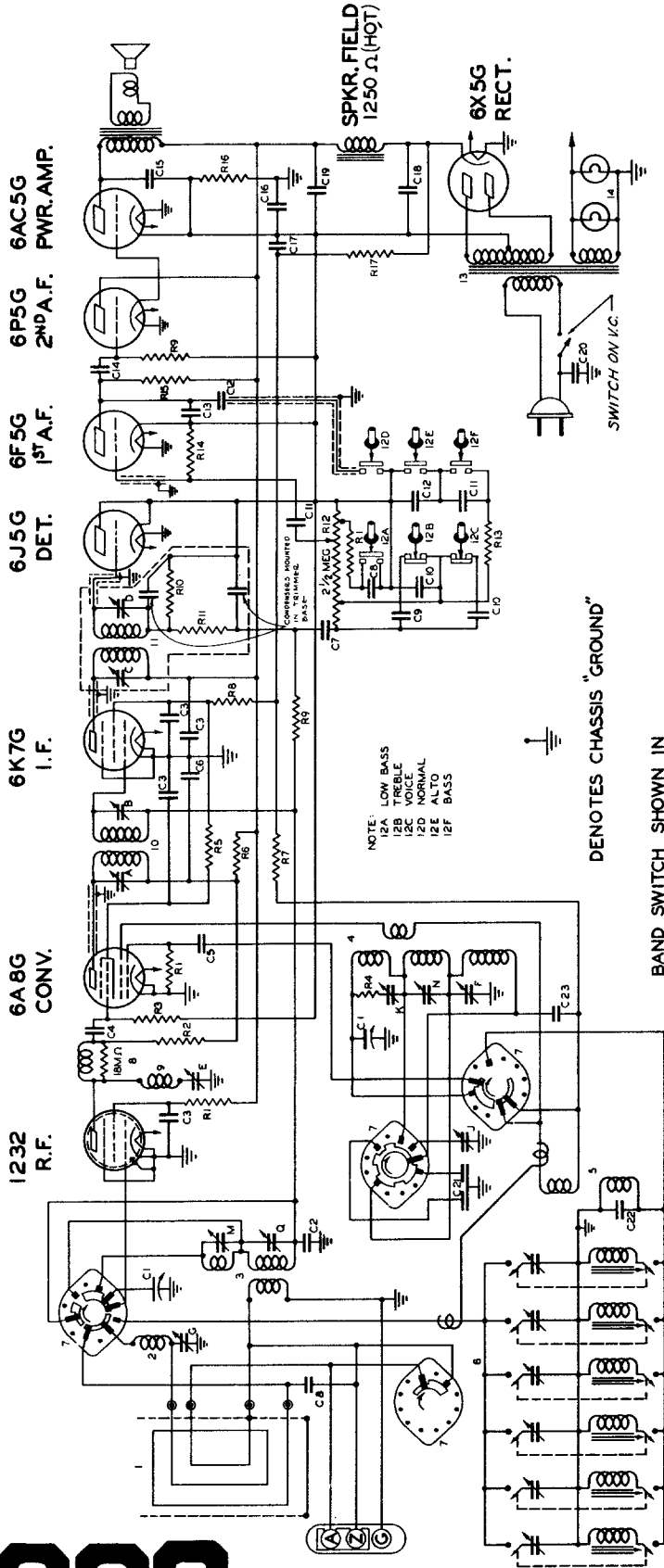
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



**I.F. FREQUENCY 455 KC.
8 TUBE SUPERHETERODYNE
CHASSIS N° 8A01 3BAND PHONO
ZENITH RADIO CORPORATION**

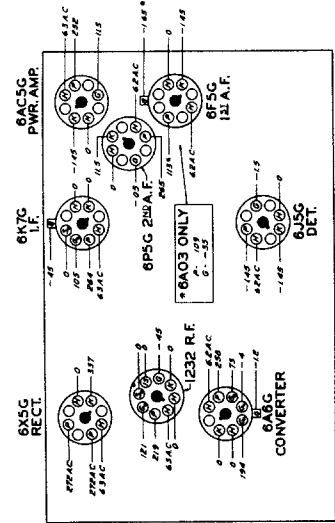
DWG. NO.	PART NO.	DESCRIPTION	DWG. NO.	PART NO.	DESCRIPTION
C1	22-227	200K	17	85-203	DOOR SWITCH
C2	22-229	400K	18	85-209	MOTOR SWITCH
C3	22-229	400K	19	38-242	100P. LANDING COIL ASSEM.
C4	22-276	1.500K MFD.	20	37-226	PER. CHARGE
C5	22-282	1.500K MFD.	1	4	1/2" TRANS. PRI.
C6	22-282	1.500K MFD.	2	5	1/2" TRANS. SEC.
C7	22-282	1.500K MFD.	3	6	1/2" TRANS. SEC.
C8	22-282	1.500K MFD.	4	7	1/2" TRANS. SEC.
C9	22-282	1.500K MFD.	5	8	1/2" TRANS. SEC.
C10	22-282	1.500K MFD.	6	9	1/2" TRANS. SEC.
C11	22-282	1.500K MFD.	10	10	1/2" TRANS. SEC.
C12	22-282	1.500K MFD.	11	11	1/2" TRANS. SEC.
C13	22-282	1.500K MFD.	12	12	1/2" TRANS. SEC.
C14	22-282	1.500K MFD.	13	13	1/2" TRANS. SEC.
C15	22-282	1.500K MFD.	14	14	1/2" TRANS. SEC.
C16	22-282	1.500K MFD.	15	15	1/2" TRANS. SEC.
C17	22-282	1.500K MFD.	16	16	1/2" TRANS. SEC.
C18	22-282	1.500K MFD.	17	17	1/2" TRANS. SEC.
C19	22-282	1.500K MFD.	18	18	1/2" TRANS. SEC.
C20	22-282	1.500K MFD.	19	19	1/2" TRANS. SEC.
C21	22-282	1.500K MFD.	20	20	1/2" TRANS. SEC.
C22	22-282	1.500K MFD.	1	1	1/2" TRANS. PRI.
C23	22-282	1.500K MFD.	2	2	1/2" TRANS. SEC.
C24	22-282	1.500K MFD.	3	3	1/2" TRANS. SEC.
C25	22-282	1.500K MFD.	4	4	1/2" TRANS. SEC.
C26	22-282	1.500K MFD.	5	5	1/2" TRANS. SEC.
C27	22-282	1.500K MFD.	6	6	1/2" TRANS. SEC.
C28	22-282	1.500K MFD.	7	7	1/2" TRANS. SEC.
C29	22-282	1.500K MFD.	8	8	1/2" TRANS. SEC.
C30	22-282	1.500K MFD.	9	9	1/2" TRANS. SEC.
C31	22-282	1.500K MFD.	10	10	1/2" TRANS. SEC.
C32	22-282	1.500K MFD.	11	11	1/2" TRANS. SEC.
C33	22-282	1.500K MFD.	12	12	1/2" TRANS. SEC.
C34	22-282	1.500K MFD.	13	13	1/2" TRANS. SEC.
C35	22-282	1.500K MFD.	14	14	1/2" TRANS. SEC.
C36	22-282	1.500K MFD.	15	15	1/2" TRANS. SEC.
C37	22-282	1.500K MFD.	16	16	1/2" TRANS. SEC.
C38	22-282	1.500K MFD.	17	17	1/2" TRANS. SEC.
C39	22-282	1.500K MFD.	18	18	1/2" TRANS. SEC.
C40	22-282	1.500K MFD.	19	19	1/2" TRANS. SEC.
C41	22-282	1.500K MFD.	20	20	1/2" TRANS. SEC.
C42	22-282	1.500K MFD.	1	1	1/2" TRANS. PRI.
C43	22-282	1.500K MFD.	2	2	1/2" TRANS. SEC.
C44	22-282	1.500K MFD.	3	3	1/2" TRANS. SEC.
C45	22-282	1.500K MFD.	4	4	1/2" TRANS. SEC.
C46	22-282	1.500K MFD.	5	5	1/2" TRANS. SEC.
C47	22-282	1.500K MFD.	6	6	1/2" TRANS. SEC.
C48	22-282	1.500K MFD.	7	7	1/2" TRANS. SEC.
C49	22-282	1.500K MFD.	8	8	1/2" TRANS. SEC.
C50	22-282	1.500K MFD.	9	9	1/2" TRANS. SEC.
C51	22-282	1.500K MFD.	10	10	1/2" TRANS. SEC.
C52	22-282	1.500K MFD.	11	11	1/2" TRANS. SEC.
C53	22-282	1.500K MFD.	12	12	1/2" TRANS. SEC.
C54	22-282	1.500K MFD.	13	13	1/2" TRANS. SEC.
C55	22-282	1.500K MFD.	14	14	1/2" TRANS. SEC.
C56	22-282	1.500K MFD.	15	15	1/2" TRANS. SEC.
C57	22-282	1.500K MFD.	16	16	1/2" TRANS. SEC.
C58	22-282	1.500K MFD.	17	17	1/2" TRANS. SEC.
C59	22-282	1.500K MFD.	18	18	1/2" TRANS. SEC.
C60	22-282	1.500K MFD.	19	19	1/2" TRANS. SEC.
C61	22-282	1.500K MFD.	20	20	1/2" TRANS. SEC.
C62	22-282	1.500K MFD.	1	1	1/2" TRANS. PRI.
C63	22-282	1.500K MFD.	2	2	1/2" TRANS. SEC.
C64	22-282	1.500K MFD.	3	3	1/2" TRANS. SEC.
C65	22-282	1.500K MFD.	4	4	1/2" TRANS. SEC.
C66	22-282	1.500K MFD.	5	5	1/2" TRANS. SEC.
C67	22-282	1.500K MFD.	6	6	1/2" TRANS. SEC.
C68	22-282	1.500K MFD.	7	7	1/2" TRANS. SEC.
C69	22-282	1.500K MFD.	8	8	1/2" TRANS. SEC.
C70	22-282	1.500K MFD.	9	9	1/2" TRANS. SEC.
C71	22-282	1.500K MFD.	10	10	1/2" TRANS. SEC.
C72	22-282	1.500K MFD.	11	11	1/2" TRANS. SEC.
C73	22-282	1.500K MFD.	12	12	1/2" TRANS. SEC.
C74	22-282	1.500K MFD.	13	13	1/2" TRANS. SEC.
C75	22-282	1.500K MFD.	14	14	1/2" TRANS. SEC.
C76	22-282	1.500K MFD.	15	15	1/2" TRANS. SEC.
C77	22-282	1.500K MFD.	16	16	1/2" TRANS. SEC.
C78	22-282	1.500K MFD.	17	17	1/2" TRANS. SEC.
C79	22-282	1.500K MFD.	18	18	1/2" TRANS. SEC.
C80	22-282	1.500K MFD.	19	19	1/2" TRANS. SEC.
C81	22-282	1.500K MFD.	20	20	1/2" TRANS. SEC.
C82	22-282	1.500K MFD.	1	1	1/2" TRANS. PRI.
C83	22-282	1.500K MFD.	2	2	1/2" TRANS. SEC.
C84	22-282	1.500K MFD.	3	3	1/2" TRANS. SEC.
C85	22-282	1.500K MFD.	4	4	1/2" TRANS. SEC.
C86	22-282	1.500K MFD.	5	5	1/2" TRANS. SEC.
C87	22-282	1.500K MFD.	6	6	1/2" TRANS. SEC.
C88	22-282	1.500K MFD.	7	7	1/2" TRANS. SEC.
C89	22-282	1.500K MFD.	8	8	1/2" TRANS. SEC.
C90	22-282	1.500K MFD.	9	9	1/2" TRANS. SEC.
C91	22-282	1.500K MFD.	10	10	1/2" TRANS. SEC.
C92	22-282	1.500K MFD.	11	11	1/2" TRANS. SEC.
C93	22-282	1.500K MFD.	12	12	1/2" TRANS. SEC.
C94	22-282	1.500K MFD.	13	13	1/2" TRANS. SEC.
C95	22-282	1.500K MFD.	14	14	1/2" TRANS. SEC.
C96	22-282	1.500K MFD.	15	15	1/2" TRANS. SEC.
C97	22-282	1.500K MFD.	16	16	1/2" TRANS. SEC.
C98	22-282	1.500K MFD.	17	17	1/2" TRANS. SEC.
C99	22-282	1.500K MFD.	18	18	1/2" TRANS. SEC.
C100	22-282	1.500K MFD.	19	19	1/2" TRANS. SEC.
C101	22-282	1.500K MFD.	20	20	1/2" TRANS. SEC.

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



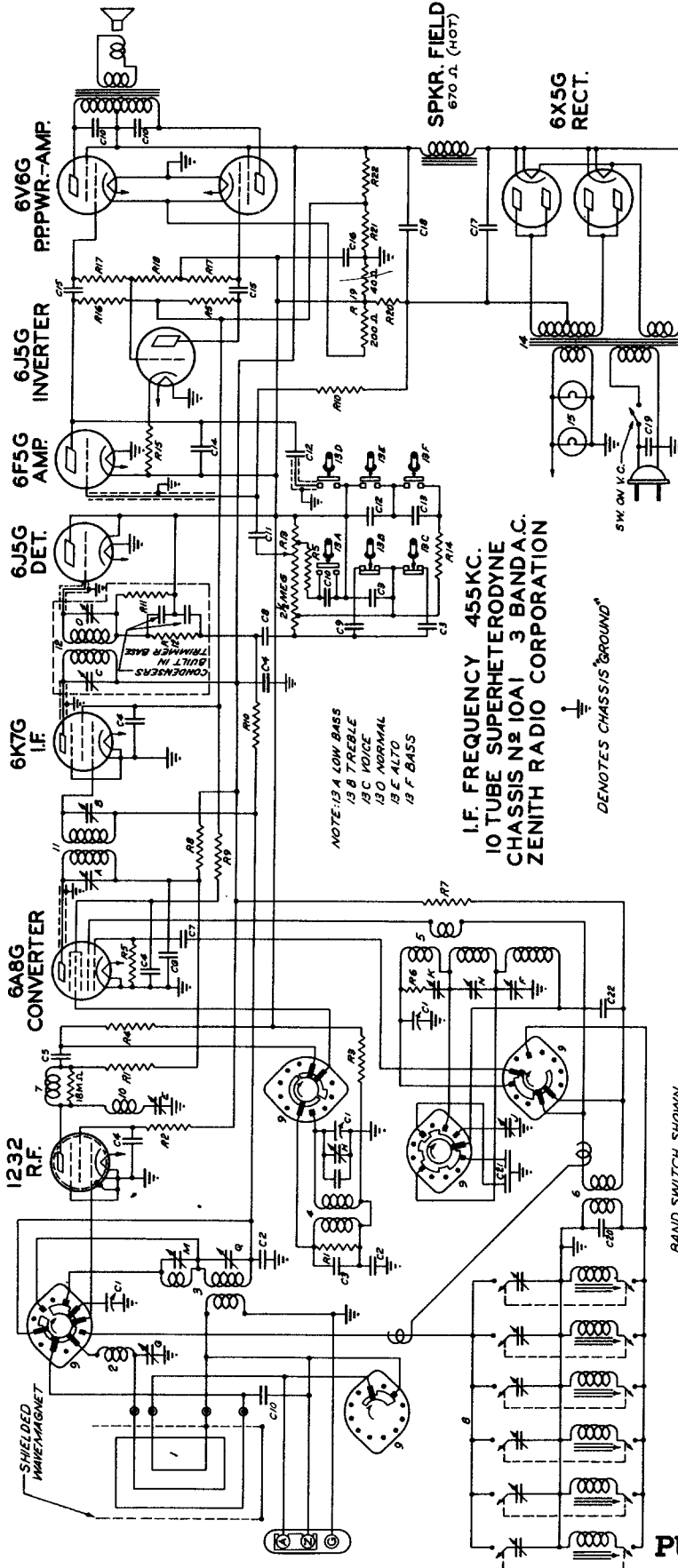
All voltages measured with a 20 M.ohm per volt meter from chassis to socket contact indicated.

I.F. FREQUENCY 455 K. C.
8 TUBE SUPERHETERODYNE
CHASSIS № 8A02 A.C.3 BAND
ZENITH RADIO CORPORATION

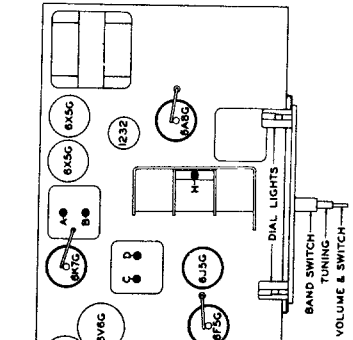


DIAG. PART. №	DESCRIPTION	DIAG. PART. №	DESCRIPTION	DIAG. PART. №	DESCRIPTION	DIAG. PART. №	DESCRIPTION
C 1	2-GANG VARIABLE	R 17	15M OHM	A	1K I.F. TRANS.	22-885	1W
C 2	200 V. .05 MFD.	R 18	500 OHM	B	2M I.F. SEC.	22-356	
C 3	500 V. .01 MFD.	R 19	100 OHM	C	2M I.F. SEC.		
C 4	25 V. .0005 MFD.	R 20	100 OHM	D	WAVE TRAP		
C 5	25 V. .0005 MFD.	R 21	100 OHM	E	BROADCAST OSC. (SEE NOTE 1)		
C 6	400 V. .02 MFD.	R 22	100 OHM	F	BROADCAST PADDER		
C 7	25 V. .0005 MFD.	R 23	100 OHM	G	SHORT WAVE ANT. (SEE NOTE 2)		
C 8	25 V. .0005 MFD.	R 24	100 OHM	H	POLICE BAND ANT. (SEE NOTE 2)		
C 9	25 V. .0005 MFD.	R 25	100 OHM	K	1.5 MFD. ELECTROLYTIC		
C 10	25 V. .0005 MFD.	R 26	100 OHM	L	1.5 MFD. ELECTROLYTIC		
C 11	25 V. .0005 MFD.	R 27	100 OHM	M	350 V. .005 MFD.		
C 12	25 V. .0005 MFD.	R 28	100 OHM	N	350 V. .005 MFD.		
C 13	25 V. .0005 MFD.	R 29	100 OHM	O	350 V. .005 MFD.		
C 14	25 V. .0005 MFD.	R 30	100 OHM	P	350 V. .005 MFD.		
C 15	25 V. .0005 MFD.	R 31	100 OHM	Q	350 V. .005 MFD.		
C 16	25 V. .0005 MFD.	R 32	100 OHM				
C 17	25 V. .0005 MFD.	R 33	100 OHM				
C 18	25 V. .0005 MFD.	R 34	100 OHM				
C 19	25 V. .0005 MFD.	R 35	100 OHM				
C 20	25 V. .0005 MFD.	R 36	100 OHM				

MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS

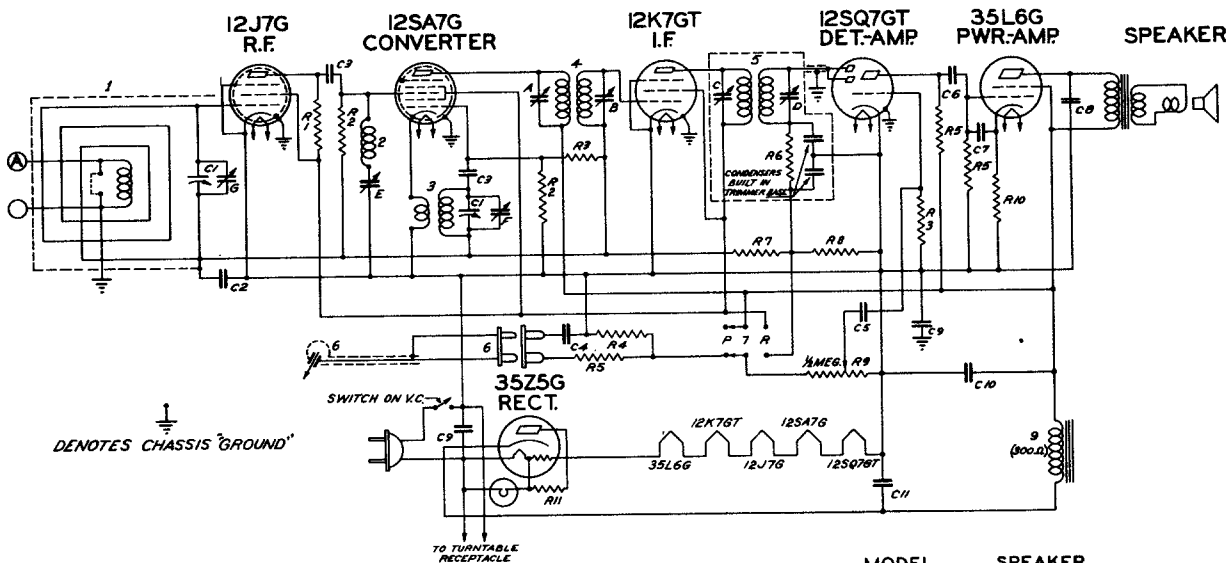


BAND SWITCH SHOWN
IN "POLICE" POSITION



DATE	PART NO.	DESCRIPTION	QTY	PRICE	UNIT	DESCRIPTION	QTY	PRICE	UNIT	DESCRIPTION	QTY	PRICE	UNIT	DESCRIPTION
C1	22-1043	THREE GANG VARIABLE	1											22B I.F. TRANS. PRI. SEC.
C2	22-823	500K	1	63-537	470 OHM									22C I.F. TRANS. SEC.
C3	22-870	.00015 MFD.	1	63-537	100M OHM									22D I.F. TRANS. SEC.
C4	22-829	.05 MFD.	1	63-537	10M OHM									22E I.F. TRANS. SEC.
C5	22-829	.05 MFD.	1	63-537	10M OHM									22F I.F. TRANS. SEC.
C6	22-829	.05 MFD.	1	63-537	10M OHM									22G I.F. TRANS. SEC.
C7	22-127	25 MFD.	1	63-537	47M OHM									22H I.F. TRANS. SEC.
C8	22-327	.02 MFD.	1	63-537	68 OHM									22I I.F. TRANS. SEC.
C9	22-327	.02 MFD.	1	63-537	68 OHM									22J I.F. TRANS. SEC.
C10	22-327	.02 MFD.	1	63-537	68 OHM									22K I.F. TRANS. SEC.
C11	22-327	.02 MFD.	1	63-537	68 OHM									22L I.F. TRANS. SEC.
C12	22-327	.02 MFD.	1	63-537	68 OHM									22M I.F. TRANS. SEC.
C13	22-327	.02 MFD.	1	63-537	68 OHM									22N I.F. TRANS. SEC.
C14	22-327	.02 MFD.	1	63-537	68 OHM									22O I.F. TRANS. SEC.
C15	22-327	.02 MFD.	1	63-537	68 OHM									22P I.F. TRANS. SEC.
C16	22-327	.02 MFD.	1	63-537	68 OHM									22Q I.F. TRANS. SEC.
C17	22-327	.02 MFD.	1	63-537	68 OHM									22R I.F. TRANS. SEC.
C18	22-327	.02 MFD.	1	63-537	68 OHM									22S I.F. TRANS. SEC.
C19	22-327	.02 MFD.	1	63-537	68 OHM									22T I.F. TRANS. SEC.
C20	22-327	.02 MFD.	1	63-537	68 OHM									22U I.F. TRANS. SEC.
C21	22-327	.02 MFD.	1	63-537	68 OHM									22V I.F. TRANS. SEC.
C22	22-327	.02 MFD.	1	63-537	68 OHM									22W I.F. TRANS. SEC.

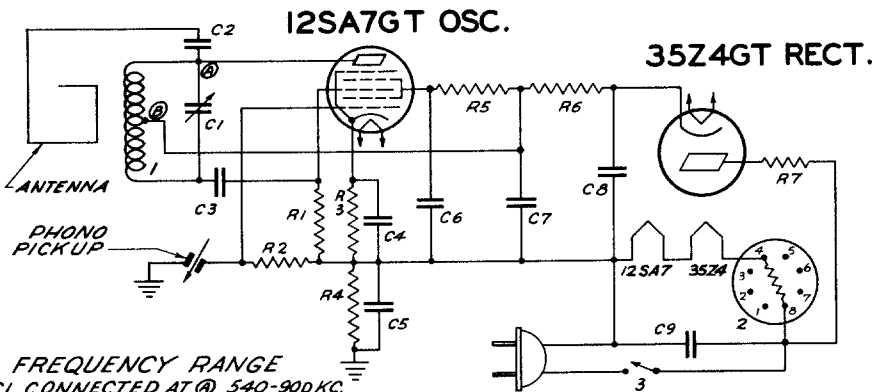
MANUAL OF 1940 MOST POPULAR SERVICE DIAGRAMS



MODEL 6R583 SPEAKER 49-403 4"

DIAG. NO.	PART NO.	DESCRIPTION	DIAG. NO.	PART NO.	DESCRIPTION	DIAG. NO.	PART NO.	DESCRIPTION
C1	22-1006	TWO-BAND VARIABLE	R3	63-1093	15 MEGOHM	A	55-697	24P I.F. TRANS.
C2	22-829	.05 MFD.	R4	63-715	100 M OHM	B	142-31	PICKUP & PLUG
C3	22-162	.0001 MFD.	R6	63-719	470 M OHM	C	85-260	PHONO-RADIO SWITCH
C4	22-327	.02 MFD.	R7	63-719	47 M OHM	D	100-67	PILOT LIGHT 6.3V. .15 A.
C5	22-492	.002 MFD.	R8	63-726	10 MEGOHM	E	32-718	FILTER CHoke
C6	22-348	.01 MFD.	R9	63-1112	VOLUME CONTROL	F		
C7	22-854	.0005 MFD.	R10	63-686	150 OHM WIREWOUND			
C8	22-1049	.03 MFD.	R11	63-1023	22 OHM WIREWOUND			
C9	22-1017	.05 MFD.						
C10	22-1016	150 MFD. ELECTROLYTIC						
C11	22-1016	50 MFD. ELECTROLYTIC						
R1	63-709	10M OHM	1	58326	WAVE MAGNET ASSEMBLY			
R2	63-711	22M OHM	2	58356	WAVE TRAP COIL ASSEMBLY			
			3	58356	OSC. COIL ASSEMBLY			
			4	55-696	1E I.F. TRANS.			

IF FREQUENCY 455 KC.
6 TUBE SUPERHETERODYNE
CHASSIS No 6A08 - A.C. PHONO
ZENITH RADIO CORPORATION



FREQUENCY RANGE
C1 CONNECTED AT @ 540-900 KC.
C1 CONNECTED AT @ 900-1500 KC.

MODELS

S 8500
S 8501

DIAG. NO.	PART NO.	DESCRIPTION	DIAG. NO.	PART NO.	DESCRIPTION
C1	22-690	TUNING CONDENSER	R3	63-701	470 OHM
C2	22-162	.0001 MFD.	R4	63-296	220M OHM
C3	22-182	.00025 MFD.	R5	63-964	4700 OHM
C4	22-829	.05 MFD.	R6	63-803	2200 OHM
C5	22-827	.1 MFD.	R7	63-375	47 OHM
C6	22-243	.01 MFD.			
C7	22-876	18 MFD. ELECTROLYTIC	1	58611	OSC. COIL ASSEM.
C8	22-876	40 MFD. "	2	100-76	BALLAST TUBE
C9	22-828	.05 MFD.	3	85-170	A.C. SWITCH
R1	63-591	22 M OHM			
R2	63-271	1 MEGOHM			

PHONOGRAPH OSCILLATOR
ZENITH RADIO CORPORATION