

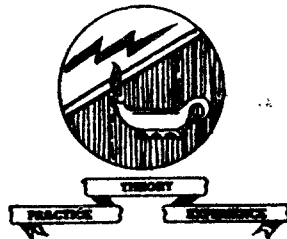
Most - Often - Needed

1926-1938

**RADIO
DIAGRAMS**
and Servicing Information

Compiled by

M. N. BEITMAN



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CHICAGO

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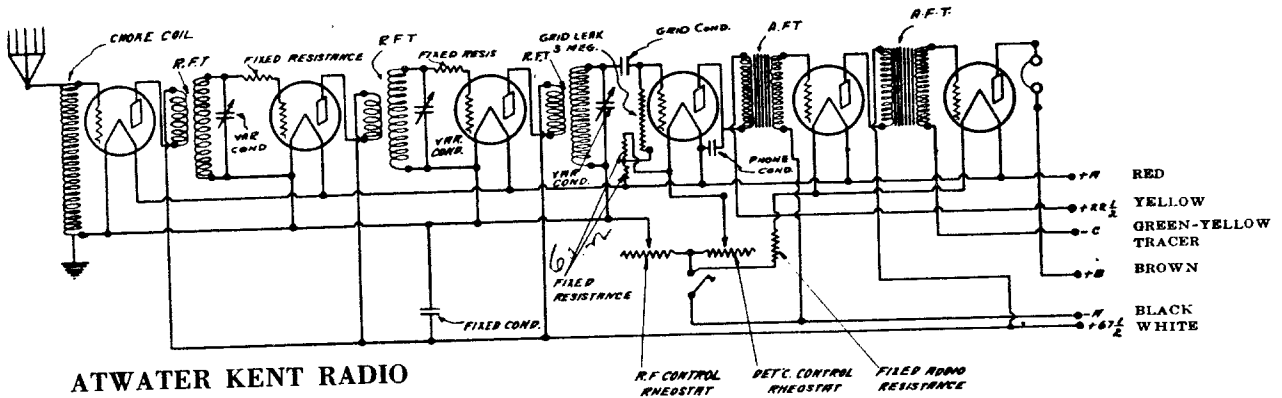
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MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

MODEL 30, 32, 35 AND 48



WIRING DIAGRAM OF MODEL 30, 35 AND 48.

In Model 35, one rheostat controls the three R. F. filaments and a fixed resistor is connected in series with the detector and two A. F. filaments

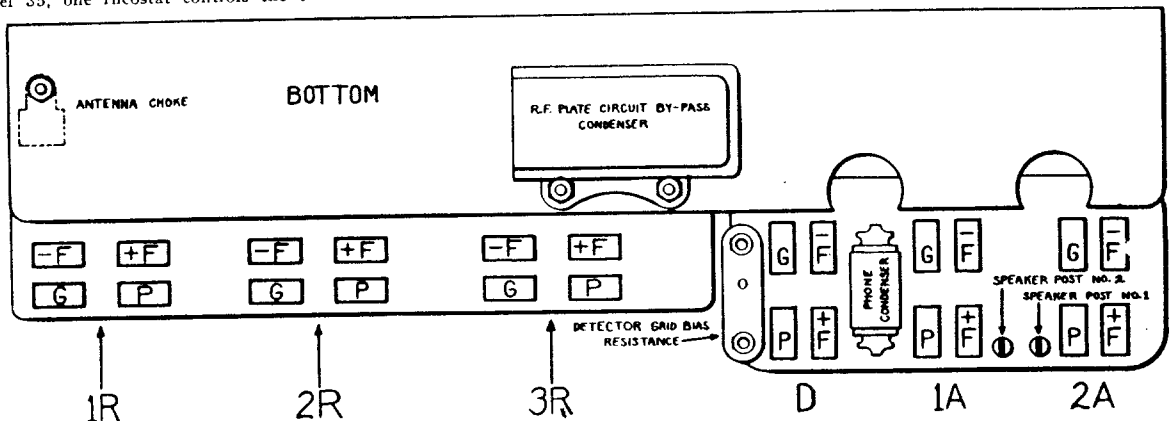


CHART FOR MODEL 30, 35 AND 48.

Early Model 30 Sets have separate R. F. sockets, but the socket contacts are in same relative position as shown in above chart.

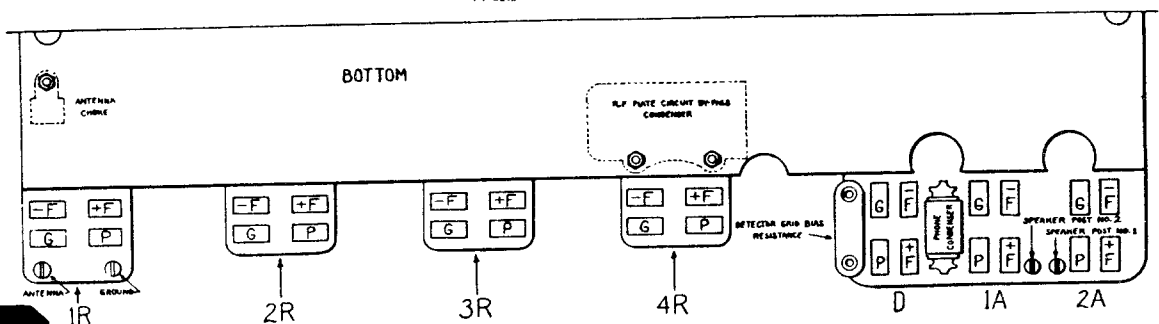
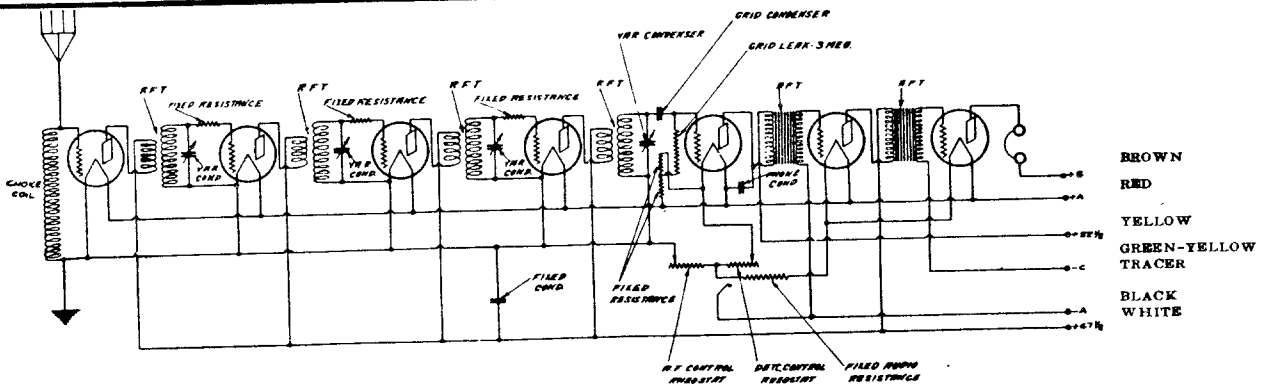
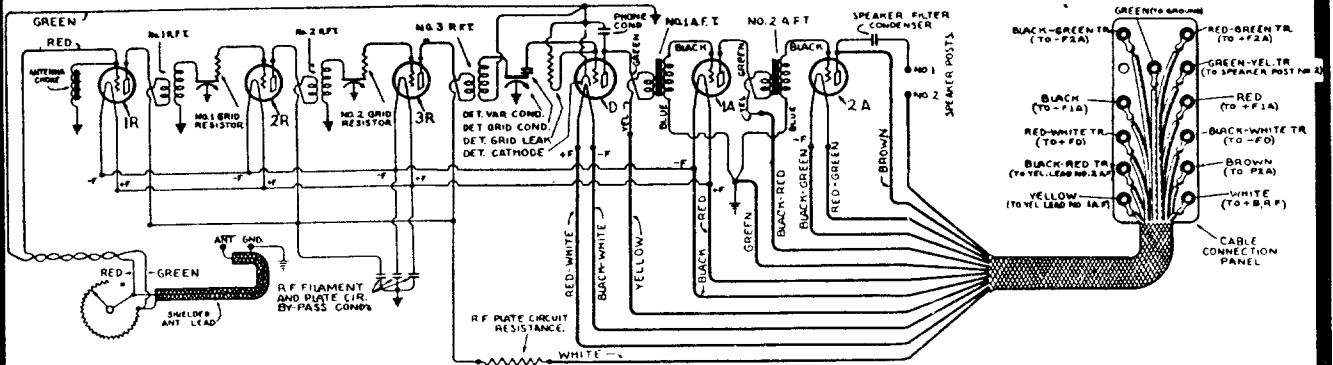


CHART FOR MODEL 32.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

ATWATER KENT RADIO

MODEL 37, 37-F, 37-C CHASSIS



WIRING DIAGRAM OF MODEL 37, 37-F, 37-C.

A 2nd-A. F. filament-shunt resistor is used before Serial No. 1,385,000, in which case speaker post No. 2 connects to the centre-tap of this resistor, and the green-yellow tracer lead is not used. The R. F. plate circuit resistor is used after Serial No. 1,385,000. In Model 37-C the on-off switch is connected to the two terminals on either side of the ground eyelet. A 2nd A. F. filament shunt resistor is used in the chassis of all Model 37-C receivers.

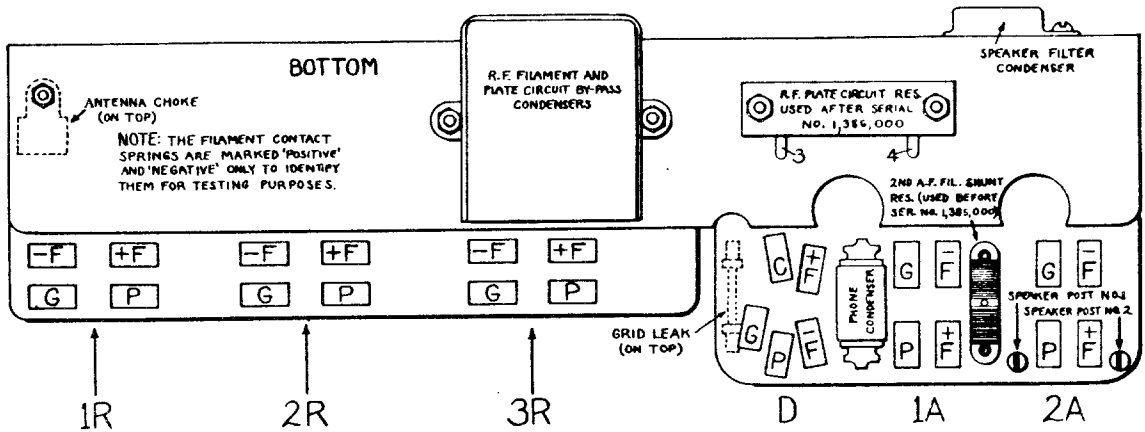
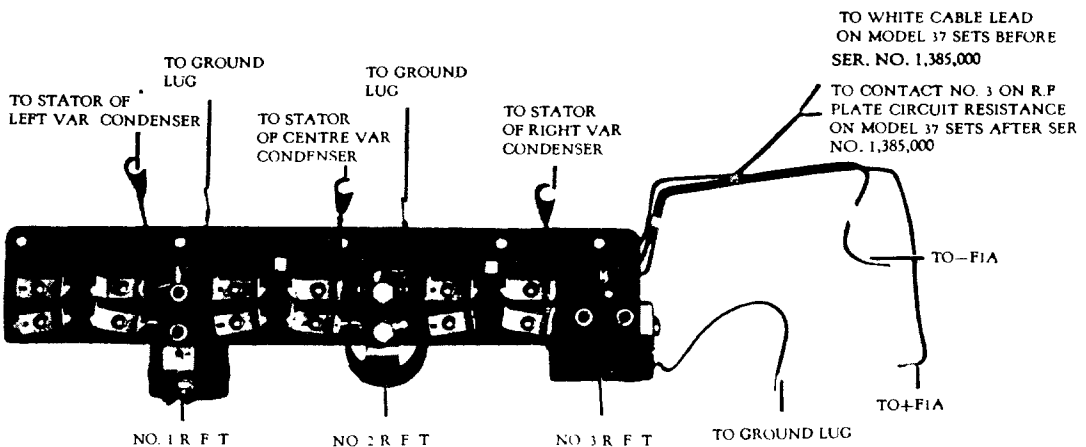


CHART FOR MODEL 37, 37-F, 37-C.

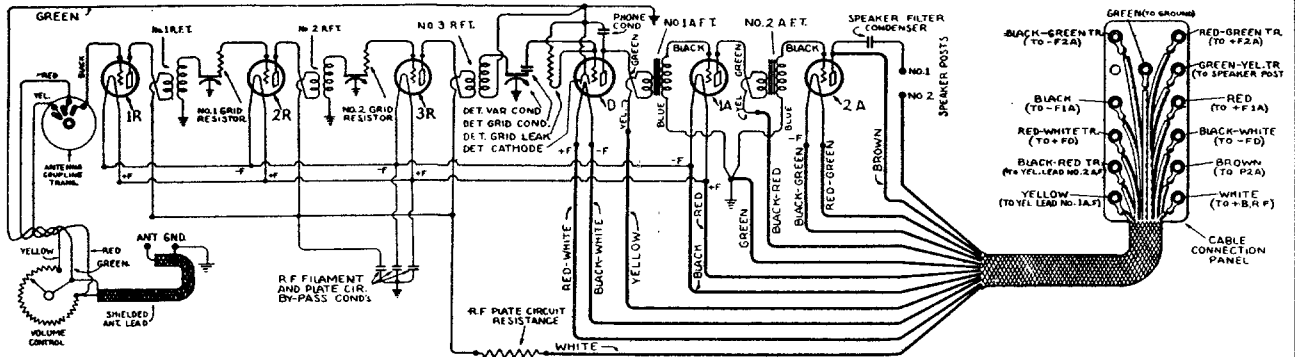


VIEW OF R. F. AMPLIFIER.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

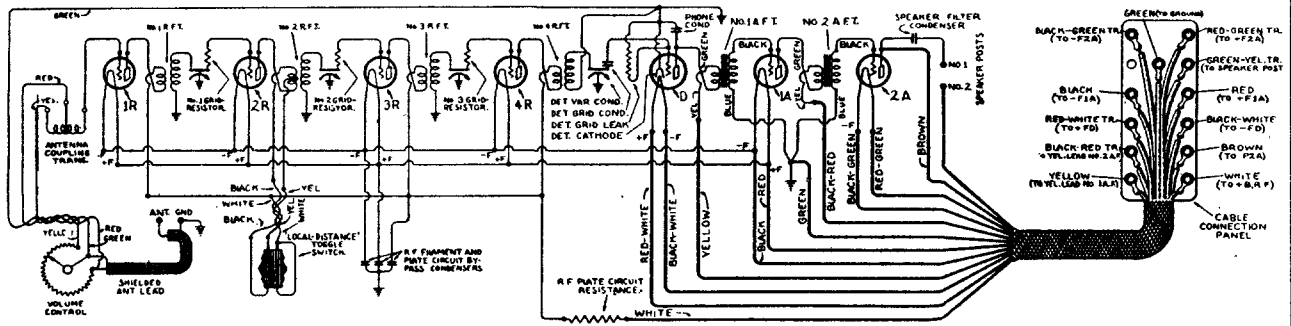
ATWATER KENT RADIO

MODEL 40, 40-F, 42, 42-F, 44, 44-F, 45, 52, 56 AND 57 CHASSIS

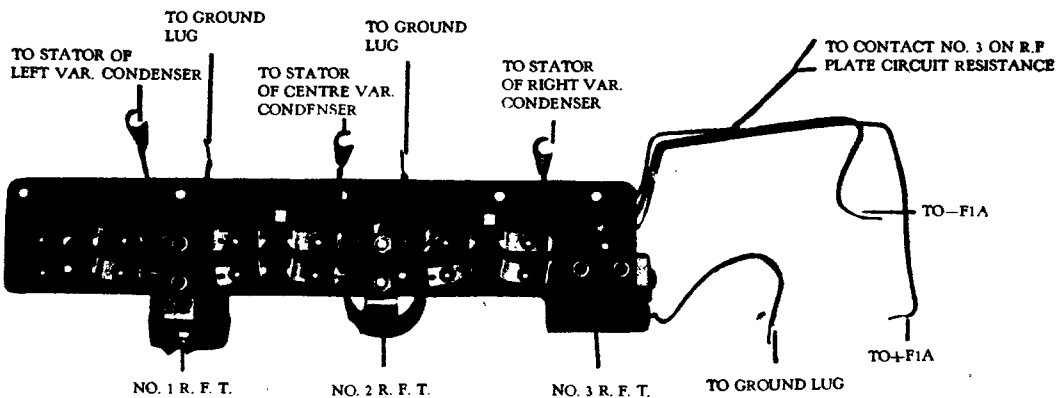


WIRING DIAGRAM OF MODEL 40, 40-F, 42, 42-F, 52, 56 AND 57.

Model 52 does not have the shielded antenna lead, but is provided with two twenty-foot leads which are connected to the volume control, black antenna and black-green tracer for ground. Model 56 and 57 have antenna and ground posts at the bottom of the cabinet.



WIRING DIAGRAM OF MODEL 44, 44-F AND 45.

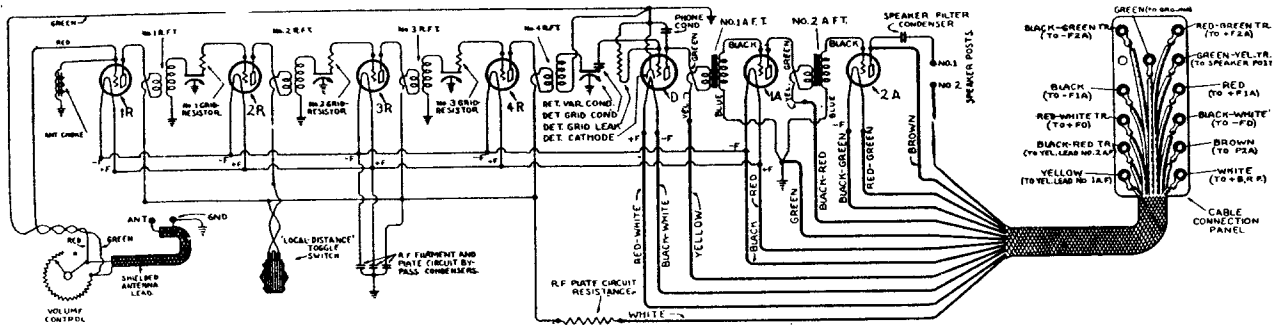


VIEW OF R.F. AMPLIFIER ASSEMBLY IN MODEL 40, 40-F, 42, 42-F, 52, 56 AND 57.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

ATWATER KENT RADIO

MODEL 38 CHASSIS



WIRING DIAGRAM OF MODEL 38.

A 2nd-A. F. filament-shunt resistor is used before Serial No. 1,752,000 and the green-yellow tracer cable lead is not used.

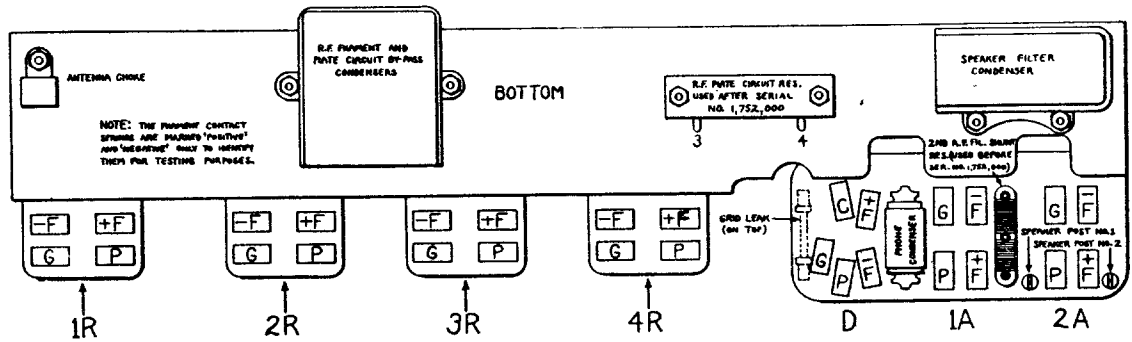
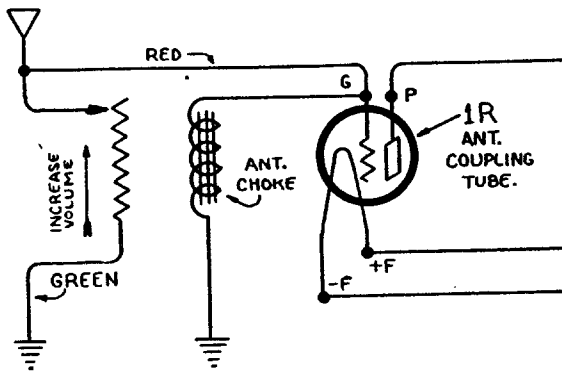
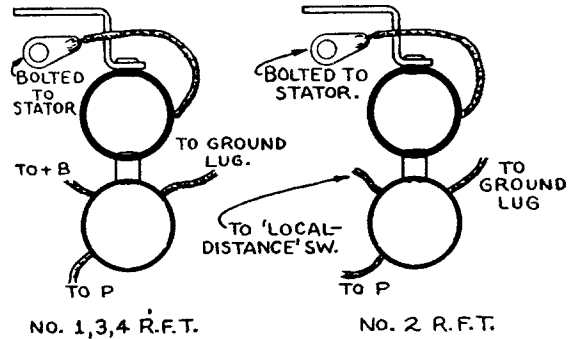


CHART FOR MODEL 38.



SCHEMATIC DIAGRAM OF VOLUME CONTROL IN MODEL 37, 37-F, 37-C AND 38.



SKETCH SHOWING CONNECTIONS FROM R.F. TRANSFORMERS, MODEL 38.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

ATWATER KENT RADIO

MODEL 43, 46, 47 AND 53

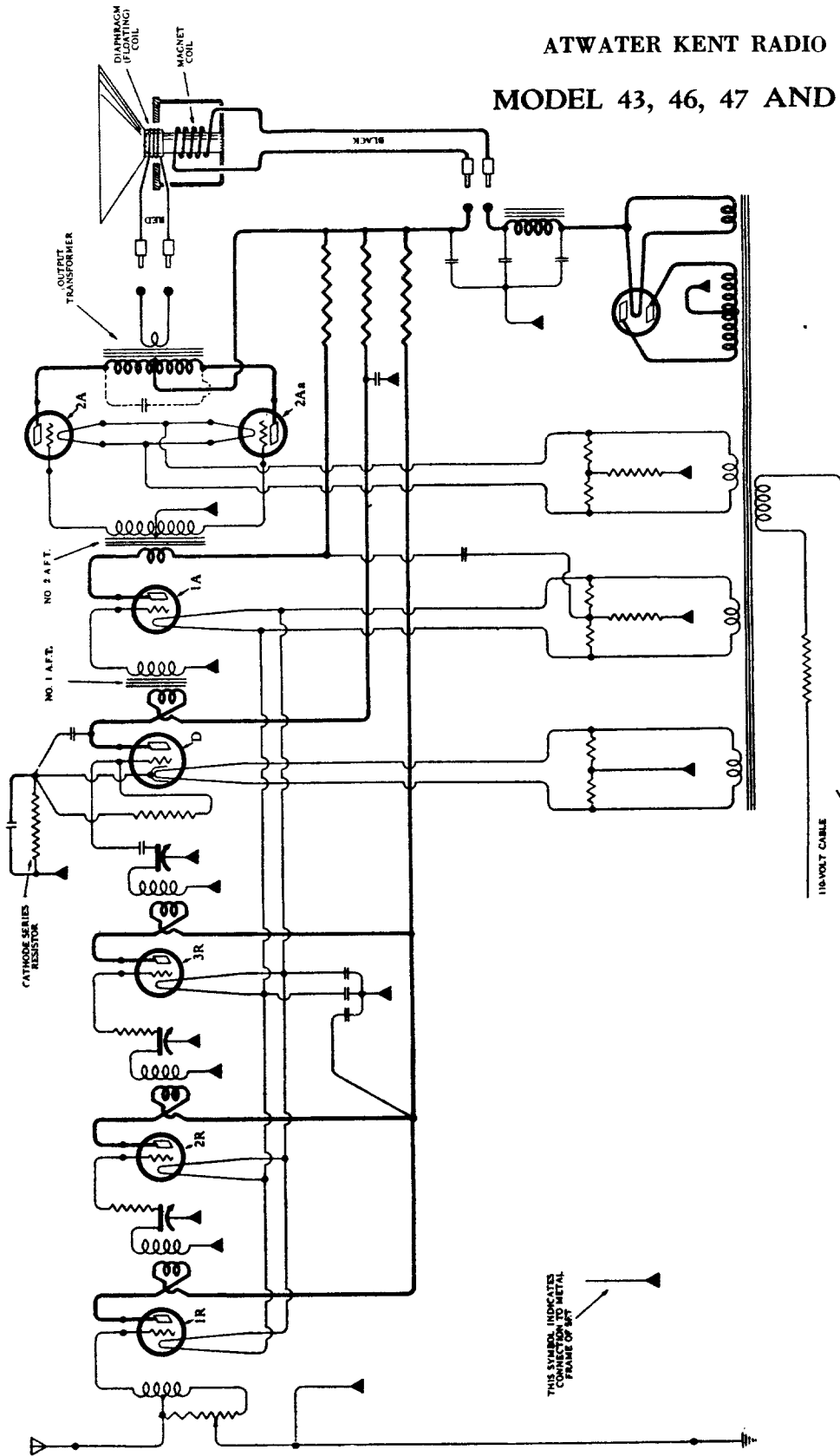
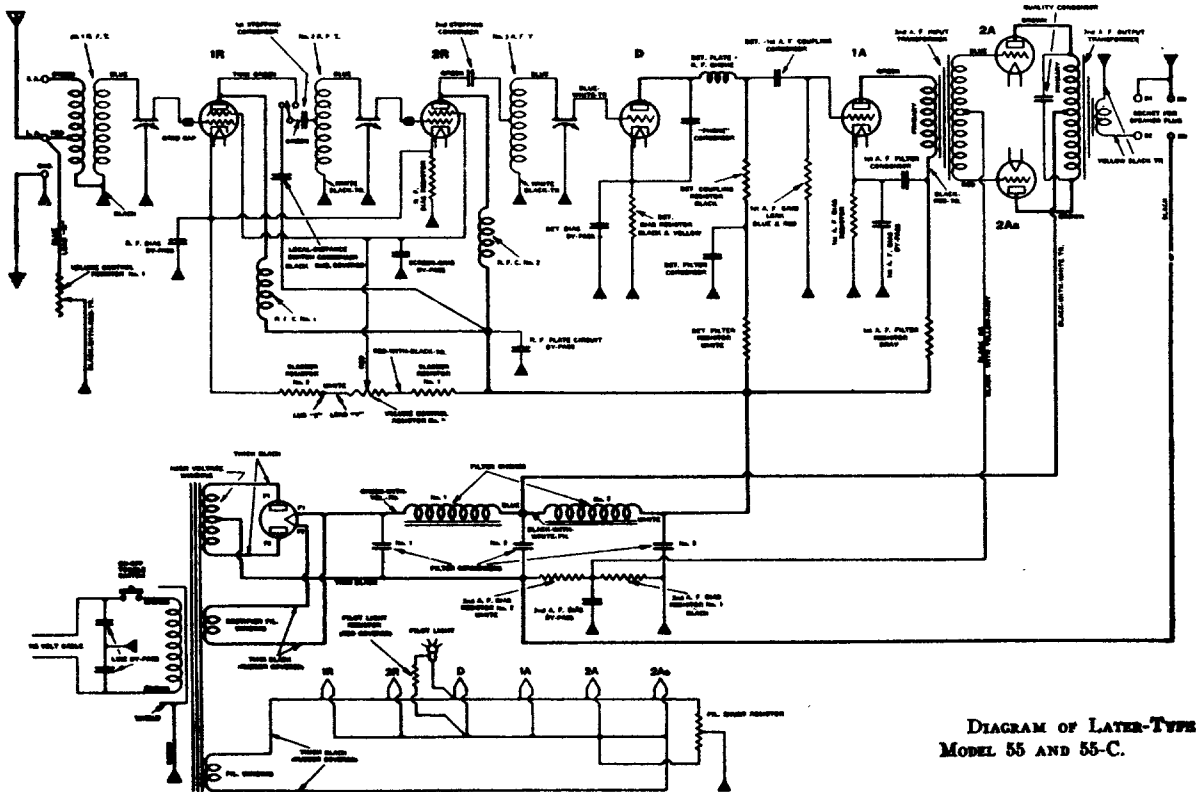
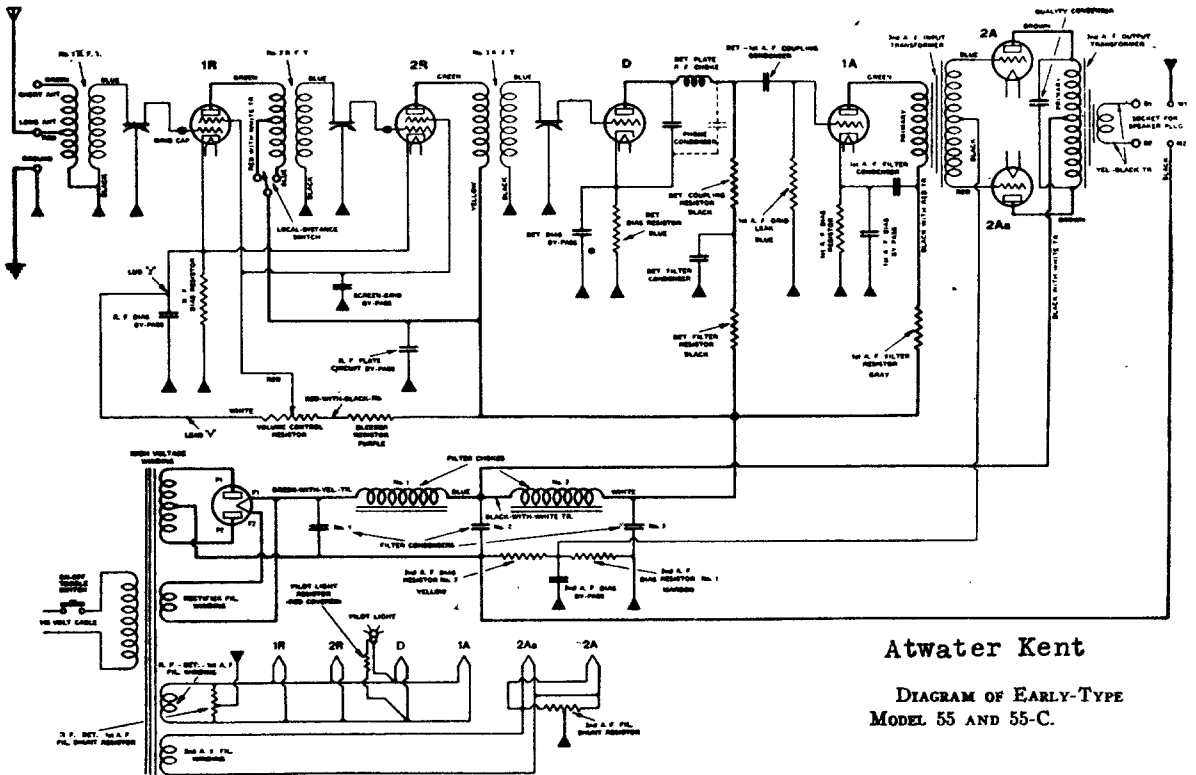


DIAGRAM OF MODEL 43, 46 AND 53. (The output transformer is sealed in the power unit.)
 Model 47 is similar to this but has one extra stage of R. F. amplification and a local distance switch similar to that in Model 44.

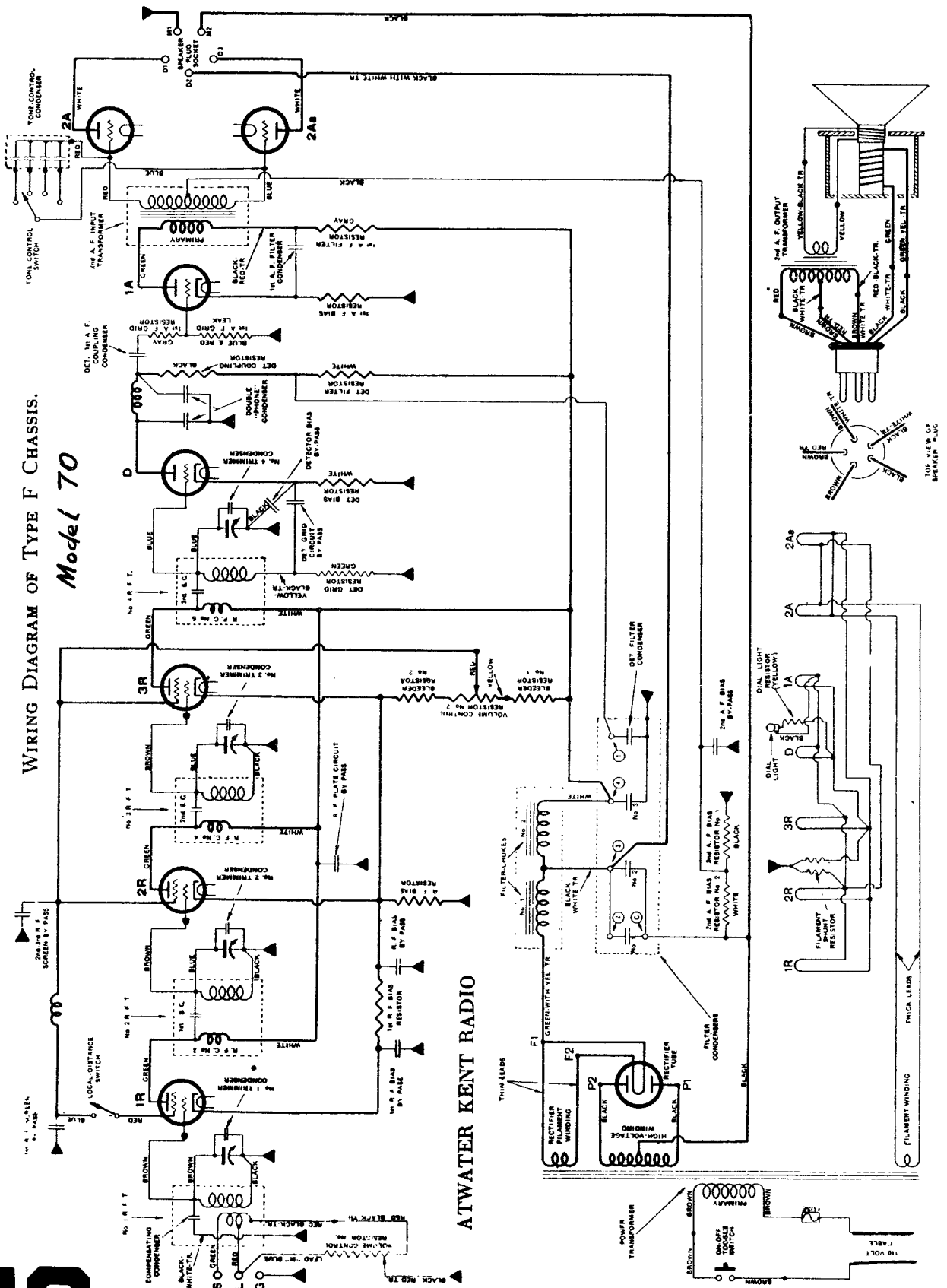
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

MODEL 55 AND 55-C



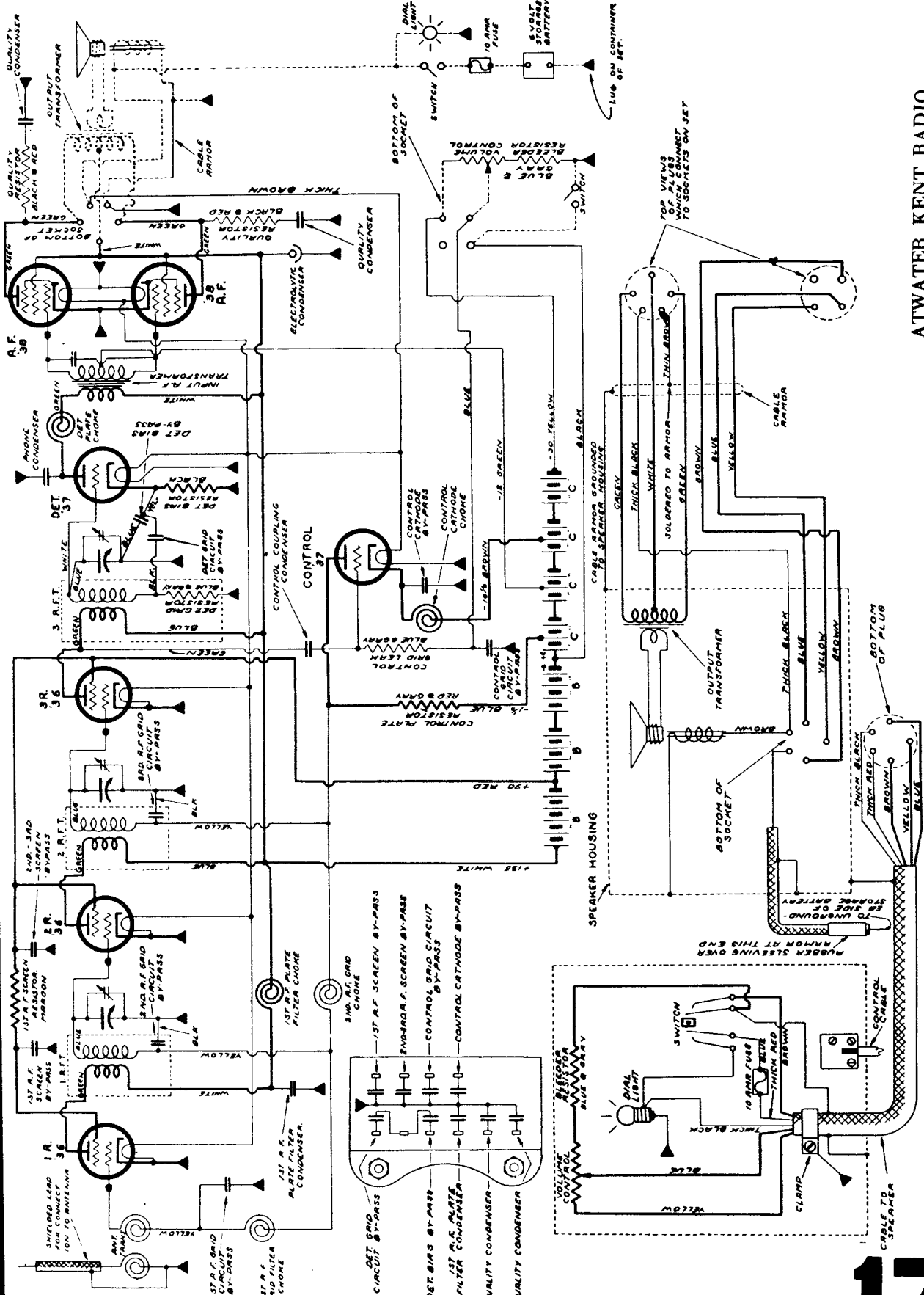
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

WIRING DIAGRAM OF TYPE F CHASSIS. Model 70



ATWATER KENT RADIO

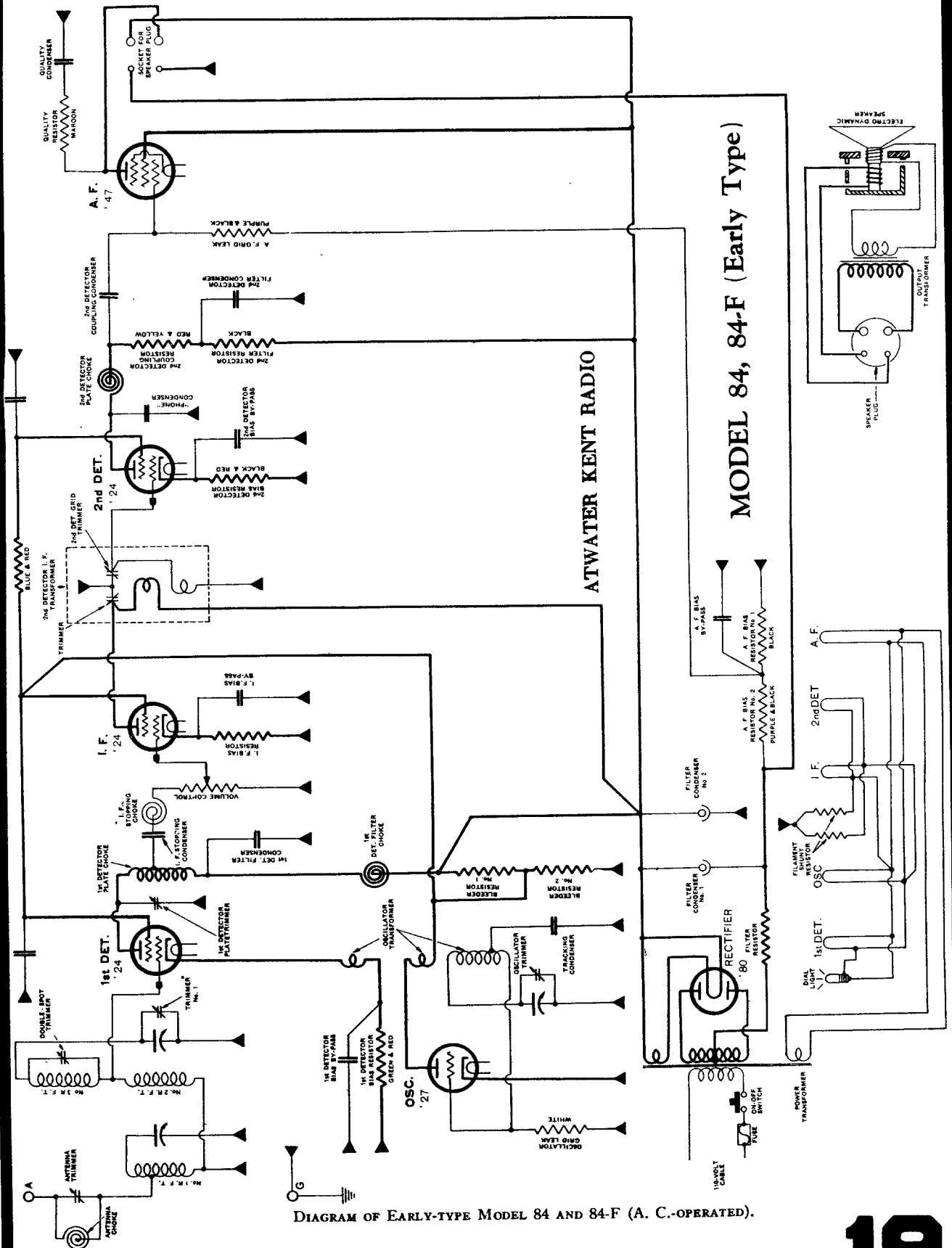
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



ATWATER KENT RADIO

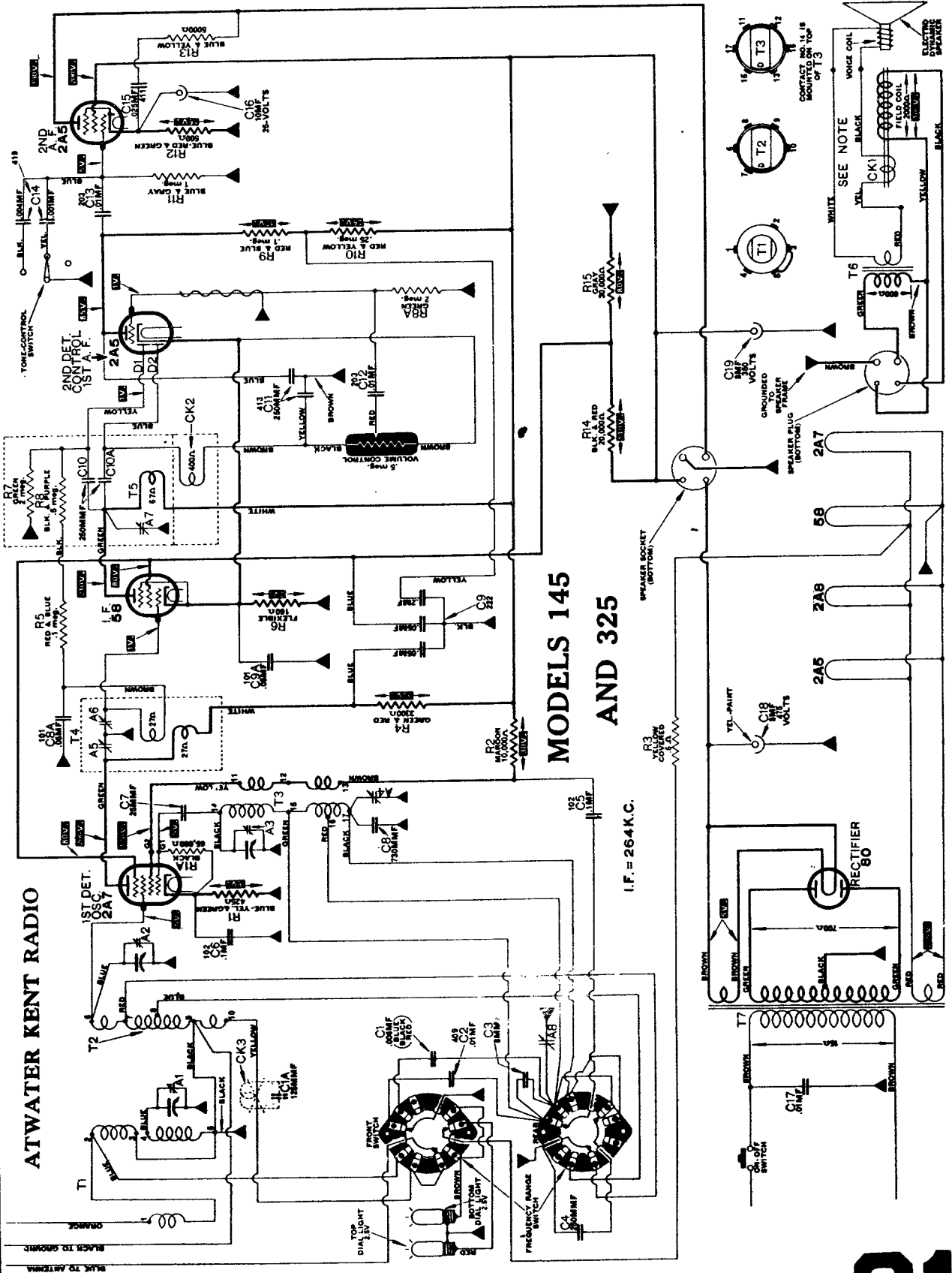
DIAGRAM OF MODEL 81 MOTOR CAR RADIO (BATTERY-OPERATED).

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

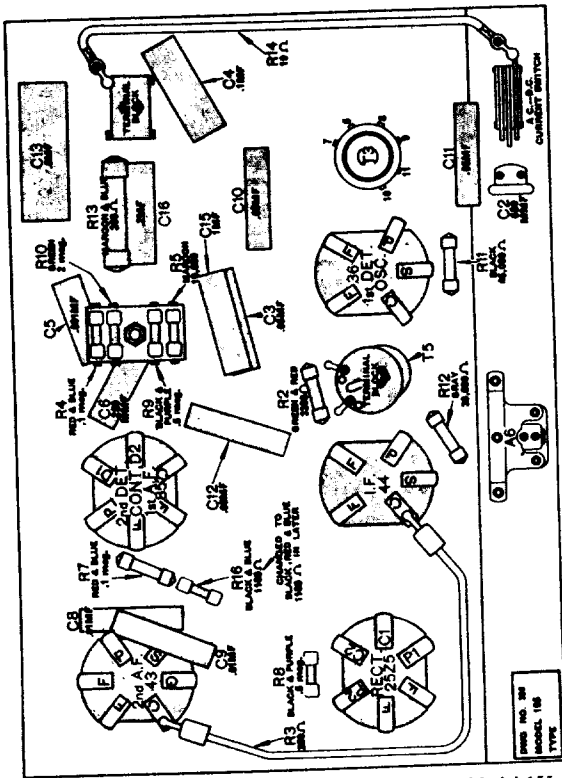
ATWATER KENT RADIO



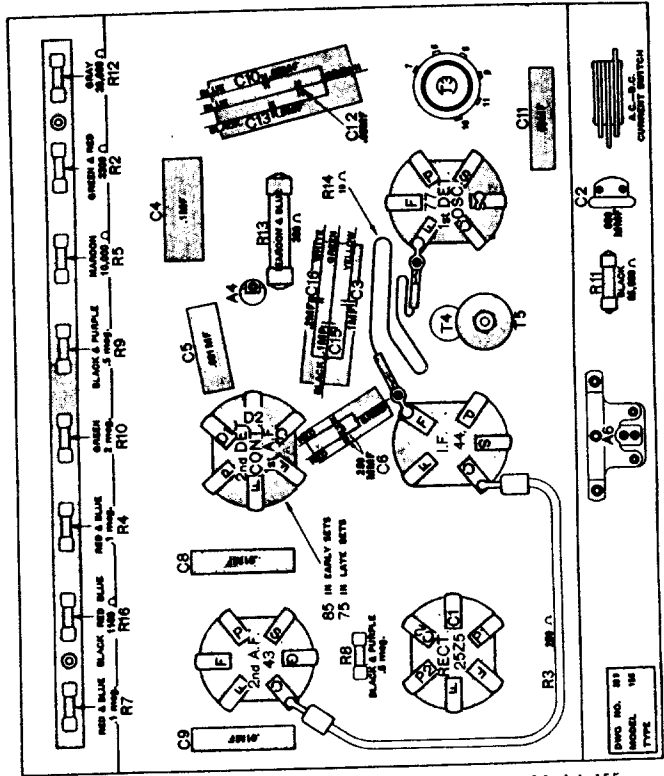
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

ATWATER KENT RADIO

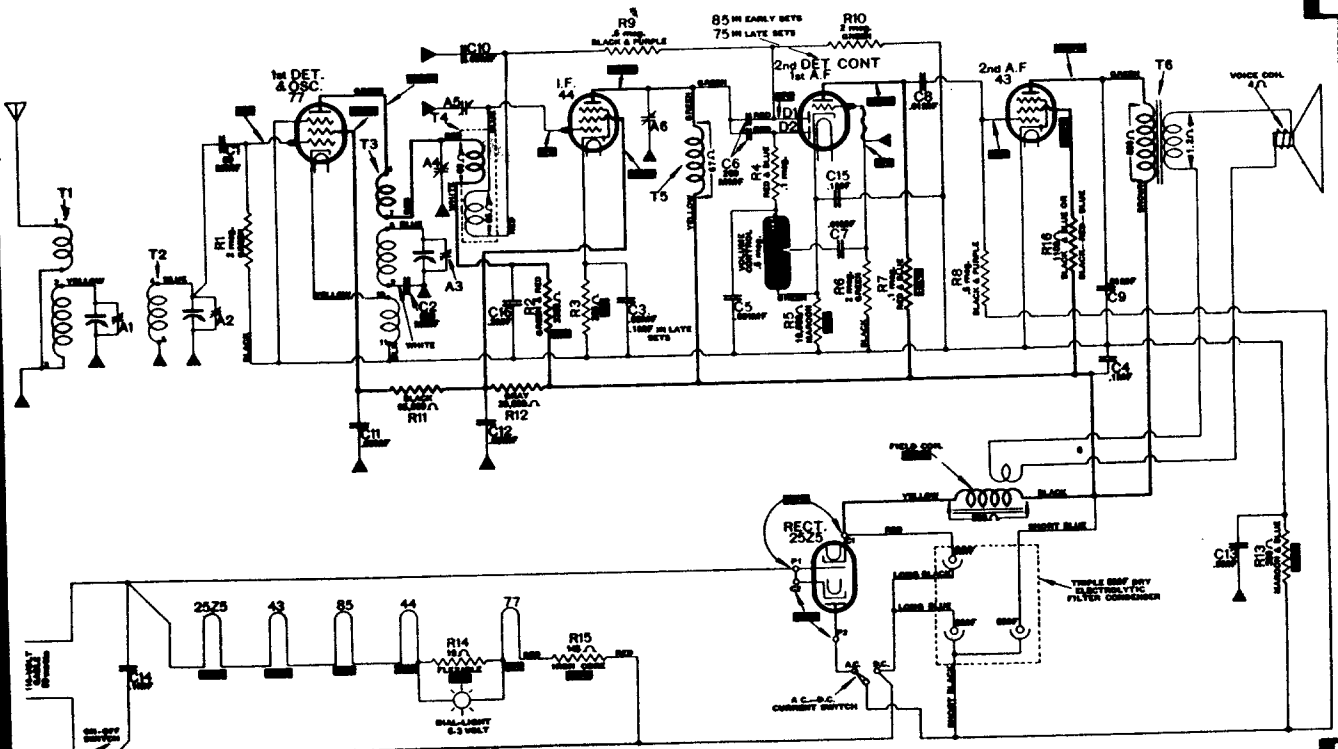
MODEL 155, 1st TYPE, Below Serial No. 7086900



First arrangement of parts under chassis in 1st-type Model 155.

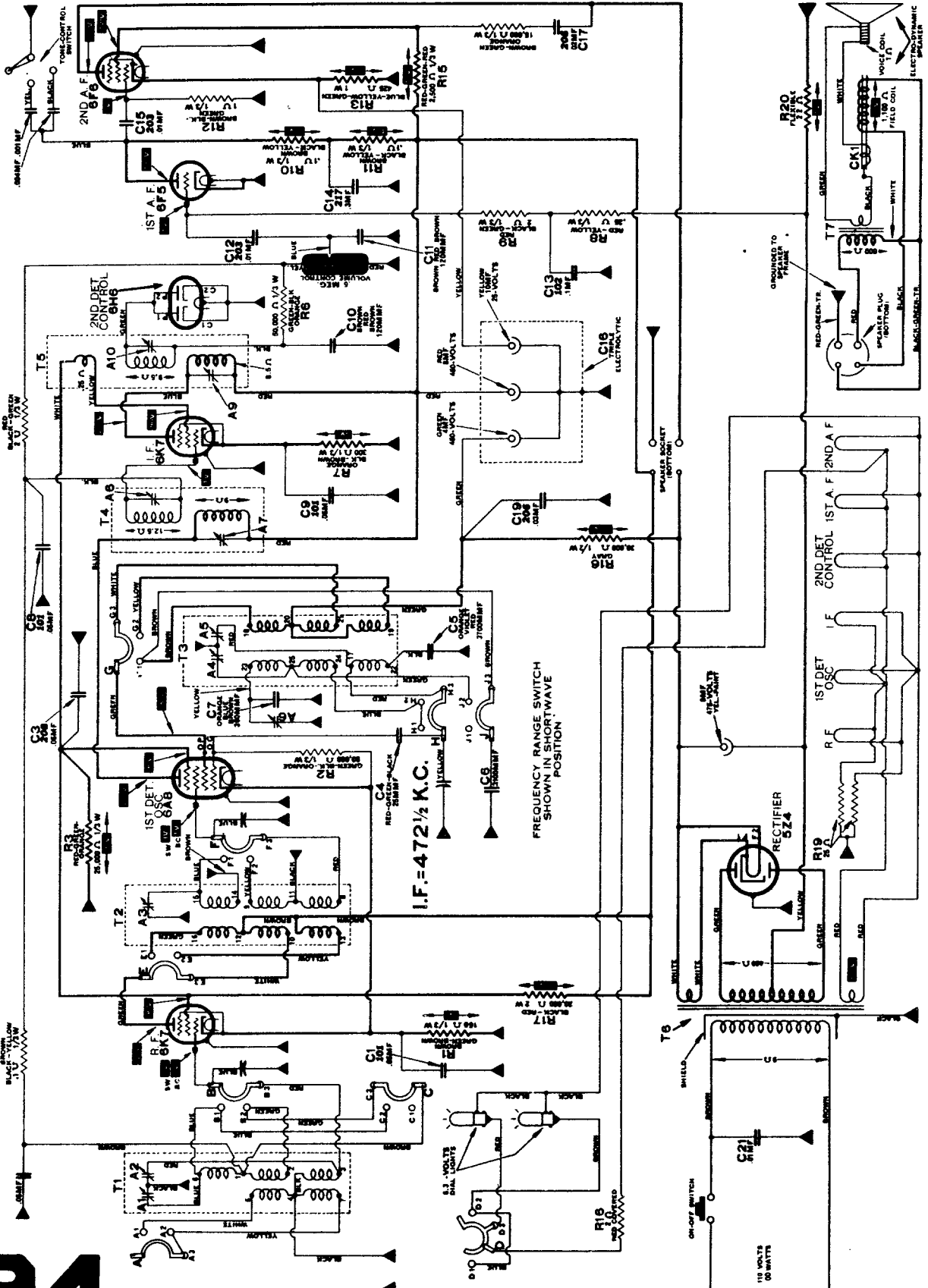


Third arrangement of parts under chassis in 1st-type Model 155.



MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS MODELS 317 AND 337

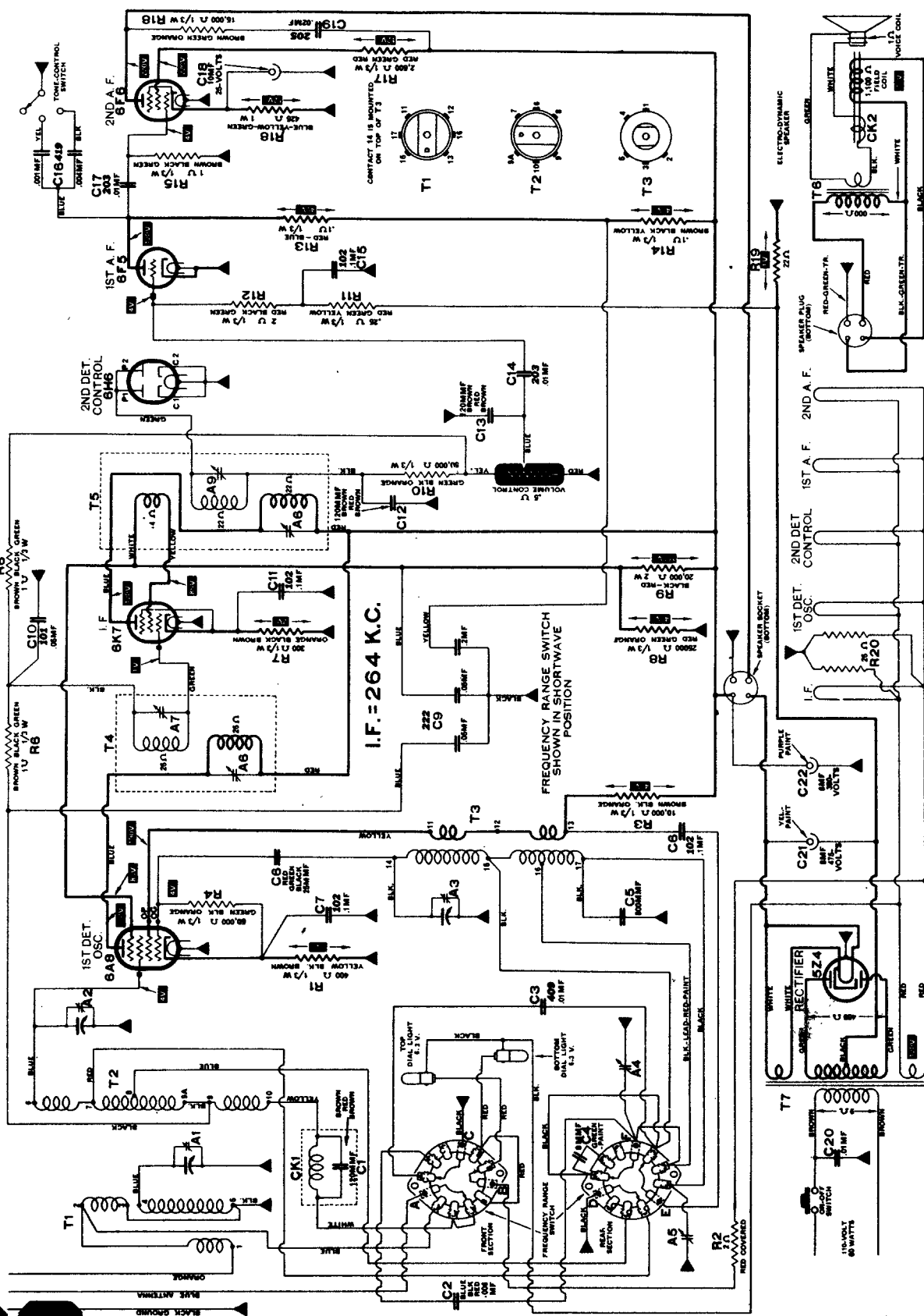
ATWATER KENT RADIO



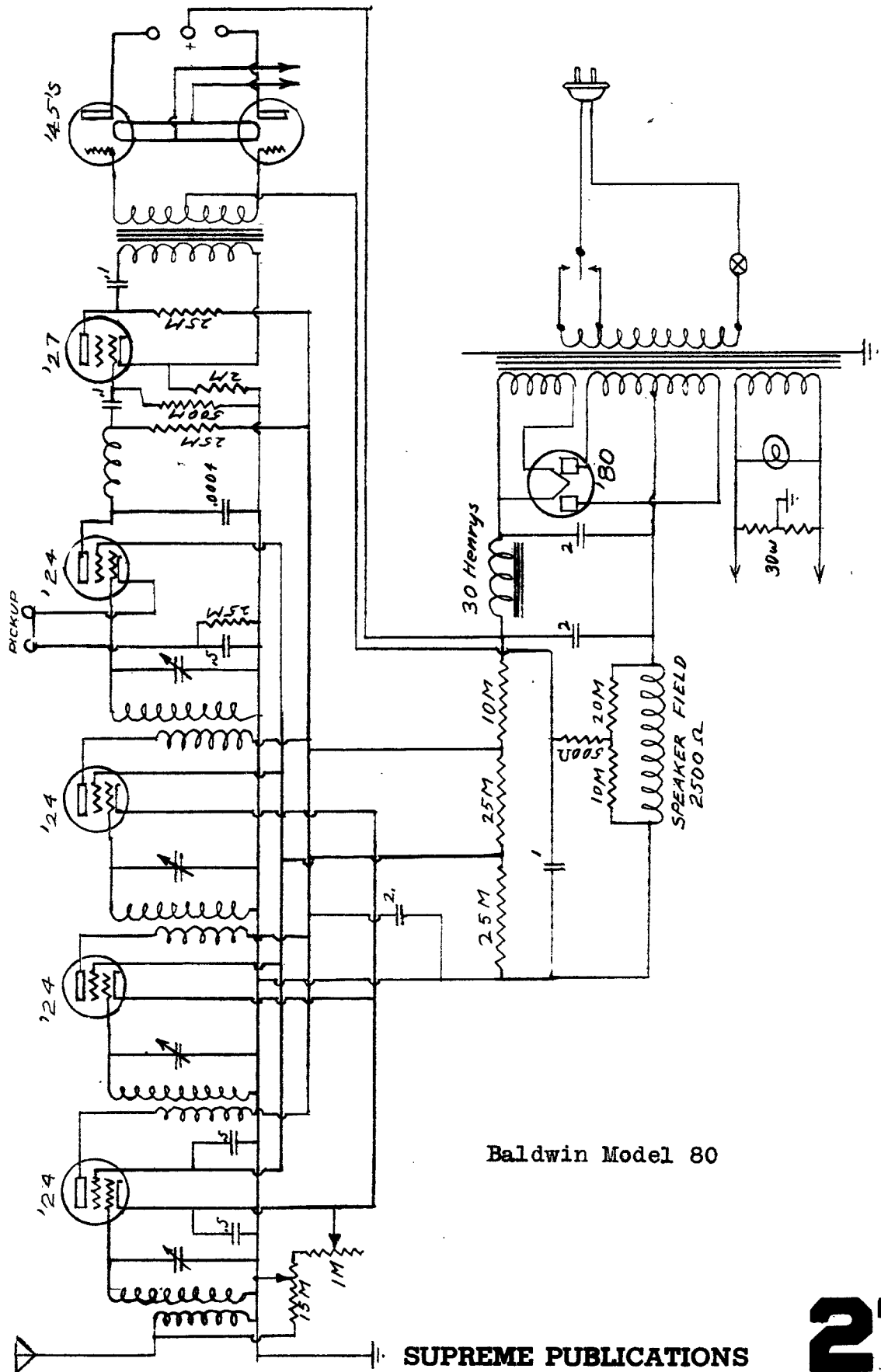
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

MODELS 856 AND 976

ATWATER KENT RADIO



MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

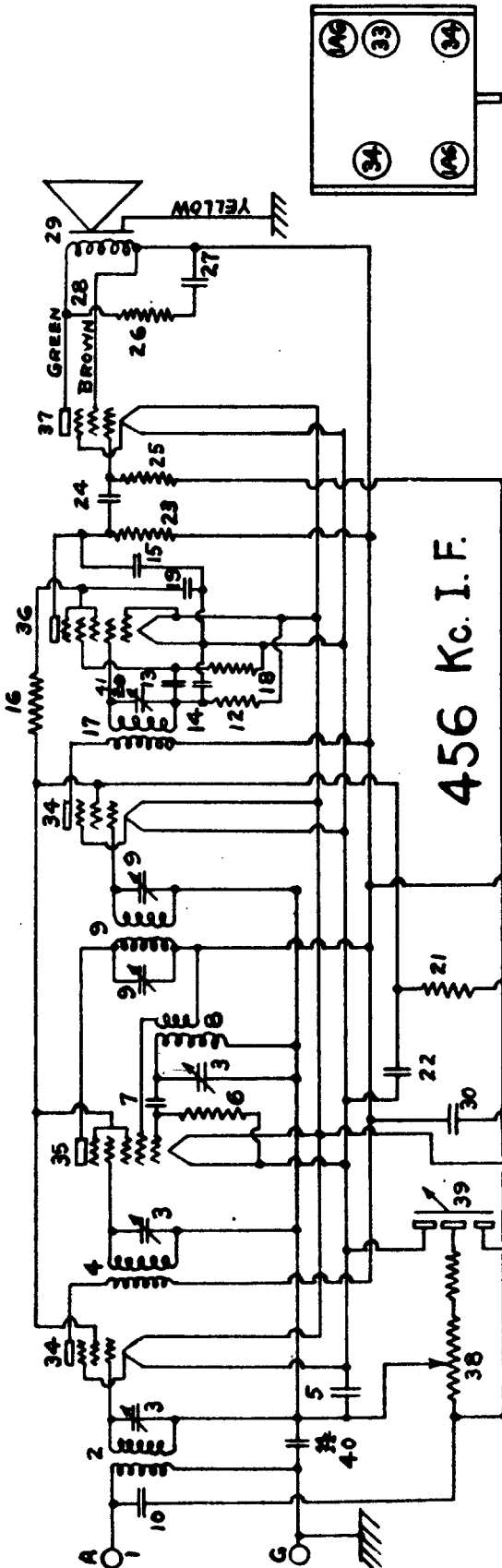


Baldwin Model 80

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

Wiring Diagram For Model 5B3

The Crosley Corp.



- | | | | |
|----|-----|----------|----------------------------|
| 21 | W | -21452 | 1,100 Ohms |
| 22 | W | -30321-A | 1.0 Mfd. 160 Volt |
| 23 | | 23785 | 500,000 Ohms |
| 24 | W | -28621 | 0.02 Mfd. 200 Volt |
| 25 | | 21454 | 1 Megohm |
| 26 | | 24814 | 7,000 Ohms |
| 27 | W | -28619 | .006 Mfd. |
| 28 | W | -27933 | Speaker Cable |
| 29 | | 30418 | 336-3B Speaker |
| 30 | W | -29910-A | 0.25 Mfd. 200 Volt |
| 31 | | 27121 | 5,000 Ohms |
| 32 | G2 | -29237 | Battery Cable |
| 33 | G2 | -23300 | Air Cell Resistor .53 Ohms |
| 34 | G31 | -27975 | 34 Socket |
| 35 | G55 | -27975 | 1A6 Socket |
| 36 | G4 | -33070 | 1A6 Flex. Socket |
| 37 | G36 | -27975 | 33 Socket |
| 38 | W | -32649 | { Volume Cont. 10,000 Ohms |
| 39 | | | { Switch 3. P. S. T. |
| 40 | W | -24049-B | O.1 Mfd. 200 Volt |

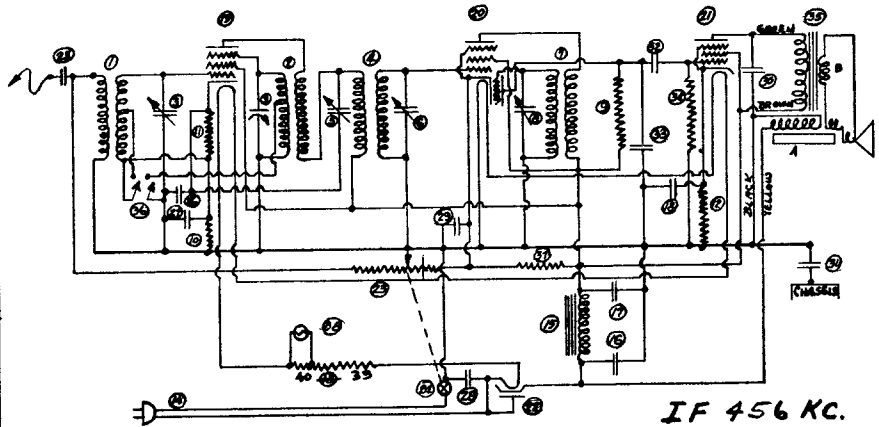
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|----|-----|----------|------------------------|
| 4 | G17 | -32001 | R. F. Transformer |
| 5 | W | -24049-B | 0.1 Mfd. 200 Volt |
| 6 | | 21875 | 100,000 Ohms |
| 7 | G1 | -34004 | .025 Mfd. (Mica) |
| 8 | G9 | -32002 | Oscillator Coil |
| 9 | G9 | -32004 | 1st I. F. Trans. |
| 10 | W | -28621 | .02 Mfd. 200 Volt |
| 12 | | 23785 | 500,000 Ohms |
| 13 | W | -28621 | .02 Mfd. 200 Volt |
| 14 | W | -26152-A | { .00015 Mfd. 400 Volt |
| 15 | | | { .0001 Mfd. 400 Volt |
| 16 | | 21237-A | 60,000 Ohms |
| 17 | G13 | -32004 | 2nd I. F. Trans. |
| 18 | | 21454 | 1 Megohm |
| 19 | W | -24049-B | 0.1 Mfd. 200 Volt |

Figures in first column correspond to figures in diagram

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

1	G1-2492A	ANTENNA COIL
2	G20-2493A	OSCILLATOR COIL
3	D-2492A	CHINA CONDENSER
4	W-2444A	131 F. TURNS
5	G8-2594B	14 LF. TUNING COND.
6	G9-2544B	14 MF. L.F. TRANS.
7	G9-2594A	2 MF. I.F. TUNING COND.
8	R4577	3.0 MEG.
9	2456B	2700 Ω
10	W-2452A	350 Ω
11	W-2451A	750 Ω
12	W-2452A	150 Ω
13	W-2452A	150 Ω
14	W-2452A	150 Ω
15	G1-2492A	CORDS & PLUG
16	G1-2492A	POWER SUPPLY FIL. COND.
17	W-2926A	16 MED. 125V. D.C.
18	W-2926A	16 MED. 100V. D.C.
19	W-2926A	16 MED. 10V. D.C.
20	W-2926A	7A SOCKET
21	W-2926A	6.7A SOCKET
22	W-2926A	3A SOCKET
23	W-2926A	1.2A SOCKET
24	W-2859A	VOLUME CONTROL
25	W-2862A	5.51. SWITCH
26	W-2862A	0.003 MED. 200V.
27	W-2862A	0.02 MED. 200V.
28	W-2862A	0.02 MED. 400V.
29	W-2862A	0.02 MED. 400V.
30	W-2926A	0.008 MED. 200V.
31	W-2926A	0.05 MED. 200V.
32	W-2926A	0.03 MED. 400V.
33	W-2926A	0.001 MED. 400V.
34	R657B	3.0 MEG.
35	R3A1B	346 Ω M. SPEAKER
36	R-2859A	P.P.S.T. SWITCH
37	R2199A	25.000 Ω
38	R-4099A	6.25. DIM. LIGHT
39	W-2397A	1.4 Ω
40	W-2397A	26.7 Ω
41		
42		
43		
44		
45		

Crosley Model 172



Control Grid Voltages

- Pentode .05 to 1.5
- I. F. 1.5 to 2.5 (20-30 vol. cont. off)
- 1st Det. .5 to 7.5
- 2nd Det. .4 to 6.0

Screen Grid Voltages

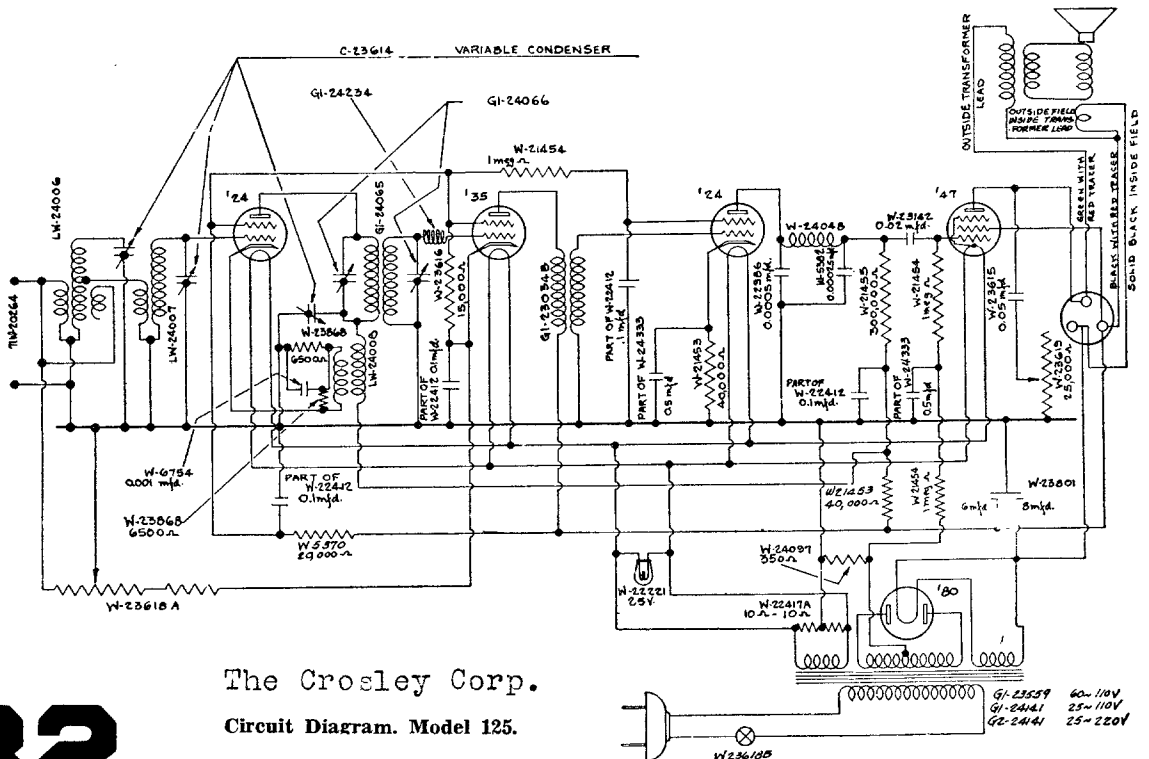
- Pentode .200 to 230
- I. F. 75 to 95
- 1st Det. .. 75 to 95
- 2nd Det. 15 to 25 (250V scale), 3-8 (50V scale)

Filament Voltages

- All tubes but rectifier 2.3 to 2.5
- Rectifier tube 4.6 to 5.0

Plate Voltages

- Pentode 200 to 230
- I. F. 200 to 230
- 1st Det. .160 to 180
- 2nd Det. 75 to 90 (250V scale), 20-30 (50V scale)

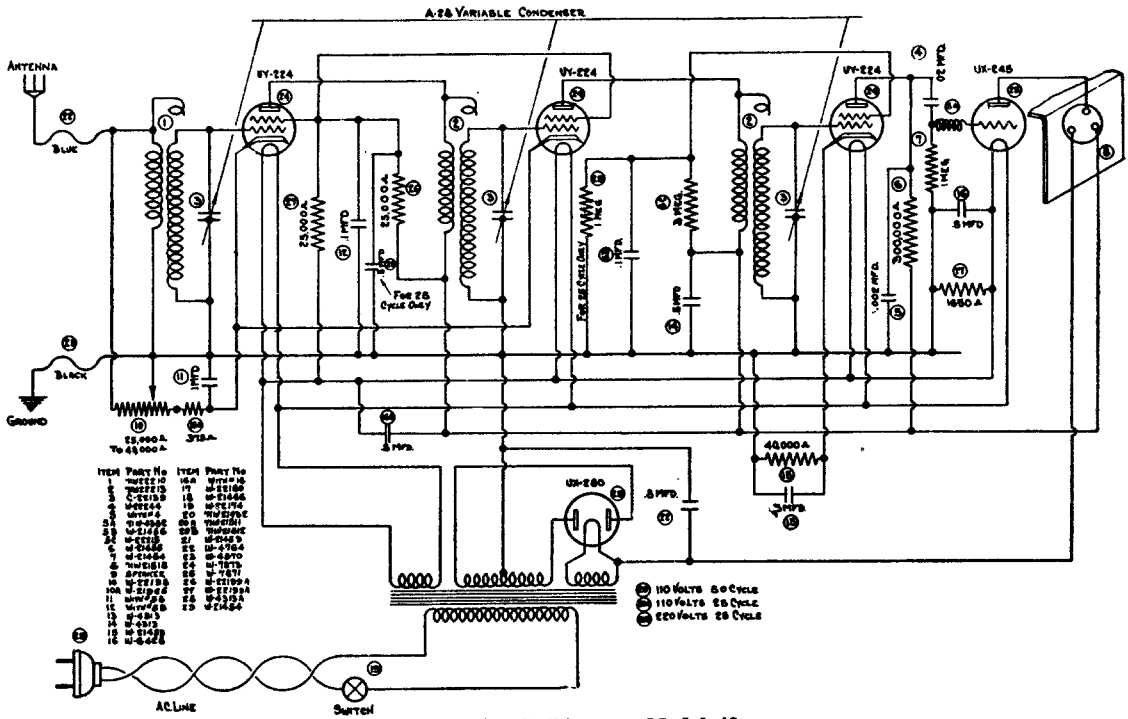


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Circuit Diagram. Model 125.

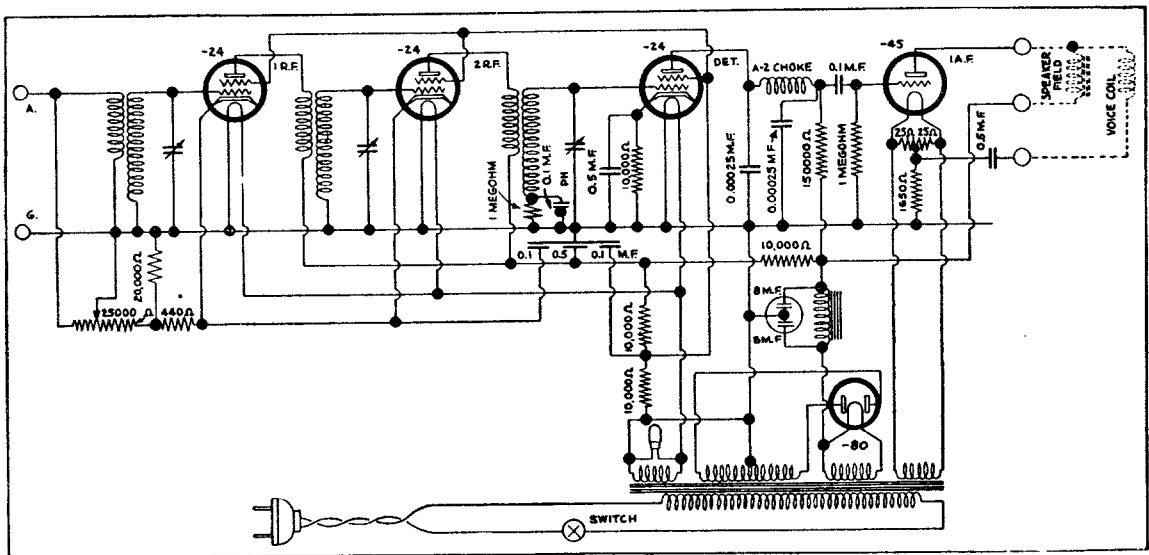
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

MODEL 48



The Crosley Corp.

Models 53, 54 and 57

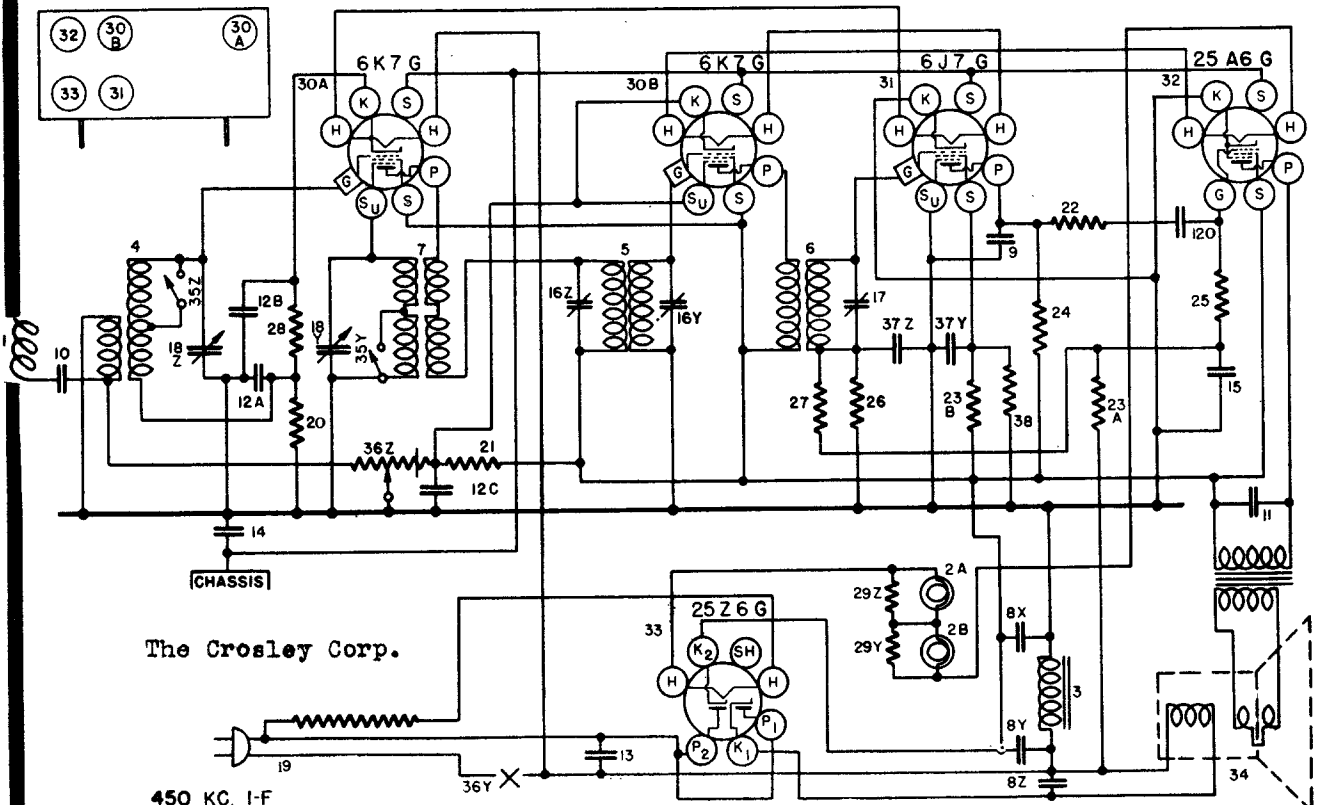


MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

MODEL 536 AND 5536

Figures in first column refer to parts in Diagrams.

Item No.	Part No.	Description	Item No.	Part No.	Description
1	W —29784B	Antenna—Flexible	19	W —41162	Drive Chain—5536 only
2A	W —4099B	Dial Light	20	W —41160	Bearing Bracket—5536 only
2B	W —4099B	Dial Light	21	W —41159A	Shaft—5536 only
3	G6 —27134	Dial Light Socket Assembly	22	W —40909	Spring Washer—5536 only
4	G4 —28859	Filter Choke	23	W —31840A	Snag Ring—5536 only
5	G106—32000	Ant. Coil	24	B —40999	Power Cord & Plug
6	G104—32004	1st I-F Coil	25	—36316	Resistor, 2700 Ohm 1/4 W.
7	G103—32004	2nd I-F Coil	26	—4921C	Resistor, 10,000 Ohm 1 W.
8	G94 —32002	Osc. Coil	27	—35928	Resistor, 60,000 Ohm 1/4 W.
87			28	23A —35600	Resistor, 100,000 Ohm 1/4 W.
8Y	W —29804A	Condenser, { 8 Mfd. 125 V. 16 Mfd. 125 V. 25 Mfd. 100 V.	29	23B —35600	Resistor, 100,000 Ohm 1/4 W.
8X			30	24 —35601	Resistor, 300,000 Ohm 1/4 W.
9	G1 —34002	Condenser, .0025 Mfd. (Molded)	31	25 —36322	Resistor, 500,000 Ohm 1/4 W.
10	W —28620	Condenser, .003 Mfd. 200 V.	32	26 —35927	Resistor, 2 Megohm 1/4 W.
11	W —23191A	Condenser, .01 Mfd. 400 V.	33	27 —33490	Resistor, 10 Megohm 1/4 W.
12A	W —36541	Condenser, .02 Mfd. 160 V.	34	28 W —28589	Resistor, 350 Ohm 1/2 W. Flex.
12B	W —36541	Condenser, .02 Mfd. 160 V.	35	29 W —41000	Candohm—2 Sections
12C	W —36541	Condenser, .02 Mfd. 160 V.	36A	G151—36400	Socket Type 6K7
12D	W —36541	Condenser, .02 Mfd. 160 V.	36B	G151—36400	Socket Type 6K7
13	W —32780B	Condenser, .05 Mfd. 400 V.	36C	G157—36400	Socket Type 6J7
14	W —24049C	Condenser, 1 Mfd. 160 V.	36D	G161—36400	Socket Type 25A6
16	W —37075	Condenser, 2 Section Trimmer	36E	G162—36400	Socket Type 25Z6
17	W —40998	Condenser, 1 Section Trimmer	37	W —40711	Tube Shield
18	G22 —33001	2 Section Var. Tuning Condenser	38	W —27981A	Tube Shield Base
	C —40926	Dial Glass—536 only	39	B —41012	Speaker 237BL9
	W —40632B	Pointer Disc—536 only	40	W —40593	Speaker Mtg. Bracket
	W —41014A	Dial Glass Bracket R-H—536 only	41	—6415	Mtg. Bracket Screw
	W —41013A	Dial Glass Bracket L-H—536 only	42	—41004	Band Selector Switch
	W —41227	Drive Chain—536 only	43	36Z } —41002	Volume Control 4800 Ohm Tap 160 Ohm
	W —40633B	Bearing Support—536 only	44	36Y } B —40590	Escutcheon
	W —41112A	Driven Sprocket—536 only	45	D —28	Escutcheon Mtg. Screws (4) } 536 only
	W —41113A	Driver Sprocket	46	W —41019	Knob
	W —40486	Pointer Disc Mtg. Screw	47	W —40839	Escutcheon
	C —40927	Dial Glass—5536 only	48	W —40840	Escutcheon Plate
	B —40818B	Pointer Disc—5536 only	49	W —29760A	Escutcheon Pin } 5536 only
	W —41158	Support Bracket L-H—5536 only	50	W —41019	Knob (2)
	W —41143	Support Bracket R-H—5536 only	51	W —41021	Knob (1)
	W —40797	Dial Glass Bracket—5536 only			



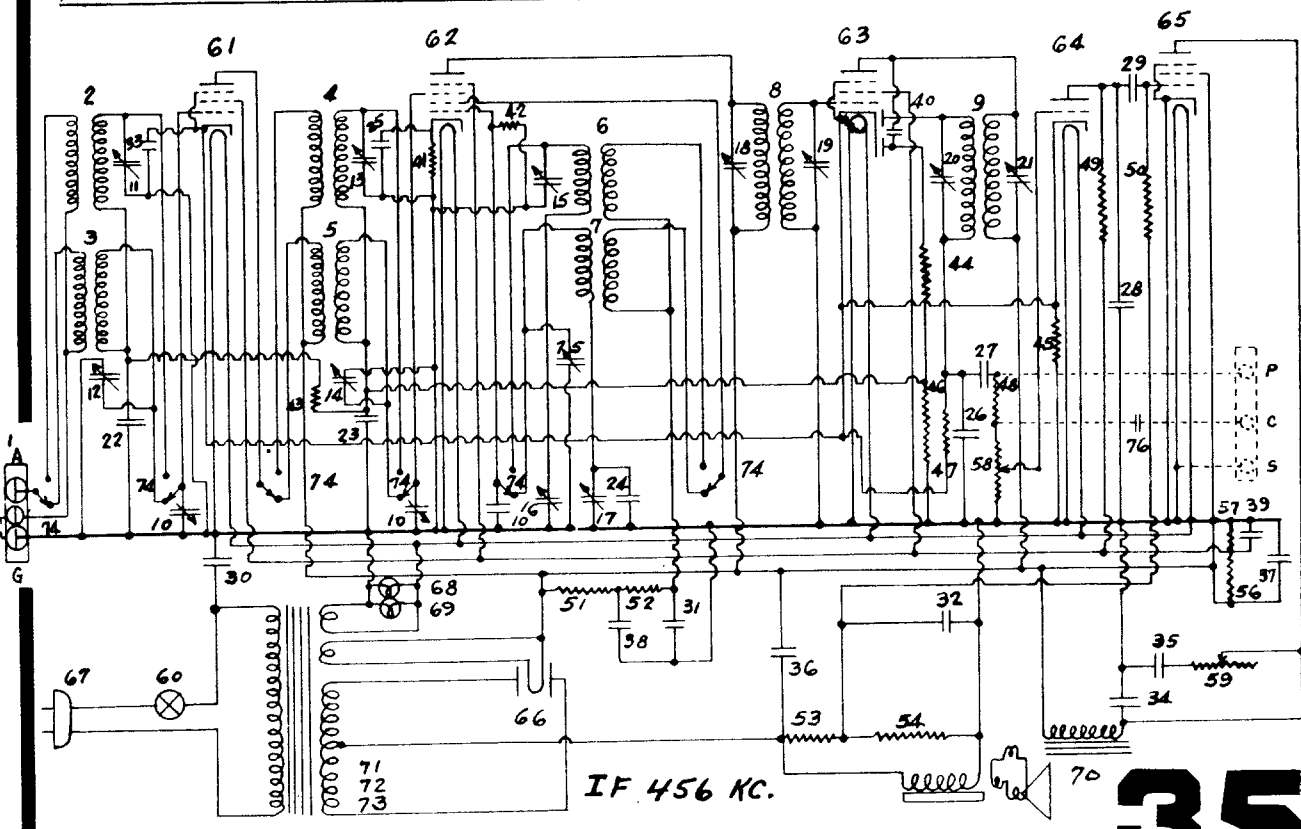
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MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

PARTS LIST—MODEL 6H2

* Figures in 2nd last column refer to parts shown in wiring diagram of Model 6H2

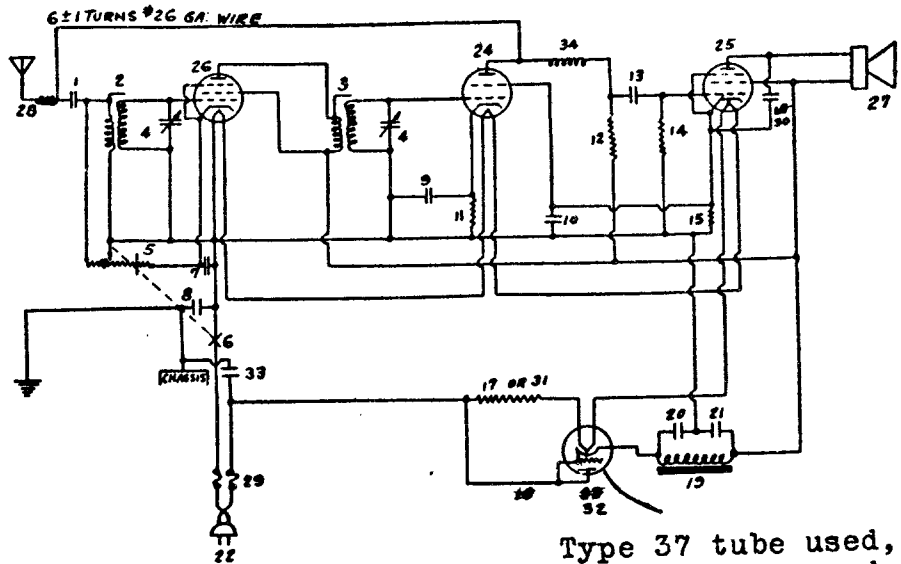
Qty.	Part No.	Description	Item	Qty.	Part No.	Description	Item
1	G3-32000	Antenna Coil (Low Freq.)	2	1	B30375A	Cable & Plug	67
1	G1-32002	Antenna Coil (High Freq.)	3	1	W28552	Level Control (Volume) (3 Megohms)	58
1	G2-32001	R. F. Trans. Coil (L. F.)	4	2	G4-27134	Dial Light Brkt Assm.	
1	G1-32001	R. F. Trans. Coil (H. F.)	5	1	W25594B	Tone Control (80000 Ohm) & Line Switch	59-60
1	G2-32002	Oscillator Coil (L. F.)	6	1	G16-26719	Ant.-Gnd. Terminal	1
1	G1-32002	Osc. Coil (H. F.)	7	FILTER & BY-PASS CONDENSERS			
1	G9-32004	1st I. F. Trans. (With Trimmers)	8-19	1	W29097C	8-.8-.8 Mfd. 450 V.-450 V.-250 V.	37-38
1	G10-32004	2nd I. F. Trans. (With Trimmers)	9-20	1	W26194B	12. Mfd. 475 V.	39
6	W25200	Coil Shield Socket	21	1	W30321	1. Mfd. 160 V.	36
3	W30802	Coil Shield		3	W32379	0.02 Mfd. 200 V.	32
2	W25025A	Coil Shield		1	W32304	0.0014 Mfd.	25
1	W25025A	Coil Shield		1	W30322A	0.00017-0.006 Mfd. 200 V.-200 V.	24
3	W26891	Insulating Washer L. F. Ant.-R. F. and Osc.	2-4-6	1	W25537A	0.001-0.03 Mfd. 400 V.-400 V.	28-29
3	W21541B	Retaining Ring	2-4-6	1	W30805	0.01 Mfd. 400 V.	30
2	W30026	Retaining Ring	3-5-7	1	W32378	0.01 Mfd. 400 V.	31
1	G1-33008	L. F. & H. F. Antenna Trimmer Cond.	11-12	1	W24784	0.25 Mfd. 200 V.	33
1	G1-33008	L. F. & H. F. R. F. Trimmer Cond.	13-14	1	W25517	0.008-0.05 Mfd. 400 V.-400 V.	34-35
1	G15-33009	L. F. & H. F. Osc. Trimmer Condenser	15-75	1	W27540	0.0005 Mfd. 400 V.	40
1	G2-33007	L. F. & H. F. Osc. Seriale Trimmer Cond.	16-17	RESISTORS			
1	G19-33002	Variable Tuning Condenser Gang	10	1	W28589	350 Ohms (Flexible)	41
1	G5-32066	Dial Drive Assm.		1	21453	40000 Ohms	42
1	W32208A	Dial Hand		4	23785	500000 Ohms	43-48
2	W32293	Dial Hand Nut		2	26577	3 Megohms	44-46
1	G75-27456	6D6 Socket	61	1	W27504	100 Ohms (Flexible)	45
1	G47-27456	6A7 Socket	62	1	21454	1 Megohm	47
1	G48-27456	6B7 Socket	63	1	23403	150000 Ohms	49
1	G80-27456	76 Socket	64	1	21876	10000 Ohms	51
1	G25-27456	42 Socket	65	4	24814	7000 Ohms	52
1	G6-27456	80 Socket	66	1	33474	120000 Ohms	54
3	W26010	Tube Shield Base		1	W31883	8500-25000 Ohms	56-57
2	W27328A	Tube Shield (6A7, 6B7)		1	W32352	Knob	
1	B26009C	Tube Shield (6D6)		3	W32353	Knob	
1	G6-30745	Power Transformer 60 cy. 110 V.	71	1	W31007A	Speaker Cord (4 Lead)	
1	G7-30745	Power Transformer 25 cy. 110 V.	72	1	W32219A	Dial Glass	
1	G8-30745	Power Transformer 25 cy. 220 V.	73	1	W32230A	Dial Glass Retainer	
1	B32285	Band Change Switch	74	1	B32190C	Escutcheon	
				1	W33106A	Escutcheon Gasket	
				4	D28	Escutcheon Screws (.10 doz)	



MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

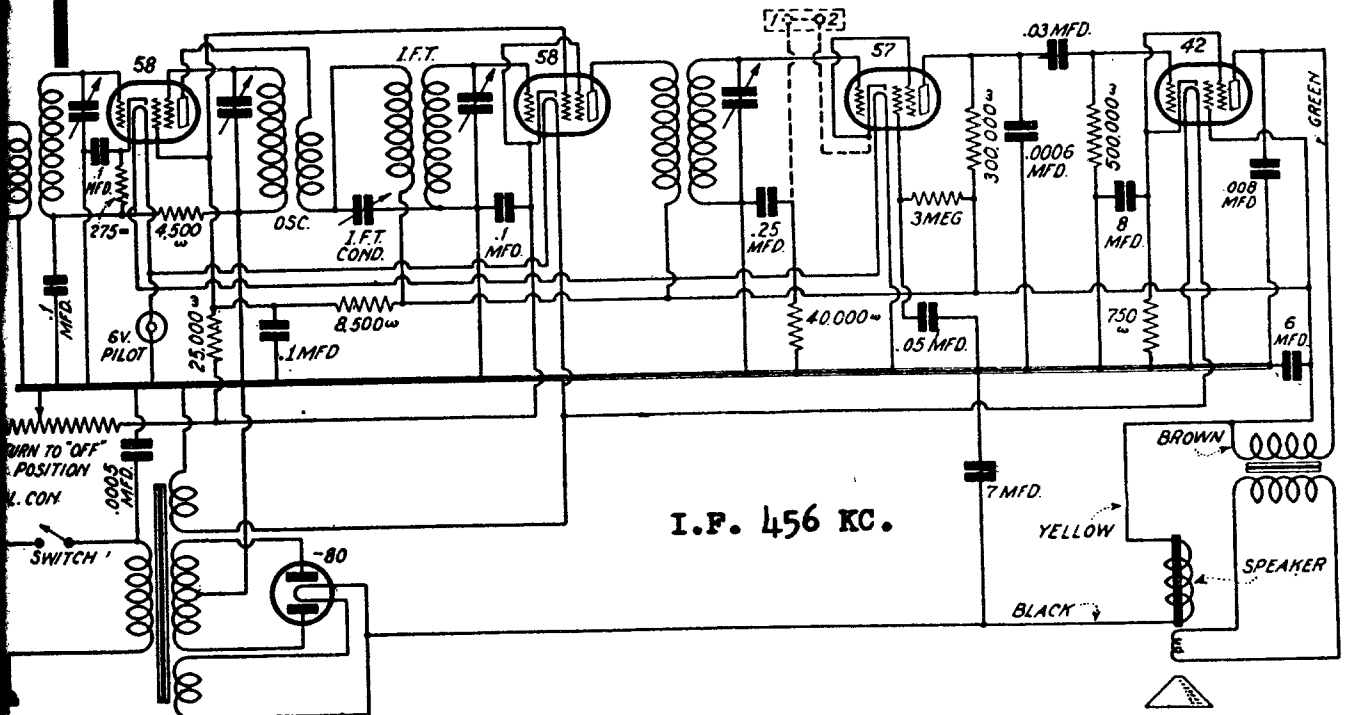
Crosley Model 147

1	W-27652	.003 MFD.
2	W-27640	ANTENNA COIL
3	W-27681	INTERSTAGE COIL
4	B-27706	TUNING CONDENSER
5	W-27694	VOLUME CONT. 4500 Ω
6		LINE SWITCH
7	W-25438	.1 MFD.
8		.1 MFD.
9	W-27671A	.8 MFD.
10		.8 MFD.
11	W-21237A	60,000 Ω
12	W-26577	3 MEG.
13	W-27203	.02 MFD.
14	W-2657B	5 MEG.
15	W-26690	4500 Ω
16	W-26438	.003 MFD.
17	W-27675	300 Ω RED PWR.
18	W-26438	.003 MFD.
19	6Z-2475	FILTER CHOK
20		4 MFD.
21	W-2767C	.003 MFD.
22	W-27815	CORD & PLUG
23		SOCKET
24	6L-27127	-36 SOCKET
25	6L-27127	-3A SOCKET
26	6L-27127	-39 SOCKET
27	27790	340 SPEAKER
28	W-26072	ANTENNA LEAD
29	W-4639C	2 AMP. FUSE
30	W-27652	.003 MFD.
31	W-28100	300 Ω CARBON
32	6L-27127	-37 SOCKET
33	W-27652	.003 MFD.
34	6L-24234	FILTER CHOK



Type 37 tube used,
Early models used
type KR tube.

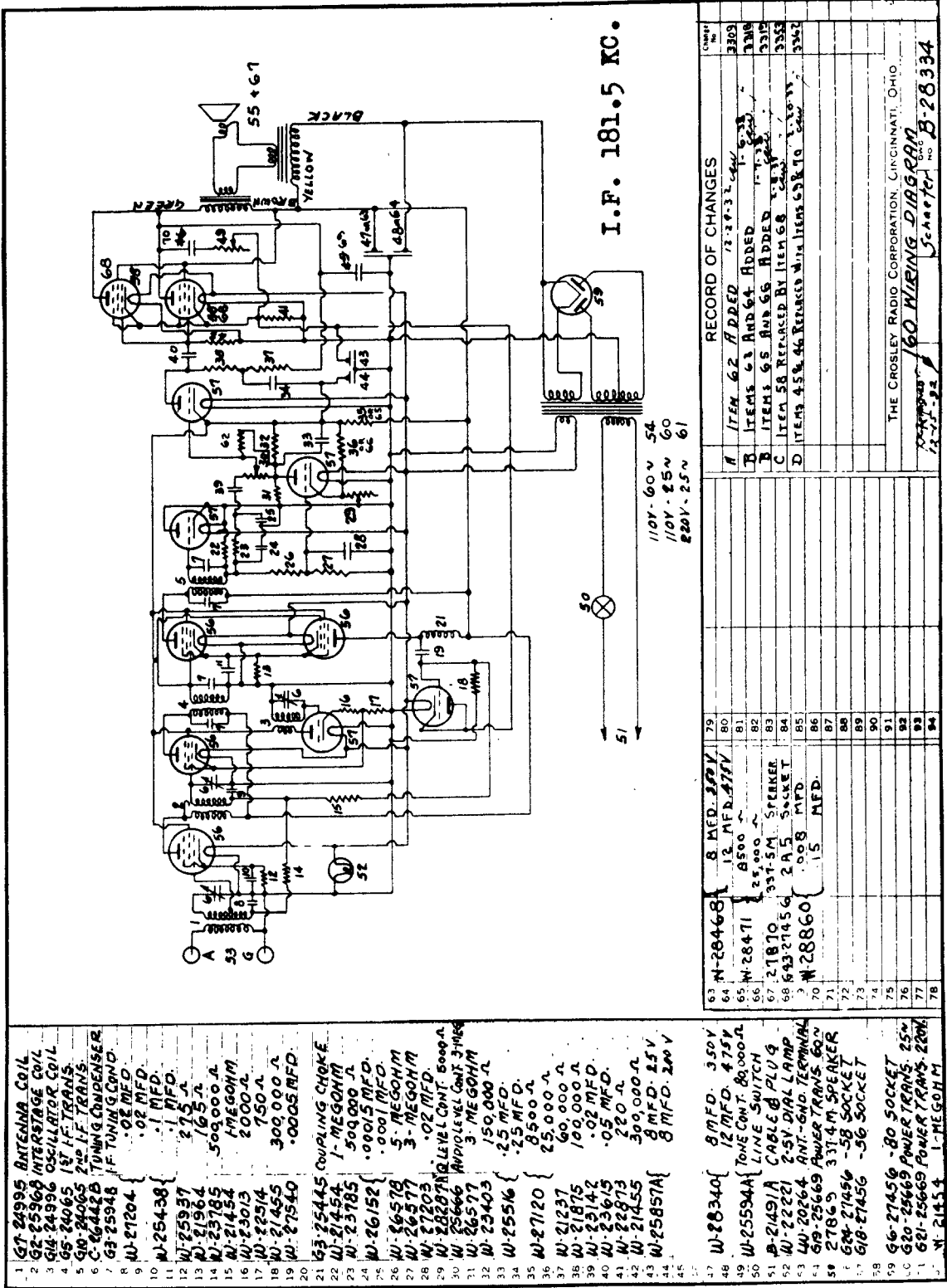
Crosley Model 148



I.F. 456 KC.

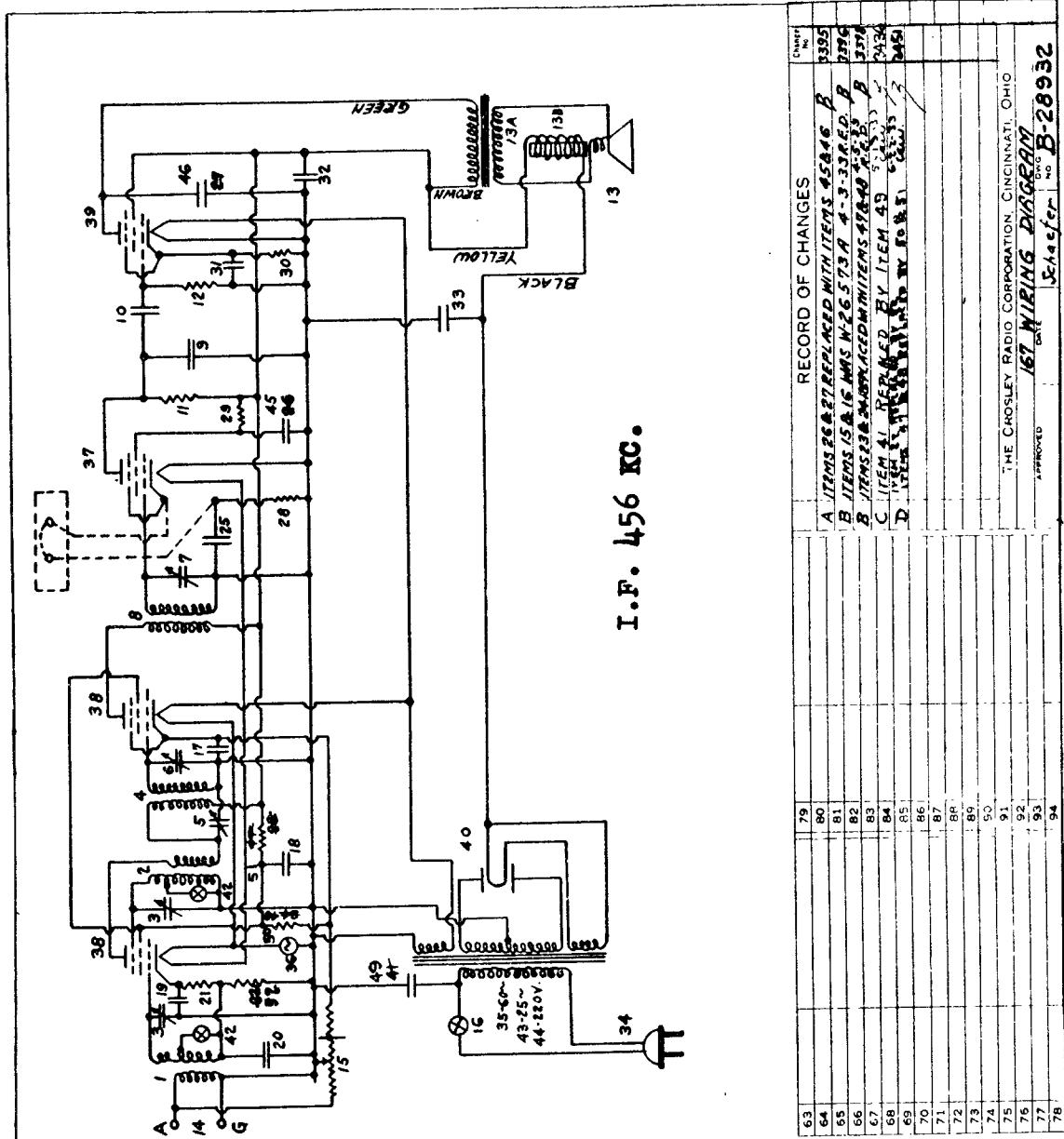
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

Model 160



- 1 G1-24995 ANTENNA COIL
- 2 G2-25968 INTERSTAGE COIL
- 3 G4-24996 OSCILLATOR COIL
- 4 G5-24065 1ST I.F. TRANS.
- 5 G10-24065 2nd I.F. TRANS.
- 6 C-46442B TUNING CONDENSER
- 7 G3-25948 I.F. TUNING COND.
- 8 W-27204 {
- 9 .02 MFD.
- 10 .1 MFD.
- 11 .1 MFD.
- 12 W-25937 275 Ω
- 13 W-21964 165 Ω
- 14 W-25785 500,000 Ω
- 15 W-21452 1 MEGOHM
- 16 W-25013 2000 Ω
- 17 W-22514 750 Ω
- 18 W-21455 300,000 Ω
- 19 W-27540 .0005 MFD.
- 20 G3-25445 COUPLING CHOKE
- 21 W-21454 1 MEGOHM
- 22 W-25785 500,000 Ω
- 23 W-26152 .0001 MFD.
- 24 W-26578 5 MEGOHM
- 25 W-26577 3 MEGOHM
- 26 W-27203 .02 MFD.
- 27 W-28207A LEVEL CONT. 5000 Ω
- 28 W-25966 AUDIO LEVEL CONT. 340 Ω
- 29 W-26577 3 MEGOHM
- 30 W-23403 150,000 Ω
- 31 W-25516 .25 MFD.
- 32 W-27120 25,000 Ω
- 33 W-21237 60,000 Ω
- 34 W-21875 100,000 Ω
- 35 W-23142 .02 MFD.
- 36 W-23615 .05 MFD.
- 37 W-22873 220 Ω
- 38 W-21455 300,000 Ω
- 39 W-25877A {
- 40 8 MFD. 1.5V
- 41 8 MFD. 200V
- 42 8 MFD. 350V
- 43 12 MFD. 475V
- 44 12 MFD. 475V
- 45 25,000 Ω
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- 94 25,000 Ω

Model 167



I.F. 456 KC.

1	650-24995	ANTENNA COIL
2	W-24996	OSCILLATOR COIL
3	L-27426	VARIABLE CONDENSER
4	W-26444	1ST I.F. TRANS.
5	W-25948	DET. & AMP. TRANS. (50-)
6	W-25004A	1ST I.F. TRANS. (200V)
7	W-27154B	2ND I.F. TRANS.
8	W-25445	2ND I.F. TRANS.
9	W-25371A	0.0006 MFD 400V
10	W-21455	0.03 MFD 400V
11	W-23785	300,000 Ω
12	W-27610	335-3 SPEAKER
13	W-20264	ANT.-GND. TERM.
14	W-26573B	VOLUME CONTROL
15	W-25438	LINE SWITCH
16	W-25438	0.1 MFD 200V
17	W-25438	0.1 MFD 200V
18	W-25438	0.1 MFD 200V
19	W-25937	0.1 MFD 200V
20	W-20090	0.1 MFD 200V
21	W-27201	0.0002 MFD
22	W-27201	0.0002 MFD
23	W-27201	0.0002 MFD
24	W-27201	0.0002 MFD
25	W-24784	0.25 MFD 200V
26	W-25514A	0.0002 MFD
27	W-25514A	0.0002 MFD
28	W-21453	40,000 Ω
29	W-26577	3 MEG
30	W-23907	750 Ω
31	W-27488	8 MFD 25V
32	W-27488	6 MFD 40V
33	W-23701B	CORD & PLUG
34	W-21491A	CORD & PLUG
35	W-23559	POWER TRANS (50-)
36	W-4099A	6V DIALLIGHT
37	W-27456	-57 SOCKET
38	W-27456	-58 SOCKET
39	W-27456	-42 SOCKET
40	W-27456	-80 SOCKET
41	W-27456	0-0-0-0-0-0
42	W-27456	0-0-0-0-0-0
43	W-27456	0-0-0-0-0-0
44	W-27456	0-0-0-0-0-0
45	W-27456	0-0-0-0-0-0
46	W-27456	0-0-0-0-0-0
47	W-27456	0-0-0-0-0-0
48	W-27456	0-0-0-0-0-0
49	W-27456	0-0-0-0-0-0
50	W-27456	0-0-0-0-0-0
51	W-27456	0-0-0-0-0-0
52	W-27456	0-0-0-0-0-0
53	W-27456	0-0-0-0-0-0
54	W-27456	0-0-0-0-0-0
55	W-27456	0-0-0-0-0-0
56	W-27456	0-0-0-0-0-0
57	W-27456	0-0-0-0-0-0
58	W-27456	0-0-0-0-0-0
59	W-27456	0-0-0-0-0-0
60	W-27456	0-0-0-0-0-0
61	W-27456	0-0-0-0-0-0
62	W-27456	0-0-0-0-0-0

Chart No.	RECORD OF CHANGES
63	
64	
65	A ITEMS 26 & 27 REPLACED WITH ITEMS 45 & 46 B
66	B ITEMS 15 & 16 HAS N-26.573A 4-3-33 RE D B
67	B ITEMS 23 & 24 REPLACED WITH ITEMS 47 & 48 B
68	C ITEM 41 REPLACED BY ITEM 43 B
69	D ITEM 34 REPLACED BY ITEM 35 B
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THE CHOSLEY RADIO CORPORATION, CINCINNATI, OHIO
 APPROVED BY: *Schaefer* NO. B-28932

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

The Crosley Radio Corporation, Cincinnati, Ohio

Model 168

Specifications

Model 168 is a seven tube dual band super-heterodyne designed for operation from A.C. electric circuits. The intermediate frequency is 181.5 Kc.

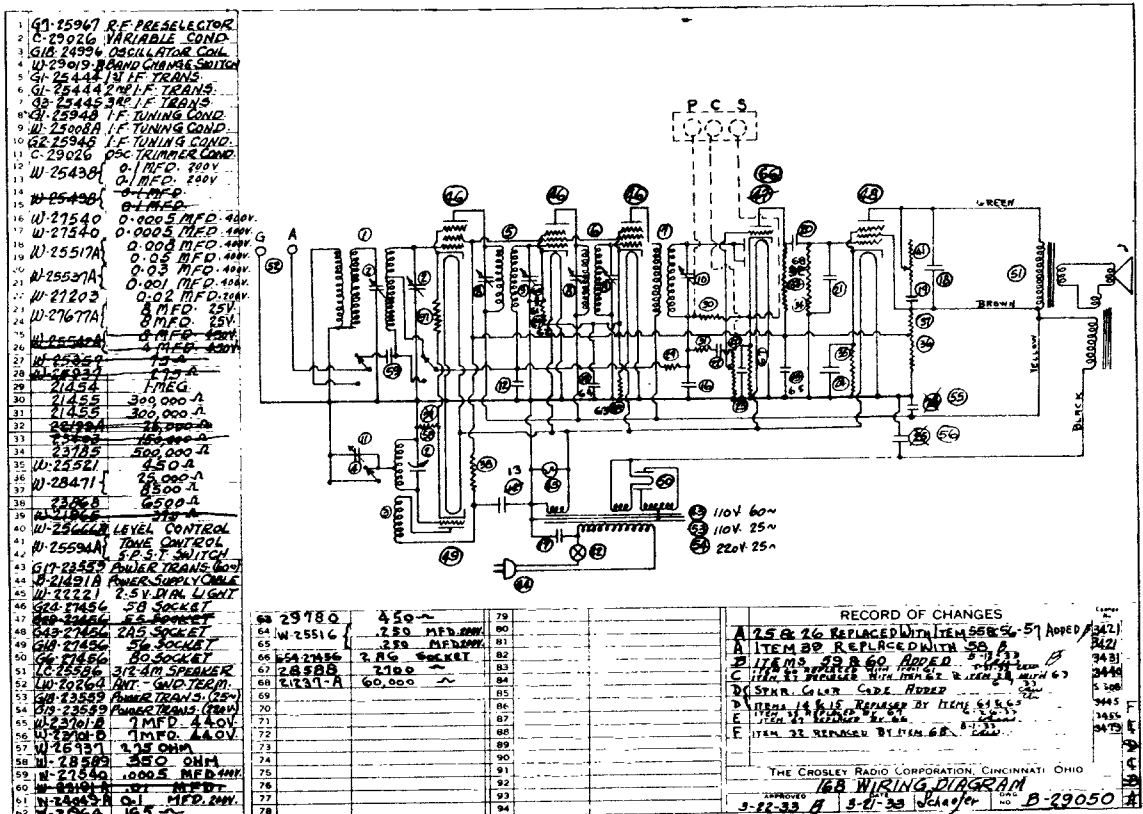
Tubes and Voltage Limits

The following are the tubes and voltages

measured with the receiver in operating condition but with no signal to the antenna circuit. Line voltage should be 117.5 volts (235 volts for 220 volt receivers). All voltages, except filament, are measured from tube contact to chassis with a 500 volt D.C. voltmeter (1000 ohms per volt). Filament voltages are measured with a low range A.C. voltmeter.

Tube	Position	Plate	Screen Grid	Cathode	Suppressor Grid	Filament
56	Oscillator	66		6.5		2.5
58	Modulator	270	122	8.0	8.0	2.5
58	I. F. Amplifier	270	122	8.5	8.5	2.5
58	I. F. Amplifier	270	122	7.0	7.0	2.5
2A6	Detector and A. F. Amplifier	231		2.0		2.5
2A5	Output	257	270	18.0		2.5
80	Rectifier	380				4.9

Voltage limits are plus or minus 10% of values given.



MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

The Crosley Radio Corporation, Cincinnati, Ohio

Model 169

Specifications

Model 169 is a four tube dual band super-heterodyne designed for operation from A.C. electric circuits. The intermediate frequency is 456 Kc.

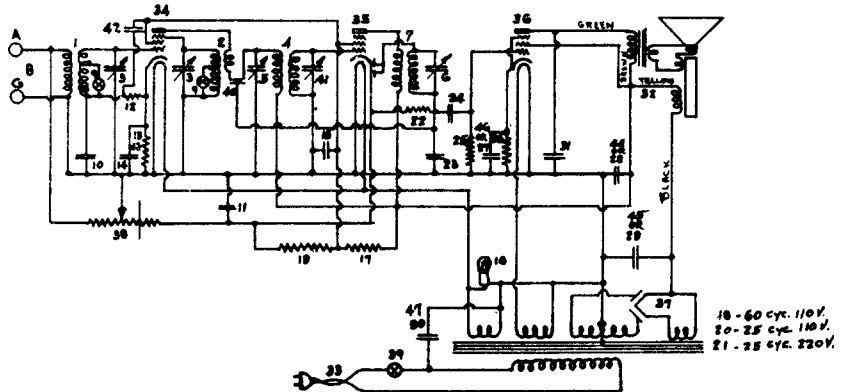
Tubes and Voltage Limits

The following are the tubes and voltages measured with the receiver in operating con-

dition but with no signal to the antenna circuit, with a line voltage of 117.5 volts (235 volts for 220 volt receivers). All voltages, except filament, are measured with a 500 volt D.C. voltmeter (1000 ohms per volt) from tube contact to chassis. Filament voltages are measured with a low range A.C. voltmeter.

Tube	Position	Plate	Screen Grid	Cathode	Suppressor Grid	Filament
58	Oscillator-Modulator	188	88	28	0	2.5
2B7	I. F. Amplifier and Detector	188	88	2		2.5
42	Output	178	188	14.5		2.5
80	Rectifier	322				4.9

Voltage limits are plus or minus 10% of values given.



31	32
33	34
35	36
37	38
39	40
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43	44
45	46
47	48
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57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

RECORD OF CHANGES		
D	ITEM 18 REPLACED BY ITEM 48	4-11-38
E	ITEM 26 REPLACED BY ITEM 87	4-11-38
F	ITEM 42 HAS W-27200 SOCKET INSTEAD OF 27201	4-11-38

THE CROSLY RADIO CORPORATION, CINCINNATI, OHIO
169 WIRING DIAGRAM
 APPROVED: 4-11-38 *Schaefer* NO. B-29074

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

The Crosley Radio Corporation, Cincinnati, Ohio

Model 170

Specifications

Model 170 is a ten tube dual band super-heterodyne designed for operation from A.C. electric circuits. The intermediate frequency used is 181.5 Kc.

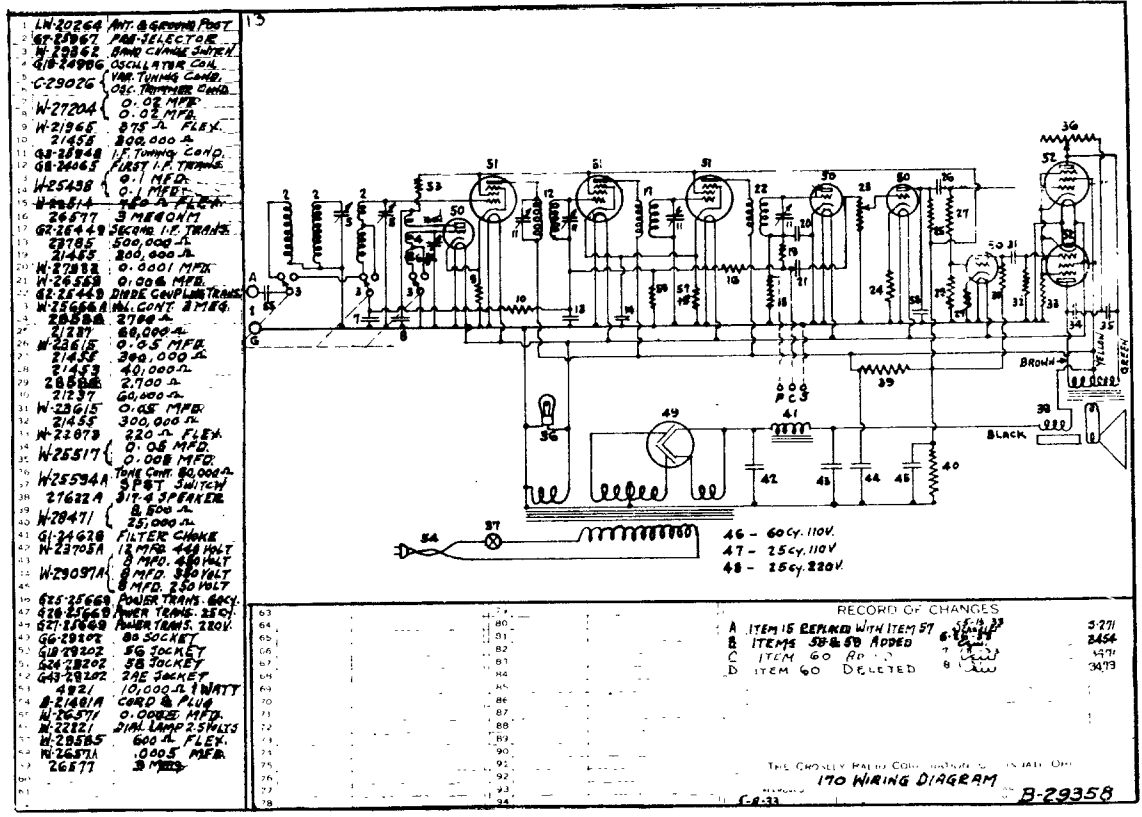
Tubes and Voltage Limits

The following are the tubes and voltages measured with the receiver in operating con-

dition but with no signal to the antenna circuit, and with a line voltage of 117.5 volts (235 volts for 220 volt receivers). All voltages, except filament, are measured with a 500 volt D.C. voltmeter (1000 ohms per volt) from tube contact to chassis. Filament voltages are measured with a low range A.C. voltmeter.

Tube	Position	Plate	Screen Grid	Cathode	Suppressor Grid	Filament
58	Modulator	276	120	6.0	6.0	2.5
56	Oscillator	50		6.0		2.5
58	I. F. Amplifier	276	120	8.0	8.0	2.5
58	I. F. Amplifier	276	120	8.0	8.0	2.5
56	Detector	0				
56	Phase Shifter	55		0		2.5
56	A. F. Amplifier	56		2.0		2.5
2-2A5	Output	269		3.0		2.5
80	Rectifier	355	276	18.0		2.5
						4.9

Voltage limits are plus or minus 10% of values given.



MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

The Crosley Radio Corporation, Cincinnati, Ohio

Model 171

Specifications

Model 171 is a twelve tube dual band superheterodyne designed for operation from A.C. electric circuits. The intermediate frequency is 181.5 Kc.

Voltages and Tube Limits

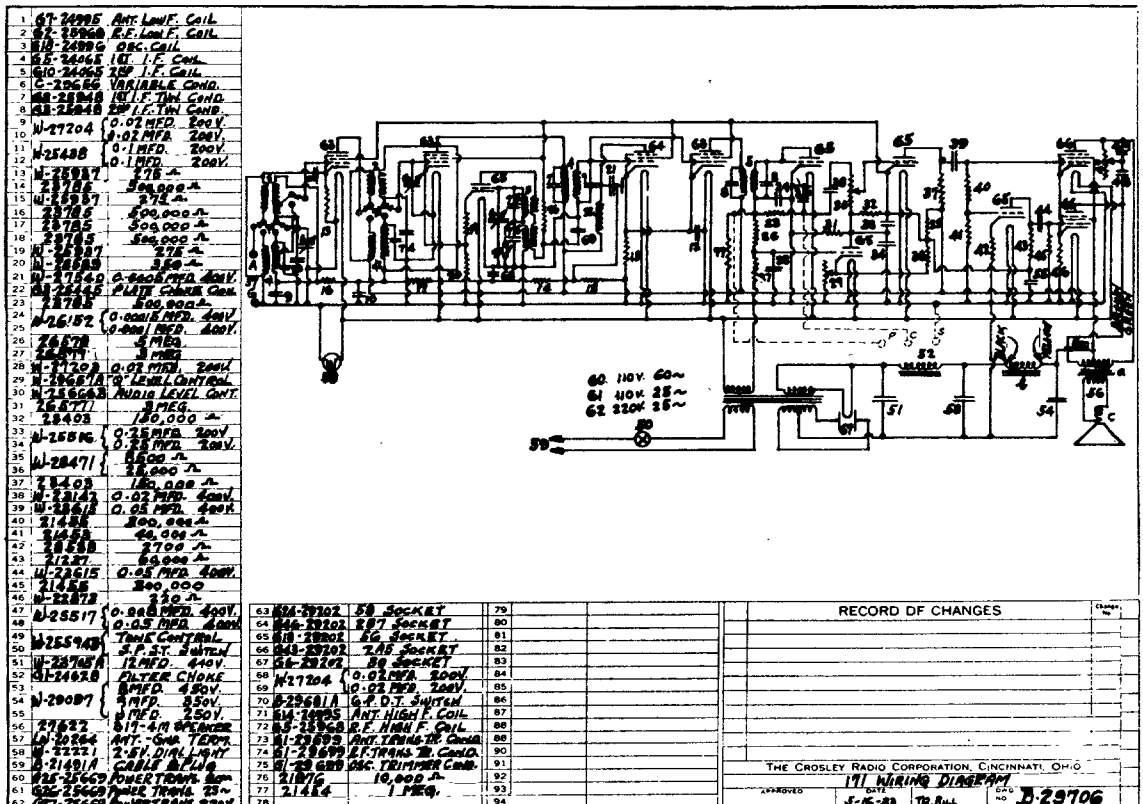
The following are the tubes and voltages measured with the receiver in operating con-

dition but with no signal to the antenna circuit, and with a line voltage of 117.5 volts (235 volts for 220 volt receivers). All voltages, except filament are measured with a 500 volt D.C. voltmeter (1000 ohms per volt) from tube contact to chassis. Filament voltages are measured with a low range A.C. voltmeter.

Tube	Position	Plate	Screen Grid	Cathode	Suppressor Grid	Filament
58	R. F. Amplifier	267	115	3.0	3.0	2.5
56	Oscillator	60		7.0		2.5
58	Modulator	267	115	5.5	5.5	2.5
58	I. F. Amplifier	267	115	4.5	4.5	2.5
2B7	A. V. C. Tube	267	115	4.5	4.5	2.5
56	QAVC Tube	70		0-20.0*		2.5
56	Detector	0		0		2.5
56	Phase Shifter	58		2.5		2.5
56	A. F. Amplifier	170		115		2.5
2-2A5	Output	260	267	17.5		2.5
80	Rectifier	355				4.9

Voltage limits are plus or minus 10% of values given.

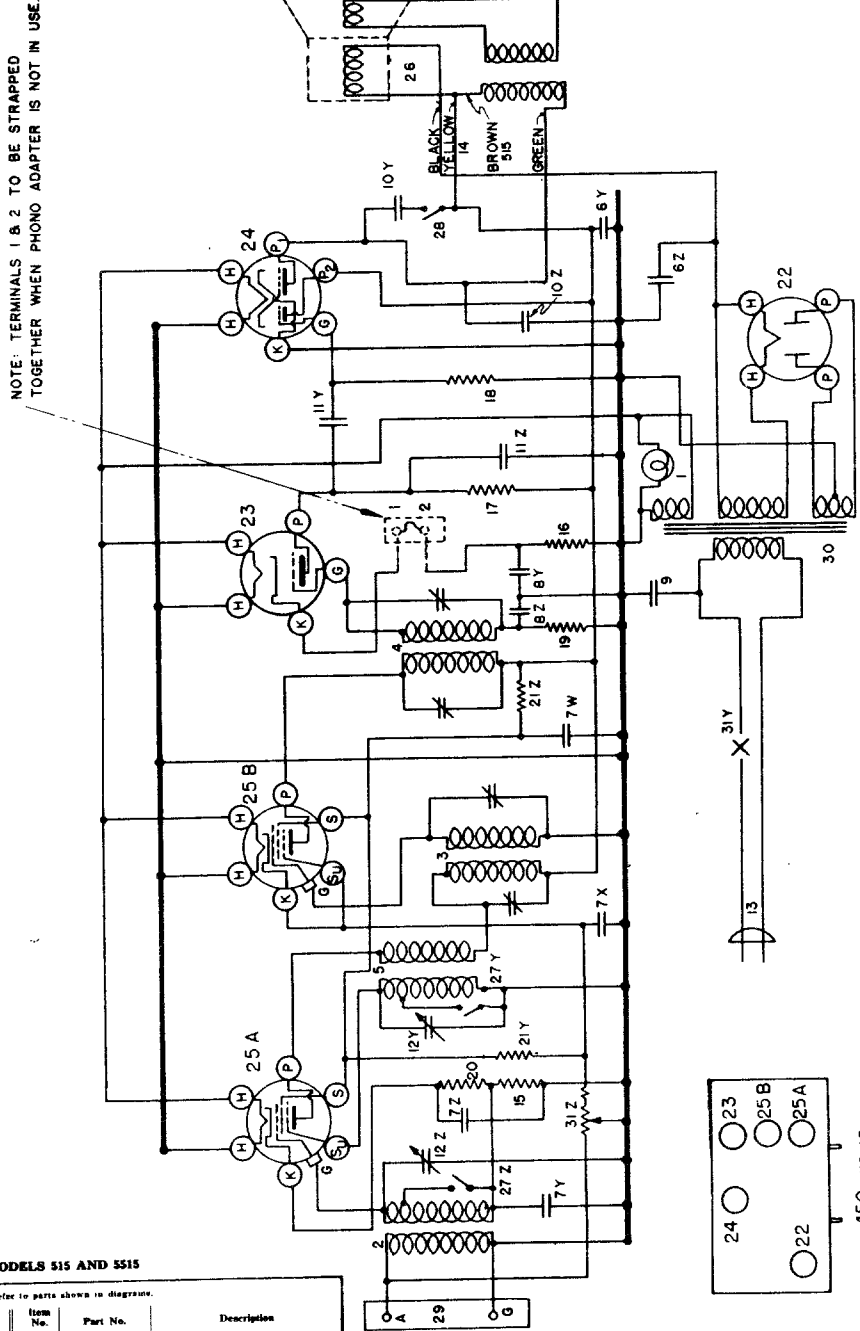
*Voltage depends on position of "Q" control.



MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

Crosley Radio

I.F. 450 KC.

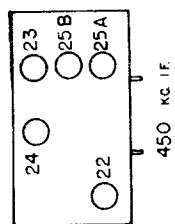


WIRING DIAGRAM OF MODELS 515 AND 5515

PARTS LIST—MODELS 515 AND 5515

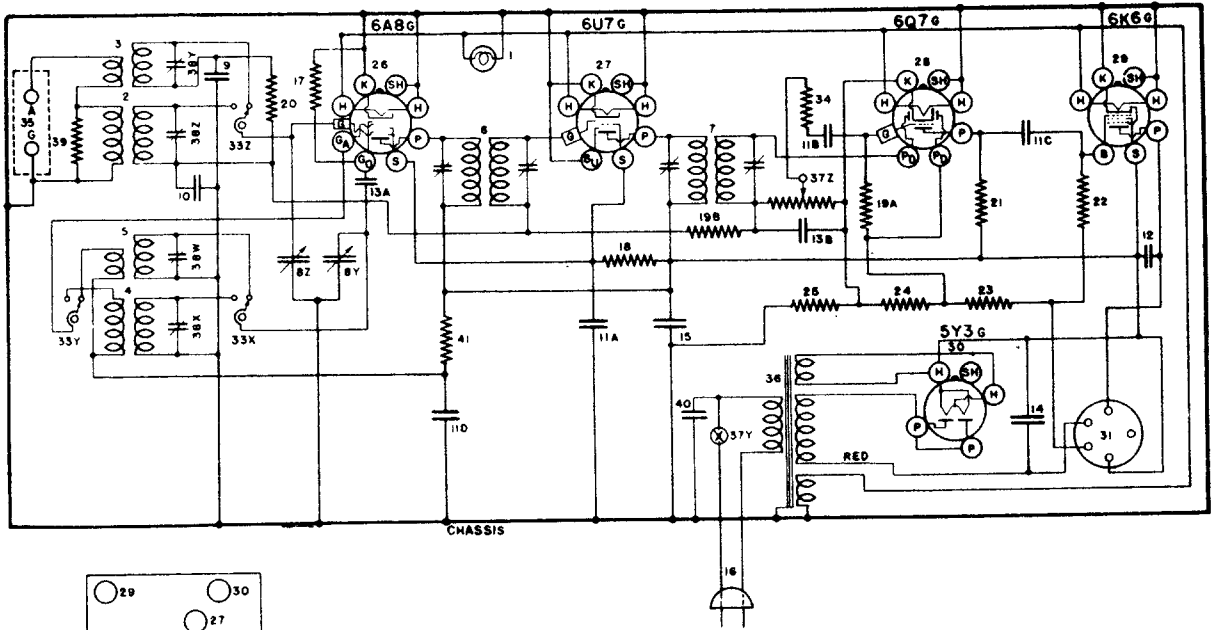
Figures in first column refer to parts shown in diagrams.

Item No.	Part No.	Description	Item No.	Part No.	Description
1	G4—27134	Dial Light Socket Assembly.	20	W—29837	Resistor, 275 Ohms Flex.
2	C49—32000	Coil Ant.	21Z	W—35963	Resistor, 8,500 Ohms.
3	C46—32004	1st. I. F. Trans.	22	G6—28807	Resistor, 25,000 Ohms
4	C49—32004	2nd. I. F. Trans.	23	G80—28807	Socket, 80
5	C47—33002	Dec. Coil.	24	C90—28807	Socket, 6B5
6Y	W—36719	Condenser, 8 Mfd., 450 Volts.	25A	G75—28807	Socket, 6D6
7Z	W—28623	Condenser, 6 Mfd., 450 Volt.	25B	G75—28807	Socket, 6D6
7X	W—28623	Condenser, 0.02 Mfd. 300 Volt.	26	W—35772	Tube Shield, Half.
7W	W—28623	Condenser, 0.02 Mfd. 300 Volt.	27Y	W—35773	Tube Shield Cap.
8Z	W—28622	Condenser, 0.1 Mfd. 200 Volt.	27Z	W—35774	Tube Shield Base
8Y	W—30905	Condenser, 0.01 Mfd. 400 Volt.	29	W—219-BL9	Speaker
10Z	W—35011	Condenser, 0.008 Mfd. 400 Volt.	27Z	W—35753A	Band Change Switch.
10Y	W—25537A	Condenser, 0.03 Mfd. 400 Volt.	28	W—36184A	Tone Control Switch.
11Y	W—25537A	Condenser, 0.01 Mfd. 400 Volt.	29	G1—26719	Ant. Grid Terminal.
12Z	G14—33001	Variable Tuning Condenser Gang.	30	G5—28500	Power Transformer, 60 Cy., 110 V.
13	—36148	Dial Assembly complete.	31Z	G6—28500	Power Transformer 25 Cy., 110 V.
14	B—33006A	Cord—Power Supply	31Y	G7—28500	Volume Control.
15	G3—35696	Speaker Cable (5015 only)	—37943	—37943	On-Off Switch
16	—31094	Resistor, 4,500 Ohms.	—38117	—38117	Electrochem.
17	—21237A	Resistor, 60,000 Ohms.	—37156	—37156	Dial Glass
18	21455	Resistor, 300,000 Ohms	—37156	—37156	Dial Pointer.
19	23785	Resistor, 500,000 Ohms.	—37157	—37157	Pointer Screw.
20	—21454	Resistor, 1 Megohm.	W—31585B	W—31585B	Knob (2) large
			W—36355	W—36355	Knob (2) small.



450 KC. IF.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



MODELS. 517 & 547 455 KC IF

The Crosley Corp.

WIRING DIAGRAM—MODEL 517 AND 547

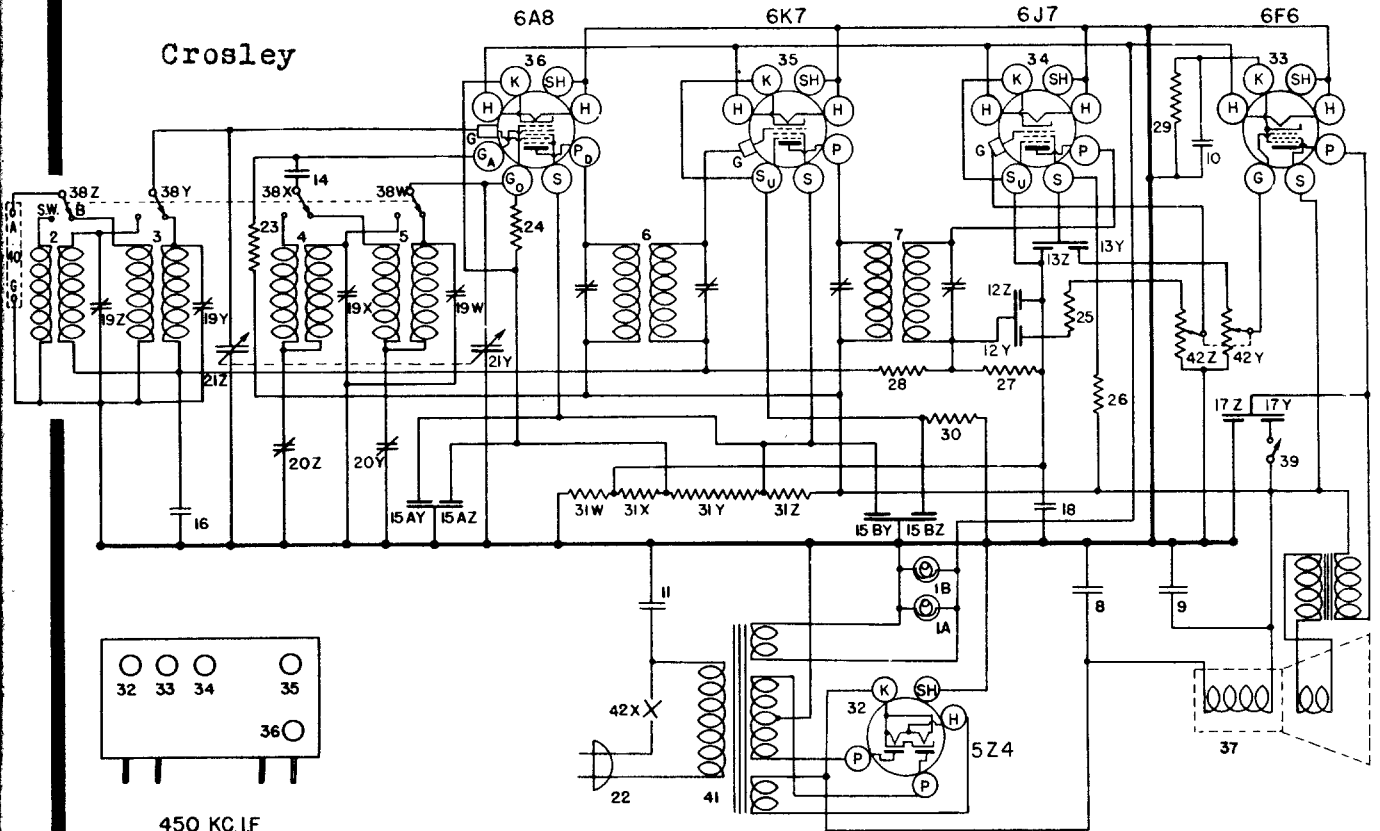
PARTS LIST — MODEL 517 AND 547

Figures in first column refer to parts in Diagrams.

Item No.	Part No.	Description	Item No.	Part No.	Description	
1	W -43567	Bulb—Dial Light	30	G173—36400	Socket Type 5Y3	
	W -43568	Light Bracket	W -40911		Tube Shield	
2	G132—32000	Ant. Coll. B. C.	31	G103—28807	Socket—Speaker	
3	G133—32000	Ant. Coll. H. F.	32	257BP11 "B"	Speaker, Spec. No. 51-A-5 (Cab. 6K & 7KA)	
4	G132—32002	Osc. Coil, B. C.		-42927	Cone for 257BP11 "B" Speaker	
5	G133—32002	Osc. Coil, H. F.		-41473	O. P. Trans. for 257BP11 "B" Spkr.	
6	G136—32004	1st I-F Assembly		-43539	Cardb'd Ring for 257BP11 "B" Spk.	
7	G137—32004	2nd I-F Assembly		257BP18 "B"	Speaker, Spec. No. 51-A-8 (Cab. 7H & 7HA)	
8	G33—33001	2 Sect. Var. Tuning Cond. (547 only)		-42927	Cone for 257BP18 "B" Speaker	
R	G31—33001	2 Sect. Var. Tuning Cond. (517 only)		-43986	O. P. Trans. for 257BP18 "B" Spkr.	
	B -43551	Dial Face (517 only)		-43539	Cardb'd Ring for 462CP11 "M" Spkr.	
	B -43729	Dial Face (Tel. Tun. Dial only)		462CP11 "M"	Spkr., Spec. No. 1-D-971 (Cab. 6PF)	
	W -43694	Disc—Center of Dial		-40405	Cone for 462CP11 "M" Speaker	
	W -43693	Mask Ring (Dial)		-43989	O. P. Trans. for 462CP11 "M" Spkr.	
	W -43778	Dial Support Ring		-43988	Field Coil for 462CP11 "M" Spkr.	
	B -43544	Dial Glass Support		464BP15 "M"	Spkr., Spec. No. 1-D-1017 (Cab. 7M)	
	G1 -43564	Pulley Assembly		-43993	Field Coil for 464BP15 "M" Spkr.	
	W -43548	Drive Shaft		-43995	O. P. Trans. for 464BP15 "M" Spkr.	
	W -43549	Retaining Ring		33	W -43448	Switch Band Selector
	W -43550	Pointer (517 only)		34	W -36761	Resistor 40,000 Ohm 1/4 W.
	W -43542A	Drive Shaft Bracket		35	G1 -26719	Ant. and Ground Terminal Board
	W -43561	Drive Cable Spring		36	-43479	Power Trans. 110 V. 60 Cy.
	W -41582	Drive Cable		-43480	Power Trans. 110 V. 25 Cy.	
9	G12	Condenser .0025 Mf. H.F. Osc. Ser.		-43481	Power Trans. 220 V. 25 Cy.	
10	-36541	Condenser .02 Mf. 160 V.		37Z		
11	W -28621	Condenser .02 Mf. 200 V.		37Y	Volume Control, 1 Megohm	
12	W -34647	Condenser .01 Mf. 400 V.		38Z	Line Switch	
13	G1 -34002	Condenser .0025 Mf. Molded		38Y	Trimmer Cond. B. C. Ant.	
14	W -41081	Condenser 16 Mf. 250 V.		38X	Trimmer Cond. H. F. Ant.	
15	W -43450	Condenser 16 Mf. 200 V.		38W	Trimmer Cond. B. C. Osc.	
16	B -33906A	Power Cord and Plug		39	Trimmer Cond. H. F. Osc.	
17	-21237A	Resistor 60,000 Ohm 1/4 W.		40	Resistor 20,000 Ohm 1/4 W.	
18	-24814	Resistor 7,000 Ohm 1/4 W.		W -30605	Condenser .01 Mf. 400 V.	
19	-36688	Resistor 3 Megohm 1/4 W.		41	Resistor 3,500 Ohm 1/4 W.	
20	-21455	Resistor 300,000 Ohm 1/4 W.		G1 -43724	Tel. Tun. Escutcheon	
21	-35601	Resistor 300,000 Ohm 1/4 W.		W -43769	Pointer—Cabinet (547 only)	
22	-23785	Resistor 500,000 Ohm 1/4 W.		W -43554	Knob (1 required) Small	
23	W -28589	Resistor 350 Ohm 1/4 W. Flex.		W -43625	Knob (2 required) Large	
24	W -33012A	Resistor 40 Ohm 1/4 W. Flex.		W -43553	Rubber Mtg. Foot	
25	W -24537	Resistor 60 Ohm 1/4 W. Flex.		W -43552	Clamp—Speaker Plug	
26	G156—36400	Socket Type 6AB		W -43726	Celluloid Disc (547 only)	
27	G171—36400	Socket Type 6U7				
28	G160—36400	Socket Type 6Q7				
29	G172—36400	Socket Type 6K6				

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

Crosley



The Crosley Corp.

WIRING DIAGRAMS—MODELS 555 AND 555S

Item No.	Part No.	Description	Item No.	Part No.	Description	
1A	G6 —27134	Dial Light Assm.	22	B —37354	Dial Face only	
1B	G6 —27134	Dial Light Assm.	23	B —33906A	A. C. Cord & Plug	
2	G81 —32000	Ant. Coil, S. W. B.	24	—5370A	Resistor, 20,000 Ohm	
3	G81 —32000	Ant. Coil, B. C. B.	25	—21237	Resistor, 60,000 Ohm	
4	G65 —32002	Osc. Coil, S. W. B.	26	—21875	Resistor, 100,000 Ohm	
5	G66 —32002	Osc. Coil, B. C. B.	27	—21455	Resistor, 300,000 Ohm	
6	G71 —32004	1st I. F. Assm.	28	—33344	Resistor, 400,000 Ohm	
7	G72 —32004	2nd I. F. Assm.	29	—37245	Resistor, 1.5 Megohm	
8	W —36055	Condenser, 35. Mfd. 400 Volt	30	W —25291	Resistor, 500 Ohm 1½ W. (Flex)	
9	W —36057	Condenser, 40. Mfd. 300 V.	31Z	W —28106	Resistor, 500 Ohm ½ W. (Flex)	
10	W —36931	Condenser, 12 Mfd. 25 V.	31Y	W —37246A	Resistor, 10,000 Ohm Candohm	
11	W —30805	Condenser, 0.01 Mfd. 400 V.	31X		Resistor, 25,000 Ohm Candohm	
12Z	W —30322A	Condenser, 0.00017 Mfd. 200 V.	31W		Resistor, 185. Ohm Candohm	
13Z		Condenser, 0.001 Mfd. 400 V.	32	G154—36400	Socket, 5Z4	
13Y	W —25537A	Condenser, 0.03 Mfd. 400 V.	33	G153—36400	Socket, 6F6	
14	W —23191A	Condenser, 0.01 Mfd. 400 V.	34	G157—36400	Socket, 6J7	
15AZ	W —28623	Condenser, 0.02 Mfd. 200 V.	35	G151—36400	Socket, 6K7	
15AY		Condenser, 0.02 Mfd. 200 V.	36	G156—36400	Socket, 6A8	
15BZ	W —28623	Condenser, 0.02 Mfd. 200 V.	37	331—CL—9	Speaker, (555)	
15BY		Condenser, 0.02 Mfd. 200 V.		432—CJ—3M	Speaker, (5555) Console	
16	W —27216	Condenser, 0.05 Mfd. 200 V.		G3 —35696	Speaker Cable (5555)	
17Z	W —35011	Condenser, 0.006 Mfd. 400 V.	38W	—37247	Band Change Switch	
17Y		Condenser, 0.03 Mfd. 400 V.	To			
18	W —36541	Condenser, 0.02 Mfd. 160 V.	38Z			
19Z	W —37241A	4 Section Trimmer Cond.	39	W —36184A	Tone Control Switch	
19Y				40	G1 —28719	Ant. & Grd. Terminal
19W				G12 —28500	Power Trans. 60 Cy. 110 V.	
20Z				G13 —28500	Power Trans. 25 Cy. 110 V.	
20Y	G29 —33006	S. W. Osc. Series Padder B. C. Osc. Series Padder	G14 —28500	Power Trans. 25 Cy. 220 V.		
21Z			G17 —33001	Var. Tuning Cond. Gang	42Z	—37395	Volume Control A. F. Grid Volume Control Output Grid On-Off Switch
21Y	—37353C	Dial Assm. Complete				
	—37158	Dial Glass				
	—37156	Dial Pointer				
	—37157	Pointer Screw				

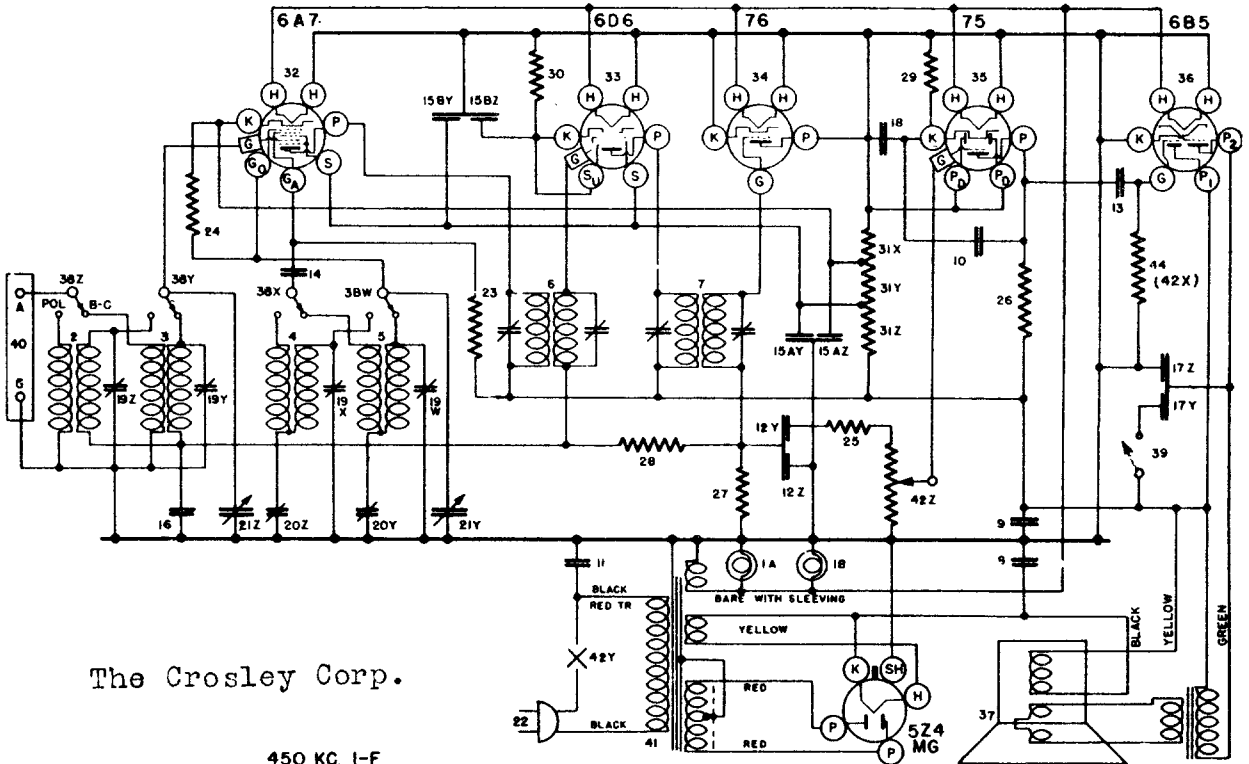
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

PARTS LIST—MODELS 666 and 5666

Figures in first column refer to parts in Diagrams.

Item No.	Part No.	Name	Item No.	Part No.	Name
1	W -37922	6-8 V. Bulb, Dial Light	25	-21875	Resistor, 100,000 Ohm. 1/2 W
2	G3 -37965	Socket Assy., Dial Light	26	-35929-C	Resistor, 150,000 Ohm. 1/2 W
3	G81 -32000	Coil Antenna—2350—7000 Kc.	27	-32344	Resistor, 400,000 Ohm. 1/2 W
4	G 65-32002	Coil—2350—7000 Kc., Osc.	28	-37245-C	Resistor, 1.5 Megohm 1/2 W
5	G 66-32002	Coil—540—1725 Kc., Osc.	29	-36316-C	Resistor, 2,700 Ohm. 1/2 W
6	G118-32004	Coil—Assy., 1st I-F.	30	W -28106	Resistor, 500 Ohm. 1/2 W. Flex.
7	G 72-32004	Coil—Assy., 2nd I-F.	31Z	-37246	Resistor, 1,000 Ohm
8	W -36055	Cond. 25 Mf. 400 V.	31Y	W -37246	Resistor, 2,000 Ohm
9	W -36057	Cond. 40 Mf. 300V.	31X	W -37246	Resistor, 185-185 Ohm } Candohm
10	W -30270	Cond. .001 Mf. 400V.	G47 -28807	Socket—Type 6A7	
11	W -30805	Cond. .01 Mf. 400V.	G75 -28807	Socket—Type 6D6	
12Z	W -30322-A	Cond. .00017 Mf.	G80 -28807	Socket—Type 76	
12Y	W -30322-A	Cond. .006 Mf.	G41 -28807	Socket—Type 75	
13	W -23615	Cond. .05 Mf. 400V.	G90 -28807	Socket—Type 6B5	
14	W -23191-A	Cond. .01 Mf. 400V.	W -27981	Base—Tube Shield	
15 AZ	W -28623	Cond. .02 Mf. 400V.	W -40911	Shield—Tube	
15 AY	W -28623	Cond. .02 Mf. 400V.	244-BL-9	Speaker, "B" Spec. 50A-2	
15 BZ	W -28623	Cond. .02 Mf. 400V.	-42928	Cone Assy. For above Speaker	
15 BY	W -28623	Cond. .02 Mf. 400V.	-41473	Output Trans. For above Speaker	
16	W -27216	Cond. .05 Mf. 200V.	632-CJ-3	Speaker, "M" Spec. 1-D-610	
17 Z	W -31052	Cond. .004 Mf. 400V.	-42879	Cone Assy. For above Speaker	
17 Y	W -31052	Cond. .03 Mf. 400V.	-42880	Field Coil, For above Speaker	
18	W -37732	Cond. 3 Mf. 160V.	-42881	Output Trans. For above Speaker	
19	W -37241	Cond. 4 Section Trimmer	-37247	Switch, Band Sel.	
20	G 31-33006	Cond. Series Trimmers	38	W -36184-A	Switch, Tone Con.
21	G 17-33001	Cond. Var. Tuning	39	G1 -26719	Terminal Board, Ant. & Grid
	W -41736	Drive Unit, 8P, Disc. Assy.	40	-41978	Transformer, 110V.—60 Cy. Power
	W -41897	Dial-Calibrated Glass	42Z	-42879	Volume Control (3 Meg.) 1st A-F
	W -41737	Mtg. Brkt. Dial Glass R.H.	42Y	-42881	Line Switch
	W -41738	Mtg. Brkt. Dial Glass L.H.	42X	-37395	Volume Control (1 Meg.) Output Grid
	W -41739	Drive Unit	43	NONE	
	B -42617	Dial (Calibrated)	44	-35601	Resistor, 300,000 Ohm 1/2 W.
	MG-14-41980	Dial Glass, Mtg. Brkt. R. H.	B -40560	Escutcheon, (666)	Output Grid to Grid.*
	W -40798	Dial Glass, Mtg. Brkt. L. H.	W -42345	Escutcheon, (5666)	
	W -40797-A	Dial Glass, Retaining Brkt.	D -28	Escutcheon Mtg. Screws	
	W -42629	Pointer—Dial	DW -47339	Knob, (2) V. C. & S. S.	
	W -40795	Shaft—Pointer	W -37341	Knob, (2) T. C. & B. S. W.	
	W -40909	Washer (Spring) Shaft	-36297	Volume Control, 3 Meg.*	
	W -41611	Ring, Shaft, Retaining	AG	Cabinet Model 666	
	W -42374-A	Mask (Metal) Dial	MA	Cabinet Model 5666	
	B -33906-A	Cord & Plug—Power			
22	W -5370	Resistor, 20,000 Ohm 1W			
23	W -35928-A	Resistor, 60,000 Ohm 1/2 W			

*May be used in place of Dual Volume Control.

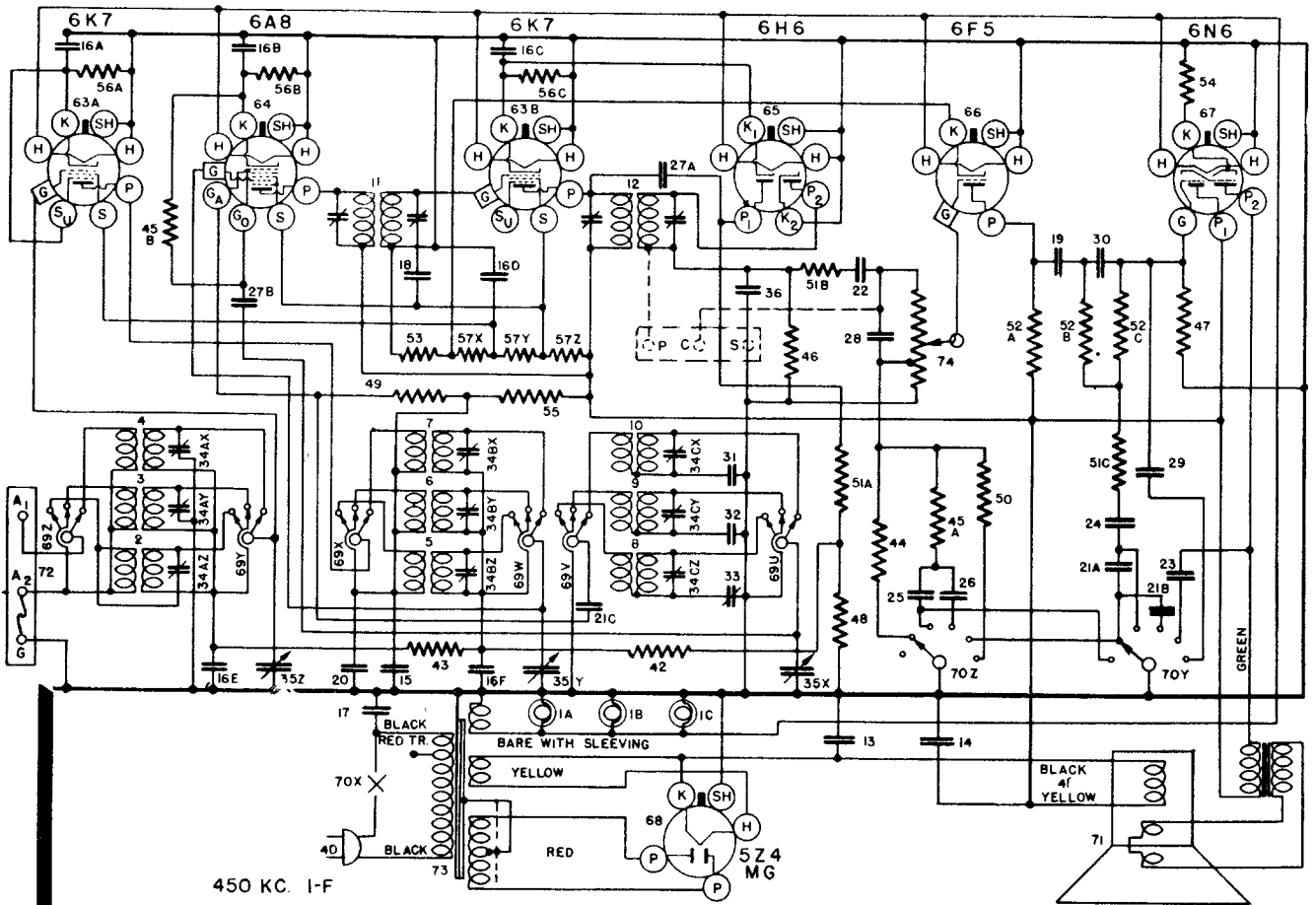


The Crosley Corp.

450 KC. I-F

WIRING DIAGRAM—MODELS 666 AND 5666

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



WIRING DIAGRAM—MODEL 726

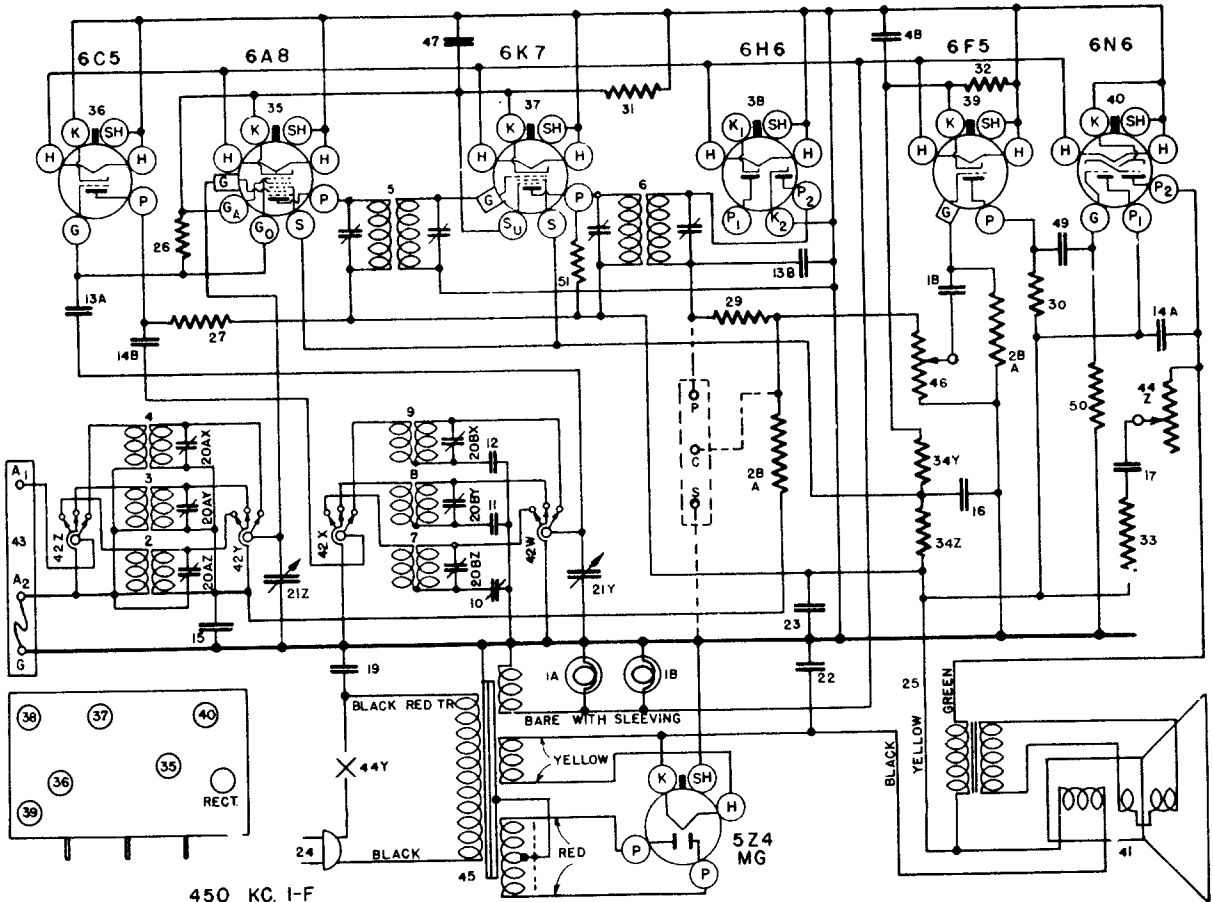
The Crosley Corp.

PARTS LIST—MODEL 726

Figures in first column refer to parts in Diagrams

Item No.	Part No.	Description	Item No.	Part No.	Description
1A	W-37922	Dial Light	44	-36319	Resistor, 75,000 Ohm 1/2 W.
2	G3-37965	Socket Ass. Dial Light	45A	-36328	Resistor, 60,000 Ohm 1/2 W.
3	G110-32006	Coil Ant. 540-1800 Kc.	45B	-36328	Resistor, 60,000 Ohm 1/2 W.
4	G111-32000	Coil Ant. 1800-6000 Kc.	46	-36321	Resistor, 400,000 Ohm 1/2 W.
5	G112-32000	Coil Ant. 6-18 Mc.	47	-36322	Resistor, 750,000 Ohm 1/2 W.
6	G76-32001	Coil R F 540-1800 Kc.	48	-36322	Resistor, 500,000 Ohm 1/2 W.
7	G98-32001	Coil R F 1800-6000 Kc.	49	-37377	Resistor, 20,000 Ohm 1/2 W.
8	G90-32001	Coil R F 6-18 Mc.	50	-36929	Resistor, 150,000 Ohm 1/2 W.
9	G115-32002	Coil Osc. 540-1800 Kc.	51A	-36601	Resistor, 300,000 Ohm 1/2 W.
10	G121-32002	Coil Osc. 1800-6000 Kc.	51B	-35601	Resistor, 300,000 Ohm 1/2 W.
11	G122-32002	Coil Osc. 6-18 Mc.	51C	-35601	Resistor, 300,000 Ohm 1/2 W.
12	G121-32001	1st I.F. Ass.	52A	-35930	Resistor, 200,000 Ohm 1/2 W.
13	W-36055	Condenser, .05Mf. 400V.	52B	-35930	Resistor, 200,000 Ohm 1/2 W.
14	W-36057	Condenser, .01Mf. 300V.	53	W-30127	Resistor, 450 Ohm 1/2 W. Flex.
15	W-41081	Condenser, .02Mf. 150V.	54	W-22012A	Resistor, 40 Ohm 1/2 W. Flex.
16A	W-36541	Condenser, .02Mf. 150V.	55	W-2705	Resistor, 3500 Ohm 1/2 W.
16B	W-36541	Condenser, .02Mf. 150V.	56A	W-28589	Resistor, 350 Ohm 1/2 W. Flex.
17	W-30905	Condenser, .01Mf. 400V.	56B	W-28589	Resistor, 350 Ohm 1/2 W. Flex.
18	W-35936	Condenser, .05Mf. 200V.	56C	W-28589	Resistor, 350 Ohm 1/2 W. Flex.
19	W-32700B	Condenser, .02Mf. 400V.	57	W-37781	Resistor, 16,500 Ohm. Card Ohm.
20	W-32778	Condenser, .01Mf. 400V.	57X		Resistor, 16,500 Ohm.
21A	W-35139	Condenser, .004Mf. 400V.	63A	G151-36400	Socket Type 6K7
21B	W-35139	Condenser, .004Mf. 400V.	63B	G151-36400	Socket Type 6A8
21C	W-35139	Condenser, .004Mf. 400V.	64	G156-36400	Socket Type 6AR
22	W-29623	Condenser, .02Mf. 200V.	65	G155-36400	Socket Type 6BH
23	W-29615	Condenser, .02Mf. 150V.	66	G156-36400	Socket Type 6F5
24	W-30323	Condenser, .01Mf. 200V.	67	G155-36400	Socket Type 6N6
25	W-29619	Condenser, .005Mf. 300V.	68	G154-36400	Socket Type 5Z4
26	W-25435	Condenser, .003Mf. 400V.	69	C-4010A	Band Selector Switch
27A	G2-34102	Condenser, .0001Mf. (Mica)	70Z		Fidelity Switch
27B	G2-34102	Condenser, .0001Mf. (Mica)	70Y		Fidelity Switch
28	G8-34102	Condenser, .0001Mf. (Mica)	71	-42387C	Line Switch
29	G3-34102	Condenser, .00025Mf. (Mica)		-445CJ3	Speaker "M" Spec. 1D640
30	G6-34102	Condenser, .00025Mf. (Mica)		-42863	Cone Assy. For Above
31	G20-34100	Condenser, .4910Mmf. (Mica)		40406	Field Coil
32	G7-34000	Condenser, .1450Mmf. (Mica)		-42885	Auto I Trans. Speaker
33	W-40789	Condenser, B. C. One Series Trim	72	G27-26719	Ant. & Cnd. Terminal Assy.
34	W-3561	Condenser, 3 Section Trimmer	73	-42260	Power Trans 60 Cy. 110 V.
35	G52-34802	Condenser, 3 Gang Var Tuning		42261	Power Trans 25 Cy. 110 V.
	MC23-42255	Dial Drive Assy.		42261	Volume Control 2 1/2 Meg
	C-42491	Dial Glass (Calibrated)			Misc. Parts
	-42500	Drive Unit		C-42045	Escutcheon
	-42507	Dial Mark (Cardboard)		D-20143	Escutcheon Rubber
	W-42180	Dial Hand		D-30	Screws - Escutcheon Mtg.
	W-11114	Dial Hand Time Log		C-42041	Lens - Escutcheon
	W-40486	Printer Mic. Suffix		C-40250P	Emblem
36	G1-34102	Condenser, .0025 Mf. (Mica)		W-32620	Nut - Emblem Mtg.
37	W-30270	Condenser, .01 Mf. 400V.		W-26137	Rubber Mtg. Foot
40	W-33906A	Power Cord & Plug		W-37339	Knob 1/2 Req.
41	G3-35606	Cable, Speaker		W-40192B	Knob, B. S. Sq. (1 Req.)
42	W-37345	Resistor, 4 Ohm 1/2 W.		W-42949	Knob, S. S. (1 Req.)
43	35600	Resistor, 100,000 Ohm 1/2 W.		W-6N6C	Cabinet

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



WIRING DIAGRAM—MODEL 716

Item No.	Part No.	Name	Item No.	Part No.	Name
-AB	W -37922	Bulb 6-8V., Dial Light	28A	-36688	Resistor, 3 Megohm 1/4 W. (Car.)
	G3 -37965	Socket Assv., Dial Light	28B	-36688	Resistor, 3 Megohm 1/4 W. (Car.)
2	G120 -32000	Coil, Ant. (540-1800 Kc.)	29	-21455	Resistor, 300,000 Ohm 1/4 W. (Car.)
3	G119 -32000	Coil, Ant. (1800-6000 Kc.)	30	-35930	Resistor, 200,000 Ohm 1/4 W. (Car.)
4	G121 -32000	Coil, Ant. (5800-18000 Kc.)	31	W -21964	Resistor, 165 Ohm 3/4 W. (Flex.)
5	G122 -32004	Coil Assv. 1st I-F (450Kc.)	32	W -35457	Resistor, 210 Ohm 3/4 W. (Flex.)
6	G123 -32004	Coil Assv. 2nd I-F (450Kc.)	33	W -27503	Resistor, 1400 Ohm 3/4 W. (Flex.)
7	G112 -32002	Coil, Osc. (540-1800 Kc.)	34Z	W -32301	Resistor, 10,000 Ohm (Candohm)
8	G111 -32002	Coil, Csc. (1800-6000 Kc.)	34Y	-32301	Resistor, 15,000 Ohm (Candohm)
9	G123 -32002	Coil Cs. (5800-18000 Kc.)	35	G156 -36400	Socket Type 6A8
10	-40769	Cond., .0001Mf. (Molded)	36	G152 -36400	Socket Type 6C5
11	G7 -34007	Cond. 1750 Mmf.	37	G151 -36400	Socket Type 6K7
12	G 8 -34007	Cond. 4350 Mmf.	38	G155 -36400	Socket Type 6H6
13A	G 2 -34002	Cond., .0001Mf. (Molded)	39	G158 -36400	Socket Type 6F5
13B	G 2 -34002	Cond., .0001 Mf. (Molded)	40	G165 -36400	Socket Type 6N6
14A	W -35139	Cond., .004 Mf. 400V. (Tub.)	41	332-BJ3	Speaker "M" Sere. 1-D-390
14B	W -35139	Cond., .004Mf. 400V. (Tub.)		-41638	Core Assv. for "M" 332BJ3
15	W -35936	Cond., .05Mf. 200V. (Tub.)		-40275	Field Coil for "M" 332FJ3
16	W -24049-B	Cond., .1Mf. 200V. (Tub.)		-41639	Output Trans. for "M" 332BJ3
17	W -37873	Cond., .1Mf. 400V. (Tub.)	42	-40770-A	Switch, Band Selector
18	W -30488	Cond., .02Mf. 400 V. (Tub.)	43	G27 -26719	Terminal Board, Antenna & Grd.
19	W -30805	Cond., .01 Mf. 400V. (Tub.)	44Z	-37908	Tone Control, 100,000 Ohm
20	W -35951	Cond.-3 Section Trimmer	44Y	-37908	Switch, Line
21	G21 -33001	Cond.-2 Section Tuning	45	-41978	Transformer, 110V. 60 Cy.
	B -42142-A	Dial-Calibrated Glass		-42149	Transformer, 110V. 25 Cy.
	-42346	Drive Unit		-42150	Transformer, 220V. 25 Cy.
	B -42338	Mask-Metal	46	-37967	Volume Control 1Megohm
	-41145	Pointer-Dial	47	W -29910-A	Cond., .25Mf. 200V. (Tub.)
	W -40486	Screw, Pointe. Mtg.	48	W -28621	Cond., .02Mf. 200V. (Tub.)
	MG27 -42151	Dial Drive Complete	49	W -35758	Cond., .008, 400V. (Tub.)
	-41582	Cable, Drive	50	-23785	Resistor, 500,000 Ohm 1/4 W. (Car.)
22	W -36055	Cond., .35Mf. 400V. (Elect.)		W -42345	Escutcheon
23	W -36057	Cond., .40Mf. 300V. (Elect.)		D -28	Screw Escutcheon Mtg.
24	B -33906-A	Cord and Plug, Power			
25	G4 -35696	Speaker Cable			
26	-40757	Resistor, 50,000 Ohm 1/4 W. (Car.)			
27	W -37987	Resistor, 15,000 Ohm 1W (WireWound)			

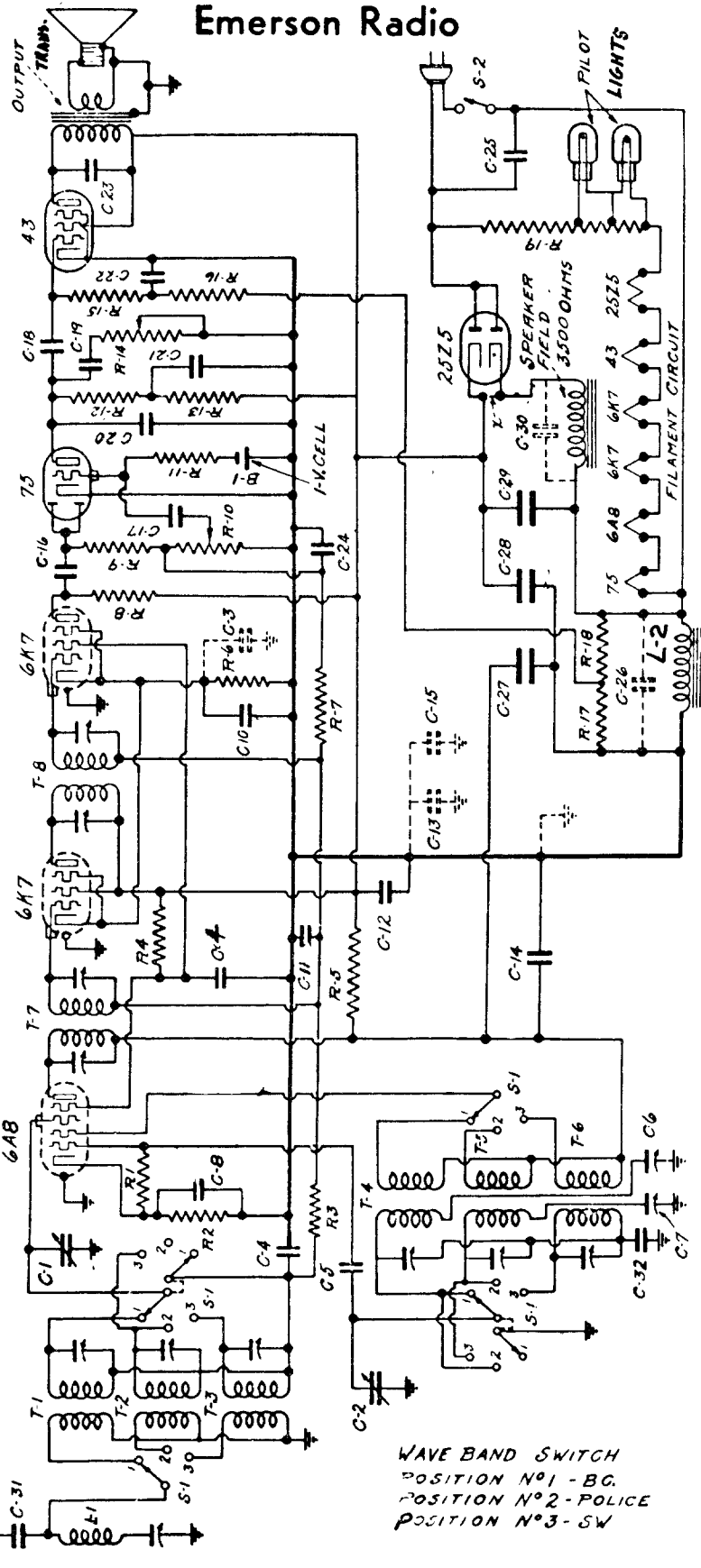
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

MODELS 107 and 111

Chassis Model U6A

Emerson Radio

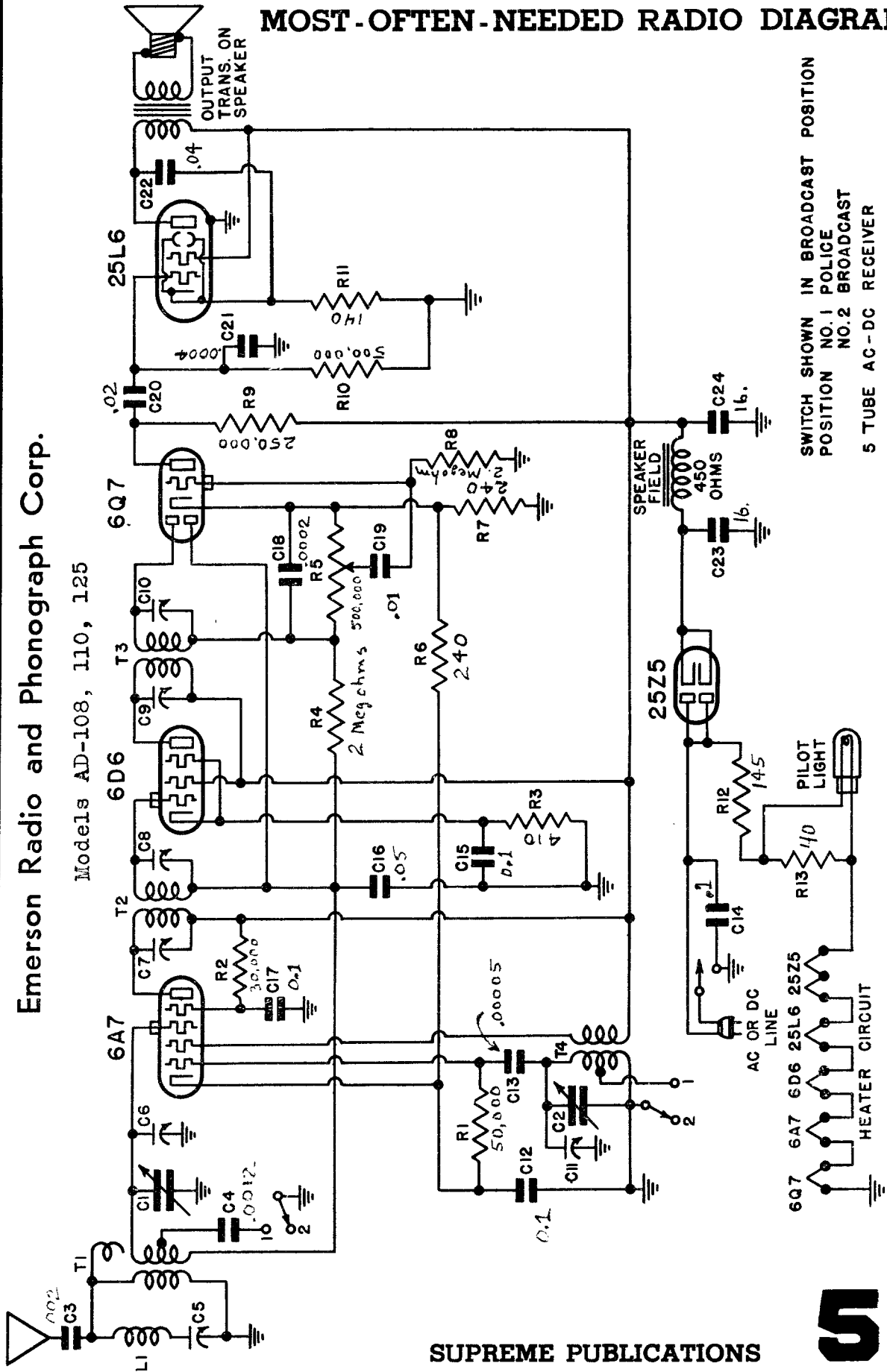
- | | |
|---------------|--|
| L1 | 456 kc adjustable wave-trap |
| L2 | Filter choke—500 ohms |
| T1, T3 | Three-band antenna coil assembly |
| T4, T5, T6 | Three-band oscillator coil assembly |
| T7 | 456 kc first i-f transformer |
| T8 | 456 kc second i-f transformer |
| R1, R8 | 50,000 ohm, 1/4 watt carbon resistor |
| R2 | 500 ohm, 1/2 watt wire-wound resistor |
| R3, R7, R11 | 1 megohm, 1/4 watt carbon resistor |
| R4 | 30,000 ohm, 1/4 watt carbon resistor |
| R5, R17 | 10,000 ohm, 1/4 watt carbon resistor |
| R6 | 850 ohm, 1/2 watt wire-wound resistor |
| R9, R13 | 100,000 ohm, 1/4 watt carbon resistor |
| R10, S2 | Volume control with line switch—0.5 megohms |
| R12 | 200,000 ohm, 1/4 watt carbon resistor |
| R14 | Tone control—0.25 megohms |
| R15, R16 | 500,000 ohm, 1/4 watt carbon resistor |
| R18 | 5,000 ohm, 1/4 watt carbon resistor |
| R19 | Wire-wound ballast resistor—130 ohms |
| C1, C2 | Two-gang variable condenser |
| C3, C4, C21, | 0.1 mf, 200 volt tubular condenser |
| C22, C25 | 0.1 mf, 200 v. electrolytic condenser block |
| C5 | 0.0001 mf mica condenser |
| C6, C7 | Dual adjustable padding condenser |
| C8, C9, C10, | Seven-section condenser block |
| C11, C12, | C8—0.1 mf, 200 v. |
| C13, C14 | C9—0.1 mf, 200 v. |
| C15 | C10—0.2 mf, 200 v. |
| C16, C20, C24 | C11—0.05 mf, 200 v. |
| C17, C18 | 0.02 mf, 200 v. tubular condenser |
| C19 | 0.00025 mf mica condenser |
| C23, C31 | 0.01 mf, 200 v. tubular condenser |
| C26 | 0.006 mf, 200 v. tubular condenser |
| C27, C28, C29 | 0.001 mf mica condenser |
| C30 | 0.25 mf, 200 v. tubular condenser |
| C32 | 4, 8 and 16 mf electrolytic filter condenser block |
| C33 | C27—4 mf, 150 v. |
| | C28—8 mf, 150 v. |
| | C29—16 mf, 150 v. |
| | Tubular 4 mf, 150 v. electrolytic condenser |
| | 0.005 mf mica condenser |



Emerson Radio and Phonograph Corp.

Models AD-108, 110, 125

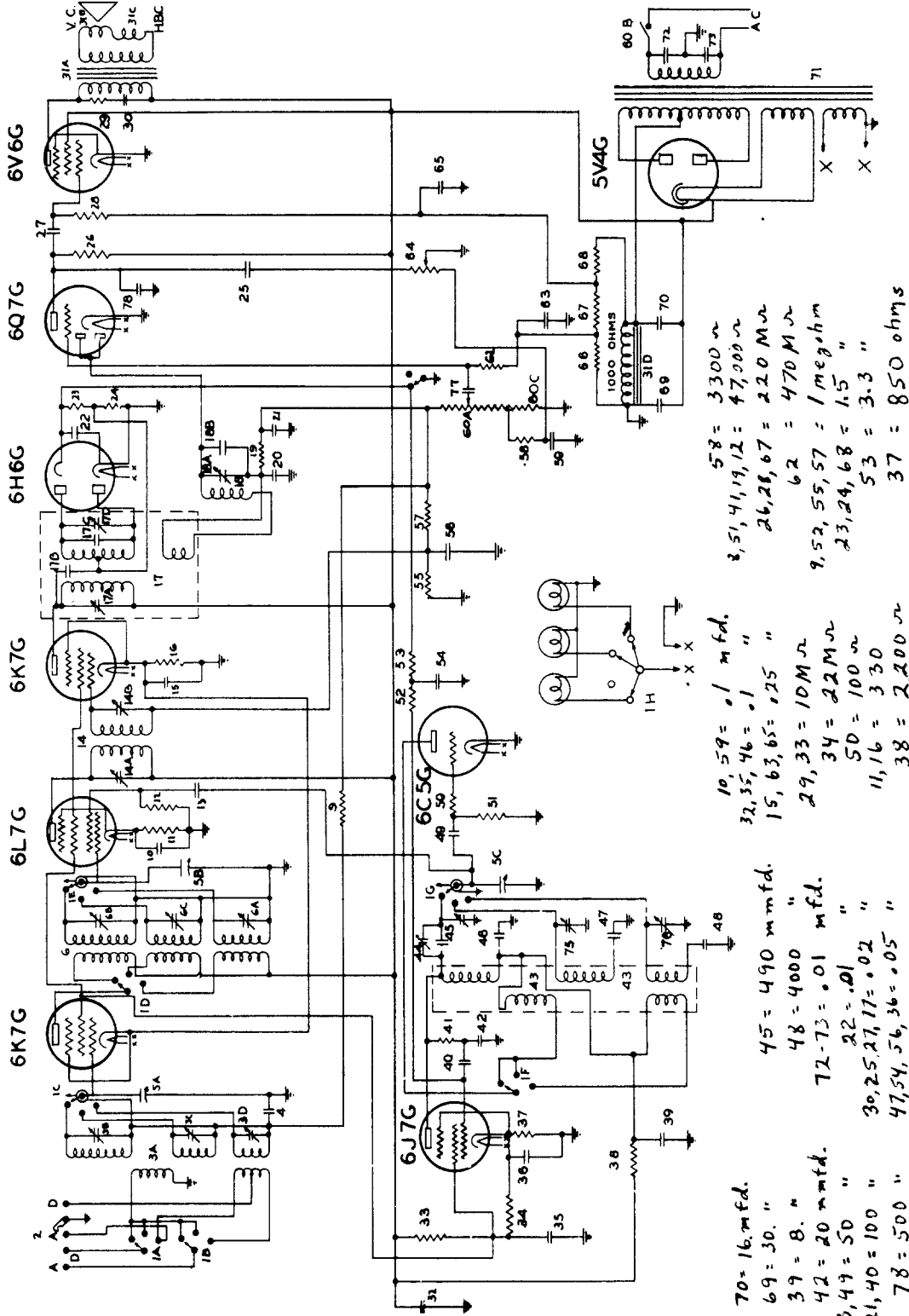
MOST-OFTEN-NEEDED RADIO DIAGRAMS



SWITCH SHOWN IN BROADCAST POSITION
 POSITION NO.1 POLICE
 NO.2 BROADCAST
 5 TUBE AC-DC RECEIVER

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

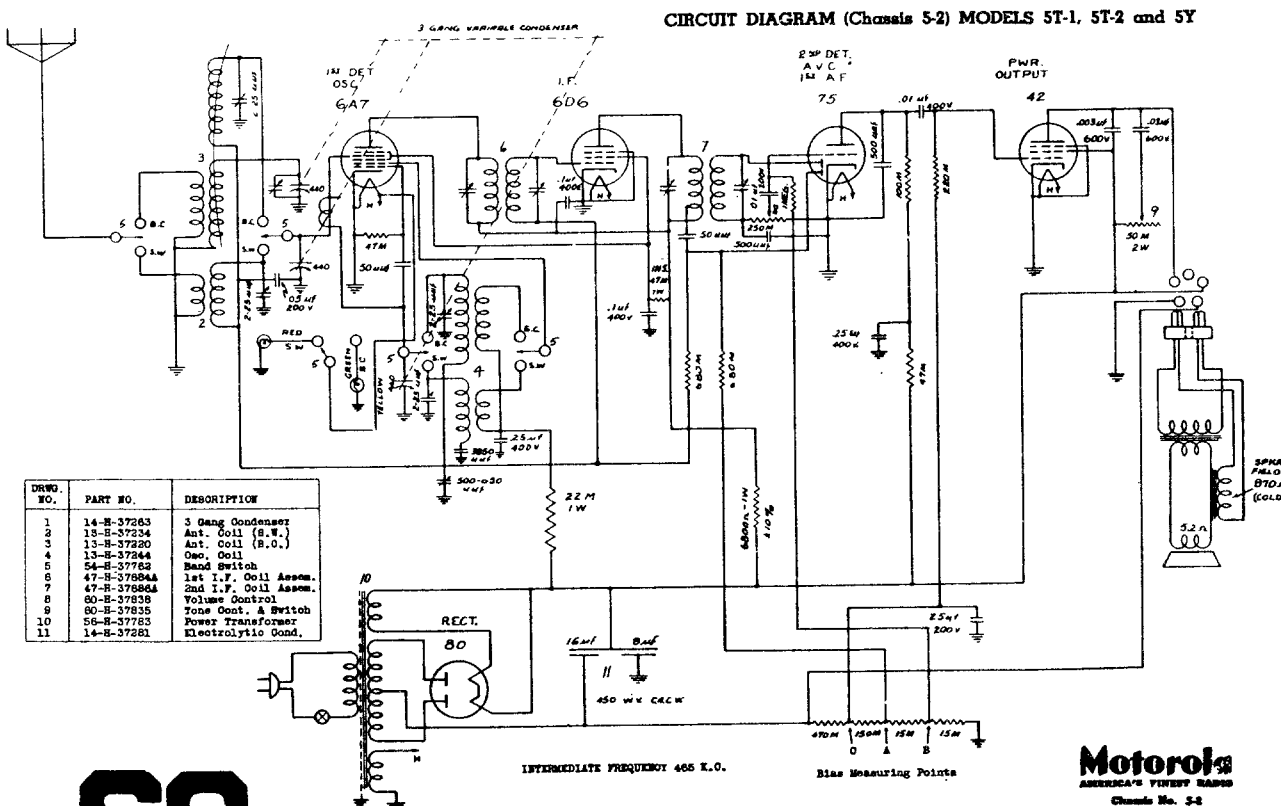
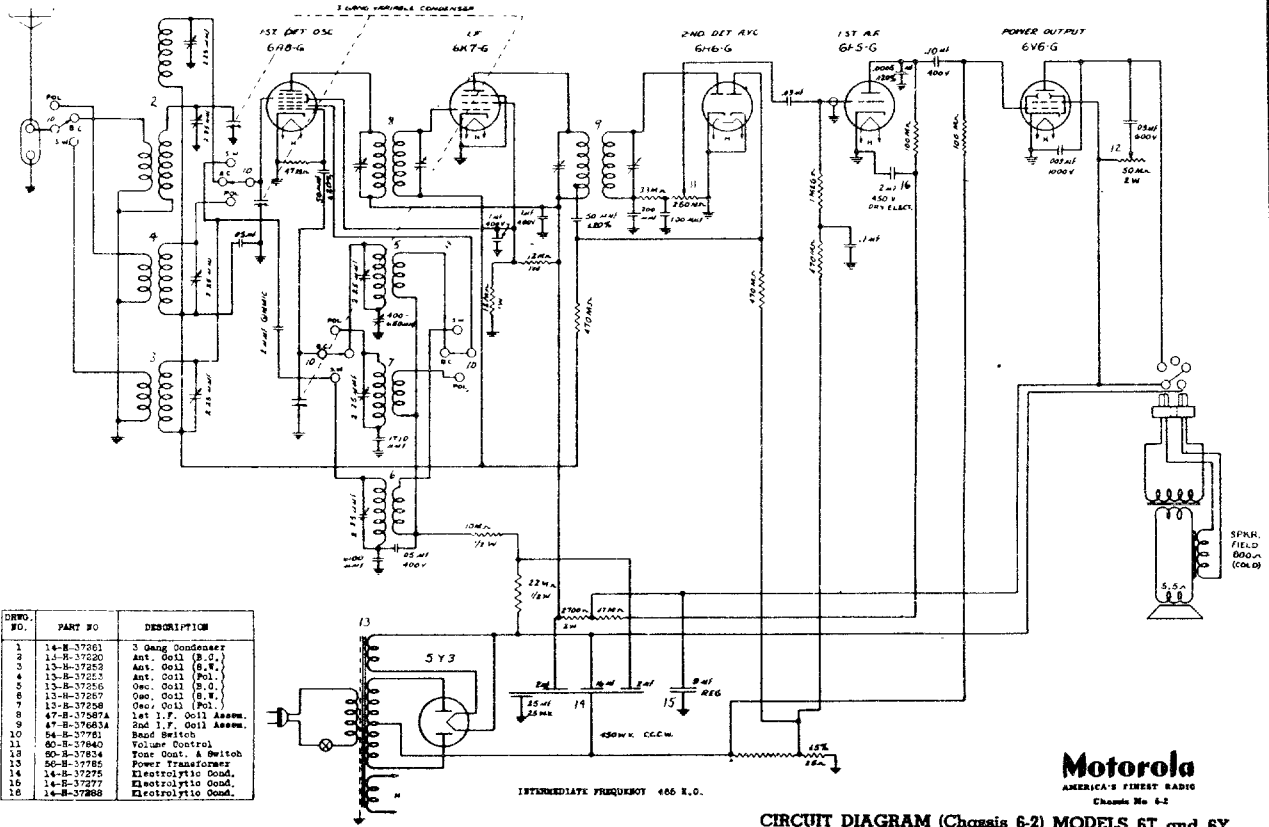
Fairbanks-Morse Radio, Chassis Model 9A



70 = 16 mfd.
 69 = 30. "
 39 = 8. "
 42 = 20 mfd.
 13, 49 = 50 "
 20, 21, 40 = 100 "
 78 = 500 "
 45 = 490 mfd.
 48 = 4000 "
 72-73 = .01 mfd.
 22 = .01 "
 30, 25, 27, 17 = .02 "
 47, 54, 56, 36 = .05 "
 10, 59 = .1 mfd.
 32, 35, 46 = .1 "
 15, 63, 65 = .25 "
 29, 33 = 10MΩ
 34 = 22MΩ
 50 = 100 Ω
 11, 16 = 330 Ω
 58 = 3300 Ω
 3, 51, 41, 19, 12 = 47,000 Ω
 26, 28, 67 = 220MΩ
 62 = 470MΩ
 9, 52, 55, 57 = 1 megohm
 23, 24, 68 = 1.5 "
 53 = 3.3 "
 37 = 850 ohms

I.F. 456 KC.

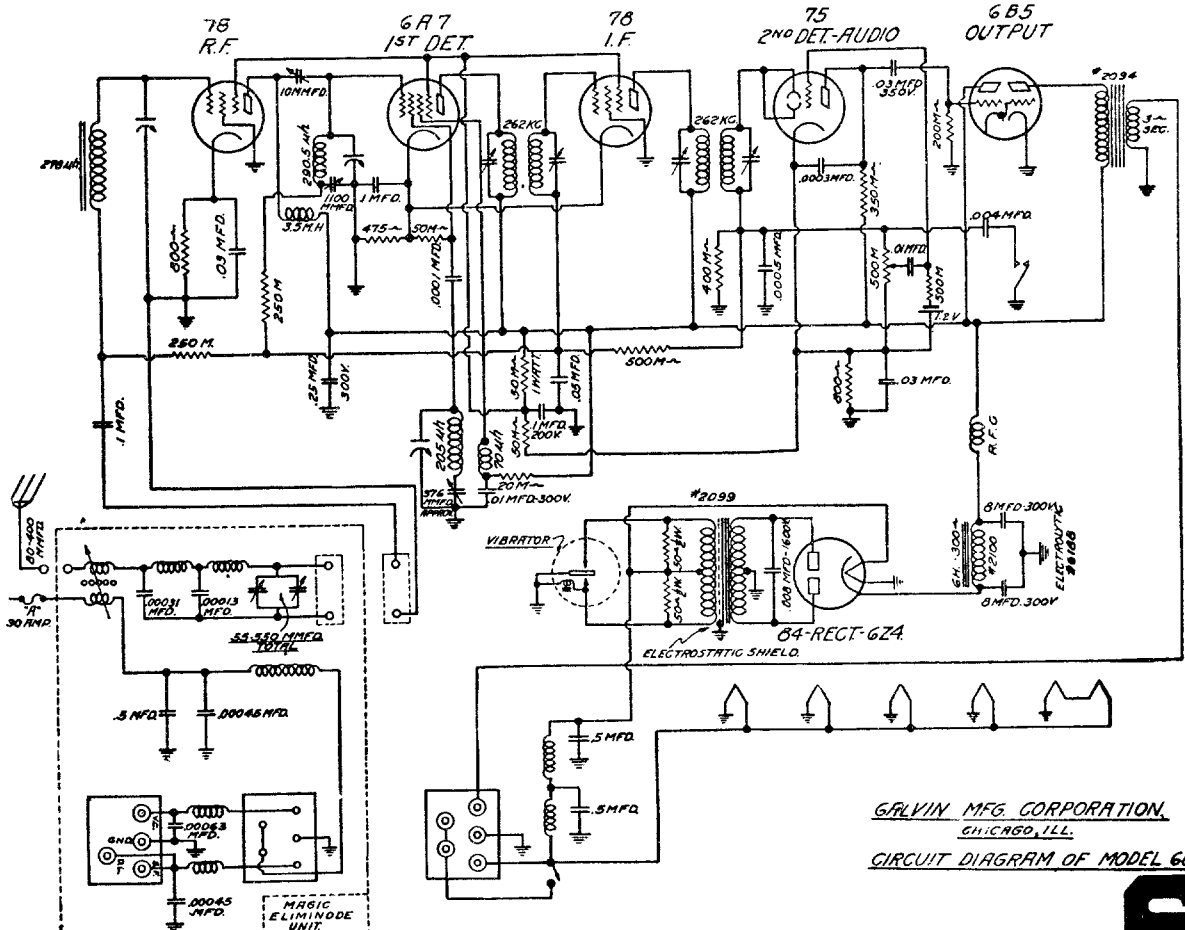
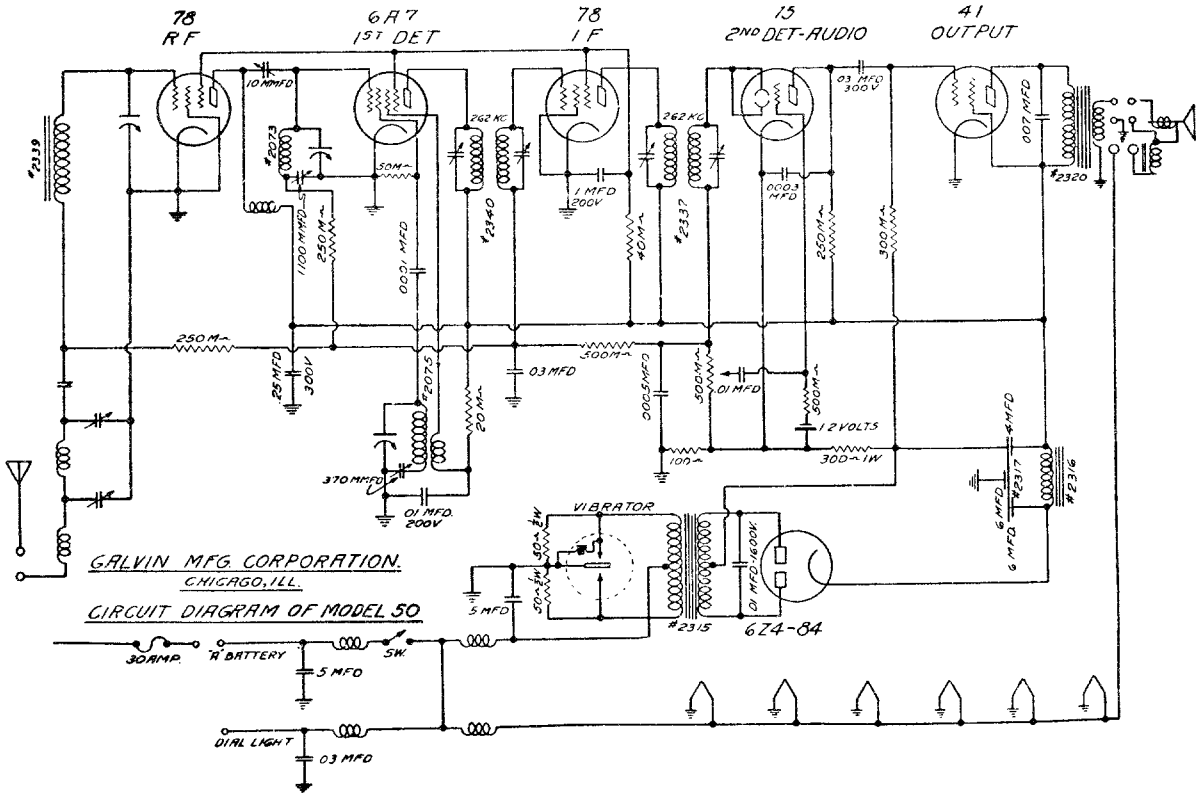
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



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COMPILED BY M. N. BEITMAN, SUPREME PUBLICATIONS

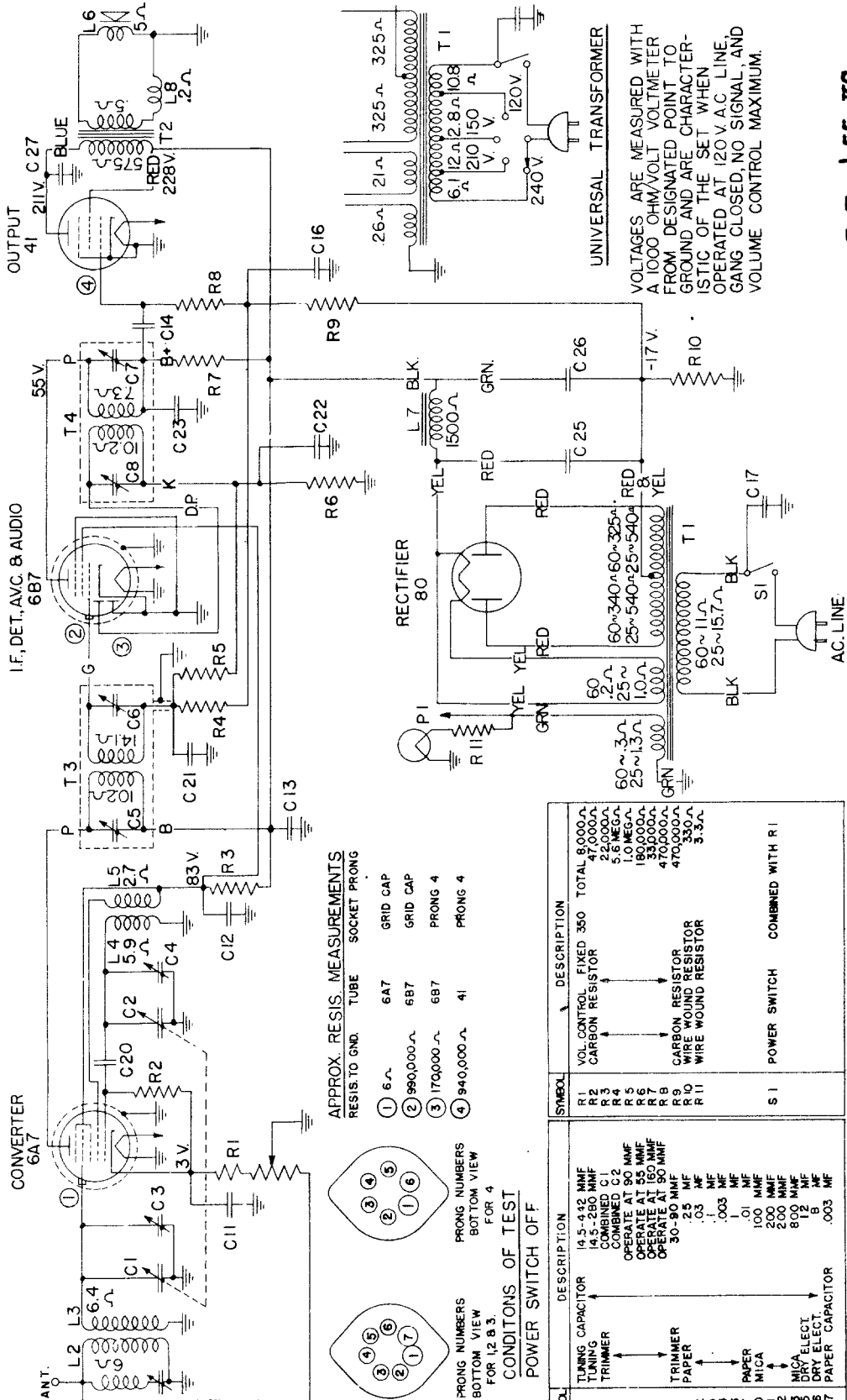
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

General Electric Co.

Radio Receiver, Model F-40

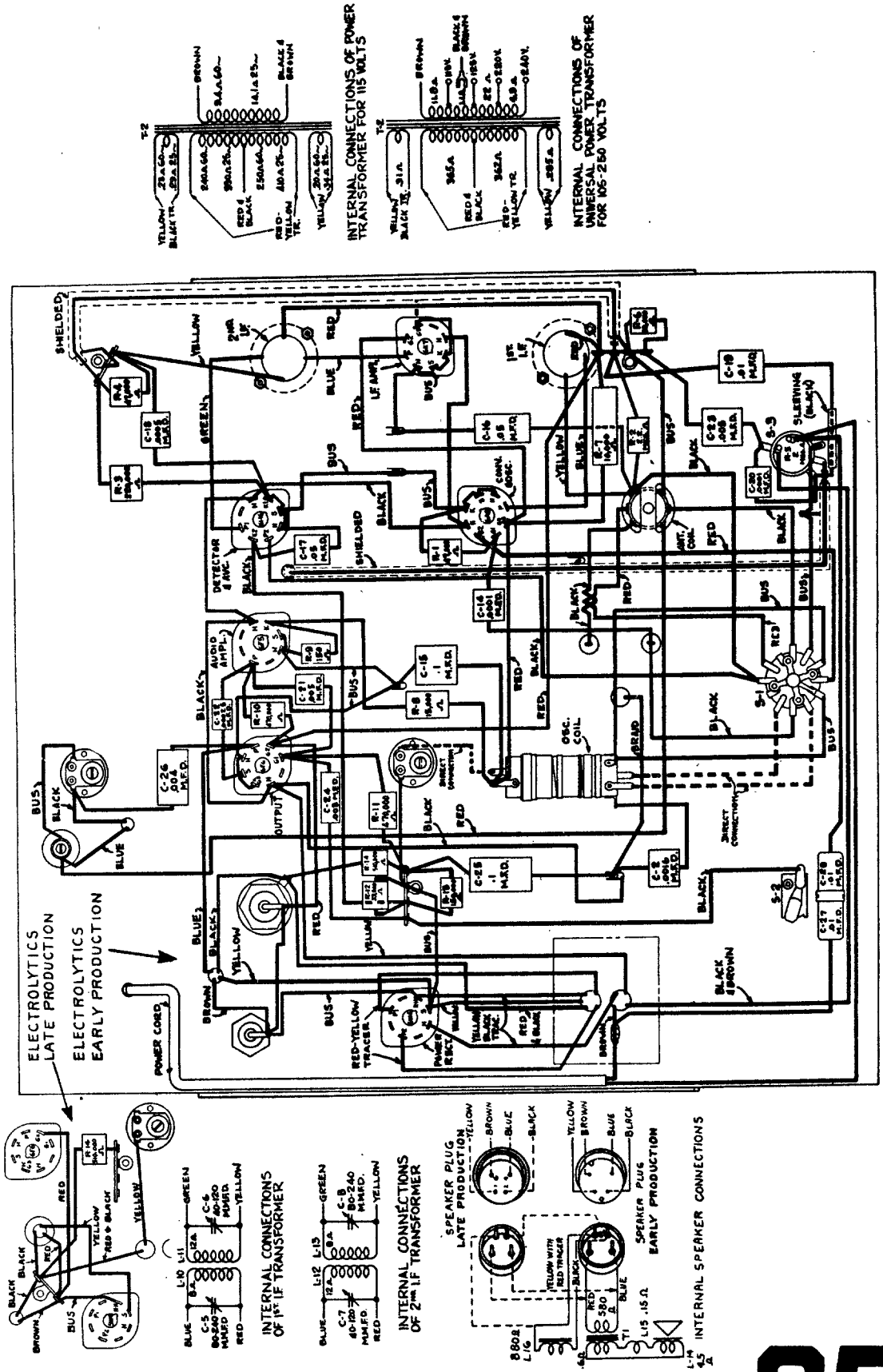


I.F. 455 KC.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

Radio Receivers, Models E-61, E-62, and E-68

General Electric



MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

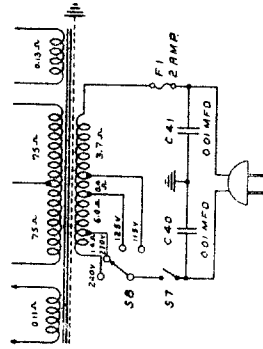
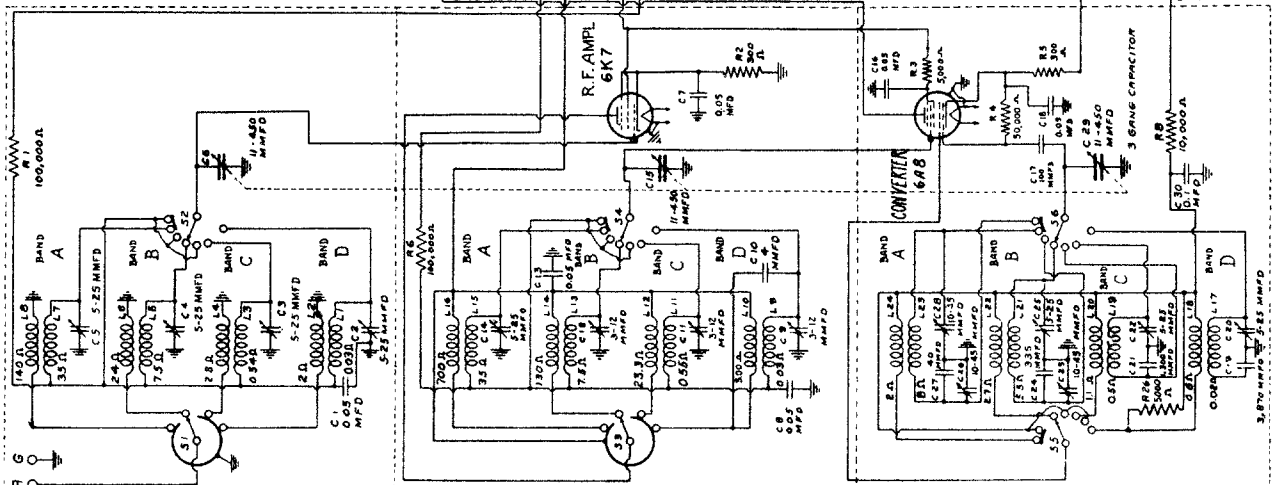
Tubes

- R. F. Amplifier.....6K7 Triple-grid Super-control Amplifier Converter and Oscillator.....6A8 Pentagrid Converter
- I. F. Amplifier.....6K7 Triple-grid Super-control Amplifier
- Detector and AVC.....6H6 I win Diode
- Audio Amplifier.....6C5 Detector Amplifier Triode
- Output.....Two 6F6 Power Amplifier Pentodes (Push-pull)
- Power Rectifier.....5Z4 Full-wave Rectifier
- Dial Lamps.....MAZDA No. 46

Tuning Frequency Range

- Band "A".....140-410 kc
- Band "B".....540-1750 kc
- Band "C".....1.75-6.0 mc (1750-6000 kc)
- Band "D".....6.0-19.5 mc (6000-19,500 kc)

I. F. 465 KC.



115-240 Volts
Universal Transformer

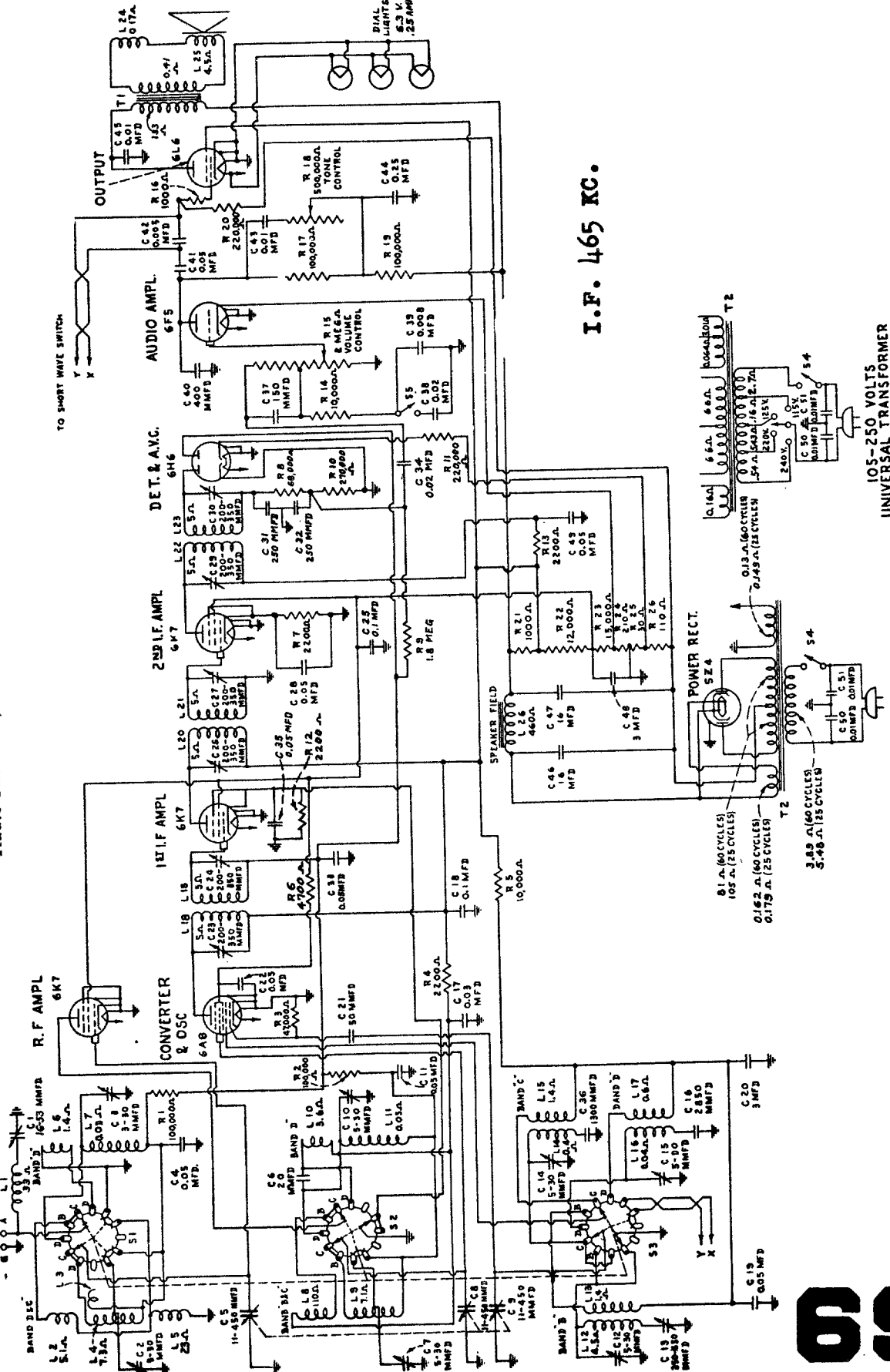
MODELS A-82 AND A-87

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

General Electric Co.

Radio Receivers, Models E-81 and E-86

I.F. 465 KC.

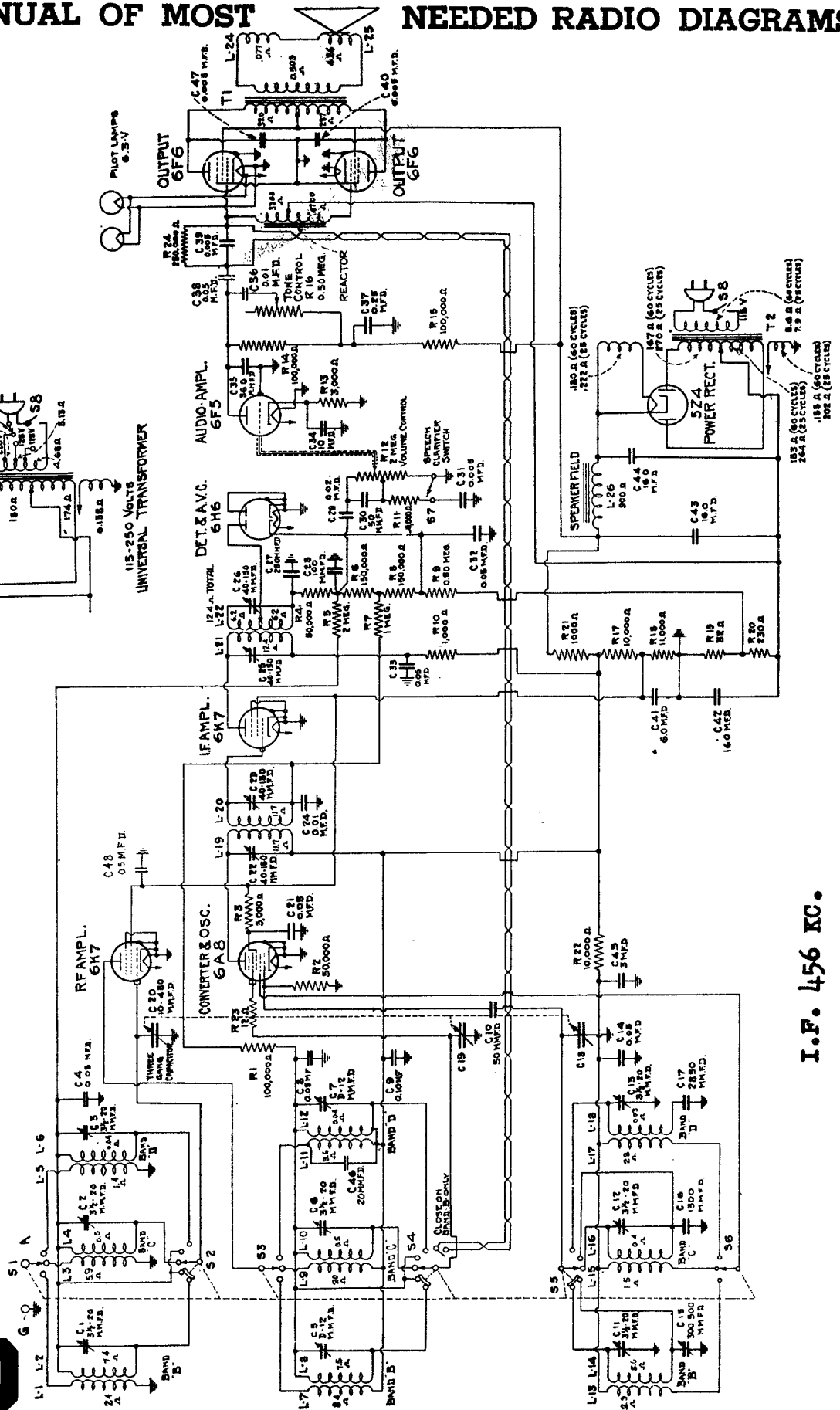


105-250 VOLTS
UNIVERSAL TRANSFORMER

MANUAL OF MOST NEEDED RADIO DIAGRAMS

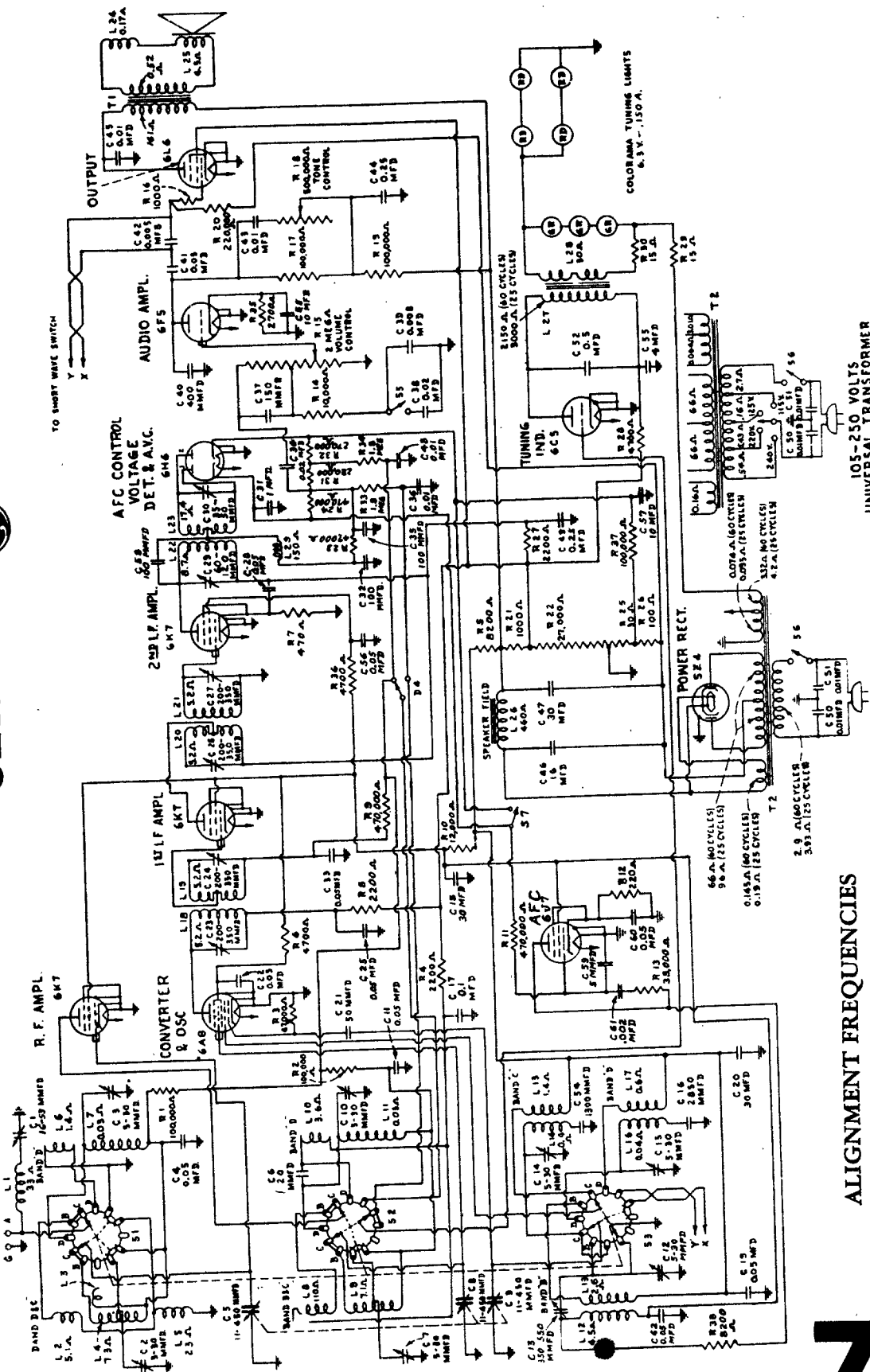
General Electric Co. Models: A-83, A-85

70



I.F. 456 KC.

GENERAL ELECTRIC



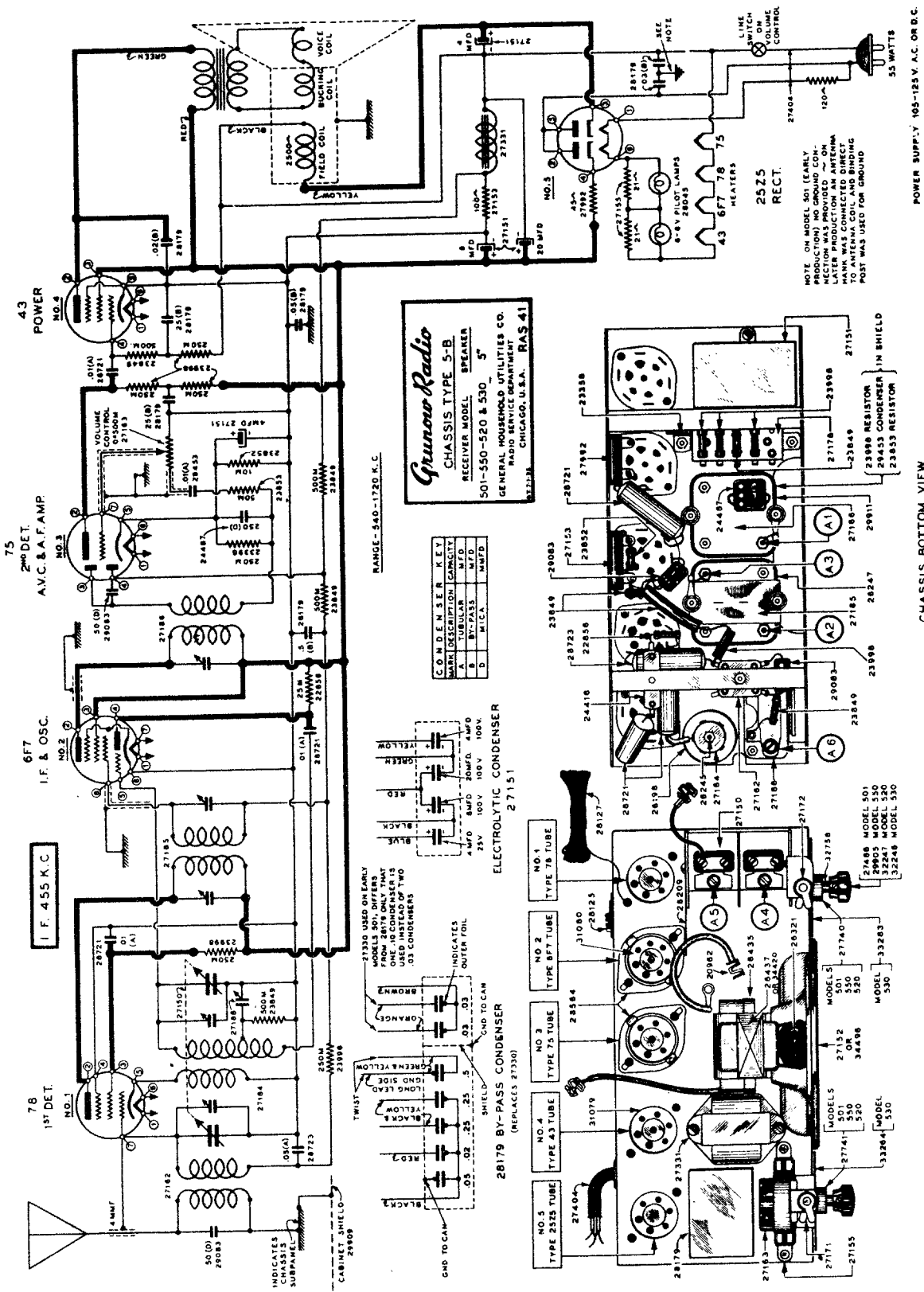
105-250 VOLTS
UNIVERSAL TRANSFORMER

ALIGNMENT FREQUENCIES

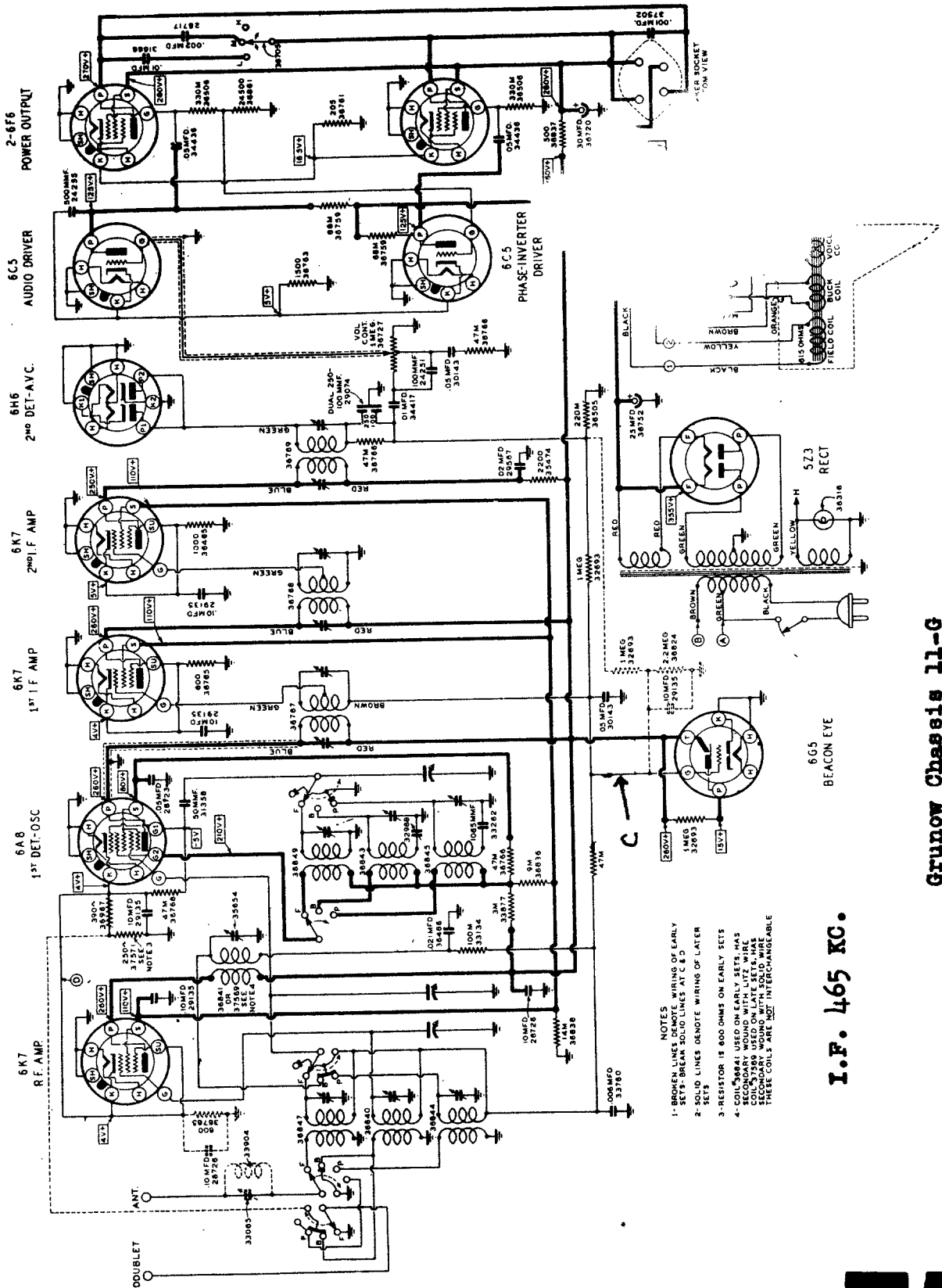
- I.F. Band "B" 465 kc.
- Band "C" 5220 kc.
- Band "D" 18,000 kc.
- Wave Trap 465 kc.

Radio Receivers, Models E-101, E-105 and E-106

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

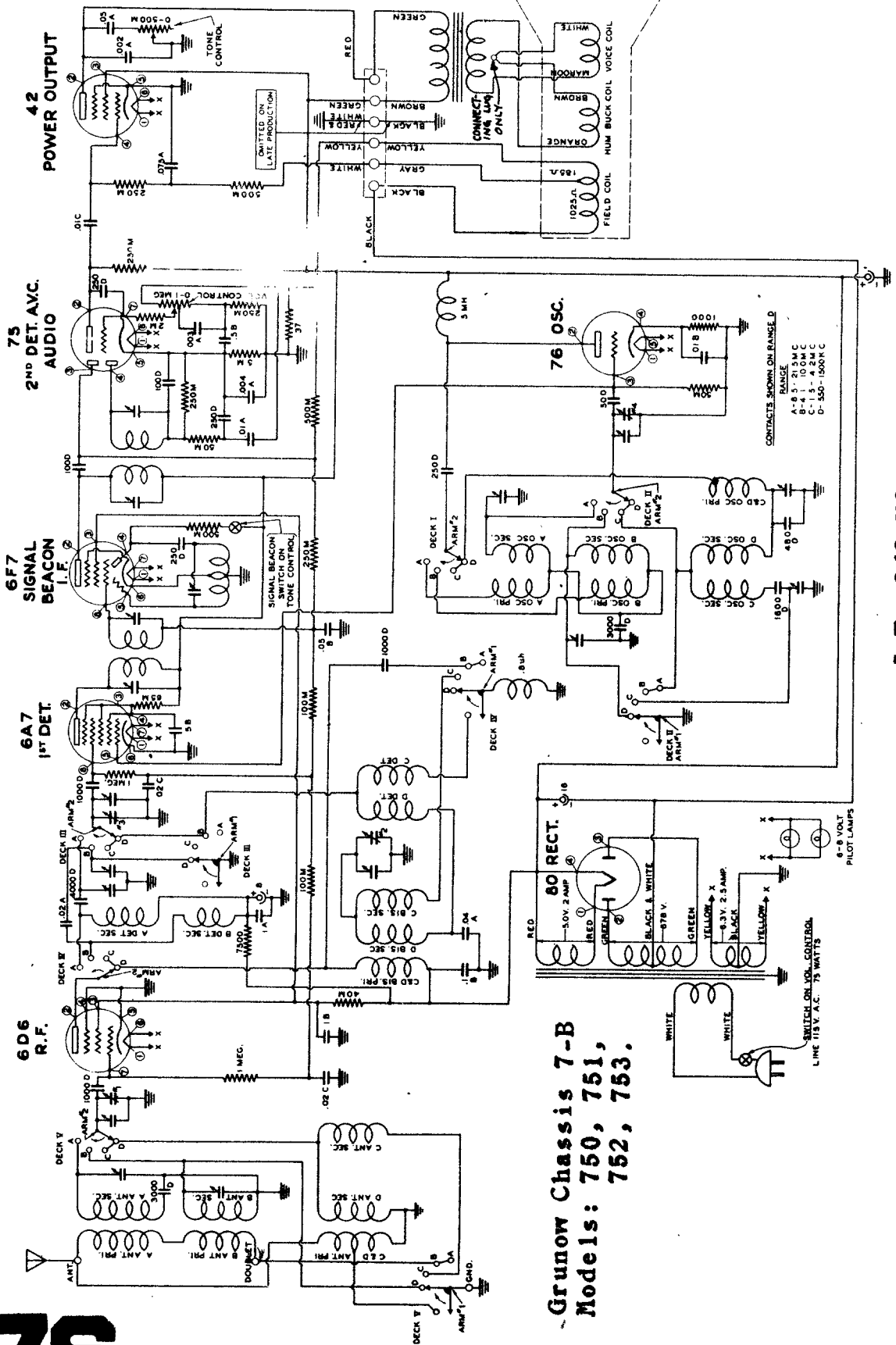


- NOTES
- 1- BROWN LINES DENOTE WIRING OF EARLY SETS- BROWN SOLID LINES AT C & D SETS
 - 2- SOLID LINES DENOTE WIRING OF LATER SETS
 - 3- RESISTOR IS 600 OHMS ON EARLY SETS
 - 4- COIL 38841 USED ON EARLY SETS HAS SECONDARY WOUND WITH LITZ WIRE COIL 37989 USED ON LATE SETS HAS SECONDARY WOUND WITH LITZ WIRE THESE COILS ARE NOT INTERCHANGEABLE

I.F. 465 KC.

Grunow Chassis 11-G
Models: 1191, 1191B

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



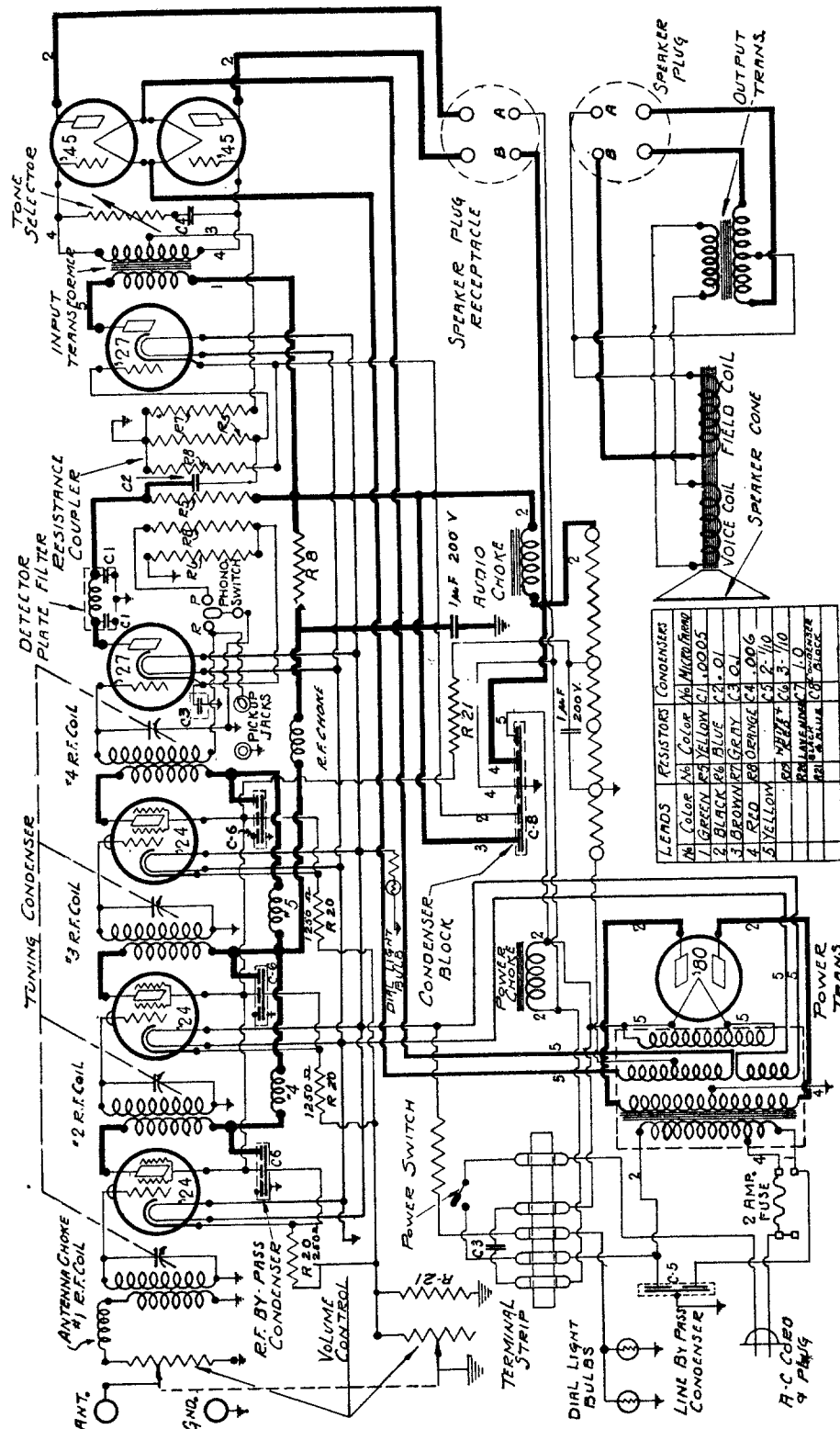
**Grunow Chassis 7-B
Models: 750, 751,
752, 753.**

I.F. 262 KC.

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MODELS 120, 130 and 140
CHASSIS MODELS "A" and "B"

General Motors

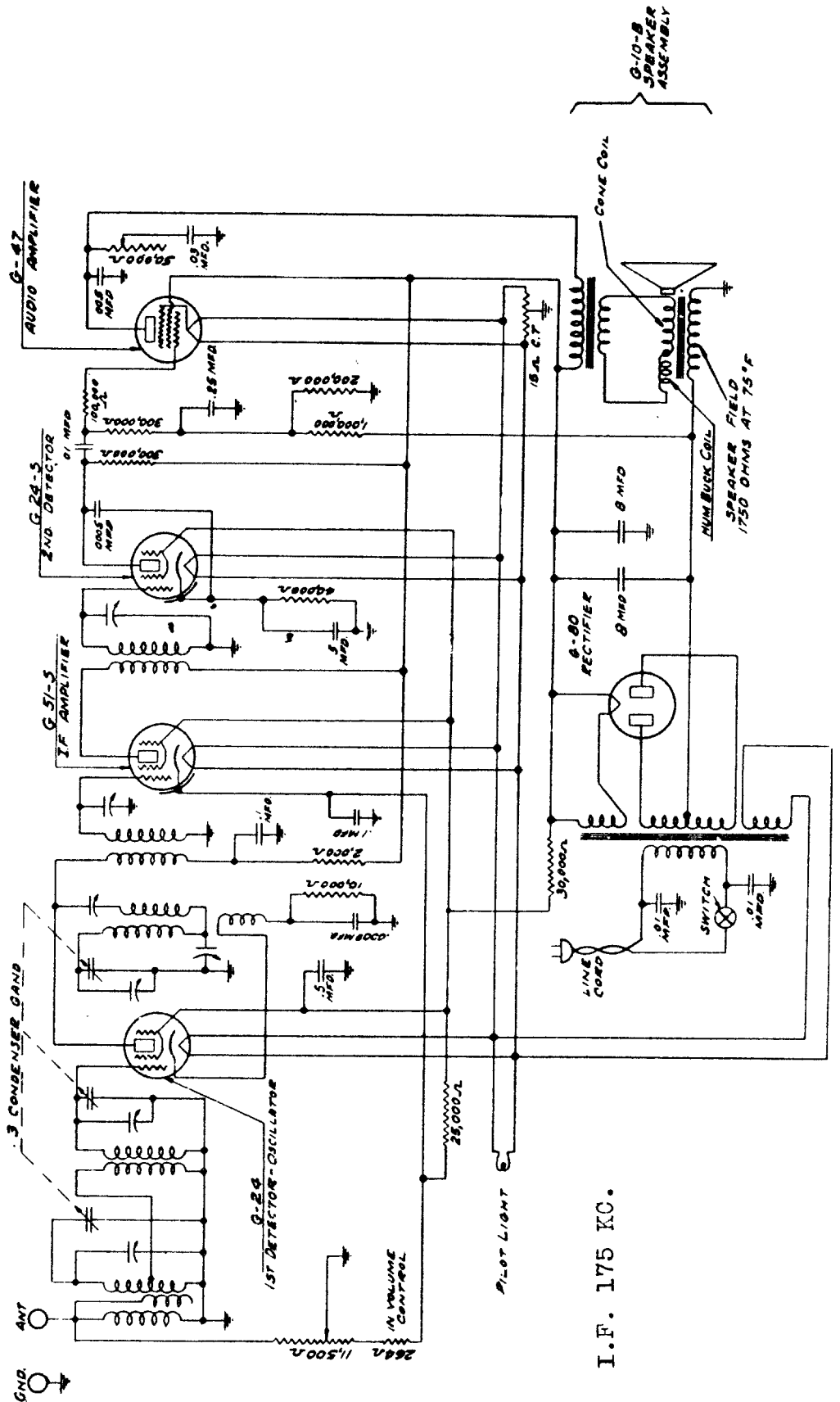


LEADS	RESISTORS	CONDENSERS
1. GREEN	1. 100Ω	1. 100μF
2. BLACK	2. 100Ω	2. 100μF
3. BROWN	3. 100Ω	3. 100μF
4. RED	4. 100Ω	4. 100μF
5. YELLOW	5. 100Ω	5. 100μF
6. BLUE	6. 100Ω	6. 100μF
7. VIOLET	7. 100Ω	7. 100μF
8. PURPLE	8. 100Ω	8. 100μF
9. PINK	9. 100Ω	9. 100μF
10. GREY	10. 100Ω	10. 100μF
11. WHITE	11. 100Ω	11. 100μF
12. SILVER	12. 100Ω	12. 100μF
13. GOLD	13. 100Ω	13. 100μF
14. BRONZE	14. 100Ω	14. 100μF
15. COPPER	15. 100Ω	15. 100μF
16. IRON	16. 100Ω	16. 100μF
17. ALUMINUM	17. 100Ω	17. 100μF
18. ZINC	18. 100Ω	18. 100μF
19. MAGNESIUM	19. 100Ω	19. 100μF
20. NICKEL	20. 100Ω	20. 100μF
21. TIN	21. 100Ω	21. 100μF
22. LEAD	22. 100Ω	22. 100μF
23. CADMIUM	23. 100Ω	23. 100μF
24. SILVER	24. 100Ω	24. 100μF
25. GOLD	25. 100Ω	25. 100μF
26. BRONZE	26. 100Ω	26. 100μF
27. COPPER	27. 100Ω	27. 100μF
28. IRON	28. 100Ω	28. 100μF
29. ALUMINUM	29. 100Ω	29. 100μF
30. ZINC	30. 100Ω	30. 100μF
31. MAGNESIUM	31. 100Ω	31. 100μF
32. NICKEL	32. 100Ω	32. 100μF
33. TIN	33. 100Ω	33. 100μF
34. LEAD	34. 100Ω	34. 100μF
35. CADMIUM	35. 100Ω	35. 100μF
36. SILVER	36. 100Ω	36. 100μF
37. GOLD	37. 100Ω	37. 100μF
38. BRONZE	38. 100Ω	38. 100μF
39. COPPER	39. 100Ω	39. 100μF
40. IRON	40. 100Ω	40. 100μF
41. ALUMINUM	41. 100Ω	41. 100μF
42. ZINC	42. 100Ω	42. 100μF
43. MAGNESIUM	43. 100Ω	43. 100μF
44. NICKEL	44. 100Ω	44. 100μF
45. TIN	45. 100Ω	45. 100μF
46. LEAD	46. 100Ω	46. 100μF
47. CADMIUM	47. 100Ω	47. 100μF
48. SILVER	48. 100Ω	48. 100μF
49. GOLD	49. 100Ω	49. 100μF
50. BRONZE	50. 100Ω	50. 100μF
51. COPPER	51. 100Ω	51. 100μF
52. IRON	52. 100Ω	52. 100μF
53. ALUMINUM	53. 100Ω	53. 100μF
54. ZINC	54. 100Ω	54. 100μF
55. MAGNESIUM	55. 100Ω	55. 100μF
56. NICKEL	56. 100Ω	56. 100μF
57. TIN	57. 100Ω	57. 100μF
58. LEAD	58. 100Ω	58. 100μF
59. CADMIUM	59. 100Ω	59. 100μF
60. SILVER	60. 100Ω	60. 100μF
61. GOLD	61. 100Ω	61. 100μF
62. BRONZE	62. 100Ω	62. 100μF
63. COPPER	63. 100Ω	63. 100μF
64. IRON	64. 100Ω	64. 100μF
65. ALUMINUM	65. 100Ω	65. 100μF
66. ZINC	66. 100Ω	66. 100μF
67. MAGNESIUM	67. 100Ω	67. 100μF
68. NICKEL	68. 100Ω	68. 100μF
69. TIN	69. 100Ω	69. 100μF
70. LEAD	70. 100Ω	70. 100μF
71. CADMIUM	71. 100Ω	71. 100μF
72. SILVER	72. 100Ω	72. 100μF
73. GOLD	73. 100Ω	73. 100μF
74. BRONZE	74. 100Ω	74. 100μF
75. COPPER	75. 100Ω	75. 100μF
76. IRON	76. 100Ω	76. 100μF
77. ALUMINUM	77. 100Ω	77. 100μF
78. ZINC	78. 100Ω	78. 100μF
79. MAGNESIUM	79. 100Ω	79. 100μF
80. NICKEL	80. 100Ω	80. 100μF
81. TIN	81. 100Ω	81. 100μF
82. LEAD	82. 100Ω	82. 100μF
83. CADMIUM	83. 100Ω	83. 100μF
84. SILVER	84. 100Ω	84. 100μF
85. GOLD	85. 100Ω	85. 100μF
86. BRONZE	86. 100Ω	86. 100μF
87. COPPER	87. 100Ω	87. 100μF
88. IRON	88. 100Ω	88. 100μF
89. ALUMINUM	89. 100Ω	89. 100μF
90. ZINC	90. 100Ω	90. 100μF
91. MAGNESIUM	91. 100Ω	91. 100μF
92. NICKEL	92. 100Ω	92. 100μF
93. TIN	93. 100Ω	93. 100μF
94. LEAD	94. 100Ω	94. 100μF
95. CADMIUM	95. 100Ω	95. 100μF
96. SILVER	96. 100Ω	96. 100μF
97. GOLD	97. 100Ω	97. 100μF
98. BRONZE	98. 100Ω	98. 100μF
99. COPPER	99. 100Ω	99. 100μF
100. IRON	100. 100Ω	100. 100μF

Circuit Diagram of Chassis with Serial Numbers Between 29100A and 6200A; and 1700B and 1946B.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

SCHEMATIC DIAGRAM OF MAJESTIC SCREEN GRID SUPERHETERODYNE RECEIVER
 MODEL 15 AND 15-B CHASSIS (SERIAL NO. 63,150 AND OVER) 115 AND 230 VOLTS, 25-50 AND 50-60 CYCLES.
 POWER REQD. - 60 WATTS

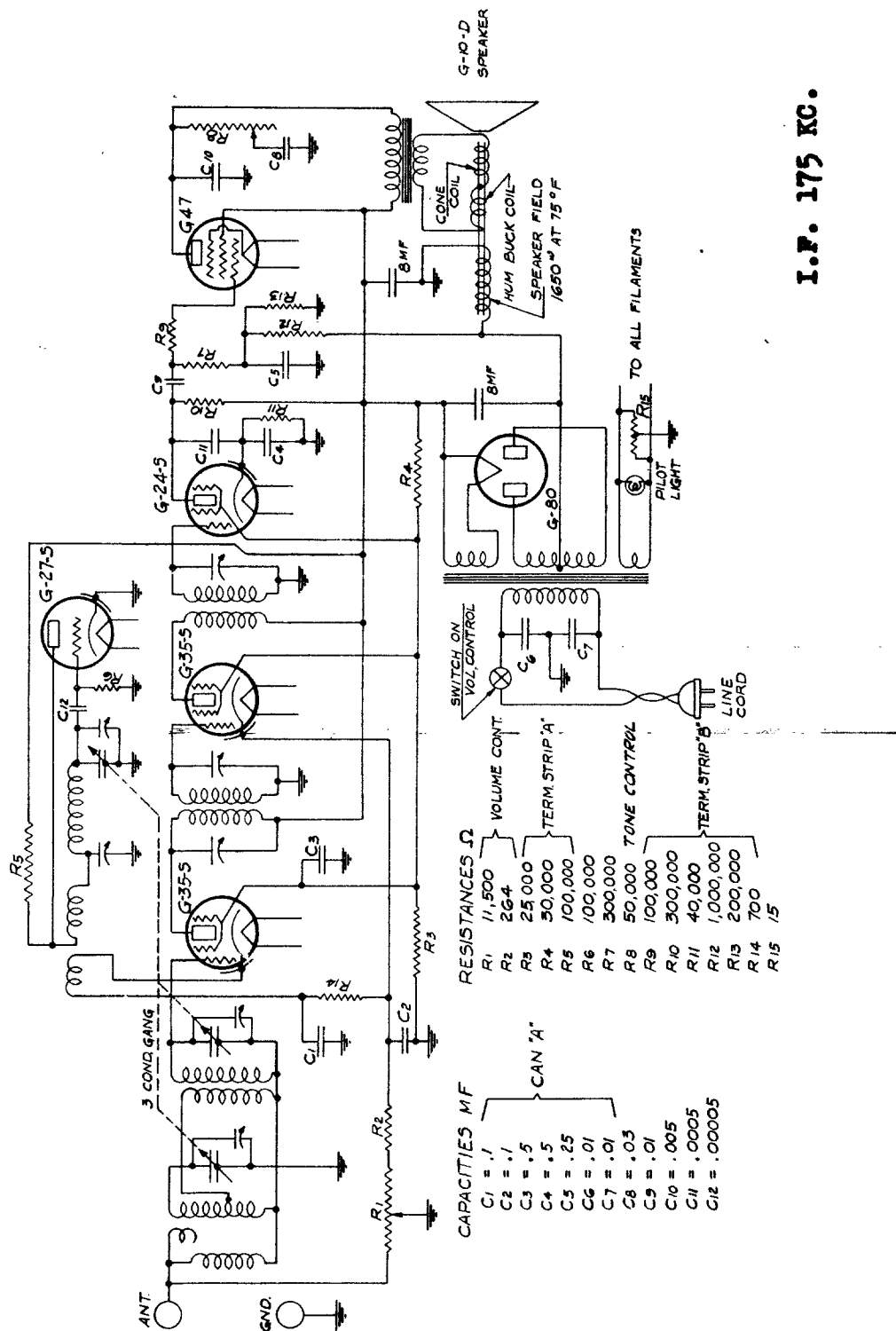


I. F. 175 KC.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

SCHMATIC DIAGRAM OF MAJESTIC SCREEN GRID SUPERHETERODYNE RECEIVER

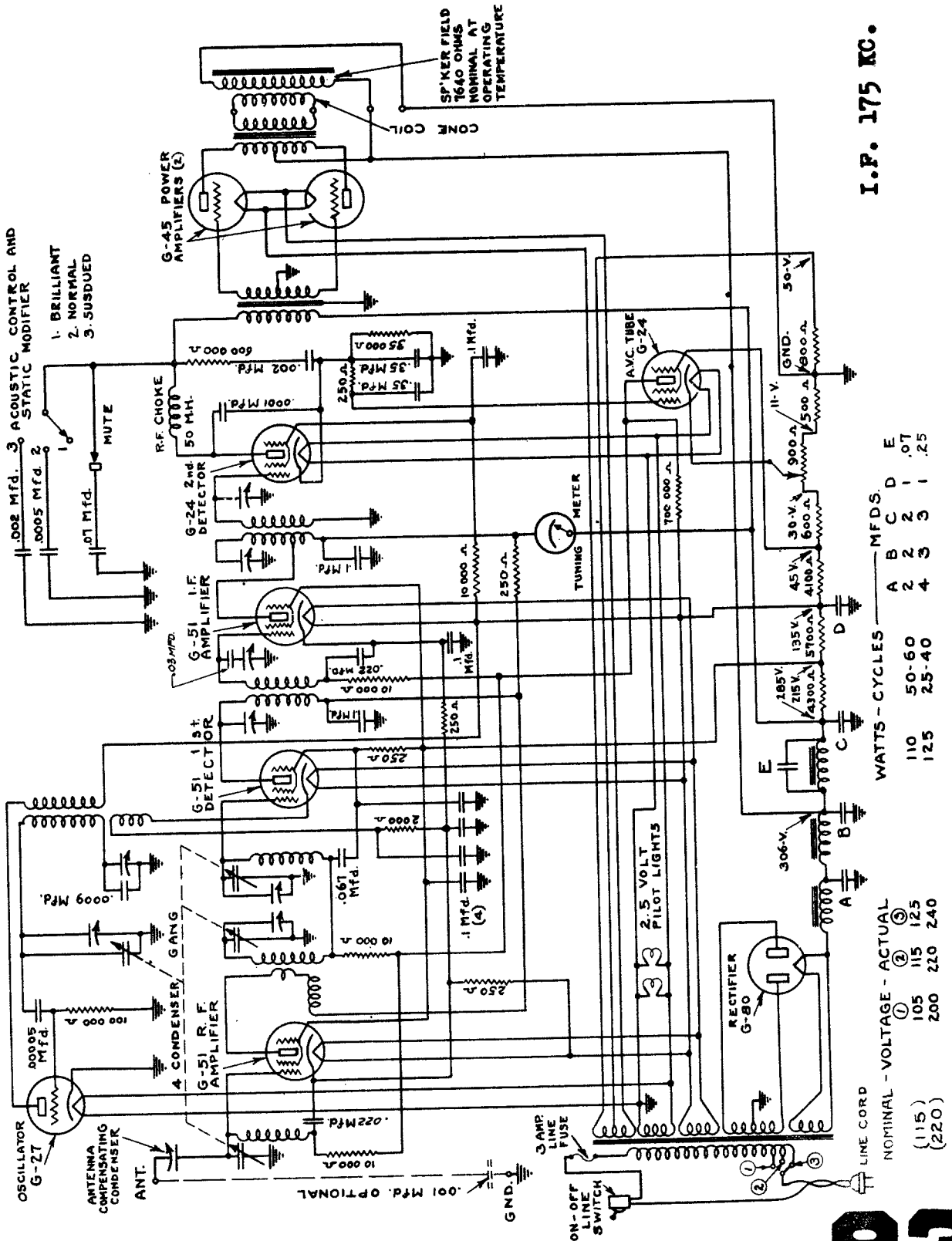
MODEL 55 CHASSIS — 115 VOLTS 50-60 CYCLES 70 WATTS



I.F. 175 KC.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

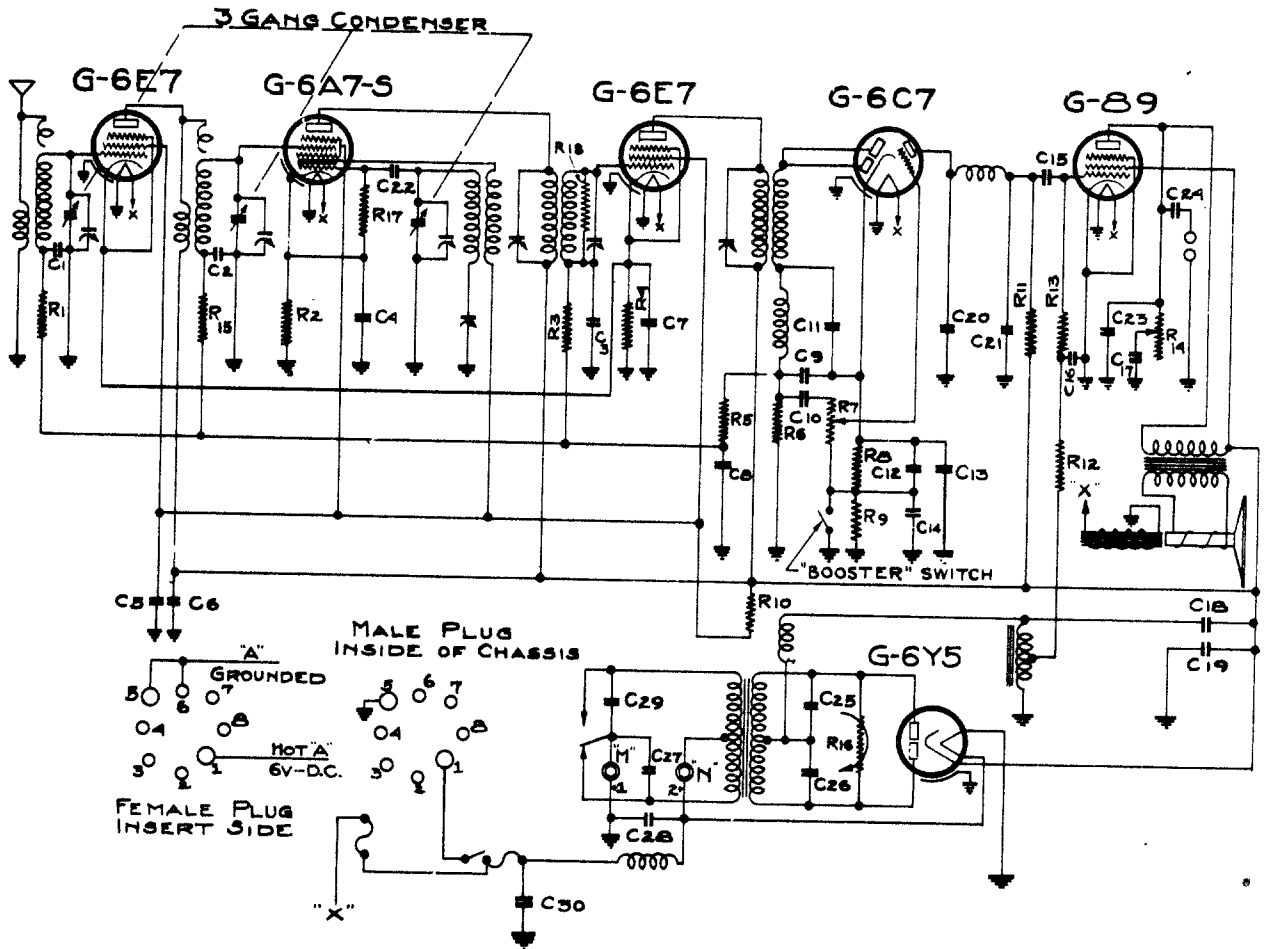
SCHEMATIC DIAGRAM OF MAJESTIC SCREEN GRID SUPERHETERODYNE AUTOMATIC VOLUME CONTROL RECEIVER - MODEL 60 CHASSIS 115 AND 220 VOLTS,



I.P. 175 KC.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

SCHEMATIC DIAGRAM OF MAJESTIC MODEL 66 AUTOMOBILE RECEIVER.



CONDENSERS

C1— .05	C16— .25
C2— .03	C17— .02
C3— .01	C18— 5.0
C4— .1	C19— 5.0
C5— .25	C20— .0005
C6— .25	C21— .0005
C7— .25	C22— .00025
C8— .03	C23— .005
C9— .0005	C24— .1
C10— .03	C25— .005
C11— .0005	C26— .005
C12— 10.	C27— .1
C13— .25	C28— .5
C14— .25	C29— .1
C15— .03	C30— .5

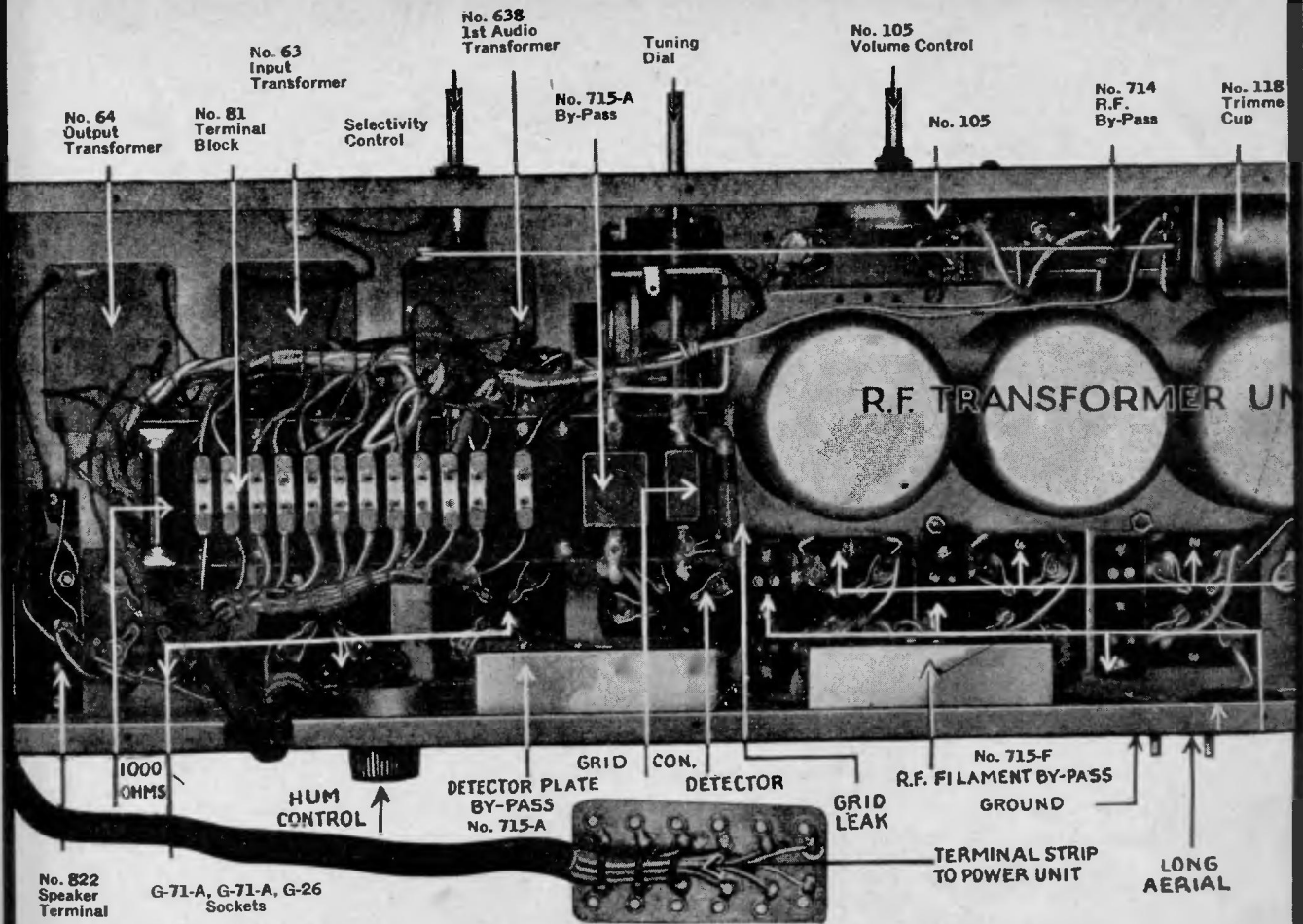
RESISTORS

R1— 300,000	R10— 10,000
R2— 250	R11— 200,000
R3— 300,000	R12— 250,000
R4— 400	R13— 250,000
R5— 300,000	R14— 50,000
R6— 100,000	R15— 300,000
R7— 200,000	R16— 500,000 GLUBAR
R8— 2,500	R17— 50,000
R9— 10,000	R18— 1,000,000

NOTE

WHEN A+ IS GROUNDED VIBRATOR LEAD #1 (BLUE) SHOULD CONNECT TO TERMINAL "M" (VIBRATOR ARMATURE) AND LEAD #2 (BLACK) SHOULD CONNECT TO TRANS. PRIMARY CENTER TAP (TERMINAL "N") WHEN A- IS GROUNDED REVERSE ABOVE CONNECTIONS.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



CHASSIS 70 and 70-B Models 71 and 72

TUBES

R. F.	G-26	1st A. F.	G-26
R. F.	G-26	P. P. Ampl.	G-71-A
R. F.	G-26	P. P. Ampl.	G-71-A
Det.	G-27	G-80 Rect.	Power Unit

THE CIRCUIT

Tuned Radio Frequency. Built upon unit assembly plan.

Chassis. Has the 3 A.F. transformers, the volume control and input circuit, sockets, balancing condensers and by-pass condensers.

Tuning Condenser. 4 gang variable condenser, dial lamp and dial.

R.F. Transformers. Entirely Contained in shield, with leads that connect to various parts.

Terminal Strip. Includes power cable, grid condenser, grid leak, detector plate R.F. by-pass condenser, 2 center tapped resistances and 2 bias resistance units.

Wiring Cable. Accomplishes the internal wiring of receiver.

INPUT SYSTEM AND VOLUME CONTROL

The volume control is effected in the input circuit, making a smooth control due to the fact that R.F. amplifiers are functioning at maximum efficiency at any degree of volume. A potentiometer is placed across the .001 condenser with the movable arm attached to the antenna and controls signal voltage impressed across this condenser.

SELECTIVITY CONTROL

Integral with the input system is the antenna trimmer, which operates to vary the inductance of the antenna input coil and permits adjusting the input circuit to exact resonance with the other 3 tuned circuits.

CHASSIS 90-B

Models 90, 91, 93

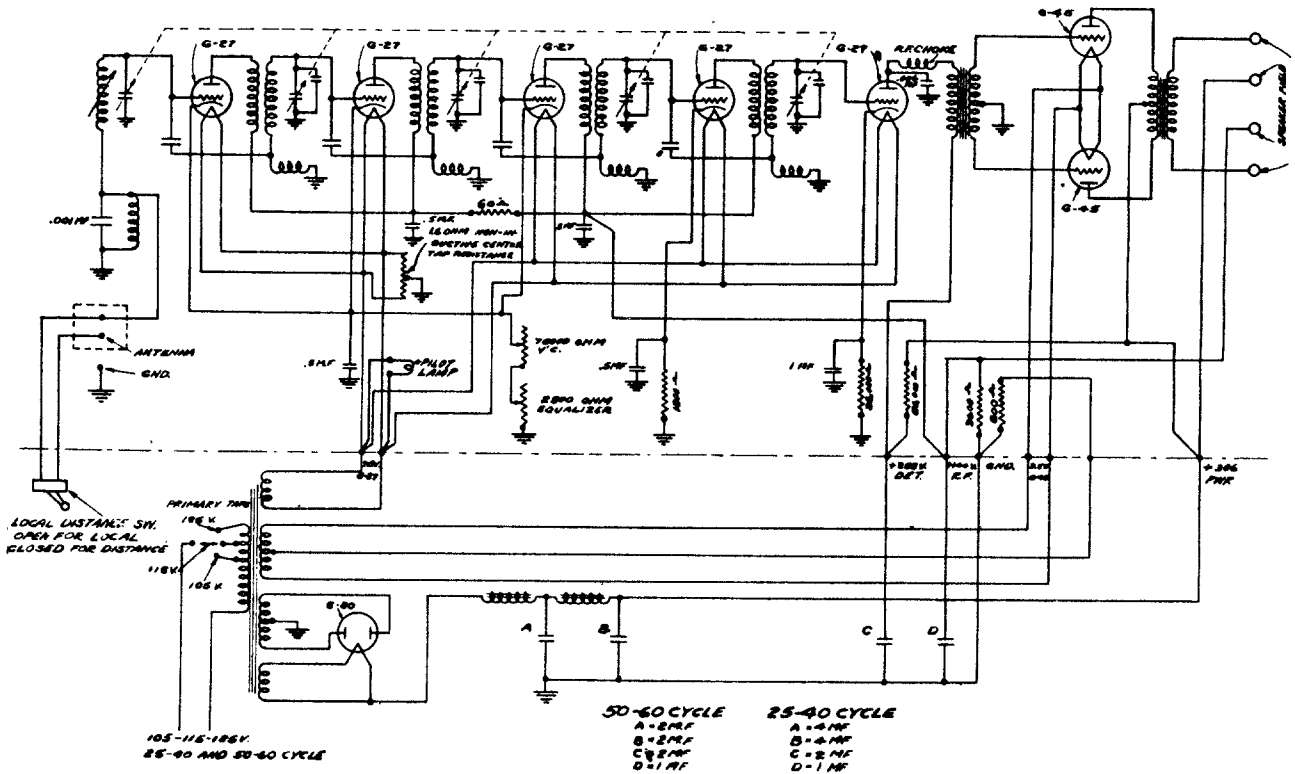


TABLE OF VOLTAGES

The voltage readings given below were taken with the receiver turned to 550 kilocycles, and the volume control set at maximum. When taking comparative readings, be certain that receiver is tuned to 550 kilocycles and volume control is set at maximum.

Tube Purpose	Tube Type	Filament Voltage	Plate Voltage	Grid Bias Voltage	Cathode Volts	Normal Plate Milli-amperes
1st R. F.	G-27	2.35	130	8	8	5.5
2nd R. F.	G-27	2.35	130	8	8	5.5
3rd R. F.	G-27	2.35	130	8	8	5.5
4th R. F.	G-27	2.35	130	9	9	5.0
Detector	G-27	2.35	230	25	25	.8
Power	G-45	2.45	250	50	..	32
Power	G-45	2.45	250	50	..	32
Rectifying	G-80	..	..	..	..	..

Line Voltage 115 A. C. on 115 volt tap.

ANTENNA SWITCH

To prevent distortion of tone from close-by powerful transmitters on moderately long antenna, snap switch to "Local" position. Use "Distance" position for stations with less powerful reception.

ADJUSTMENT FOR LINE VOLTAGE

On the left side, directly in front of the G-80 Socket, you will note a small plate. Determine with A. C. Voltmeter or from local power company the average line voltage.

Upon removing the adjustment plate, you will find three taps, marked 105 Volts, 115 Volts and 125 Volts.

THE CIRCUIT

The T.R.F. balanced circuit is employed with a single control, five gang condenser. The detector output is fed directly to the push-pull audio stage. The selectivity control or trimmer functions by varying the inductance of the antenna input coil and permits adjustment in the input circuit to exact resonance with the other tuned circuits.

The R. F. Unit assembly (No. 1434) includes the radio frequency transformers with shields, the R. F. Sockets, the balancing condensers and the radio frequency, cathode and plate By-Pass Condensers. The terminal strip includes one 800 Ohm, one 1,800 Ohm and one 50,000 Ohm Resistor, being the bias resistors of the Power Tubes, the 4th R.F. Tube and the Detector Plate resistance respectively.

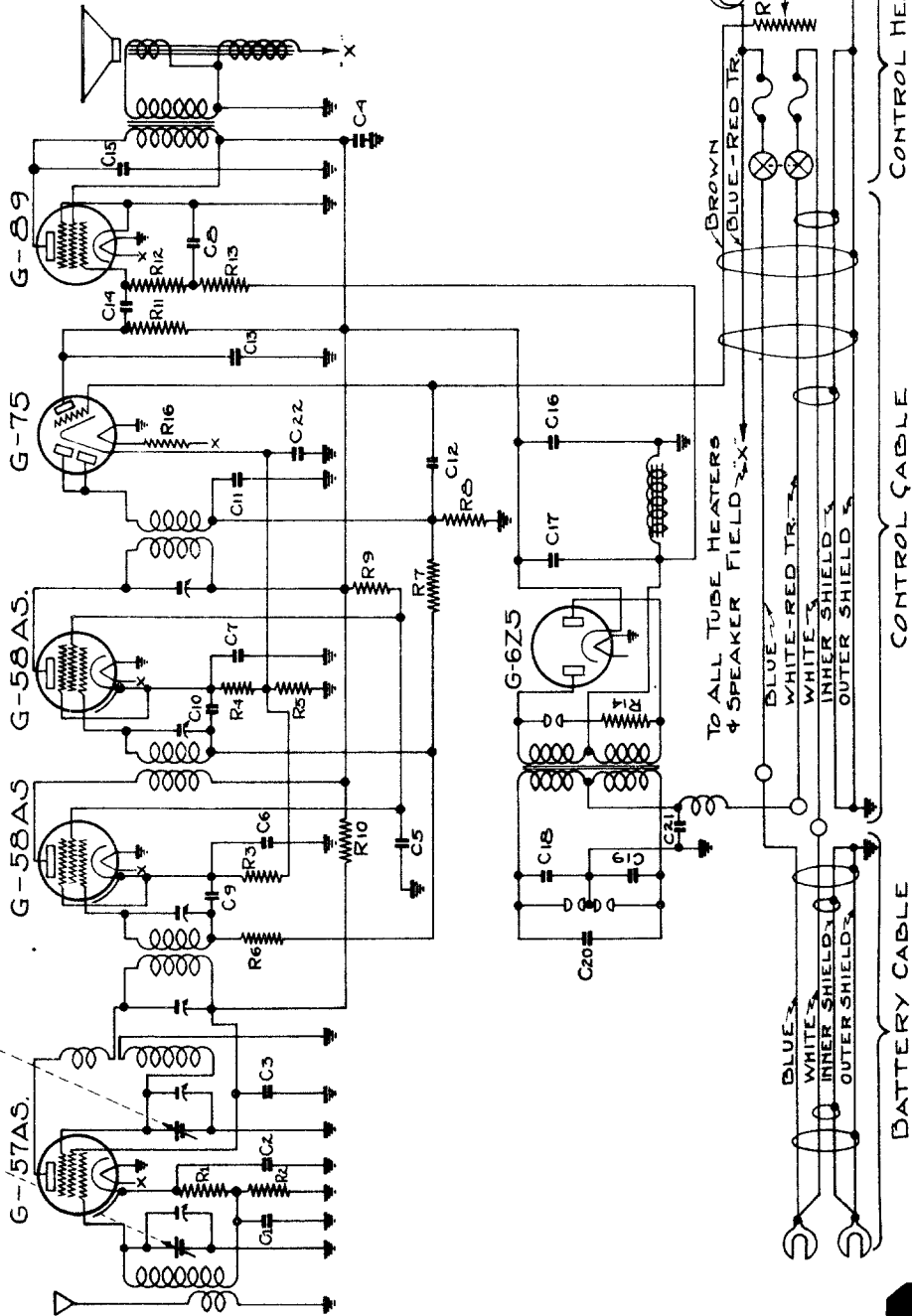
POWER SUPPLY

Composed of Power Transformer, a Choke Unit and Condenser Bank for the filter system. The resistors (800 and 3,600 Ohm) are placed on terminal strip. A Type G-80 Rectifying tube is used.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

MAJESTIG-MODEL 116-AUTOMOBILE RECEIVER

2 GANG
CONDENSER



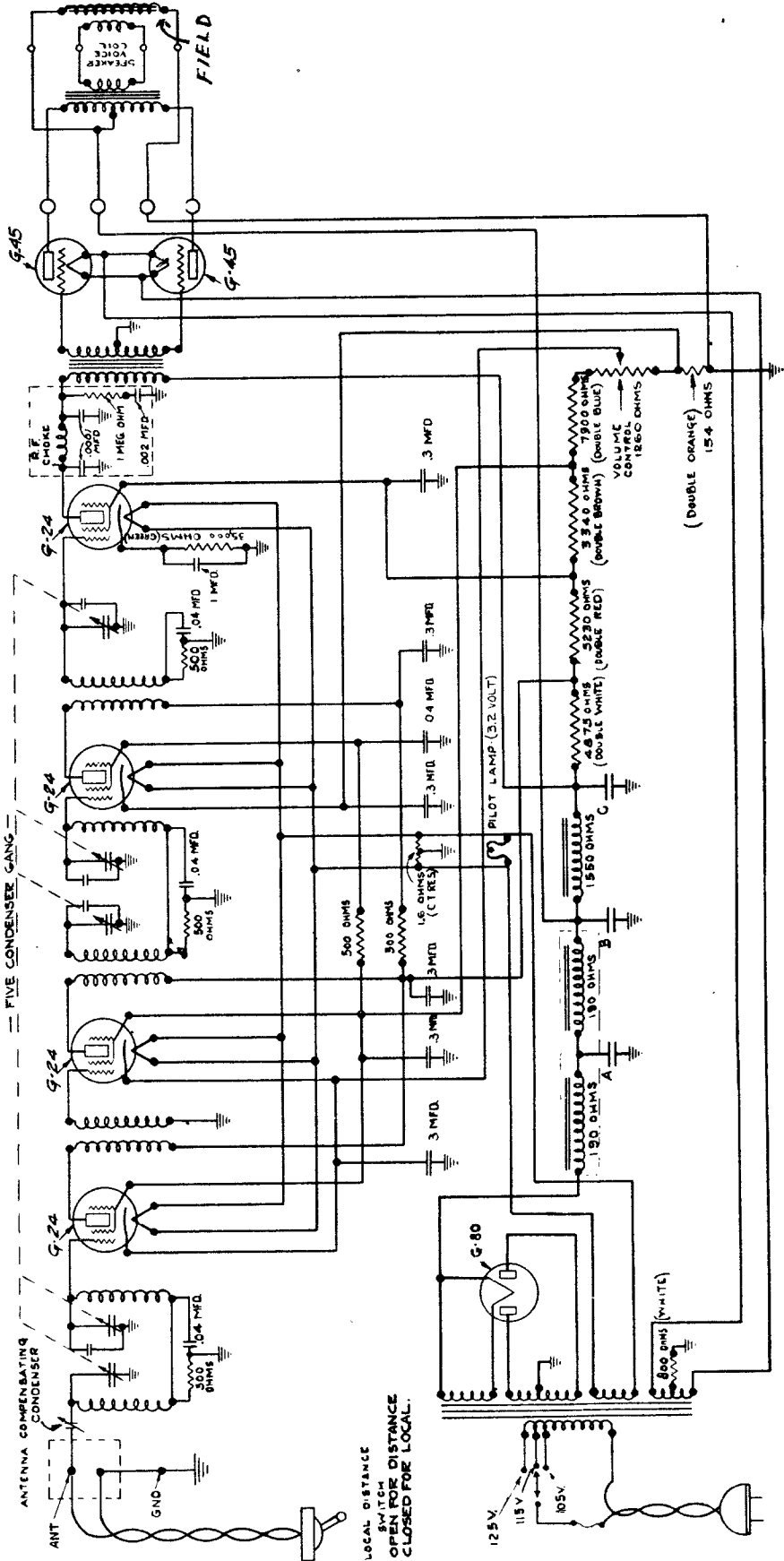
CONDENSER VALUES	
No.	MEP.
C1	.1
C2	.01
C3	.03
C4	.01
C5	.005
C6	.01
C7	.01
C8	.01
C9	.03
C10	.01
C11	.0005

RESISTOR VALUES	
No.	Ohms
R1	300
R2	3000
R3	200
R4	200
R5	150
R6	99000
R7	500000
R8	99000
R9	30000
R10	15000
R11	99000
R12	250000
R13	250000
R14	40000
R15	250000
R16	1.5 Ohms

I.F. 175 KC.

SCHMATIC DIAGRAM of MAJESTIC SUPER SCREEN GRID RECEIVER

MODEL 130-A CHASSIS 25-40 & 50-60 CYCLE

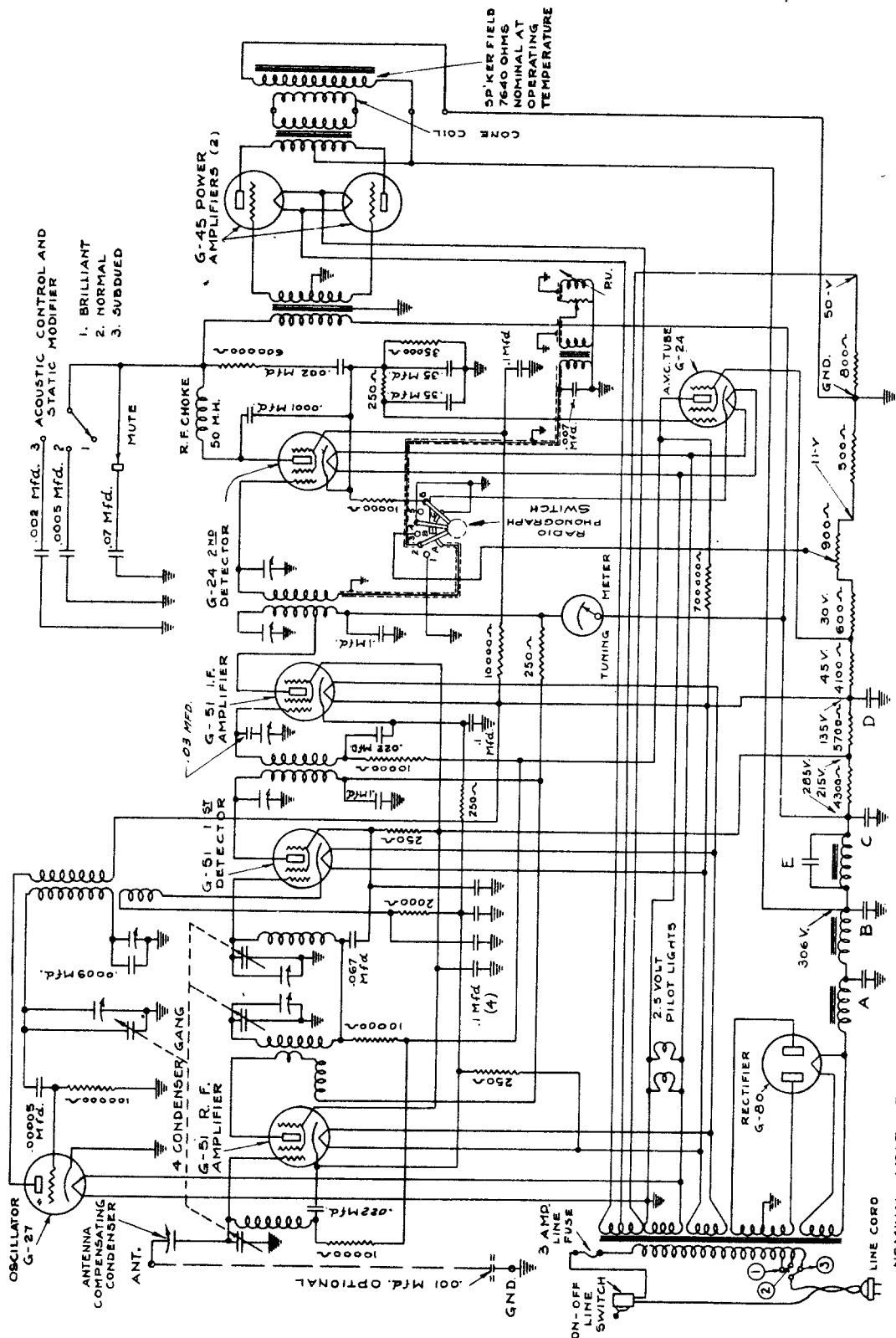


LOCAL DISTANCE SWITCH OPEN FOR DISTANCE CLOSED FOR LOCAL.

- 50-60 CYCLE
 - A = 2 MF
 - B = 3 MF
 - C = 2 MF
- 25-40 CYCLE
 - A = 4 MF
 - B = 4 MF
 - C = 2 MF

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

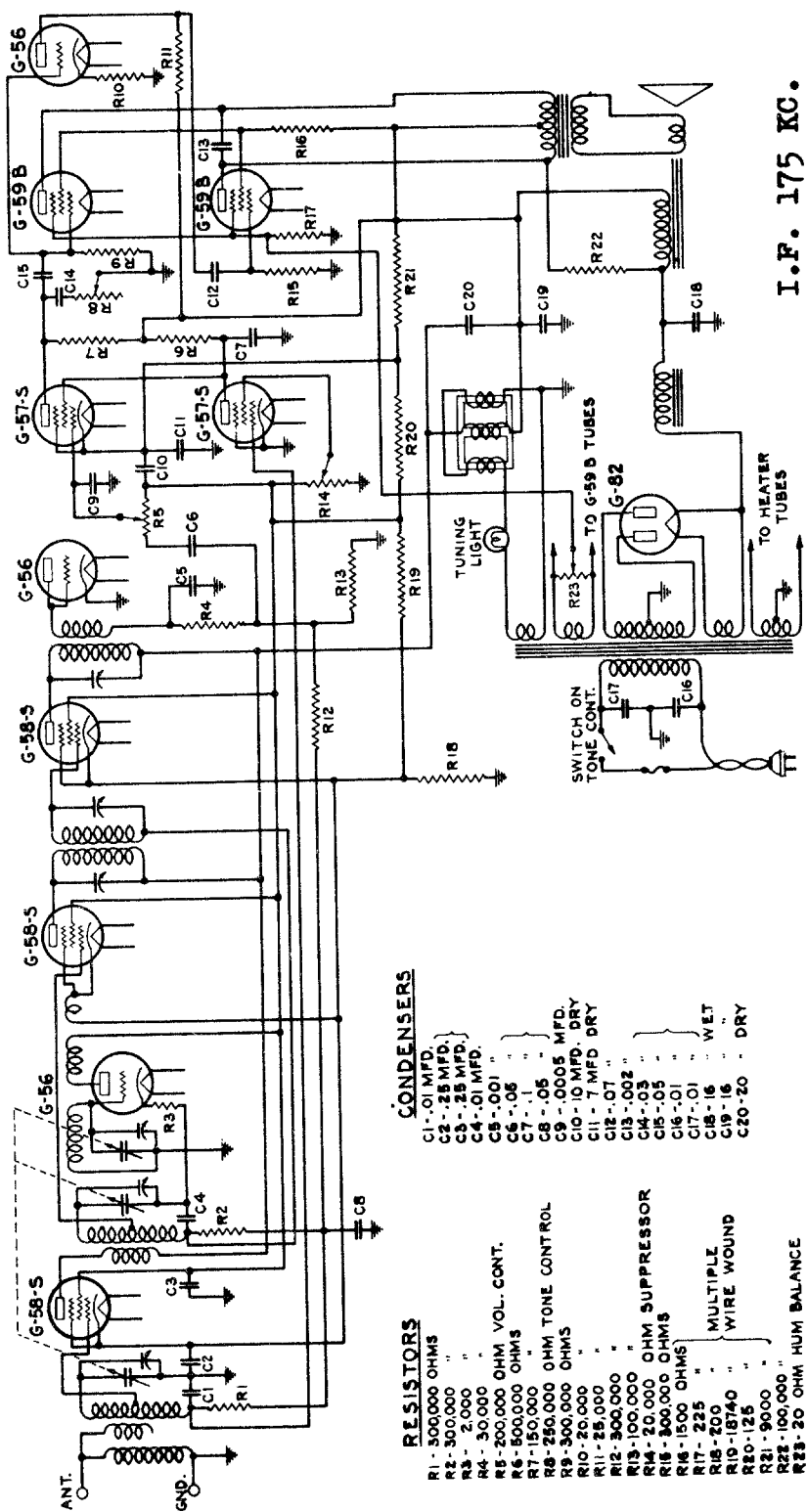
SCHEMATIC DIAGRAM OF MAJESTIC SCREEN GRID SUPERHETERODYNE AUTOMATIC VOLUME CONTROL RECEIVER AND ELECTRIC PHONOGRAPH COMBINATION MODEL 160 CHASSIS 115 AND 220 VOLTS, 25 - 40 AND 50-60 CYCLES.



NOMINAL - VOLTAGE - ACTUAL	WATTS - CYCLES				
	A	B	C	D	E
(115)	105	115	125	2	2
(220)	200	220	240	4	5
				3	1
				2	.07
				3	.25

I.F. 175 KC.

MAJESTIC MODEL 360 RECEIVER



I.F. 175 KC.

CONDENSERS

- C1 - .01 MFD.
- C2 - .25 MFD.
- C3 - .25 MFD.
- C4 - .01 MFD.
- C5 - .001 "
- C6 - .05 "
- C7 - .1 "
- C8 - .0005 MFD.
- C9 - 10 MFD. DRY
- C10 - 7 MFD. DRY
- C11 - .07 "
- C12 - .02 "
- C13 - .03 "
- C14 - .05 "
- C15 - .01 "
- C16 - .01 "
- C17 - .01 "
- C18 - .16 " WET
- C19 - .16 " "
- C20 - .20 " DRY

RESISTORS

- R1 - 500,000 OHMS
- R2 - 300,000 "
- R3 - 2,000 "
- R4 - 30,000 "
- R5 - 200,000 OHM VOL. CONT.
- R6 - 800,000 OHMS
- R7 - 150,000 "
- R8 - 250,000 OHM TONE CONTROL
- R9 - 300,000 OHMS
- R10 - 20,000 "
- R11 - 25,000 "
- R12 - 500,000 "
- R13 - 100,000 "
- R14 - 20,000 OHM SUPPRESSOR
- R15 - 800,000 OHMS
- R16 - 1500 OHMS
- R17 - 225 "
- R18 - 200 "
- R19 - 18740 "
- R20 - 125 "
- R21 - 9000 "
- R22 - 100,000 "
- R23 - 20 OHM HUM BALANCE

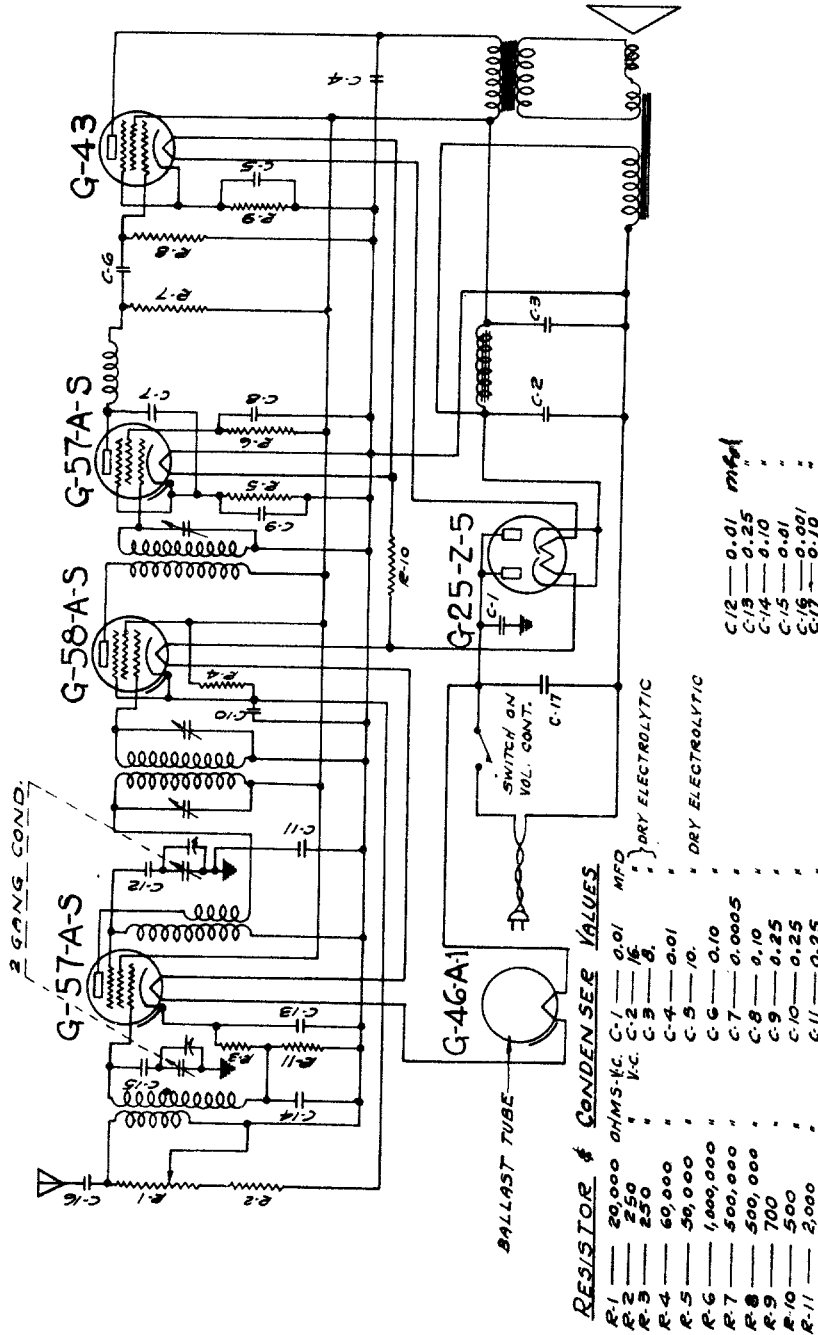
The Model 360 is an eleven tube chassis designed for single speaker operation in the Model 363 receiver. This chassis is very similar to the Model 300 chassis in that it provides Synchron-Silent Tuning, resistance coupled push-pull output, reactance dimmer action and automatic volume control. The tubes employed and their respective stages are as follows: G-58-S, R.F. amplifier; G-56, Oscillator; G-58-S, first detector; G-58-S, I.F. amplifier; G-56, second detector; G-57-S, first audio amplifier, G-57-S, suppressor; G-56, phase rotator; two G-59-B push-pull output and G-82 rectifier.

MODEL 400 CHASSIS

and

MODEL G-26-C SPEAKER

SCHEMATIC DIAGRAM OF MAJESTIC SCREEN GRID
AC.-D.C. SUPERHETERODYNE RECEIVER MODEL - 400



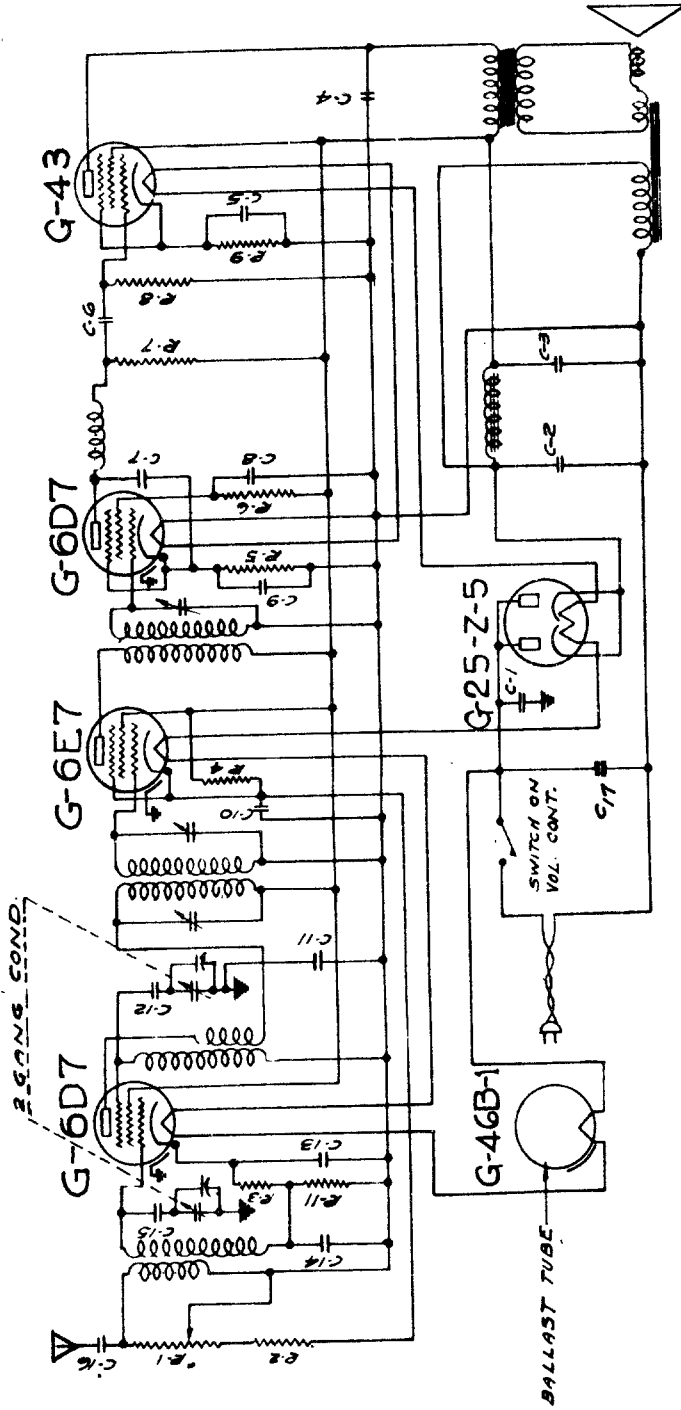
1 - With the volume control in maximum volume position and the gang condenser completely out of mesh, supply a 456 K.C. signal to the grid of the modulator tube and adjust the 4 I.F. tuning condensers for maximum sensitivity.

ALIGNMENT PROCEDURE

2 - With the gang condenser and volume control in the same position, supply a 1730 K.C. signal to the input of the receiver and align the 2 R.F. trimmer condensers for maximum sensitivity.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

SCHEMATIC DIAGRAM OF MAJESTIC SCREEN GRID A.C.-D.C. SUPERHETERODYNE RECEIVER MODEL - 400-A



RESISTOR & CONDENSER VALUES

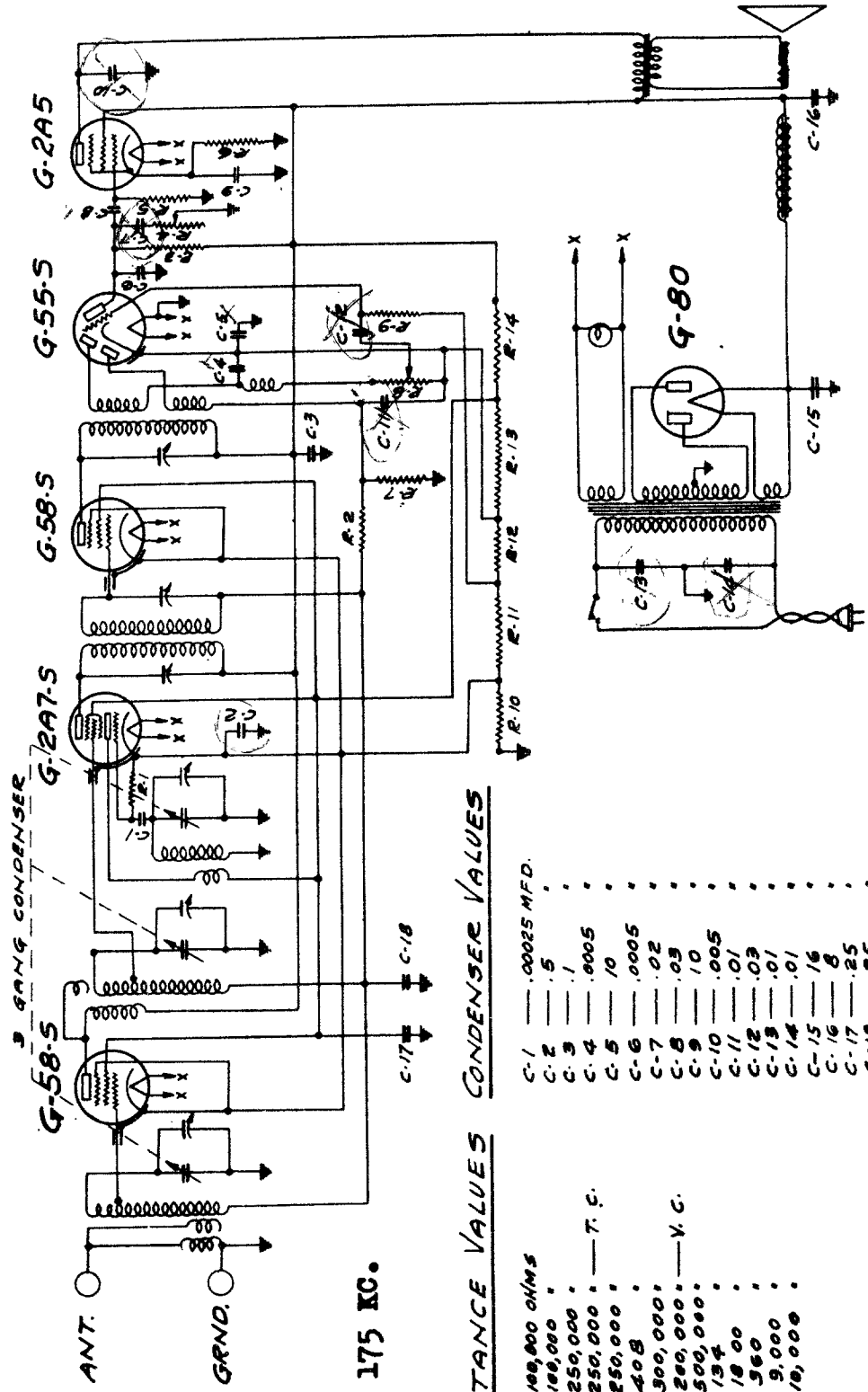
RESISTOR	VALUE	CONDENSER	VALUE	TYPE
R-1	20,000	C-1	0.01	MFD
R-2	250	C-2	16	DRY ELECTROLYTIC
R-3	160	C-3	8	DRY ELECTROLYTIC
R-4	60,000	C-4	0.01	
R-5	50,000	C-5	10	DRY ELECTROLYTIC
R-6	1,000,000	C-6	0.10	
R-7	500,000	C-7	0.0005	
R-8	500,000	C-8	0.10	
R-9	700	C-9	0.25	
R-10	—	C-10	0.25	
R-11	2500	C-11	0.25	
		C-12	0.01	
		C-13	0.25	
		C-14	0.10	
		C-15	0.01	
		C-16	0.01	
		C-17	0.10	

I.F. 456 KC.

The circuit of the Model 400-A chassis is practically the same as that of the Model 400. The main differences being that the types G-6D7 and G-6E7 tubes are used in place of types G-57A-S and G-58A-S respectively; and that a type G-46A-1 tube is used as a ballast in place of the G-46B-1.

Resistors R-3 and R-11 have a value of 160 and 2500 ohms respectively in the Model 400-A chassis while they have a value of 250 and 200 ohms in the Model 400 chassis. Resistor R-10 is omitted entirely.

SCHEMATIC DIAGRAM
OF
MAJESTIC MODEL-460 RECEIVER

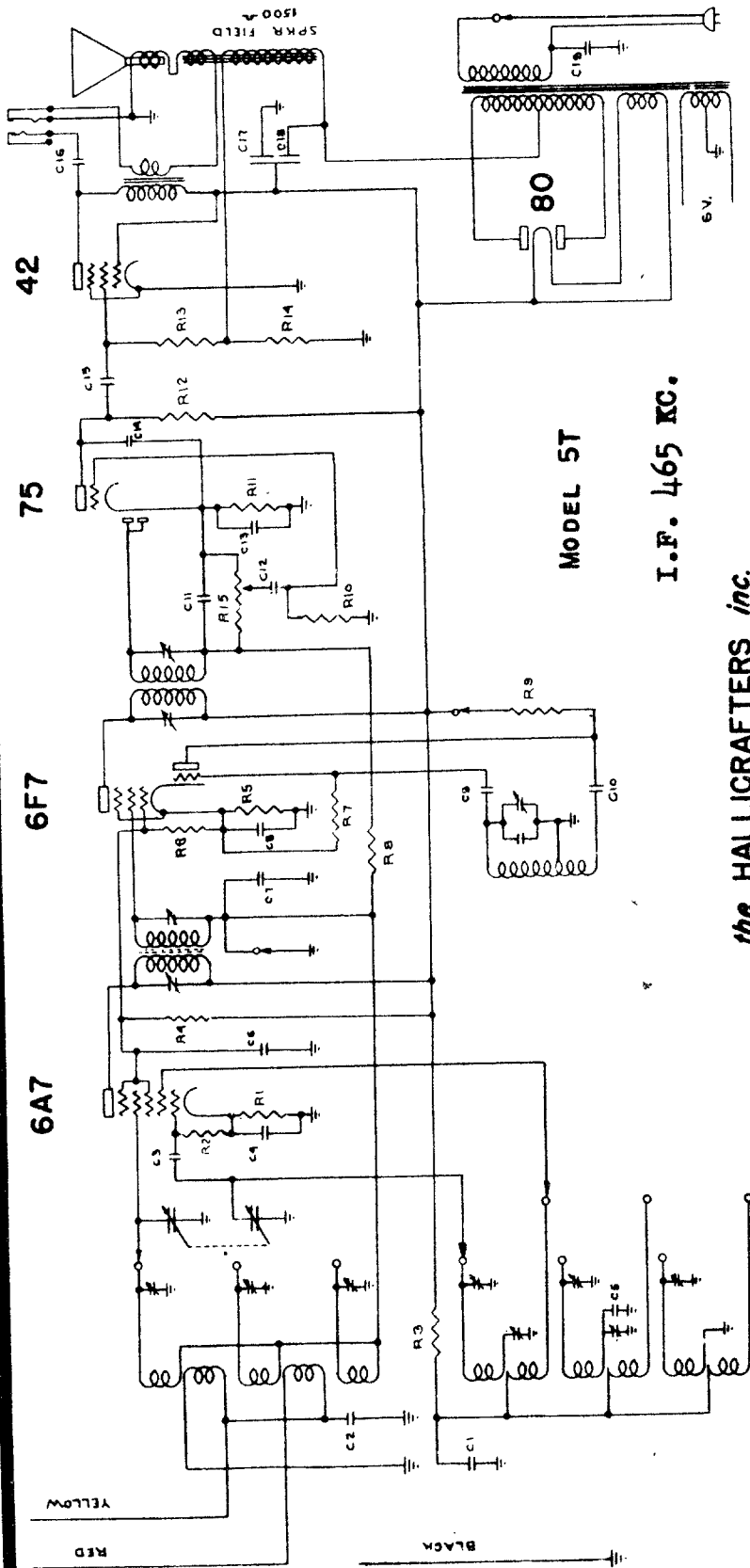


I.F. 175 KC.

RESISTANCE VALUES CONDENSER VALUES

R-1	— 100,000 OHMS	C-1	— .00025 MFD.
R-2	— 100,000 "	C-2	— .5
R-3	— 250,000 "	C-3	— .1
R-4	— 250,000 "	C-4	— .0005
R-5	— 250,000 "	C-5	— 10
R-6	— 400 Ω	C-6	— .0005
R-7	— 500,000 "	C-7	— .02
R-8	— 200,000 "	C-8	— .03
R-9	— 500,000 "	C-9	— 10
R-10	— 134	C-10	— .005
R-11	— 1800	C-11	— .01
R-12	— 360	C-12	— .03
R-13	— 9,000 "	C-13	— .01
R-14	— 10,000 "	C-14	— .01
		C-15	— 16
		C-16	— 8
		C-17	— .25
		C-18	— .25

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



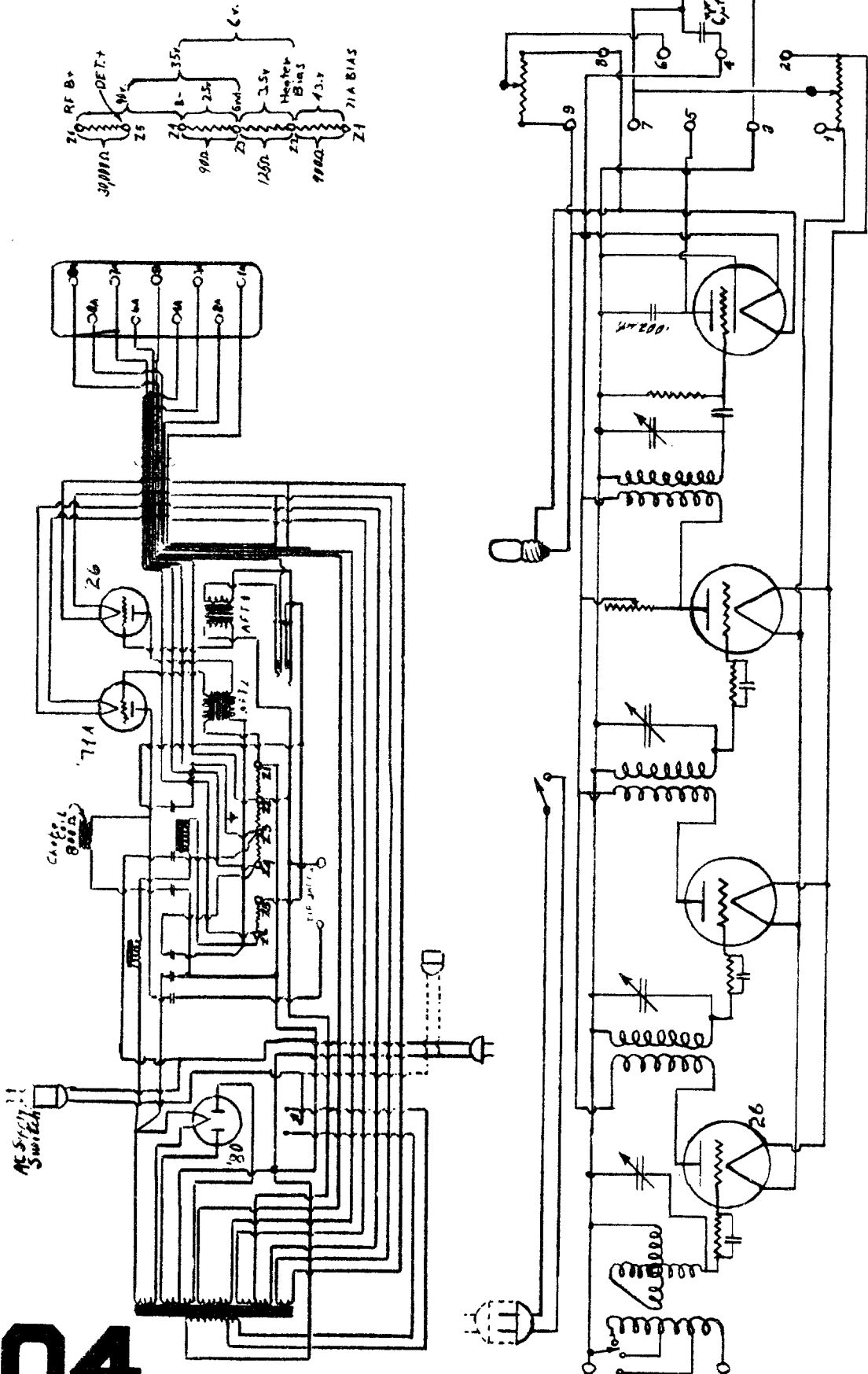
MODEL 5T
I.F. 465 KC.

the HALLICRAFTERS inc.
SKY BUDDY

R1	250
R2	30,000
R3	25,000
R4	25,000
R5	200
R6	25,000
R7	100,000
R8	1 mΩ
R9	100,000
R10	1 mΩ
R11	4000
R12	250,000
R13	400,000
R14	250

C14	250 mmf
C15	.01
C16	.05
C17	8.mfd
C18	4.mfd
C19	.01

C1	.1
C2	10 mmf
C3	100 mmf
C4	.1
C5	1000 mmf
C6	.1
C7	.05
C8	.1
C9	250
C10	.01
C11	250 mmf
C12	.01
C13	.1



Kolster Radio, Inc.
Models: K-22, K-20, K-27

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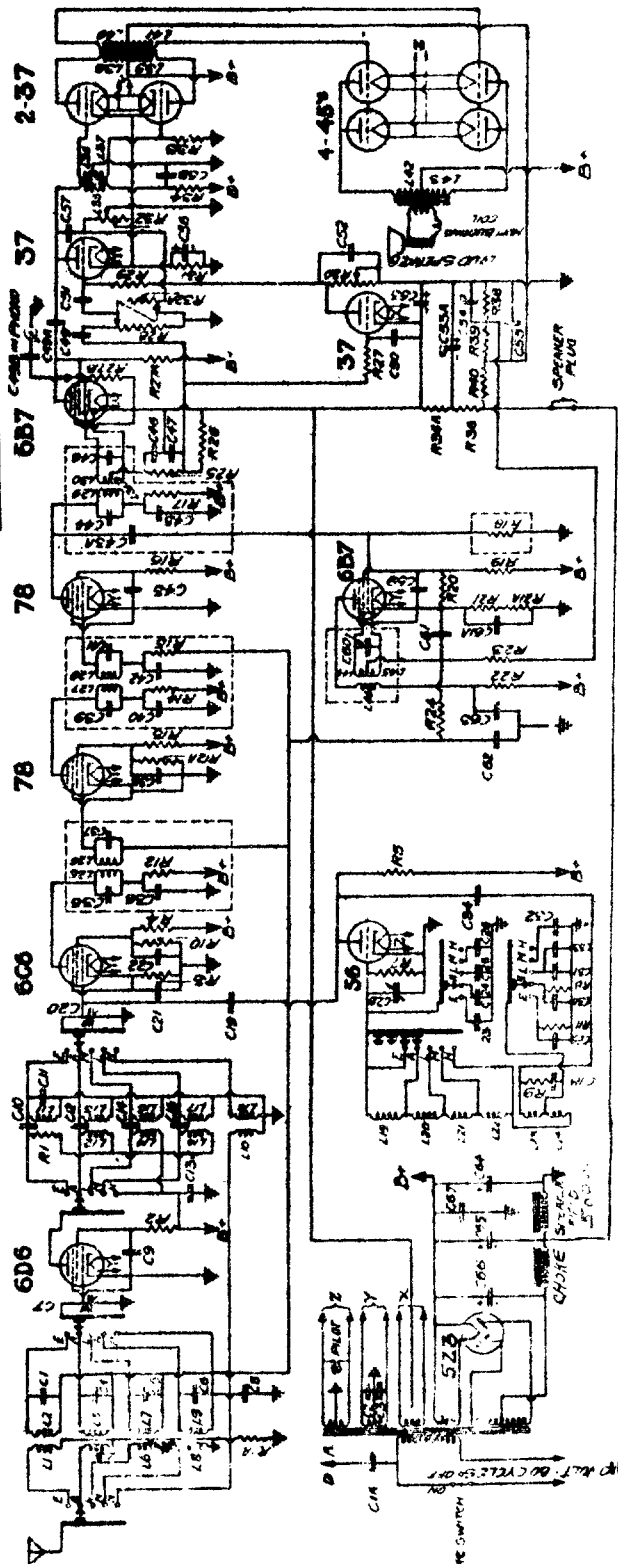
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C3 - .05	200	TRIMMER
C4 - 20 MMFD - TRIMMER	C59 - 1.0	TRIMMER
C5 - 20	C60 - 1.0	600 VOLT
C6 - 20	C61 - 300 MFD	200
C7 - 365	C62 - .05	600
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C22 - .05	R9 - 10 000	25
C23 - 80 MMFD - TRIMMER	R10 - 50 000	25
C24 - 20	R11 - 5 000	25
C25 - 20	R12 - 5 000	25
C26 - 20	R13 - 100 000	25
C27 - 365	R14 - 200 000	25
C28 - 180	R15 - 5 000	25
C29 - 360	R16 - 3 MFD	25
C30 - 700	R17 - 200 000	25
C31 - 3000	R18 - 5 000	25
C32 - 500	R19 - 25 000	5
C33 - 2000	R20 - 50 000	5
C34 - 1.0	R21 - 4 000	25
C35 - .05 MFD - 400 VOLT	R22 - 4 000	25
C36 - .05	R23 - 5 000	25
C37 - 1.0	R24 - 6 000	25
C38 - .05 MFD - 400 VOLT	R25 - 500 000	25
C39 - 1.0	R26 - 100 000	25
C40 - .05 MFD - 200 VOLT	R27 - 100 000	25
C41 - .05	R28 - 500 070	25
C42 - .05 MFD - 400 VOLT	R29 - 800 000	25
C43 - .05	R27A - 500 000	25
C44 - 25 MMFD - MICA	R27B - 100 000	25
C45 - 1.0	R28 - 500 000	25
C46 - .05 MFD - 400 VOLT	R29 - 500 000	25
C47 - 250	R30 - 50 000	25
C48 - 1.0	R31 - 700	1 FILE VARIABLE
C49 - .05 MFD - 200 NET	R32 - 30 000	1 VARIABLE TUNE CONTROL
C50 - .05	R33 - 50 000	1 VARIABLE TUNE CONTROL
C51 - .05	R34 - 50 000	1 VARIABLE TUNE CONTROL
C52 - .05	R35 - 10 000	25
C53 - .05	R36 - 15 000	1
C54 - .05	R37 - 25 000	25
C55 - 25	R38 - 25 000	25
C56 - 10	R39 - 10 000	25
C57 - .05	R40 - 100 000	25
C58 - .05	R41 - 50 000	25
C59 - .05		
C60 - .05		
C61 - .05		
C62 - .05		
C63 - .05		
C64 - .05		
C65 - .05		
C66 - .05		



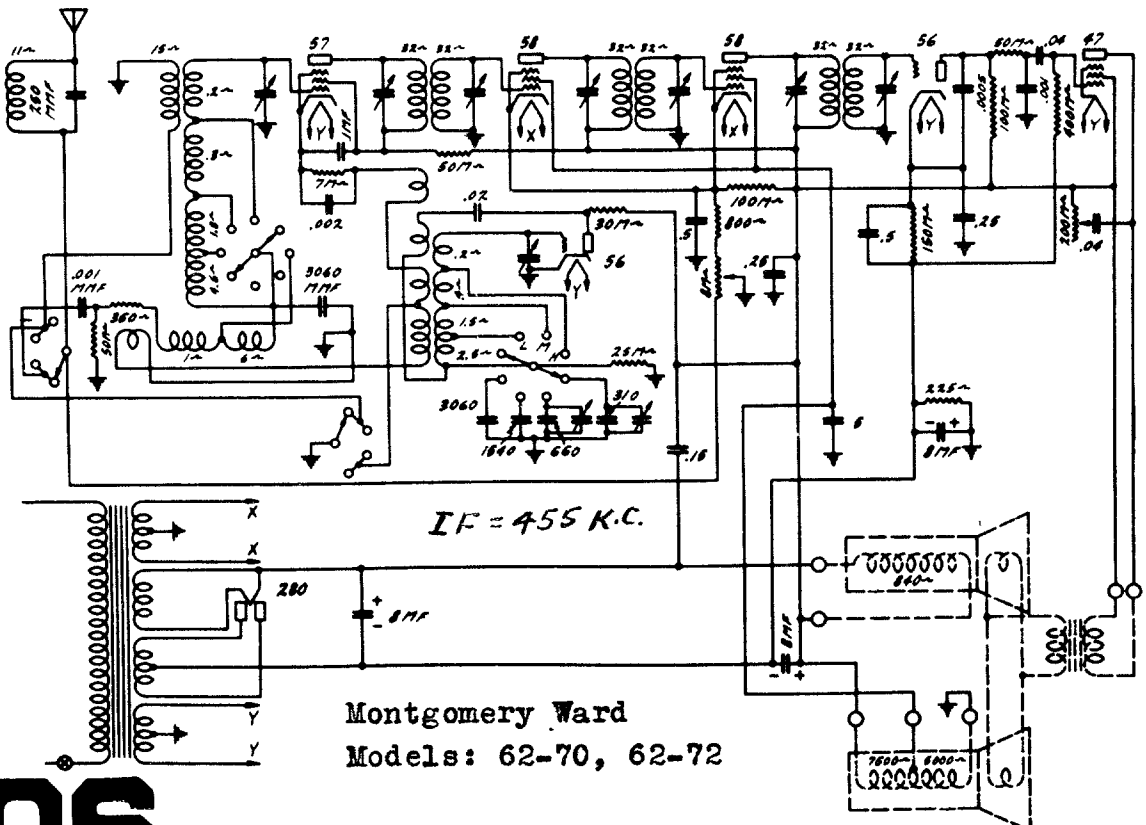
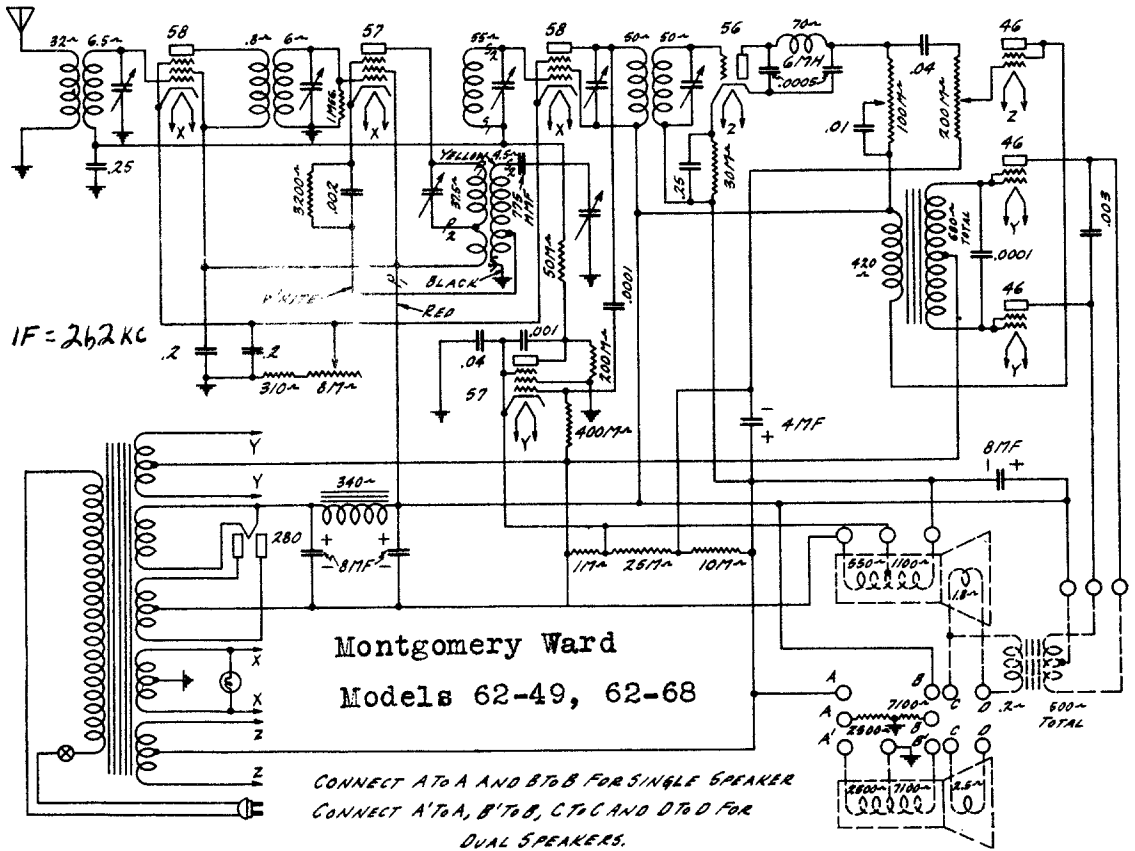
THE MIDWEST RADIO CORP.
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 SCHEMATIC CIRCUIT DIAGRAM
 OF THE
 MODEL 15-34 SET

I.F. 450 KC.

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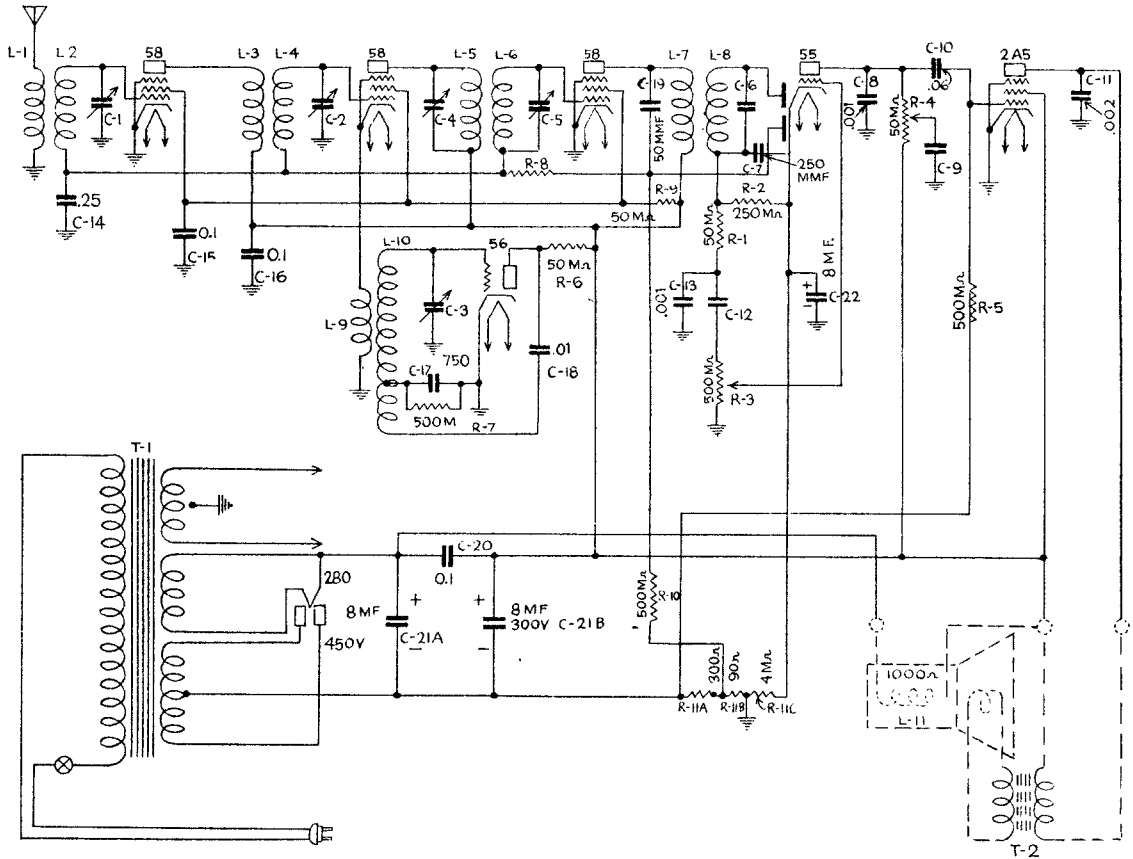
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

MONTGOMERY WARD & CO.



MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

MONTGOMERY WARD & Co.



Circuit

No. 62-99 AND 62-97

The complete circuit consists of a type 58 tube functioning as an R. F. Amplifier, followed by another type 58 tube operating as a 1st detector, or mixer tube. A type 56 tube is used as an oscillator.

The I. F. amplifier utilizes a type 58 tube and is followed by the type 55 tube described above, functioning as a second detector, A. V. C. and first audio amplifier. A type 2A5 is used in the power audio stage.

The 58 R. F. Amplifier Tube is inductively coupled to the antenna by means of the antenna transformer, L-1, L-2, the secondary of which is tuned by one section of the three gang Tuning Condenser.

The second R. F. or first detector transformer provides inductive coupling between the plate circuit of the 58 R. F. Tube and grid circuit of the 58 1st Detector Tube. The secondary of this transformer is tuned by the second section of the three gang Tuning Condenser.

The stage of R. F. amplification consisting of the 58 R. F. Tube, together with its associated R. F. Transformers serves the double purpose of increasing the sensitivity and selectivity of the receiver as well as practically eliminating image or double frequency response.

Grid bias for the 58 R. F. Tube is variable and is controlled by the A. V. C. diode in accordance with the strength of the incoming signal.

A type 58 Tube is used as a first detector or mixer which is of the bias type. The grid bias of this tube is also controlled by the A. V. C.

The oscillator is of the tuned grid type and is tuned by the third section of the three gang Tuning Condenser.

The oscillator frequency is exactly 262 K. C. above the frequency of the received signal. To provide that the oscillator shall track accurately it is provided with a 675 Mmf. Series Padder Condenser, C-17, and also a shunt trimmer condenser which allows accurate alignment at high frequencies.

Voltages at Sockets

Line Voltage 115—Volume Control at Maximum

Type of Tube	Position of Tube	Function	"A" Volts	"B" Volts	Control Grid "C" Volts	Screen Grid Volts	Screen Current MA	Plate Current MA	Cathode Volts
56	1	Osc.	2.3	110	15-30 ⁽¹⁾	3-3.4 ⁽¹⁾	0
58	2	R. F.	2.3	260	2.0 ⁽²⁾	90 ⁽²⁾	1.2	4.8	0
58	3	1st Det.	2.3	260	2.0 ⁽²⁾	90 ⁽²⁾	1.3	5.4	0
58	4	I. F.	2.3	260	2.0 ⁽²⁾	90 ⁽²⁾	1.2	4.6	0
55	5	2nd Det. AVC-1st Audio	2.3	Diode 1-0 Triode 135	2.0 ⁽³⁾	4.6	12
2A5	6	Power	2.3	255	3.0 ⁽⁴⁾	260	...	...	0
80	7	Rectifier	4.8	...	...	...	...	26 Per Plate	...

(1)Varies with frequency approximately as shown.

(2)Voltage as read with 60,000 ohm meter—across 90 ohm section of R-11—50 volts.

(3)Voltage as read with 600,000 ohm meter.

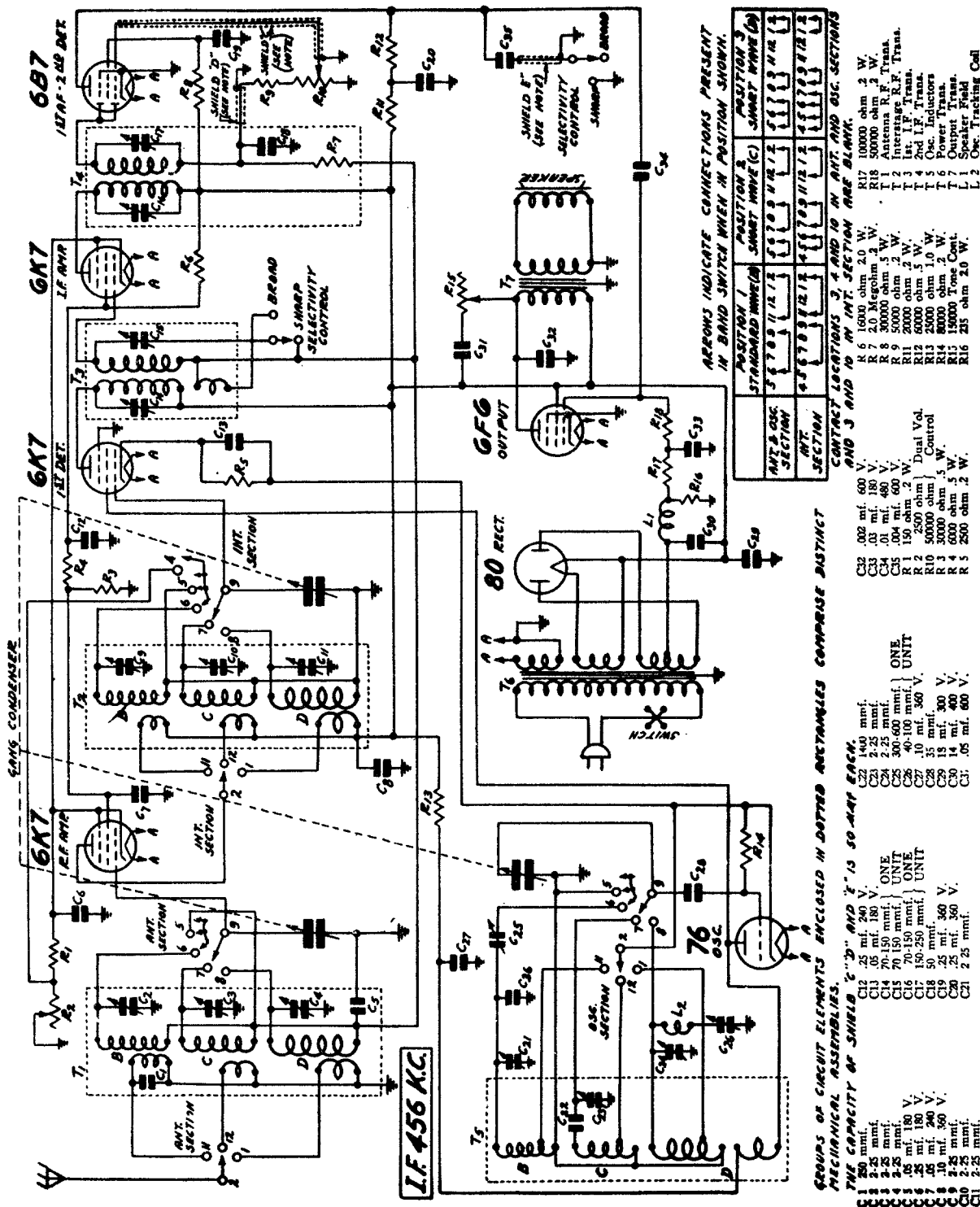
(4)Not actual voltage due to resistance in circuit—tone voltage—17 volts.

(5)Voltage as read with 60,000 ohm meter—across 4000 ohm section of R-11—12 volts.

(6)Voltage as read with 60,000 ohm meter—across 300 and 90 ohm section of R-11—22 volts.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

Montgomery Ward Models 62-185, 62-187, 62-190, 62-196



MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

Montgomery Ward Radio Model 62-233

DESCRIPTION

Tubes

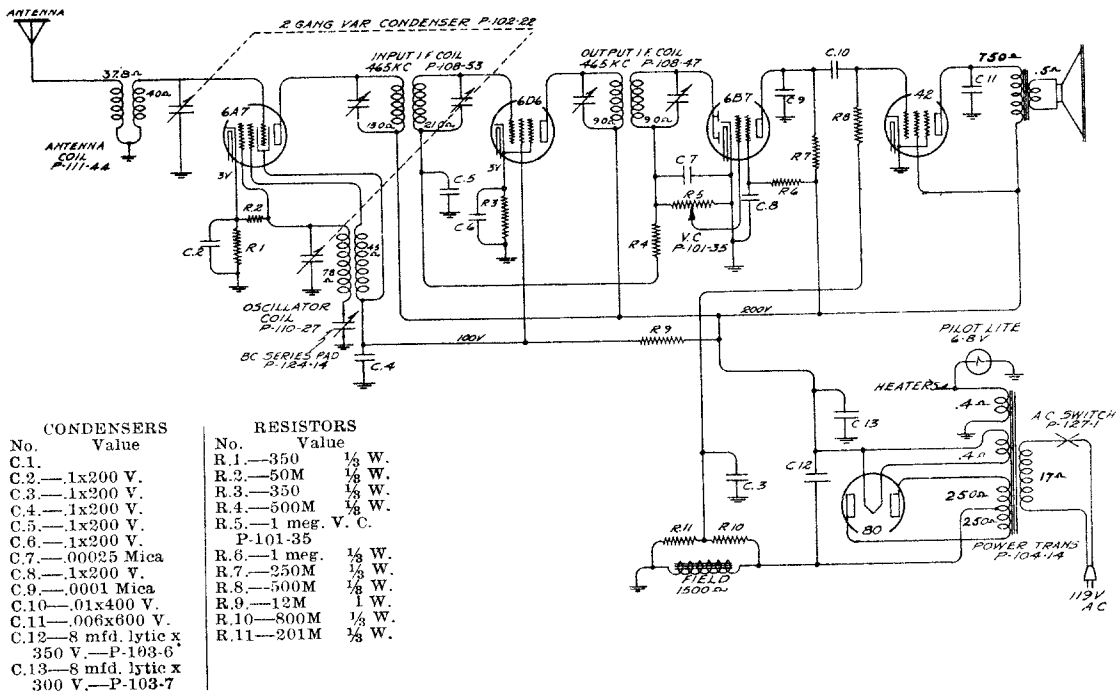
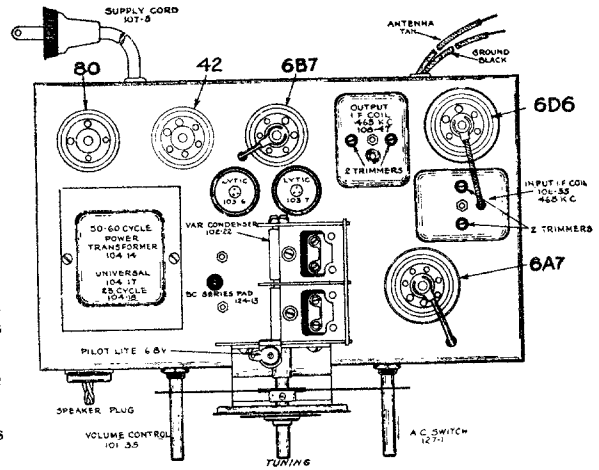
The Tube complement of this chassis is as follows:

- 1 Type 6A7—pentagrid electron coupled oscillator and first detector.
- 1 Type 6D6—remote cut-off pentode as I.F. amplifier.
- 1 Type 6B7—duplex diode pentode as diode detector, A.V.C. and A.F.
- 1 Type 42—pentode output tube.
- 1 Type 80—high vacuum rectifier.

Voltages taken from different points of circuit to chassis are measured with volume control full on, all tubes in their sockets and speaker connected, with a volt meter having a resistance of 1000 ohms per volt. These voltages are clearly indicated on the circuit diagram.

All voltages are measured with 119 volts on the primary of the power transformer.

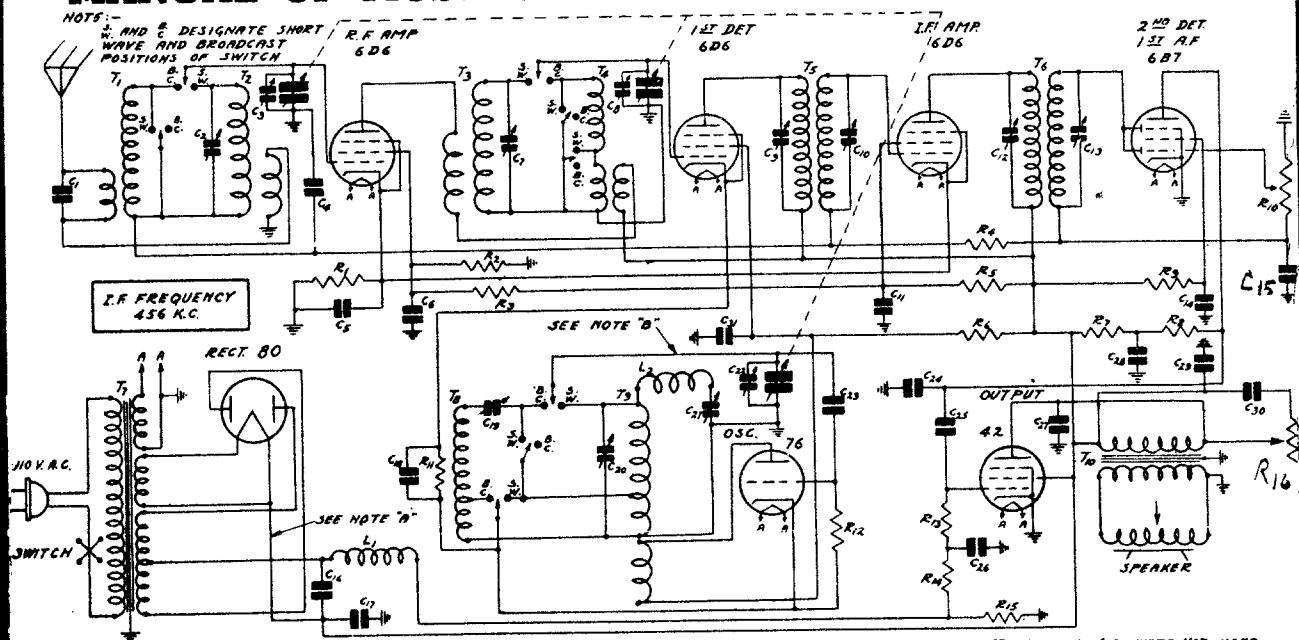
Resistance of coils and transformer windings are indicated in ohms on schematic circuit diagram.



Service Notes

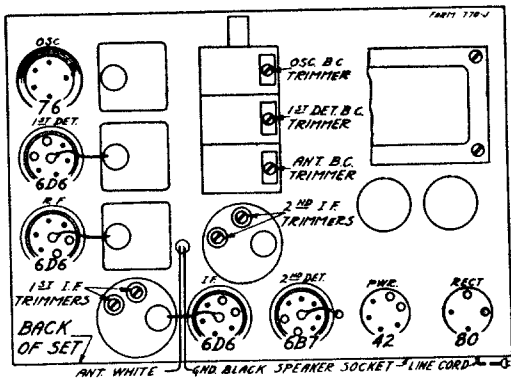
To check for open by-pass condensers, shunt each condenser with another of similar capacity and of the same voltage rating, which is known to be good, until the defective unit is located. Open by-pass condensers frequently cause oscillation and distorted tone. Defective and shorted electrolytic filter condensers cause excessive hum, motor-boating, low volume and a reduction in all D.C. voltages. Open or shorted electrolytic and by-pass condensers (across bias resistor of type 42 tube) will cause low volume and distorted tone.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



NOTE "A"-FILTER CHOKES USED IN SERIES AT THIS POINT IN 151 MODELS. NOTE "B"-SERIES PADDER USED IN SERIES AT THIS POINT IN 151 MODELS. L₂ & C₂₁ WERE NOT USED.

Montgomery Ward Models
 62-123, 62-131, 62-133,
 62-142, 62-144, 62-152,



Code	Capacity	Volts	Type
C1	.00025 mfd.		Moulded
C2	3-40 mmfd.		Ant. S. W. Trimmer
C3	(See 3 Gang Cond.)		Gang Trimmer
C4	.05 mfd.	200V.	Tubular
C5	.25 mfd.	200V.	Tubular
C6	.05 mfd.	400V.	Tubular
C7	3-40 mmfd.		1st Det. S. W. Trim
C8	(See 3 Gang Cond.)		Gang Trimmer
{ C9	{ 90±30 mmfd. }		{ Dual Trimmer
{ C10	{ 90±30 mmfd. }		{ Part of I. F. Assem.
C11	.25 mfd.	300V.	Tubular
{ C12	{ 90±30 mmfd. }		{ Dual Trimmer
{ C13	{ 90±30 mmfd. }		{ Part of I. F. Assem.
C14	.25 mfd.	400V.	Tubular
C15	.0001 mfd.		Moulded
C16	18.0 mfd.	300V.	Electrolytic Wet ..
C17	8.0 mfd.	450V.	Electrolytic Wet ..
C18	8.0 mfd.	500V.	Electrolytic Wet ..
C19	14.0 mfd.	400V.	Electrolytic Wet ..
C20	.05 mfd.	200V.	Tubular
C21	300-500 mmfd.		600 K. C. Trimmer .
C22	3-40 mmfd.		Osc. S. W. Trimm
C23	70±30 mmfd.		6000 K. C. Trimmer
C24	(See 3 Gang Cond.)		Gang Trimmer
C25	.00035 mfd.		Moulded
C26	.002 mfd.	600V.	Tubular
C27	.01 mfd.	400V.	Tubular
C28	.03 mfd.	400V.	Tubular
C29	.002 mfd.	500V.	Tubular
C30	.25 mfd.	400V.	Tubular
C31	.1 mfd.	400V.	Tubular
C32	.05 mfd.	400V.	Tubular
C33	.1 mfd.	400V.	Tubular

Voltages at Sockets LINE VOLTAGE — 115 ANTENNA SHORTED TO GROUND

Type of Tube	Function	Across Fila. or Heater	Plate to Cath.	Screen to Cath.	Control Grid to Cath.	Normal Plate M. A.
6D6	R. F.	6.3	246	100	3.6(1)	5.3
6D6	1st Det.	6.6	237	97	8.0(2)	3.4
76	Osc.	6.3	115		0	4.8
6D6	I. F.	6.3	246	130	3.6(1)	8.3
6B7	2nd Det.	6.3	50(3)	40(3)	0	2.7
42	Power	6.3	230	245	17.0(4)	33.0
80	Rectifier	5.0				37.0 per plate

Code	Resistance	Watts	Type
R1	200 ohm	.2	Flex. Wire Wound ..
R2	30,000 ohm	.5	Carbon
R3	6,000 ohm	.5	Carbon
R4	2.0 megohm	.2	Carbon
{ R5	{ 16,000 ohm	{ 1.5	{ Armored
{ R6	{ 25,000 ohm	{ 1.0	{ wire wound
R7	20,000 ohm	.2	Carbon
R8	60,000 ohm	.5	Carbon
R9	250,000 ohm	.5	Carbon
R10	500,000 ohm		Vol. Control & Switch
R11	2,500 ohm	.2	Carbon
R12	100,000 ohm	.2	Carbon
R13	500,000 ohm	.2	Carbon
R14	100,000 ohm	.2	Carbon
R15	235 ohm	2.0	Flex. Wire Wound ...
R16	150,000 ohm		Tone Control

- (1) Cathode to ground
- (2) Subject to variation
- (3) Read with 1,000,000 ohm meter
- (4) As read across R15

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

WARDS AIRLINE RADIO

MODELS 62-425 and 62-265

The tube complement of this chassis is as follows:

- 1 Type 6A7—pentagrid oscillator and first detector.
- 1 Type 78 —remote cut-off pentode as I.F. amplifier.
- 1 Type 75 —duplex diode triode as diode detector, A.V.C. and A.F.
- 1 Type 41—pentode output tube.
- 1 Type 5Z4 or 5Y3—high vacuum rectifier.

ALIGNING INSTRUCTIONS:

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 voltages, defective tubes, condensers and resistors. In order to properly align this chassis, an oscillator (generator) is absolutely necessary. No aligning adjustments should be attempted with the chassis in the cabinet. Remove the knobs and the two bolts which are used to fasten the chassis.

All adjustments should be made with a non-metallic screw driver.

RESONANCE INDICATOR:

Use as a resonance indicator an output meter connected across the primary of the speaker input transformer, or by

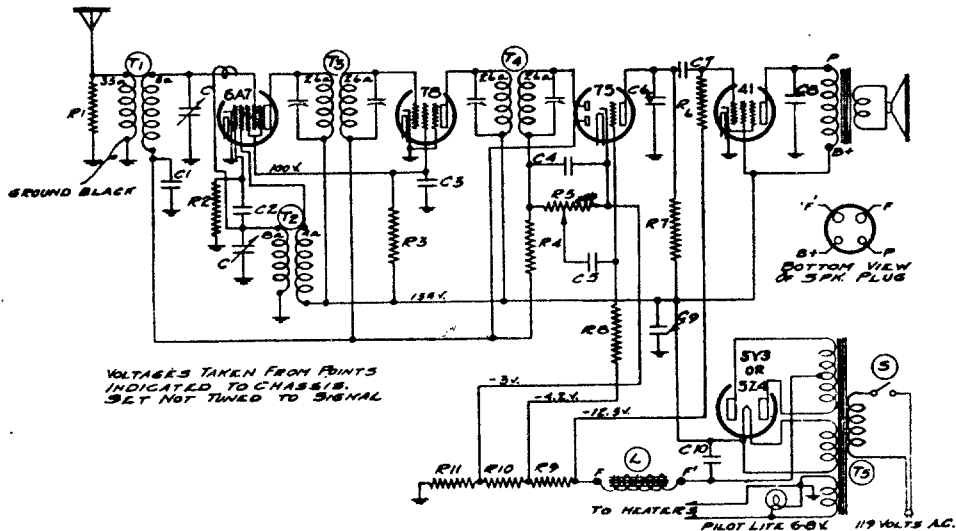
means of an adapter between the plate and screen terminals of the type 41 output tube. Use only enough signal to get a readily readable output. A low range output meter or the low scale of a multi-range voltmeter should be used.

ALIGNING I. F. TRANSFORMERS: (465 K. C.)

Connect external oscillator which has been adjusted to 465 kilocycles in series with .1 mfd. condenser, to the control grid cap of the type 6A7 tube. Ground the chassis to the oscillator. Adjust output I.F. transformer (No. 108-83) and input I.F. transformer (No. 108-82) to resonance. See label on bottom of cabinet for location of these transformers.

R. F. ALIGNMENT: (535-1720 K. C.)

1. With gang condenser in its minimum capacity position, plates entirely out of mesh, connect an external oscillator in series with a 200 mmf. condenser to tan antenna and black ground leads and make the following adjustments:
 - (a) With external oscillator set at 1720 kilocycles, adjust oscillator trimmer (rear of gang condenser).
 - (b) Re-set external oscillator to 1400 kilocycles, rotate condenser, pick up oscillator signal and adjust antenna trimmer to resonance (front section of gang condenser).
 - (c) Check sensitivity at 600 and 1000 kilocycles.



CONDENSERS

Part No.	Schematic Reference	Description	No. Used In Set
BE 100-11	C-5:C-7	.01 x 400 Volt Tubular	2
BE 100-19	C-8	.006 x 600 Volt Tubular	1
BE 100-1	C-3	.1 x 400 Volt Tubular	1
BE 100-22	C-1	.05 x 200 Volt Tubular	1
BE 119-24	C-9:C-10	Dual 5 mfd. x 200 Volt Electrolytic	1
BE 129-5	C-6	.0001 Mica—Type MT—20%	1
BE 129-12	C-2:C-4	.00025 Mica—Type MT—20%	2

RESISTORS

Part No.	Schematic Reference	Description	No. Used In Set
BE 106-29	R-9:R-10	(R9, 200 ohm); (R10, 33 ohm); (R11, 100 ohm) Metal clad resistor	1
BE 130-17	R-1	10M Ohm-1/3 Watt-20% -20 V. Carbon	1
BE 130-109	R-3	750M Ohm-1/3 Watt-20%-10 V. Carbon	1
BE 130-117	R-2	50M Ohm-1/3 Watt-20%-50 V. Carbon	1
BE 130-118	R-6	600M Ohm-1/3 Watt-20%-100 V. Carbon	1
BE 130-121	R-4:R-8	3.2 Meg Ohm-1/3 Watt-30%-100 V. Carbon	2
BE 130-122	R-7	210M Ohm-1/10 Watt-30%-20%-50 V. Carbon	1

COILS

Part No.	Schematic Reference	Description	No. Used In Set
BE 108-82	T3	Input I.F. Coil Assem. Comp. with Can.	1
BE-108-83	T4	Output I.F. Coi Assem. Comp. with Can.	1
BE 110-46	T2	Oscillator Coil Assembly Complete	1
BE 111-58	T1	Antenna Coil Assembly Complete	1

SOCKETS

Part No.	Description	No. Used In Set
BE 121-6	Six Prong Socket—Marked "41"	1
BE 121-6	Six Prong Socket—Marked "75"	1
BE 121-6	Six Prong Socket—Marked "78"	1
BE 121-7	Seven Prong Socket—Marked "6A7"	1
BE-121-9	Four Prong Socket—Marked "SPKR"	1
BE 121-16	Five Prong Socket—Marked "5Z4"(Octal)	1

MISCELLANEOUS

Part No.	Schematic Reference	Description	No. Used In Set
BE 101-54	R-5	Volume Control and Switch (1 meg ohm)	1
BE 102-33	C	Two Gang Variable Condenser	1
BE 107-39		Line Cord & Plug	1
BE 128-8		Ivory Bakelite Knob (Model 62-265)	2
BE 131-2		Brown Bakelite Knob	1
BE 131-8		Spring for above knob	2

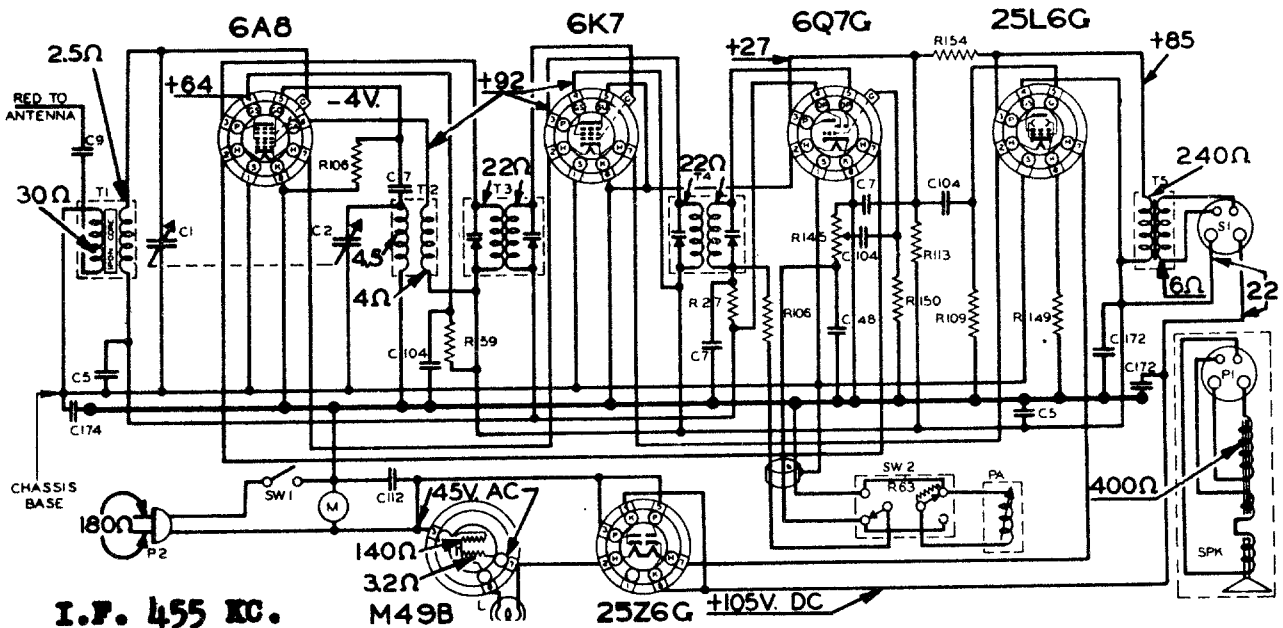
DIAL PARTS LIST

Part No.	Description	No. Used In Set
BE 107-28	Pilot Light Socket	1
BE 112-15	Dial Crystal only—less escutcheon	1
BE 112-160	Dial Pointer Complete with screw	1
BE 112-164	Brown Bakelite Escutcheon complete with crystal	1
BE 112-226	Ivory Bakelite Escutcheon complete with glass (Model 62-265)	1
BE 112-167A	Dial Scale	1
BE 116-13	6-8 Volt, T-51 Pilot Light Bulb	1
BE 117-59	Pointer Bushing Stud	1
BE 117-60	Pointer Bushing Assembly	1
BE 117-61	Drive Pulley	1
BE 117-68	Dial Bracket	1
BE 120-7A	Take-up Spring	1
BE 131-52	Drive Belt	1
BE 134-9	Horse Shoe Washer	1

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

ARVIN RADIO CHASSIS RE29 AND RE35

MODEL NUMBERS 58, 58A AND 88



I.F. 455 KC.

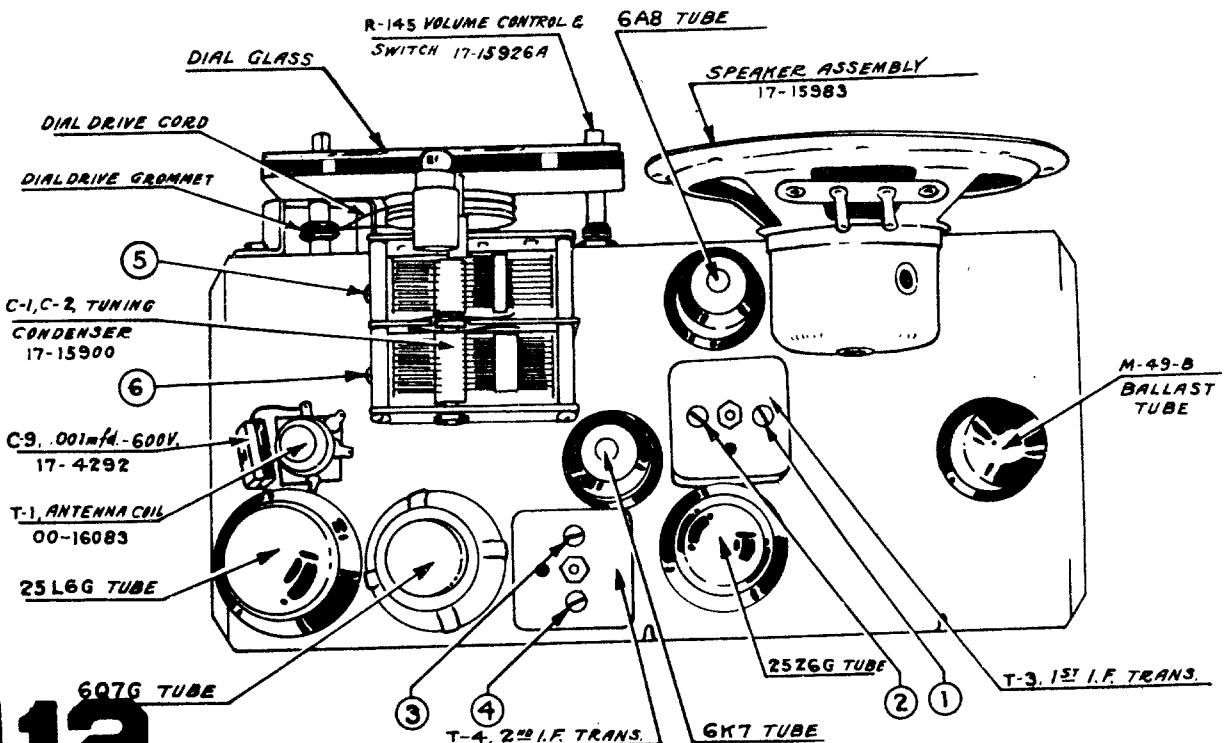
RESISTORS		
Ref. No.	Part No.	Description
R99	17-4191	15,000 ohms 1/2 watt
R27	17-4788	2,000,000 ohms 1/2 watt
R106	17-14171	50,000 ohms 1/2 watt
R109	17-14174	500,000 ohms 1/2 watt
R-113	17-14178	250,000 ohms 1/2 watt
R149	17-14221	150 ohms 1/2 watt
R150	17-14242	5,000,000 ohms 1/2 watt
R154	17-14244	1,500,000 ohms 1/2 watt
CONDENSERS		
Ref. No.	Part No.	Description
C7	17-2064	.0001 mfd. 600 volt
C104	17-4206	.01 mfd. 200 volt
C48	17-4207	.00025 mfd. 600 volt
C9	17-4292	.001 mfd. 600 volt
C5	17-14015	.05 mfd. 200 volt
C112	17-14139	.05 mfd. 400 volt
C172 A & B	17-14239	20-20 mfd. 150 volt
C174	17-14248	.2 mfd. 400 volt
C1-C2	17-19900	Tuning Condenser

COILS AND TRANSFORMERS		
Part No.	Description	
T2	00-15979	Oscillator Coil
T-5	00-15980	Output Transformer
T3	00-16060	1st I.F. Transformer
T4	00-16061	2nd I.F. Transformer
T1	00-16083	Antenna Coil

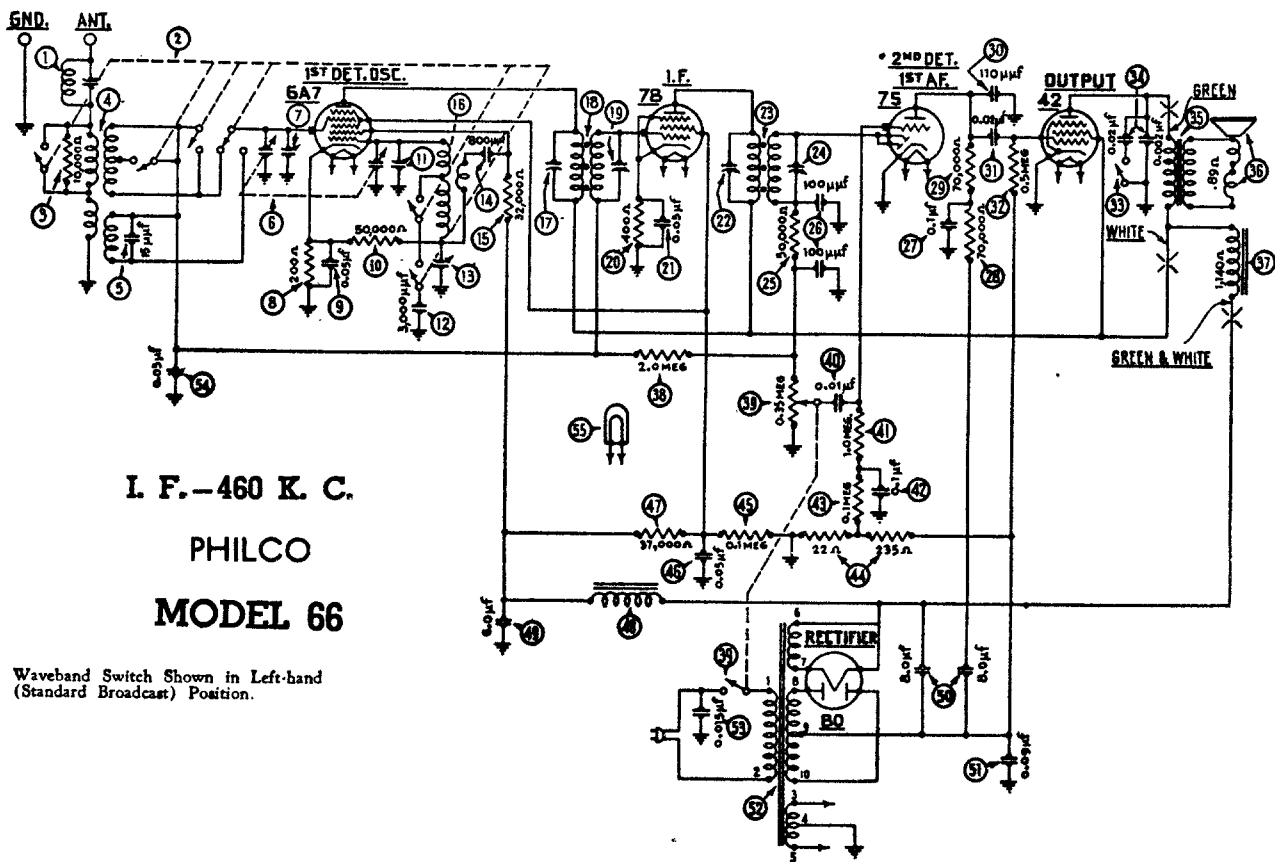
17-15791E	Line cord and plug
29-15905	Cabinet (58A- Ivory)
32-15907	Cabinet bottom cover
29-15909	Cabinet (58-Black)
32-15915	Tuning shaft bracket
29-15916	Cabinet back cover
17-15926A	Volume control switch
29-15929	Knob (wood-walnut finish)
29-15937	Knob (walnut bakelite)
23-15958	Tuning Shaft
17-15973	Dial light socket and clip
81-15974	Dial glass (black background)
17-15983	Speaker (5" diameter)
17-15989	Speaker (6" diameter)
81-16015	Dial glass (brown background)
27-16020	Cabinet (Model 88)
17-16021	Phono pickup and arm
17-16022	Phono turntable and motor
29-16024	Knob (Ivory bakelite)
17-16025	Radio-Phono switch
24-16068	Knob (Radio-Phono switch)

SPEAKERS, DIAL PARTS, CAPSULES & MISCELLANEOUS

Part No.	Description
10-5181	Chassis Mounting Screw per dos.
28-5188	Dial drive pulley (rubber)
83-2357	Grille cloth (Ivory rayon)
29-13470	Tuning shaft retaining washer
29-13483	Dial drive cord (16" long)
34-13360	Dial drive takeup spring
17-14977	Needle cup
17-14998	Needle cup cover
19-15476	Tuning condenser drive pulley



MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



I. F.—460 K. C. PHILCO MODEL 66

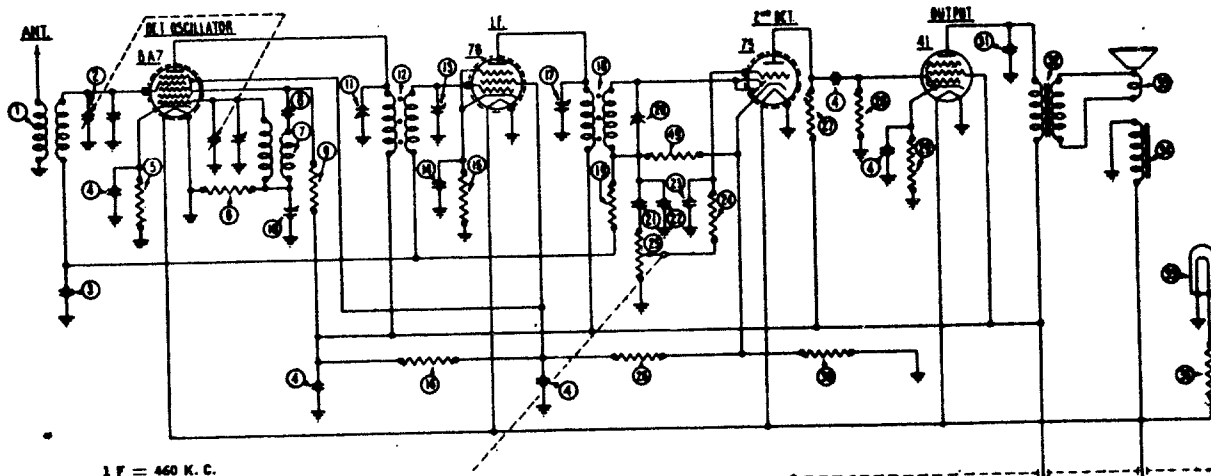
Waveband Switch Shown in Left-hand
(Standard Broadcast) Position.

No. on Figs.	Description	Part No.
1	Wave Trap.....	38-5199
2	Wave-band Switch.....	42-1066
3	Resistor (10,000 ohms) (Brown-Black-Orange).....	33-1000
4	Antenna Transformer.....	32-1412
5	Condenser (.000015 Mfd.).....	30-1030
6	Tuning Condenser Assembly.....	31-1231
7	Compensating Condenser (ANT.).....	Part of 6
8	Resistor (200 ohms Flexible) (Red-Black-Brown).....	7217
9	Condenser (.05 Mfd. Tubular).....	30-4020
10	Resistor (50,000 ohms) (Green-Green-Orange).....	6098
11	Compensating Condenser (OSC. HF).....	Part of 6
12	Condenser (.003 Mfd. Mica).....	30-1022
13	Compensating Condenser (Osc. I. F.).....	04000-S
14	Condenser (.0008 Mfd. Mica).....	5978
15	Resistor (32,000 ohms) (Orange-Red-Orange).....	5279
16	Oscillator Transformer.....	32-1413
17	Compensating Condenser (1st I. F. Pri.).....	04000M
18	1st I. F. Transformer.....	32-1414
19	Compensating Condenser (1st I. F. Secondary).....	04000M
20	Resistor (400 ohms Flexible).....	33-3016
21	Condenser (.05 Mfd. Tubular).....	30-4020
22	Compensating Condenser (2d I. F. Primary).....	04000M
23	2d I. F. Transformer.....	32-1415
24	Compensating Condenser (2d I. F. Secondary).....	04000J
25	Resistor (50,000 ohms) (Green-Brown-Orange).....	6098
26	Condenser (.0001 Mfd. Twin Bakelite Block).....	8035-B
27	Condenser (.1 Mfd. Tubular).....	30-4170
28	Resistor (70,000 ohms) (Violet-Black-Orange).....	33-1115
29	Resistor (70,000 ohms) (Violet-Black-Orange).....	33-1115
30	Condenser (.00011 Mfd. Mica).....	30-1006
31	Condenser (.02 Mfd. Tubular).....	30-4113
32	Resistor (500,000 ohms) (Yellow-White-Yellow).....	6097
33	Tone Control.....	30-4192
34	Condensers in Tone Control.....	Inside 33

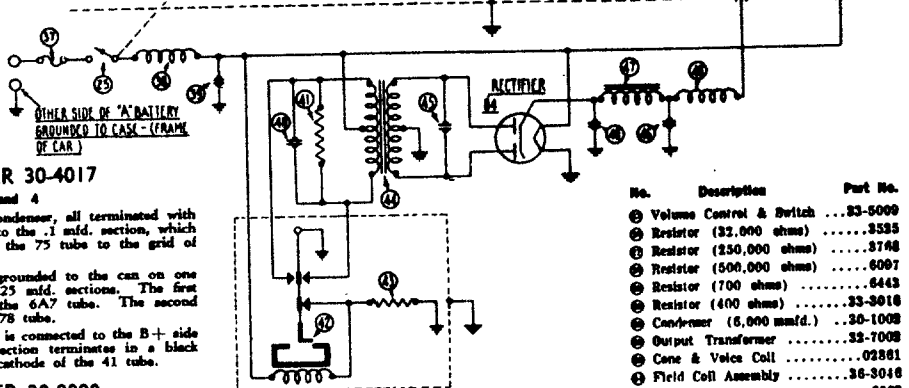
No. on Figs.	Description	Part No.
35	Output Transformer.....	32-7019
36	Voice Coil & Cone Assembly (S-12).....	36-3014
37	Field Coil and Pot. Assembly (S-12).....	36-3341
38	Resistor (2 Megohms) (Red-Black-Green).....	33-1025
39	Volume Control and On-Off Switch.....	33-5006
40	Condenser (.01 Mfd.) (Bakelite Block).....	3903-AB
41	Resistor (1 Megohm) (Brown-Black-Green).....	33-1096
42	Condenser (.1 Mfd.).....	30-4122
43	Resistor (.1 Meg.) (White-White-Orange).....	6099
44	Resistor (B. C. Wire-wound) (22, 235 ohms).....	33-3037
45	Resistor (.1 Meg.) (White-White-Orange).....	6099
46	Condenser (.05 Mfd. Tubular).....	30-4123
47	Resistor (37,000 ohms) (Orange-Violet-Orange).....	33-1098
48	Filter Choke.....	32-7018
49	Condenser (Electrolytic—6 Mfd.).....	30-2021
50	Condenser (Electrolytic—8.5 Mfd.).....	30-2028
51	Condenser (.06 Mfd. Bakelite Block).....	4989-D
52	Power Transformer.....	8046
53	Condenser (.015 Mfd. Bakelite Block).....	3793-W
54	Condenser (.05 Mfd. Tubular).....	30-4020
55	Dial Light.....	6608
56	Four Prong Socket.....	7544
57	Six Prong Socket.....	7547
58	Seven Prong Socket.....	27-6005
59	Tube Shield.....	28-1107
60	Chassis Mounting Screw.....	W-567
61	Chassis Mounting Washer (Metal).....	W-315
62	Chassis Mounting Washer (Rubber).....	5189
63	Knob (Large).....	27-4051
64	Knob (Small).....	27-4052
65	Dial Assembly.....	31-1234
66	Dial Scale.....	27-5057
67	A. C. Cord and Plug Assembly.....	L-943A

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

PHILCO AUTO RADIO MODEL 5



1 F = 460 K. C.



FILTER CONDENSER 30-4017

① on Figures 3 and 4

There are five sections in this filter condenser, all terminated with wire leads. The two green leads connect to the .1 mfd. section, which is used for coupling the plate output of the 75 tube to the grid of the 41 tube.

The remaining four sections are all grounded to the can on one side. The white leads connect to two .25 mfd. sections. The first section is connected to the cathode of the 6A7 tube. The second section is connected to the screen of the 75 tube.

The red lead from the .5 mfd. section is connected to the B+ side of all the plate circuits. A 20 mfd. section terminates in a black lead, which in turn is connected to the cathode of the 41 tube.

FILTER CONDENSER 30-2008

② on Figures 3 and 4

The condenser consists of two sections, a 4 mfd. section and an 8 mfd. section, both of them grounded on one side.

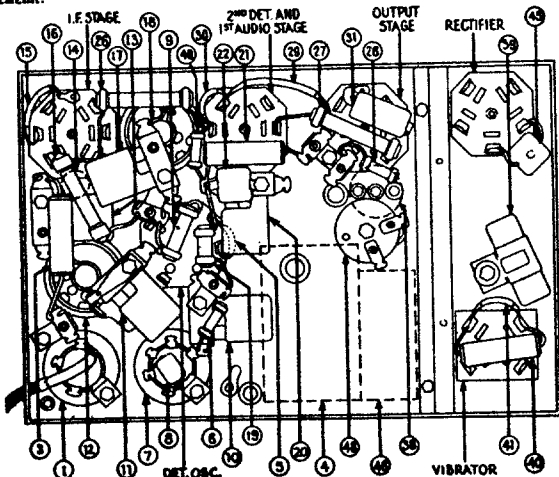
The 4 mfd. section terminates in a red lead, which is connected to the cathode of the 84 tube. The 8 mfd. section terminates in a green lead, which is connected between the two chokes in the rectifier filter circuit.

FIGURE 3

PARTS LIST

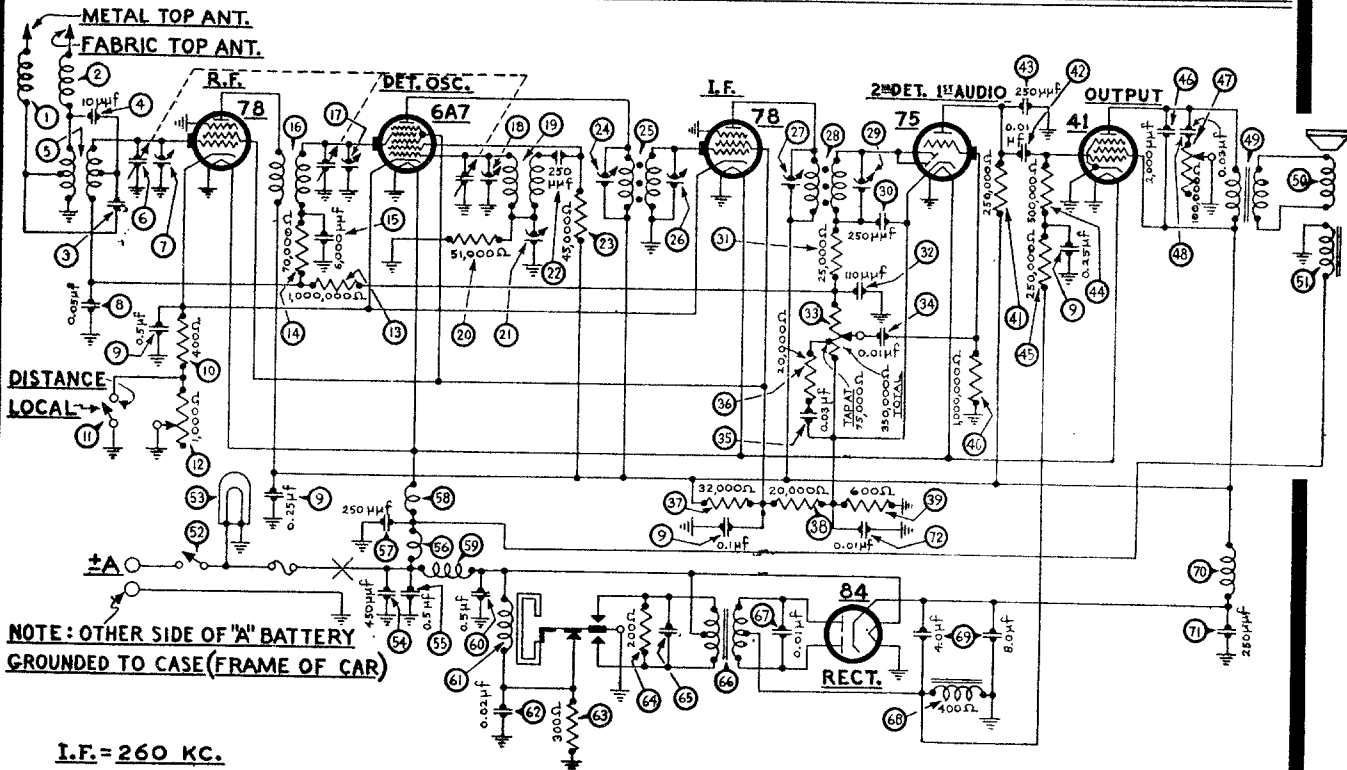
No.	Description	Part No.
①	Antenna Transformer	33-1084
②	Tuning Condenser	31-1019
③	Condenser (.05 mfd.)	30-4020
④	Filter Condenser (.25, .25, .5, 20 mfd.)	30-4017
⑤	Resistor (200 ohms)	7217
⑥	Resistor (13,008 ohms)	3387
⑦	Oscillator Transformer	33-1085
⑧	Condenser (250 mmfd.)	3083
⑨	Resistor (15,000 ohms)	8205
⑩	Padder	040008
⑪	Padder	04000J
⑫	First I. F. Transformer	33-1000
⑬	Padder	04000Y
⑭	Condenser (.5 mfd.)	30-4018
⑮	Resistor (1008 ohms)	33-3017
⑯	Resistor (10,000 ohms)	4412
⑰	Padder	04000D
⑱	Second I. F. Transformer	33-1087
⑲	Resistor (1,000,000 ohms)	4408
⑳	Padder	040003
㉑	Condenser (.05 mfd.)	30-4020
㉒	Condenser (250 mmfd.)	3083
㉓	Condenser (500 mmfd.)	3018
㉔	Resistor (100,000 ohms)	8000

No.	Description	Part No.
㉕	Volume Control & Switch	33-5009
㉖	Resistor (32,000 ohms)	3335
㉗	Resistor (250,000 ohms)	3748
㉘	Resistor (500,000 ohms)	6097
㉙	Resistor (700 ohms)	6443
㉚	Resistor (400 ohms)	33-3016
㉛	Conformer (6,000 mmfd.)	30-1008
㉜	Output Transformer	33-7008
㉝	Cone & Voice Coil	02881
㉞	Field Coil Assembly	36-3048
㉟	Pilot Lamp	8008
㊱	Resistor (7 ohms)	5116
㊲	Fuse (15 amp.)	7237
㊳	R. F. Choke	33-1032
㊴	Condenser (.5 mfd.)	30-4015
㊵	Condenser (.05 mfd.)	30-4020
㊶	Resistor (200 ohms)	7217
㊷	Vibrator	41-3186
㊸	Resistor (200 ohms)	7217
㊹	Transformer	33-7030
㊺	Condenser (6000 mmfd.)	30-1003
㊻	Condenser (4 mfd., 5 mfd.)	30-3008
㊼	Filter Choke	32-7036
㊽	R. F. Choke (high voltage)	32-1078
㊾	Resistor (250,000 ohms)	4410
Control Assembly (direct drive)		
㊿	Tuning Shaft	26-3006
1	Volume Shaft	28-8007
2	Knob	03334
3	Fuse	7237
4	Fuse Insulator	27-7181
5	Antenna Lead	38-5131
6	"A" Lead	38-8296
7	Bracket (control mtg.)	8035
8	Studs (nut mtg.)	28-8036
9	Nuts (nut mtg.)	9735A
10	Strap (control mtg.)	04344



MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

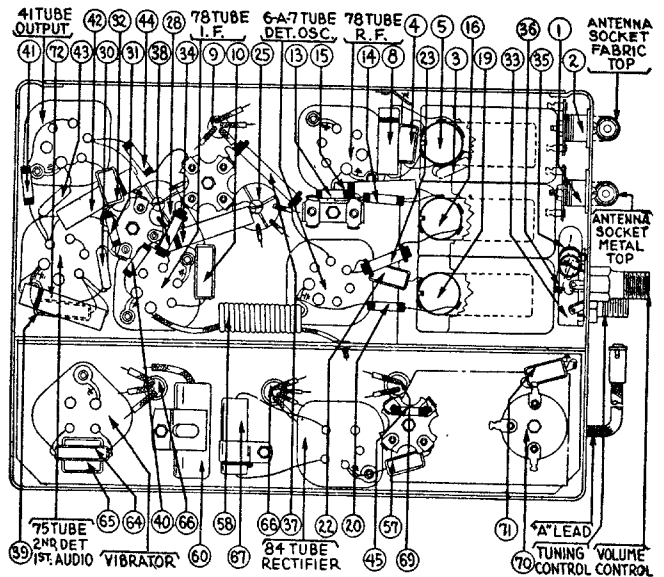
PHILCO AUTO RADIO MODEL T11



I.F. = 260 KC.

PARTS LIST

No.	Description	Part No.	No.	Description	Part No.
1	Antenna Choke	38-7210	27	Tone Control	
2	Antenna Choke	38-7210	28	Condenser (.03 mfd.)	
3	Condenser (70 mmfd.)	30-1068	29	Output Transformer	
4	Condenser (10 mmfd.)	30-1085	30	Cone & Voice Coil	
5	Antenna Transformer	32-1925	31	Field Coil Assembly	
6	Tuning Condenser	31-1674	32	On & Off Switch	
7	First Padder (on Tun. Cond.)		33	Pilot Lamp	
8	Condenser (.05 mfd.)	30-4444	34	Condenser (.5 mfd.)	
9	Condenser		35	"A" Choke	
10	(.1-25-25-.5 mfd.)	30-4374	36	Condenser (250 mmfd.)	
11	Resistor (400 ohms)	33-1211	37	Filament Choke	
12	Sensitivity Control Switch	42-1140	38	Vibrator Choke	
13	Sensitivity Control	33-5129	39	Vibrator	
14	Resistor (1,000,000 ohms)	33-510344	40	Condenser (.02 mfd.)	
15	Resistor (70,000 ohms)	33-370334	41	Resistor (300 ohms)	
16	Condenser (6,000 mmfd.)	30-4445	42	Resistor (200 ohms)	
17	R. F. Transformer	32-1926	43	Condenser (.05 mfd.)	
18	Second Padder (on Tun. Cond.)		44	Power Transformer	
19	Third Padder (on Tun. Cond.)		45	Condenser (.01 mfd.)	
20	Oscillator Transformer	32-1927	46	Filter Choke	
21	Resistor (51,000 ohms)	33-351344	47	Filter Condenser (4-8 mfd.)	
22	Low Frequency Padder	31-6056	48	R. F. Choke	
23	Condenser (250 mmfd.)	30-1032	49	Condenser (250 mmfd.)	
24	Resistor (45,000 ohms)	33-345344	50	Condenser (.01 mfd.)	
25	Padder (Pri. 1st I. F. Trans.)				
26	First I. F. Transformer	32-1260			
27	Padder (Sec. 1st I. F. Trans.)				
28	Padder (Pri. 2nd I. F. Trans.)				
29	Second I. F. Transformer	32-2164			
30	Padder (Sec 2nd I. F. Trans.)				
31	Condenser (250 mmfd.)	30-1032			
32	Resistor (25,000 ohms)	33-325344			
33	Condenser (110 mmfd.)	30-1031			
34	Volume Control				
35	(350,000 ohms)	33-5121			
36	Condenser (.01 mfd.)	30-4124			
37	Condenser (.03 mfd.)	30-4449			
38	Resistor (20,000 ohms)	33-320334			
39	Resistor (32,000 ohms)	33-332434			
40	Resistor (20,000 ohms)	33-320334			
41	Resistor (600 ohms)	33-1212			
42	Resistor (1,000,000 ohms)	33-510344			
43	Resistor (250,000 ohms)	33-424344			
44	Condenser (.01 mfd.)	30-4145			
45	Condenser (250 mmfd.)	30-1032			
46	Resistor (500,000 ohms)	33-449344			
47	Resistor (250,000 ohms)	33-424344			
48	Resistor (2,000 mmfd.)	30-4177			



CHANGES — "Run Numbers" are stamped on the chassis sub-base for identification. These "Run Numbers" are changed consecutively as major changes are made in the Receiver wiring and parts.

RUN No. 3 — A 250 mmfd. condenser has been added to the Receiver. One side is connected between resistors ⑩ and ⑪ and the other side to ground.

RUN No. 4 — The 250 mmfd. condenser added in Run No. 3 has been removed.

RUN No. 5 — The Antenna Transformer ③ is replaced with a new type having the same part number. It can be identified by the red and blue paint marks on the fibre.

RUN No. 6 — Condenser ⑪ has been removed from the cathode side of the "B" choke ⑩ and connected to the plate side of choke ⑩.

RUN No. 6A — A 250 mmfd. condenser has been added to the Receiver. One side is connected between resistors ⑩ and ⑪ and the other side to ground.

RUN No. 8 — Condenser ③ removed (1250 mmfd.). Part No. 30-4020 added. (.05 mfd.)

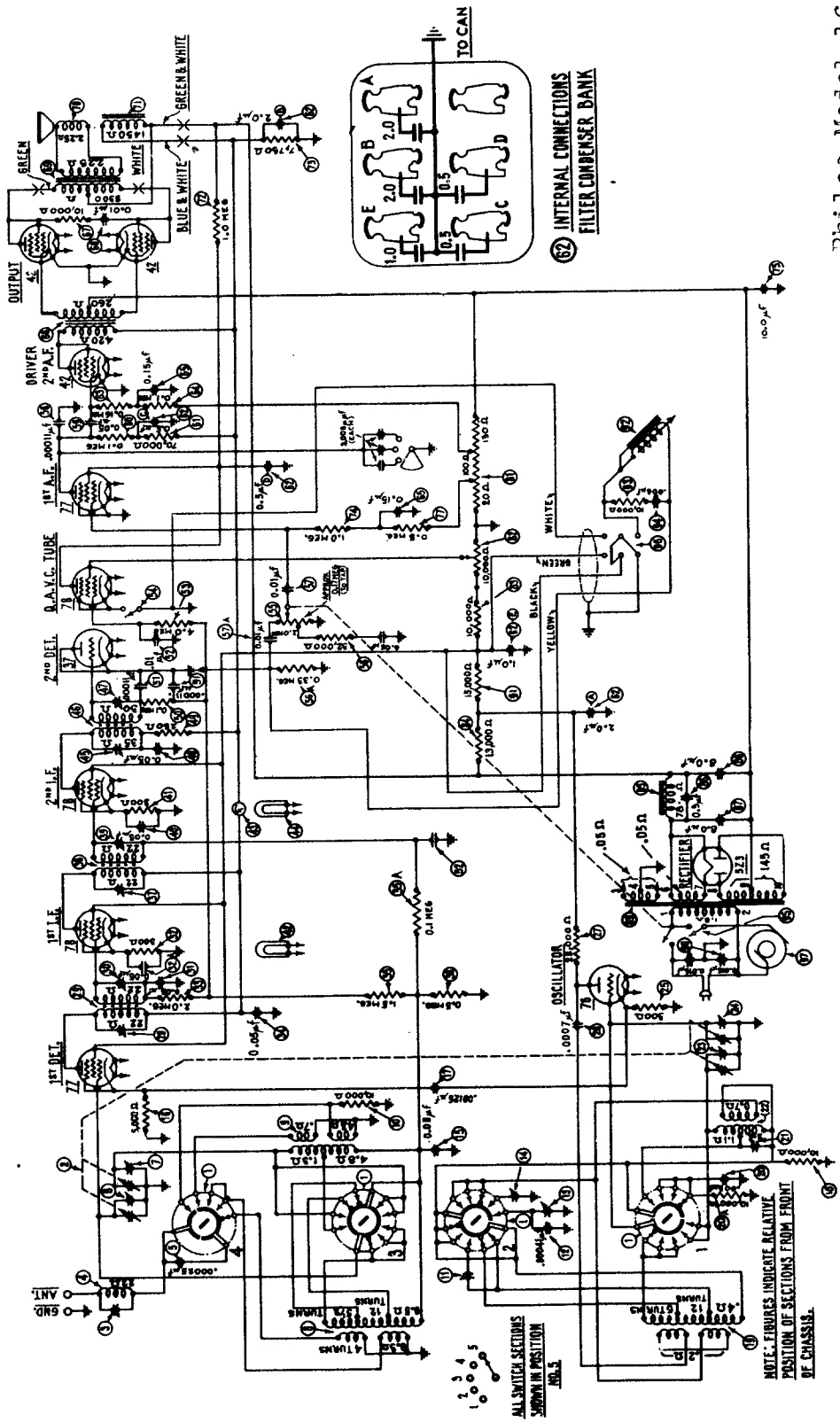
RUN No. 13 — The 250 mmfd. condenser that was added in Run No. 6A has been removed.

RUN No. 14 — Resistor ⑩ removed (400 ohms). Part No. 33-1225 added. (350 ohms.)

No major changes were involved in Run Nos. 2, 7, 9, 10, 11, 12.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

MODEL 16

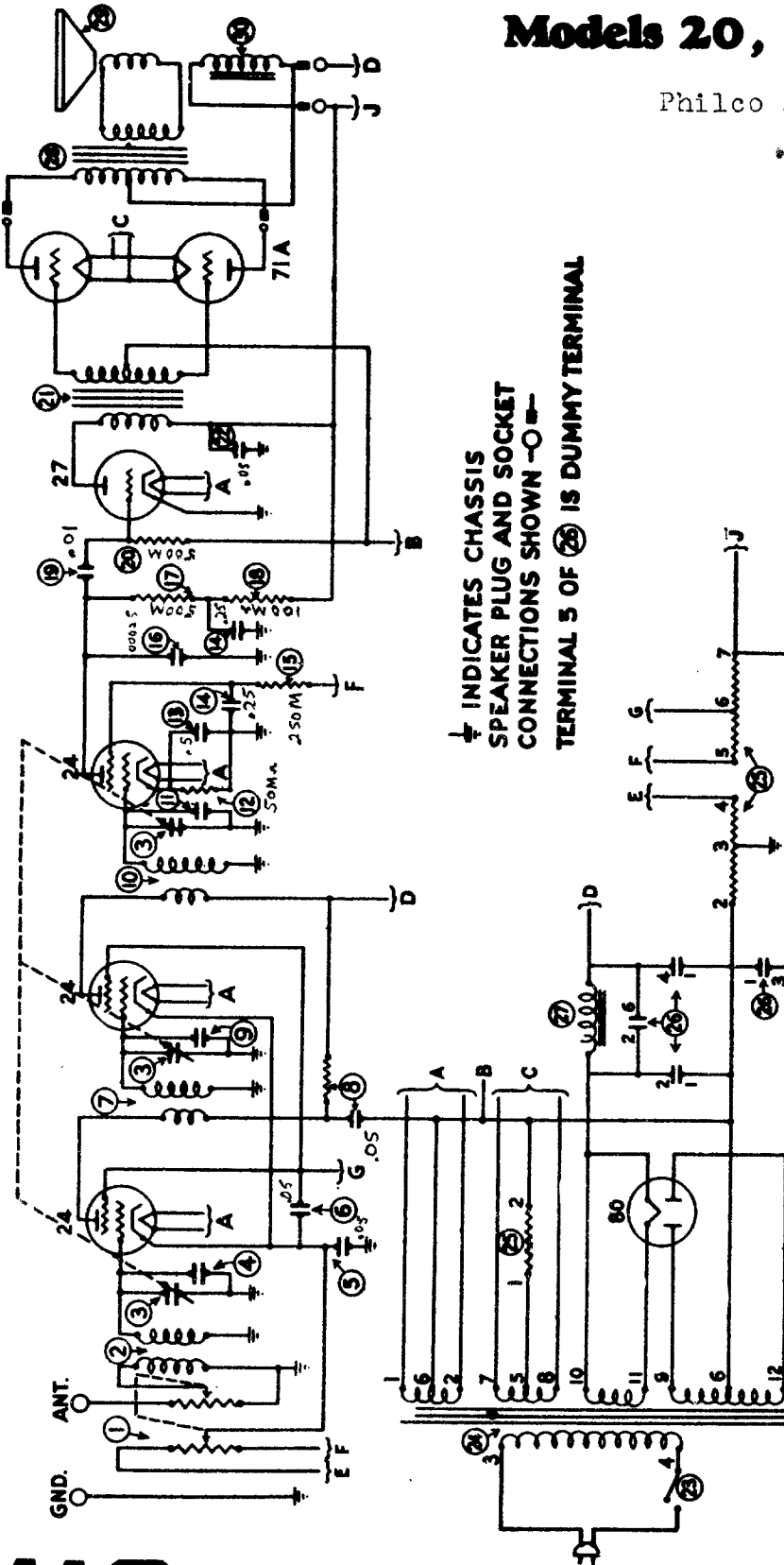


Philco Model 16
I.P. 460 KC.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

Models 20, 20-A and 21

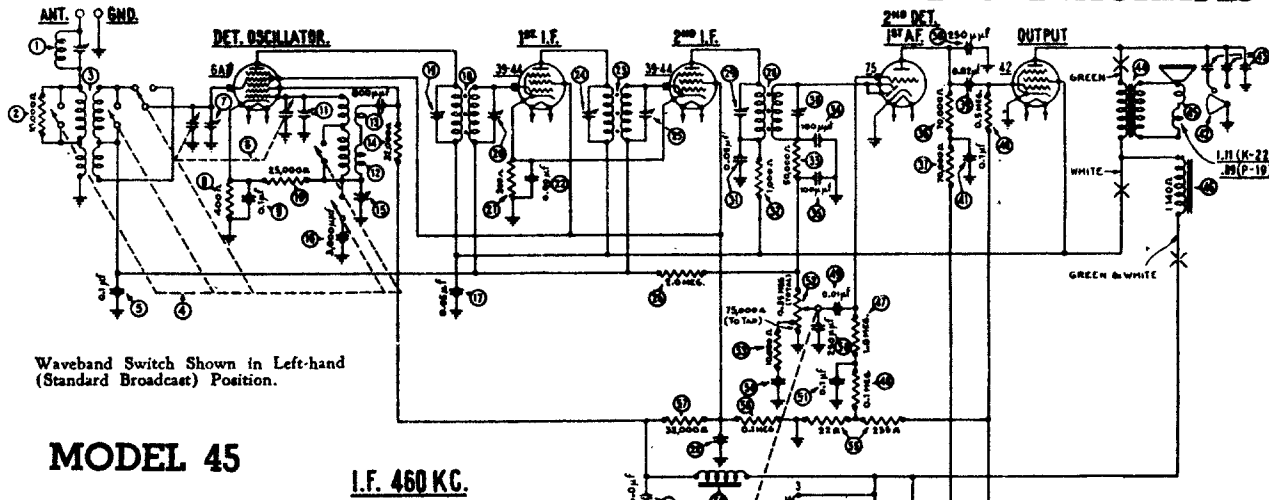
Philco Radio



↓ INDICATES CHASSIS
SPEAKER PLUG AND SOCKET
CONNECTIONS SHOWN -○-
TERMINAL 5 OF (25) IS DUMMY TERMINAL

No.	Description	Part No.
①	Volume Control	4094
②	First R. F. Transformer	3884-N
③	Tuning Condenser	4200-A
④	First Compensating Condenser (Part of Tuning Condenser Assembly)	4237
⑤	By-Pass Condenser (.05)	3583
⑥	By-Pass Condenser (double .25)	3557
⑦	By-Pass Condenser (.0025)	3768
⑧	Resistor (500,000)	3082
⑨	Resistor (100,000)	3799
⑩	Resistor (500,000)	3767
⑪	Resistor (500,000)	3903-F
⑫	Resistor (.01)	3769
⑬	Resistor (500,000)	4232
⑭	Push-pull Input Transformer	3615-L
⑮	By-Pass Condenser (.05)	4095
⑯	On-off Switch	
⑰	Third Compensating Condenser (Part of Tuning Condenser Assembly)	4237
⑱	Resistor (50,000)	3583
⑲	By-Pass Condenser (.5)	3557
⑳	By-Pass Condenser (double .25)	3768
㉑	By-Pass Condenser (.0025)	3082
㉒	Resistor (500,000)	3799
㉓	Resistor (100,000)	3767
㉔	Resistor (500,000)	3903-F
㉕	Resistor (.01)	3769
㉖	Resistor (500,000)	4232
㉗	Push-pull Input Transformer	3615-L
㉘	By-Pass Condenser (.05)	4095
㉙	On-off Switch	
㉚	Third R. F. Transformer	3884-P
㉛	Power Transformer (50-60 cycle)	4234
㉜	Power Transformer (25-60 cycle)	4268
㉝	B. C. Resistor	4230
㉞	Filter Condenser (50-60 cycle)	4235
㉟	Filter Condenser (25-60 cycle)	4289
㊱	Filter Choke	4231
㊲	Push-Pull Output Transformer	2766
㊳	Voice Coil and Cone	2769-B
㊴	Field Coil	2768

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



Waveband Switch Shown in Left-hand (Standard Broadcast) Position.

MODEL 45

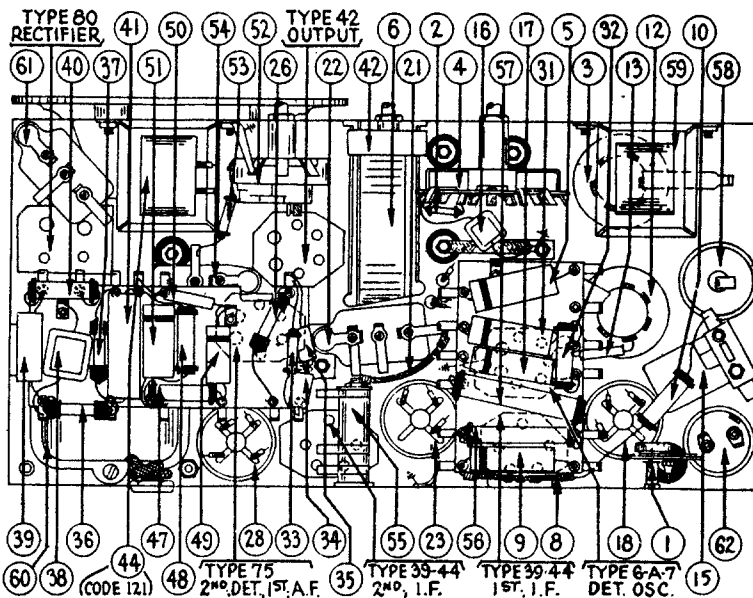
I.F. 460 KC.

No. on Figs. Description Part No.

- ① Wave Trap..... 38-5199
- ② Resistor (10,000 ohms) (Brown-Black-Orange)..... 4412
- ③ Antenna Transformer..... 32-1360
- ④ Wave Band Switch..... 42-1062
- ⑤ Condenser (.1 Mfd.) (Tubular)..... 30-4122
- ⑥ Tuning Condenser Assembly..... 31-1169
- ⑦ Compensating Condenser (Det.)..... Part of ⑥
- ⑧ Resistor (400 ohms—Flexible wire wound)..... 33-3016
- ⑨ Condenser (.1 Mfd.) (Tubular)..... 30-4122
- ⑩ Resistor (25,000 ohms) (Red-Green-Orange)..... 4516
- ⑪ Compensating Condenser (Osc. H. F.)..... Part of ⑩
- ⑫ Oscillator Transformer..... 32-1361
- ⑬ Condenser (.0008 Mfd.—Mica)..... 5878
- ⑭ Resistor (32,000 ohms) (Orange-Red-Orange)..... 3525
- ⑮ Compensating Condenser (Osc. L. F.)..... 04000-S
- ⑯ Condenser (.003 Mfd.—Mica)..... 7301
- ⑰ Condenser (.05 Mfd.—Tubular)..... 30-4123
- ⑱ 1st I. F. Transformer..... 32-1362
- ⑲ Compensating Condenser (1st I. F. Primary)..... Part of ⑱
- ⑳ Compensating Condenser (1st I. F. Secondary)..... Part of ⑱
- ㉑ Resistor (500 ohms—Flexible wire wound)..... 6977
- ㉒ Condenser (.09 Mfd.—Bakelite block)..... 4989-Z
- ㉓ 2d I. F. Transformer..... 32-1363
- ㉔ Compensating Condenser (2d I. F. Primary)..... Part of ㉔
- ㉕ Compensating Condenser (2d I. F. Secondary)..... Part of ㉕
- ㉖ Resistor (2 mega.) (Red-Black-Green)..... 5872
- ㉗ Pilot Lamp..... 6008
- ㉘ 3d I. F. Transformer..... 32-1364
- ㉙ Compensating Condenser—3d I. F. Primary..... Part of ㉙
- ㉚ Compensating Condenser—3d I. F. Secondary..... Part of ㉙
- ㉛ Condenser (.06 Mfd. Tubular)..... 30-4123
- ㉜ Resistor (1,000 ohms) (Brown-Black-Red)..... 5837
- ㉝ Resistor (50,000 ohms) (Green-Brown-Orange)..... 4518
- ㉞ Condenser (.0001 Mfd. Mica)..... 30-1051
- ㉟ Condenser (.0001 Mfd. Mica)..... 30-1051
- ㊱ Resistor (70,000 ohms) (Violet-Black-Orange)..... 5385
- ㊲ Resistor (70,000 ohms) (Violet-Black-Orange)..... 5385
- ㊳ Condenser (.00025 Mfd. Mica)..... 5858
- ㊴ Condenser (.02 Mfd. Tubular)..... 30-4113
- ㊵ Resistor (.5 meg.) (Yellow-White-Yellow)..... 4517
- ㊶ Condenser (.1 Mfd.) (Tubular)..... 30-4170
- ㊷ Tone Control..... 30-4178
- ㊸ Condensers..... Inside 42
- ㊹ Output Transformer (Code 121)..... 32-7041
- ㊺ Output Transformer (Code 122)..... 2580
- ㊻ Voice Coil & Cone Assembly P-19 (Compact)..... 36-3027
- ㊼ Voice Coil & Cone Assembly K-22 (Lowboy)..... 36-3174
- ㊽ Field Coil and Pot Assembly P-19 (Compact)..... 36-3298
- ㊾ Field Coil and Pot Assembly K-22 (Lowboy)..... 02767

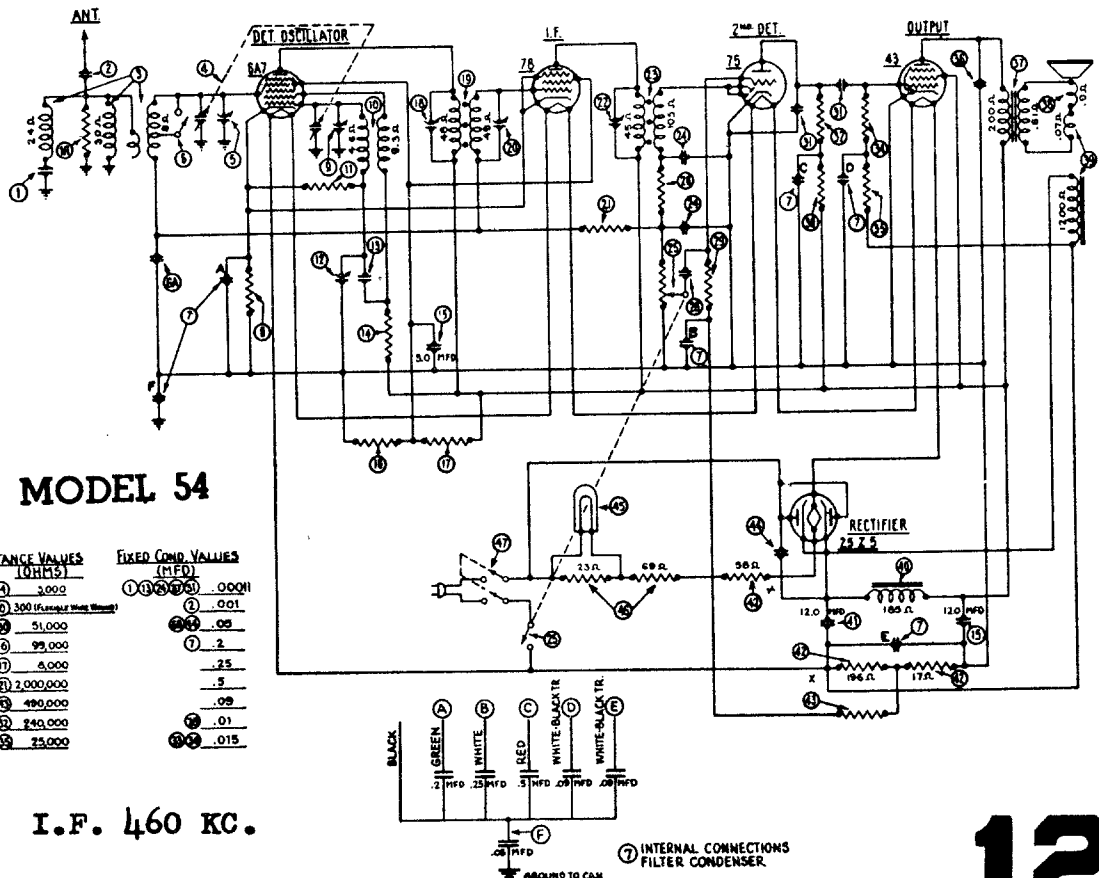
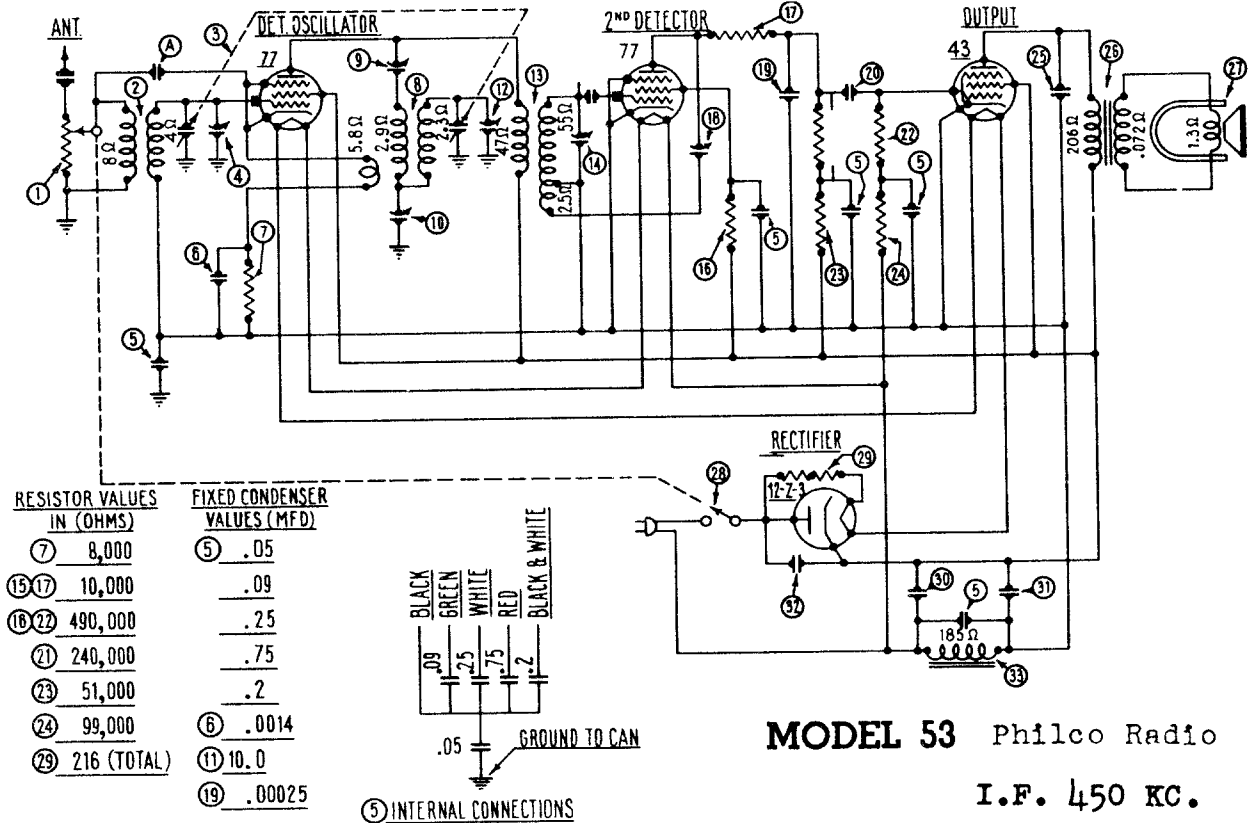
Philco

Note: Resistor ② is 500 ohms in current production.



- ④⑦ Resistor (1 meg.) (Brown-Black-Green)..... 4409
- ④⑧ Resistor (.1 meg.) (White-White-Orange)..... 4411
- ④⑨ Condenser (.01 Mfd. Tubular)..... 30-4124
- ④⑩ Condenser (.00025 Mfd. Mica)..... 5858
- ④⑪ Condenser (.1 Mfd. Tubular)..... 30-4122
- ④⑫ Volume Control and On-Off Switch..... 33-5066
- ④⑬ Resistor 10,000 ohms (Brown-Black-Orange)..... 33-1000
- ④⑭ Condenser (Code 121) (.05 Mfd.) (Bakelite Block)..... 3616-W
- ④⑮ Condenser (Code 122) (.09 Mfd.) (Bakelite Block)..... 4989-AM
- ④⑯ Voltage Divider (BC Resistor 22—235 ohms) (Wire wound)..... 33-3087
- ④⑰ Resistor .1 meg (White-White-Orange)..... 3767
- ④⑱ Resistor 32,000 ohms (Orange-Red-Orange)..... 33-1026
- ④⑲ Condenser (Electrolytic—6 Mfd.)..... 30-2020
- ④⑳ Filter Choke..... 32-7018
- ④㉑ Power Transformer..... 32-7226
- ④㉒ Condenser (.016 Mfd. twin—Bakelite block)..... 3793-E
- ④㉓ Condenser (Electrolytic 8—8 Mfd. 450 Volts)..... 30-3028

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

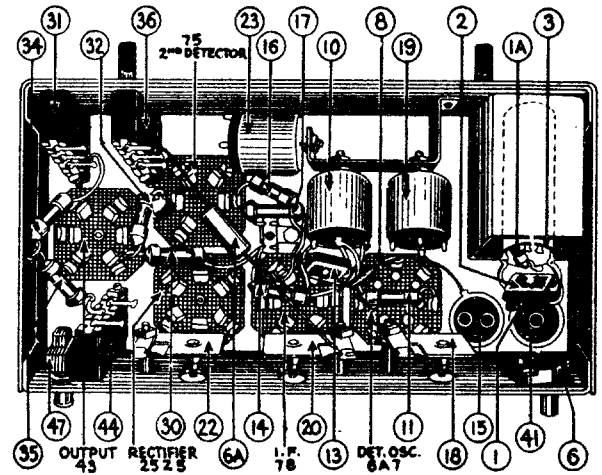
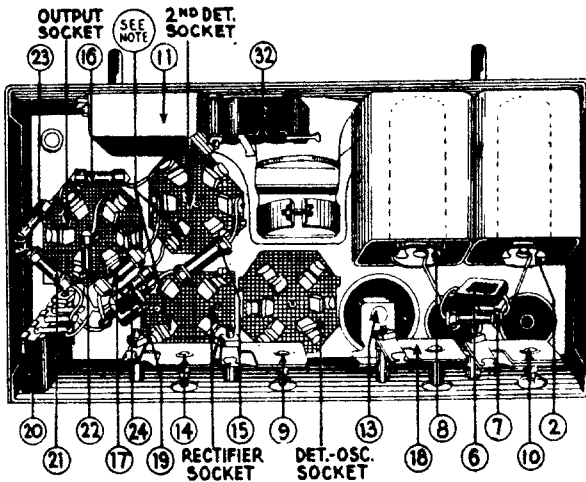


MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

Model 53

Model 54

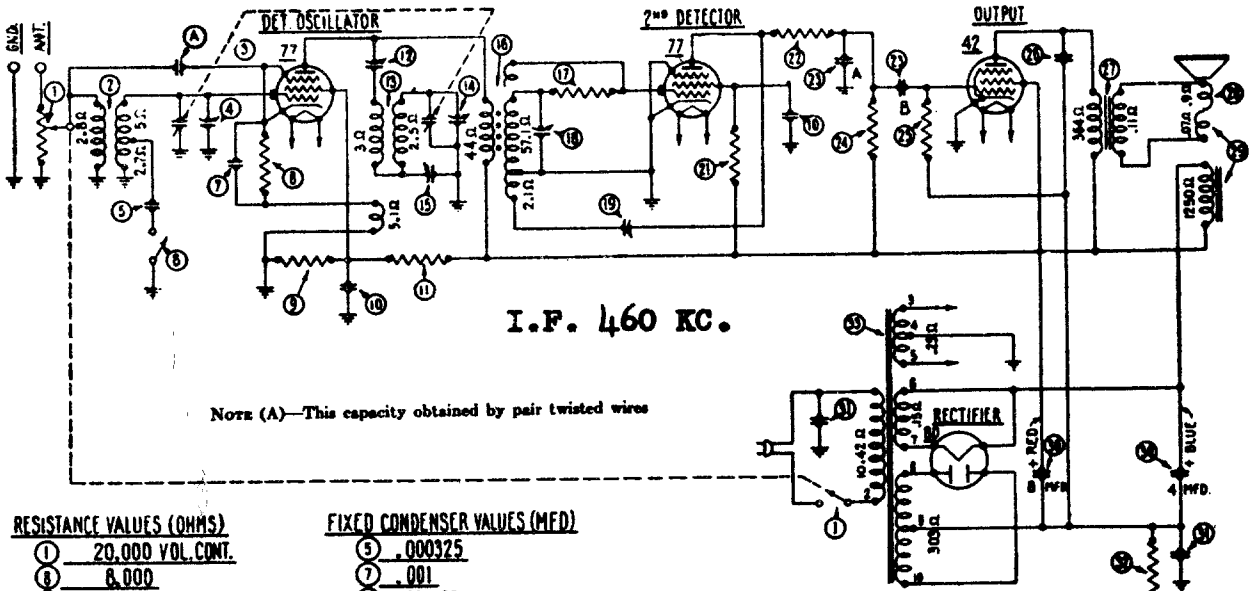
(A. C.—D. C.)



No. on Figs. 2, 3 and 4	Description	Part No.
①	Volume Control	33-5001
②	Antenna Transformer	32-1000
③	Tuning Condenser Assembly	31-1000
④	Compensating Condenser (Part of Tuning Condenser Assembly)	
⑤	Filter Condenser Block (.05-.09-.25-.75-2 Mfd.)	30-4000
⑥	Condenser (.0014 Mfd.)	7007
⑦	Resistor (8,000 ohms) Gray-Black-Red	5838
⑧	Oscillator Transformer	32-1001
⑨	Compensating Condenser (I.F. Primary)	04000-A
⑩	Compensating Cond. (Low Frequency)	04000-S
⑪	Condenser (10.0 Mfd.)	7440
⑫	Compensating Condenser (Part of Tuning Condenser Assembly)	
⑬	I.F. Transformer	32-1002
⑭	Compensating Cond. (I.F. Secondary)	04000-A
⑮	Resistor (10,000 ohms) Brown-Black-Orange	4412
⑯	Resistor (490,000 ohms) Yellow-White-Yellow	4517
⑰	Resistor (10,000 ohms) Brown-Black-Orange	4412
⑱	Compensating Condenser (Regeneration)	04000
⑲	Condenser (.00025 Mfd.)	3082
⑳	Condenser (.01 Mfd.)	3903-AM
㉑	Resistor (240,000 ohms) Red-Yellow-Yellow	4410
㉒	Resistor (490,000 ohms) Yellow-White-Yellow	4517
㉓	Resistor (51,000 ohms) Green-Brown-Orange	4518
㉔	Resistor (99,000 ohms) White-White-Orange	4411
㉕	Condenser (.015 Mfd.)	3793-S
㉖	Output Transformer	32-7000
㉗	Voice Coil and Cone Assembly	36-3000
㉘	A. C. Switch (Part of Volume Control Assembly)	33-5001
㉙	Resistors (2 Wire Wound-108 ohms each)	{ 33-3000 33-3001
㉚	Electrolytic Condenser (8 Mfd.)	30-2000
㉛	Electrolytic Condenser (8 Mfd.)	30-2000
㉜	Condenser (.05 Mfd.)	3615-E
㉝	Filter Choke	32-7001
㉞	Tube Shield	7172
㉟	Knobs (Both Controls)	03064
㊱	Four Prong Socket	7544

No. on Figs.	Description	Part No.
①	Condenser	30-1005
①a	Resistor (Green-Black-Red)	6096
②	Condenser	5215
③	Antenna Transformer Assembly	32-1117
④	Tuning Condenser Assembly	31-1027
⑤	Compensating Condenser (Part of ④)	
⑥	Wave Band Switch	42-1027
⑥a	Condenser	30-4020
⑦	Filter Condenser (Block)	30-4023
⑧	Resistor (Flexible)	33-3010
⑨	Compensating Condenser (High Frequency 1400) Part of ④	
⑩	Oscillator Coil	32-1118
⑪	Resistor (Green-Brown-Orange)	4518
⑫	Compensating Condenser (Low Freq.)	04000-B
⑬	Condenser	4519
⑭	Resistor (Green-Black-Red)	5310
⑮	Electrolytic Condenser (Double)	30-2002
⑯	Resistor (White-White-Orange)	4411
⑰	Resistor (Gray-Black-Red)	5838
⑱	Compensating Cond. (1st I. F. Primary)	04000-A
⑲	1st I. F. Transformer	32-1115
⑳	Compensating Condenser (1st I. F. Secondary)	04000-A
㉑	Resistor (Red-Black-Green)	5872
㉒	Compensating Cond. (2nd I. F. Primary)	04000-A
㉓	2nd I. F. Transformer	32-1116
㉔	Condenser (Double)	8035-G
㉕	Volume Control and "On-Off" Switch	33-5010
㉖	Resistor (Green-Brown-Orange)	4518
㉗	Condenser	3903-AM
㉘	Resistor (Yellow-White-Yellow)	6097
㉙	Resistor (Green-Brown-Orange)	4518
㉚	Condenser (Double)	8035-F
㉛	Resistor (Red-Yellow-Yellow)	4410
㉜	Resistor (Yellow-White-Yellow)	4517
㉝	Resistor (Red-Green-Orange)	4516
㉞	Condenser	3793-Y
㉟	Output Transformer	32-7020
㊱	Voice Coil and Cone Assembly	36-3029
㊲	Field Coil and Pot Assembly	36-3040
㊳	Filter Choke	32-7036
㊴	Electrolytic Condenser	30-2001
㊵	Resistor (Wire Wound)	33-3012
㊶	Resistor (Yellow-White-Yellow)	6097
㊷	Condenser	3615-B
㊸	Pilot Lamp	4567
㊹	Resistor (Wire Wound)	33-3011
㊺	Safety Switch	42-1026
㊻	Tube Shield	28-1130
㊼	Six Prong Socket	7547
㊽	Seven Prong Socket	27-6005

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



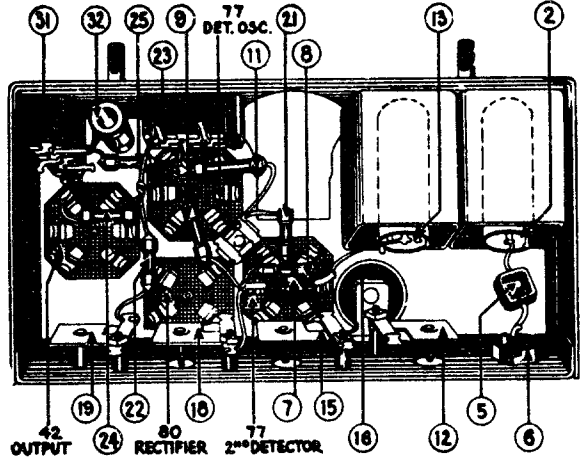
RESISTANCE VALUES (OHMS)

- ① 20,000 VOL. CONT.
- ② 8,000
- ③ 20,000
- ④ 25,000
- ⑤ 4000,000
- ⑥ 1,000,000
- ⑦ 10,000
- ⑧ 240,000
- ⑨ 490,000
- ⑩ 325 (WIRE WOUND)

FIXED CONDENSER VALUES (MFD)

- ⑪ .000325
- ⑫ .001
- ⑬ .09-.09
- ⑭ A-.001-B-.015
- ⑮ .006
- ⑯ .015-.015

PHILCO MODEL 57

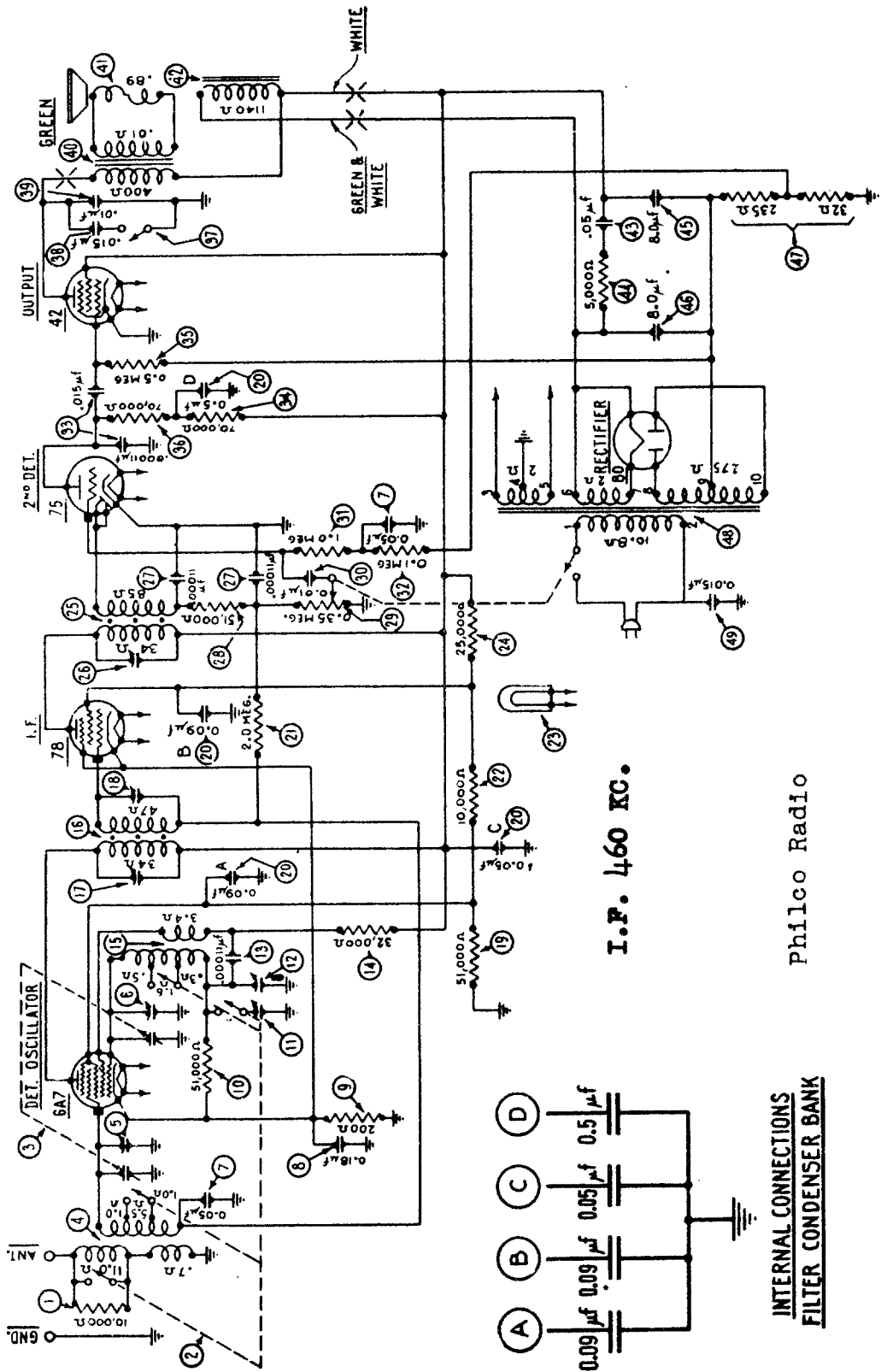


No. on Figs.	Description	Part No.
①	Volume Control and "On-Off" Switch	33-5011
②	Antenna Transformer	32-1153
③	Tuning Condenser Assembly	31-1035
④	Compensating Condenser (Antenna; Part of ③)	
⑤	Condenser	30-1004
⑥	Wave Band Switch	42-1027
⑦	Condenser	5215
⑧	Resistor (Gray-Black-Red)	5838
⑨	Resistor (Red-Black-Orange)	6650
⑩	Condenser (Double)	4989-C
⑪	Resistor (Red-Green-Orange)	3656
⑫	Compensating Condenser (I. F. Primary)	04000-A
⑬	Oscillator Coil	32-1023
⑭	Compensating Cond. (High Frequency—1400 kilocycles) (Part of ③)	
⑮	Compensating Cond. (Low Frequency)	04000-S
⑯	I. F. Transformer	32-1155
⑰	Resistor (Yellow-Black-Green)	6010

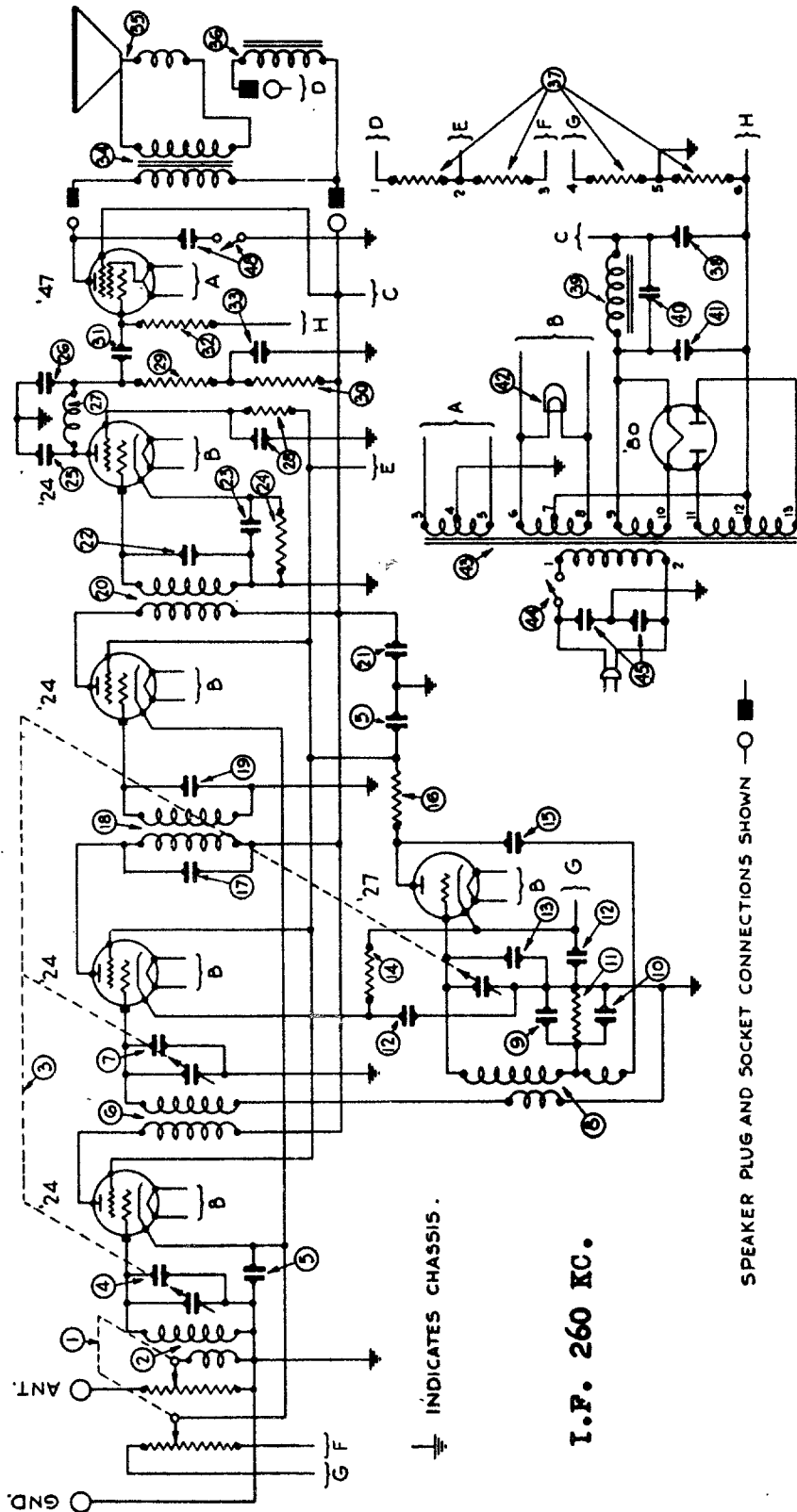
No. on Figs.	Description	Part No.
⑱	Compensating Cond. (I. F. Secondary)	04000-D
⑲	Compensating Condenser	04000
⑳	Resistor (Brown-Black-Green)	4409
㉑	Resistor (Brown-Black-Orange)	4412
㉒	Condenser (Double)	7762-B
㉓	Resistor (Red-Yellow-Yellow)	4410
㉔	Resistor (Yellow-White-Yellow)	3769
㉕	Condenser	7625-E
㉖	Output Transformer	32-7041
㉗	Voice Coil and Cone Assembly	36-3029
㉘	Field Coil and Pot Assembly	36-3081
㉙	Electrolytic Condenser (Double)	30-2004
㉚	Condenser (Double)	3793-R
㉛	Resistor (Wire Wound)	7465
㉜	Power Transformer	32-7046
	Tube Shield	28-1107
	Four Prong Socket	7544
	Six Prong Socket	7547

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

Model 60



MODELS 70 AND 70-A

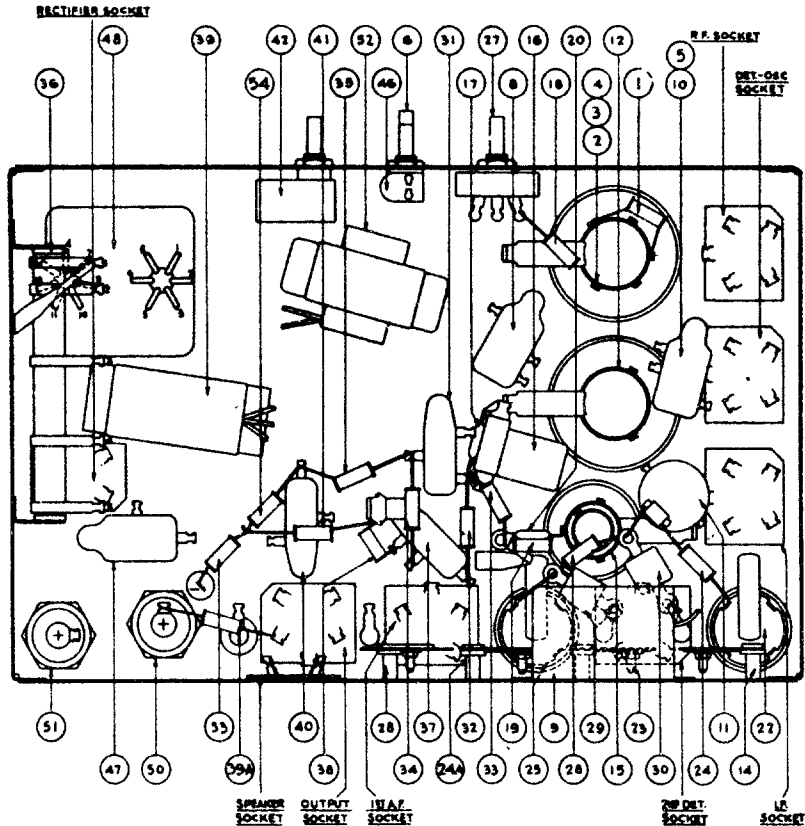


I.P. 260 KC.

SPEAKER PLUG AND SOCKET CONNECTIONS SHOWN

Philco Radio

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



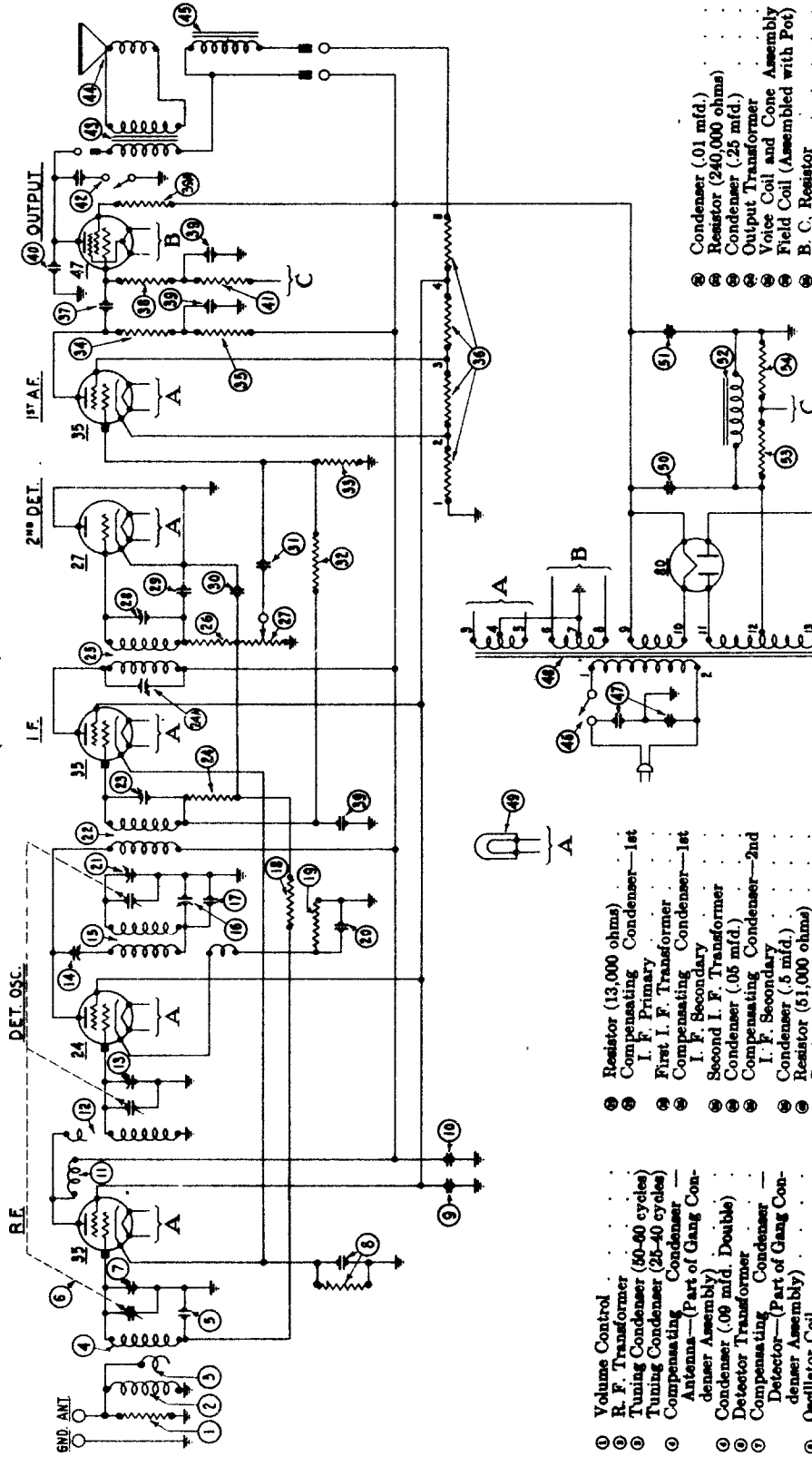
REPLACEMENT PARTS MODELS 70 AND 70-A

(Above Serial No. B-22,000)

No. on Figs. 3 and 4	Description	Part No.	No. on Figs. 3 and 4	Description	Part No.
①	Resistor (10,000 ohms)	4112	Ⓜ	B. C. Resistor	04196
②	Antenna Coil	04339	Ⓝ	Condenser (.01 mfd.)	3903-T
③	Condenser (.05 mfd.) double	3616-AF	Ⓞ	Resistor (490,000 ohms)	4517
④	Tuning Condenser Assembly 50-60 cycles	04164	Ⓟ	Filter Condenser Block (.05, .25, 1.5 mfd.)	04194
⑤	Tuning Condenser Assembly 25-40 cycles	04165	Ⓠ	Resistor (3,000 ohms)	5309
⑥	Compensating Condenser — Antenna — (Part of Tuning Condenser Assembly)		Ⓡ	Condenser (.01 mfd.)	3903-U
⑦	Condenser (.09 mfd. and 200 ohm Resistor)	4989-L	Ⓢ	Resistor (330,000 ohms) 50-60 cycles	6046
⑧	Condenser (.5 mfd.)	3583	Ⓣ	Resistor (490,000 ohms) 25-40 cycles	4517
⑨	Combined with ⑧		Ⓤ	Tone Control	03637
⑩	R. F. Choke	04196	Ⓥ	Output Transformer	2673
⑪	Interstage Coil	04186	Ⓦ	Voice Coil & Cone Assembly	02996
⑫	Compensating Condenser — Detector — (Part of Tuning Condenser Assembly)		Ⓧ	Field Coil Assembled with Pot	02996
⑬	Compensating Condenser—Coupling	04000-M	Ⓨ	On-Off Switch	4095
⑭	Oscillator Coil	04186	Ⓩ	Condenser (.015 mfd. Double)	3793-H
⑮	Compensating Condenser — Low Fre- quency	04000-F	ⓐ	Power Transformer (50-60 cycles)	5117
⑯	Condenser (410 mmf.)	5120	ⓑ	Power Transformer (25-40 cycles)	5118
⑰	Resistor (2,000,000 ohms)	5872	ⓓ	Power Transformer (50-60 cycles, 230 volts)	5119
⑱	Resistor (10,000 ohms)	4412	ⓔ	Pilot Light	3463
⑲	Condenser (700 mmf.)	4520	ⓕ	Electrolytic Condenser (6 mfd.) 50-60 cycles	4916
⑳	Compensating Condenser — High Fre- quency—(part of Tuning Condenser Assembly)		ⓖ	Electrolytic Condenser (14 mfd.) 25-40 cycles	5725
㉑	First I. F. Transformer	04190	ⓗ	Electrolytic Condenser (6 mfd.) 50-60 cycles	4916
㉒	Compensating Condenser—First I. F.	04000-M	ⓘ	Electrolytic Condenser (10 mfd.) 25-40 cycles	5142
㉓	Resistor (2,000,000 ohms)	5872	ⓙ	Filter Choke	4819
㉔	Compensating Condenser 2nd I.F. Primary	04000-M	ⓚ	Resistor (51,000 ohms)	4518
㉕	Second I. F. Transformer	03039	ⓛ	Resistor (490,000 ohms)	4517
㉖	Resistor (99,000 ohms)	4411	ⓜ	Tube Shield	04198
㉗	Volume Control	6015	ⓝ	Knob (Large)	03064
㉘	Compensating Condenser—Second I. F.	04000-M	ⓞ	Knob (Small)	03437
㉙	Condenser (110 mmf.)	4519	ⓐ	Knob Spring	4147
㉚	Condenser (110 mmf.)	4519	ⓑ	Grid Clip	4897
㉛	Condenser (.01 mfd.)	3903-G	ⓓ	Five Prong Socket Assembly	4966
㉜	Resistor (4,000,000 ohms)	6010	ⓔ	Four Prong Socket Assembly	4965
㉝	Resistor (1,000,000 ohms)	4409	ⓖ	Dial Complete	03031
㉞	Resistor (70,000 ohms)	5385	ⓗ	Bezel	5312
㉟	Resistor (25,000 ohms)	4516	ⓘ	Chassis Mounting Screw	W-468
			ⓙ	Mounting Washer	W-315
			ⓚ	Rubber Washer	5189

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

MODELS 70 AND 70-A (A. V. C.)



- ① Volume Control
- ② R. F. Transformer
- ③ Tuning Condenser (50-40 cycles)
- ④ Coupling Condenser (25-40 cycles)
- ⑤ Compensating Condenser—Antenna—(Part of Gang Condenser Assembly)
- ⑥ Detector Transformer
- ⑦ Compensating Condenser—Detector—(Part of Gang Condenser Assembly)
- ⑧ Oscillator Coil
- ⑨ Compensating Condenser—Low Frequency
- ⑩ Resistor (51,000 ohms)
- ⑪ Condenser (.09 mfd. Double)
- ⑫ Compensating Condenser—High Frequency—(Part of Gang Condenser Assembly)
- ⑬ Resistor (6,000 ohms)
- ⑭ Condenser (110 mmf.)
- ⑮ Resistor (13,000 ohms)
- ⑯ Compensating Condenser—1st I. F. Primary
- ⑰ First I. F. Transformer
- ⑱ Compensating Condenser—1st I. F. Secondary
- ⑲ Second I. F. Transformer
- ⑳ Condenser (.06 mfd.)
- ㉑ Compensating Condenser—2nd I. F. Secondary
- ㉒ Resistor (51,000 ohms)
- ㉓ Condenser (500 mmf.)
- ㉔ R. F. Choke
- ㉕ Condenser (.09 Combined with 250 ohm Resistor)
- ㉖ Resistor (240,000 ohms)
- ㉗ Resistor (45,000 ohms) 50-60 cycles
- ㉘ Resistor (99,000 ohms) 25-40 cycles

- ㉙ Resistor (01 mfd.)
- ㉚ Resistor (240,000 ohms)
- ㉛ Condenser (.25 mfd.)
- ㉜ Output Transformer
- ㉝ Voice Coil and Cone Assembly
- ㉞ Field Coil (Assembled with Pot)
- ㉟ B. C. Resistor
- ㊱ Electrolytic Condenser (6 mfd. 50-60 cycles)
- ㊲ Choke
- ㊳ Condenser (.09 mfd.) 50-60 cycles
- ㊴ Electrolytic Condenser (6 mfd.) 50-60 cycles
- ㊵ Pilot Light
- ㊶ Power Transformer (50-60 cycles)
- ㊷ "On-Off" Switch
- ㊸ Condenser (.015 mfd. Double)

I. F. 260 KC.

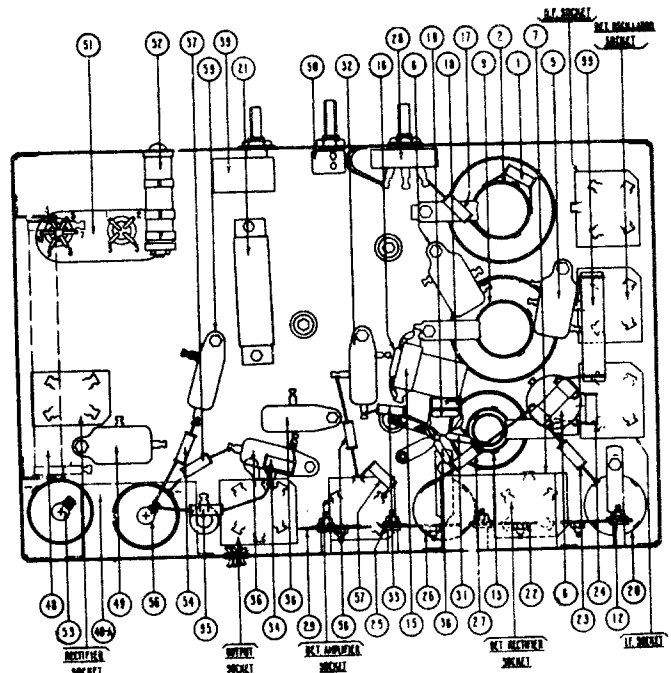
Philco Radio

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

Replacement Parts for Model 71 Series

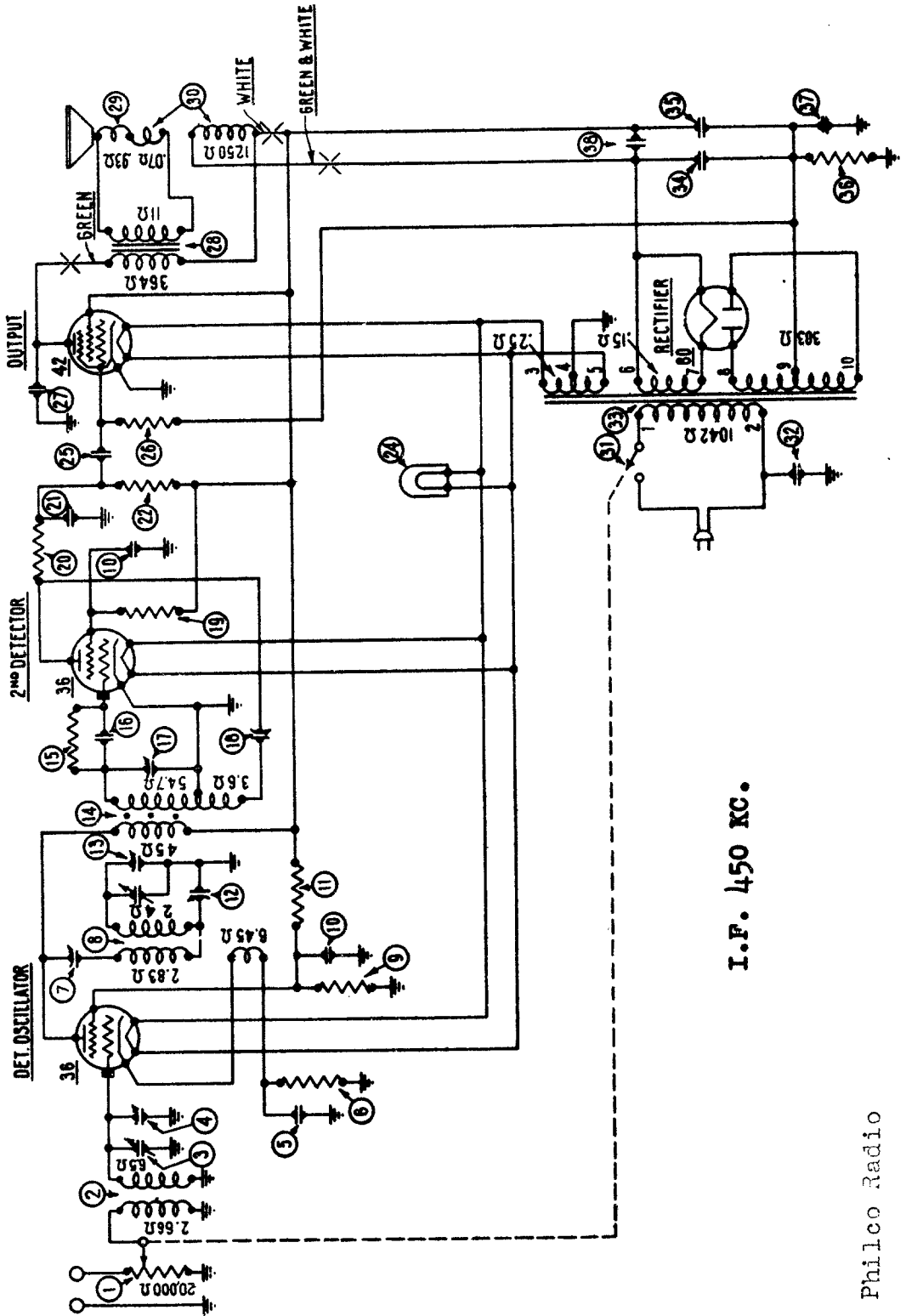
① Resistor (10,000 ohms)	4412	④ Speaker Field and Bucking Coil assembled with pot—(K-7) single speaker models	02761
② R. F. Transformer	04339	④ Output Transformer — Twin speaker models	2584
③ Tuning Condenser (50-60 cycles)	04733	④ Voice Coil and cone assembly	02823
④ Tuning Condenser (25-40 cycles)	04734	⑤ Speaker Field and Bucking Coil assembled with pot—(K-10) Twin speaker models	02767
⑤ Condenser (.05 Mfd. double)	3615-AF	⑤ Voice coil and cone assembly	02823
⑥ Condenser (.09 Mfd. and 200 ohm resistor)	4989-L	⑥ Speaker field assembled with pot—(K-9) Twin speaker models	02762
⑦ Condenser (.5 Mfd.)	3583	⑥ Resistor (5620 ohms) wire wound—Twin speaker models	6451
⑧ R. F. Choke	04198	⑥A Condenser (.25 Mfd.) Twin Speaker Models	04997
⑨ Detector Transformer	04185	⑥ Condenser (.015 Mfd. Double)	3793-H
⑩ Compensating Condenser—Detector—Part of tuning condenser assembly		⑥ On-off Switch	6498
⑪ Pilot Light	6608	⑥ Power Transformer—50-60 cycles—single speaker	6454
⑫ Compensating Condenser—1st I. F. primary	04000-M	Power Transformer—25-40 cycles—single speaker	6455
⑬ Oscillator Coil	04186	Power Transformer—50-60 cycles—230 volts—single speaker	6456
⑭ Compensating Condenser—High frequency—Part of tuning condenser assembly		Power Transformer—50-60 cycles—twin speaker	6457
⑮ Compensating condenser—Low frequency	04000-F	Power Transformer—25-40 cycles—twin speaker	6458
⑯ Condenser (410 Mmf.) (Yellow and Orange)	5120	Power Transformer—50-60 cycles—230 volts—twin speaker	6459
⑰ Resistor (1,000,000 ohms)	4409	⑥ Resistor—wire wound (245 ohms and 185 ohms)	6452
⑱ Resistor (15,000 ohms)	6208	⑥ Electrolytic Condenser (6 Mfd.) (50-60 cycles) single speaker	6453
⑲ Condenser (700 Mmf.) (White and Yellow)	4520	8 Mfd. Twin speaker	6707
⑳ First I.F. Transformer	04190	⑥ Resistor (10,000 ohms)	4412
㉑ Filter Condenser Bank (2 —.05, .25 Mfd.)	04731	⑥ Condenser (.05 Mfd.)	3615-G
㉒ Compensating Condenser—1st I. F. secondary	04000-M	⑥ Electrolytic Condenser (6 Mfd.) (50-60 cycles) single speaker	4916
㉓ Resistor (1,000,000 ohms)	4409	8 Mfd. Twin speaker	6706
㉔ Resistor (1,000 ohms)	5837	⑥ Resistor (5,000 ohms)	5310
㉕ Compensating Condenser—2nd I. F. primary	04000-M	⑥ Resistor (5,000 ohms)	5310
㉖ Second I. F. Transformer	04319	⑥ Resistor (13,000 ohms)	6450
㉗ Resistor (99,000 ohms)	4411	⑥ Tube Shield (small)	5387
㉘ Volume Control	6499	⑥ Tube Shield (large)	04735
㉙ Compensating Condenser—2nd I. F. secondary	04000-M		
㉚ Condenser (110 Mmf.) (Blue and Golden Yellow)	4519		
㉛ Condenser (110 Mmf.) (Blue and Golden Yellow)	4519		
㉜ Condenser (.01 Mfd.)	3903-J		
㉝ Resistor (1,000,000 ohms)	4409		
㉞ Resistor (70,000 ohms)	5385		
㉟ Resistor (25,000 ohms) Single Speaker	4516		
Resistor (51,000 ohms) Twin Speaker Models	4518		
④ Condenser (.01 Mfd.)	3903-N		
④ Resistor (490,000 ohms)	4517		
④ Condenser (.01 Mfd.)	3903-AA		
④ Tone Control	04757		
④ Output Transformer — single speaker models	2580		
④ Voice Coil and Cone assembly	02823		

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MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

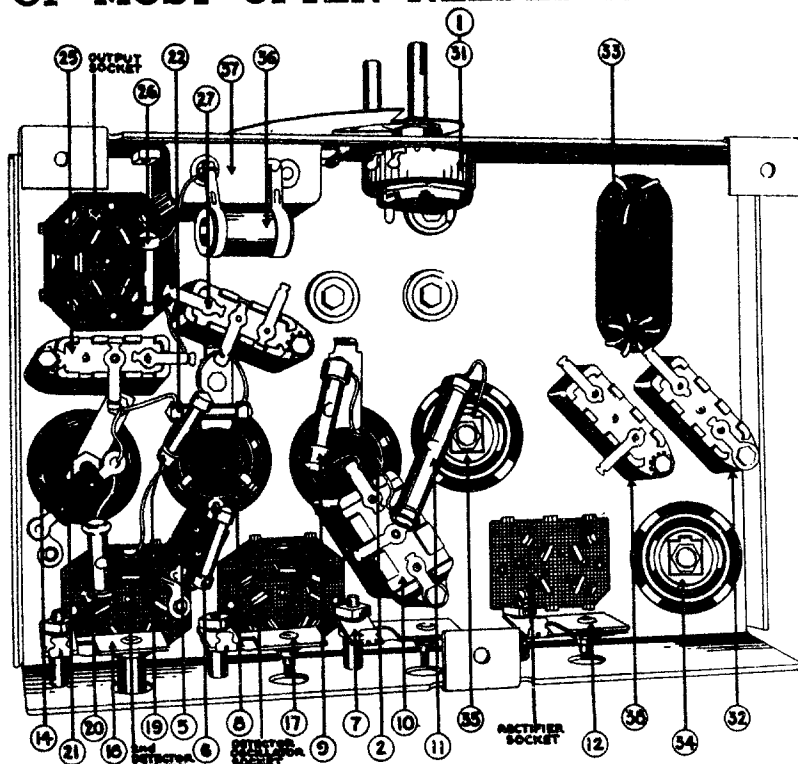
Model 80



I.F. 450 KC.

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MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

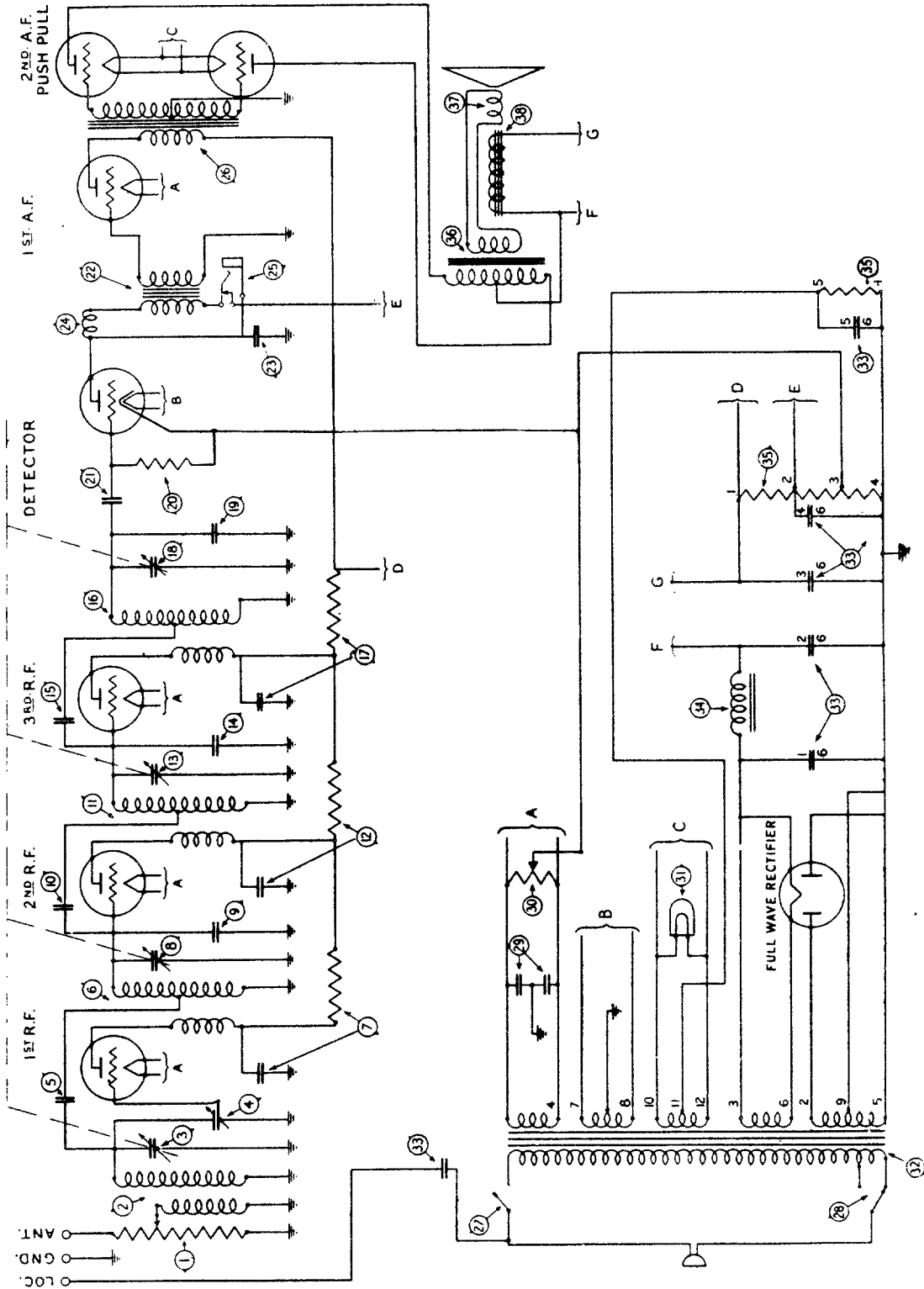


REPLACEMENT PARTS MODEL 80

No. on Figs. 2 and 3	Description	Part No.	No. on Figs. 2 and 3	Description	Part No.
①	Volume Control—Combined with On-Off Switch	7439	②③	Condenser (.015 Mfd.)	3793-B
②	Antenna Transformer	05831	②④	Resistor (490,000 Ohms)	4517*
③	Tuning Condenser Assembly	05794	②⑦	Condenser (.006 Mfd.)	7625-B*
④	Compensating Condenser — Antenna — Part of Tuning Con. Assembly		②⑧	Output Transformer	2660
⑤	Condenser (710 Mmf.) White and Yellow	4520	②⑨	Voice Coil and Cone Assembly	02861
⑥	Resistor (10,000 Ohms)	4412	②⑩	Speaker Field and Bucking Coil Assembled with Pot	02677*
⑦	Compensating Condenser—I.F. Primary	04000-A	②⑪	On-Off Switch—Combined with Volume Control	7439
⑧	Oscillator Coil	05832	②⑫	Condenser (.01 Mfd.)	3903-AH*
⑨	Resistor (9,000 Ohms)	7501	②⑬	Power Transformer 50-60 Cycles	7421
⑩	Condenser (.09 Twin)	4989-B	②⑭	Power Transformer 25-40 Cycles	7422
⑪	Resistor (16,000 Ohms)	7500	②⑮	Power Transformer 50-60 Cycles, 230 Volts	7423
⑫	Compensating Condenser — Low Frequency:	04000-S	②⑯	Electrolytic Condenser (8.0 Mfd.)	6707
⑬	Compensating Condenser — High Frequency — Part of Tuning Con. Assembly		②⑰	Electrolytic Condenser (4.0 Mfd.)	7487
⑭	I.F. Transformer	05834	②⑱	Resistor (325 Ohms) Wire Wound	7465*
⑮	Resistor (4,000,000 Ohms) Mounted on I.F. Transformer	6010	②⑲	Electrolytic Condenser—Dry—(10 Mfd.)	7440*
⑯	Condenser (50 Mmf.) White—Mounted on I.F. Transformer	3774	②⑳	Condenser (.01 Mfd.)	3903-AJ*
⑰	Compensating Condenser—I.F. Secondary	04000-D		Basel	7417
⑱	Compensating Condenser	04000		Dial Complete	05828
⑲	Resistor (1,000,000 Ohms)	4409*		Tube Shield	7172
⑲	Resistor (10,000 Ohms)	4412		Knob (Large)	03063
⑲	Condenser (1,000 Mmf.) Green and White	5215		Knob (Small)	03064
⑲	Resistor (240,000 Ohms)	4410		Knob Spring	5262
⑲	Pilot Light	6608		Grid Clip	4897
				Four Prong Socket Assembly	5026
				Five Prong Socket Assembly	4956
				Six Prong Socket Assembly	6417
				Chassis Mounting Screw	W-567
				Chassis Mounting Washer	W-315
				Rubber Washer	5189
				Pilot Lamp Shield	5760

* A number of circuit changes were made on chassis of run No. 5 and above. This run number is rubber stamped in a star on the back of the chassis. Referring to Figs. 2 and 3, the condenser ⑲ connects to the B- end of resistor ⑲ instead of to ground. The bucking coil - that section of ⑲ in series with the voice coil - is shorted out. The 10 mfd. dry electrolytic condenser ⑲ is eliminated, and replaced with a substitute .015 section combined with ⑲, part 3793R. The .01 mfd. condenser ⑲ is eliminated. The positions of ⑲ ⑲ and ⑲ are changed in the chassis from that shown in Fig. 8.

Model 86 and 82



Replacement Parts for Model 86

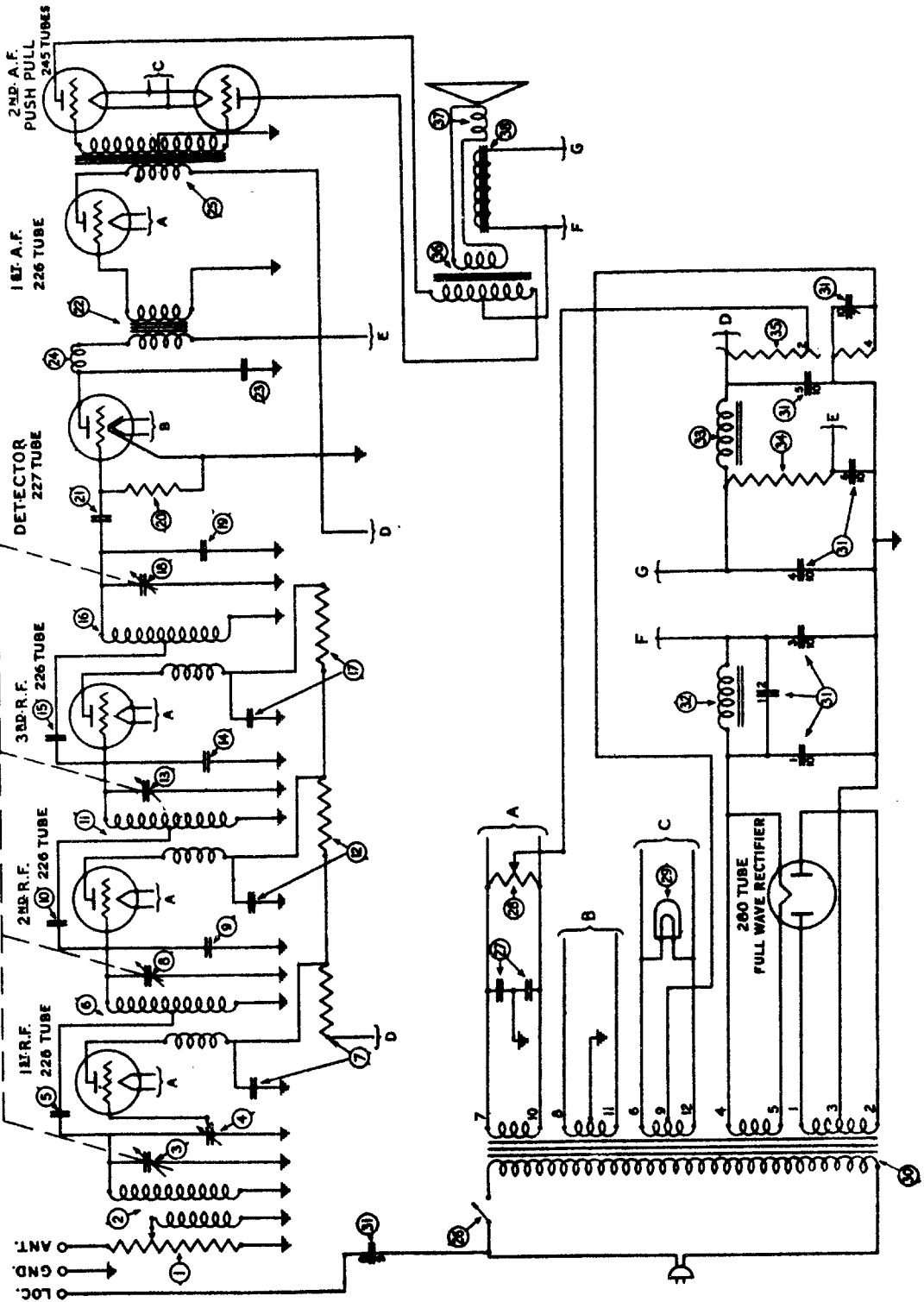
PART NAME	PART No.
Volume Control	3076
R. F. Transformer (Antenna Tuning)	3075-B
Tuning Condenser (complete with drum and scale)	3001-B
Range Control	3133
Neutralizing Condenser	3025-A
R. F. Transformer	3075-A
By-Pass Condenser (1 mfd. with Plate Resistor Winding)	3292-A
Compensating Condensers	3282-A
Grid Leak	3083
Grid Condenser	3082
Audio Transformer	3241
By-Pass Condenser (.001 mfd.)	3081
Detector R. F. Choke	3256-A
Phonograph Pick-Up Jack	3087
Push-Pull Input Transformer	3242
Power-Toggle Switch	3253
Primary Tap Switch	3116
Filament By-Pass Condenser (2 sections .5 mfd.)	3080
6-Ohm Hum Adjuster	3086
Pilot Lamp	3105
Power Transformer (60 cycle)	3271
Filter Condenser Block (60 cycle)	3246
Filter Choke Coil	3269
B-C Section Resistor	3232
Push-Pull Output Transformer	2887
Speaker Plug	2871-A
Speaker Cone and Voice Coil	2898
Speaker Field Coil	2896
Cable Spring	3012
Control Knob Tuning Condenser	3035-A
Control Knob (Volume and Range Control)	3036-A
226 Tube Socket	3031-A
Condenser Drive Cable	3094-A
Knob Spring	3103
Fibre Adjusting Wrench	3164
280 Tube Socket	3169-A
171 Tube Socket	3170-A
Pilot Lamp Socket Assembly	3202-A
Jack Insulator Nut	3231
Terminal Panel Assembly	3236-A
Speaker Socket	3247-A
227 Tube Socket, Spring Type	3263-A
Jack Insulator	3272
A.C. Attachment Cord and Plug	L-943-A
Wiring Cable	L-1037
Speaker Cable	L-1039
Socket Wrench for Speaker Mounting Bolts	3312
Note:—When ordering replacements for 25-cycle Receivers (Model 83) use the following part numbers instead of those given above. All other part numbers remain the same.	
Power Transformer (25 cycle)	3278
Filter Condenser Block (25 cycle)	3279

Replacement Parts for Model 87

PART NAME	PART No.
Volume Control	3076
R. F. Transformer (Antenna Tuning)	3075-B
Tuning Condenser (Complete with Drum and Scale)	3001-B
Range Control	3133
Neutralizing Condenser	3441-A
R. F. Transformer	3075-A
By-Pass Condenser (1 mfd. with Plate Resistor Winding)	3292-A
Compensating Condensers	3435-A
Grid Leak	3083
Grid Condenser	3082
Audio Transformer	3241
By-Pass Condenser (.001 mfd.)	3081
Detector R. F. Choke	3256-A
Push-Pull Input Transformer	3242
Power Toggle Switch	3501
Filament By-Pass Condenser (2 Sections 5 mfd.)	3080
6-Ohm Hum Adjuster	3086
Pilot Lamp	3463
Power Transformer	3400
Filter Condenser Block	3401
Filter Choke Coil (First)	3472
Filter Choke Coil (Second)	3472
Detector Resistor	3542
B-C Resistor	3399
Push-Pull Output Transformer	2948
Speaker Cone and Voice Coil	2944-A
Speaker Field Coil	2860
Speaker Plug	2871-A
Cable Spring	3012
Control Knob Tuning Condenser	3301
Control Knob (Volume and Range Control)	3300
Condenser Drive Cable	3484
Knob Spring	3305
Fibre Adjusting Wrench	3164
4-Hole Tube Socket	3423-A
Pilot Lamp Socket Assembly	3202-A
Terminal Panel Assembly	3296-A
Speaker Socket	3464-A
5-Hole Tube Socket	3449-A
A.C. Attachment Cord and Plug	L-943-A
Speaker Cable	L-1036-A
Socket Wrench for Speaker Mounting Bolts	3312
Tuning Scale	3398
Oscillator Kit	3540
Wood Switch Plug	3627

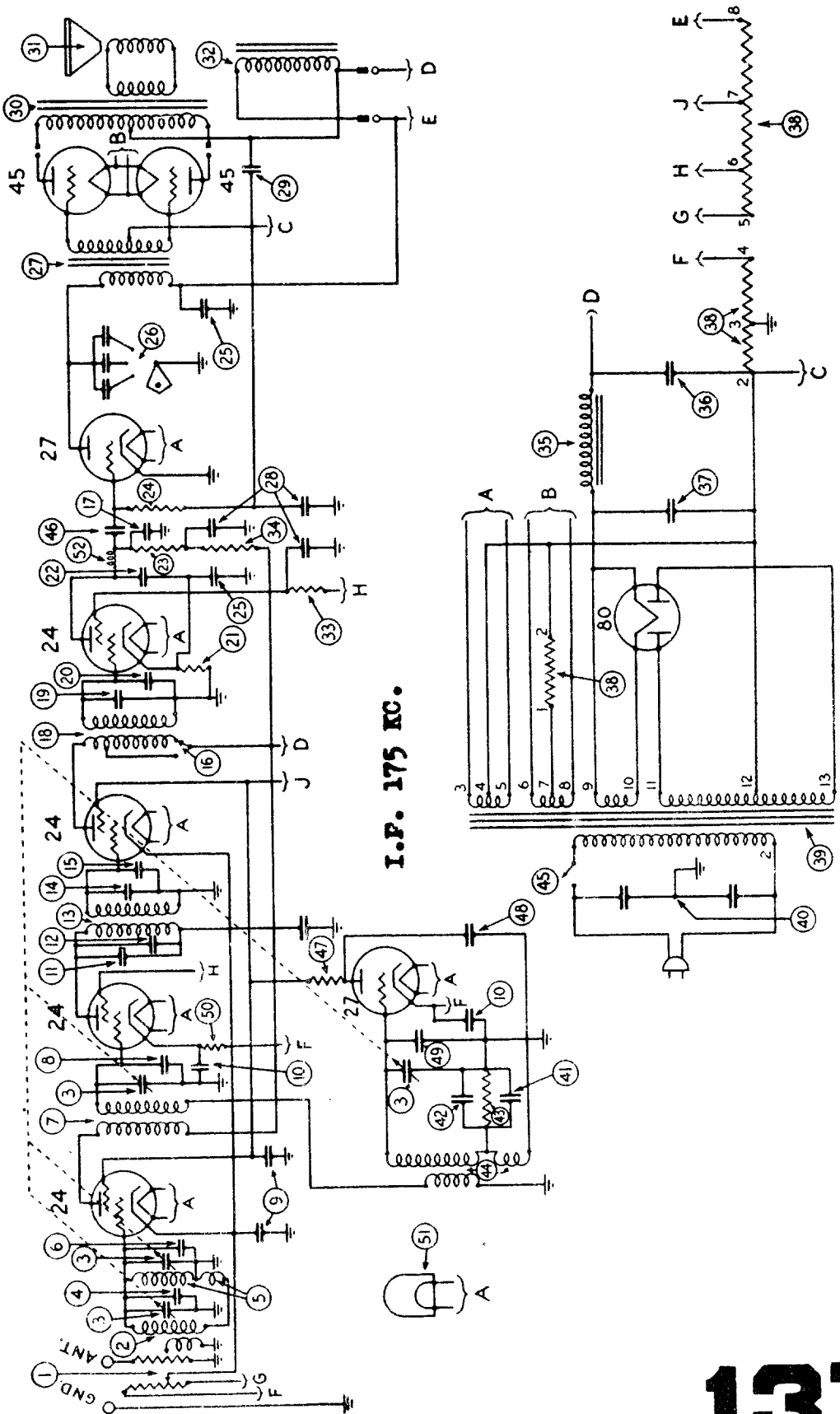
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

Model 87



Models 90 and 90-A

WITH 2- TYPE 45 TUBES



I.F. 175 KC.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

Models 90 and 90-A

WITH 2- TYPE 45 TUBES

No. on Figs. 3 and 4	Description	Part No.	No. on Figs. 3 and 4	Description	Part No.
①	Volume Control	5030	①	Condenser .015 M. F. (Double)	3798-E
②	1st R. F. Transformer	03013	②	Condenser .0007 M. F.	Assembled 03050
③	Gang Condenser—50 to 60 cycles	03001	③	Compensating Condenser	
④	Gang Condenser—25 to 40 cycles	03078	④	Resistor—50,000 Ohms	4287
⑤	Compensating Condenser (Part of Tuning Condenser Assembly)	03014	⑤	Oscillator Coil	03016
⑥	2nd R. F. Transformer		03014	⑥	On-Off Switch	4095
⑦	Compensating Condenser (Part of Tuning Condenser Assembly)	08015	⑦	Condenser .001 M. F.	5215
⑧	1st Det. Transformer		08015	⑧	Resistor—13,000 Ohms	3796
⑨	Compensating Condenser (Part of Tuning Condenser Assembly)	4980-C	⑨	Condenser .0011 M. F.	4519
⑩	Condenser .09 M. F. (Double)		4980-C	⑩	Compensating Condenser (Part of Tuning Condenser Assembly)	3626
⑪	Condenser .09 M. F. (Double)	4980-B	⑪	Resistor—5,000 Ohms	3463
⑫	Fixed Condens. .00311	Assembled 3772-C	⑫	Pilot Bulb	03066
⑬	Compensating Condenser		3772-C	⑬	R. F. Choke	L-943
⑭	1st I. F. Transformer	08009	⑭	Line Cord and Plug	08002
⑮	Compensating Condenser	Assembled 03061	⑮	Tube Shield	4956-A
⑯	Fixed Condenser .00011		03061	⑯	Knob (large) Dial Control	4147
⑰	Normal Maximum Switch	3116	⑰	Spring (Dial Knobs)	4939-A
⑱	Condenser (.000335 mf)	4990	⑱	Knobs (small) Tone and Volume Control	4390-A
⑲	2nd I. F. Transformer	03143	⑳	Knob (switch)	4937
㉑	Compensating Condenser	Assembled 03061	㉑	Grid Clip	L-1134-A
㉒	Fixed Condenser .00011		03061	㉒	Speaker Plug and Cable	3747
㉓	Resistor—50,000 Ohms	4518	㉓	Crommet for R. F. Transformer Shield	5026
㉔	Condenser .00035	4990	㉔	Rectifier Tube Socket	4955
㉕	Resistor—250,000 Ohms	4410	㉕	Four Prong Socket Assembly	4956
㉖	Resistor—1,000,000 Ohms	4409	㉖	Five Prong Socket Assembly	4957
㉗	Condenser 5 M. F. (Double)	03024	㉗	Speaker Socket	4092
㉘	Tone Control	4037-A	㉘	Volume Control Insulator	4286
㉙	1st Audio Transformer	4982	㉙	Volume Control Insulator	L-1126
㉚	Condensers 2—25 M. F. and 1—5 M. F.	03029	㉚	Fahnstock Clip	4287
㉛	Condenser .05 M. F.	3615-G	㉛	Finishing Rosettes	4147
㉜	Output Transformer	2848	㉜	Speaker Mounting Screws (3 used)	W-425
㉝	H ₁ (For Large Cone Assembly)		2766	㉝	Speaker Mounting Screws (1 used)	W-453
㉞	H ₂ (For Small Cone Assembly)	02997	㉞	Dial	5021
㉟	H ₃ (Large Cone)		02997	㉟	Mica for Gang Condenser Compensating Condenser	3473
㊱	H ₄ (Small Cone)	02996	㊱	Insulating Washer for Compensating Condenser	3500
㊲	Speaker Field—Assembled with Pot and Frame	3796	㊲	Tuning Condenser Mounting Washer	3014
㊳	Resistor—250,000 Ohms		4410	㊳	Tuning Condenser Mounting Washer	3015
㊴	Resistor—250,000 Ohms	4410	㊴	Tuning Condenser Mounting Sleeve	3016
㊵	Filter Choke	4981	㊵	Spring for Tuning Condenser	4285
㊶	Condenser 6 M. F. Electrolytic Type (50-60 cycles)	4916	㊶	Base	5006
㊷	Condenser 10 M. F. Electrolytic Type (25-40 cycles)	5142	㊷	Complete Pilot Bracket	03061-A
㊸	Condenser 6 M. F. Electrolytic Type (25-40) and (40-60) cycles	4916	㊸	Dial Disc	4625
㊹	B. C. Resistor	4963	㊹	Light Shield Screen	4937
㊺	Power Transformer (50 to 60 cycles)	4926	㊺	Friction Drive Bracket	4956
㊻	Power Transformer (25 to 40 cycles)	4956	㊻	Brass Collar for Friction Drive	4956
			㊼	Shaft	4951

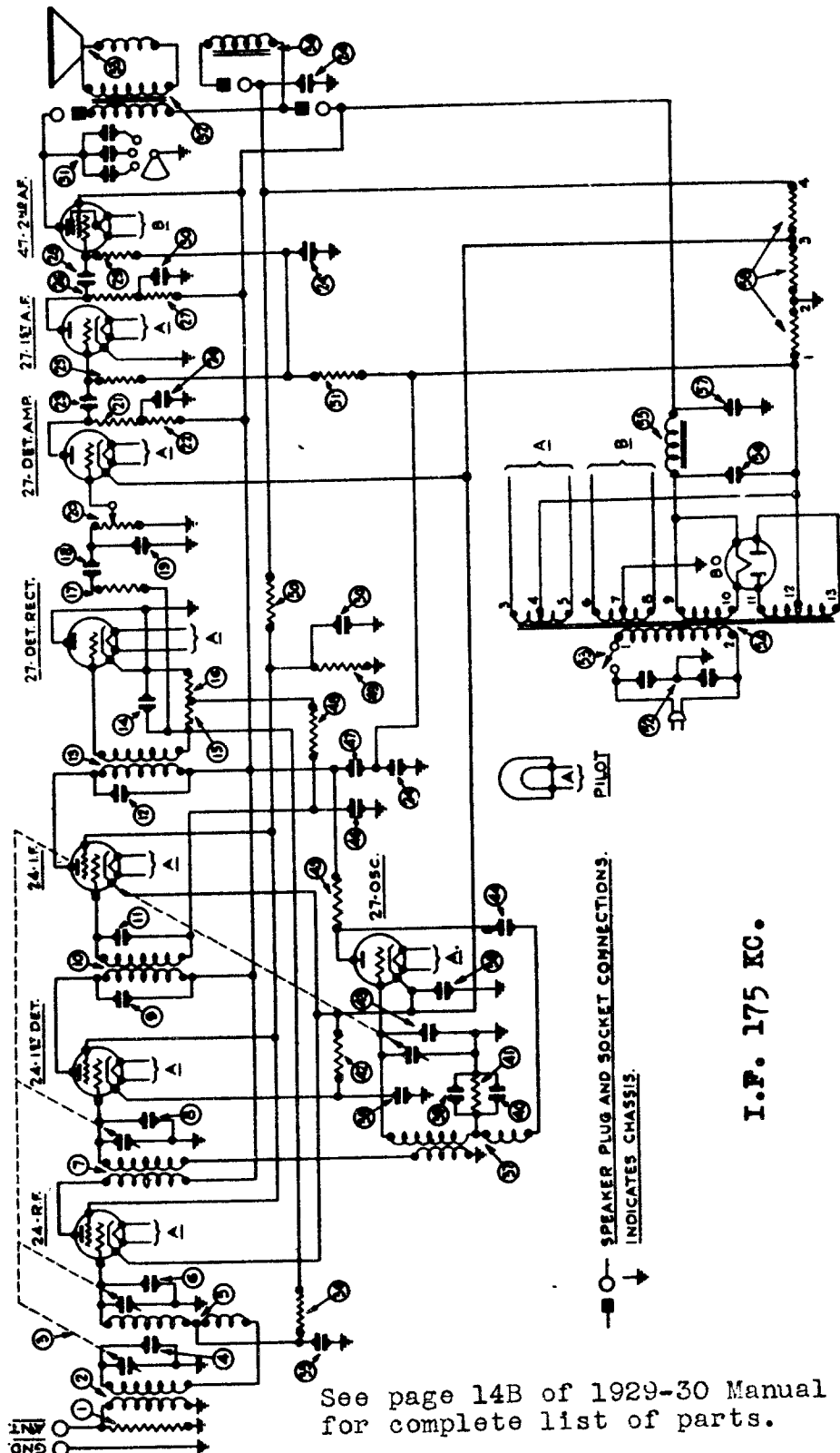
REPLACEMENT PARTS—MODELS 90 and 90-A RECEIVERS

(Above Serial No. 237,901)

No. on Figs. 3 and 4	Description	Part No.	No. on Figs. 3 and 4	Description	Part No.
①	Resistor (10,000 ohms)	4412	⑤	Voice Coil Assembly and Cone:	
②	First R. F. Transformer	03360	⑥	H ₃ (Large Cone)	02997
③	Gang Condenser (50-60 cycles)	03001	⑦	K ₂ (Small Cone)	02996
④	Gang Condenser (25-40 cycles)	03078	⑧	Speaker Field (Assembled with pot and frame)	
⑤	Compensating Condenser (part of gang condenser assembly)	03014	⑨	By-Pass Condenser (.05 mfd.)	3615-W
⑥	Second R. F. Transformer		03014	⑩	Resistor (490,000 ohms)	4517
⑦	Compensating Condenser (part of gang condenser assembly)	03015	⑪	Oscillator Coil	03016
⑧	First Detector Transformer		03015	⑫	By-Pass Condenser (.09 mfd.) double	4989-G
⑨	Compensating Condenser (part of gang condenser assembly)	03315	⑬	Compensating Condenser } Assembled	03050
⑩	Compensating Condenser (First I. F. Primary)		03315	⑭		Condenser (.0007 mfd.)
⑪	First I. F. Transformer	03009	⑮	Resistor (51,000 ohms)	4518
⑫	Compensating Condenser (First I. F. Secondary)	03315	⑯	Resistor (5,000 ohms)	5310
⑬	Compensating Condenser (Second I. F. Primary)	03317	⑰	Compensating Condenser (part of tuning condenser assembly)	
⑭	Second I. F. Transformer	03345	⑱	Condenser (110 mmf.)	4519
⑮	Condenser (110 mmf.)	4519	⑲	Resistor (51,000 ohms)	4237
⑯	Resistor (51,000 ohms)	4518	⑳	By-Pass Condenser (.05 mfd.)	3615-U
⑰	Resistor (51,000 ohms)	4518	㉑	By-Pass Condenser (.05 mfd.)	3615-E
⑱	Resistor (99,000 ohms)	4411	㉒	Resistor (490,000 ohms)	4517
㉑	By-Pass Condenser (.01 mfd.)	3903-M	㉓	Resistor (70,000 ohms)	5385
㉒	Condenser (.00025 mfd.)	8082	㉔	Resistor (25,000 ohms)	4516
㉓	Volume Control	5366	㉕	Resistor (240,000 ohms)	3768
㉔	Resistor (51,000 ohms)	4518	㉖	Condenser (.015 mfd.) double	3793-E
㉕	Resistor (70,000 ohms)	5385	㉗	On-Off Switch	4095
㉖	By-Pass Condenser (.01 mfd.)	3903-M	㉘	Power Transformer (50-60 cycles)	5362
㉗	Condenser (1-1 mfd., 1-13 mfd., 2-25 mfd.)	03325	㉙	Power Transformer (25-40 cycles)	5363
㉘	Resistor (240,000 ohms)	4410	㉚	Power Transformer (50-60 cycles, 220 volts)	5364
㉙	Resistor (35,000 ohms)	3656	㉛	Choke	4951
㉚	Resistor (35,000 ohms)	3656	㉜	Condenser (6 mfd.) Electrolytic type (50-60 cycles)	4916
㉛	By-Pass Condenser (.01 mfd.)	3993-P	㉝	Condenser (10 mfd.) Electrolytic type (25-40 cycles)	5142
㉜	Resistor (340,000 ohms)	4410	㉞	Condenser (6 mfd.) Electrolytic type (50-60 cycles)	4916
㉝	Condenser (.25 mfd., 1 mfd.)	03327	㉟	Condenser (10 mfd.) Electrolytic type (25-40 cycles)	5142
㉞	Tone Control	4037-A	㊱	B. C. Resistor	5385
㉟	Output Transformer	2873	㊲	Line Cord and Plug	L-943
			㊳	Tube Shield (Large)	03373

Models 90 and 90-A
 ABOVE SERIAL NO. 237,001
 WITH 1-TYPE 47 TUBE

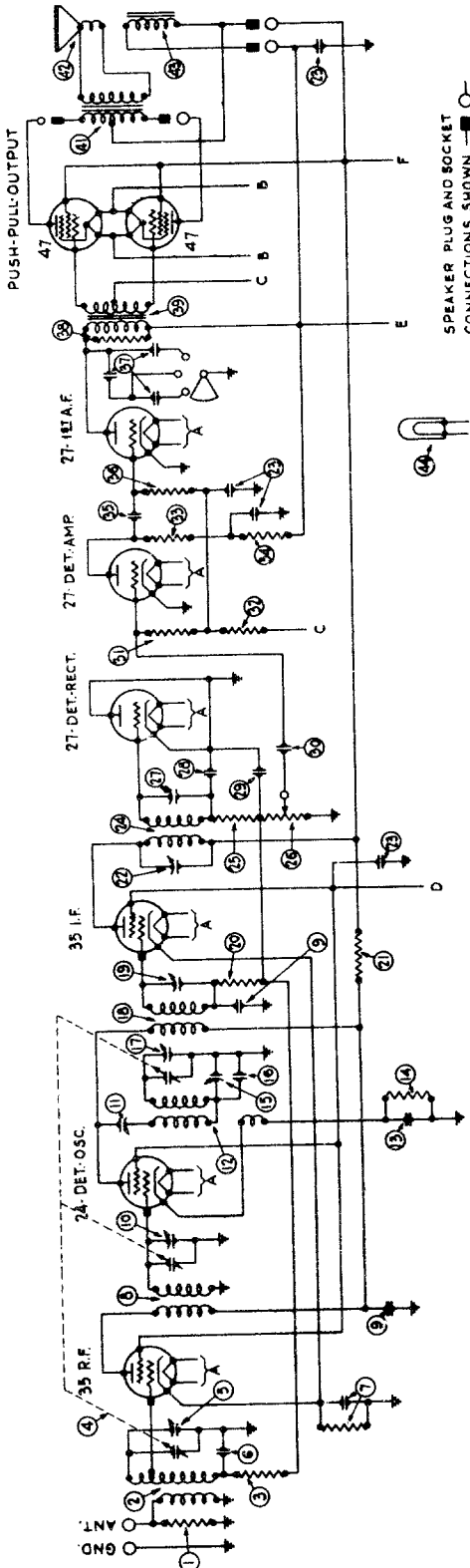
Philco Radio



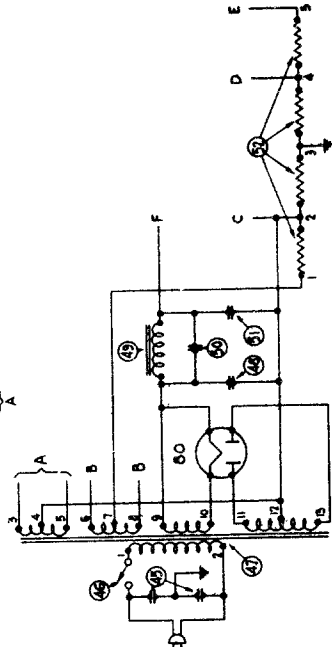
See page 14B of 1929-30 Manual for complete list of parts.

I.F. 175 KC.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



SPEAKER PLUG AND SOCKET CONNECTIONS SHOWN



No. on Fig. 1 and 2

Part No.

No. on Fig. 1 and 2	Description	Part No.	Description	Part No.
1	Resistor (10,000 Ohms)	4412	Condenser (110 Mmf.)	4519
2	Antenna Transformer	04317	Condenser (110 Mmf.)	4519
3	Resistor (1,000,000 Ohms)	4409	Condenser (.01 Mfd.)	3908-N
4	Tuning Condenser (50-60 cycles)	04309	Resistor (1,000,000 Ohms)	4517
5	Tuning Condenser (25-40 cycles)	04310	Resistor (490,000 Ohms)	4516
6	Compensating Condenser—Antenna Part of Tuning Condenser Assembly	3615-L	Resistor (25,000 Ohms)	4409
7	Condenser (.05 Mfd.)	4989-L	Resistor (25,000 Ohms)	4409
8	Condenser (.06 Mfd. and 200 Ohm Resistor)	04408	Condenser (.01 Mfd.)	3908-X
9	Detector Transformer	3615-AJ	Resistor (1,000,000 Ohms)	4409
10	Compensating Condenser—Detector Part of Tuning Condenser Assembly	04000-M	Tone Control	08187
11	Compensating Condenser—Coupling Oscillator Coil	04409	Resistor (51,000 Ohms)	4518
12	Condenser (700 Mmf.)	4820	Resistor (1,000,000 Ohms)	6084
13	Resistor (15,000 Ohms)	6208	Push-Pull Input Transformer	6315
14	Compensating Condenser—Low Frequency	04000-B	Push-Pull Output Transformer	2935
15	Condenser (410 Mfd.)	5120	Voice Coil and Core Assembly	02874
16	Resistor (1,000,000 Ohms)	4409	Pilot Light	3468
17	Resistor (1,000 Ohms)	4590	On-Off Switch	3792-E
18	Compensating Condenser—Second I.F. Primary	04000-M	Power Transformer (50-60 cycles)	6072
19	Condenser (2-.25, 2-5 Mfd.)	04320	Power Transformer (25-40 cycles)	6073
20	Second I.F. Transformer	4411	Power Transformer (50-60 cycles, 280 volts)	6074
21	Resistor (98,000 Ohms)	6015	Electrolytic Condenser (5 Mfd.) 50-60 cycles	4916
22	Volume Control		Filter Choke	6287-B
			Condenser (.15 Mfd.)	4915
			Condenser (5 Mfd.)	6071
			B. C. Resistor	

I.F. 260 KC.

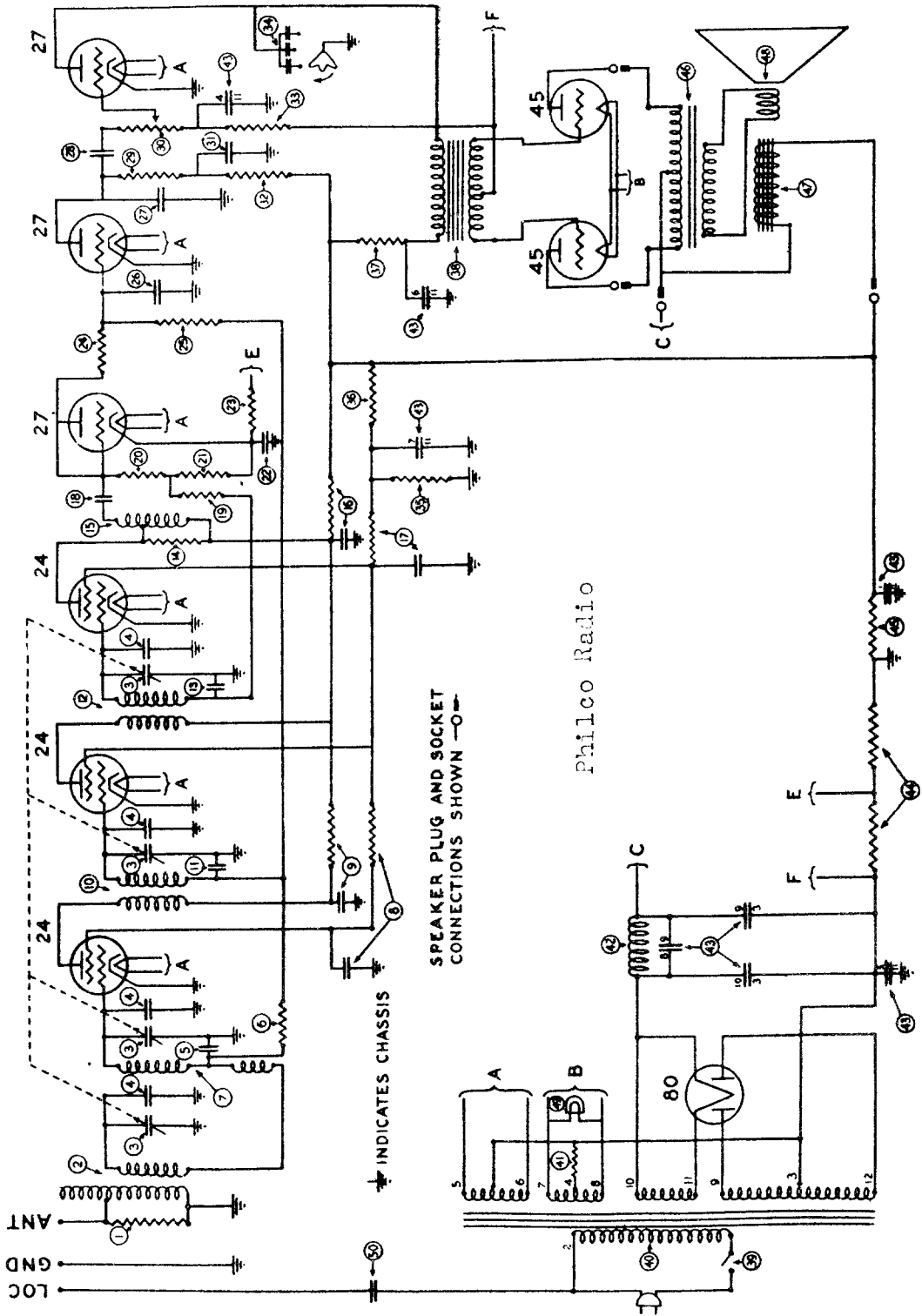
Philco Radio

MODEL 90

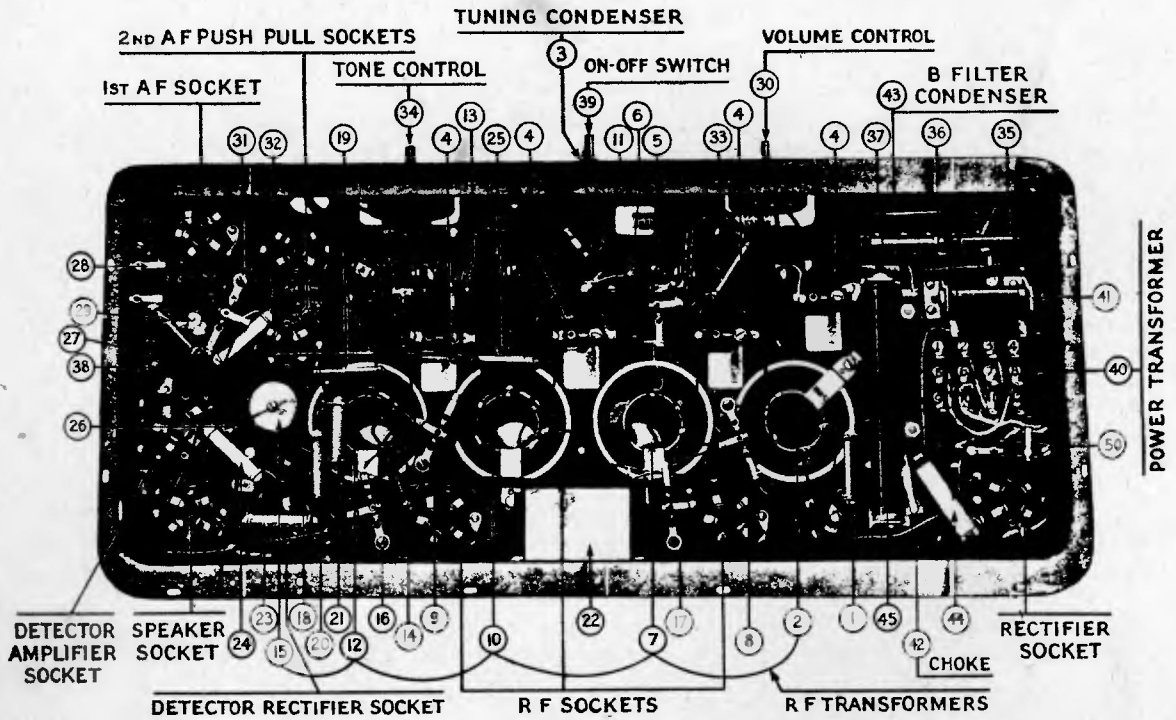
WITH 2- TYPE 47 TUBES
SERIAL No. 32,001 TO B35,000
AND ABOVE B53,100

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

MODEL 96



MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

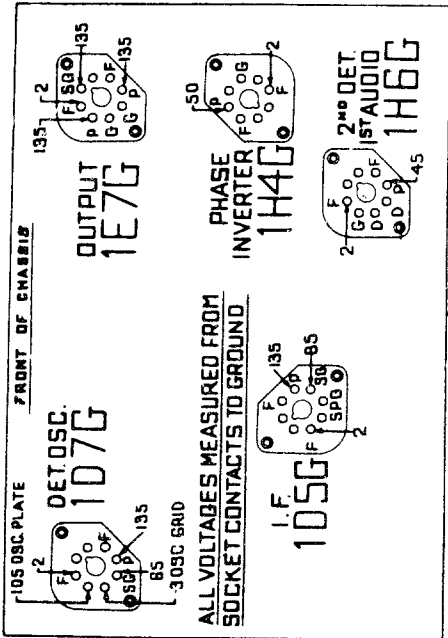
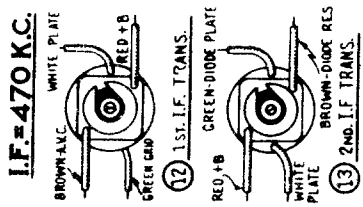
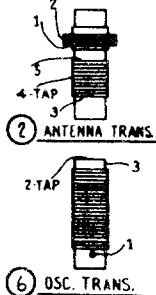
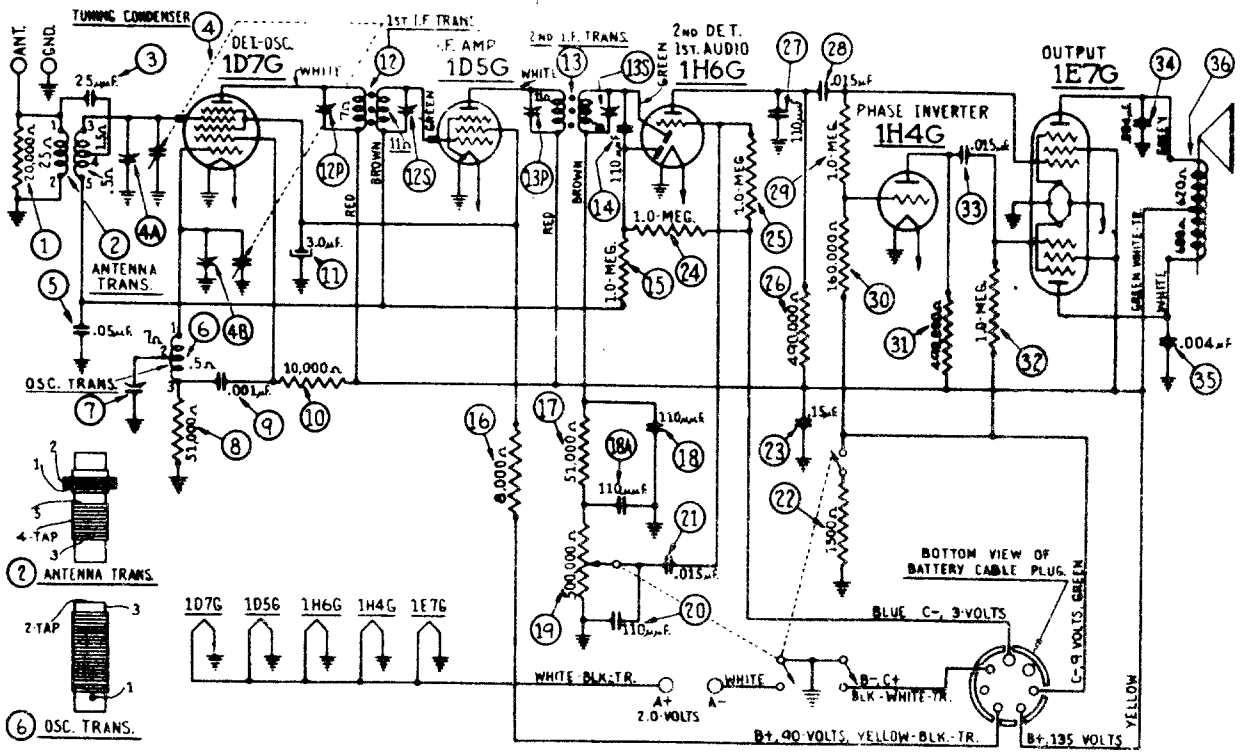


Replacement Parts for Model 96

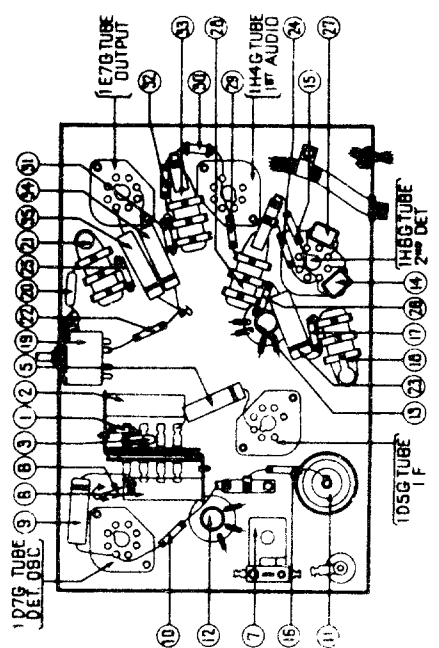
No.	Description	Part No.	No.	Description	Part No.
1	Antenna Resistor	3526	30	Volume Control	4093
2	First R. F. Transformer	3744-A	31	By-Pass Condenser	3615-D
3	Tuning Condenser	4000-D	32	Resistor	3768
4	Compensating Condenser	3772-A	33	Resistor	3542
5	By-Pass Condenser	3615-F	34	Tone Control	4037-A
6	Resistor	3542	35	Resistor	3542
7	Second R. F. Transformer	3744-B	36	Resistor	3766
8	By-Pass Condenser and Resistor	3615-C	37	Resistor	3656
9	By-Pass Condenser and Resistor	3615-B	38	Input Transformer	3537
10	Third R. F. Transformer	3744-C	39	On-Off Switch	4095
11	By-Pass Condenser	3615-E	40	Power Transformer (60 Cycle)	3752
12	Fourth R. F. Transformer	3744-C	41	Power Transformer (25 Cycle)	3753
13	By-Pass Condenser	3615-E	42	C Resistor	3763
14	Resistor	3766	43	Choke	3422
15	Fifth R. F. Transformer	3775-B	44	Filter Condenser (60 Cycle)	3754
16	By-Pass Condenser and Resistor	3615-B	45	Filter Condenser (25 Cycle)	3755
17	By-Pass Condenser and Resistor	3615-C	46	Resistor	3764
18	Condenser	3774	47	B Resistor	3762
19	Resistor	3760	48	Out-Put Transformer	2848
20	Resistor	3767	49	Field Coil	2850
21	Resistor	3767	50	Voice Coil and Cone	2794-B
22	By-Pass Condenser	3583		Pilot Lamp	3463
23	Resistor	3767		Condenser (LOC)	3793-B
24	Resistor	3768		Knob (Vol. Control)	3579
25	Resistor	3769		Knob (Tuning Condenser)	3580
26	By-Pass Condenser	3082		Dial Indicator	4006
27	By-Pass Condenser	3082		Scale	4118
28	Condenser	3793-C		Speaker Plug and Cable (Short)	L-1101-A
29	Resistor	3769		Speaker Plug and Cable (Long)	L-1102-A

NOTE: The first two Compensating Condensers ④ are 3772-A; the third and fourth Condensers are 3968-A.

PHILCO Model 37-33

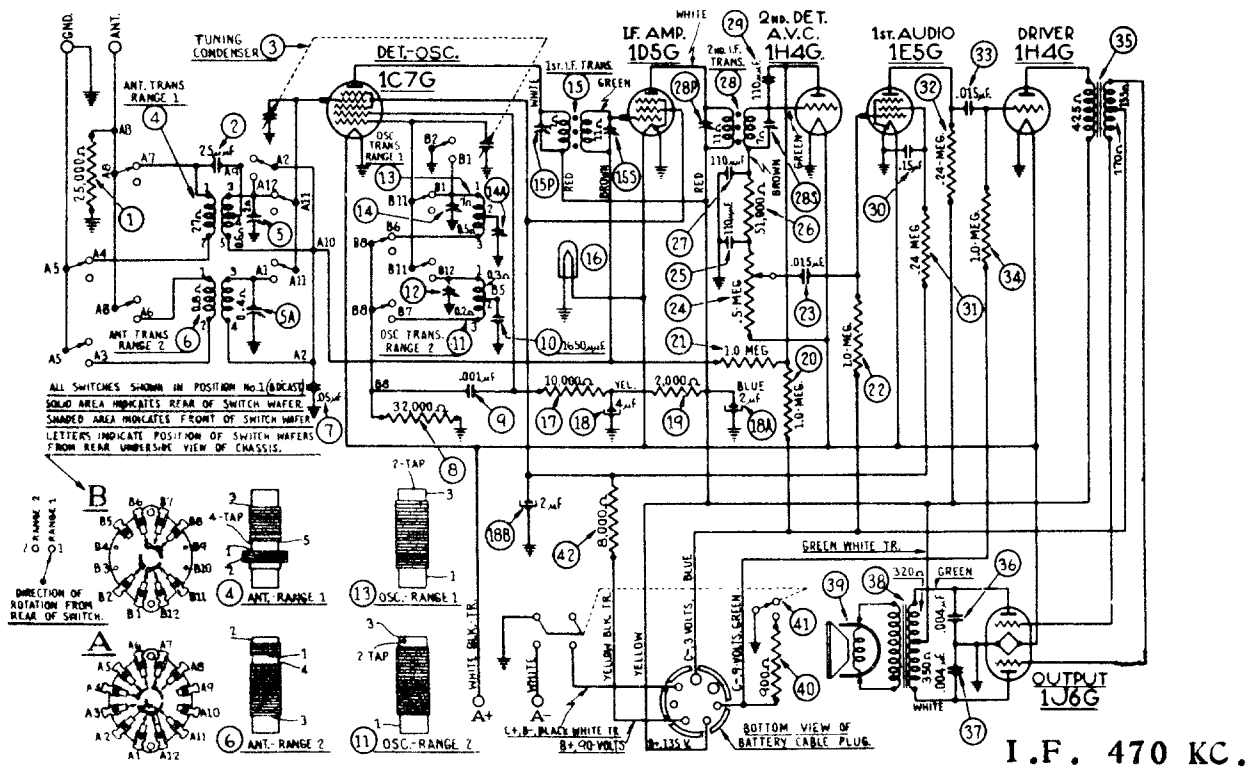


View of Sockets from Underside Chassis
 The voltages indicated by arrows were measured with a Philco 25 Circuit Tester which contains a voltmeter having a resistance of 1000 ohms per volt. Volume Control at minimum.

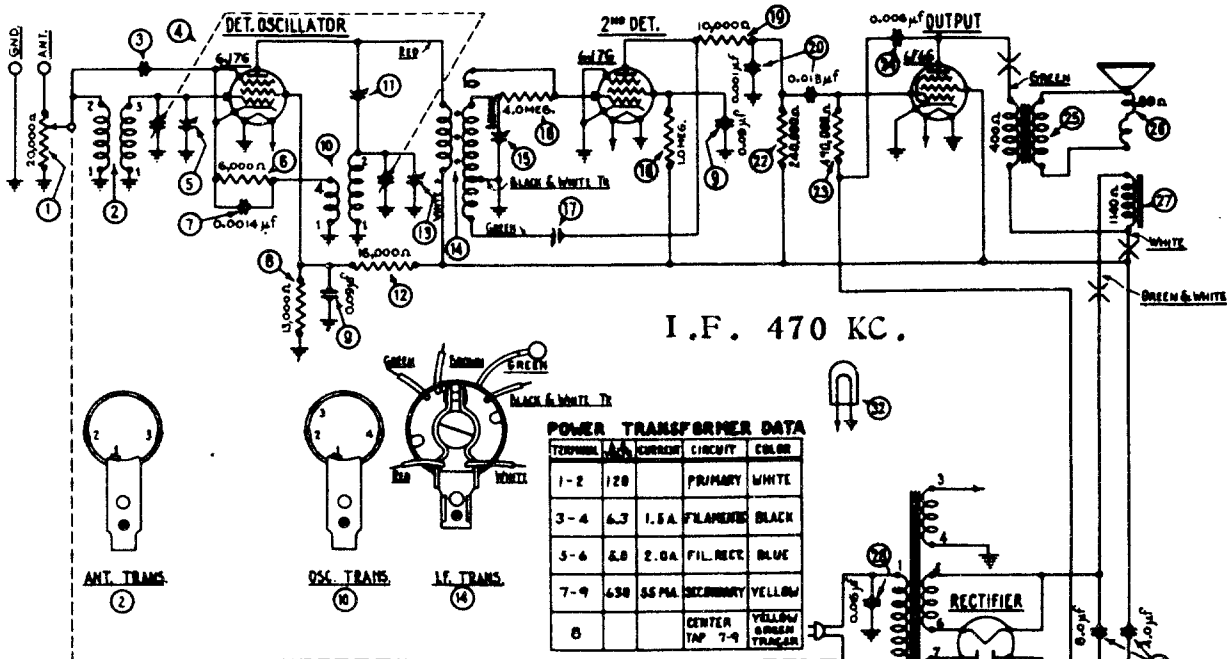


PHILCO

Model 37-38



I.F. 470 KC.



I.F. 470 KC.

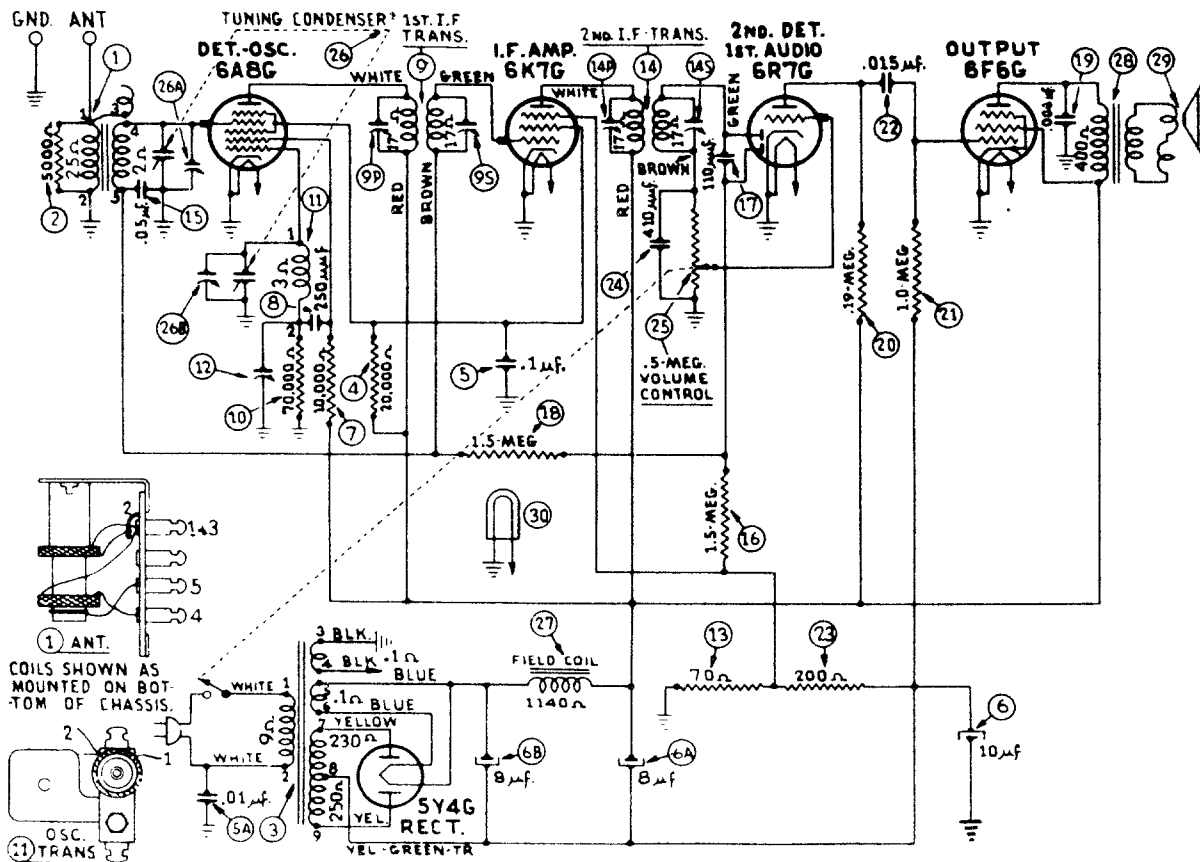
POWER TRANSFORMER DATA

TERMINAL	CURRENT	CIRCUIT	COLOR
1-2	120	PRIMARY	WHITE
3-4	6.3	1.5A. FILAMENTS	BLACK
5-6	6.8	2.0A. FIL. RECT.	BLUE
7-9	630	55 MA. SECONDARY	YELLOW
8		CENTER TAP 7-9	YELLOW GREEN TRACER

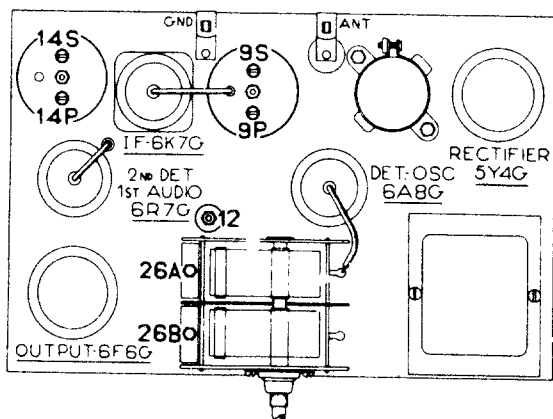
Model 37-84, Code-122

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

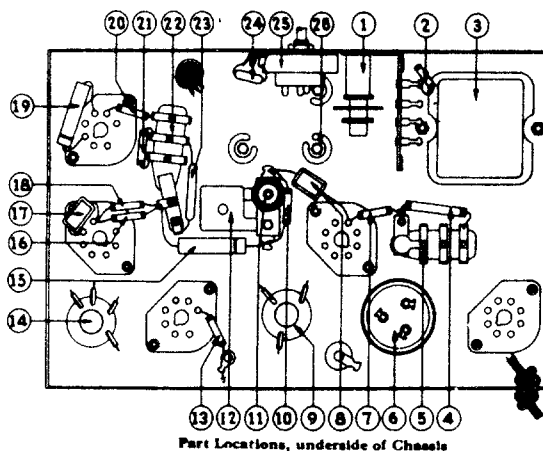
Philco Model 37-93



Schematic Diagram, Model 37-93



Locations of R. F. and I. F. Compensators

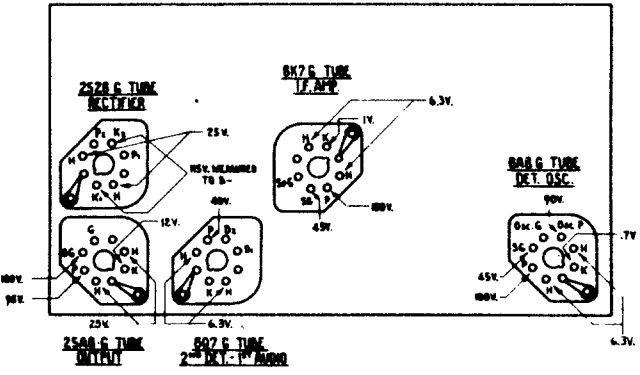
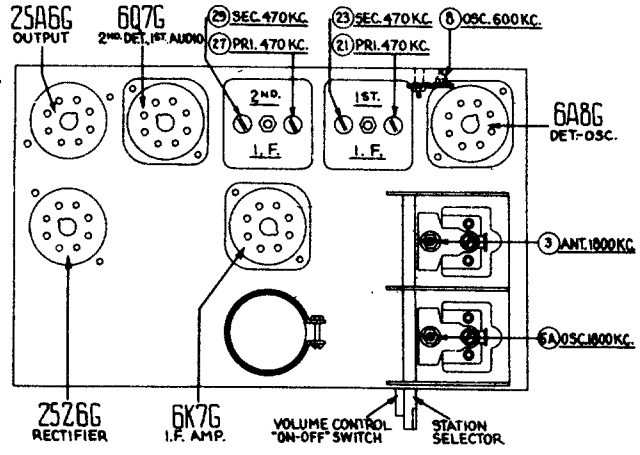
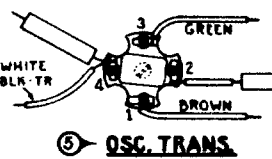
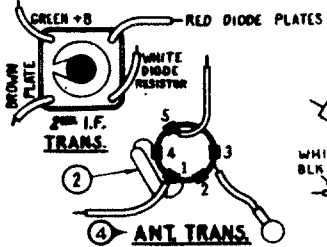
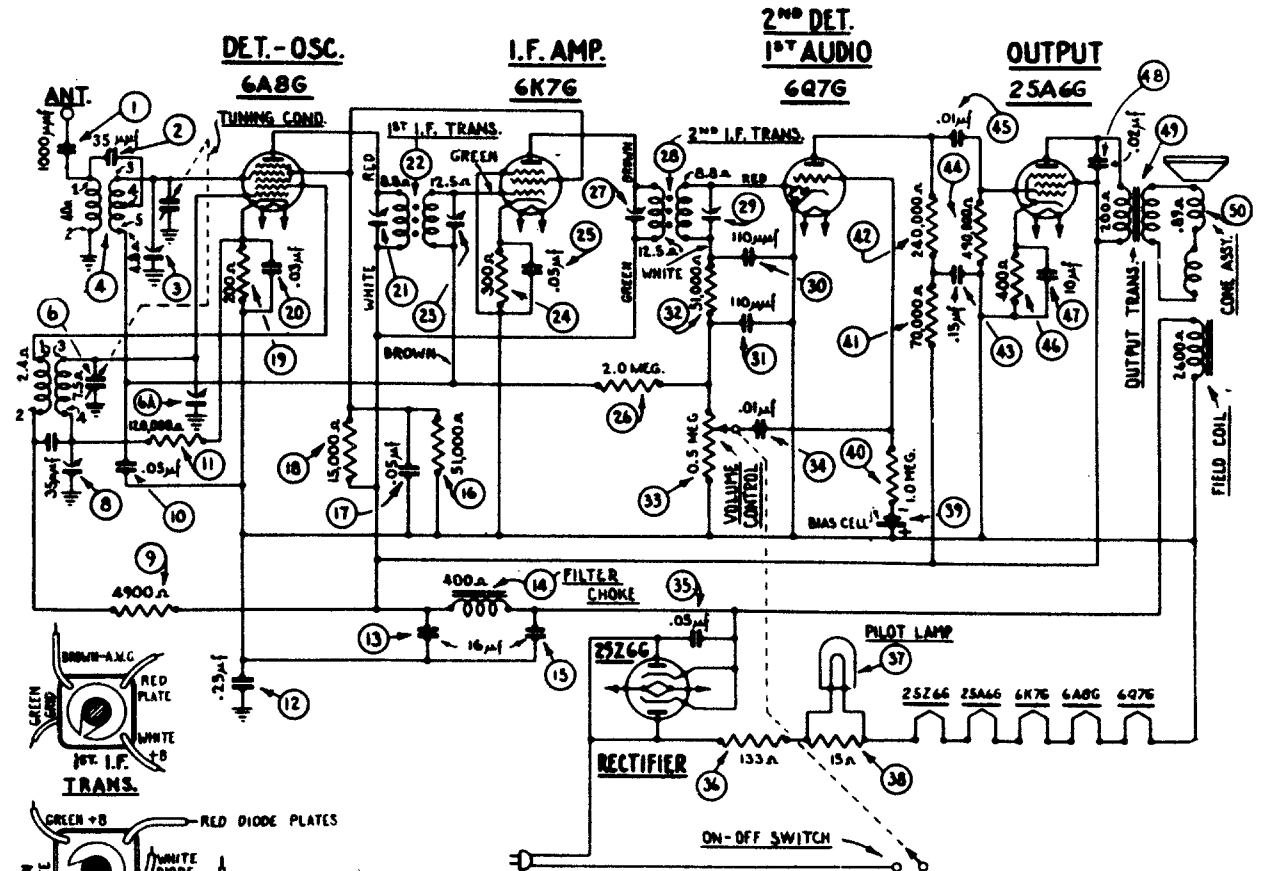


Part Locations, underside of Chassis

I.F. 470 KC.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

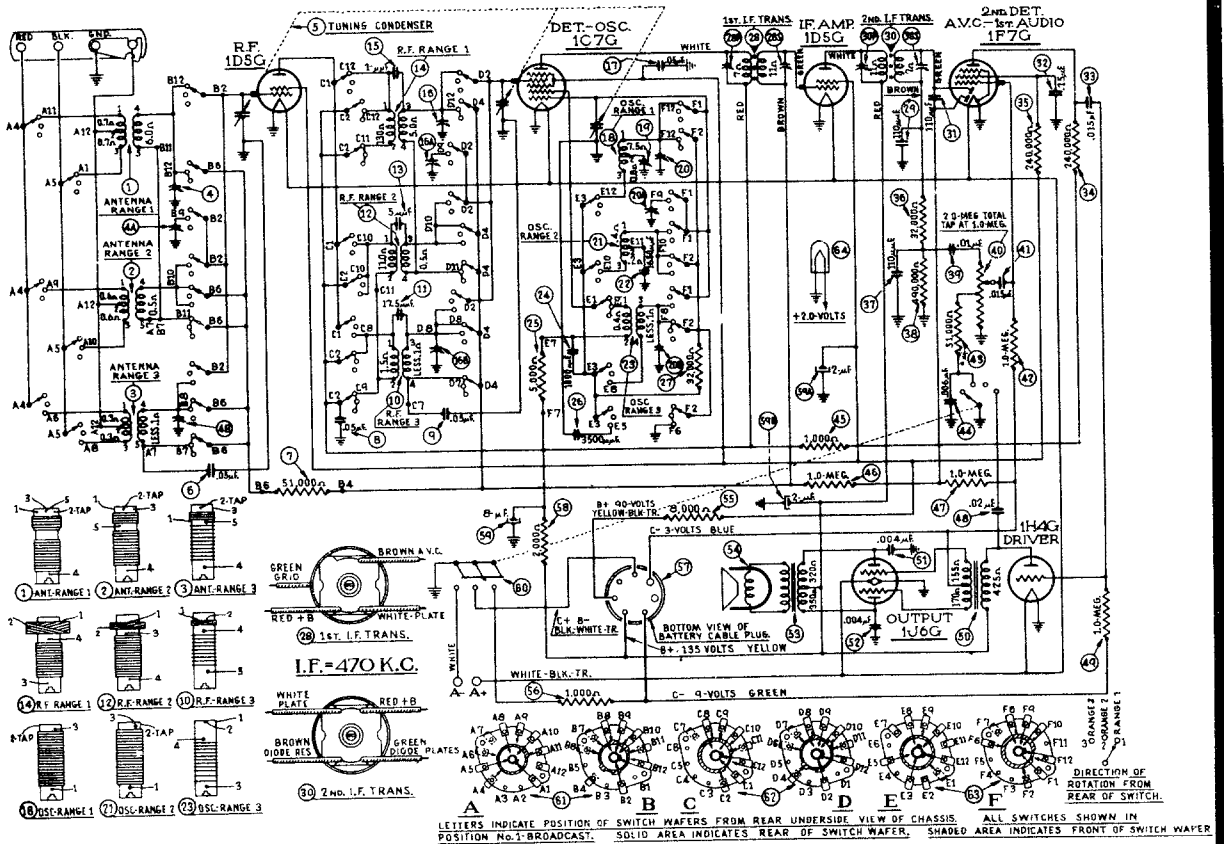
PHILCO Model 37-602



TYPE CIRCUIT: Superheterodyne with pentode output.
POWER SUPPLY: 115 V., 25 or 60 cycle, A. C.; D. C.
TUBES USED: 1 type 6A8G, Osc. Det., 1 type 6K7G I.F. Amplifier, 1 type 6Q7G, 2nd Det. 1st audio, 1 type 25A6G output, 1 type 25Z6G rectifier.
FREQUENCY RANGE: 530--1800 K.C.
INTERMEDIATE FREQUENCY: 470 K.C.
CURRENT CONSUMPTION: 55 watts.
SPEAKER: B-4.
POWER OUTPUT: 3/4 watt.

Tube Sockets as viewed from underside of chassis. (Voltages measured from socket contacts to B—)

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



Philco Radio

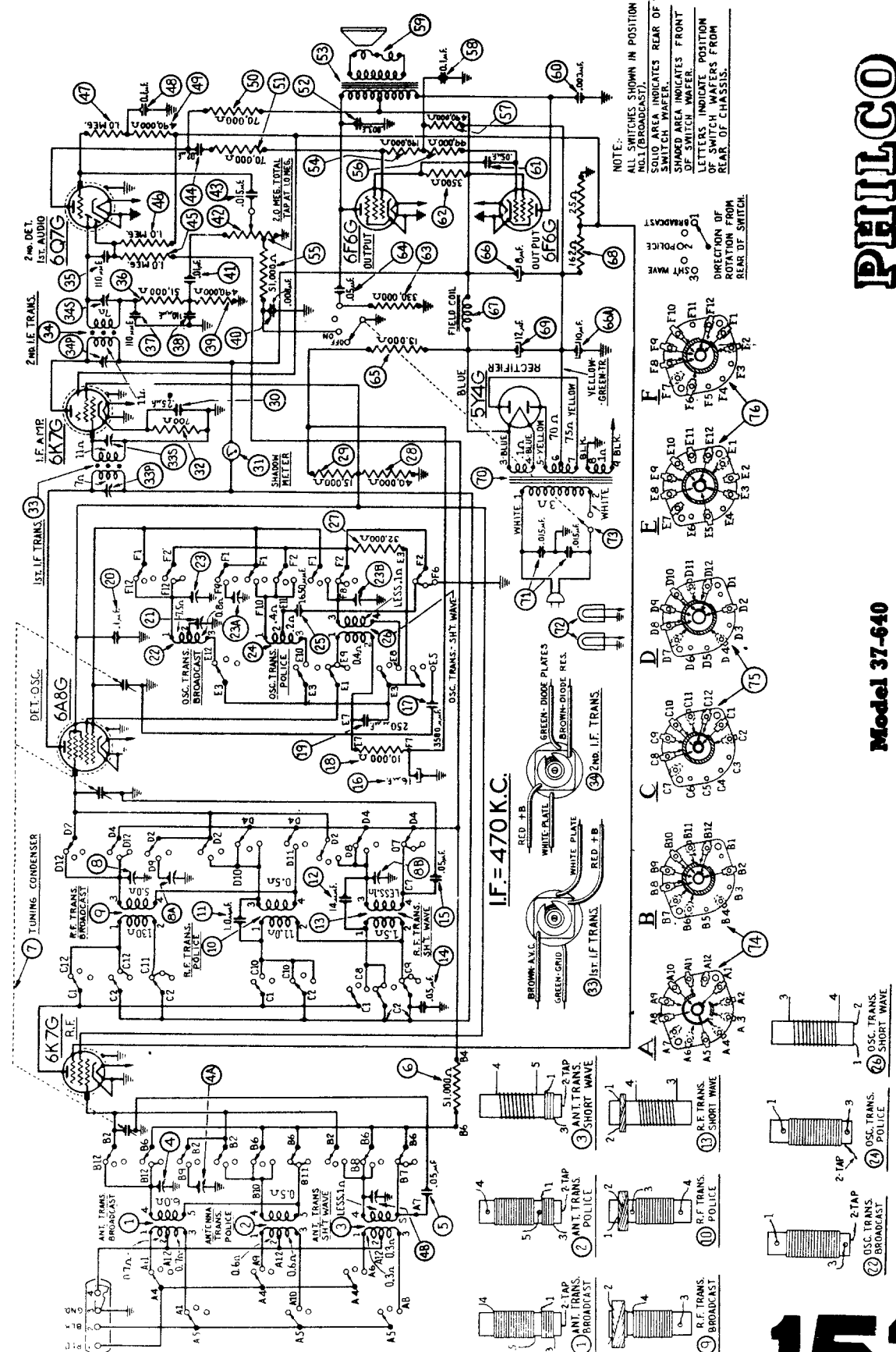
Replacement Parts—Model 37-623

Schem. No.	Description	Part No.	Schem. No.	Description	Part No.	Schem. No.	Description	Part No.
1	Antenna Transformer (530-1720 K.C.)	32-2108	45	Resistor (1,000 ohms, 1/2 watt)	33-210339	19	Spring (Vol. Shaft)	28-4117
2	Antenna Transformer (2.3 to 7.4 M.C.)	32-2119	46	Resistor (1 megohm, 1/2 watt)	33-510339	20	Socket (8 prong)	27-6058
3	Antenna Transformer (7.35 to 22 M.C.)	32-2109	47	Resistor (1 megohm, 1/2 watt)	33-510339	21	Socket (7 prong)	27-6057
4	Compensator (Three Sections)	31-6092	48	Condenser (.02 mfd. Tubular)	30-4119	22	Shield Tube	28-2726
5	Tuning Condenser	31-1818	49	Condenser (.02 mfd. Tubular)	33-510339	23	Base Tube Shield	28-3898
6	Condenser (.05 mfd. Tubular)	30-4020	50	Resistor (1 megohm, 1/2 watt)	32-7637	24	Grommet Mtg. R. F. Unit	27-4317
7	Resistor (51,000 ohms, 1/2 watt)	33-351339	51	Audio Input Transformer	30-4456	25	Sleeve Mtg. R. F. Unit	28-2257
8	Condenser (.05 mfd. Tubular)	30-4020	52	Condenser (.004 mfd. Tubular)	30-4456	26	Screw Mtg. R. F. Unit	W-729
9	Condenser (.05 mfd. Tubular)	30-4020	53	Output Transformer	32-7638	27	Washer Mtg. R. F. Unit	28-3927
10	Condenser (.05 mfd. Tubular)	30-4020	54	Cone and Voice Coil Assembly KR-17	36-3550	28	Washer Mtg. R. F. Unit	27-8359
11	R. F. Transformer (7.35 to 22 M.C.)	32-2126	55	Cone and Voice Coil Assembly HR-12	36-3557	29	Rubber Mtg. Tuning Condenser	27-4325
12	Condenser (17.5 mmfd. Mica)	30-1079	56	Resistor (8,000 ohm, 1/2 watt)	33-280339	30	Mtg. Plate (Trans.)	28-3608
13	R. F. Transformer (2.3 to 7.4 M.C.)	32-2106	57	Resistor (1,000 ohms, 1/2 watt)	33-210339	31	Mtg. Snaecor (Trans.)	27-8228
14	Condenser (5 mmfd. Mica)	32-2105	58	Cable Battery	41-3198	32	Mtg. Screw (Trans.)	W-1635
15	R. F. Transformer (530-1720 K.C.)	38-7878	59	Resistor (2,000 ohms, 1/2 watt)	33-220339	33	Terminal Panel I. F. Unit	38-7703
16	Condenser (Twist wire and lug)	31-1621	60	Power and Tone Control Switch	30-2161	34	Cable Speaker	41-3207
17	Compensator (Three section)	30-4020	61	Electrolytic Condenser (2, 2, 8 mfd.)	42-1207	35	Mtg. Bolt (Chassis)	W-1495
18	Oscillator Transformer (530-1720 K.C.)	32-2120	62	Range Switch (ANT)	42-1200	36	Mtg. Rubbers	5189
19	Compensator (580 K.C.)	31-6056	63	Range Switch (R.F.)	42-1245	37	Mtg. Bushing	27-4360
20	Compensator (Three section)	31-6092		Pilot Lamp Assembly	42-1248	38	Knob	27-4330
21	Oscillator Transformer (2.3 to 7.4 M.C.)	32-2121		Pilot Lamp	38-7875	39	Knob	27-4326
22	Condenser (1650 mmfd.)	31-6096		Mask Arm and Assembly	34-2160	40	Knob	27-4322
23	Oscillator Transformer (7.35 to 22 M.C.)	32-2110		Dial	31-1871	41	"B" Battery	41-8007
24	Condenser (1,000 mmfd. Mica)	30-4453		Dial Hub	27-5214	42	"A" Battery (Wet)	172R
25	Resistor (5,000 ohms, 1/2 watt)	33-250393		Dial Guard	28-7187	43	"A" Battery (Dry)	41-8011
26	Condenser (3,500 mmfd Semifixed)	31-6097		Dial Clamp	28-2837	44	Ballast Lamp	1F1
27	Resistor (32,000 ohms, 1/2 watt)	33-332339		Set Screw	27-8324	45	Bezel Plate and Frame	40-5939
28	First I. F. Transformer	32-1031		Gear (Dial)	W-1641	46	Gasket	27-8311
29	Condenser (110 mmfd. Mica)	32-2102		Thrust Spring	28-7185	47	Glass	27-8298
30	Second I. F. Transformer	30-1041		Thrust Washer	28-3611	48	Ring	28-3967
31	Condenser (110 mmfd. Mica)	30-1041		C Washer	28-3976	49	Screws	W-1644
32	Condenser (.15 mfd. Bakelite)	6287SG		Gear (Drive)	28-3904			
33	Condenser (.015 mfd. Tubular)	30-4226		Mask	31-1854			
34	Resistor (240,000 ohms, 1/2 watt)	33-424339		Mask Arm and Assembly	27-5198			
35	Resistor (240,000 ohms, 1/2 watt)	33-424339		Mask Guide and Lamp Support	31-1940			
36	Resistor (32,000 ohms, 1/2 watt)	33-323339		Shaft Coupling (Mask)	31-1941			
37	Condenser (.110 mmfd. Mica)	30-1031		Felt Washers	27-8399			
38	Resistor (490,000 ohms, 1/2 watt)	33-449339		Washer	27-8318			
39	Condenser (.01 mfd. Tubular)	30-4124		Snap Fastener	28-4279			
40	Volume Control	33-5158		Indicator Bracket and Lens Assembly	38-7912			
41	Condenser (.015 mfd. Tubular)	30-4358		Mask Guide and Lamp Support	31-1941			
42	Resistor (1 megohm, 1/2 watt)	33-510339		Shaft and Index Plate (Range Switch)	3P-7844			
43	Resistor (51,000 ohms, 1/2 watt)	33-351339		Shaft (Volume Control)	42-1173			
44	Condenser (.006 mfd. Tubular)	30-4125		Retaining Clip (Vol. Shaft)	38-8059			
					28-4394			

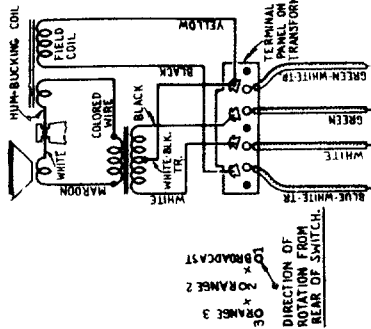
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

PHILCO

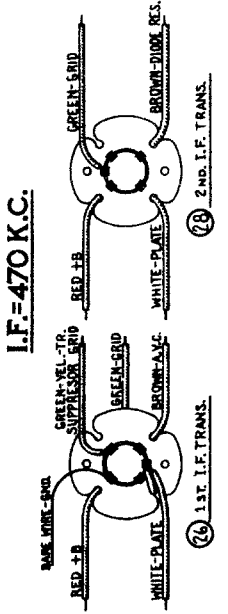
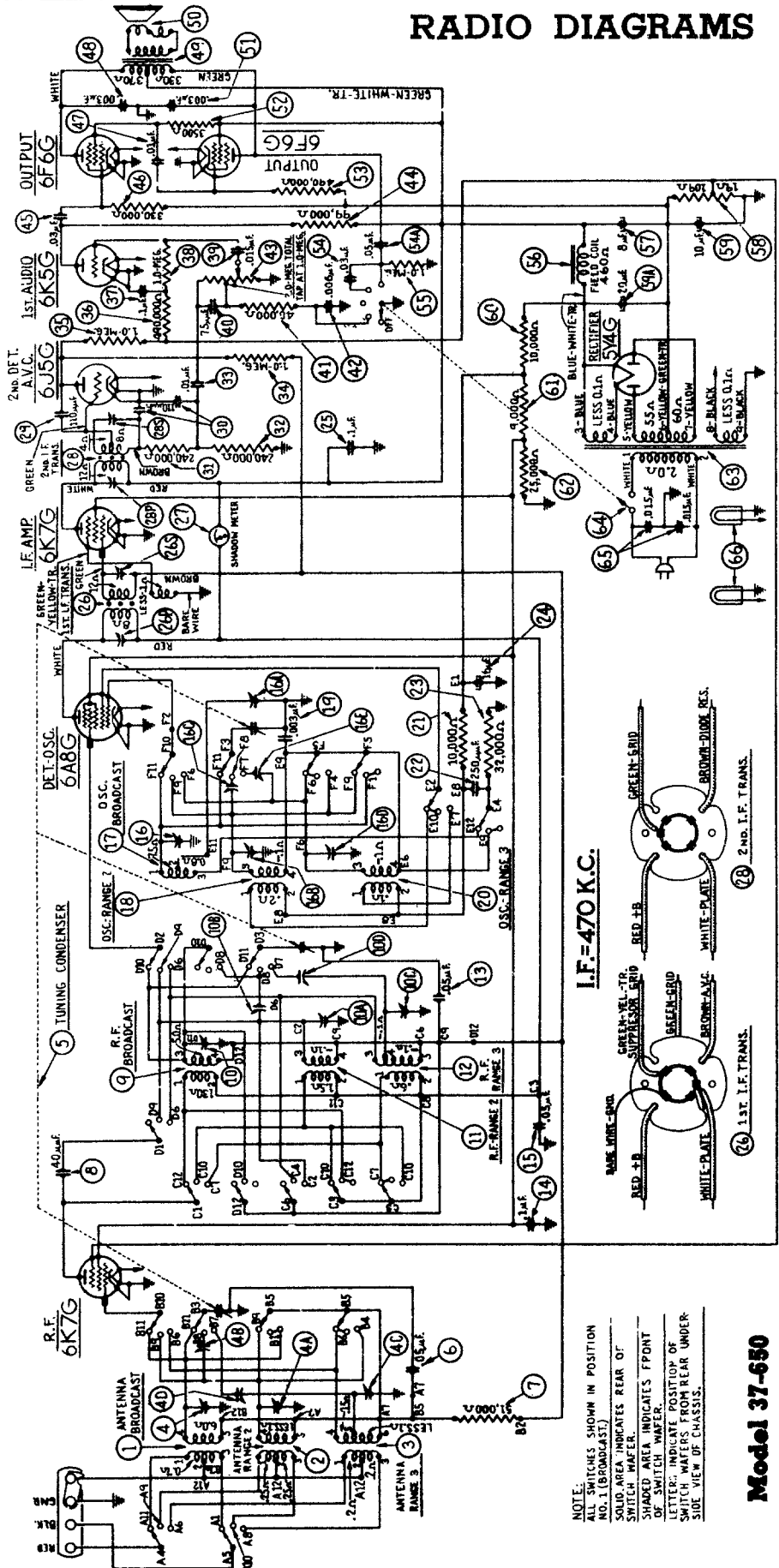
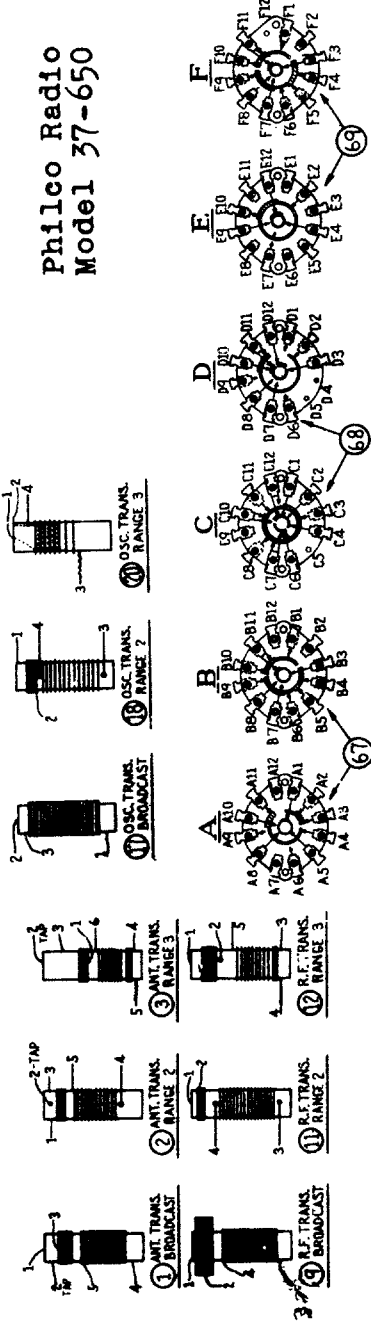
Model 37-640



Philco Radio
Model 37-650

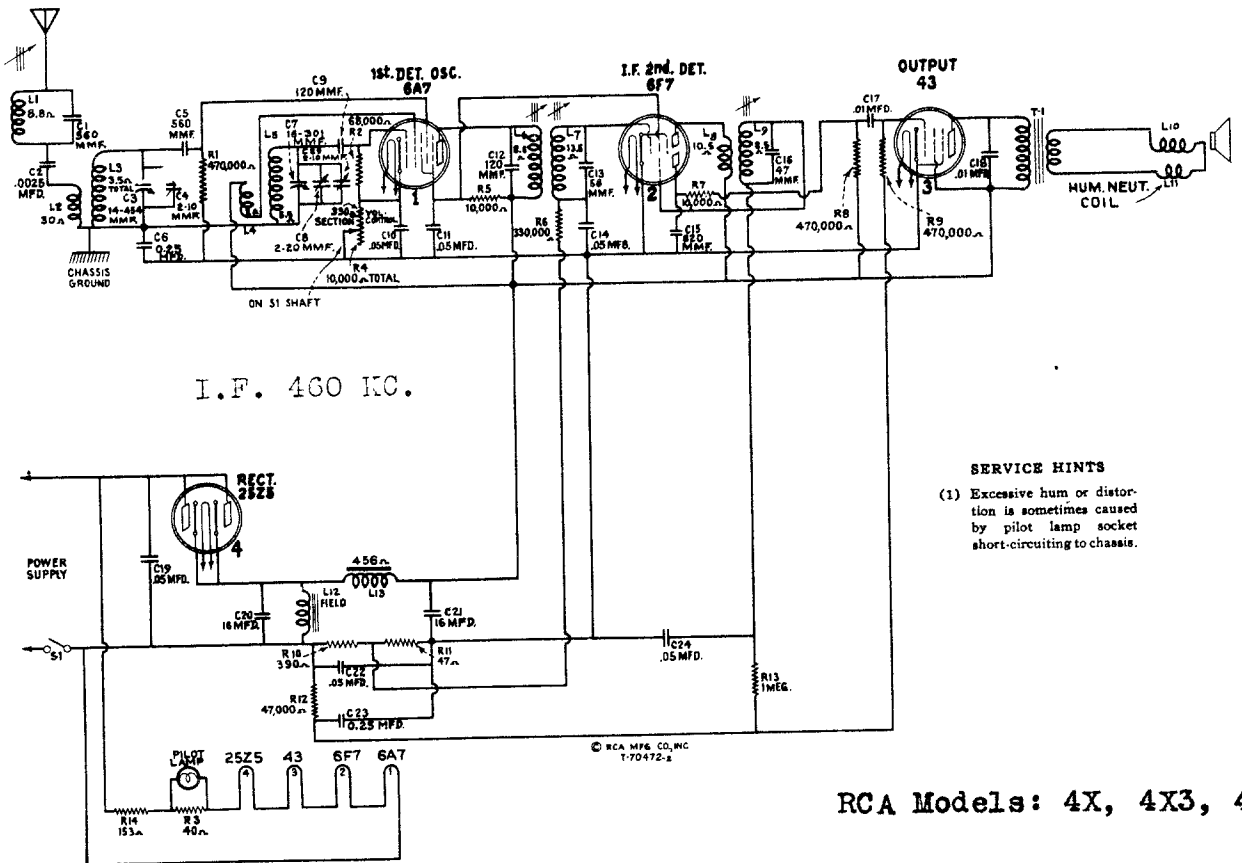


1000 OHM
TERMINAL
TRANSFORMER



NOTE:
ALL SWITCHES SHOWN IN POSITION
NO. 1 (BROADCAST)
SOLID AREA INDICATES REAR OF
SWITCH WAFER.
SHADED AREA INDICATES FRONT
OF SWITCH WAFER.
LETTER: INDICATE POSITION OF
SWITCH WAFERS FROM REAR
SIDE VIEW OF CHASSIS.

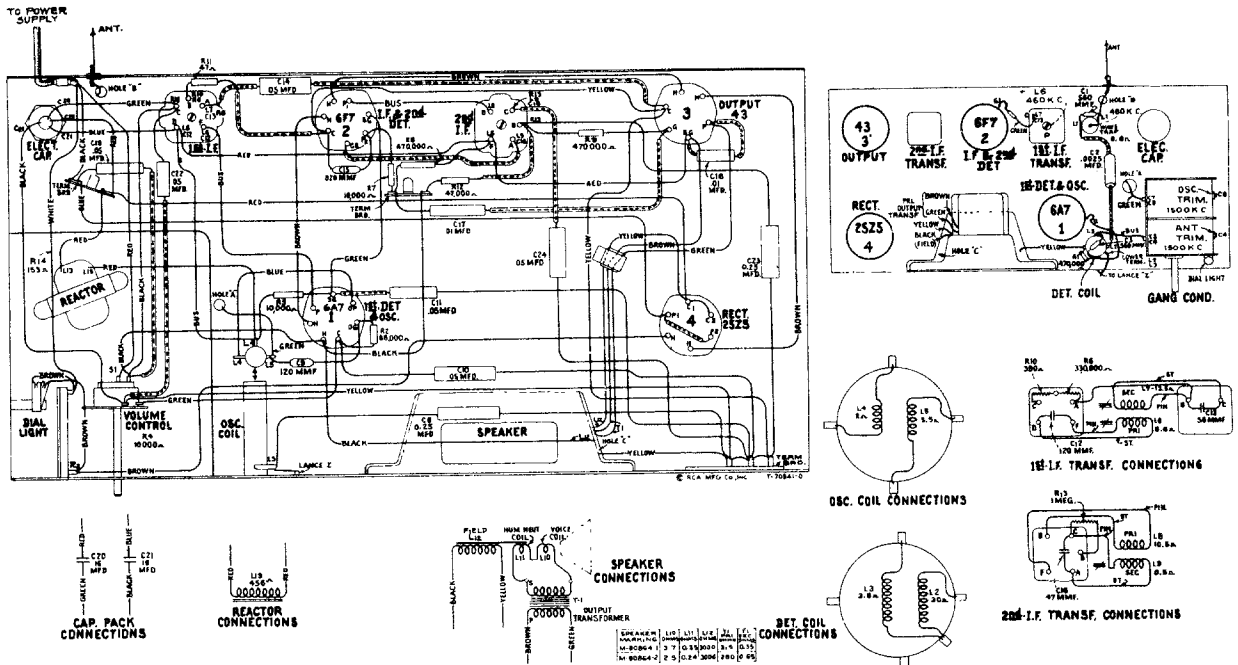
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



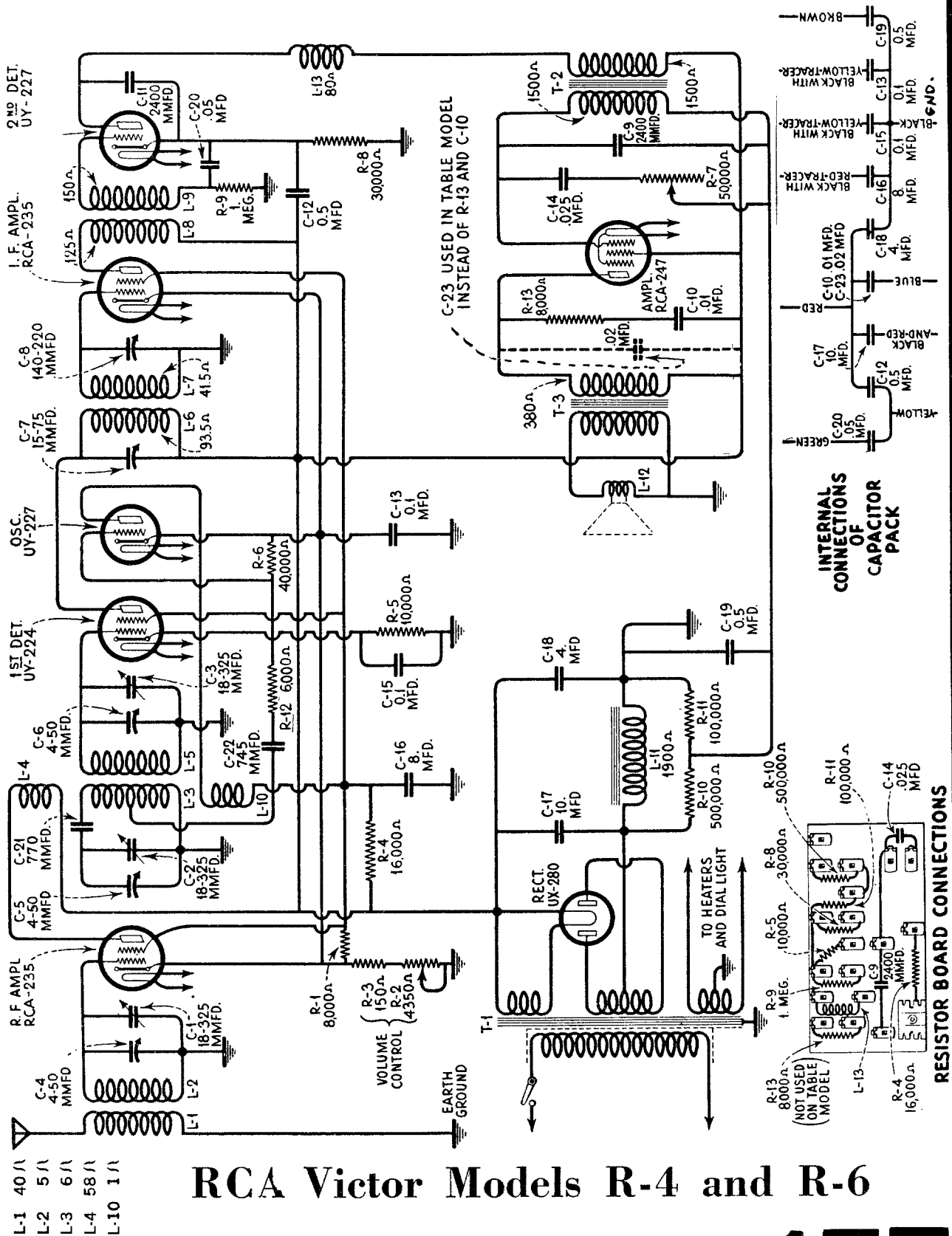
SERVICE HINTS

- (1) Excessive hum or distortion is sometimes caused by pilot lamp socket short-circuiting to chassis.

Schematic Circuit Diagram

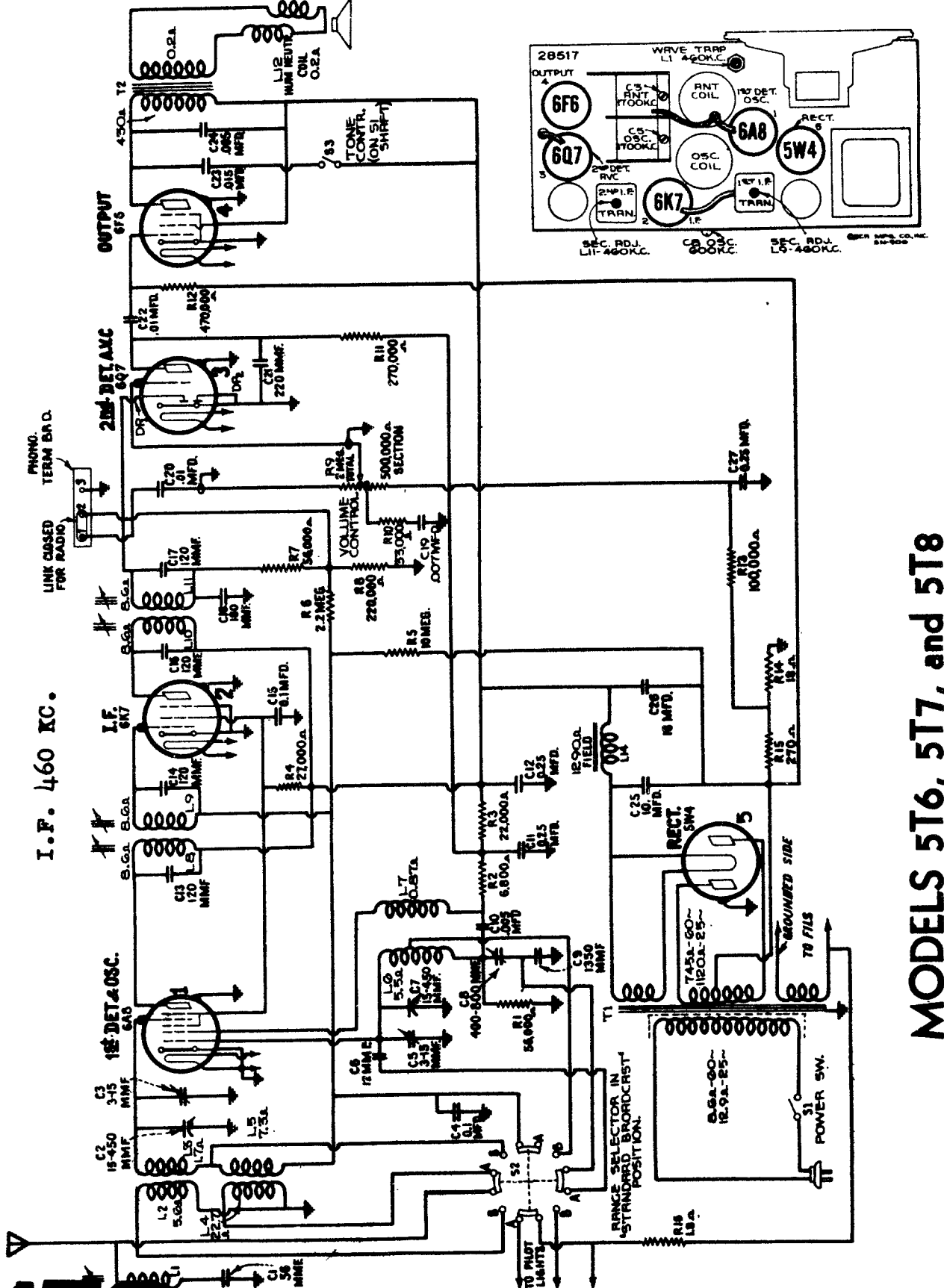


MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



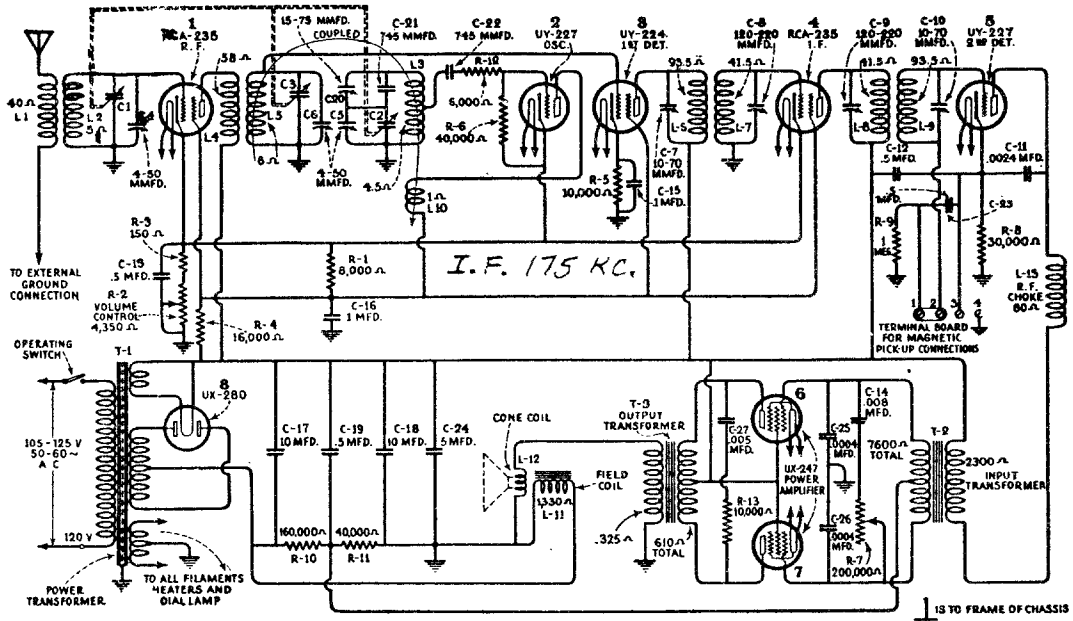
RCA Victor Models R-4 and R-6

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



MODELS 5T6, 5T7, and 5T8

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

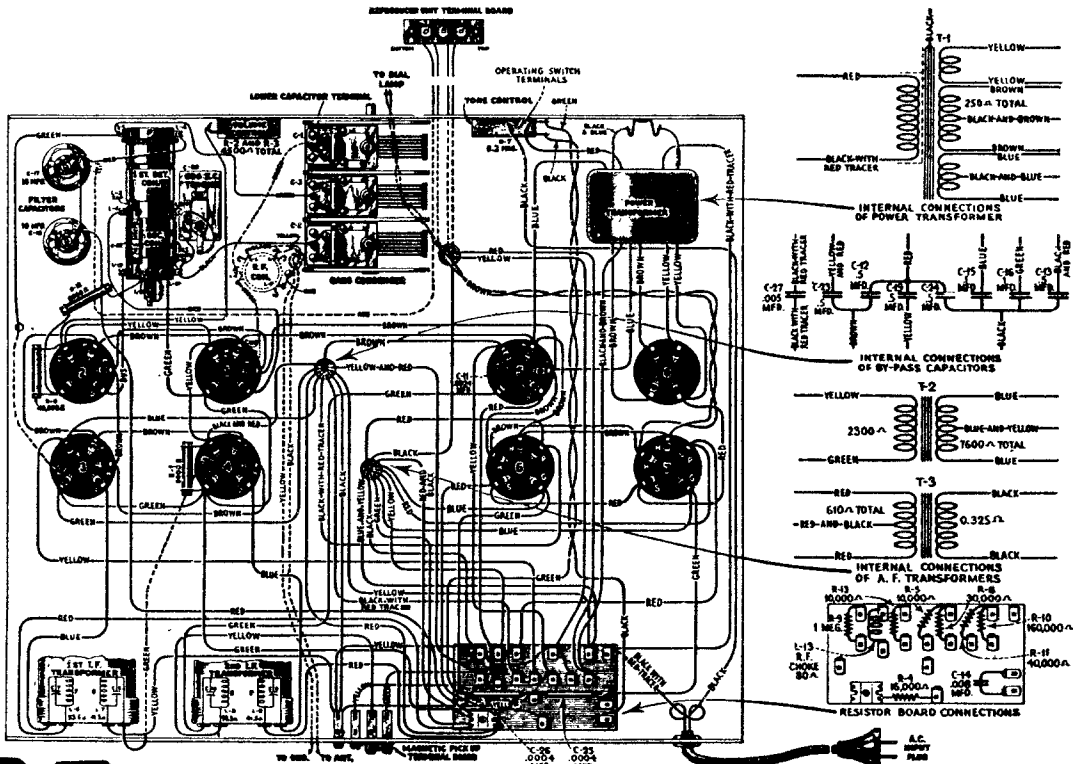


RCA Model R-7A

Schematic Diagram

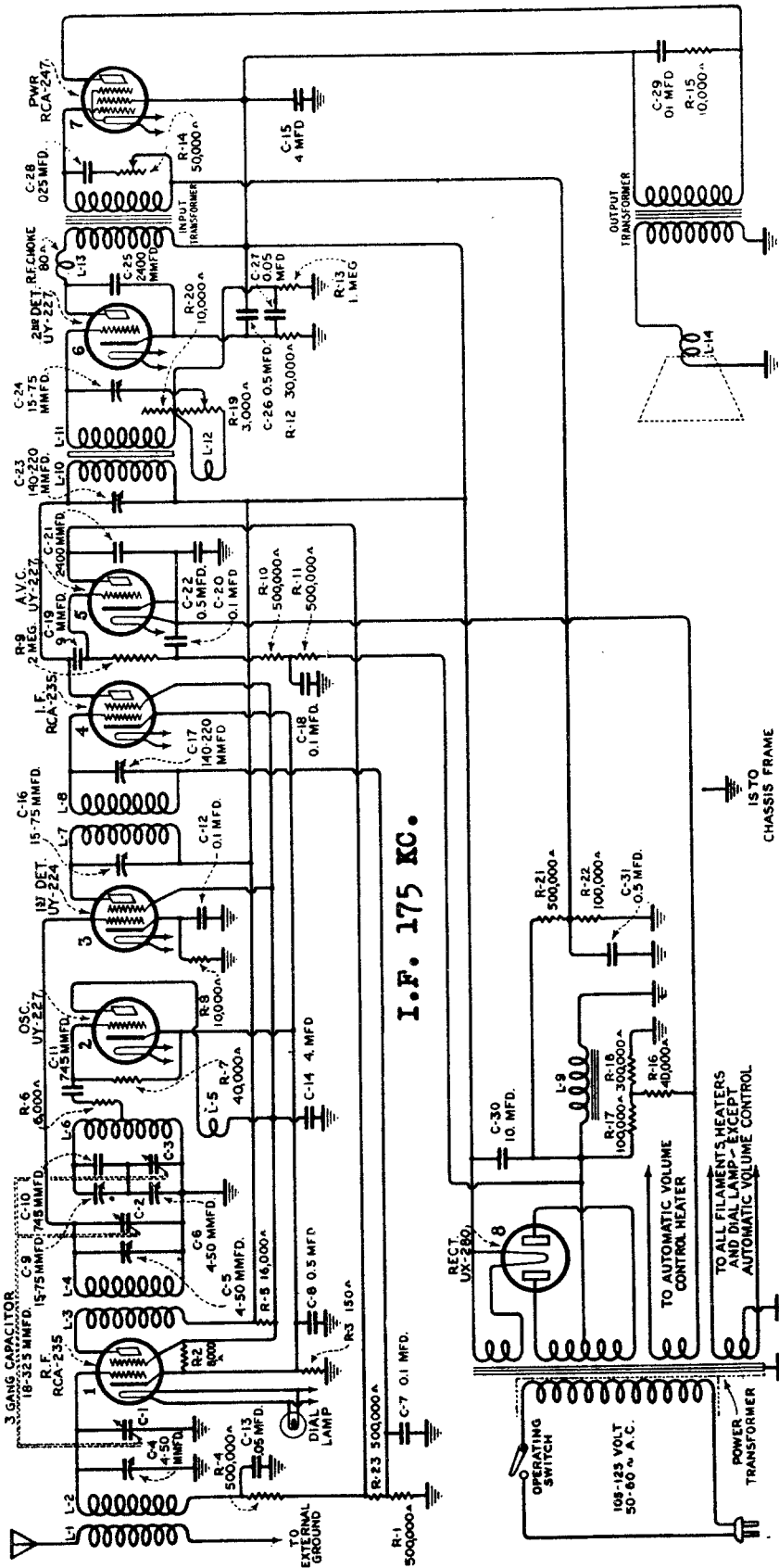
SOCKET VOLTAGES—110 VOLT A. C. LINE

Radiotron No.	Cathode to Heater Volts D. C.	Cathode or Filament to Control Grid Volts D. C.	Cathode to Screen Grid Volts D. C.	Cathode or Filament to Plate Volts D. C.	Plate Current M. A.	Heater or Filament Volts A. C.	Radiotron No.	Cathode to Heater Volts D. C.	Cathode or Filament to Control Grid Volts D. C.	Cathode to Screen Grid Volts D. C.	Cathode or Filament to Plate Volts D. C.	Plate Current M. A.	Heater or Filament Volts A. C.
VOLUME CONTROL AT MINIMUM							VOLUME CONTROL AT MAXIMUM						
1	38	35	50	200	.0	2.2	1	2.0	2.5	60	235	3.5	2.2
2	38	0	—	50	3.5	2.2	2	2.0	0	—	50	4.5	2.2
3	7	6	80	235	0.5	2.2	3	4.0	4.0	55	230	0.5	2.2
4	38	35	50	200	.0	2.2	4	2.0	2.5	58	235	3.5	2.2
5	22	8	—	210	0.7	2.2	5	—	8	—	210	0.7	2.2
6	—	12	225	220	30	2.2	6	—	12	225	220	30	2.2
7	—	12	225	220	30	2.2	7	—	12	225	220	30	2.2



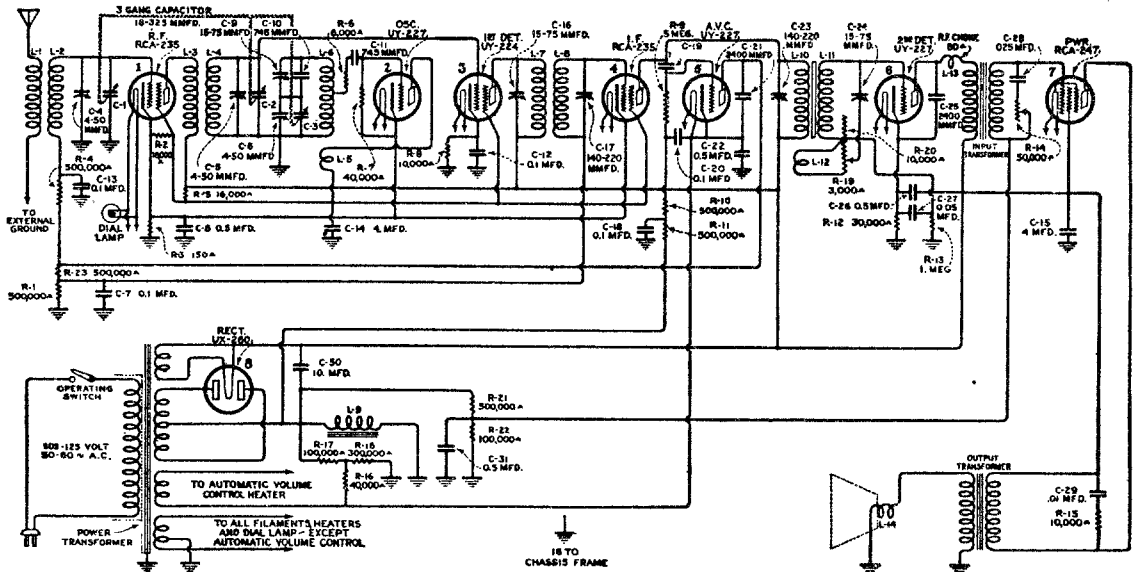
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

RCA Models R-8, R-12 AC



Radiotron No.	Cathode to Heater Volts, D. C.	Cathode to Filament to Control Grid Volts, D. C.	Cathode or Filament to Screen Grid Volts, D. C.	Cathode or Filament to Plate Volts, D. C.	Plate Current M. A.	Screen Current M. A.	Heater or Filament Volts, A. C.
1. R. F.	4.0	0.5	70	260	4.0	0.5	2.66
2. Osc.	4.0	0	—	65	6.0	—	2.66
3. 1st Det.	7.0	6.0	70	260	0.75	0.1	2.66
4. I. F.	4.0	4.0	70	260	4.0	0.5	2.66
5. 2nd Det.	28.0	10.0	—	250	1.0	—	2.66
6. A. V. C.	0	0	—	25	0	—	2.66
7. Power	—	10.0	290	280	35.0	—	2.66

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

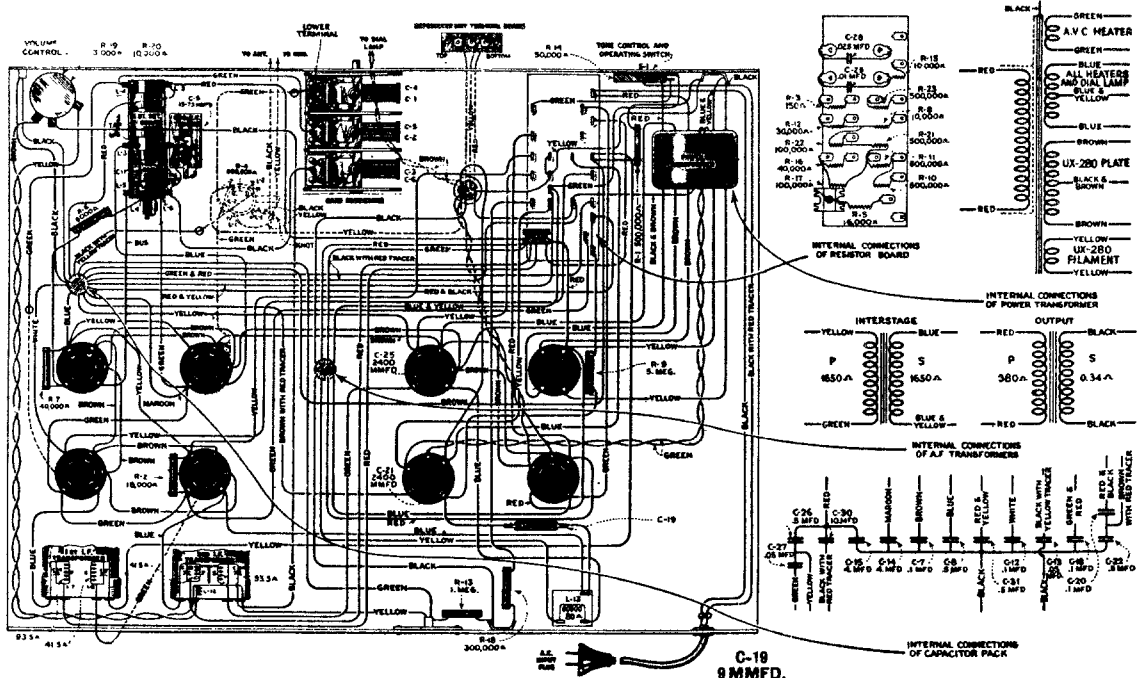


RCA Victor Schematic Wiring Diagram R-10

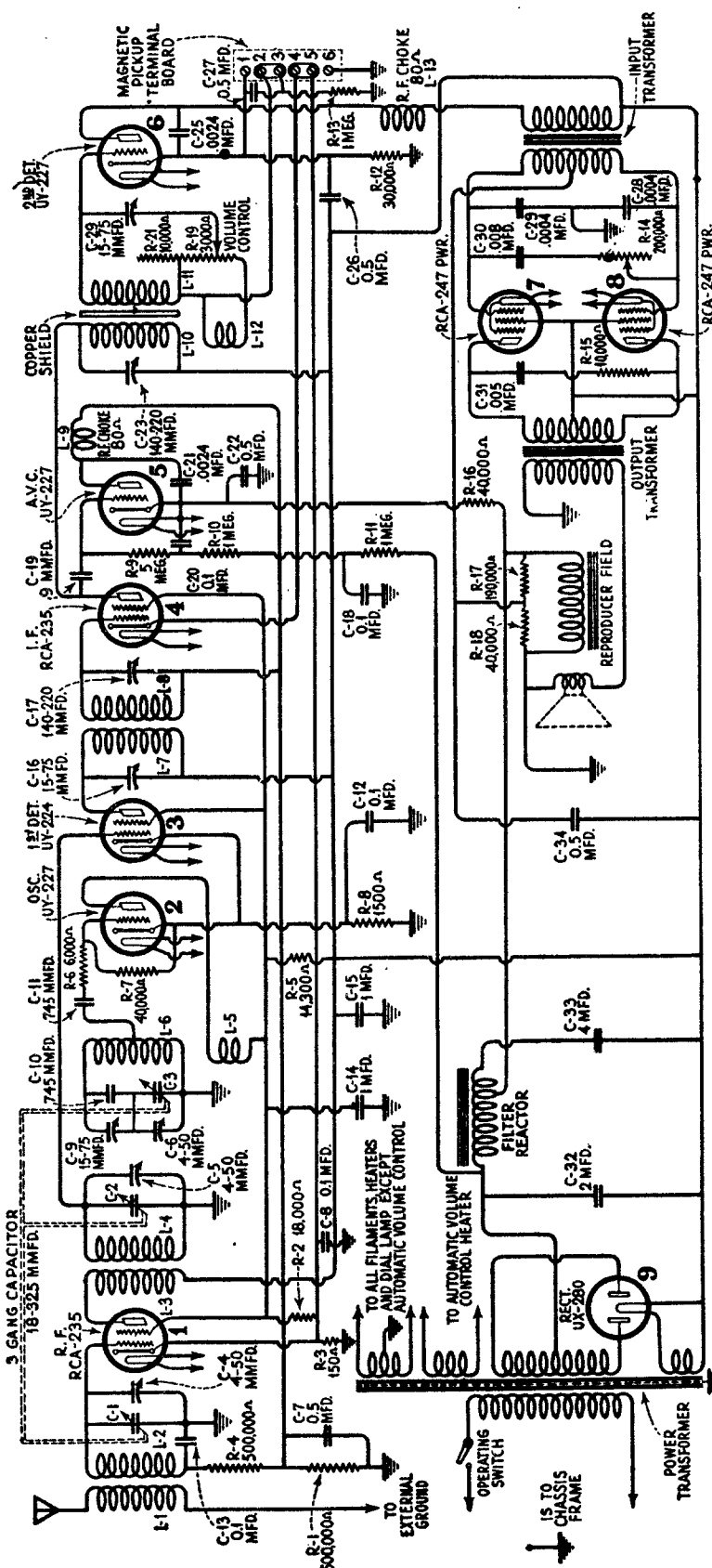
I.F. 175 KC.

Radiotron No.	Cathode to Heater Volts, D. C.	Cathode or Filament to Control Grid Volts, D. C.	Cathode or Filament to Screen Grid Volts, D. C.	Cathode or Filament to Plate Volts, D. C.	Plate Current M. A.	Screen Current M. A.	Heater or Filament Volts, A. C.
1	2	*0.1	75	210	5.0	0.5	2.2
2	8	0	—	60	5.0	—	2.2
3	7	7.0	70	205	0.5	0.1	2.2
4	2	*0.1	75	210	5.0	0.5	2.2
5	0	0	—	30	0	—	2.2
6	20	*8.0	—	185	0.5	—	2.2
7	—	10	210	210	25	—	2.2

*Not true reading due to resistance in circuit.



MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

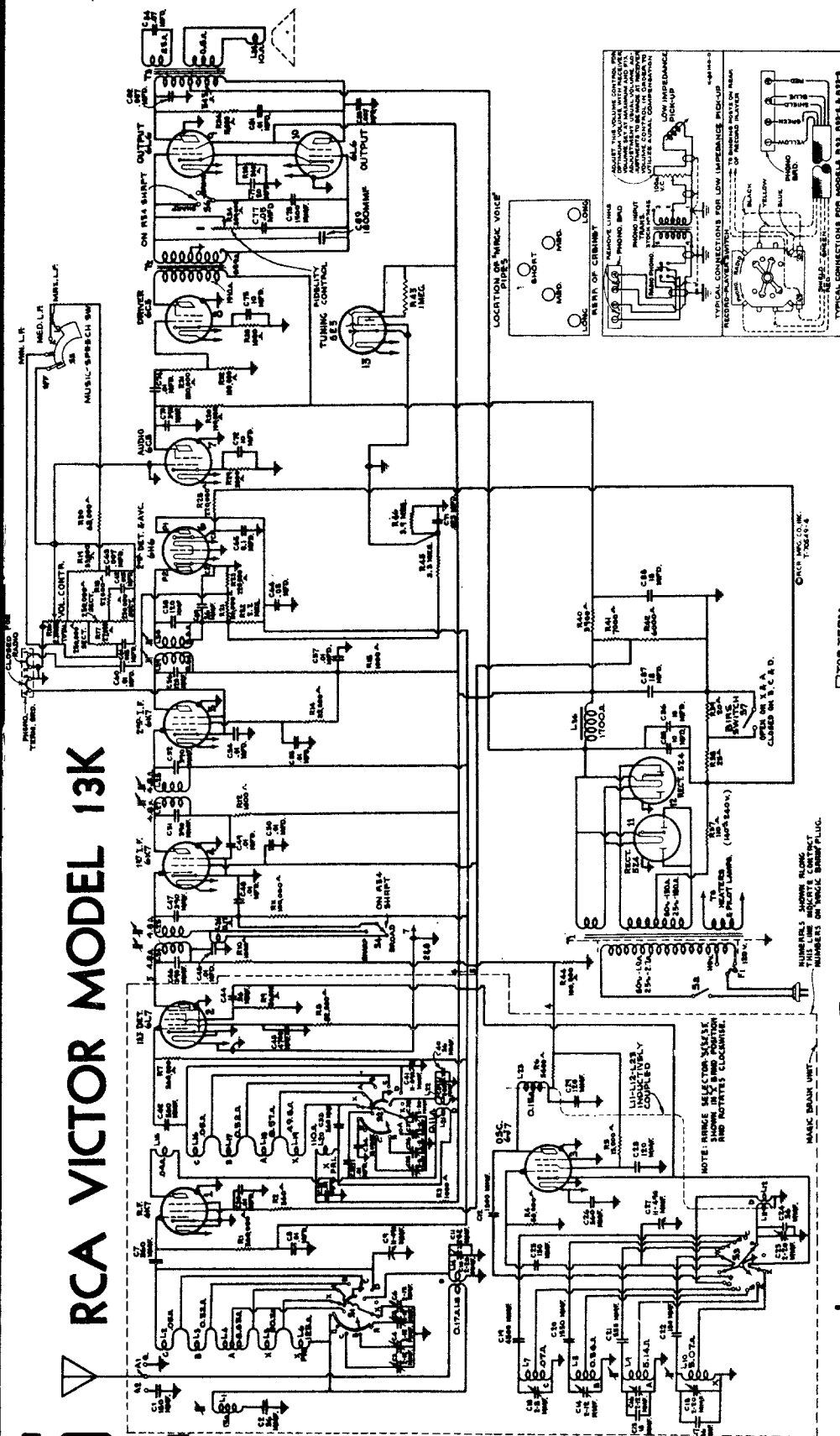


R.C.A. Schematic Circuit Diagram of Model R-11 I.F. 175 KC.

Radiotron No.	Cathode to Heater Volts D. C.	Cathode or Filament to Control Grid Volts, D. C.	Cathode or Filament to Screen Grid Volts, D. C.	Plate Current M. A.	Screen Current M. A.	Heater or Filament Volts, A. C.
1	2	*0.1	75	5.0	0.5	2.2
2	8	0	—	5.0	—	2.2
3	7	7.0	70	0.5	0.1	2.2
4	2	*0.1	75	5.0	0.5	2.2
5	0	0	—	0	—	2.2
6	20	*8.0	—	0.5	—	2.2
7	—	10	210	25	—	2.2
8	—	10	205	25	—	2.2

* Not true reading due to resistance in circuit.

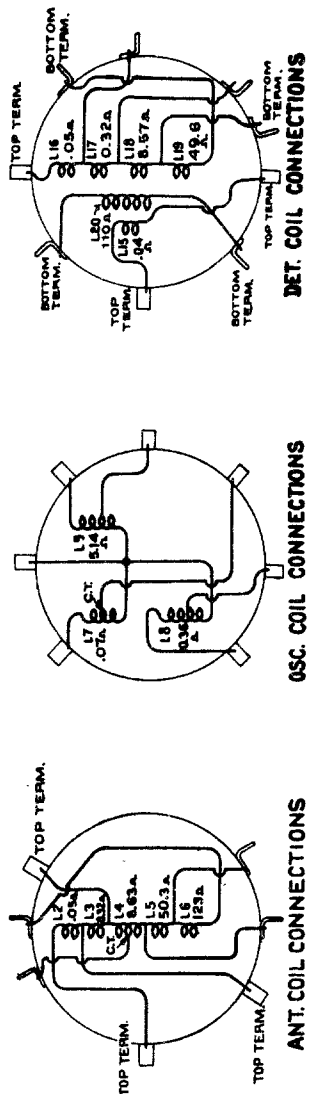
RCA VICTOR MODEL 13K



I.F. 460 KC.

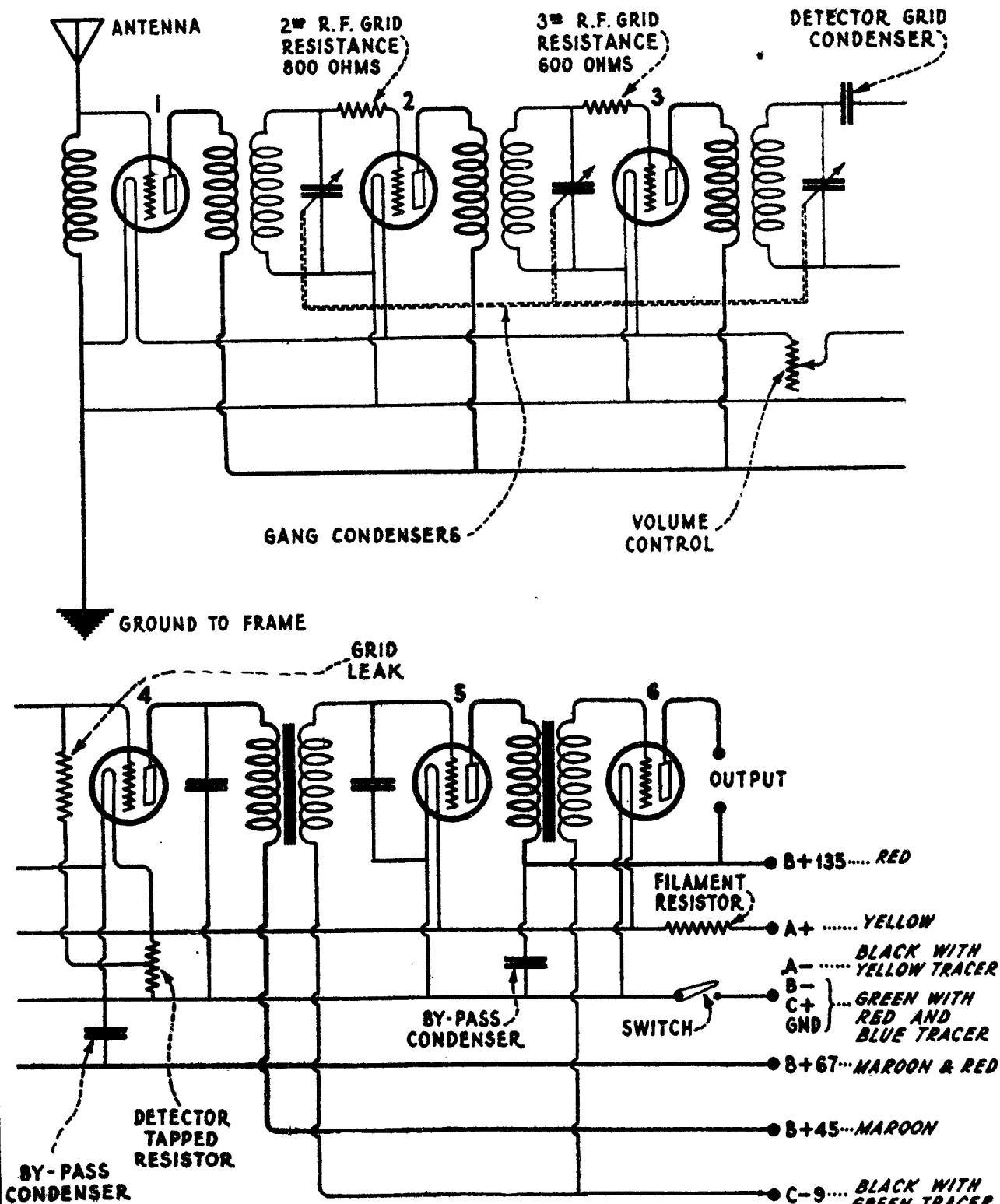
SERVICE HINTS

- (1) Excessive heating of the 6E5 tube may be due to high cathode current—in excess of 7 ma. The tube should be replaced and the condition of the 5Z4 rectifier checked.
- (2) Low sensitivity or intermittent operation may be caused by C-43 or C-53 developing low-resistance leakage. Check both capacitors and replace if found defective.
- (3) Low sensitivity around 15—16 megacycles may be caused by dirty or poor contact of grounding contact finger on S-3.
- (4) Motorboating may be due to intermittent capacitor Stock No. 13025.

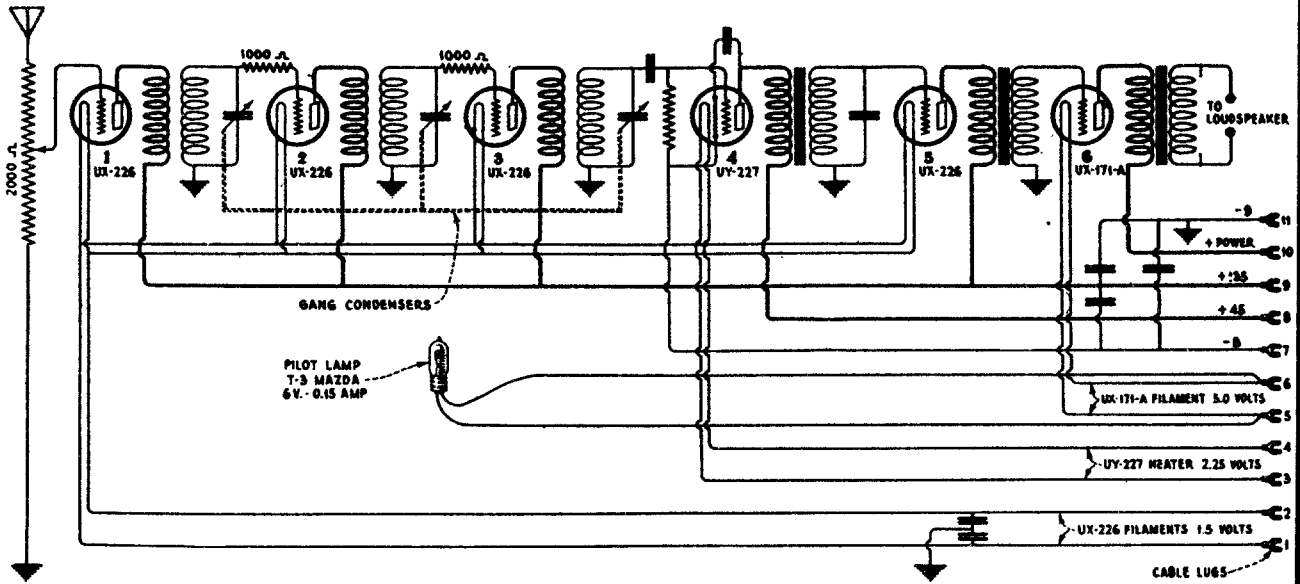


MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

RCA RADIOLA 16

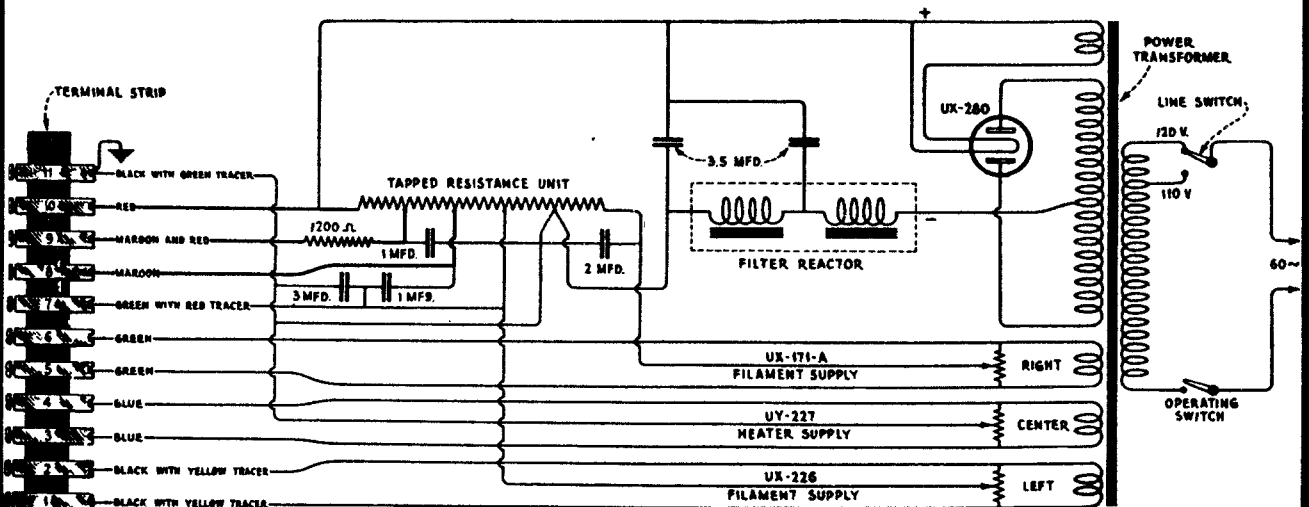


RCA RADIOLA 17



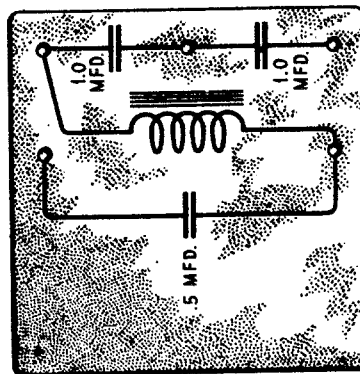
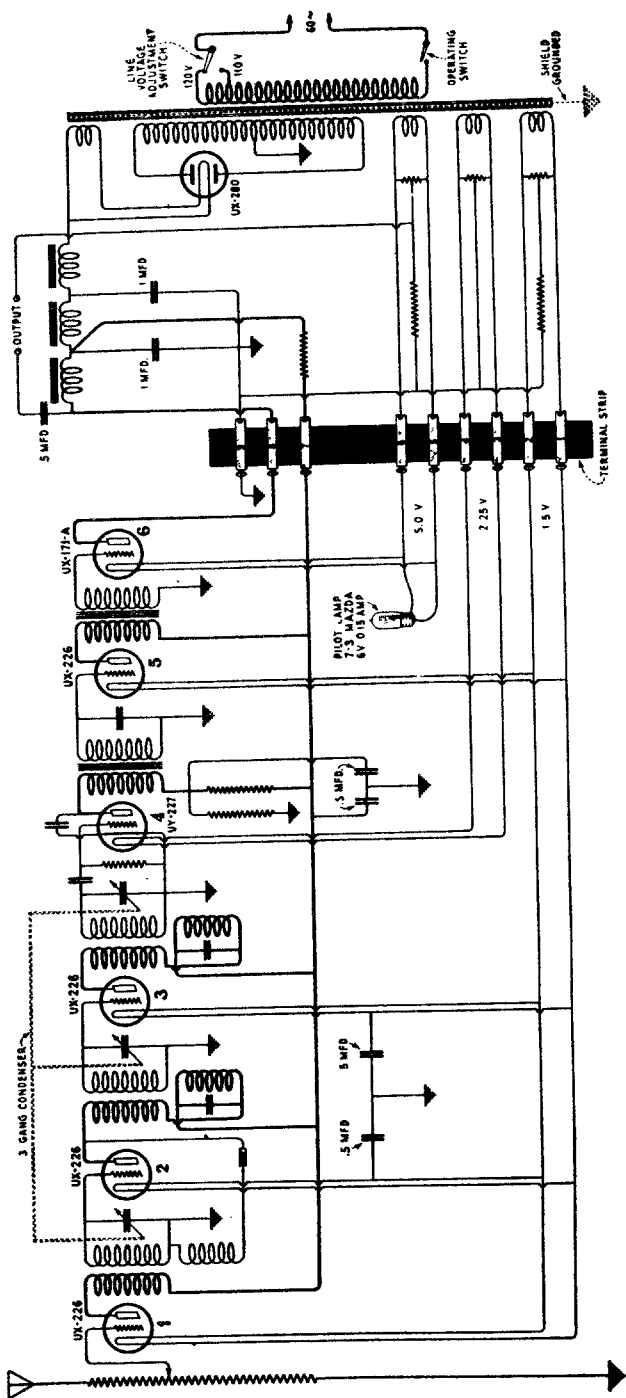
Schematic circuit diagram of receiver assembly.

Indication	Cause	Remedy
No signals	Defective operating switch Loose volume control arm Defective power cable Defective R.F. transformer Defective A.F. transformer Defective By-pass condenser Defective socket power unit	Repair or replace switch Tighten volume control arm Replace power cable Replace R.F. transformer assembly Replace A.F. transformer assembly Replace By-pass condenser Check socket power unit by means of continuity test and make any repairs or replacements necessary

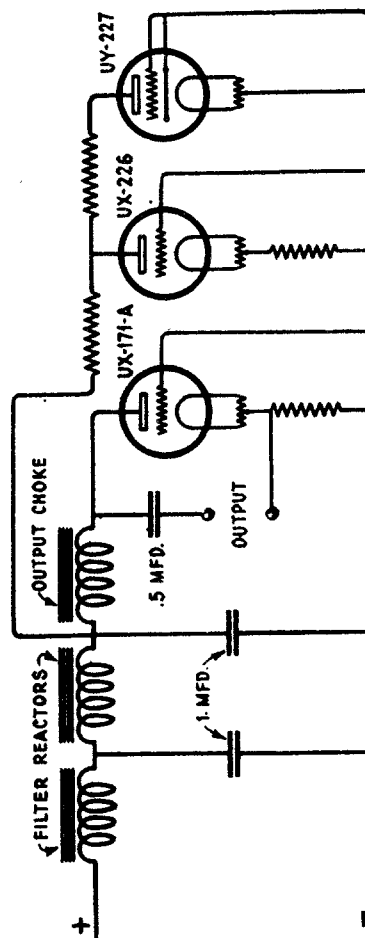


RCA RADIOLA 18

(105-125 Volts, 50-60 Cycle A.C.)

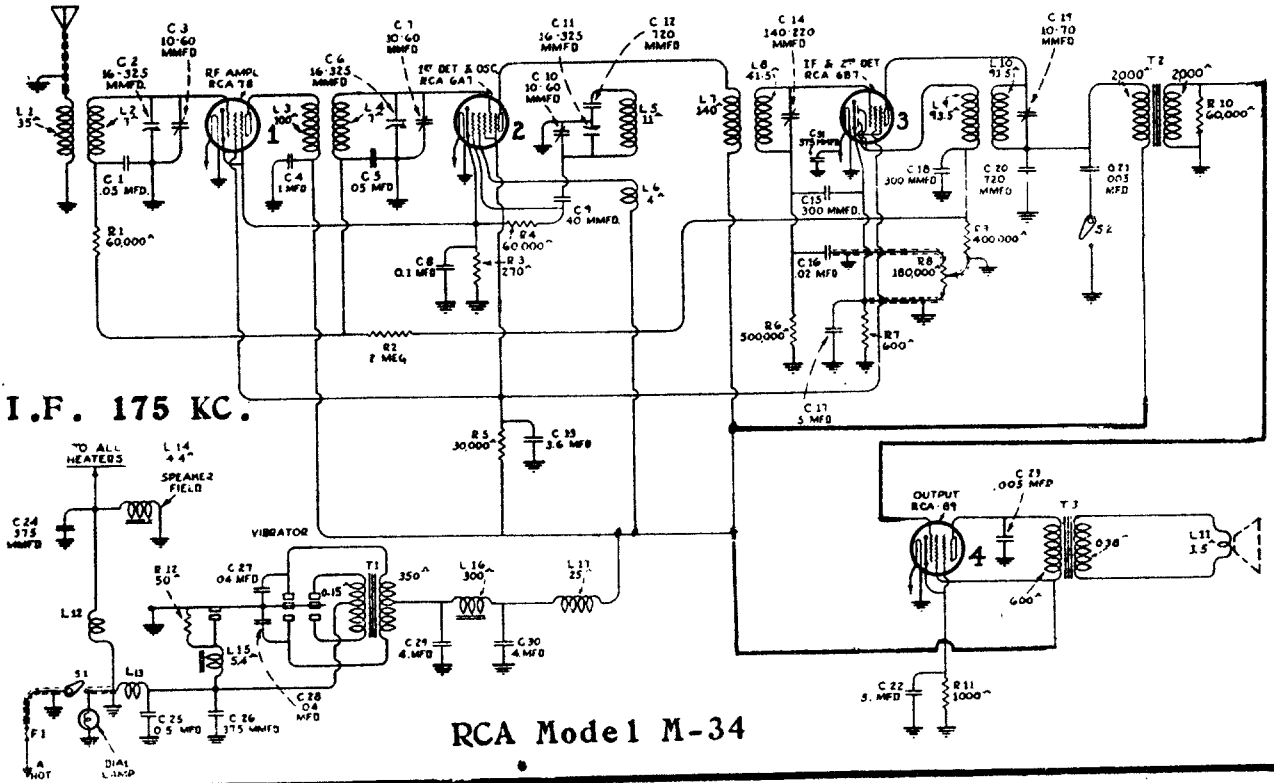


Internal connections of condensers.



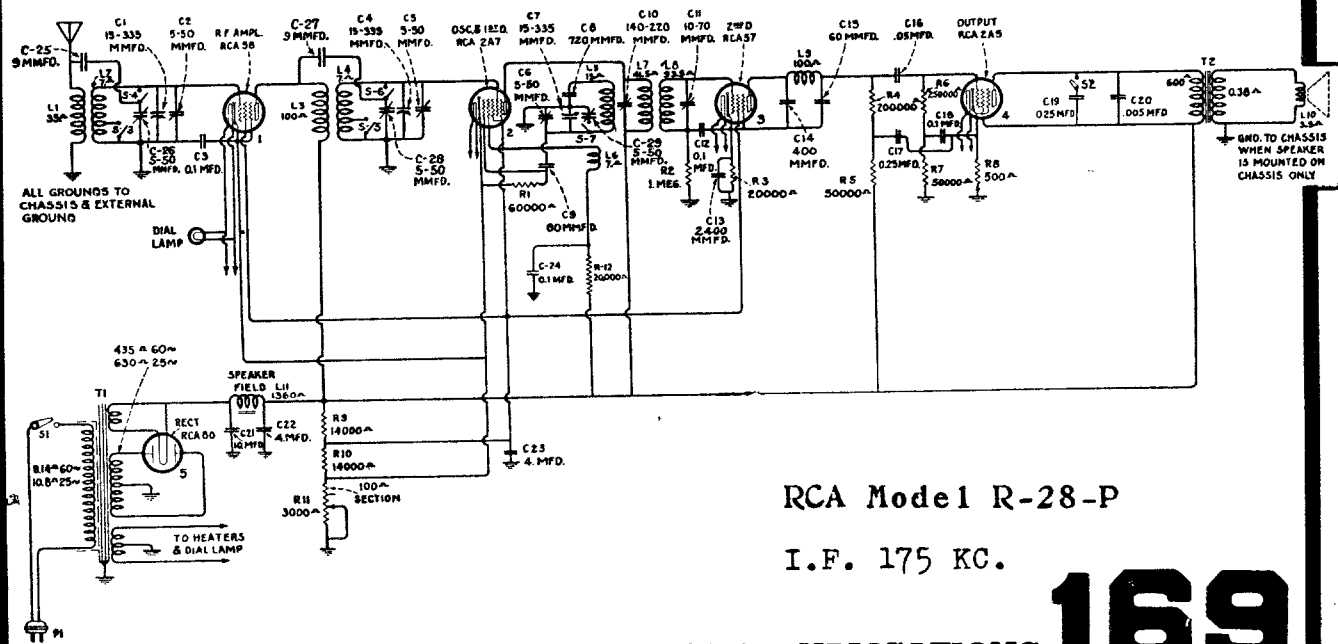
Schematic circuit illustrating method of obtaining grid and plate voltages.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



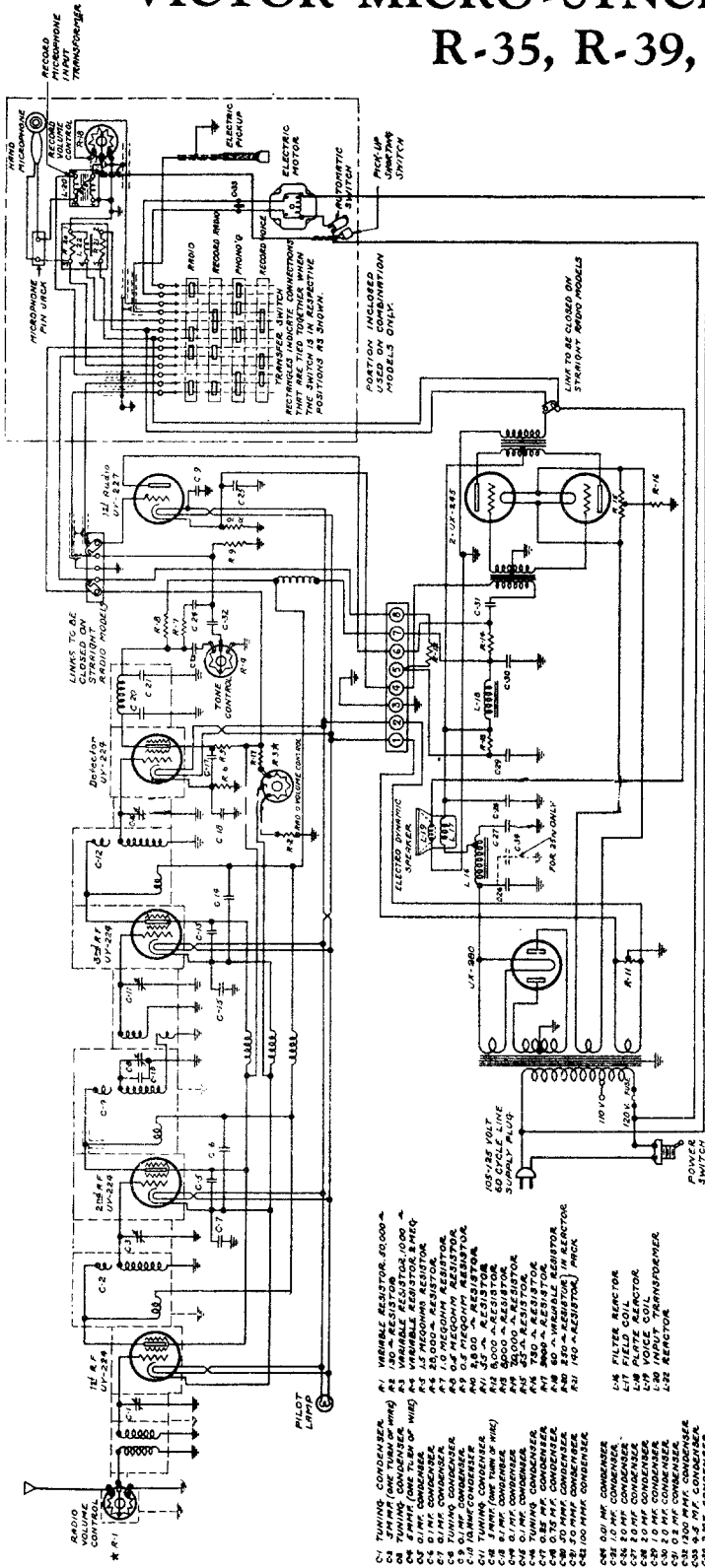
MAXIMUM VOLUME CONTROL SETTING—NO SIGNAL

Radiotron No.	Cathode to Control Grid, Volts	Cathode to Screen Grid, Volts	Cathode to Plate, Volts	Plate Current, M. A.	Heater Volts
1. RCA-58 R. F. Amplifier	3.0	95	250	5.0	2.33
2. RCA-2A7 First Detector Oscillator	3.0	95	250	3.0	2.33
3. RCA-57 Second Detector	6.0	89	170	0.3	2.33
4. RCA-2A5 Power Amplifier	18.0	235	220	32.0	2.33
5. RCA-80 Rectifier					2.33
275 Volts PLATE TO PLATE—60 M. A. TOTAL					4.82
TOTAL CATHODE CURRENT—11 M. A.					

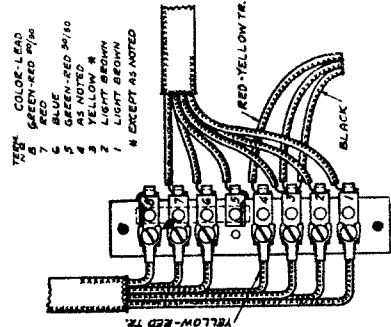


MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

VICTOR MICRO-SYNCHRONOUS RADIO R-35, R-39, RE-57



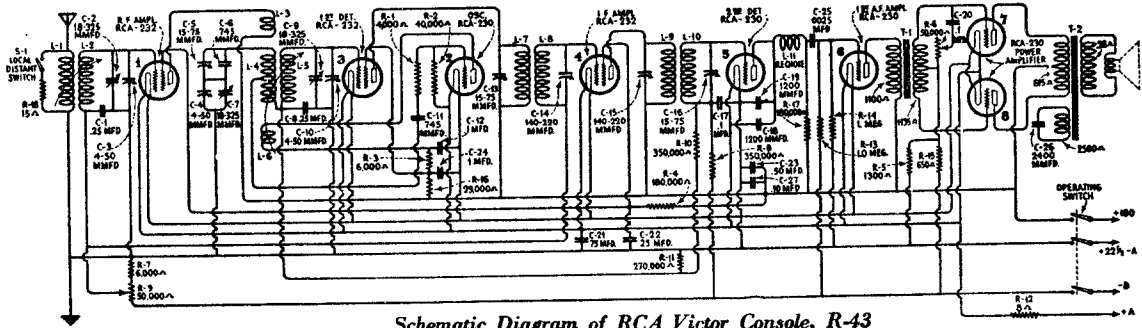
Schematic Wiring Diagram Victor Micro-Synchronous Radio, Models R-35, R-39, and RE-57.



Top View of Amplifier Terminal Strip.

TEST BETWEEN TERMINALS	PART	APPROXIMATE VOLTAGE (10 V SCALE)	APPROXIMATE RESISTANCE (OHMMETER)
F and 7 of Terminal Board	Tapped Choke	8.4 Volts	300 Ohms
4 and 6 of Terminal Board	Speaker Field	7.2 Volts	1,500 Ohms
Brown-Gray Resistor	8000 Ohm Resistor	3.4 Volts	8,000 Ohms
Green-Red Resistor	78,000 Ohm Resistor	5.5 Volts	78,000 Ohms
7 and 8 of Condenser Bank	Plate Choke	4.0 Volts	6,000 Ohms
2 of Condenser Bank and 4 of Terminal Strip	Primary Interstage Transformer	6.4 Volts	2,000 Ohms
UX-245 Grids to Chassis	Secondary Interstage Transformer	2.4 Volts	14,000 Ohms
UX-245 Plates	One-half Secondary Interstage Transformer	3.4 Volts	5,500 Ohms
UX-245 Plates and No. 3 of Condenser Bank	Primary Output Transformer	3.6 Volts	7,500 Ohms
14 and 15 of Terminal Board	One-half Primary Output Transformer	8.4 Volts	330 Ohms
P and P	Speaker Voice Coil	8.8 Volts	165 Ohms
F and F	Primary Power Transformer	9.0 Volts	0 Ohms
	High Voltage Secondary Output Transformer	9.8 Volts	0 Ohms
	UX-286 Filament Secondary Output Transformer	8.4 Volts	340 Ohms
		9.8 Volts	0 Ohms

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



Schematic Diagram of RCA Victor Console, R-43

VOLUME CONTROL AT MINIMUM					
Tube No.	Filament to Control Grid Volts	Filament to Screen Grid Volts	Filament to Plate Volts	Plate Current M. A.	Filament Volts
1	22	55	155	0	2.0
2	—	—	50	3.0	2.0
3	0.5	65	150	0.5	2.0
4	22	55	155	0	2.0
5	5.0	—	90	0	2.0
6	2.0	—	150	2.5	2.0
7	15.0	—	150	0.5	2.0
8	15.0	—	150	0.5	2.0

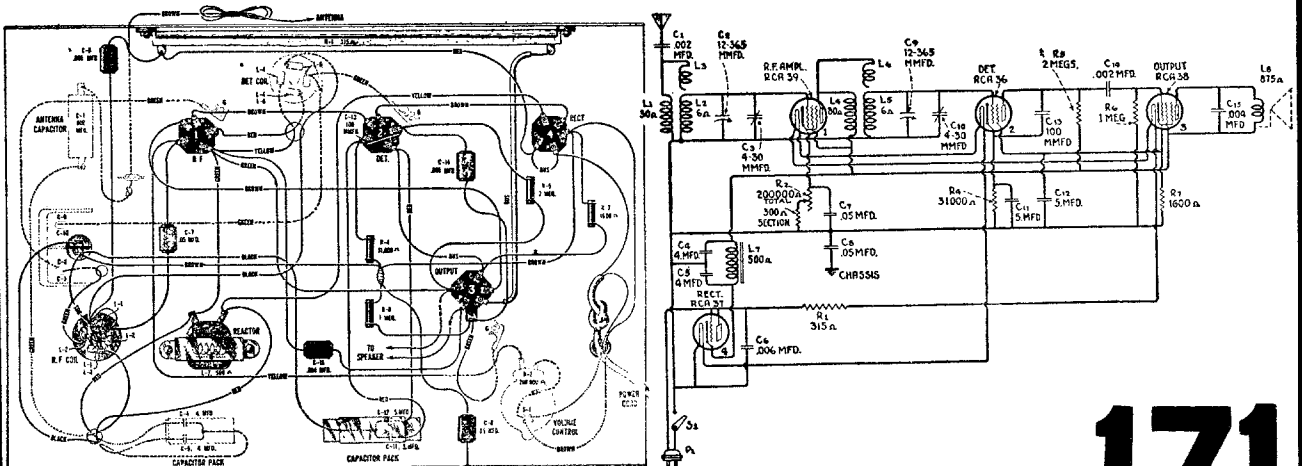
VOLUME CONTROL AT MAXIMUM					
Tube No.	Filament to Control Grid Volts	Filament to Screen Grid Volts	Filament to Plate Volts	Plate Current M. A.	Filament Volts
1	1.5	45	150	2.5	2.0
2	—	—	50	3.0	2.0
3	0.5	60	150	0.5	2.0
4	1.5	45	150	2.5	2.0
5	5.0	—	90	0	2.0
6	2.0	—	150	2.5	2.0
7	15.0	—	150	0.5	2.0
8	15.0	—	150	0.5	2.0

RCA Victor R-17-M

Radiotron No.	Cathode or Filament to Control Grid Volts	Cathode or Filament to Screen Grid Volts	Cathode or Filament to Plate Volts	Plate Current M. A.	Filament or Heater Volts
1. RCA-39 R. F.	3.0	105.0	105	7.0	6.0
2. RCA-36 Detector	*0.75	11.0	*60	0.025	6.0
3. RCA-38 Output	11.0	100.0	95	5.0	6.0
4. RCA-37 Rectifier	—	—	115	15.0	6.0

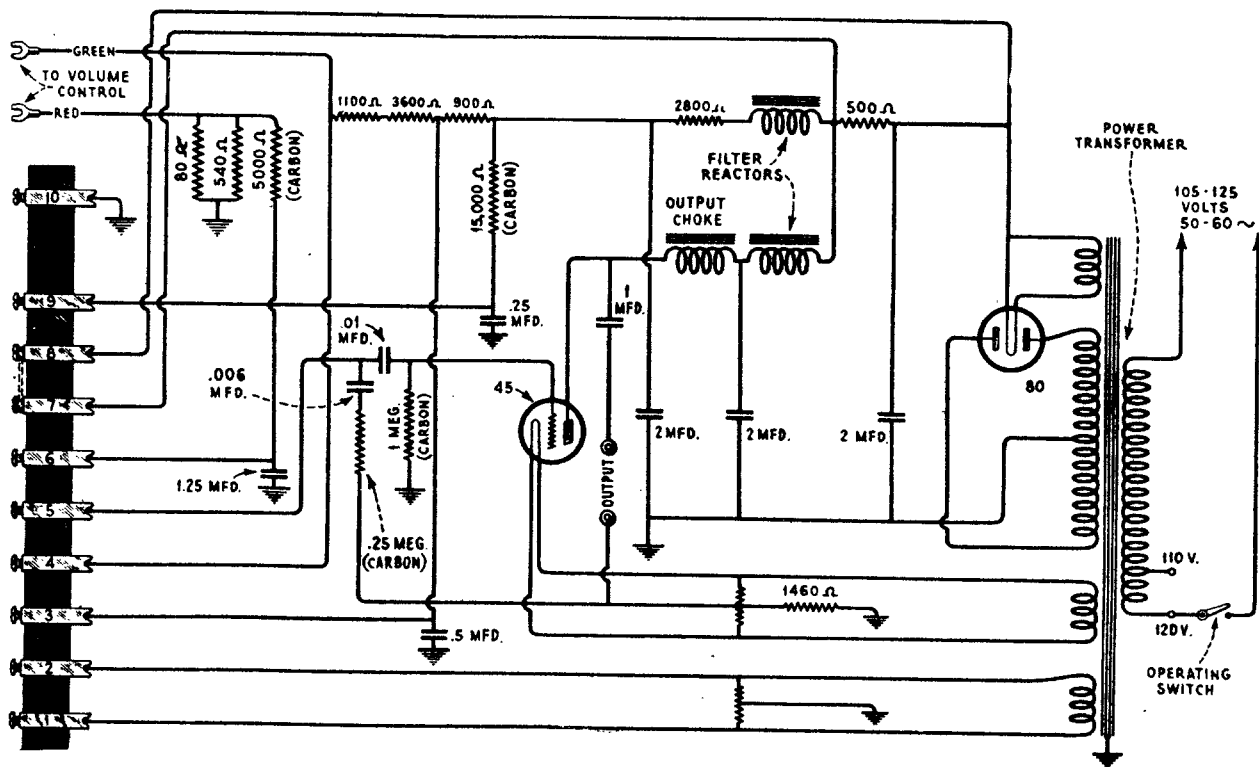
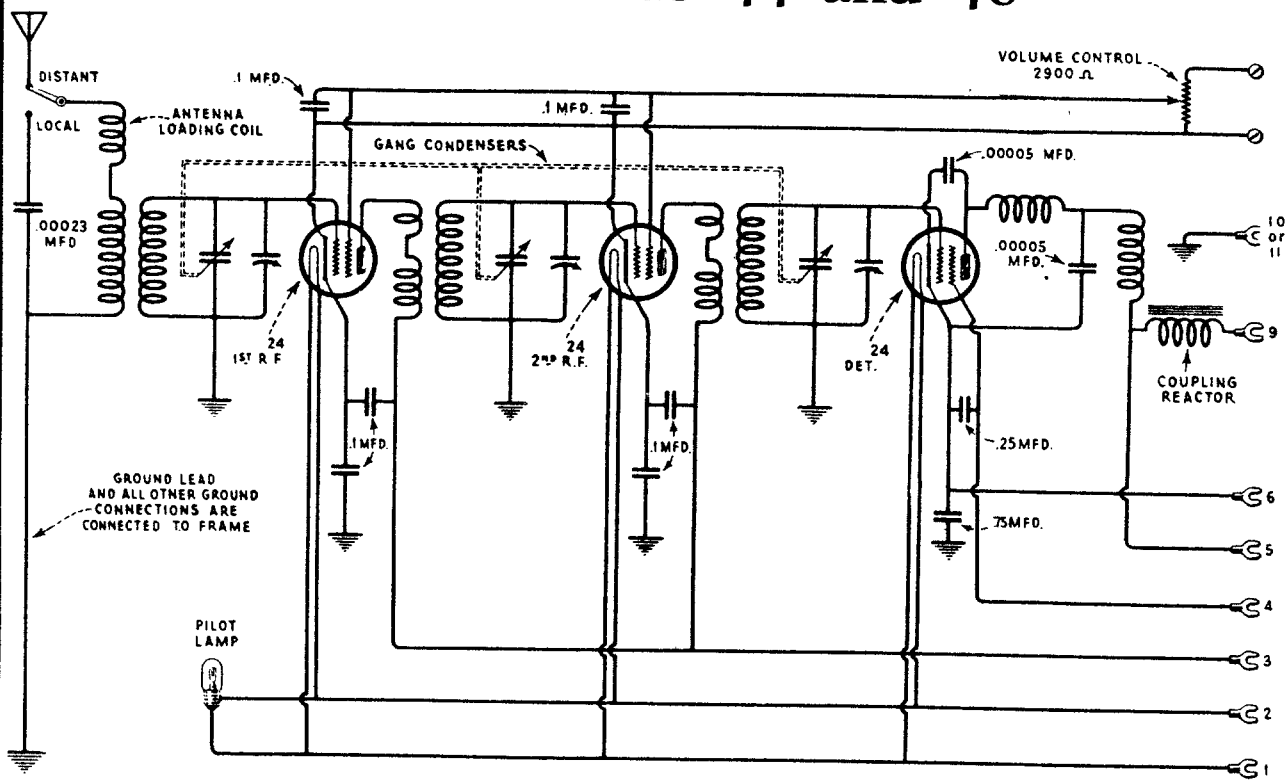
*Impossible to measure on ordinary voltmeter.

All Voltages on D. C. will be slightly lower

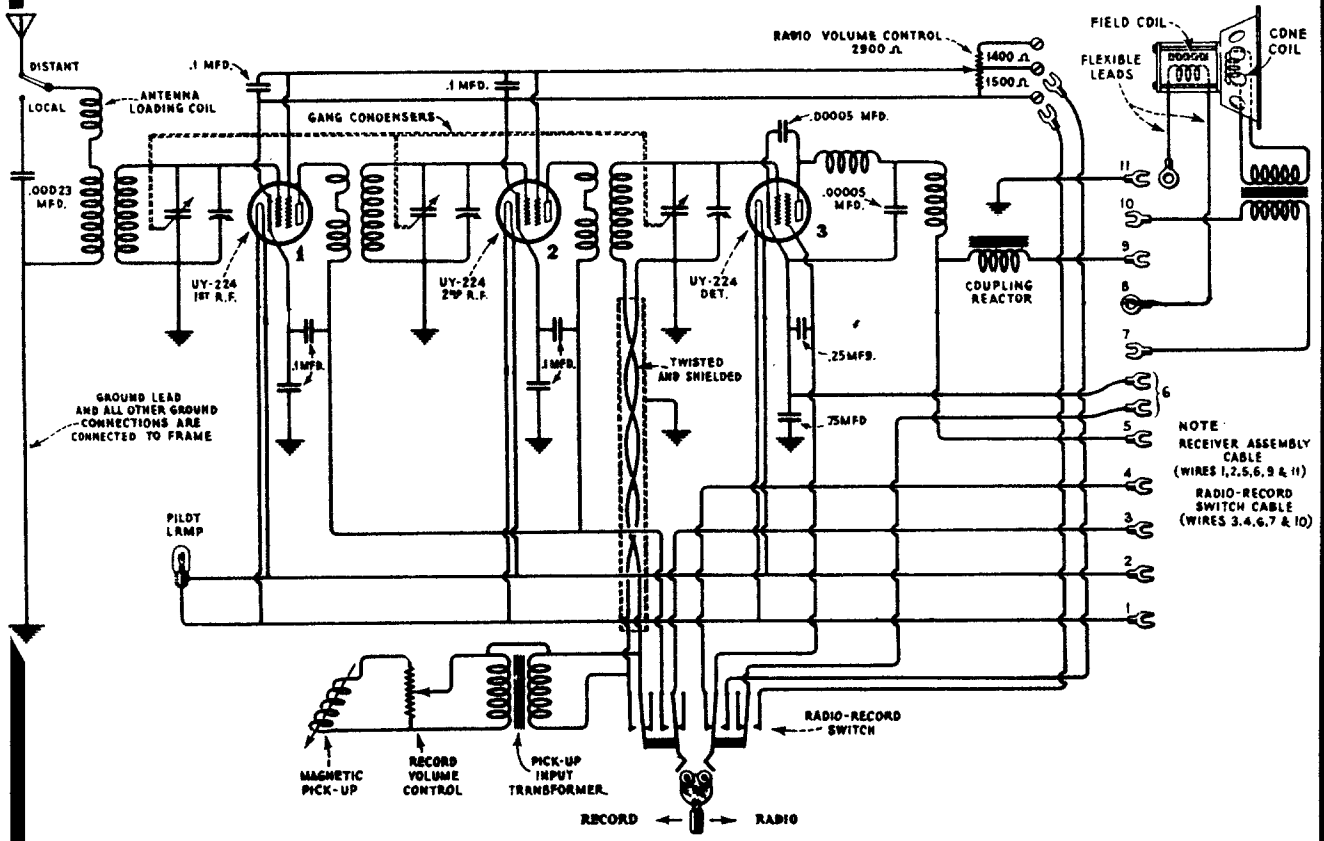


MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

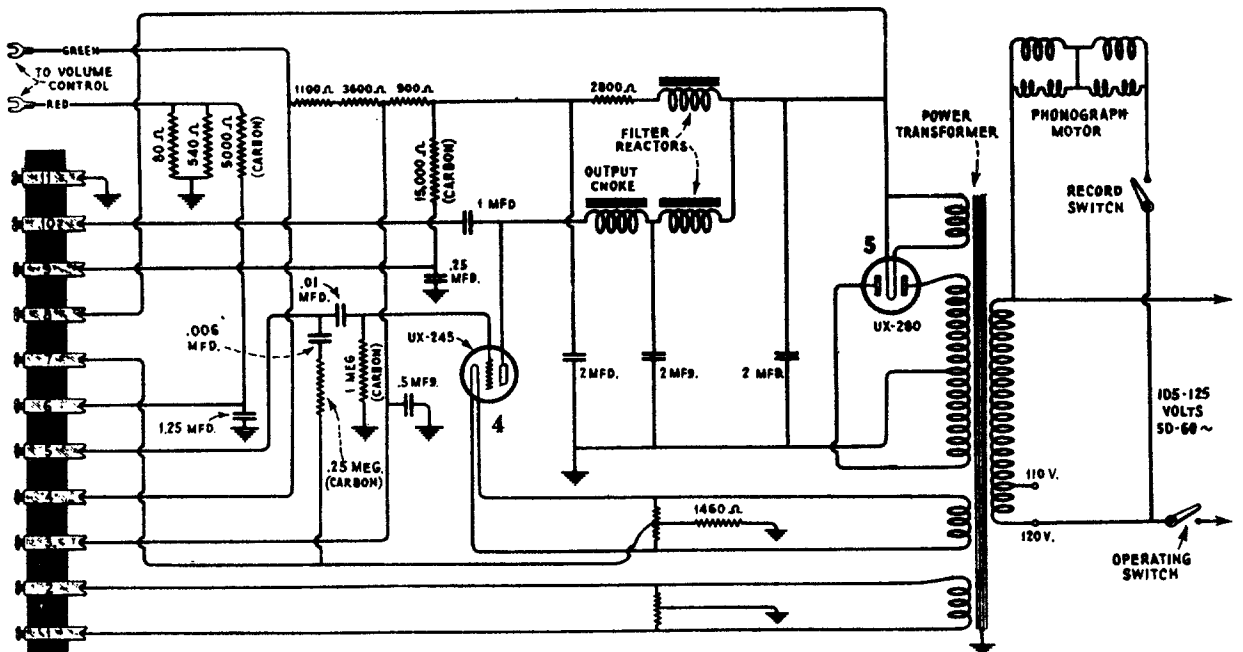
RCA RADIOLAS 44 and 46



Radiola 47

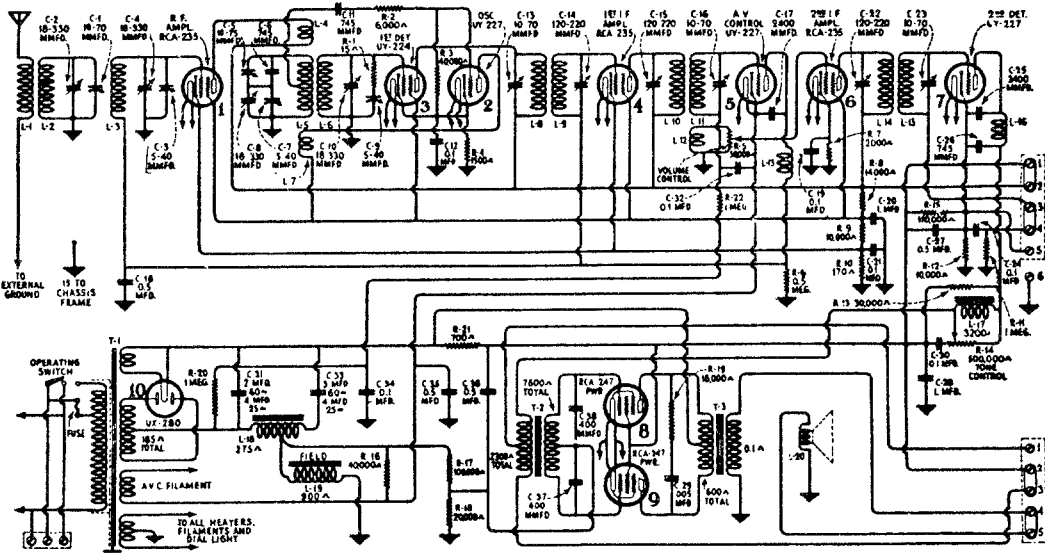


Schematic circuit diagram of receiver, phonograph pick-up and reproducer



Schematic circuit diagram of socket power unit

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



RCA Models R-50, R-55

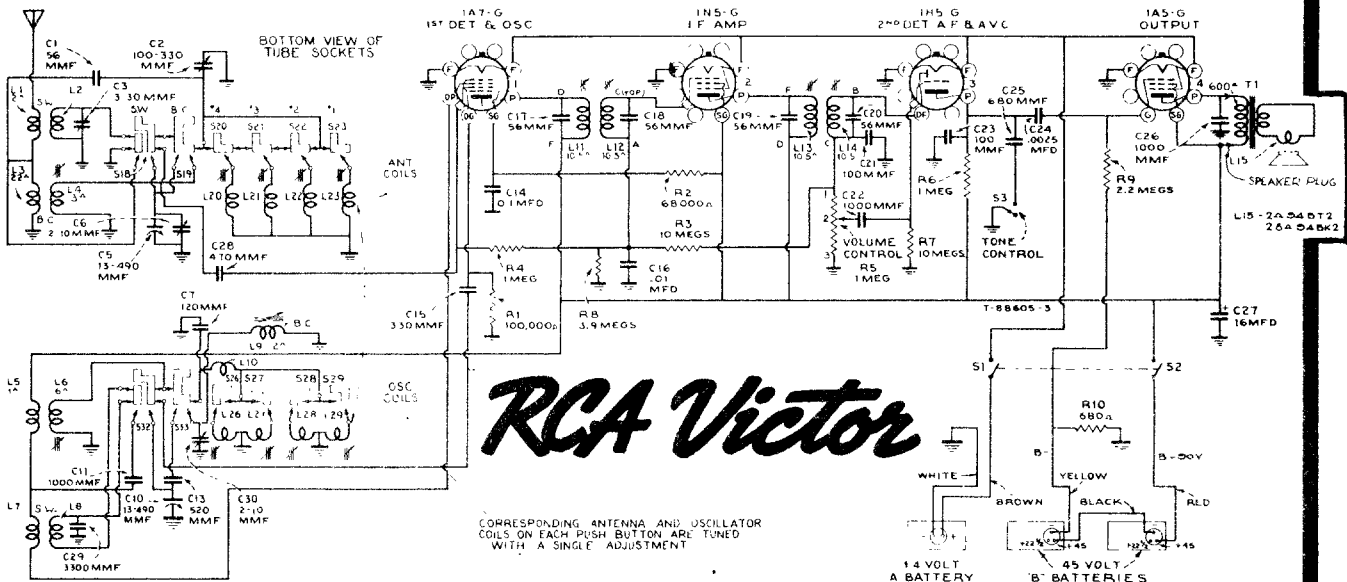
I.F. 175 KC.

MODELS 94BK2 and 94BT2

Chassis No. RC-390

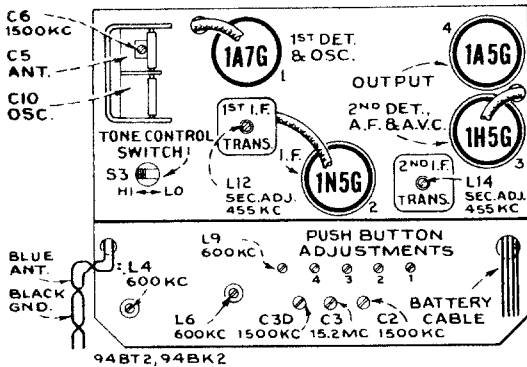
RC-390

RC-390



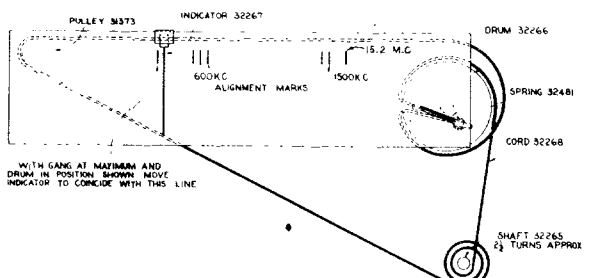
RCA Victor

CORRESPONDING ANTENNA AND OSCILLATOR COILS ON EACH PUSH BUTTON ARE TUNED WITH A SINGLE ADJUSTMENT



94BT2, 94BK2

Tube and Trimmer Locations

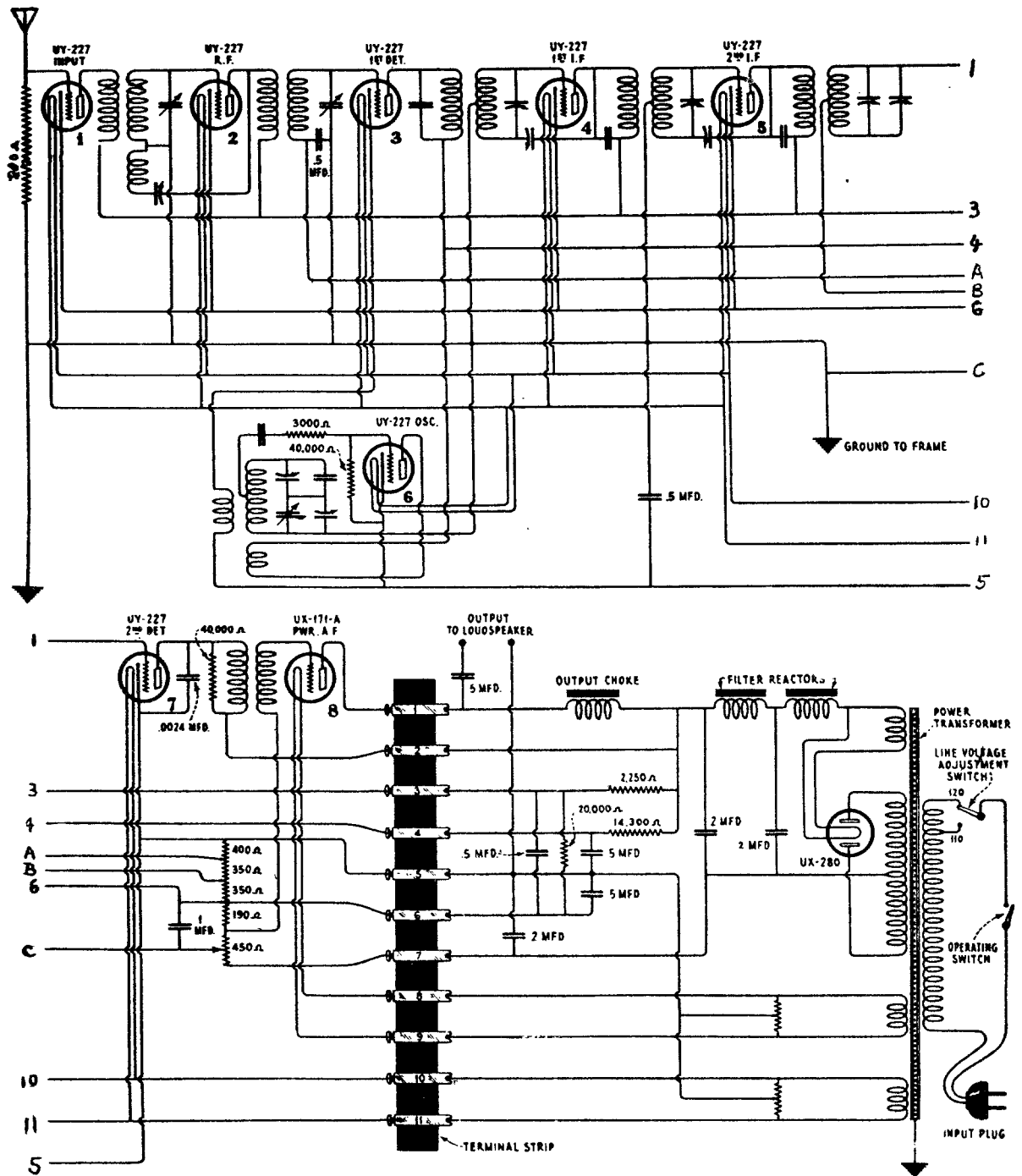


Dial Drive Hookup and Alignment Marks

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

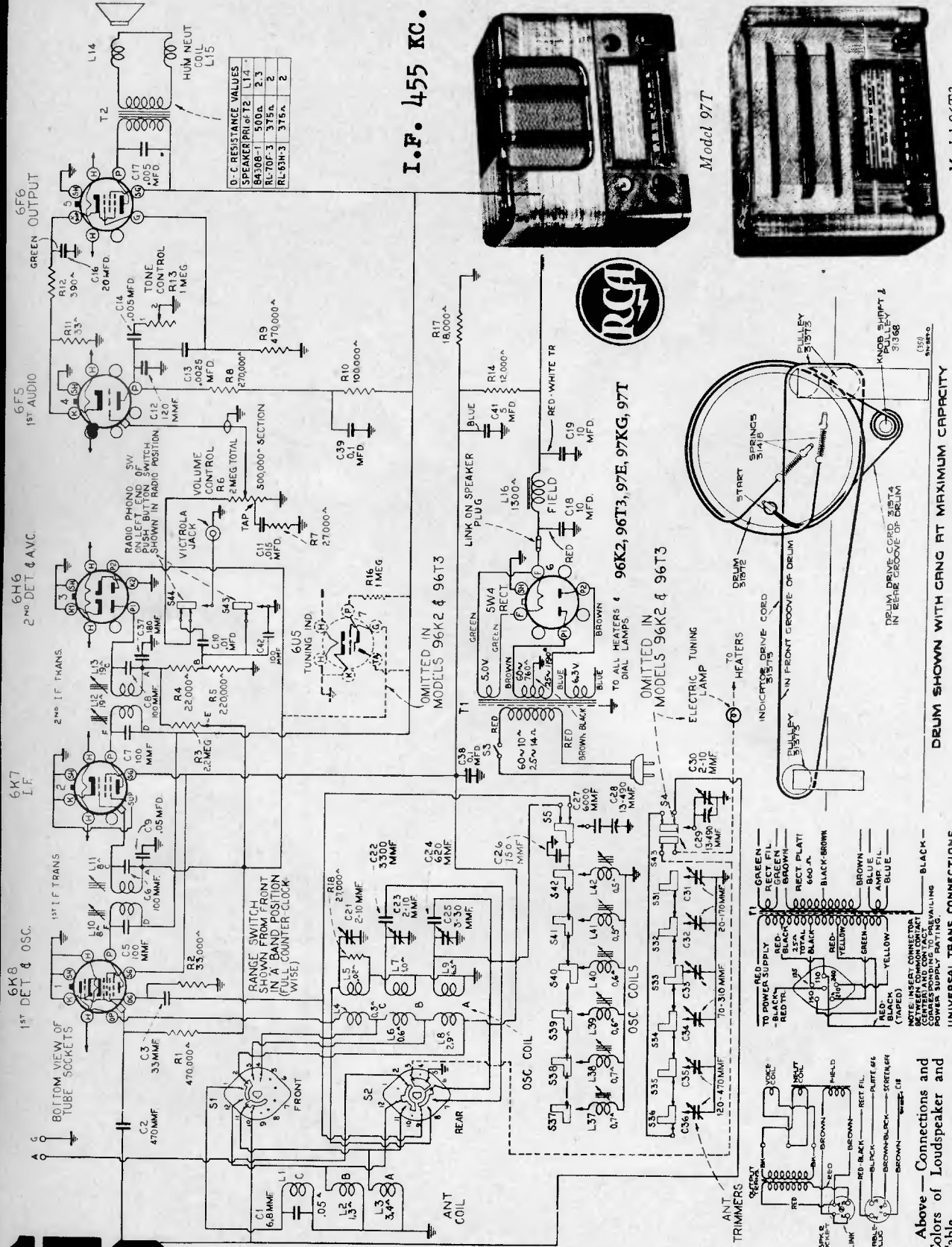
RCA RADIOLA 60

(105-125 Volts. 50-60 Cycle A. C.)



I.F. 180 KC.

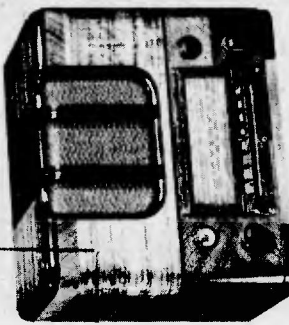
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



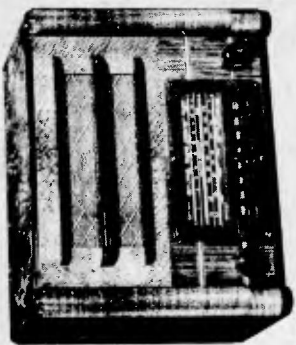
D-C RESISTANCE VALUES

SPREADER (RI)	L1	L2
RL-50A-1	500 Ω	33
RL-50B-3	375 Ω	2
RL-53M-3	375 Ω	2

I.F. 455 KC.



Model 97T

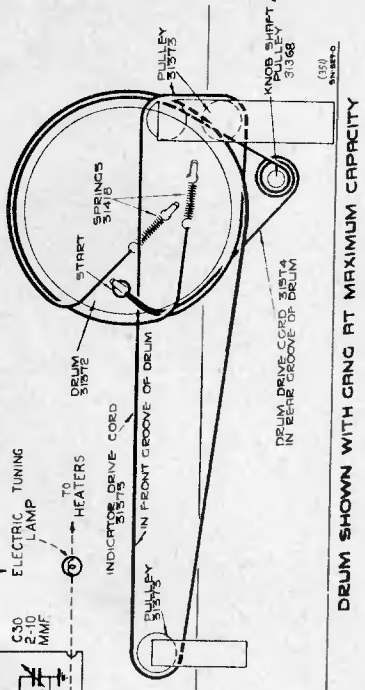


Model 96T3

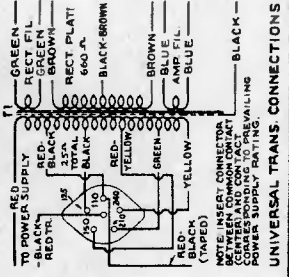


OMITTED IN MODELS 96K2 & 96T3

OMITTED IN MODELS 96K2, 96T3, 97E, 97KG, 97T



DRUM SHOWN WITH GANG AT MAXIMUM CAPACITY

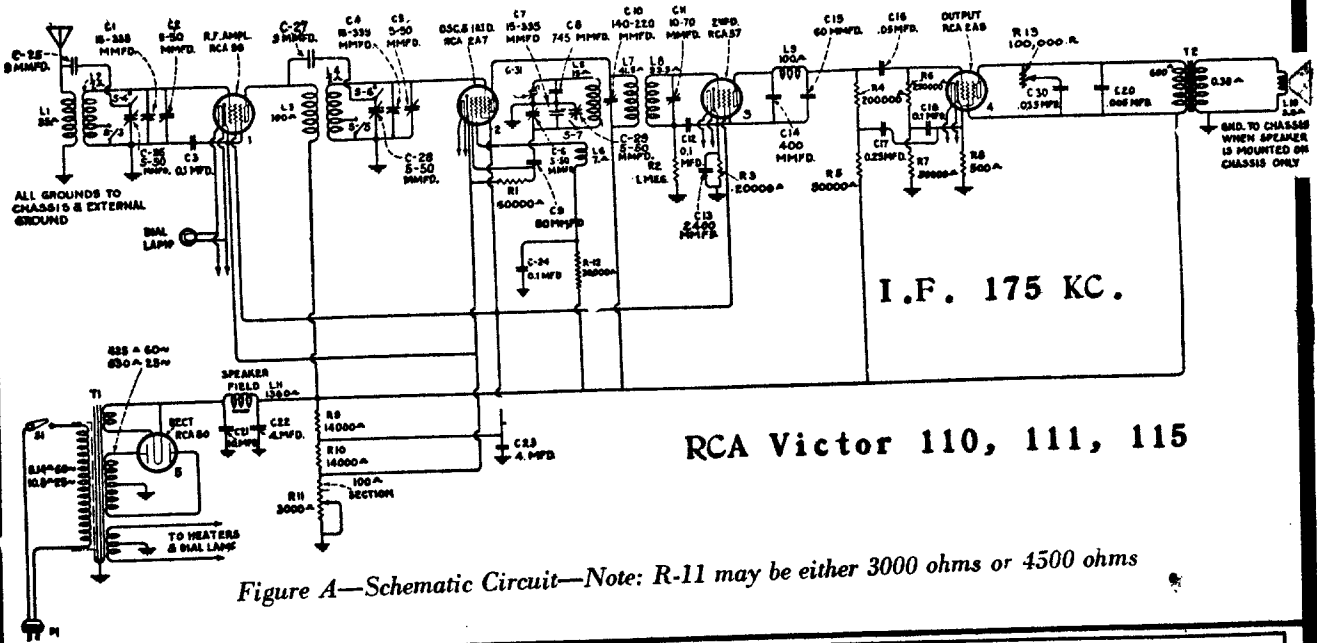


NOTE: INSERT CONNECTOR BETWEEN COMMON CONTACT COILS SHOWING TO PREVAILING POWER SUPPLY POINTING.

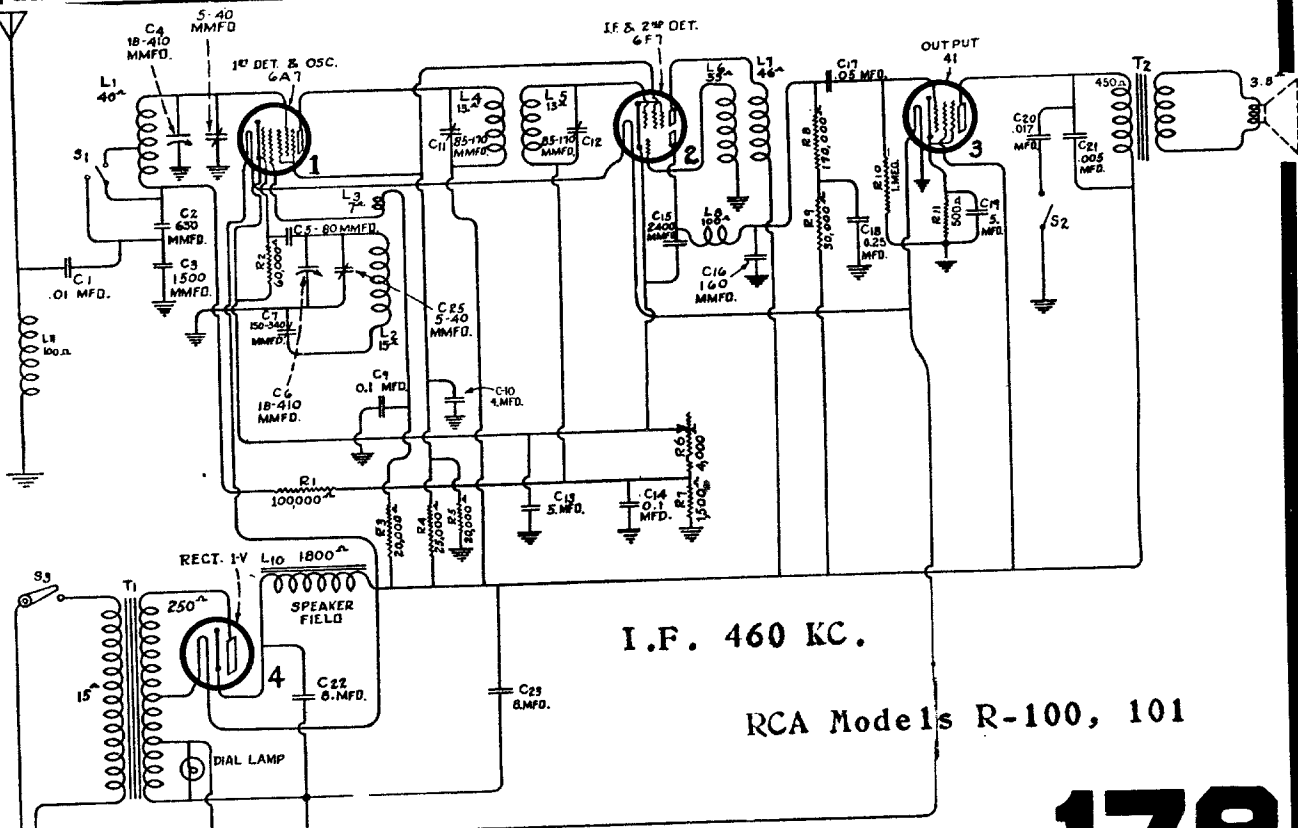
UNIVERSAL TRANS. CONNECTIONS

Above — Connections and Colors of Loudspeaker and Cable.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

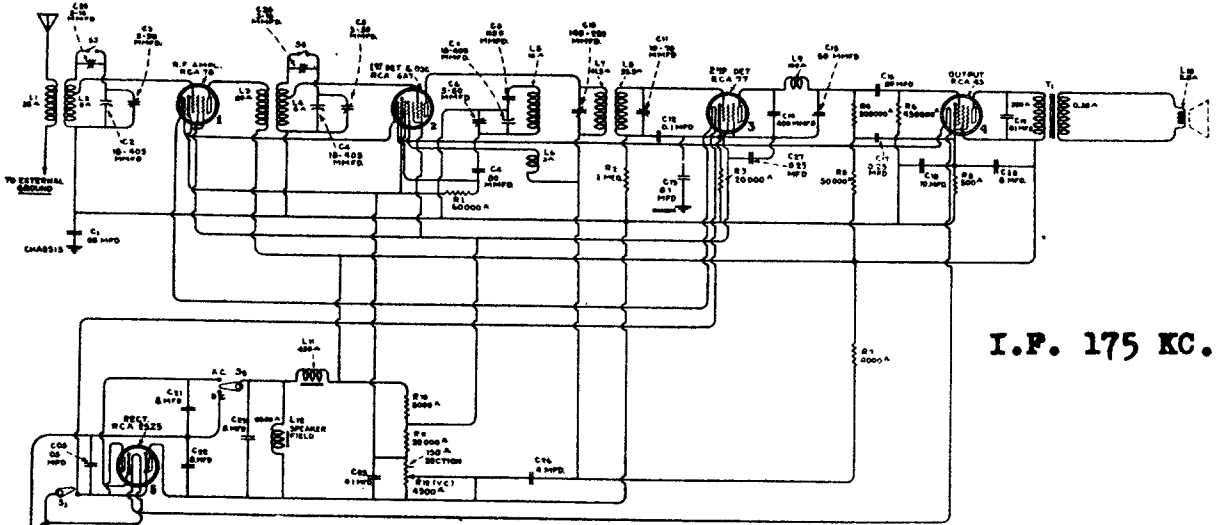


Radiotron No.	Cathode to Control Grid, Volts D. C.	Cathode to Screen Grid, Volts, D. C.	Cathode to Plate, Volts D. C.	Plate Current, M. A.	Heater or Filament, Volts
RCA-6A7	First Detector	1.25	70	235	6.3
	Oscillator	—	—	180	3.5
RCA-6F7	I. F.	1.25	70	235	6.3
	Second Detector	19	—	145*	0.4
RCA-41	Output	17	240	230	6.3
RCA-1-V	Rectifier	—	—	335 RMS	50

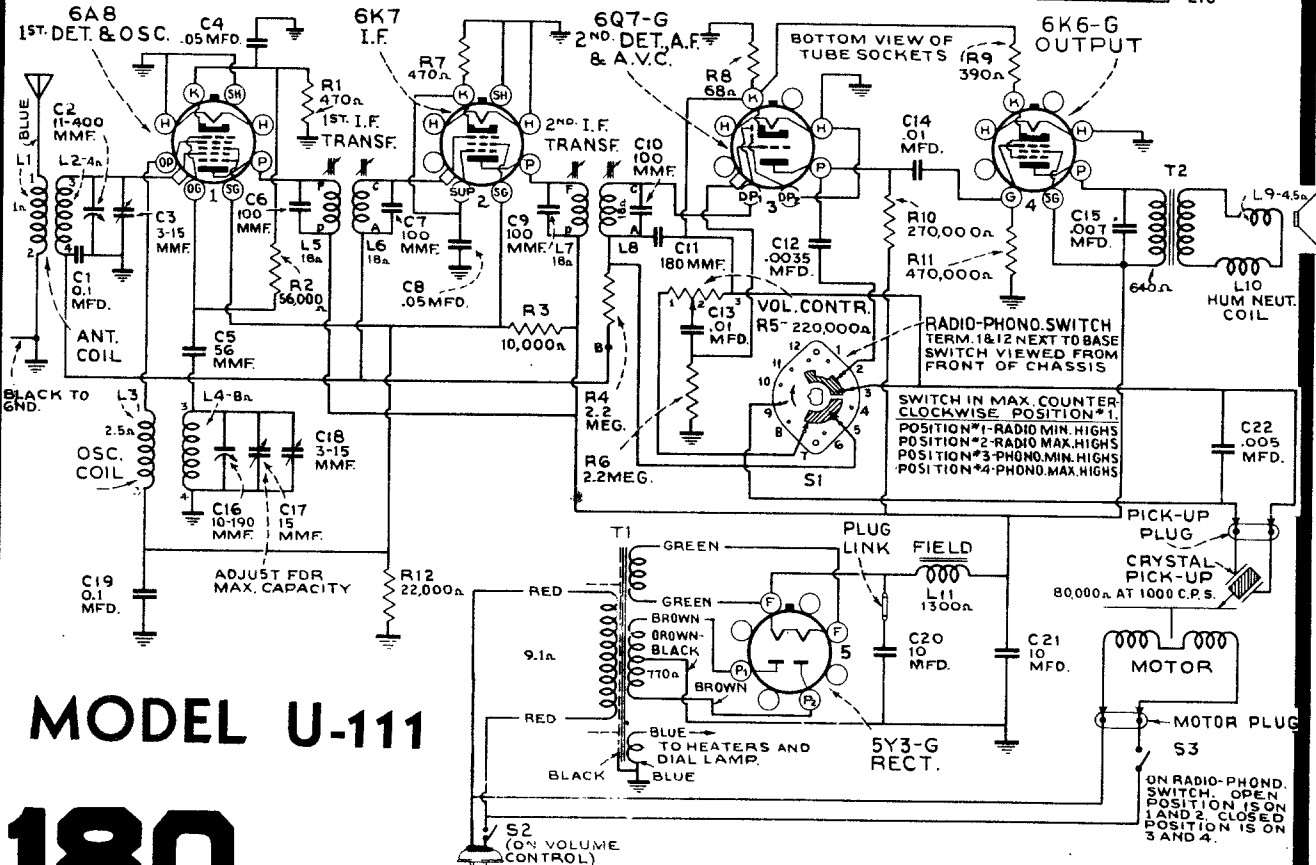
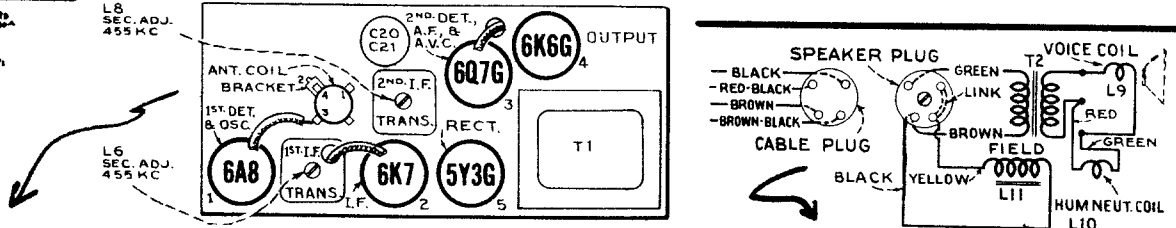


MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

RCA Victor 114



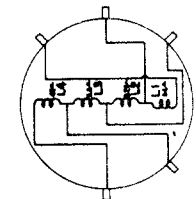
I.F. 175 KC.



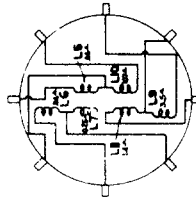
MODEL U-111

180

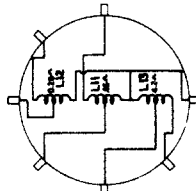
COMPILED BY M. N. BEITMAN, SUPREME PUBLICATIONS



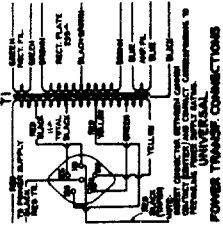
ANT. COIL CONNECTIONS



DET. COIL CONNECTIONS

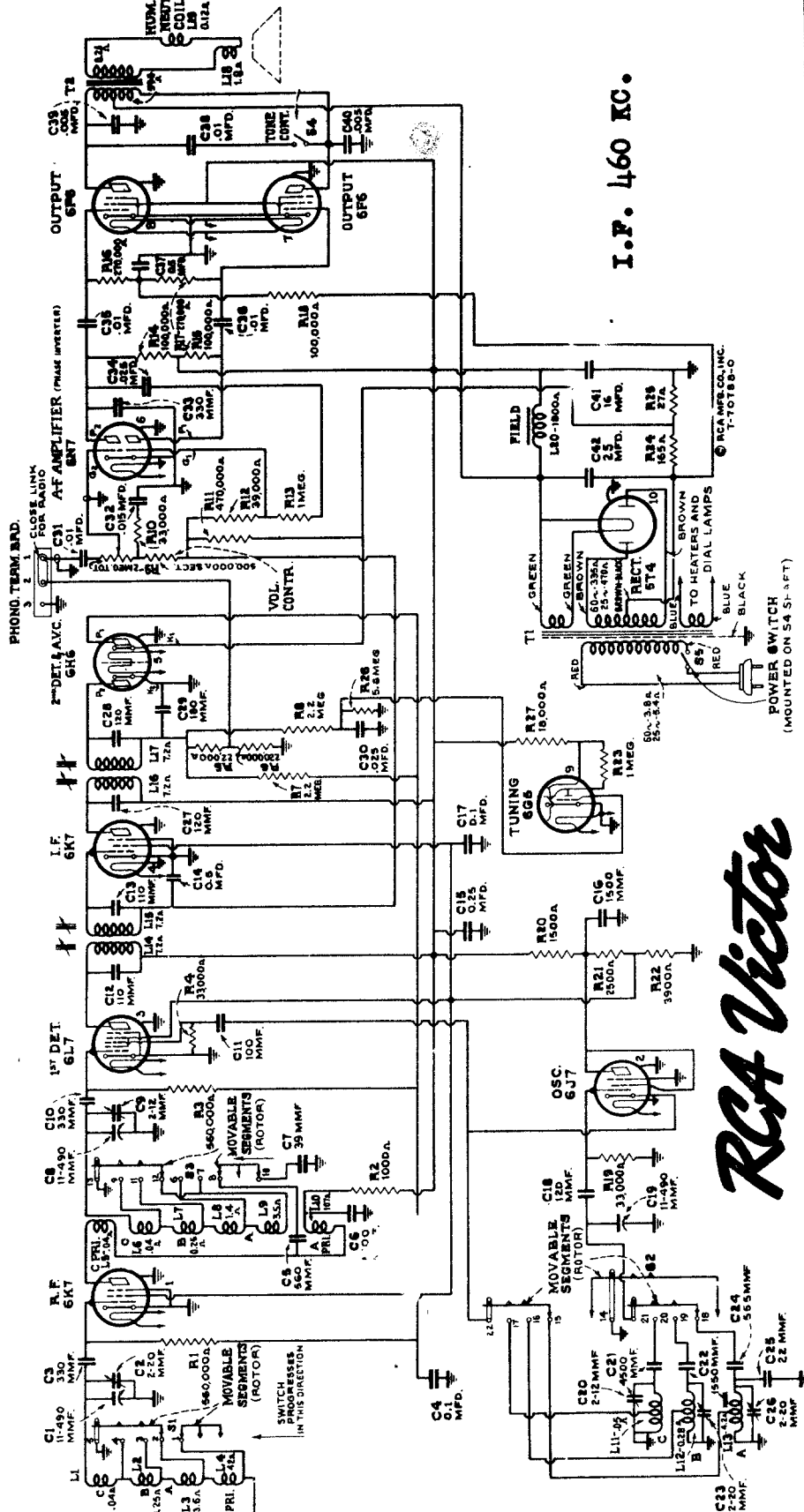


OSC. COIL CONNECTIONS



POWER TRANSFORMER CONNECTIONS

MODELS 810K, 810K1, and 810T



RCA Victor

I.P. 460 KC.

POWER SWITCH (MOUNTED ON 54 S1-AFT)

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

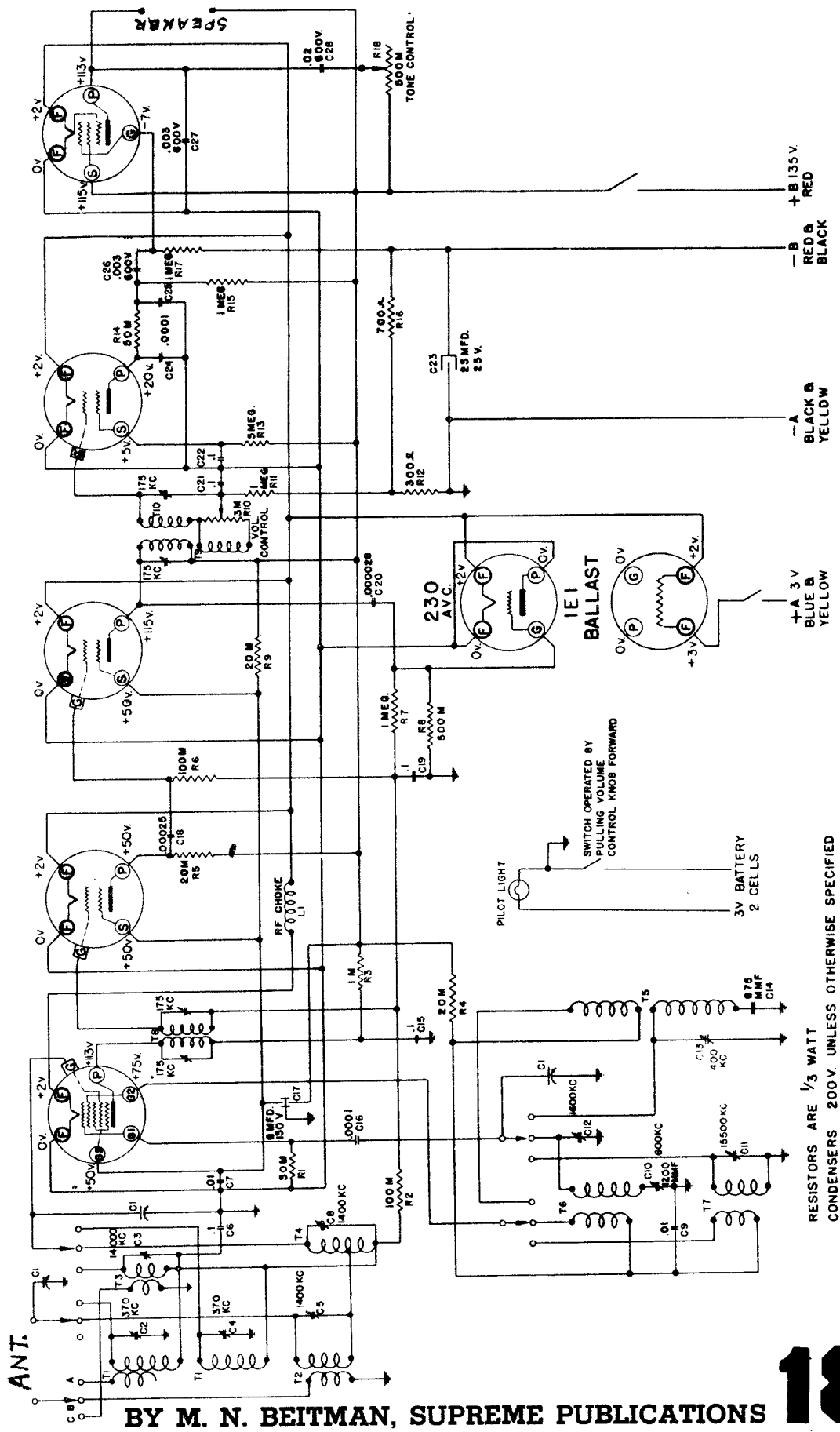
950
OUTPUT

232
DET.

1A4
I.F.

1A4
I.F.

1C6
OSC.—TRANS.



SCHEMATIC - MODELS 1923-1933-1983-1993

Sears, Roebuck & Co.

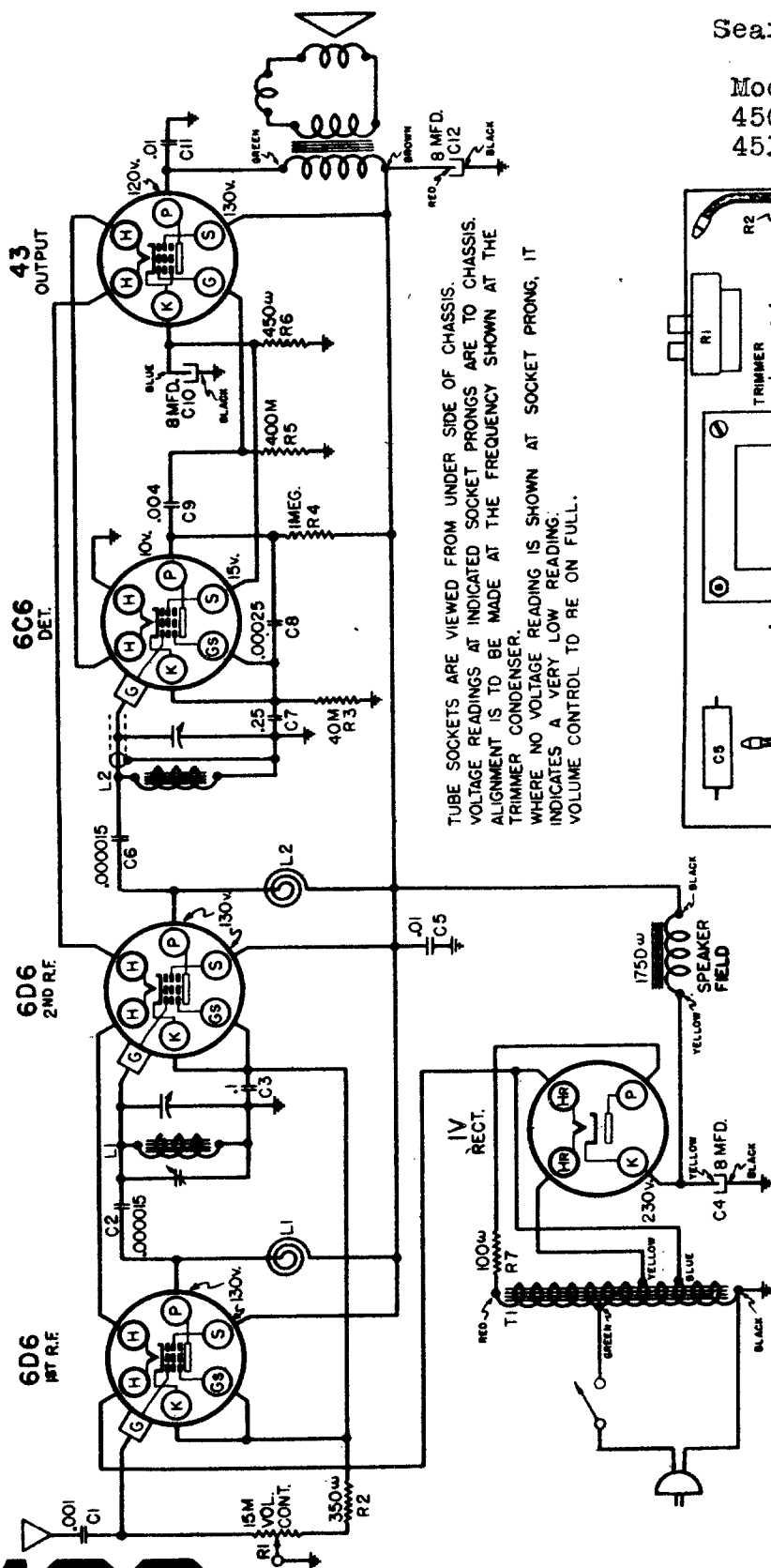
RESISTORS ARE 1/3 WATT
 CONDENSERS 200V. UNLESS OTHERWISE SPECIFIED
 VOLTAGE READINGS ARE TAKEN FROM CHASSIS TO
 INDICATED PRONG OF EACH SOCKET. ALIGNMENT
 IS TO BE MADE AT FREQUENCIES SHOWN AT
 EACH TRIMMER.
 WHERE NO VALUE IS SHOWN, READING IS VERY LOW
 BECAUSE OF HIGH SERIES RESISTANCE IN CIRCUIT.
 TUB SOCKET ARE VIEWED FROM UNDER SIDE OF CHASSIS.

BY M. N. BEITMAN, SUPREME PUBLICATIONS

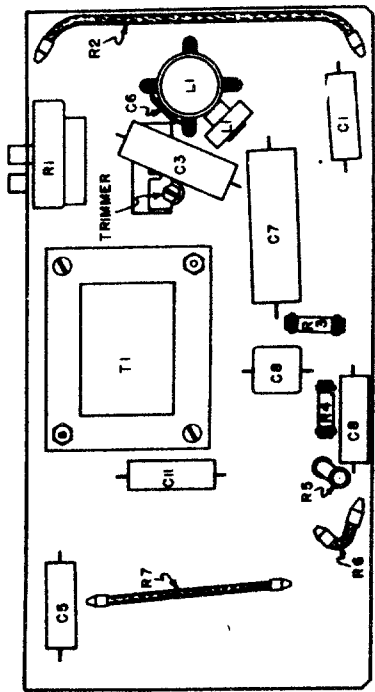
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

Sears Roebuck & Co.

Models: 4414, 4415,
4500, 4505, 4506,
4510, 4511

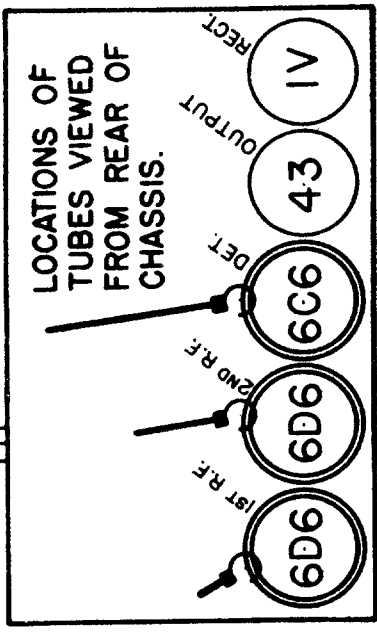


TUBE SOCKETS ARE VIEWED FROM UNDER SIDE OF CHASSIS. VOLTAGE READINGS AT INDICATED SOCKET PRONGS ARE TO CHASSIS. ALIGNMENT IS TO BE MADE AT THE FREQUENCY SHOWN AT THE TRIMMER CONDENSER. WHERE NO VOLTAGE READING IS SHOWN AT SOCKET PRONG, IT INDICATES A VERY LOW READING. VOLUME CONTROL TO BE ON FULL.



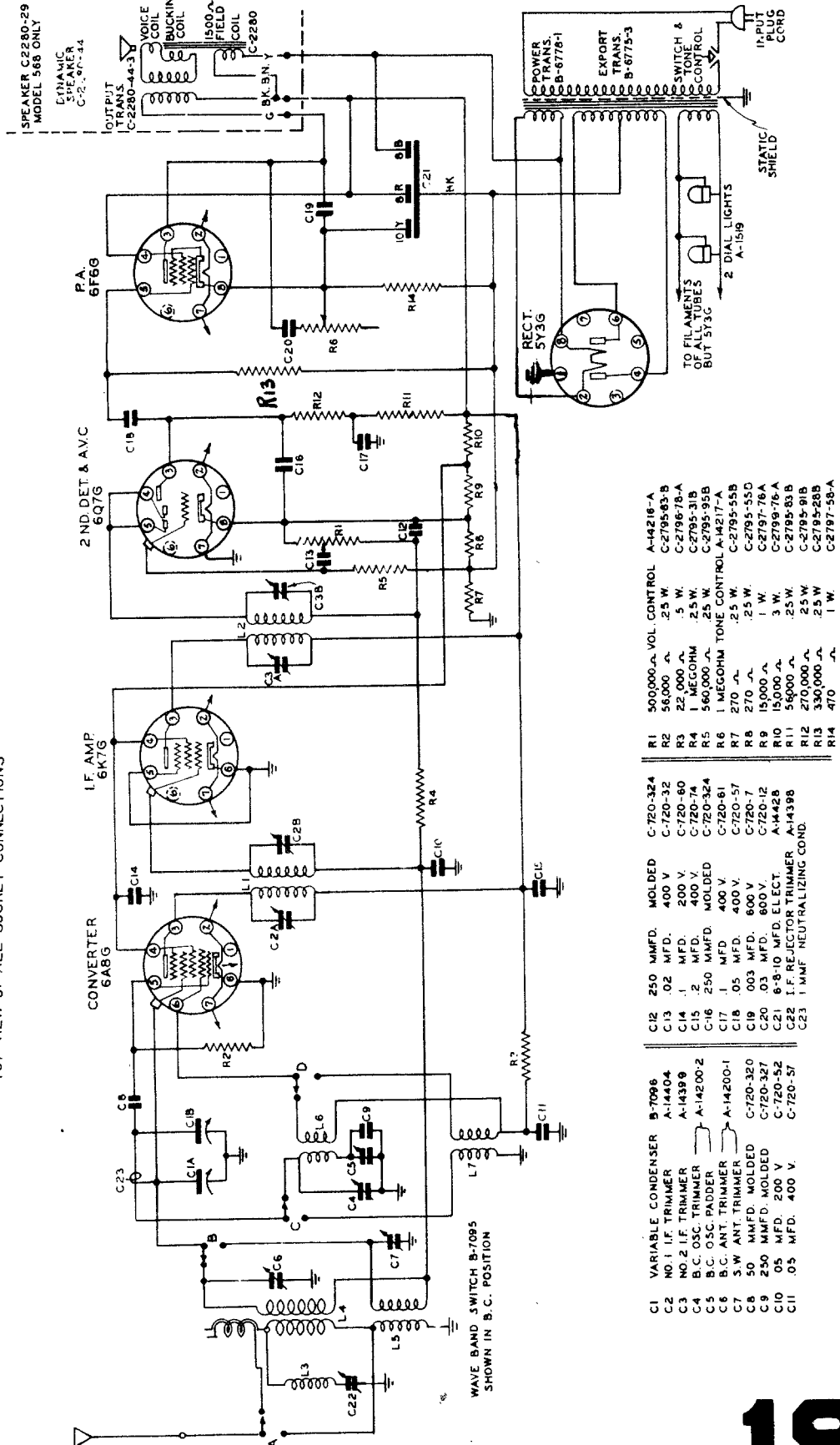
C4, C6, C8, & L1 ARE MOUNTED ON TOP OF CHASSIS.

LOCATIONS OF PARTS UNDER CHASSIS



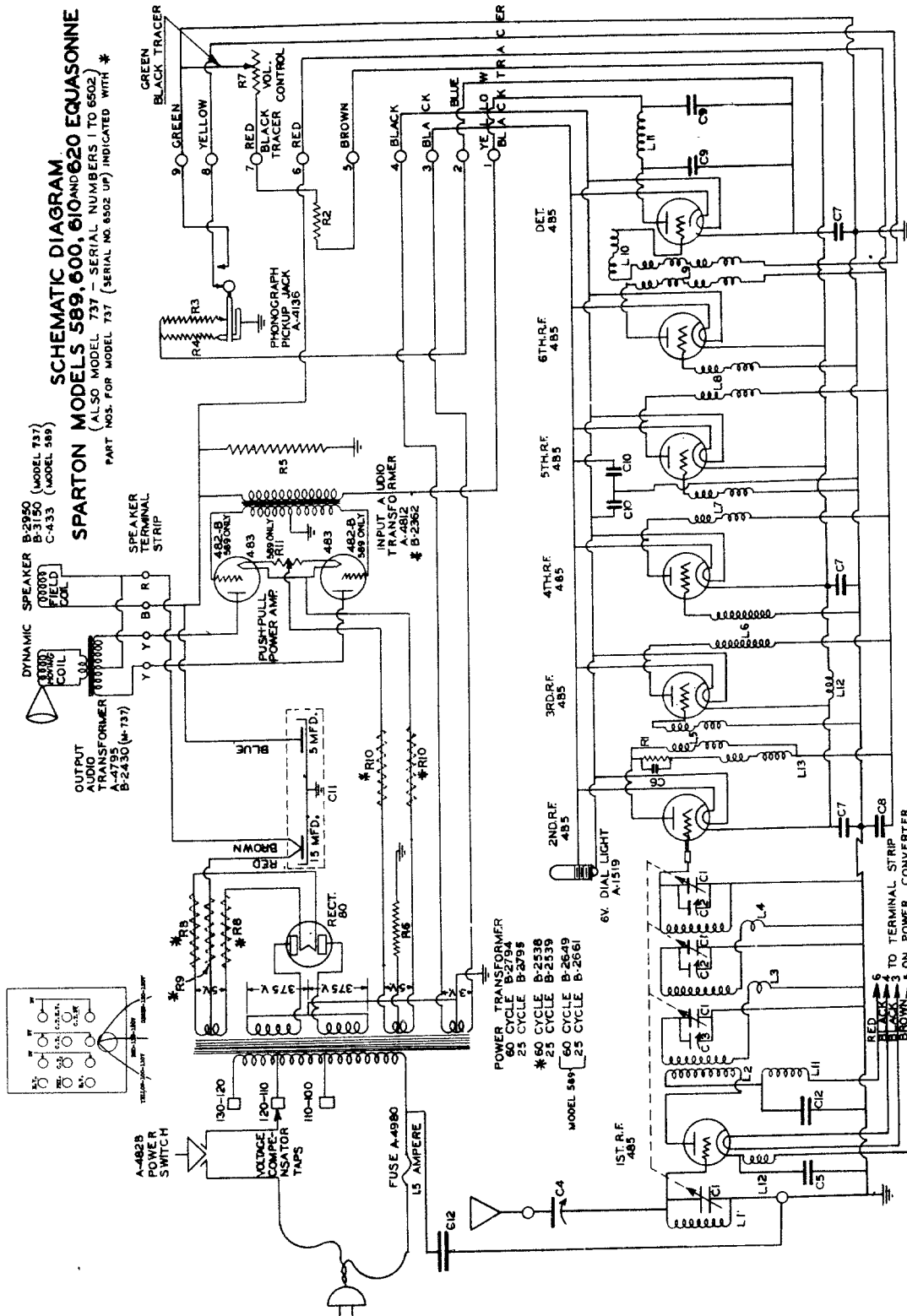
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

SCHEMATIC DIAGRAM SPARTON SUPERHETERODYNE MODEL 518, 518X, 558 & 558X 568 INTERMEDIATE FREQUENCY 456 K.C. TOP VIEW OF ALL SOCKET CONNECTIONS



MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

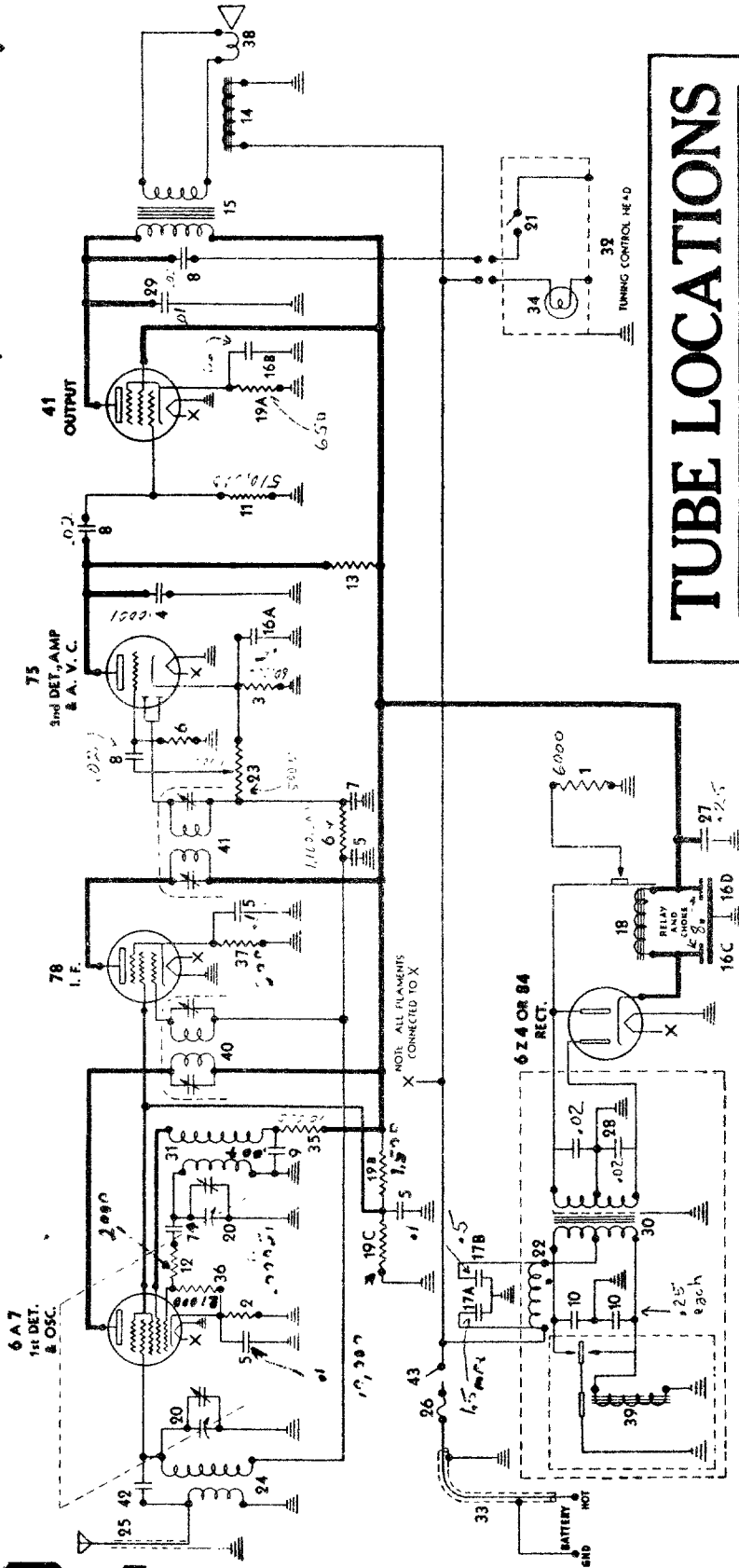
SCHEMATIC DIAGRAM SPARTON MODELS 589, 600, 610 AND 620 EQUASONNE (ALSO MODEL 737 - SERIAL NUMBERS 1 TO 6502) PART NOS. FOR MODEL 737 (SERIAL NO. 6502 UP) INDICATED WITH *



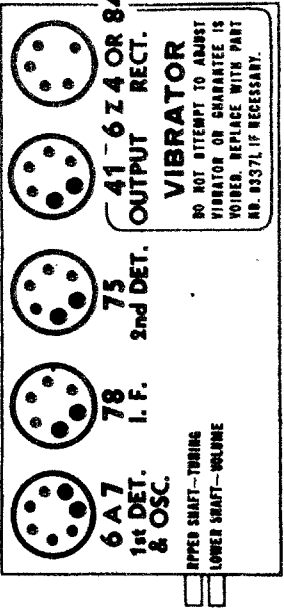
- A-4829 POWER SWITCH
- A-4713 C1 VARIABLE CONDENSER
- A-4712 C2 DOUBLE EQ. CONDENSER
- A-4916 C3 SINGLE EQ. CONDENSER
- A-4908 C4 ANT. CO. COMPENSATOR
- A-4354 C5 1000 μ 3 MFD.
- A-5032 C6 1 MFD.
- A-5033 C7 1 MFD.
- A-3217 C8 .25 MFD.
- A-3218 C9 .002 MFD.
- A-7420 C10 2 MFD.
- B-2948 C11 FILTER CONDENSER
- A-4434 C12 .006 MFD.
- A-4353 R1 2800 Ω 5 W.
- A-3397 R2 110 Ω 1 W.
- A-2934 R3 1000 Ω 2 W.
- A-4107 R4 20,000 Ω 2 W.
- A-4974 R5 15,000 Ω 5 W.
- A-4975 R6 1250 Ω 3 W.
- A-4770 R7 15,000 Ω VOL. CONT.
- B-2950 L1 1ST. TUNING COIL
- B-3150 L2 2ND. TUNING COIL
- C-433 L3 3RD. TUNING COIL
- A-4758 L4 4TH. TUNING COIL
- A-4826 L5 COUPLING COIL
- A-2963 W L6 2ND. R.F. TRANS.
- A-2965 W L7 3RD. R.F. TRANS.
- A-2967 W L8 4TH. R.F. TRANS.
- A-3219 L9 5TH. R.F. TRANS.
- A-3258 W L10 6TH. R.F. TRANS.
- A-3258 W L11 7TH. R.F. TRANS.
- A-3258 W L12 8TH. R.F. TRANS.
- A-3258 W L13 9TH. R.F. TRANS.
- A-3258 W L14 10TH. R.F. TRANS.
- A-3258 W L15 11TH. R.F. TRANS.
- A-3258 W L16 12TH. R.F. TRANS.
- A-3258 W L17 13TH. R.F. TRANS.
- A-3258 W L18 14TH. R.F. TRANS.
- A-3258 W L19 15TH. R.F. TRANS.
- A-3258 W L20 16TH. R.F. TRANS.
- A-3258 W L21 17TH. R.F. TRANS.
- A-3258 W L22 18TH. R.F. TRANS.
- A-3258 W L23 19TH. R.F. TRANS.
- A-3258 W L24 20TH. R.F. TRANS.
- A-3258 W L25 21TH. R.F. TRANS.
- A-3258 W L26 22TH. R.F. TRANS.
- A-3258 W L27 23TH. R.F. TRANS.
- A-3258 W L28 24TH. R.F. TRANS.
- A-3258 W L29 25TH. R.F. TRANS.
- A-3258 W L30 26TH. R.F. TRANS.
- A-3258 W L31 27TH. R.F. TRANS.
- A-3258 W L32 28TH. R.F. TRANS.
- A-3258 W L33 29TH. R.F. TRANS.
- A-3258 W L34 30TH. R.F. TRANS.
- A-3258 W L35 31TH. R.F. TRANS.
- A-3258 W L36 32TH. R.F. TRANS.
- A-3258 W L37 33TH. R.F. TRANS.
- A-3258 W L38 34TH. R.F. TRANS.
- A-3258 W L39 35TH. R.F. TRANS.
- A-3258 W L40 36TH. R.F. TRANS.
- A-3258 W L41 37TH. R.F. TRANS.
- A-3258 W L42 38TH. R.F. TRANS.
- A-3258 W L43 39TH. R.F. TRANS.
- A-3258 W L44 40TH. R.F. TRANS.
- A-3258 W L45 41TH. R.F. TRANS.
- A-3258 W L46 42TH. R.F. TRANS.
- A-3258 W L47 43TH. R.F. TRANS.
- A-3258 W L48 44TH. R.F. TRANS.
- A-3258 W L49 45TH. R.F. TRANS.
- A-3258 W L50 46TH. R.F. TRANS.
- A-3258 W L51 47TH. R.F. TRANS.
- A-3258 W L52 48TH. R.F. TRANS.
- A-3258 W L53 49TH. R.F. TRANS.
- A-3258 W L54 50TH. R.F. TRANS.
- A-3258 W L55 51TH. R.F. TRANS.
- A-3258 W L56 52TH. R.F. TRANS.
- A-3258 W L57 53TH. R.F. TRANS.
- A-3258 W L58 54TH. R.F. TRANS.
- A-3258 W L59 55TH. R.F. TRANS.
- A-3258 W L60 56TH. R.F. TRANS.
- A-3258 W L61 57TH. R.F. TRANS.
- A-3258 W L62 58TH. R.F. TRANS.
- A-3258 W L63 59TH. R.F. TRANS.
- A-3258 W L64 60TH. R.F. TRANS.
- A-3258 W L65 61TH. R.F. TRANS.
- A-3258 W L66 62TH. R.F. TRANS.
- A-3258 W L67 63TH. R.F. TRANS.
- A-3258 W L68 64TH. R.F. TRANS.
- A-3258 W L69 65TH. R.F. TRANS.
- A-3258 W L70 66TH. R.F. TRANS.
- A-3258 W L71 67TH. R.F. TRANS.
- A-3258 W L72 68TH. R.F. TRANS.
- A-3258 W L73 69TH. R.F. TRANS.
- A-3258 W L74 70TH. R.F. TRANS.
- A-3258 W L75 71TH. R.F. TRANS.
- A-3258 W L76 72TH. R.F. TRANS.
- A-3258 W L77 73TH. R.F. TRANS.
- A-3258 W L78 74TH. R.F. TRANS.
- A-3258 W L79 75TH. R.F. TRANS.
- A-3258 W L80 76TH. R.F. TRANS.
- A-3258 W L81 77TH. R.F. TRANS.
- A-3258 W L82 78TH. R.F. TRANS.
- A-3258 W L83 79TH. R.F. TRANS.
- A-3258 W L84 80TH. R.F. TRANS.
- A-3258 W L85 81TH. R.F. TRANS.
- A-3258 W L86 82TH. R.F. TRANS.
- A-3258 W L87 83TH. R.F. TRANS.
- A-3258 W L88 84TH. R.F. TRANS.
- A-3258 W L89 85TH. R.F. TRANS.
- A-3258 W L90 86TH. R.F. TRANS.
- A-3258 W L91 87TH. R.F. TRANS.
- A-3258 W L92 88TH. R.F. TRANS.
- A-3258 W L93 89TH. R.F. TRANS.
- A-3258 W L94 90TH. R.F. TRANS.
- A-3258 W L95 91TH. R.F. TRANS.
- A-3258 W L96 92TH. R.F. TRANS.
- A-3258 W L97 93TH. R.F. TRANS.
- A-3258 W L98 94TH. R.F. TRANS.
- A-3258 W L99 95TH. R.F. TRANS.
- A-3258 W L100 96TH. R.F. TRANS.
- A-3258 W L101 97TH. R.F. TRANS.
- A-3258 W L102 98TH. R.F. TRANS.
- A-3258 W L103 99TH. R.F. TRANS.
- A-3258 W L104 100TH. R.F. TRANS.
- A-3258 W L105 101TH. R.F. TRANS.
- A-3258 W L106 102TH. R.F. TRANS.
- A-3258 W L107 103TH. R.F. TRANS.
- A-3258 W L108 104TH. R.F. TRANS.
- A-3258 W L109 105TH. R.F. TRANS.
- A-3258 W L110 106TH. R.F. TRANS.
- A-3258 W L111 107TH. R.F. TRANS.
- A-3258 W L112 108TH. R.F. TRANS.
- A-3258 W L113 109TH. R.F. TRANS.
- A-3258 W L114 110TH. R.F. TRANS.
- A-3258 W L115 111TH. R.F. TRANS.
- A-3258 W L116 112TH. R.F. TRANS.
- A-3258 W L117 113TH. R.F. TRANS.
- A-3258 W L118 114TH. R.F. TRANS.
- A-3258 W L119 115TH. R.F. TRANS.
- A-3258 W L120 116TH. R.F. TRANS.
- A-3258 W L121 117TH. R.F. TRANS.
- A-3258 W L122 118TH. R.F. TRANS.
- A-3258 W L123 119TH. R.F. TRANS.
- A-3258 W L124 120TH. R.F. TRANS.
- A-3258 W L125 121TH. R.F. TRANS.
- A-3258 W L126 122TH. R.F. TRANS.
- A-3258 W L127 123TH. R.F. TRANS.
- A-3258 W L128 124TH. R.F. TRANS.
- A-3258 W L129 125TH. R.F. TRANS.
- A-3258 W L130 126TH. R.F. TRANS.
- A-3258 W L131 127TH. R.F. TRANS.
- A-3258 W L132 128TH. R.F. TRANS.
- A-3258 W L133 129TH. R.F. TRANS.
- A-3258 W L134 130TH. R.F. TRANS.
- A-3258 W L135 131TH. R.F. TRANS.
- A-3258 W L136 132TH. R.F. TRANS.
- A-3258 W L137 133TH. R.F. TRANS.
- A-3258 W L138 134TH. R.F. TRANS.
- A-3258 W L139 135TH. R.F. TRANS.
- A-3258 W L140 136TH. R.F. TRANS.
- A-3258 W L141 137TH. R.F. TRANS.
- A-3258 W L142 138TH. R.F. TRANS.
- A-3258 W L143 139TH. R.F. TRANS.
- A-3258 W L144 140TH. R.F. TRANS.
- A-3258 W L145 141TH. R.F. TRANS.
- A-3258 W L146 142TH. R.F. TRANS.
- A-3258 W L147 143TH. R.F. TRANS.
- A-3258 W L148 144TH. R.F. TRANS.
- A-3258 W L149 145TH. R.F. TRANS.
- A-3258 W L150 146TH. R.F. TRANS.
- A-3258 W L151 147TH. R.F. TRANS.
- A-3258 W L152 148TH. R.F. TRANS.
- A-3258 W L153 149TH. R.F. TRANS.
- A-3258 W L154 150TH. R.F. TRANS.
- A-3258 W L155 151TH. R.F. TRANS.
- A-3258 W L156 152TH. R.F. TRANS.
- A-3258 W L157 153TH. R.F. TRANS.
- A-3258 W L158 154TH. R.F. TRANS.
- A-3258 W L159 155TH. R.F. TRANS.
- A-3258 W L160 156TH. R.F. TRANS.
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- A-3258 W L169 165TH. R.F. TRANS.
- A-3258 W L170 166TH. R.F. TRANS.
- A-3258 W L171 167TH. R.F. TRANS.
- A-3258 W L172 168TH. R.F. TRANS.
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- A-3258 W L174 170TH. R.F. TRANS.
- A-3258 W L175 171TH. R.F. TRANS.
- A-3258 W L176 172TH. R.F. TRANS.
- A-3258 W L177 173TH. R.F. TRANS.
- A-3258 W L178 174TH. R.F. TRANS.
- A-3258 W L179 175TH. R.F. TRANS.
- A-3258 W L180 176TH. R.F. TRANS.
- A-3258 W L181 177TH. R.F. TRANS.
- A-3258 W L182 178TH. R.F. TRANS.
- A-3258 W L183 179TH. R.F. TRANS.
- A-3258 W L184 180TH. R.F. TRANS.
- A-3258 W L185 181TH. R.F. TRANS.
- A-3258 W L186 182TH. R.F. TRANS.
- A-3258 W L187 183TH. R.F. TRANS.
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- A-3258 W L191 187TH. R.F. TRANS.
- A-3258 W L192 188TH. R.F. TRANS.
- A-3258 W L193 189TH. R.F. TRANS.
- A-3258 W L194 190TH. R.F. TRANS.
- A-3258 W L195 191TH. R.F. TRANS.
- A-3258 W L196 192TH. R.F. TRANS.
- A-3258 W L197 193TH. R.F. TRANS.
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- A-3258 W L199 195TH. R.F. TRANS.
- A-3258 W L200 196TH. R.F. TRANS.
- A-3258 W L201 197TH. R.F. TRANS.
- A-3258 W L202 198TH. R.F. TRANS.
- A-3258 W L203 199TH. R.F. TRANS.
- A-3258 W L204 200TH. R.F. TRANS.
- A-3258 W L205 201TH. R.F. TRANS.
- A-3258 W L206 202TH. R.F. TRANS.
- A-3258 W L207 203TH. R.F. TRANS.
- A-3258 W L208 204TH. R.F. TRANS.
- A-3258 W L209 205TH. R.F. TRANS.
- A-3258 W L210 206TH. R.F. TRANS.
- A-3258 W L211 207TH. R.F. TRANS.
- A-3258 W L212 208TH. R.F. TRANS.
- A-3258 W L213 209TH. R.F. TRANS.
- A-3258 W L214 210TH. R.F. TRANS.
- A-3258 W L215 211TH. R.F. TRANS.
- A-3258 W L216 212TH. R.F. TRANS.
- A-3258 W L217 213TH. R.F. TRANS.
- A-3258 W L218 214TH. R.F. TRANS.
- A-3258 W L219 215TH. R.F. TRANS.
- A-3258 W L220 216TH. R.F. TRANS.
- A-3258 W L221 217TH. R.F. TRANS.
- A-3258 W L222 218TH. R.F. TRANS.
- A-3258 W L223 219TH. R.F. TRANS.
- A-3258 W L224 220TH. R.F. TRANS.
- A-3258 W L225 221TH. R.F. TRANS.
- A-3258 W L226 222TH. R.F. TRANS.
- A-3258 W L227 223TH. R.F. TRANS.
- A-3258 W L228 224TH. R.F. TRANS.
- A-3258 W L229 225TH. R.F. TRANS.
- A-3258 W L230 226TH. R.F. TRANS.
- A-3258 W L231 227TH. R.F. TRANS.
- A-3258 W L232 228TH. R.F. TRANS.
- A-3258 W L233 229TH. R.F. TRANS.
- A-3258 W L234 230TH. R.F. TRANS.
- A-3258 W L235 231TH. R.F. TRANS.
- A-3258 W L236 232TH. R.F. TRANS.
- A-3258 W L237 233TH. R.F. TRANS.
- A-3258 W L238 234TH. R.F. TRANS.
- A-3258 W L239 235TH. R.F. TRANS.
- A-3258 W L240 236TH. R.F. TRANS.
- A-3258 W L241 237TH. R.F. TRANS.
- A-3258 W L242 238TH. R.F. TRANS.
- A-3258 W L243 239TH. R.F. TRANS.
- A-3258 W L244 240TH. R.F. TRANS.
- A-3258 W L245 241TH. R.F. TRANS.
- A-3258 W L246 242TH. R.F. TRANS.
- A-3258 W L247 243TH. R.F. TRANS.
- A-3258 W L248 244TH. R.F. TRANS.
- A-3258 W L249 245TH. R.F. TRANS.
- A-3258 W L250 246TH. R.F. TRANS.
- A-3258 W L251 247TH. R.F. TRANS.
- A-3258 W L252 248TH. R.F. TRANS.
- A-3258 W L253 249TH. R.F. TRANS.
- A-3258 W L254 250TH. R.F. TRANS.
- A-3258 W L255 251TH. R.F. TRANS.
- A-3258 W L256 252TH. R.F. TRANS.
- A-3258 W L257 253TH. R.F. TRANS.
- A-3258 W L258 254TH. R.F. TRANS.
- A-3258 W L259 255TH. R.F. TRANS.
- A-3258 W L260 256TH. R.F. TRANS.
- A-3258 W L261 257TH. R.F. TRANS.
- A-3258 W L262 258TH. R.F. TRANS.
- A-3258 W L263 259TH. R.F. TRANS.
- A-3258 W L264 260TH. R.F. TRANS.
- A-3258 W L265 261TH. R.F. TRANS.
- A-3258 W L266 262TH. R.F. TRANS.
- A-3258 W L267 263TH. R.F. TRANS.
- A-3258 W L268 264TH. R.F. TRANS.
- A-3258 W L269 265TH. R.F. TRANS.
- A-3258 W L270 266TH. R.F. TRANS.
- A-3258 W L271 267TH. R.F. TRANS.
- A-3258 W L272 268TH. R.F. TRANS.
- A-3258 W L273 269TH. R.F. TRANS.
- A-3258 W L274 270TH. R.F. TRANS.
- A-3258 W L275 271TH. R.F. TRANS.
- A-3258 W L276

STEWART-WARNER MODEL 1121 AUTO RADIO (112 CHASSIS)

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



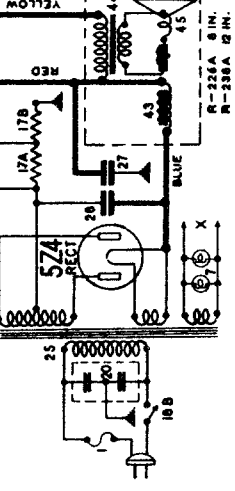
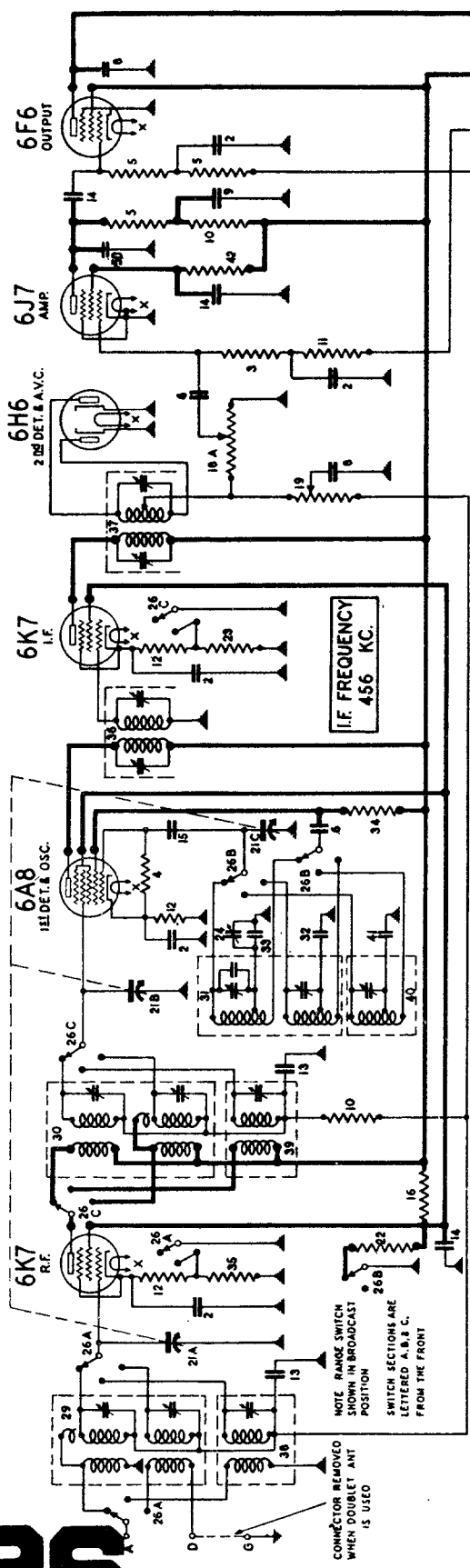
TUBE LOCATIONS



FRONT OF SET

I. F. FREQUENCY 456 K. C.

Tube Type	Position in Circuit	Filament Voltage	Plate Voltage	Screen (Bias) Grid Voltage	Cathode (Bias) Voltage
6A7	1st Det. & Osc.	5.5	144	70	1.4
78	I. F.	5.5	144	70	2.0
75	2nd Det.	5.5	60	—	1.0
41	Output	5.5	142	144	9.0
84	Rect.	5.5	—	—	179



R-136 PARTS LIST

Diagram No.	Part No.	DESCRIPTION
1	38841	Fuse, 1 amp.
2	81630	1 mfd. 175 volt paper condenser.
3	85072	51,000 ohm 1/4 watt carbon resistor.
4	85080	51,000 ohm 1/4 watt carbon resistor.
5	85082	260,000 ohm 1/4 watt carbon resistor.
6	85219	0.1 mfd. 600 volt paper condenser.
7	85278	Dial lamp 6.3 volt.
8	85476	.006 mfd. 600 volt paper condenser.
9	84198	1 mfd. 200 volt paper condenser.
10	84288	1.1 megohm 1/4 watt carbon resistor.
11	84312	Output transformer (R-225-A 8" spkr.).
12	84504	Diaphragm and shell assembly (R-225-A 8" spkr.).
13	84505	Field coil assembly (R-225-A 8" spkr.).
14	84508	300 ohm 1/4 watt wire wound resistor.
15	85059	0.5 mfd. 300 volt paper condenser.
16	85061	.000031 mfd. mica condenser.
17-A	85063	15,000 ohm 2 watt carbon resistor.
17-B	85067	275 ohm wire wound bias resistor (one unit) { 25 ohm wire wound bias resistor }

SOCKET VOLTAGES

Diagram No.	Part No.	DESCRIPTION
18-A	85073	{ 250,000 ohm volume control } one unit.
19	85074	500,000 ohm tone control.
20	85075	Dual .01 mfd. 750 volt A.C. paper cond.
21A to C	85084	3 Gang variable condenser.
22	85116	25,000 ohm 1/2 watt carbon resistor.
23	85117	1,000 ohm 1/2 watt carbon resistor.
24	85285	Padding trimmer.
25	85428	Power trans. 115 V 60 cycle (136-A only)
26A to C	85429	Three deck range switch.
27	85430	16 mfd. 300 volt electrolytic condenser.
28	85431	16 mfd. 400 volt electrolytic condenser.
29	85432	Antenna coil and shield assembly (B & No. 3 S.W.)
30	85433	R. F. coil and shield assembly (B & No. 3 S.W.)
31	85434	Oscillator coil and shield assembly (B & No. 3 S.W.)
32	85440	.00351 mfd. mica condenser.
33	85441	.00042 mfd. mica condenser.
34	85442	21,000 ohm 1/2 watt carbon resistor.
35	85443	2,000 ohm 1/2 watt carbon resistor.
36	85452	1st I.F. transformer
37	85453	2nd I.F. transformer
38	85455	Antenna coil assembly (No. 2 S.W.)
39	85456	R.F. coil assembly (No. 2 S.W.)
40	85457	Oscillator coil assembly (No. 2 S.W.)
41	85467	.00137 mfd. mica condenser.
42	85472	1.6 megohm 1/4 watt carbon resistor.
43	85478	Field coil assembly (R-236-A spkr.).
44	85482	Output transformer (R-236-A 12" spkr.).
45	85592	Diaphragm and shell assembly (R-236-A 12" spkr.).
50	84376	.000111 mfd. mica condenser.

SOCKET VOLTAGES

LINE VOLTAGE 115 VOLTS Value Control on Full ANTENNA GROUNDED RANGE SWITCH SET ON BROADCAST POSITION DIAL TUNED TO 940 KC.

REAR OF CHASSIS

OUTPUT

6F6

5Z4

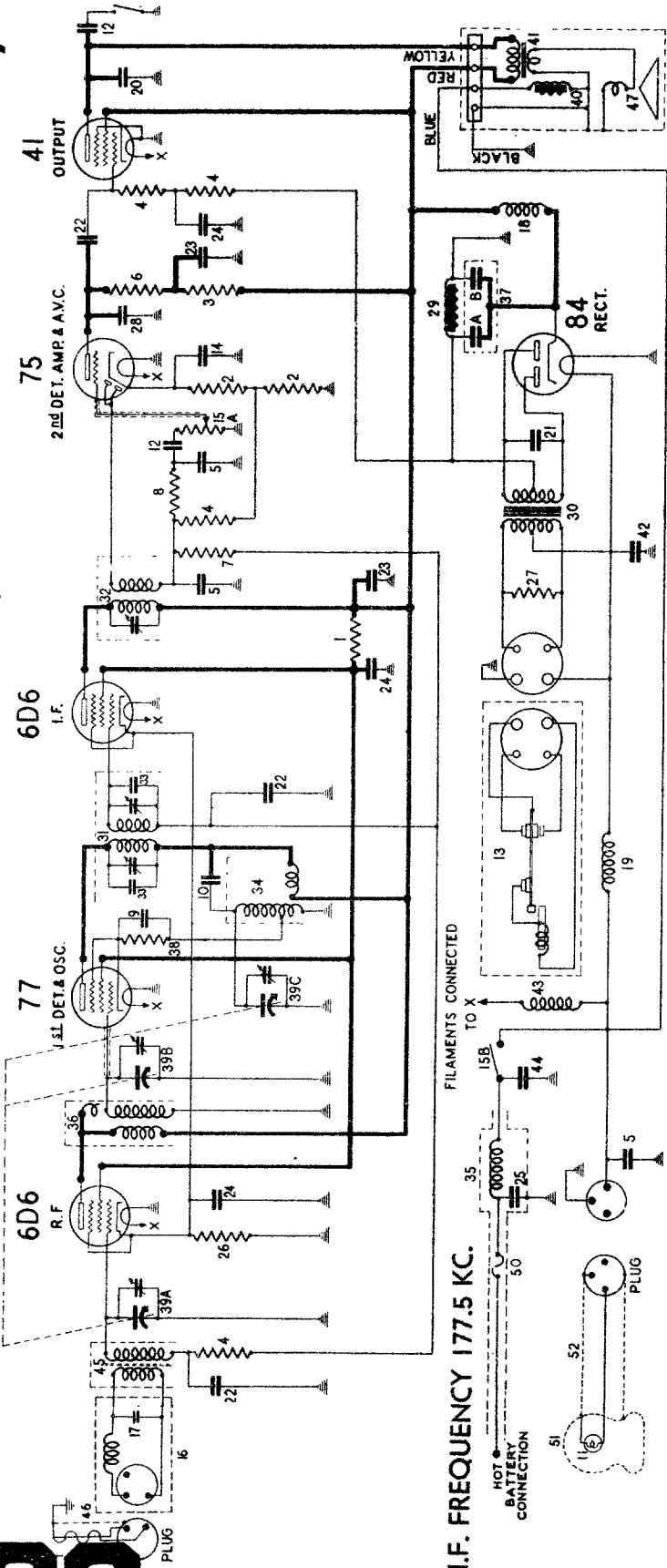
RECT.

25DET & AVC.

VOLTAGES MEASURED BETWEEN SOCKET TERMINALS AND CHASSIS

IMPORTANT: Use a high resistance meter of 1000 ohms per volt. NOTE A: The grid bias on the 6F6 output tube is —16.5 volts, measured across the resistors 17A and 17B. NOTE B: The grid bias on the 6J7 amplifier tube is —1.7 volts measured across resistor 17B. Speaker field resistance is 1500 ohms with coil warm.

STEWART-WARNER MODEL R-160 AUTO RADIO CHASSIS (RECEIVER MODELS 1601 to 1609)



I.F. FREQUENCY 177.5 KC.

THESE VOLTAGES MEASURED BETWEEN SOCKET TERMINALS AND CHASSIS

BATTERY VOLTAGE 6.0

ABBREVIATIONS

DIODE
D. O.
GRID
G.
HEATER
H. K.
CATHODE
H. O.
P. P.
S.G. SCREEN GRID
SUP. SUPPRESSOR GRID

IF: H. D., H. S. 7, K. 7, SUP. 7, S.G. 110, P. 240

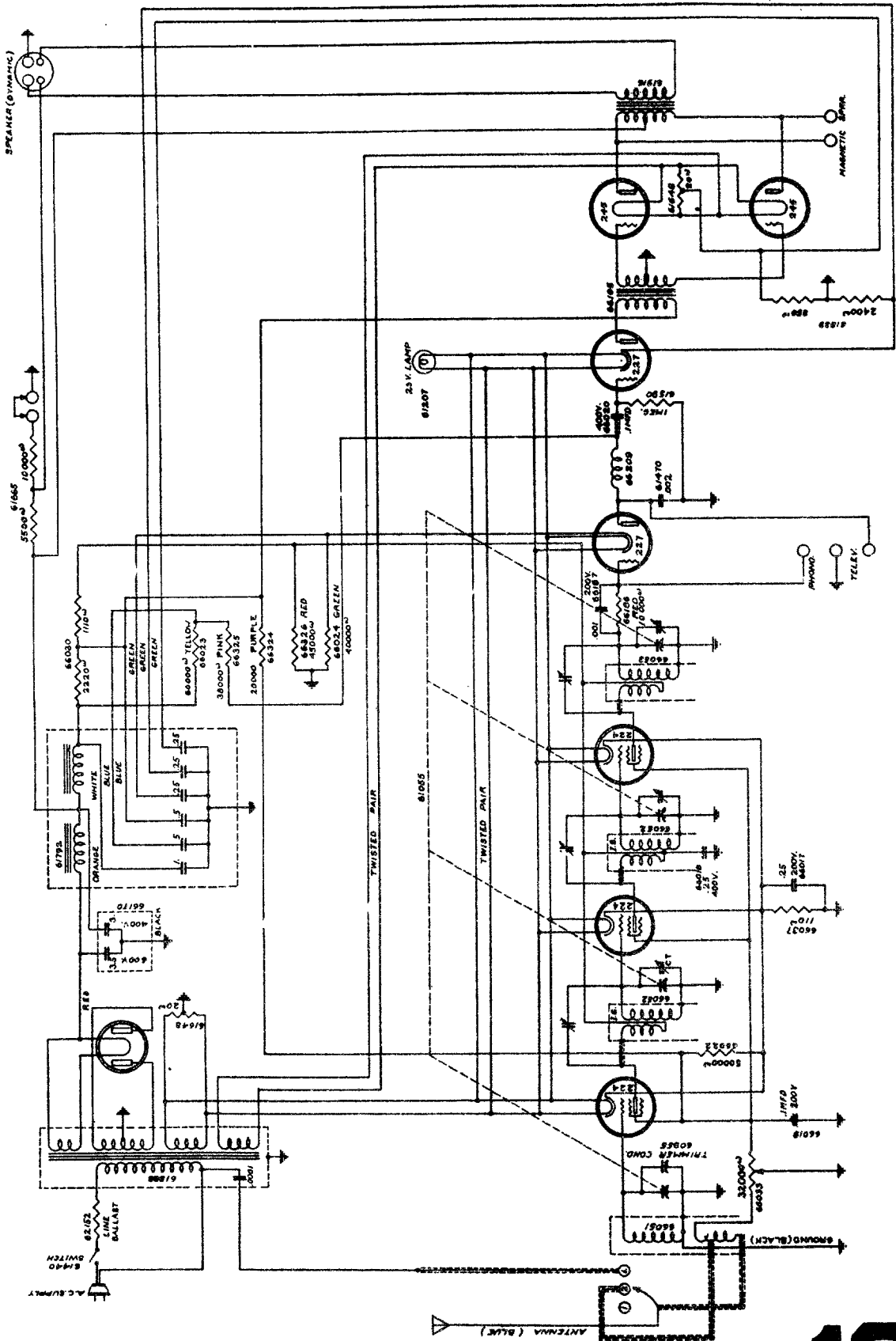
MIXDET & OSC: H. O., H. S. 7, K. 5.7, K. 6.3, SUP. 0, S.G. 110, P. 240

RECT: P. 240A.C., K. 240, H. O., H. S. 7, P. 240A.C.

OUTPUT: K. 15, D. O., P. 234, H. O., P. 240, S.G. 240, K. O.

- 1 66023 60,000 ohm 1 watt carbon resistor.
- 2 67303 2,000 ohm 1/4 watt carbon resistor.
- 3 83080 51,000 ohm 1/4 watt carbon resistor.
- 4 83082 260,000 ohm 1/4 watt carbon resistor.
- 5 83539 260 mmfd. mica condenser.
- 6 83777 Battery cable and fuse housing.
- 7 84198 110,000 ohm 1/4 watt carbon resistor.
- 8 84235 1.1 megohm 1/4 watt carbon resistor.
- 9 84238 11,000 ohm 1/4 watt carbon resistor.
- 10 81282 .001 mfd. mica condenser.
- 11 81833 70 mmfd. mica condenser.
- 12 85296 Pilot lamp 6-8 volt (bayonet base).
- 13 88026 .02 mfd. 400 volt paper condenser.
- 14 88054 Tone control switch.
- 15 88156 Vibrator.
- 15A 88170 10 mfd. 25 volt electrolytic condenser.
- 15B (Volume control 500,000 ohm)
- 16 88171 Antenna Filter.
- 17 88173 50 mmfd. mica condenser.
- 18 88181 R. F. choke coil.
- 19 88183 R. F. choke coil (to vibrator).
- 20 88185 .006 mfd. 600 volt paper condenser.
- 21 88187 .01 mfd. 1500 volt paper condenser.
- 22 88189 .05 mfd. 200 volt paper condenser.
- 23 88191 1 mfd. 300 volt paper condenser.
- 24 88193 .25 mfd. 150 volt paper condenser.
- 25 88195 .5 mfd. 150 volt paper condenser.
- 26 88203 600 ohm 1/4 watt carbon resistor.
- 27 88204 210 ohm 1/2 watt carbon resistor.
- 28 88205 .0021 mfd. mica condenser.
- 29 88210 Filter choke.
- 30 88213 Power transformer.
- 31 88222 2nd I.F. transformer.
- 32 88223 110 mmfd. mica condenser.
- 33 88233 Oscillator coil and shield assembly.
- 34 88234 "A" filter.
- 35 88239 R.F. coil and shield assembly.
- 36 88250 (Electrolytic condenser 4 mfd. 350 volt)
- 37A 88256 (Electrolytic condenser 8 mfd. 350 volt)
- 37B 9,500 ohm 1/4 watt carbon resistor.
- 38 88237 Three gang variable condenser.
- 39A to C 88258 Field coil and housing (for R-245-A spkr.).
- 40 88276 Output transformer.
- 41 88285 1.25 mfd. 150 volt paper condenser.
- 42 88289 R.F. choke (to filaments).
- 43 .25 mfd. 150 volt paper condenser (low reactance).
- 44 88298 Antenna coil and shield assem. (iron core).
- 45 88312 Antenna cable and plug.
- 46 88327 Diaphragm and shell assem. (R-245-A spkr.)
- 47 88328 Battery cable and fuse housing.
- 48 83777 Tone control switch.
- 49 88054 Fuse, 10 amperes.
- 50 88265 Control head less shafts.
- 51 88730 Pilot light cable with plug. 31"
- 52 88738

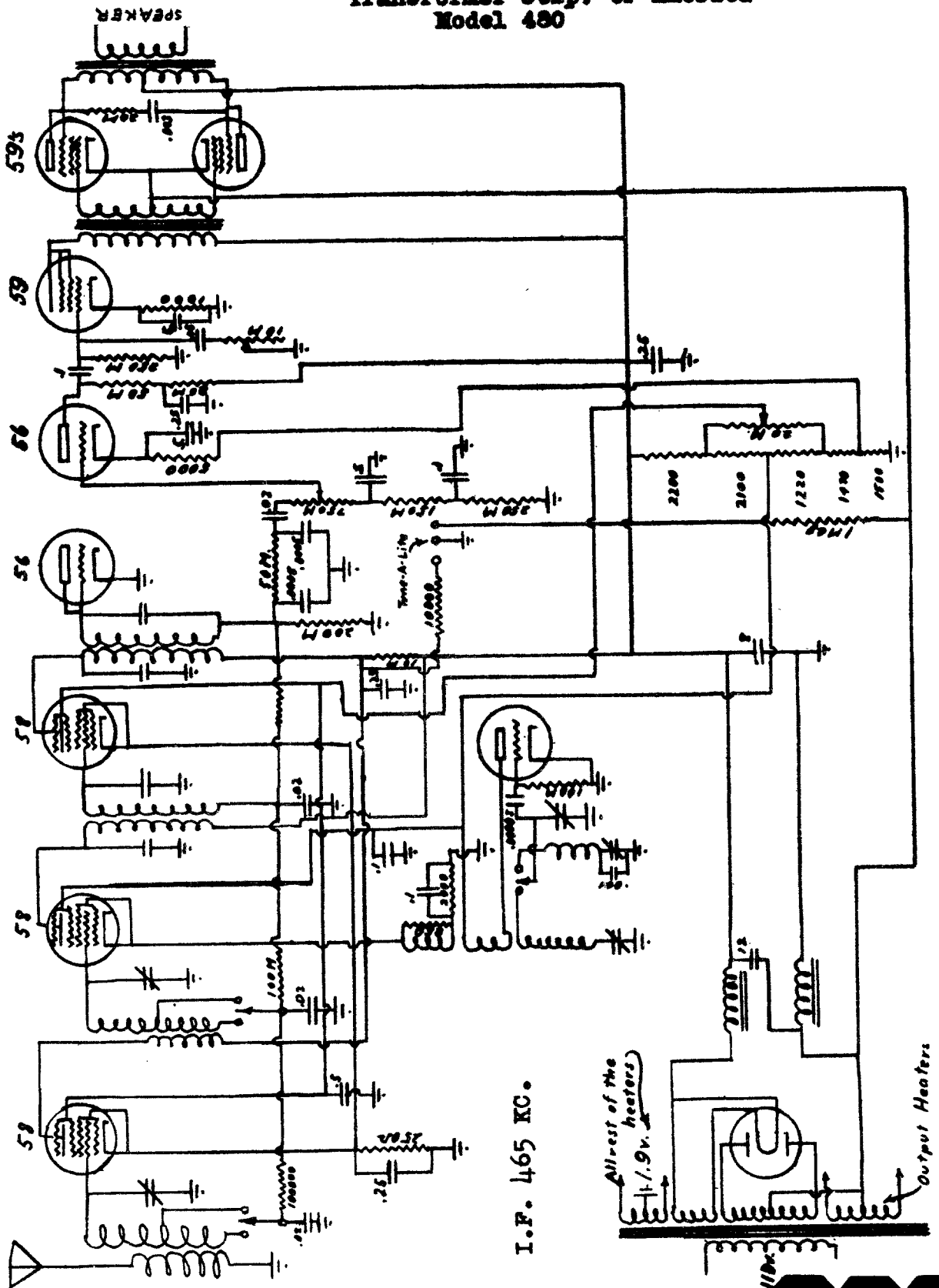
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



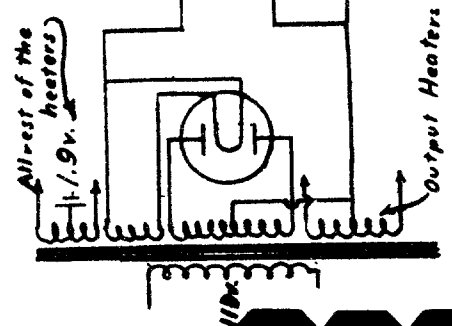
Stewart-Warner 950 Series A. C. Radio Receivers

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

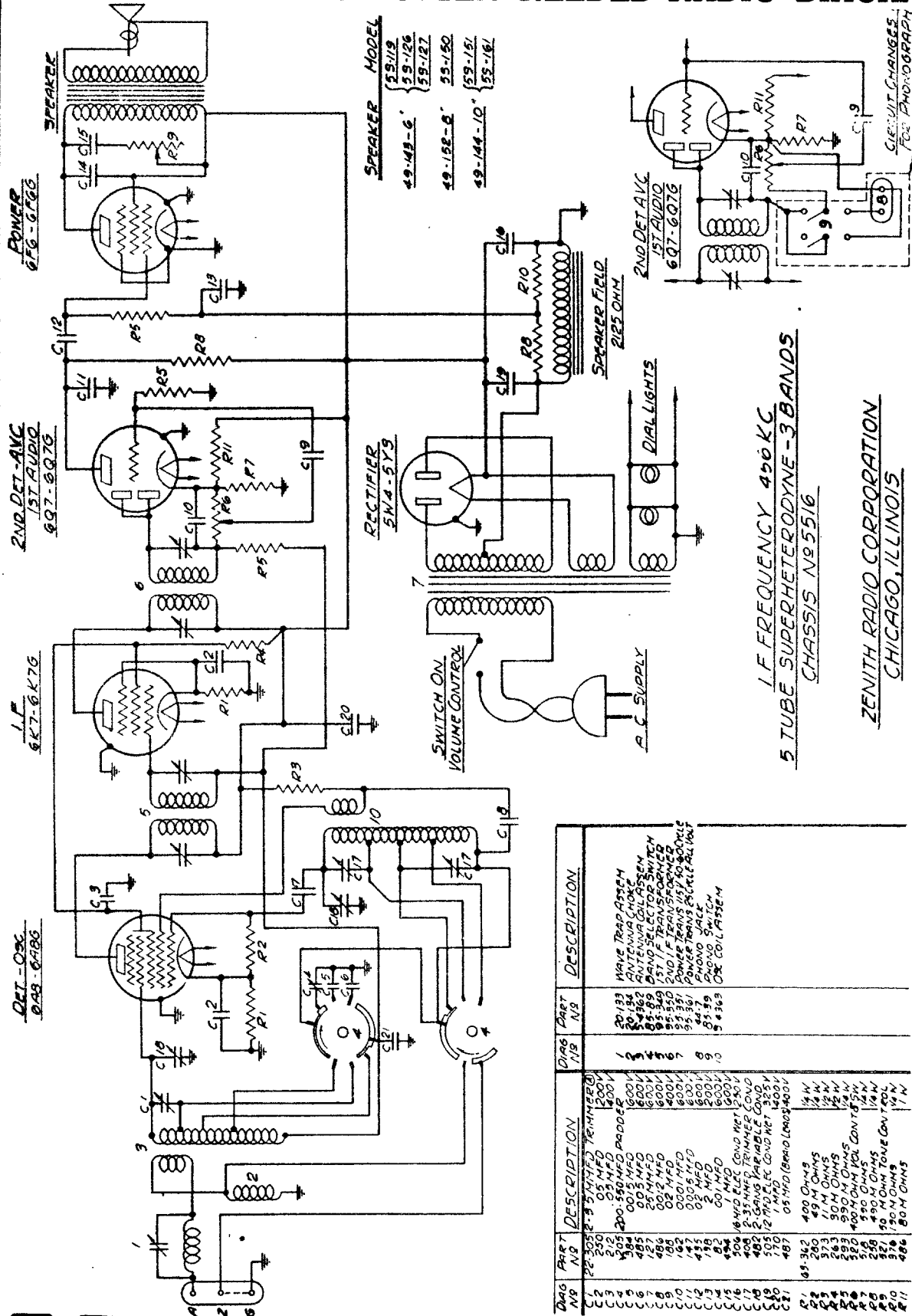
Transformer Corp. of America
Model 480



I.F. 465 KC.



MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



SPEAKER MODEL

5S-119	5S-126	5S-127
49-148-6	49-152-6	49-151
49-152-6	49-144-10	5S-151
		5S-151

I.F. FREQUENCY 450 KC
5 TUBE SUPERHETERODYNE-3 BANDS
CHASSIS NO 5516

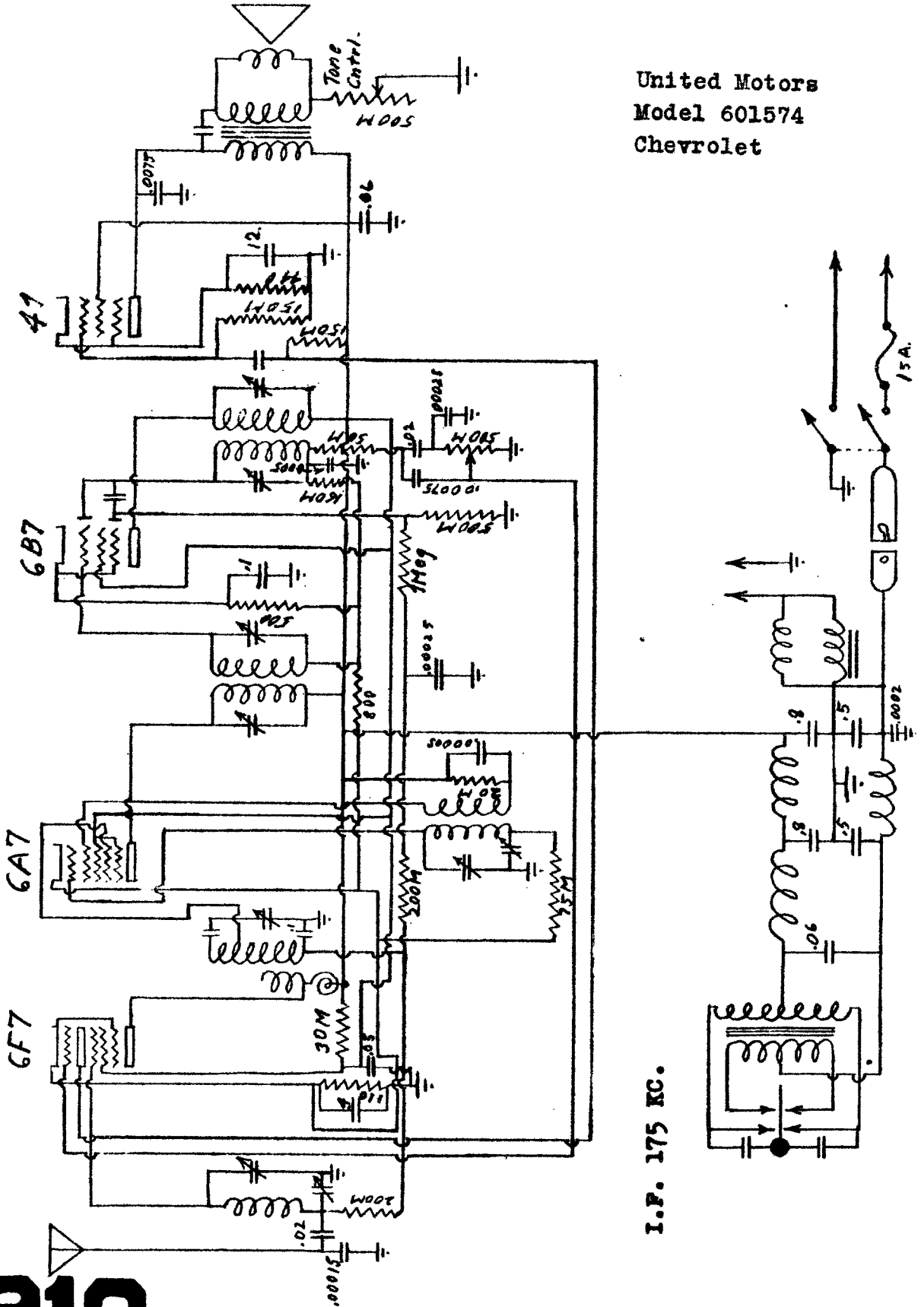
ZENITH RADIO CORPORATION
CHICAGO, ILLINOIS

DIAG. NO.	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
1	20-133	WAVE TRAP ASSEMBLY	20-133	WAVE TRAP ASSEMBLY
2	20-134	ANTENNA COIL ASSEMBLY	20-134	ANTENNA COIL ASSEMBLY
3	54-352	BAND SELECTOR SWITCH	54-352	BAND SELECTOR SWITCH
4	85-89	1ST I.F. TRANSFORMER	85-89	1ST I.F. TRANSFORMER
5	91-550	2ND I.F. TRANSFORMER	91-550	2ND I.F. TRANSFORMER
6	91-551	PHONO TRANSFORMER	91-551	PHONO TRANSFORMER
7	44-7	PHONO JACK	44-7	PHONO JACK
8	85-59	PHONO SWITCH	85-59	PHONO SWITCH
9	5-4363	OSC. COIL ASSEMBLY	5-4363	OSC. COIL ASSEMBLY
10	400 Ohms	400 OHMS	400 Ohms	400 OHMS
11	49 M Ohms	49 M OHMS	49 M Ohms	49 M OHMS
12	283	283 OHMS	283	283 OHMS
13	90 M Ohms	90 M OHMS	90 M Ohms	90 M OHMS
14	590 Ohms	590 OHMS	590 Ohms	590 OHMS
15	400 M Ohm Vol. Cont.	400 M OHM VOL. CONT.	400 M Ohm Vol. Cont.	400 M OHM VOL. CONT.
16	580 Ohms	580 OHMS	580 Ohms	580 OHMS
17	50 Ohm Tone Cont.	50 OHM TONE CONT.	50 Ohm Tone Cont.	50 OHM TONE CONT.
18	150 M Ohms	150 M OHMS	150 M Ohms	150 M OHMS
19	80 M Ohms	80 M OHMS	80 M Ohms	80 M OHMS

Models 5-S-119, 5-S-126, 5-S-127, 5-S-150, 5-S-151, 5-S-161. (Chassis No. 5516)

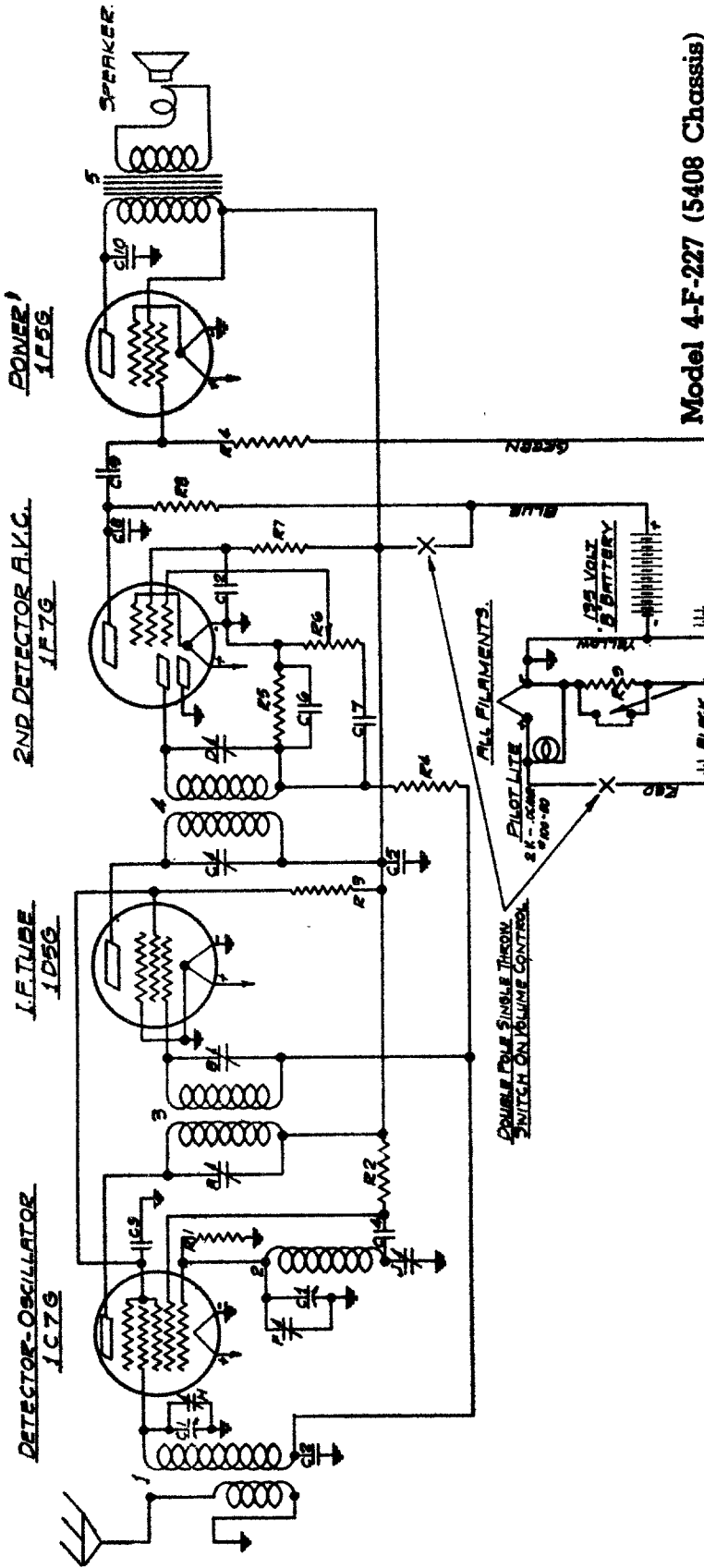
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

United Motors
Model 601574
Chevrolet



I.F. 175 KC.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



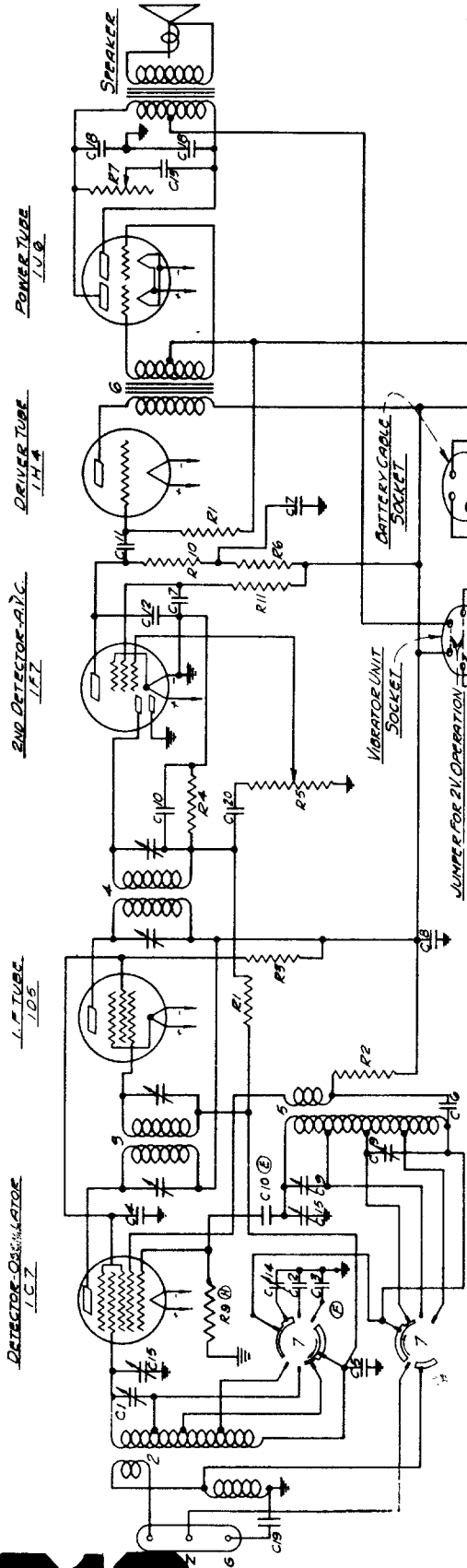
Model 4-F-227 (5408 Chassis)

CLOSE FOR 2 VOLT STORAGE CELL OPERATION - OPEN FOR 4 1/2 VOLT C BATTERY

I.F. FREQUENCY 456 K.C.
 4 TUBE BATTERY SUPERHETERODYNE
 CHASSIS NR 5408
 ZENITH RADIO CORPORATION

Part No	Description	Part No	Description
C1	500K	1	5 5100 ANT. COIL & SHIELD ASSEMBLY
C2	500K	2	5 4662 OSCILLATOR COIL ASSEMBLY
C3	100K	3	95-470 1ST. I.F. TRANSFORMER
C4	100K	4	95-480 2ND. I.F. TRANSFORMER
C5	100K	5	95-480 3RD. I.F. TRANSFORMER
C6	100K	6	Variable Tuning Eye Switch
C7	100K	7	1ST. I.F. TRANSFORMER PRIMARY
C8	100K	8	2ND. I.F. TRANSFORMER PRIMARY
C9	100K	9	3RD. I.F. TRANSFORMER PRIMARY
C10	100K	10	BROADCAST OSCILLATOR (ON CHASSIS)
R1	47M OHM	11	ANTENNA BROADCAST (ON CHASSIS)
R2	600 OHM	12	122-519 OSCILLATOR PHOSPHOR
R3	59M OHM	Model	SPEAKER
R4	1.2K OHM	40-203	6"
R5	1.2K OHM	4P-227	
R6	1.2K OHM		
R7	1.2K OHM		
R8	1.2K OHM		
R9	1.2K OHM		
R10	1.2K OHM		

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



DETECTOR-OSCILLATOR
1C7

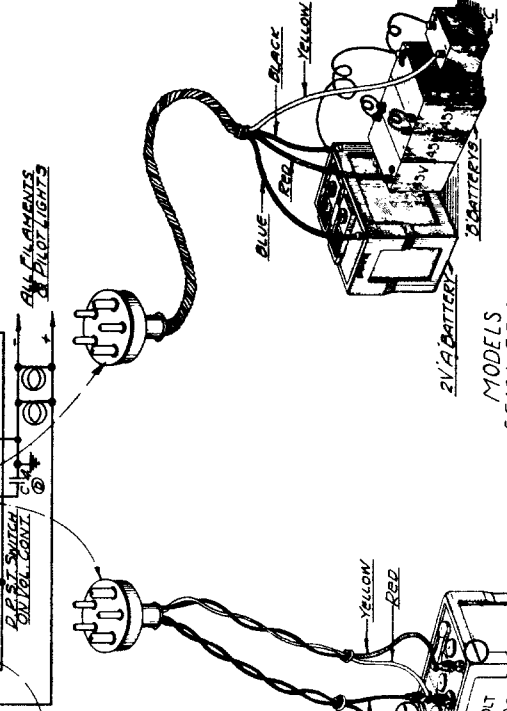
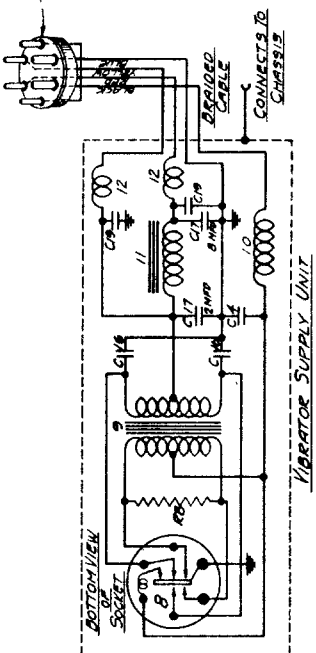
L.F. TUBE
1O5

2ND DETECTOR-A.F.C.
1F7

CONVERTER TUBE
1H4

POWER TUBE
1U6

VIBRATOR SUPPLY UNIT
RESISTOR PLUS FOR 2V AIR CELL OPERATION
BALLAST TUBE FOR 5V DRY CELL OPERATION



SPEAKER MODEL
49-102-02PH 5F-134
49-104-02PH 5F-166

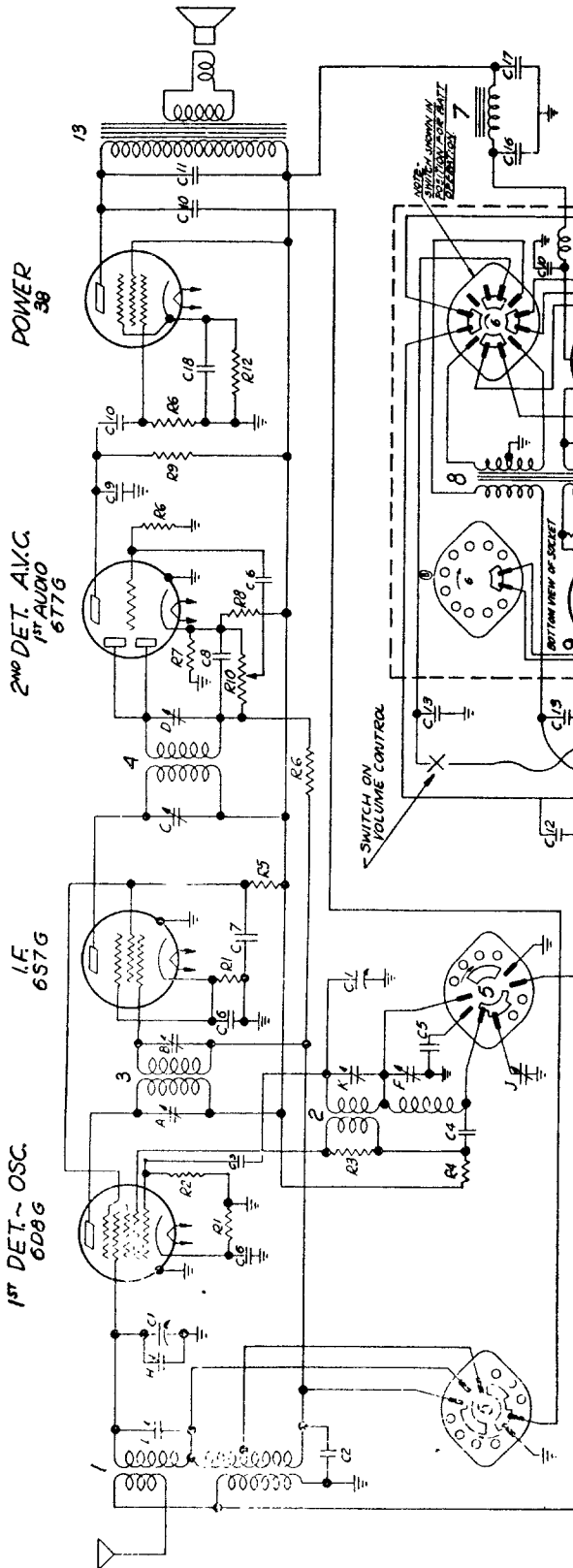
2V BATTERY
MODELS
5F134-5F166
1.6 FREQUENCY 456 KC.
5 TUBE BATTERY SUPERHETERODYNE
CHASSIS NO 5518

ZENITH RADIO CORPORATION

REF.	DESCRIPTION	VAL.
R1	250 OHMS	1/4 W.
R2	100 OHMS	1/4 W.
R3	100 OHMS	1/4 W.
R4	100 OHMS	1/4 W.
R5	100 OHMS	1/4 W.
R6	100 OHMS	1/4 W.
R7	100 OHMS	1/4 W.
R8	100 OHMS	1/4 W.
R9	100 OHMS	1/4 W.
R10	100 OHMS	1/4 W.
R11	100 OHMS	1/4 W.
C1	50 MFD	1/4 W.
C2	50 MFD	1/4 W.
C3	50 MFD	1/4 W.
C4	50 MFD	1/4 W.
C5	50 MFD	1/4 W.
C6	50 MFD	1/4 W.
C7	50 MFD	1/4 W.
C8	50 MFD	1/4 W.
C9	50 MFD	1/4 W.
C10	50 MFD	1/4 W.
C11	50 MFD	1/4 W.
C12	50 MFD	1/4 W.
C13	50 MFD	1/4 W.
C14	50 MFD	1/4 W.
C15	50 MFD	1/4 W.
C16	50 MFD	1/4 W.
C17	50 MFD	1/4 W.
C18	50 MFD	1/4 W.
C19	50 MFD	1/4 W.
C20	50 MFD	1/4 W.

REF.	DESCRIPTION	VAL.
1	ANTENNA COIL ASSEMBLY	1/4 W.
2	5-4115	1/4 W.
3	5-4115	1/4 W.
4	5-4115	1/4 W.
5	5-4115	1/4 W.
6	5-4115	1/4 W.
7	5-4115	1/4 W.
8	5-4115	1/4 W.
9	5-4115	1/4 W.
10	5-4115	1/4 W.
11	5-4115	1/4 W.
12	5-4115	1/4 W.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



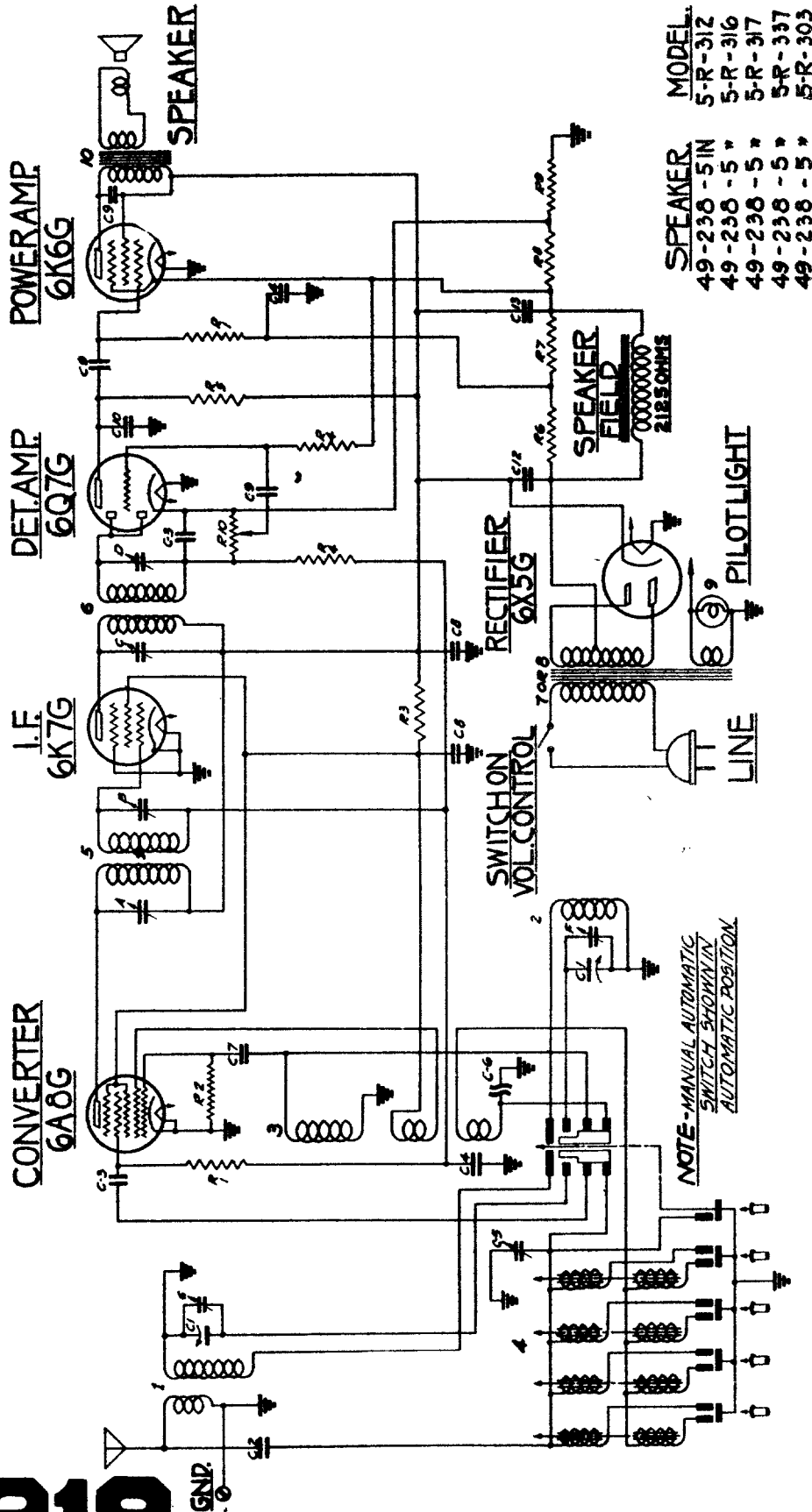
PART	DESCRIPTION	PART	DESCRIPTION
C1	22-593	R1	63-632
C2	22-487	R2	63-593
C3	22-589	R3	63-595
C4	22-590	R4	63-590
C5	22-593	R5	63-591
C6	22-290	R6	63-634
C7	22-182	R7	63-160
C8	22-147	R8	63-597
C9	22-212	R9	63-629
C10	22-492	R10	63-553
C11	22-350	R11	63-553
C12	22-435	R12	63-418
C13	22-374	R13	63-577
C14	22-155		
C15	22-577		
C16	22-577		
C17	22-577		
C18	22-577		
C19	22-577		
L1	100 OHM	L2	100 OHM
L2	100 OHM	L3	100 OHM
L3	100 OHM	L4	100 OHM
L4	100 OHM	L5	100 OHM
L5	100 OHM	L6	100 OHM
L6	100 OHM	L7	100 OHM
L7	100 OHM	L8	100 OHM
L8	100 OHM	L9	100 OHM
L9	100 OHM	L10	100 OHM
L10	100 OHM	L11	100 OHM
L11	100 OHM		
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L96	100 OHM		
L97	100 OHM		
L98	100 OHM		
L99	100 OHM		
L100	100 OHM		

I.F. FREQUENCY 456 K.C.
 5 TUBE BATTERY SUPERHETERODYNE
 6 VOLT D.C. #115 VOLT A.C.
 CHASSIS No 5524

ZENITH RADIO CORP.

Models 5-J-217, 5-J-247, 5-J-255 (5524 Chassis)

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

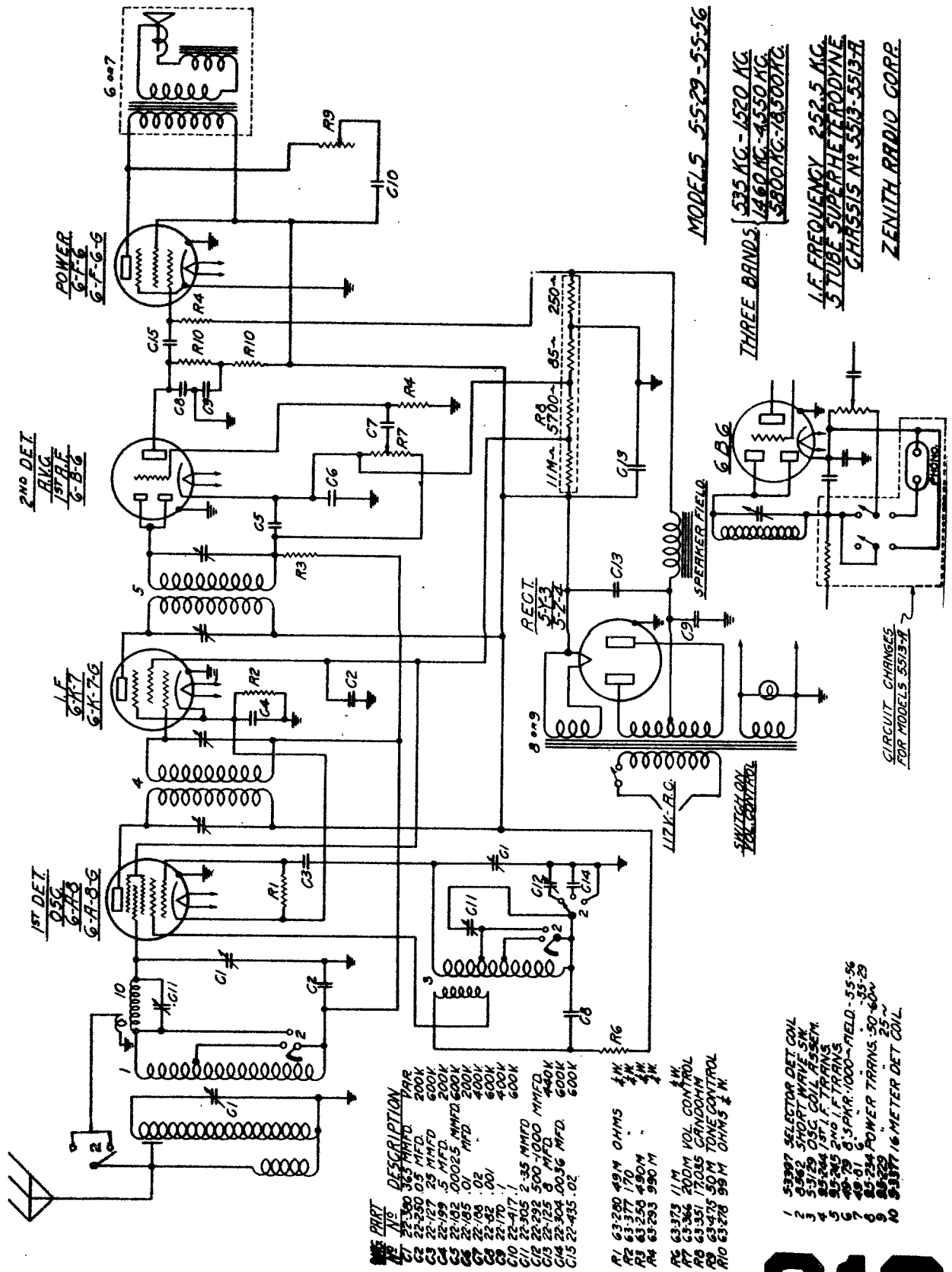


SPEAKER MODEL:
 49-238 - 5IN 5-R-312
 49-238 - 5 " 5-R-316
 49-238 - 5 " 5-R-317
 49-238 - 5 " 5-R-337
 49-238 - 5 " 5-R-303

I.F. FREQUENCY 455 K.C.
5 TUBE SUPERHETERODYNE
CHASSIS NO 5528 A.C.
ZENITH RADIO CORPORATION

PART NO.	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION
C-1 22-695	750 6A8G IAR CONO	1	R-1 63-597	470 M OHM	1 3T I.F. TRANS.
C-2 22-289	50 M MFD	1	R-2 63-593	47 M OHM	2 2ND I.F. TRANS.
C-3 22-162	.001 MFD	1	R-3 63-208	12 M OHM	2 1ST I.F. TRANS. (WITH 1P-60)
C-4 22-250	.05 MFD	1	R-4 63-271	1 MEG OHM	93-520 POWER TRANS.
C-5 22-519	TRIMMER CONO	1	R-5 63-296	220 M OHM	93-521 POWER TRANS.
C-6 22-729	COMPENSATING CONO	1	R-6 63-650	300 M OHM	93-523 POWER TRANS.
C-7 22-182	.00015 MFD	1	R-7 63-280	100 M OHM	100-36 PILOT LIGHT
C-8 22-212	.05 MFD	1	R-8 63-585	100 OHM WIRE WOUND	5A 6.3V SPEAKER TRANS.
C-9 22-196	.01 MFD	1	R-9 63-686	100 OHM WIRE WOUND	
C-10 22-147	.0003 MFD	1	R-10 63-955	220 M OHM 1/2L CRNT.	
C-11 22-891	6 MFD ELECTROLYTIC	1	5-5008	ANTENNA COIL AR54A	1 3T I.F. TRANS. PRI.
C-12 22-892	8 MFD ELECTROLYTIC	1	5-6039	OSC. COIL AR54B	2 2ND I.F. TRANS. PRI.
C-13 22-893	8 MFD ELECTROLYTIC	1	50-117	COMPENSATING COIL	2 2ND I.F. TRANS. SEC.
					2 2ND I.F. TRANS. SEC.
					BAROCAST OSC. (BY 6A8G)
					ANTENNA BRD CRIST (BY 6A8G)

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



MODELS 55-29-55-56
 THREE BRANDS
 535 KC-1520 KC
 1460 KC-4550 KC
 5800 KC-18500 KC
 16 FREQUENCY 252.5 KC
 5 TUBE SUPERHETERODYNE
 CHASSIS NO. 5513-5513-H
 ZENITH RADIO CORP.

2ND DET
 6-B-6
 1ST AF
 6-K-7
 6-F-6
 6-A-8

1ST DET
 6-A-8
 6-K-7
 6-F-6

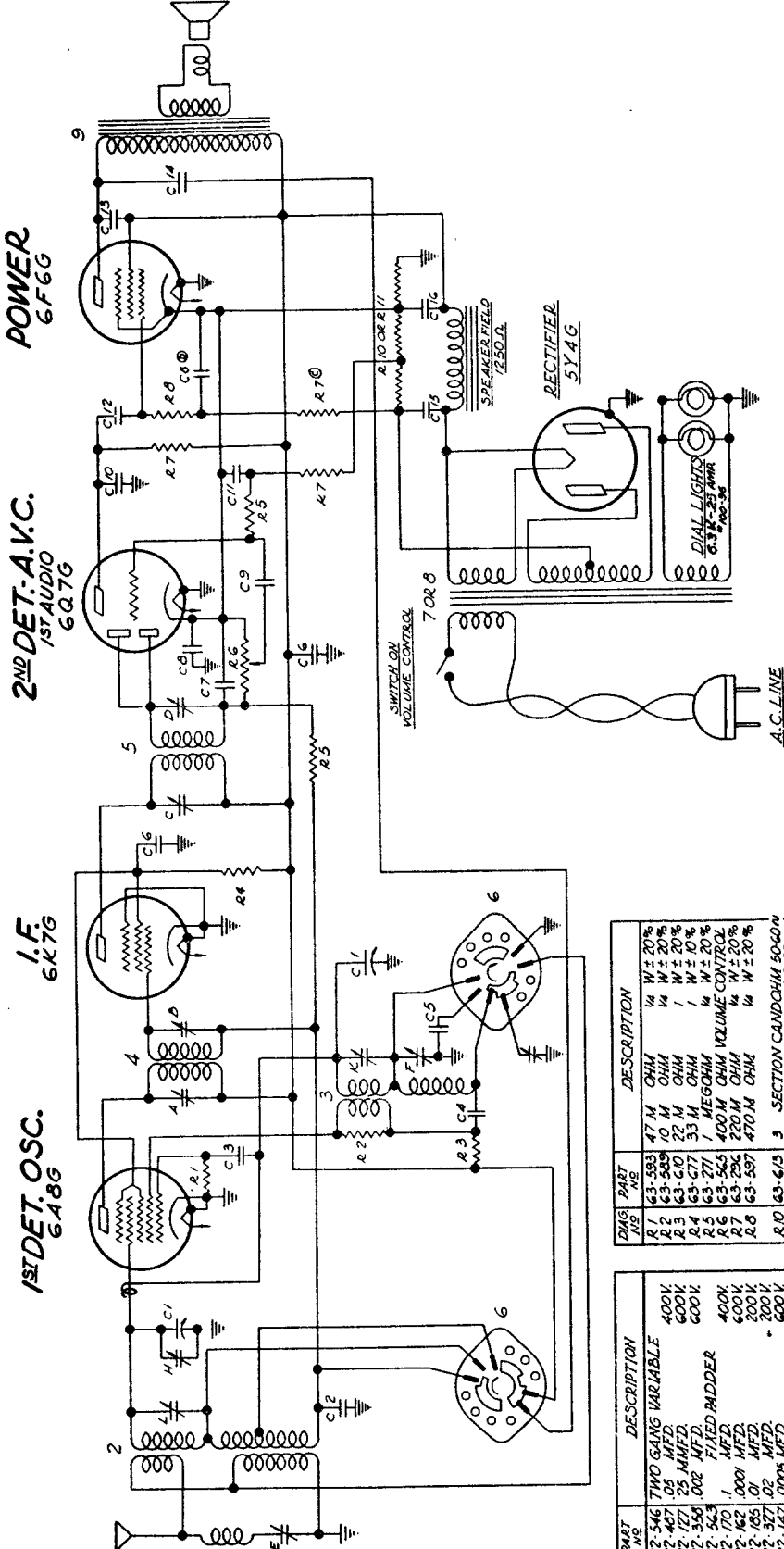
CIRCUIT CHANGES
 FOR MODELS 5513-H

PART NO.	DESCRIPTION	PAR
C1	22-300 36.5 MFD.	200K
C2	22-250 0.5 MFD.	600K
C3	22-127 25 MFD.	200K
C4	22-199 .5 MFD.	200K
C5	22-102 00025 M MFD.	600K
C6	22-185 .01 MFD.	200K
C7	22-108 .02	400K
C8	22-56 .001	400K
C9	22-107 .1	400K
C10	22-307 2-35 M MFD.	600K
C11	22-329 500 1000 M MFD.	400K
C12	22-726 200 MFD.	400K
C13	22-304 0.56 MFD.	600K
C14	22-304 0.56 MFD.	600K
C15	22-435 .02	600K
R1	63-280 49 M OHMS	4W
R2	63-377 170	4W
R3	63-250 480 M	4W
R4	63-293 980 M	4W
R5	63-373 11M	4W
R6	63-366 200M VOL CONTROL	4W
R7	63-351 170.85 GANDOHM	4W
R8	63-475 50 M TONE CONTROL	4W
R9	63-278 98 M OHMS	4W
R10	63-278 98 M OHMS	4W

- 53297 SELECTOR DET COIL
- 6462 SHORT WAVE SW
- 5-1150 100V 1/2 COIL ASSEM.
- 63-364 2ND I.F. TRANS.
- 65-362 2ND I.F. TRANS.
- 49-70 6.5 SPAR. 1000-FIELD-55-56
- 49-71 6.5 SPAR. 1000-FIELD-55-56
- 85-234 POWER TRANS. 50-60V
- 85-229 16 METER DET COIL
- 53377 16 METER DET COIL

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

Models 5-S-201, 5-S-218, 5-S-220, 5-S-228, 5-S-237, 5-S-250, 5-S-252
(5521 Chassis)



I.F.-FREQUENCY 456K.C.
5TUBE SUPERHETERODYNE
2 BAND
CHASSIS NO 5521
ZENITH RADIO CORP.

MODEL	SPEAKER
5-S-218	49-178 5"
5-S-220	49-178 5"
5-S-228	49-178 5"
5-S-237	49-180 6"
5-S-250	49-179 6"
5-S-252	49-208 10"

DIAG. NO	PART NO	DESCRIPTION
R 1	63-593	47 M OHM $\frac{1}{4}$ W $\pm 20\%$
R 2	63-599	10 M OHM $\frac{1}{4}$ W $\pm 20\%$
R 3	63-610	22 M OHM $\frac{1}{4}$ W $\pm 20\%$
R 4	63-677	33 M OHM $\frac{1}{4}$ W $\pm 20\%$
R 5	63-271	MEG OHM $\frac{1}{4}$ W $\pm 20\%$
R 6	63-565	400 M OHM VOLUME CONTROL
R 7	63-296	220 M OHM $\frac{1}{4}$ W $\pm 20\%$
R 8	63-597	470 M OHM $\frac{1}{4}$ W $\pm 20\%$
R 9	63-615	3 SECTION GANDOHM 50-60V
R 10	63-606	3 SECTION GANDOHM 25 W
R 11		WAVE TRAP COIL MOUNTED ON ANTENNA COIL ASSEMBLY
1		ANT COIL & SHIELD ASSEMBLY
2	5-4934	OSCILLATOR COIL ASSEMBLY
3	95-407	1ST FT TRANSFORMER
4	95-408	2ND FT TRANSFORMER
5	85-104	BAND SELECTOR SWITCH
6	95-406	POWER TRANSFORMER
7		117 VOLT 50-60 CYCLE
8	95-492	POWER TRANSFORMER
9		ALL VOLTAGE 25 CYCLE SPEAKER TRANSFORMER

DIAG. NO	PART NO	DESCRIPTION
C 1	22-546	TWO GANG VARIABLE 400V
C 2	22-487	05 MFD 600V
C 3	22-127	25 MFD 600V
C 4	22-350	002 FIXED PADDER
C 5	22-563	1 MFD 400V
C 6	22-170	1 MFD 200V
C 7	22-162	001 MFD 200V
C 8	22-185	01 MFD 200V
C 9	22-327	02 MFD 200V
C 10	22-187	0005 MFD 200V
C 11	22-190	02 MFD 200V
C 12	22-435	02 MFD 200V
C 13	22-492	002 MFD 200V
C 14	22-171	05 MFD 400V
C 15	22-596	0 MFD 0V ELECTROLYTE 450V
C 16		1/4 MFD 0V ELECTROLYTE 450V

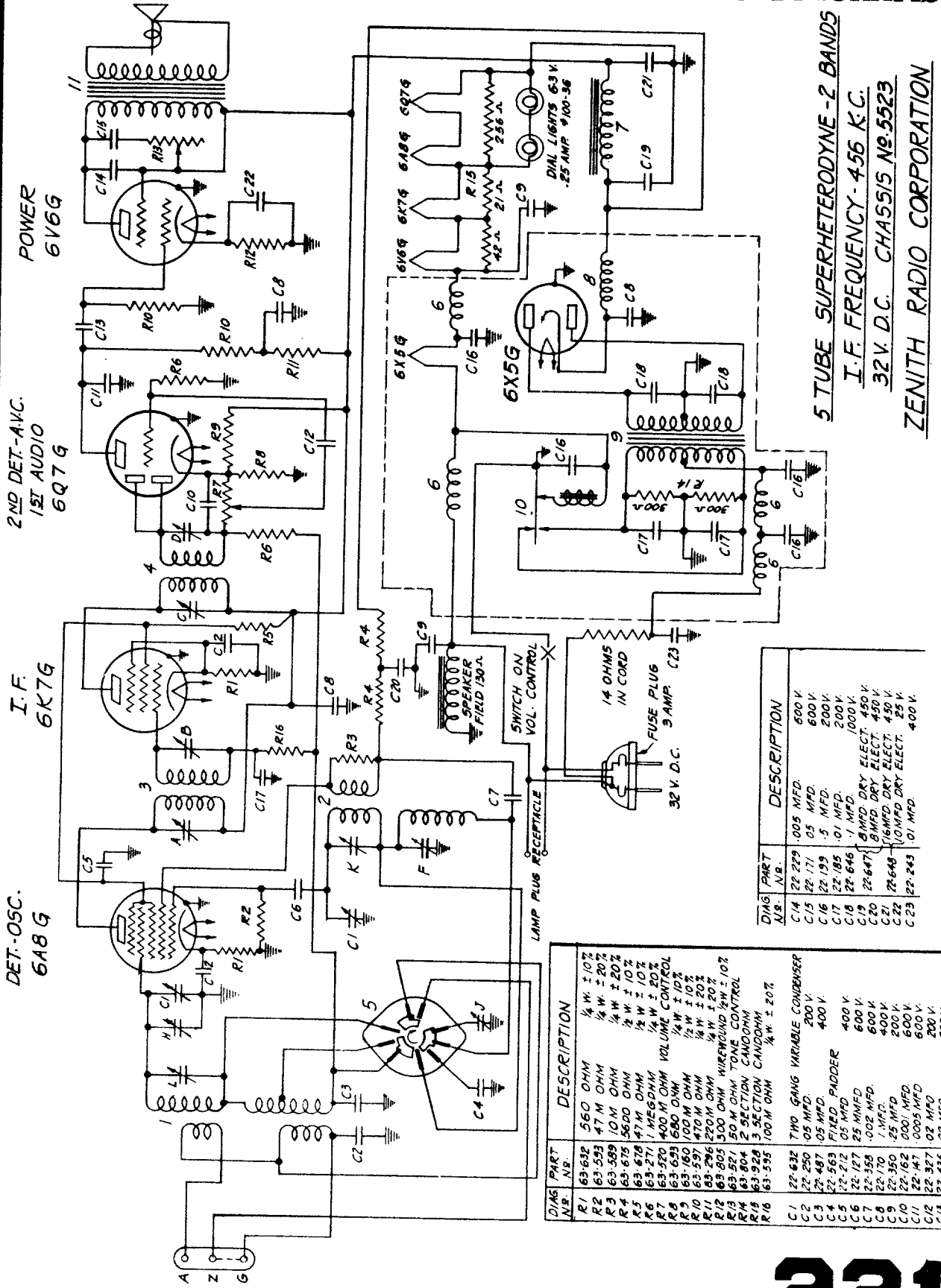
DIAG. NO	PART NO	DESCRIPTION
A		VARIABLE TRIMMERS
B		1ST I.F. TRANS PRIMARY
C		1ST I.F. TRANS SECONDARY
D		2ND I.F. TRANS PRIMARY
E		2ND I.F. TRANS SECONDARY
F		# 22-570 WAVE TRAP
G		BROADCAST OSCILLATOR (SEE NOTE)
H		ANTENNA BROADCAST (ON GANG)
J		# 22-519 BROADCAST PADDER
K		SHORT WAVE OSCILLATOR (SEE NOTE)
L		SHORT WAVE DETECTOR #22-305

TRIMMERS F & K MOUNTED ON BAKE-LITE STRIP #22-468

220

COMPILED BY M. N. BEITMAN, SUPREME PUBLICATIONS

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



5 TUBE SUPERHETERODYNE - 2 BANDS
I.F. FREQUENCY - 456 K.C.
32V. D.C. CHASSIS NO. 5523
ZENITH RADIO CORPORATION

2ND DET.-A.V.C.
1ST AUDIO
6Q7G

I.F.
6K7G

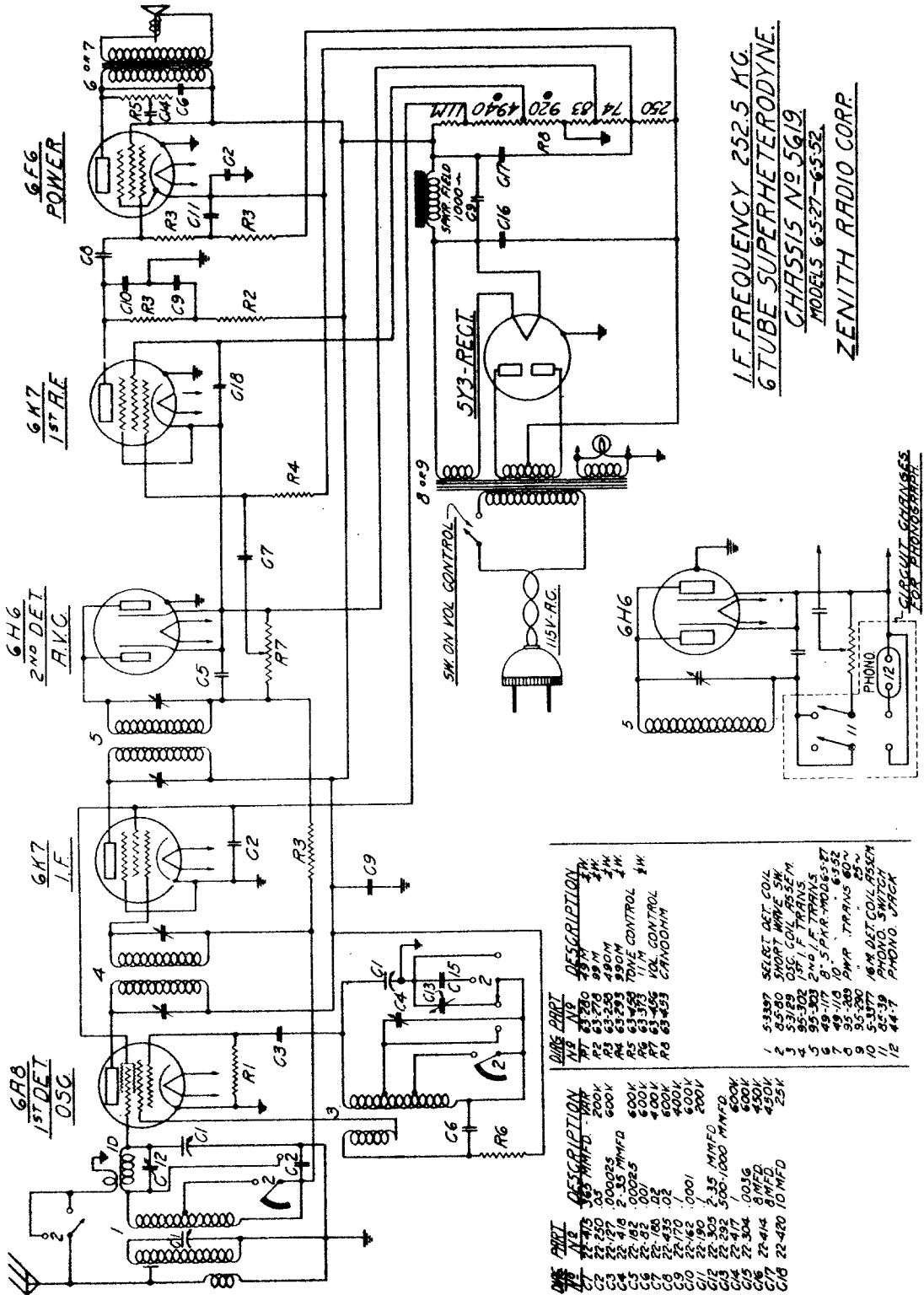
DET.-OSC.
6A8G

POWER
6V6G

DIAG. PART NO.	DESCRIPTION
R1	560 OHM 1/4 W. ± 10%
R2	560 OHM 1/4 W. ± 20%
R3	47 M OHM 1/4 W. ± 20%
R4	65-589 10 M OHM 1/4 W. ± 20%
R5	65-678 47 M OHM 1/4 W. ± 10%
R6	65-271 1 MEG OHM 1/4 W. ± 20%
R7	63-220 400 M OHM VOLUME CONTROL
R8	63-633 680 OHM 1/4 W. ± 10%
R9	63-160 100 M OHM 1/2 W. ± 20%
R10	65-597 470 M OHM 1/4 W. ± 20%
R11	65-296 220 M OHM 1/4 W. ± 20%
R12	65-905 500 OHM WIREWOUND 1/2 W. ± 10%
R13	63-527 50 M OHM TONE CONTROL
R14	63-804 2 SECTION CAMO OHM
R15	63-928 3 SECTION CAMO OHM
R16	63-595 100 M OHM 1/4 W. ± 20%
C1	22-632 710 GANG VARIABLE CONDENSER
C2	22-250 .05 MFD. 200 V.
C3	22-487 .05 MFD. 400 V.
C4	22-563 .05 MFD. FIXED PADDER
C5	22-212 .05 MFD. 400 V.
C6	22-127 25 MFD. 600 V.
C7	22-358 .002 MFD. 600 V.
C8	22-170 1 MFD. 400 V.
C9	22-350 .25 MFD. 200 V.
C10	22-162 .0005 MFD. 600 V.
C11	22-47 .02 MFD. 200 V.
C12	22-327 .02 MFD. 600 V.
C13	22-435 .02 MFD. 600 V.
C14	22-229 .005 MFD. 600 V.
C15	22-171 .5 MFD. 200V.
C16	22-199 .5 MFD. 200V.
C17	22-185 .01 MFD. 1000V.
C18	22-646 .1 MFD. 1000V.
C19	22-647 8 MFD. DRY ELECT. 450 V.
C20	22-648 16 MFD. DRY ELECT. 450 V.
C21	22-648 10 MFD. DRY ELECT. 400 V.
C22	22-243 .01 MFD. 400 V.
C23	22-435 .02 MFD. 600 V.

DIAG. PART N.B.	DESCRIPTION
C14	22-229 .005 MFD. 600 V.
C15	22-171 .5 MFD. 200V.
C16	22-199 .5 MFD. 200V.
C17	22-185 .01 MFD. 1000V.
C18	22-646 .1 MFD. 1000V.
C19	22-647 8 MFD. DRY ELECT. 450 V.
C20	22-648 16 MFD. DRY ELECT. 450 V.
C21	22-648 10 MFD. DRY ELECT. 400 V.
C22	22-243 .01 MFD. 400 V.
C23	22-435 .02 MFD. 600 V.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



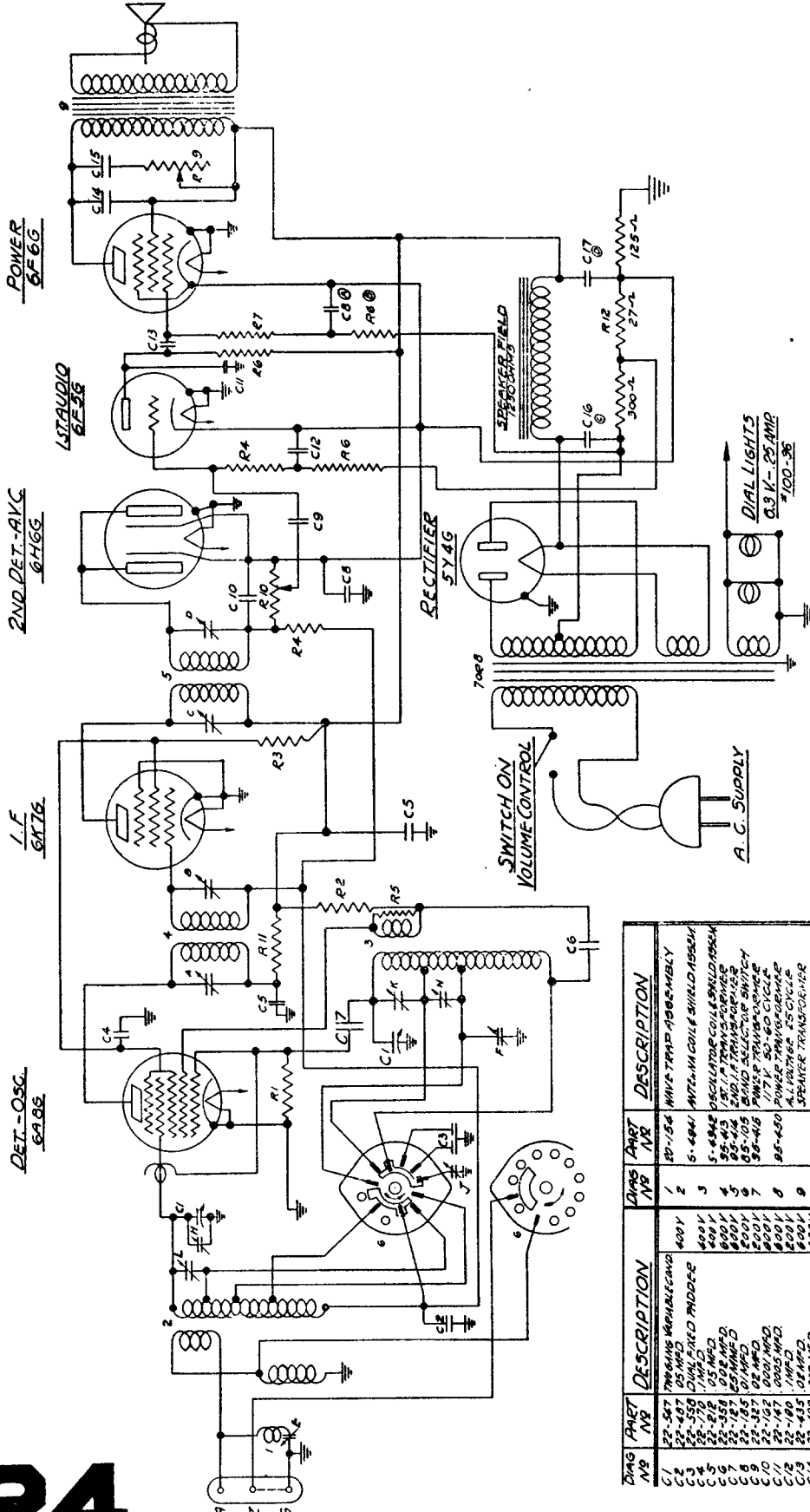
IF FREQUENCY 252.5 KC.
 6TUBE SUPERHETERODYNE.
 CHASSIS No 5619
 MODELS 6-527-6-52.
 ZENITH RADIO CORP.

PART NO.	DESCRIPTION
1	5-3397 SELECT DET. COIL
2	65-90 SHORT WAVE SW
3	53-29 OSC. COIL ASSEMB.
4	95-303 2ND I.F. TRANS.
5	49-117 9'-5" I.F. TRANS.
6	49-110 10'-5" I.F. TRANS.
7	95-330 P.W.P. TRANS. 60~
8	95-330 P.W.P. TRANS. 60~
9	16K DET. COIL ASSEMB.
10	5-3377 PHONO SW
11	6C-19 PHONO JACK
12	44-1

PART NO.	DESCRIPTION
1	100K
2	200K
3	500K
4	1M
5	2M
6	5M
7	10M
8	20M
9	50M
10	100M
11	200M
12	500M
13	1000M
14	2000M
15	5000M
16	10000M
17	20000M
18	50000M
19	100000M
20	200000M
21	500000M
22	1000000M
23	2000000M
24	5000000M
25	10000000M
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98	20000000000000000000000000000000M
99	50000000000000000000000000000000M
100	100000000000000000000000000000000M

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

Models 6-S-203, 6-S-222, 6-S-223, 6-S-229, 6-S-241 (5638 Chassis)



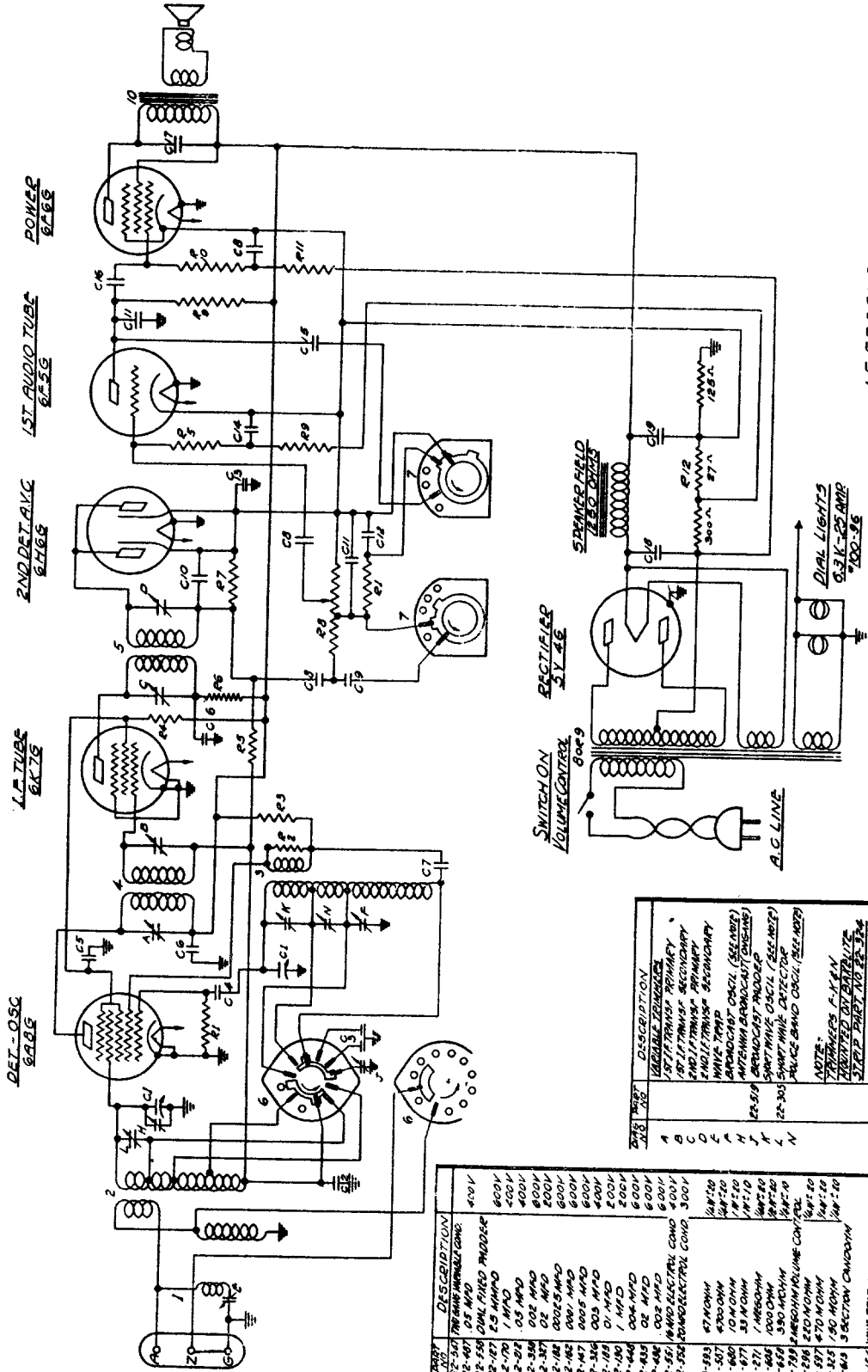
I.F. FREQUENCY 450 K.C.
6 TUBE SUPERHETERODYNE - 3 BANDS
CHASSIS NO 5638

ZENITH RADIO CORPORATION

DIAG. NO.	PART NO.	DESCRIPTION	DIAG. NO.	PART NO.	DESCRIPTION
C1	22-577	7000 OHM METAL CLAD	22-577	6A.7E	INTER. TRAP ASSEMBLY
C2	22-578	1000 OHM METAL CLAD	22-578	6A.6E	ANTENNA COIL SHIELD ASSEMBLY
C3	22-579	DIAL FIXED RESISTOR	5-484	6A.4G	OSCILLATOR COIL SHIELD ASSEMBLY
C4	22-580	100 OHM METAL CLAD	6A.4G	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
C5	22-581	100 OHM METAL CLAD	6A.4G	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
C6	22-582	100 OHM METAL CLAD	6A.4G	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
C7	22-583	100 OHM METAL CLAD	6A.4G	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
C8	22-584	100 OHM METAL CLAD	6A.4G	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
C9	22-585	100 OHM METAL CLAD	6A.4G	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
C10	22-586	100 OHM METAL CLAD	6A.4G	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
C11	22-587	100 OHM METAL CLAD	6A.4G	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
C12	22-588	100 OHM METAL CLAD	6A.4G	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
C13	22-589	100 OHM METAL CLAD	6A.4G	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
C14	22-590	100 OHM METAL CLAD	6A.4G	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
C15	22-591	100 OHM METAL CLAD	6A.4G	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
C16	22-592	100 OHM METAL CLAD	6A.4G	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
C17	22-593	100 OHM METAL CLAD	6A.4G	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R1	63-503	47M OHMS	1	6A.4G	OSCILLATOR COIL SHIELD ASSEMBLY
R2	63-504	10M OHMS	2	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R3	63-505	10M OHMS	3	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R4	63-506	10M OHMS	4	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R5	63-507	10M OHMS	5	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R6	63-508	10M OHMS	6	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R7	63-509	10M OHMS	7	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R8	63-510	10M OHMS	8	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R9	63-511	10M OHMS	9	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R10	63-512	10M OHMS	10	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R11	63-513	10M OHMS	11	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R12	63-514	10M OHMS	12	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R13	63-515	10M OHMS	13	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R14	63-516	10M OHMS	14	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R15	63-517	10M OHMS	15	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R16	63-518	10M OHMS	16	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R17	63-519	10M OHMS	17	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R18	63-520	10M OHMS	18	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R19	63-521	10M OHMS	19	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R20	63-522	10M OHMS	20	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R21	63-523	10M OHMS	21	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R22	63-524	10M OHMS	22	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R23	63-525	10M OHMS	23	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R24	63-526	10M OHMS	24	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R25	63-527	10M OHMS	25	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R26	63-528	10M OHMS	26	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R27	63-529	10M OHMS	27	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R28	63-530	10M OHMS	28	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R29	63-531	10M OHMS	29	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R30	63-532	10M OHMS	30	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R31	63-533	10M OHMS	31	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R32	63-534	10M OHMS	32	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R33	63-535	10M OHMS	33	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R34	63-536	10M OHMS	34	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R35	63-537	10M OHMS	35	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R36	63-538	10M OHMS	36	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R37	63-539	10M OHMS	37	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R38	63-540	10M OHMS	38	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R39	63-541	10M OHMS	39	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R40	63-542	10M OHMS	40	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R41	63-543	10M OHMS	41	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R42	63-544	10M OHMS	42	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R43	63-545	10M OHMS	43	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R44	63-546	10M OHMS	44	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R45	63-547	10M OHMS	45	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R46	63-548	10M OHMS	46	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R47	63-549	10M OHMS	47	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R48	63-550	10M OHMS	48	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R49	63-551	10M OHMS	49	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R50	63-552	10M OHMS	50	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R51	63-553	10M OHMS	51	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R52	63-554	10M OHMS	52	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R53	63-555	10M OHMS	53	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R54	63-556	10M OHMS	54	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R55	63-557	10M OHMS	55	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R56	63-558	10M OHMS	56	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R57	63-559	10M OHMS	57	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R58	63-560	10M OHMS	58	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R59	63-561	10M OHMS	59	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R60	63-562	10M OHMS	60	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R61	63-563	10M OHMS	61	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R62	63-564	10M OHMS	62	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R63	63-565	10M OHMS	63	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R64	63-566	10M OHMS	64	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R65	63-567	10M OHMS	65	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R66	63-568	10M OHMS	66	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R67	63-569	10M OHMS	67	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R68	63-570	10M OHMS	68	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R69	63-571	10M OHMS	69	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R70	63-572	10M OHMS	70	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R71	63-573	10M OHMS	71	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R72	63-574	10M OHMS	72	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R73	63-575	10M OHMS	73	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R74	63-576	10M OHMS	74	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R75	63-577	10M OHMS	75	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R76	63-578	10M OHMS	76	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R77	63-579	10M OHMS	77	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R78	63-580	10M OHMS	78	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R79	63-581	10M OHMS	79	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R80	63-582	10M OHMS	80	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R81	63-583	10M OHMS	81	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R82	63-584	10M OHMS	82	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R83	63-585	10M OHMS	83	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R84	63-586	10M OHMS	84	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R85	63-587	10M OHMS	85	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R86	63-588	10M OHMS	86	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R87	63-589	10M OHMS	87	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R88	63-590	10M OHMS	88	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R89	63-591	10M OHMS	89	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R90	63-592	10M OHMS	90	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R91	63-593	10M OHMS	91	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R92	63-594	10M OHMS	92	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R93	63-595	10M OHMS	93	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R94	63-596	10M OHMS	94	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R95	63-597	10M OHMS	95	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R96	63-598	10M OHMS	96	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R97	63-599	10M OHMS	97	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R98	63-600	10M OHMS	98	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R99	63-601	10M OHMS	99	6A.4G	ANTENNA COIL SHIELD ASSEMBLY
R100	63-602	10M OHMS	100	6A.4G	ANTENNA COIL SHIELD ASSEMBLY

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

Models 6-S-254, 6-S-256 (5644 Chassis)



I.F. FREQUENCY 456 KC
6 TUBE SUPERHETERODYNE - 3 BAND
CHASSIS NO 5644

ZENITH RADIO CORPORATION

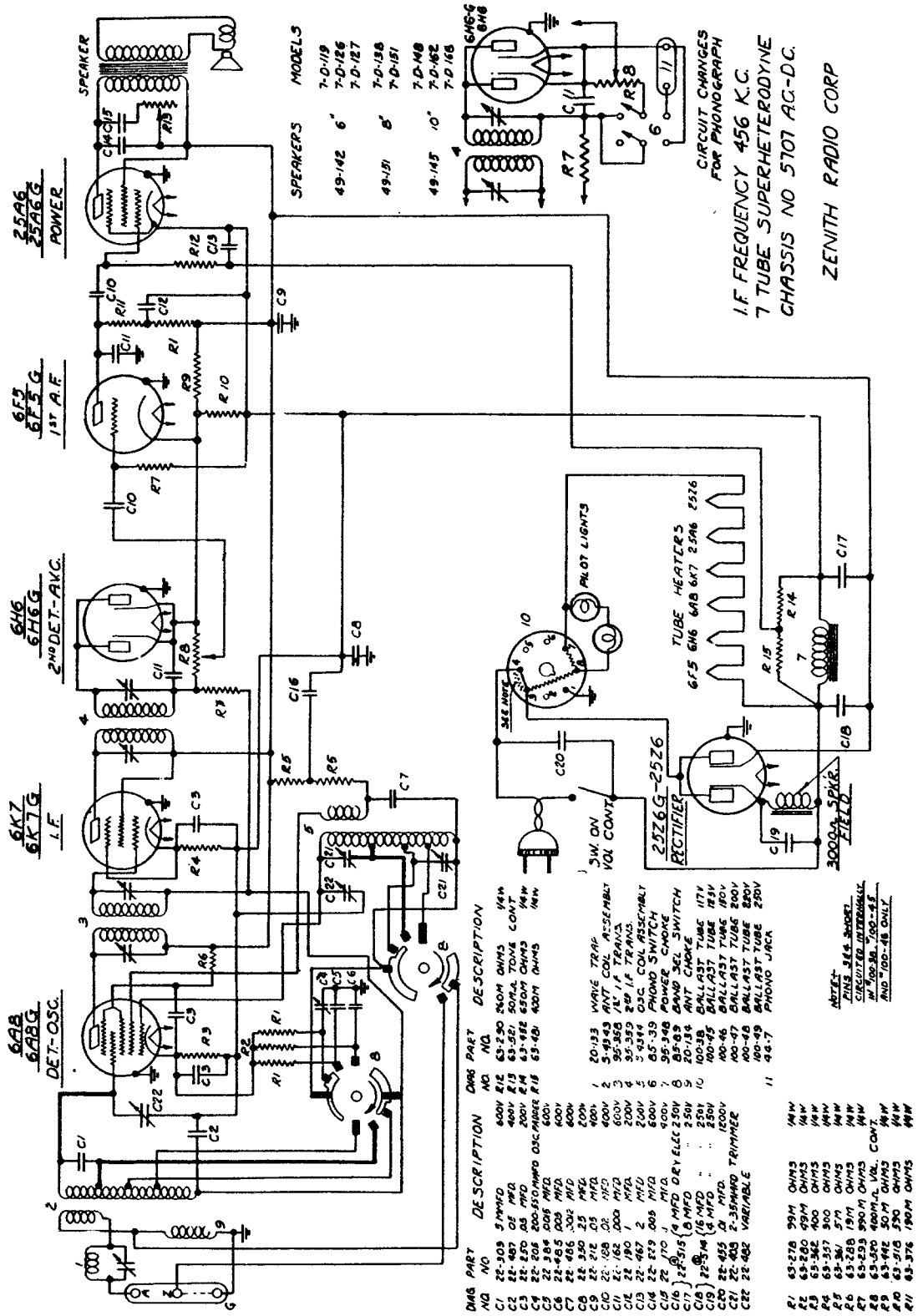
SPEAKERS MODELS
49-200-D 6-S-254
49-181-D 6-S-256

POS.	NO.	DESCRIPTION
A	1	VARIABLE TUNING
B	2	ANTENNA PRIMARY
C	3	ANTENNA SECONDARY
D	4	ANTENNA TUNING
E	5	ANTENNA TUNING
F	6	ANTENNA TUNING
G	7	ANTENNA TUNING
H	8	ANTENNA TUNING
I	9	ANTENNA TUNING
J	10	ANTENNA TUNING
K	11	ANTENNA TUNING
L	12	ANTENNA TUNING

POS.	NO.	DESCRIPTION
C1	22-340	700 OHM AIR CORE COND. 450V
C2	22-440	0.2 MFD
C3	22-254	DUAL FIXED MIDDLE
C4	22-271	0.5 MFD
C5	22-272	1 MFD
C6	22-284	0.05 MFD
C7	22-331	0.02 MFD
C8	22-332	0.01 MFD
C9	22-333	0.005 MFD
C10	22-334	0.002 MFD
C11	22-335	0.001 MFD
C12	22-336	0.0005 MFD
C13	22-337	0.0002 MFD
C14	22-338	0.0001 MFD
C15	22-339	0.00005 MFD
C16	22-340	0.00002 MFD
C17	22-341	0.00001 MFD
C18	22-342	0.000005 MFD
C19	22-343	0.000002 MFD
C20	22-344	0.000001 MFD
R-1	63-103	470 OHM
R-2	63-104	470 OHM
R-3	63-105	470 OHM
R-4	63-106	470 OHM
R-5	63-107	470 OHM
R-6	63-108	470 OHM
R-7	63-109	470 OHM
R-8	63-110	470 OHM
R-9	63-111	470 OHM
R-10	63-112	470 OHM
R-11	63-113	470 OHM
R-12	63-114	470 OHM
R-13	63-115	470 OHM
R-14	63-116	470 OHM
R-15	63-117	470 OHM
R-16	63-118	470 OHM
R-17	63-119	470 OHM
R-18	63-120	470 OHM
R-19	63-121	470 OHM
R-20	63-122	470 OHM
R-21	63-123	470 OHM
R-22	63-124	470 OHM
R-23	63-125	470 OHM
R-24	63-126	470 OHM
R-25	63-127	470 OHM
R-26	63-128	470 OHM
R-27	63-129	470 OHM
R-28	63-130	470 OHM
R-29	63-131	470 OHM
R-30	63-132	470 OHM
R-31	63-133	470 OHM
R-32	63-134	470 OHM
R-33	63-135	470 OHM
R-34	63-136	470 OHM
R-35	63-137	470 OHM
R-36	63-138	470 OHM
R-37	63-139	470 OHM
R-38	63-140	470 OHM
R-39	63-141	470 OHM
R-40	63-142	470 OHM
R-41	63-143	470 OHM
R-42	63-144	470 OHM
R-43	63-145	470 OHM
R-44	63-146	470 OHM
R-45	63-147	470 OHM
R-46	63-148	470 OHM
R-47	63-149	470 OHM
R-48	63-150	470 OHM
R-49	63-151	470 OHM
R-50	63-152	470 OHM
R-51	63-153	470 OHM
R-52	63-154	470 OHM
R-53	63-155	470 OHM
R-54	63-156	470 OHM
R-55	63-157	470 OHM
R-56	63-158	470 OHM
R-57	63-159	470 OHM
R-58	63-160	470 OHM
R-59	63-161	470 OHM
R-60	63-162	470 OHM
R-61	63-163	470 OHM
R-62	63-164	470 OHM
R-63	63-165	470 OHM
R-64	63-166	470 OHM
R-65	63-167	470 OHM
R-66	63-168	470 OHM
R-67	63-169	470 OHM
R-68	63-170	470 OHM
R-69	63-171	470 OHM
R-70	63-172	470 OHM
R-71	63-173	470 OHM
R-72	63-174	470 OHM
R-73	63-175	470 OHM
R-74	63-176	470 OHM
R-75	63-177	470 OHM
R-76	63-178	470 OHM
R-77	63-179	470 OHM
R-78	63-180	470 OHM
R-79	63-181	470 OHM
R-80	63-182	470 OHM
R-81	63-183	470 OHM
R-82	63-184	470 OHM
R-83	63-185	470 OHM
R-84	63-186	470 OHM
R-85	63-187	470 OHM
R-86	63-188	470 OHM
R-87	63-189	470 OHM
R-88	63-190	470 OHM
R-89	63-191	470 OHM
R-90	63-192	470 OHM
R-91	63-193	470 OHM
R-92	63-194	470 OHM
R-93	63-195	470 OHM
R-94	63-196	470 OHM
R-95	63-197	470 OHM
R-96	63-198	470 OHM
R-97	63-199	470 OHM
R-98	63-200	470 OHM
R-99	63-201	470 OHM
R-100	63-202	470 OHM

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

CIRCUIT DIAGRAM—Models 7-D-119, 7-D-126, 7-D-127, 7-D-138, 7-D-151, 7-D-148, 7-D-162, 7-D-168. (Chassis No. 5707)

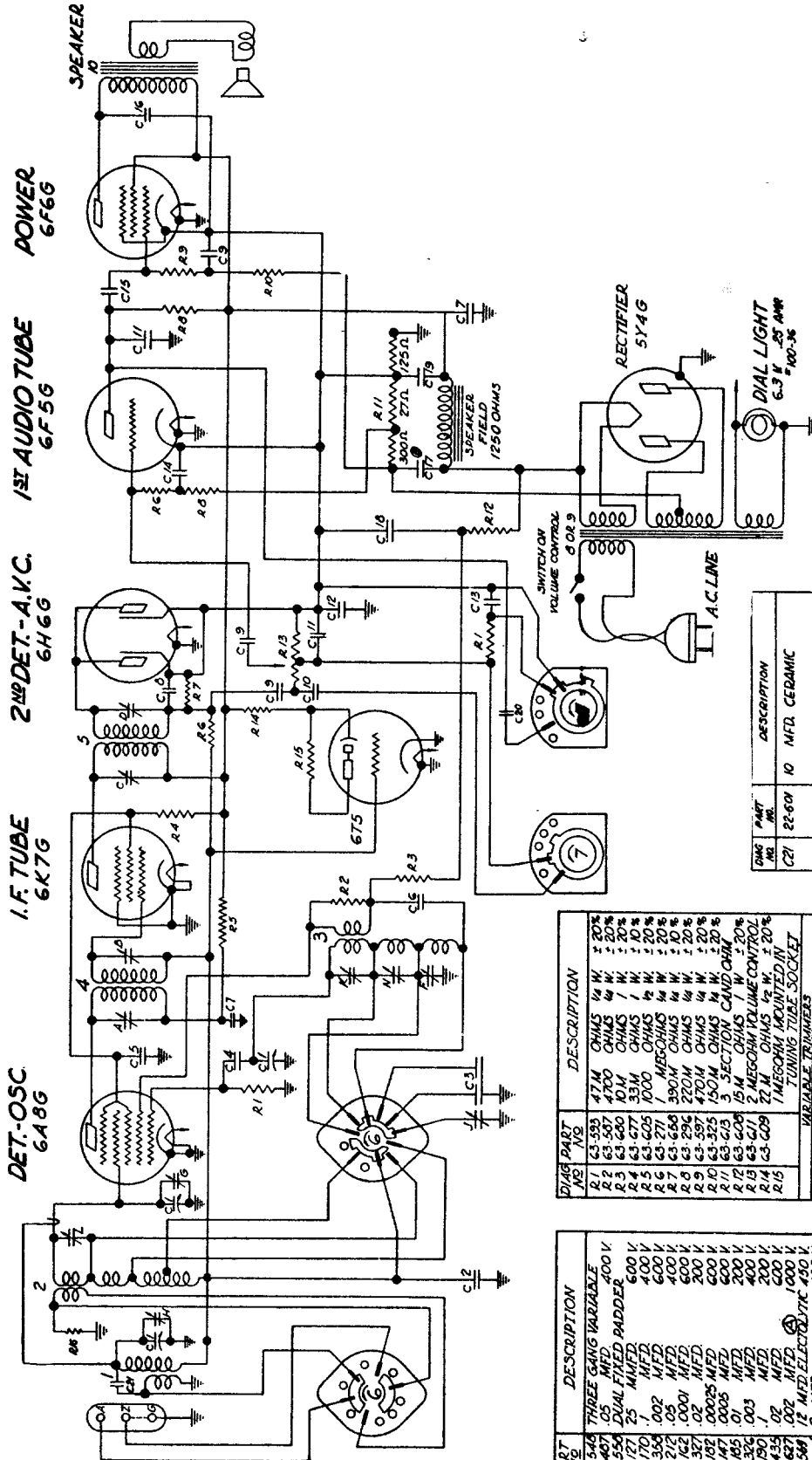


SPEAKERS	MODELS
49-142 6"	7-D-119
49-131 8"	7-D-126
49-145 10"	7-D-127
	7-D-138
	7-D-151
	7-D-148
	7-D-162
	7-D-168

DWG PART NO.	DESCRIPTION	DWG PART NO.	DESCRIPTION
C1	22-308 5 MFD	1	20-133 WAVE TRAP
C2	22-407 25 MFD	2	5-1943 ANT COIL ASSEMBLY 1/4W
C3	22-408 25 MFD	3	5-1944 500K TOWNS CONT 1/4W
C4	22-508 200-510 MFD OSC. PARER #18	4	34-155 2M I.F. TRANS.
C5	22-384 5005 MFD	5	3-4344 63C. COIL ASSEMBLY
C6	22-458 2005 MFD	6	65-339 PHONO SWITC
C7	22-486 3005 MFD	7	35-348 POWER CHDRE
C8	22-390 25 MFD	8	85-83 ANT CHARGE
C9	22-712 25 MFD	9	100-38 BALLAST TUBE 17V
C10	22-168 200 MFD	10	100-46 BALLAST TUBE 18V
C11	22-190 1 MFD	11	100-47 BALLAST TUBE 20V
C12	22-467 2 MFD	12	100-48 BALLAST TUBE 20V
C13	22-579 205 MFD	13	100-49 PHONO JACK
C14	22-170 1 MFD	14	46-7
C15	22-515 5 MFD	15	
C16	22-516 5 MFD	16	
C17	22-14 16 MFD	17	
C18	22-465 2 MFD	18	
C19	22-403 2-35 MFD TRIMMER	19	
C20	22-482 VARIABLE	20	
C21	22-482 VARIABLE	21	
C22	22-482 VARIABLE	22	
R1	45-276 29M OHMS	23	
R2	45-362 400 OHMS	24	
R3	63-357 900 OHMS	25	
R4	63-361 570 OHMS	26	
R5	63-288 170 OHMS	27	
R6	63-293 590 M OHMS	28	
R7	63-360 400M OHMS	29	
R8	63-362 300M OHMS	30	
R9	63-363 300M OHMS	31	
R10	63-364 300M OHMS	32	
R11	63-365 300M OHMS	33	
R12	63-366 300M OHMS	34	
R13	63-367 300M OHMS	35	
R14	63-368 300M OHMS	36	
R15	63-369 300M OHMS	37	
R16	63-370 300M OHMS	38	
R17	63-371 300M OHMS	39	
R18	63-372 300M OHMS	40	
R19	63-373 300M OHMS	41	
R20	63-374 300M OHMS	42	
R21	63-375 300M OHMS	43	
R22	63-376 300M OHMS	44	
R23	63-377 300M OHMS	45	
R24	63-378 300M OHMS	46	
R25	63-379 300M OHMS	47	
R26	63-380 300M OHMS	48	
R27	63-381 300M OHMS	49	
R28	63-382 300M OHMS	50	
R29	63-383 300M OHMS	51	
R30	63-384 300M OHMS	52	
R31	63-385 300M OHMS	53	
R32	63-386 300M OHMS	54	
R33	63-387 300M OHMS	55	
R34	63-388 300M OHMS	56	
R35	63-389 300M OHMS	57	
R36	63-390 300M OHMS	58	
R37	63-391 300M OHMS	59	
R38	63-392 300M OHMS	60	
R39	63-393 300M OHMS	61	
R40	63-394 300M OHMS	62	
R41	63-395 300M OHMS	63	
R42	63-396 300M OHMS	64	
R43	63-397 300M OHMS	65	
R44	63-398 300M OHMS	66	
R45	63-399 300M OHMS	67	
R46	63-400 300M OHMS	68	
R47	63-401 300M OHMS	69	
R48	63-402 300M OHMS	70	
R49	63-403 300M OHMS	71	
R50	63-404 300M OHMS	72	
R51	63-405 300M OHMS	73	
R52	63-406 300M OHMS	74	
R53	63-407 300M OHMS	75	
R54	63-408 300M OHMS	76	
R55	63-409 300M OHMS	77	
R56	63-410 300M OHMS	78	
R57	63-411 300M OHMS	79	
R58	63-412 300M OHMS	80	
R59	63-413 300M OHMS	81	
R60	63-414 300M OHMS	82	
R61	63-415 300M OHMS	83	
R62	63-416 300M OHMS	84	
R63	63-417 300M OHMS	85	
R64	63-418 300M OHMS	86	
R65	63-419 300M OHMS	87	
R66	63-420 300M OHMS	88	
R67	63-421 300M OHMS	89	
R68	63-422 300M OHMS	90	
R69	63-423 300M OHMS	91	
R70	63-424 300M OHMS	92	
R71	63-425 300M OHMS	93	
R72	63-426 300M OHMS	94	
R73	63-427 300M OHMS	95	
R74	63-428 300M OHMS	96	
R75	63-429 300M OHMS	97	
R76	63-430 300M OHMS	98	
R77	63-431 300M OHMS	99	
R78	63-432 300M OHMS	100	

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

Models 7-S-204, 7-S-232, 7-S-240, 7-S-242, 7-S-258, 7-S-260, 7-S-261 (5709 Chassis)



DET.-OSC
6AB6

I.F. TUBE
6K7G

2ND DET.-A.K.C.
6H6G

1ST AUDIO TUBE
6F56

POWER
6F6G

I.F. - FREQUENCY 456 K.C.
7 TUBE SUPERHETERODYNE
3 BAND
CHASSIS NO. 5709
ZENITH RADIO CORP.

DIAL PART NO.	PART NO.	DESCRIPTION
C21	22-604	10 MFD CERAMIC
R16	63-383	4000 OHMS 1/4 W ± 20%

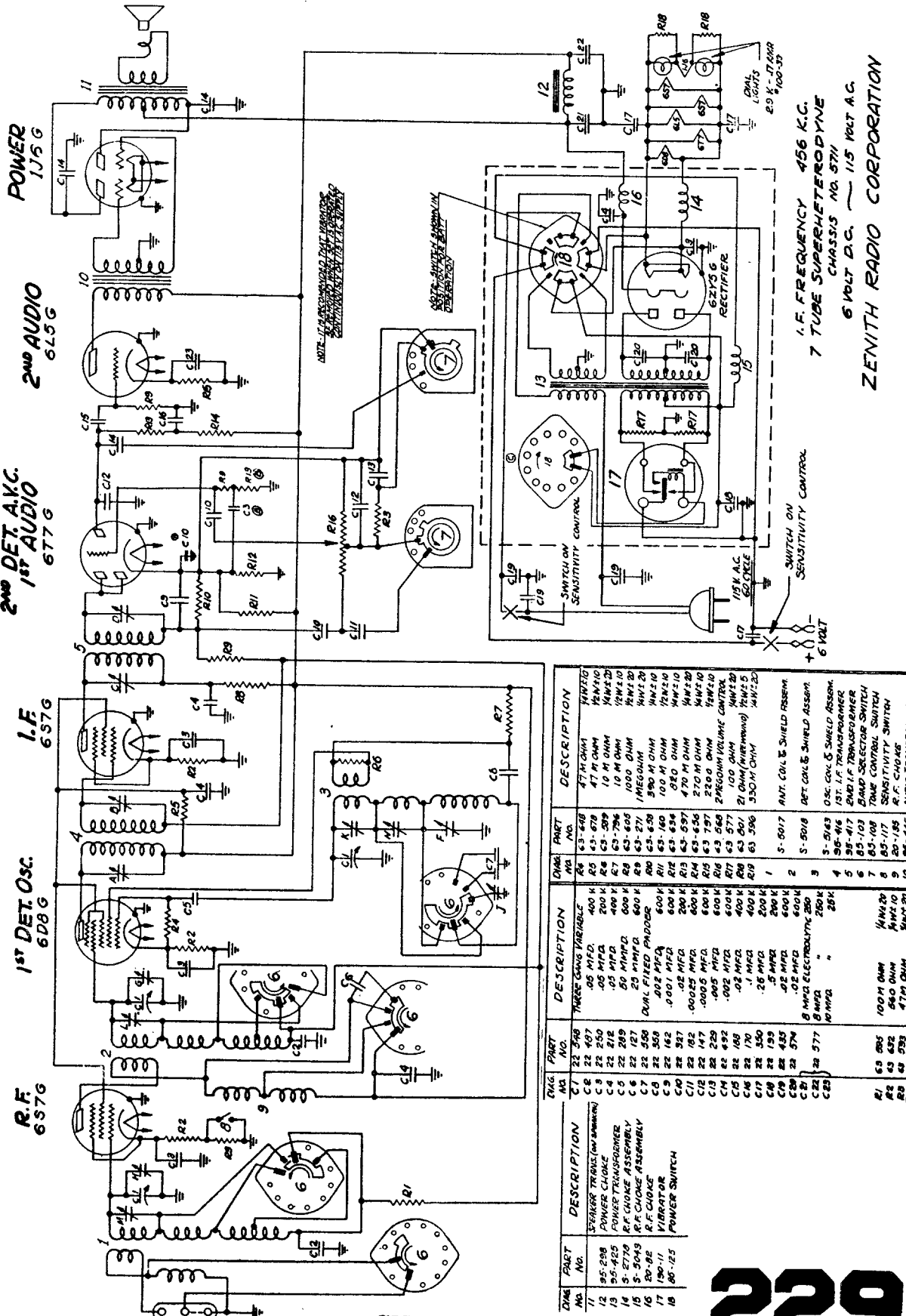
SPEAKERS	MODELS
49-203	8: 7-3-232
49-206	8: 7-3-240
49-208	8: 7-3-242
49-194	8: 7-3-260
49-195	8: 7-3-261
49-193	1/2: 7-3-261

DIAL PART NO.	DESCRIPTION
R1	47M OHMS 1/4 W ± 20%
R2	100 OHMS 1/4 W ± 20%
R3	100 OHMS 1/4 W ± 20%
R4	33M OHMS 1/4 W ± 20%
R5	63-605 1000 OHMS 1/4 W ± 20%
R6	63-271 1MESH OHMS 1/4 W ± 20%
R7	63-668 3900M OHMS 1/4 W ± 20%
R8	63-296 220M OHMS 1/4 W ± 20%
R9	63-597 470M OHMS 1/4 W ± 20%
R10	63-325 150M OHMS 1/4 W ± 20%
R11	63-613 5 SECTION CAND OHM
R12	63-608 15M OHMS 1/4 W ± 20%
R13	63-611 2 MEGOHM VOLUME CONTROL
R14	22M OHMS 1/4 W ± 20%
R15	MEG OHM MOUNTED IN TUNING TUBE SOCKET

DIAL PART NO.	DESCRIPTION
23-544	THREE GANG VARIABLE
C2	05 MFD
C3	DUAL FIXED PADDER
C4	25 MFD
C5	1 MFD
C6	002 MFD
C7	22-356 MFD
C8	001 MFD
C9	22-742 MFD
C10	200 V MFD
C11	0005 MFD
C12	01 MFD
C13	003 MFD
C14	001 MFD
C15	002 MFD
C16	12 MFD ELECT. TYPIC 450 V
C17	K. MFD
C18	2 MFD
C19	004 MFD
C20	ANTENNA COIL ASSEMBLY
1	DETECTOR COIL & SHIELD ASSEM
2	OSCILLATOR COIL & SHIELD ASSEM
3	1 ST I.F. TRANS.
4	2 ND I.F. TRANS.
5	BAND SELECTOR SWITCH
6	100-1000 HZ TONE CONTROL SWITCH
7	POWER TRANS. ULTIMATE STYLE
8	30-45V SPEAKER TRANSFORMER

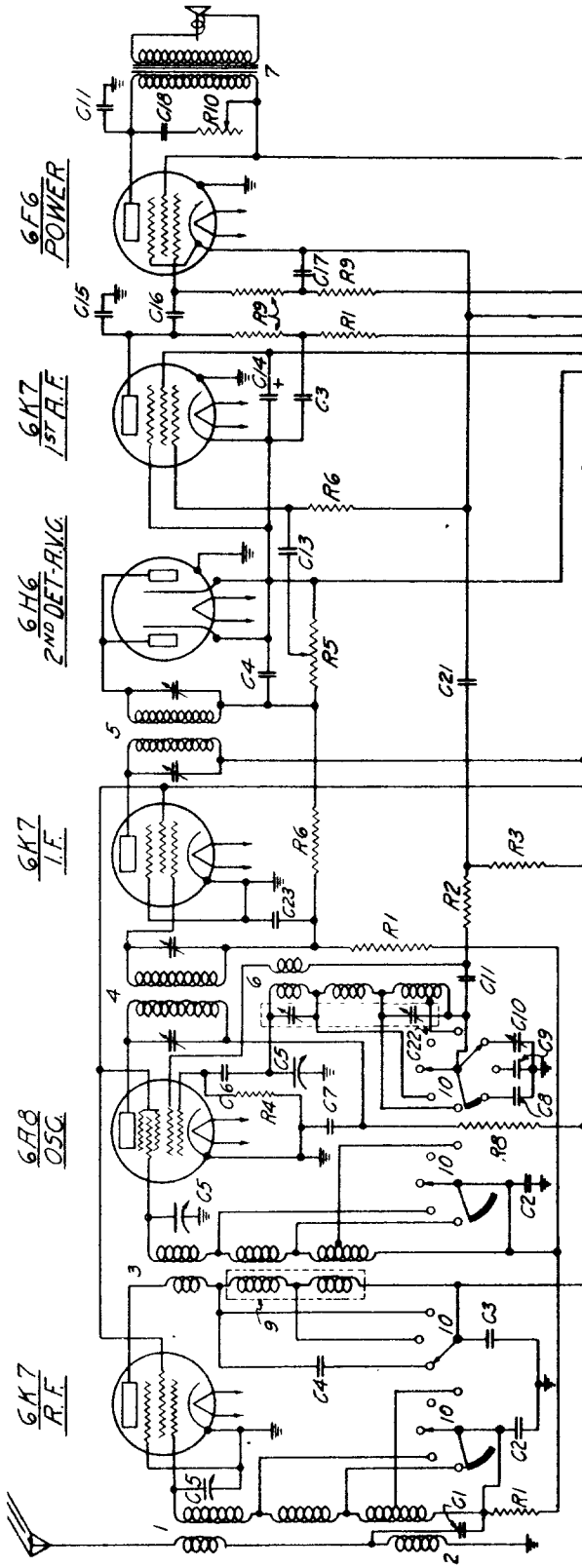
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

Models 7-J-232, 7-J-259 (5711 Chassis)

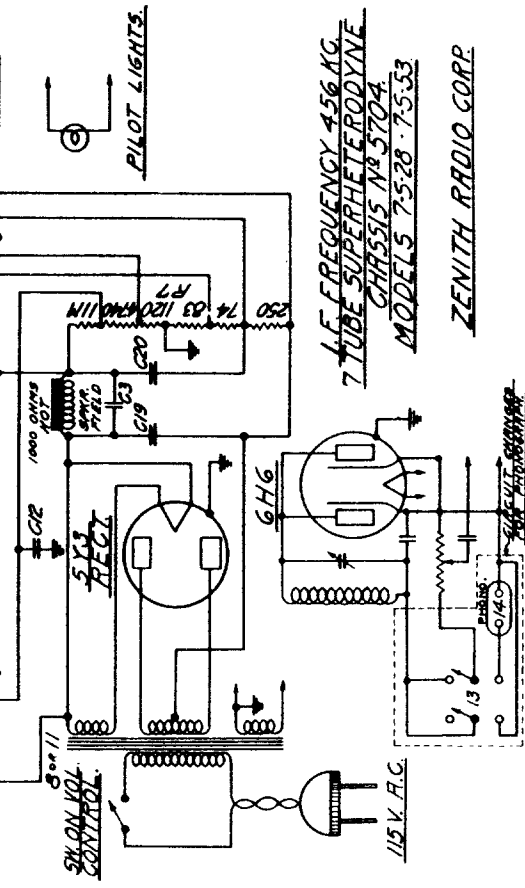


Part No.	Description	Part No.	Description
1	100 M OHM	1	ANT. COIL & SHIELD ASSEMBLY
2	500 OHM	2	DET. COIL & SHIELD ASSEMBLY
3	100 M OHM	3	OSC. COIL & SHIELD ASSEMBLY
4	100 M OHM	4	1st I.F. TRANSFORMER
5	100 M OHM	5	2nd I.F. TRANSFORMER
6	100 M OHM	6	5AL5 RECTIFIER
7	100 M OHM	7	62Y5 G DETECTOR
8	100 M OHM	8	6Z5 G DETECTOR
9	100 M OHM	9	62Y5 G DETECTOR
10	100 M OHM	10	6Z5 G DETECTOR
11	100 M OHM	11	6Z5 G DETECTOR
12	100 M OHM	12	6Z5 G DETECTOR
13	100 M OHM	13	6Z5 G DETECTOR
14	100 M OHM	14	6Z5 G DETECTOR
15	100 M OHM	15	6Z5 G DETECTOR
16	100 M OHM	16	6Z5 G DETECTOR
17	100 M OHM	17	6Z5 G DETECTOR
18	100 M OHM	18	6Z5 G DETECTOR
19	100 M OHM	19	6Z5 G DETECTOR
20	100 M OHM	20	6Z5 G DETECTOR
21	100 M OHM	21	6Z5 G DETECTOR
22	100 M OHM	22	6Z5 G DETECTOR
23	100 M OHM	23	6Z5 G DETECTOR
24	100 M OHM	24	6Z5 G DETECTOR
25	100 M OHM	25	6Z5 G DETECTOR
26	100 M OHM	26	6Z5 G DETECTOR
27	100 M OHM	27	6Z5 G DETECTOR
28	100 M OHM	28	6Z5 G DETECTOR
29	100 M OHM	29	6Z5 G DETECTOR
30	100 M OHM	30	6Z5 G DETECTOR
31	100 M OHM	31	6Z5 G DETECTOR
32	100 M OHM	32	6Z5 G DETECTOR
33	100 M OHM	33	6Z5 G DETECTOR
34	100 M OHM	34	6Z5 G DETECTOR
35	100 M OHM	35	6Z5 G DETECTOR
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41	100 M OHM	41	6Z5 G DETECTOR
42	100 M OHM	42	6Z5 G DETECTOR
43	100 M OHM	43	6Z5 G DETECTOR
44	100 M OHM	44	6Z5 G DETECTOR
45	100 M OHM	45	6Z5 G DETECTOR
46	100 M OHM	46	6Z5 G DETECTOR
47	100 M OHM	47	6Z5 G DETECTOR
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54	100 M OHM	54	6Z5 G DETECTOR
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63	100 M OHM	63	6Z5 G DETECTOR
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87	100 M OHM	87	6Z5 G DETECTOR
88	100 M OHM	88	6Z5 G DETECTOR
89	100 M OHM	89	6Z5 G DETECTOR
90	100 M OHM	90	6Z5 G DETECTOR
91	100 M OHM	91	6Z5 G DETECTOR
92	100 M OHM	92	6Z5 G DETECTOR
93	100 M OHM	93	6Z5 G DETECTOR
94	100 M OHM	94	6Z5 G DETECTOR
95	100 M OHM	95	6Z5 G DETECTOR
96	100 M OHM	96	6Z5 G DETECTOR
97	100 M OHM	97	6Z5 G DETECTOR
98	100 M OHM	98	6Z5 G DETECTOR
99	100 M OHM	99	6Z5 G DETECTOR
100	100 M OHM	100	6Z5 G DETECTOR

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

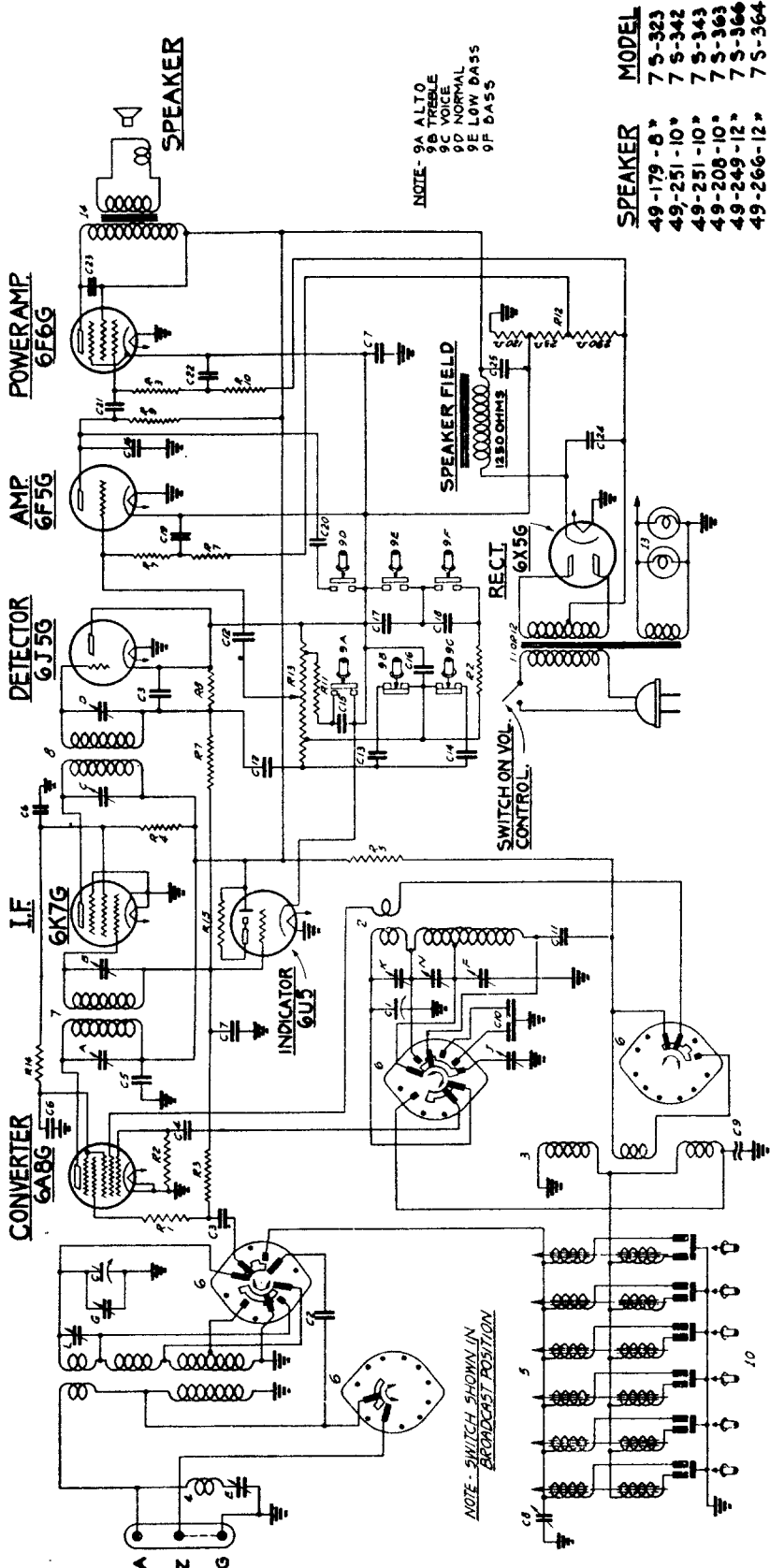


WIRE NO.	PART NO.	DESCRIPTION
1	5-3697	ANT. COIL ASSEMBLY
2	5-3698	ANT. COIL SHIELD
3	5-3699	1ST I.F. TRANS.
4	95-291	1ST I.F. TRANS.
5	95-292	2ND I.F. TRANS.
6	5-3659	OSC. COIL ASSEMBLY
7	49-117	POWER TRANS. 60°
8	55-209	POWER TRANS. 60°
9	20-119	PT. PLATE CHROME ASSEMBLY
10	95-290	60W. 250V. 1.25A. FUSE
11	49-422	1/2" SPARK PLUG 7-5-53
12	85-35	1/2" SPARK PLUG 7-5-53
13	44-7	1/2" SPARK PLUG 7-5-53
14	44-7	1/2" SPARK PLUG 7-5-53
15	44-7	1/2" SPARK PLUG 7-5-53
16	44-7	1/2" SPARK PLUG 7-5-53
17	44-7	1/2" SPARK PLUG 7-5-53
18	44-7	1/2" SPARK PLUG 7-5-53
19	44-7	1/2" SPARK PLUG 7-5-53
20	44-7	1/2" SPARK PLUG 7-5-53
21	44-7	1/2" SPARK PLUG 7-5-53
22	44-7	1/2" SPARK PLUG 7-5-53
23	44-7	1/2" SPARK PLUG 7-5-53
24	44-7	1/2" SPARK PLUG 7-5-53
25	44-7	1/2" SPARK PLUG 7-5-53
26	44-7	1/2" SPARK PLUG 7-5-53
27	44-7	1/2" SPARK PLUG 7-5-53
28	44-7	1/2" SPARK PLUG 7-5-53
29	44-7	1/2" SPARK PLUG 7-5-53
30	44-7	1/2" SPARK PLUG 7-5-53
31	44-7	1/2" SPARK PLUG 7-5-53
32	44-7	1/2" SPARK PLUG 7-5-53
33	44-7	1/2" SPARK PLUG 7-5-53
34	44-7	1/2" SPARK PLUG 7-5-53
35	44-7	1/2" SPARK PLUG 7-5-53
36	44-7	1/2" SPARK PLUG 7-5-53
37	44-7	1/2" SPARK PLUG 7-5-53
38	44-7	1/2" SPARK PLUG 7-5-53
39	44-7	1/2" SPARK PLUG 7-5-53
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41	44-7	1/2" SPARK PLUG 7-5-53
42	44-7	1/2" SPARK PLUG 7-5-53
43	44-7	1/2" SPARK PLUG 7-5-53
44	44-7	1/2" SPARK PLUG 7-5-53
45	44-7	1/2" SPARK PLUG 7-5-53
46	44-7	1/2" SPARK PLUG 7-5-53
47	44-7	1/2" SPARK PLUG 7-5-53
48	44-7	1/2" SPARK PLUG 7-5-53
49	44-7	1/2" SPARK PLUG 7-5-53
50	44-7	1/2" SPARK PLUG 7-5-53
51	44-7	1/2" SPARK PLUG 7-5-53
52	44-7	1/2" SPARK PLUG 7-5-53
53	44-7	1/2" SPARK PLUG 7-5-53
54	44-7	1/2" SPARK PLUG 7-5-53
55	44-7	1/2" SPARK PLUG 7-5-53
56	44-7	1/2" SPARK PLUG 7-5-53
57	44-7	1/2" SPARK PLUG 7-5-53
58	44-7	1/2" SPARK PLUG 7-5-53
59	44-7	1/2" SPARK PLUG 7-5-53
60	44-7	1/2" SPARK PLUG 7-5-53
61	44-7	1/2" SPARK PLUG 7-5-53
62	44-7	1/2" SPARK PLUG 7-5-53
63	44-7	1/2" SPARK PLUG 7-5-53
64	44-7	1/2" SPARK PLUG 7-5-53
65	44-7	1/2" SPARK PLUG 7-5-53
66	44-7	1/2" SPARK PLUG 7-5-53
67	44-7	1/2" SPARK PLUG 7-5-53
68	44-7	1/2" SPARK PLUG 7-5-53
69	44-7	1/2" SPARK PLUG 7-5-53
70	44-7	1/2" SPARK PLUG 7-5-53
71	44-7	1/2" SPARK PLUG 7-5-53
72	44-7	1/2" SPARK PLUG 7-5-53
73	44-7	1/2" SPARK PLUG 7-5-53
74	44-7	1/2" SPARK PLUG 7-5-53
75	44-7	1/2" SPARK PLUG 7-5-53
76	44-7	1/2" SPARK PLUG 7-5-53
77	44-7	1/2" SPARK PLUG 7-5-53
78	44-7	1/2" SPARK PLUG 7-5-53
79	44-7	1/2" SPARK PLUG 7-5-53
80	44-7	1/2" SPARK PLUG 7-5-53
81	44-7	1/2" SPARK PLUG 7-5-53
82	44-7	1/2" SPARK PLUG 7-5-53
83	44-7	1/2" SPARK PLUG 7-5-53
84	44-7	1/2" SPARK PLUG 7-5-53
85	44-7	1/2" SPARK PLUG 7-5-53
86	44-7	1/2" SPARK PLUG 7-5-53
87	44-7	1/2" SPARK PLUG 7-5-53
88	44-7	1/2" SPARK PLUG 7-5-53
89	44-7	1/2" SPARK PLUG 7-5-53
90	44-7	1/2" SPARK PLUG 7-5-53
91	44-7	1/2" SPARK PLUG 7-5-53
92	44-7	1/2" SPARK PLUG 7-5-53
93	44-7	1/2" SPARK PLUG 7-5-53
94	44-7	1/2" SPARK PLUG 7-5-53
95	44-7	1/2" SPARK PLUG 7-5-53
96	44-7	1/2" SPARK PLUG 7-5-53
97	44-7	1/2" SPARK PLUG 7-5-53
98	44-7	1/2" SPARK PLUG 7-5-53
99	44-7	1/2" SPARK PLUG 7-5-53
100	44-7	1/2" SPARK PLUG 7-5-53



I.F. FREQUENCY 456 KC.
 7-TUBE SUPERHETERODYNE
 CHASSIS NO. 5704
 MODELS 7-5-28 · 7-5-53
 ZENITH RADIO CORP.

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



NOTE: 9A ALTO
9B TREBLE
9C VOICE
9D NORMAL
9E LOW BASS
9F BASS

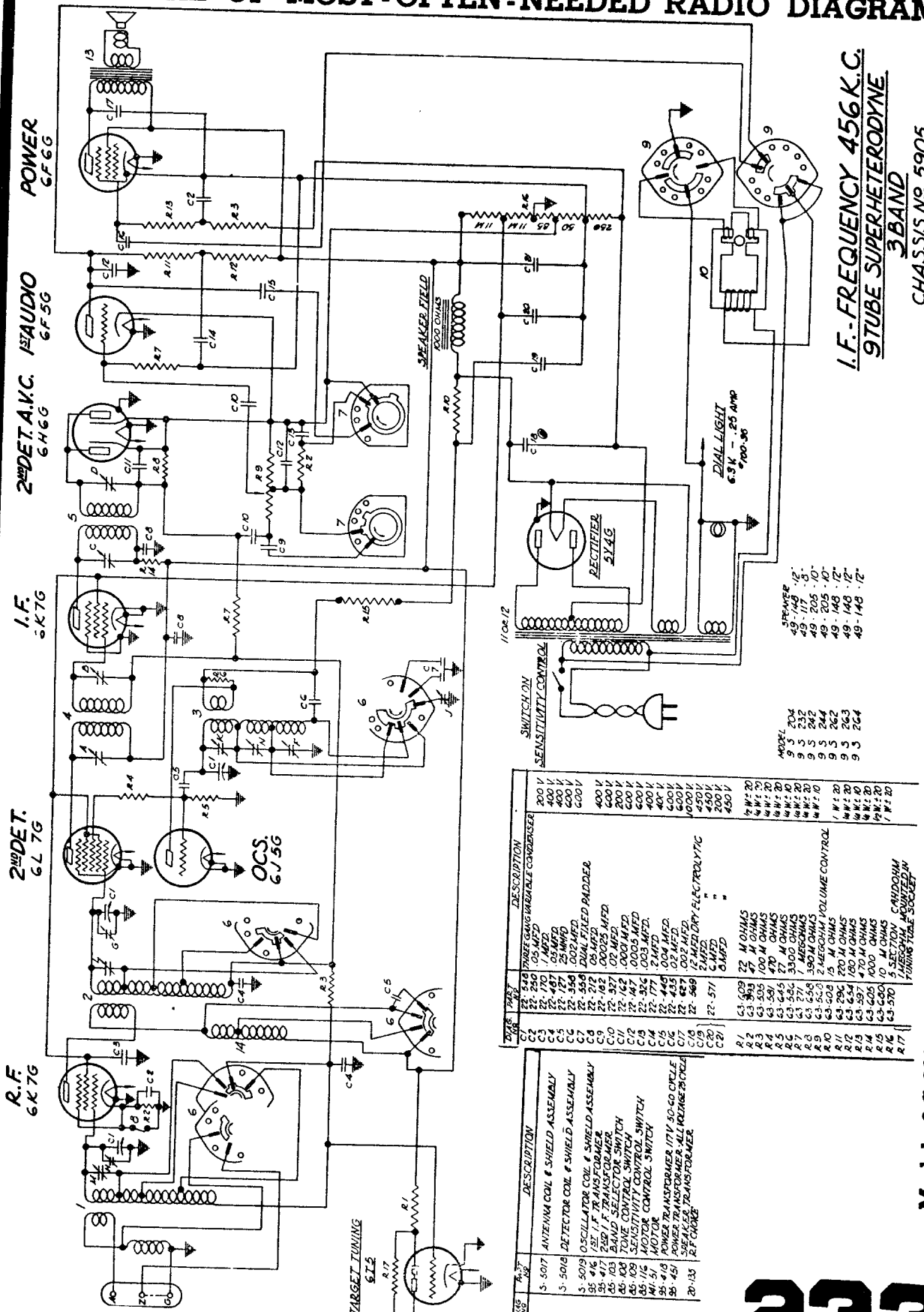
SPEAKER	MODEL
49-179-8"	7 5-323
49-251-10"	7 5-342
49-251-10"	7 5-343
49-208-10"	7 5-363
49-249-12"	7 5-364
49-266-12"	7 5-364

Chassis No. 5714

I. F. FREQUENCY 455 KC.
7 TUBE SUPERHETERODYNE
CHASSIS NO. 5714-AC. 3-BAND
ZENITH RADIO CORPORATION

PART NO.	QTY.	PART NO.	DESCRIPTION
1	1	6A8G	CONVERTER
2	1	6K7G	I.F. TUBE
3	1	6J5G	DETECTOR
4	1	6F5G	AMP
5	1	6F6G	POWER AMP
6	1	6U5	INDICATOR
7	1	6X5G	RECTIFIER
8	1	6000	500 OHM RESISTOR
9	1	6000	500 OHM RESISTOR
10	1	6000	500 OHM RESISTOR
11	1	6000	500 OHM RESISTOR
12	1	6000	500 OHM RESISTOR
13	1	6000	500 OHM RESISTOR
14	1	6000	500 OHM RESISTOR
15	1	6000	500 OHM RESISTOR
16	1	6000	500 OHM RESISTOR
17	1	6000	500 OHM RESISTOR
18	1	6000	500 OHM RESISTOR
19	1	6000	500 OHM RESISTOR
20	1	6000	500 OHM RESISTOR
21	1	6000	500 OHM RESISTOR
22	1	6000	500 OHM RESISTOR
23	1	6000	500 OHM RESISTOR
24	1	6000	500 OHM RESISTOR
25	1	6000	500 OHM RESISTOR
26	1	6000	500 OHM RESISTOR
27	1	6000	500 OHM RESISTOR
28	1	6000	500 OHM RESISTOR
29	1	6000	500 OHM RESISTOR
30	1	6000	500 OHM RESISTOR
31	1	6000	500 OHM RESISTOR
32	1	6000	500 OHM RESISTOR
33	1	6000	500 OHM RESISTOR
34	1	6000	500 OHM RESISTOR
35	1	6000	500 OHM RESISTOR
36	1	6000	500 OHM RESISTOR
37	1	6000	500 OHM RESISTOR
38	1	6000	500 OHM RESISTOR
39	1	6000	500 OHM RESISTOR
40	1	6000	500 OHM RESISTOR
41	1	6000	500 OHM RESISTOR
42	1	6000	500 OHM RESISTOR
43	1	6000	500 OHM RESISTOR
44	1	6000	500 OHM RESISTOR
45	1	6000	500 OHM RESISTOR
46	1	6000	500 OHM RESISTOR
47	1	6000	500 OHM RESISTOR
48	1	6000	500 OHM RESISTOR
49	1	6000	500 OHM RESISTOR
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51	1	6000	500 OHM RESISTOR
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58	1	6000	500 OHM RESISTOR
59	1	6000	500 OHM RESISTOR
60	1	6000	500 OHM RESISTOR
61	1	6000	500 OHM RESISTOR
62	1	6000	500 OHM RESISTOR
63	1	6000	500 OHM RESISTOR
64	1	6000	500 OHM RESISTOR
65	1	6000	500 OHM RESISTOR
66	1	6000	500 OHM RESISTOR
67	1	6000	500 OHM RESISTOR
68	1	6000	500 OHM RESISTOR
69	1	6000	500 OHM RESISTOR
70	1	6000	500 OHM RESISTOR
71	1	6000	500 OHM RESISTOR
72	1	6000	500 OHM RESISTOR
73	1	6000	500 OHM RESISTOR
74	1	6000	500 OHM RESISTOR
75	1	6000	500 OHM RESISTOR
76	1	6000	500 OHM RESISTOR
77	1	6000	500 OHM RESISTOR
78	1	6000	500 OHM RESISTOR
79	1	6000	500 OHM RESISTOR
80	1	6000	500 OHM RESISTOR
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82	1	6000	500 OHM RESISTOR
83	1	6000	500 OHM RESISTOR
84	1	6000	500 OHM RESISTOR
85	1	6000	500 OHM RESISTOR
86	1	6000	500 OHM RESISTOR
87	1	6000	500 OHM RESISTOR
88	1	6000	500 OHM RESISTOR
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90	1	6000	500 OHM RESISTOR
91	1	6000	500 OHM RESISTOR
92	1	6000	500 OHM RESISTOR
93	1	6000	500 OHM RESISTOR
94	1	6000	500 OHM RESISTOR
95	1	6000	500 OHM RESISTOR
96	1	6000	500 OHM RESISTOR
97	1	6000	500 OHM RESISTOR
98	1	6000	500 OHM RESISTOR
99	1	6000	500 OHM RESISTOR
100	1	6000	500 OHM RESISTOR

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



I.F.-FREQUENCY 456 K.C.
 9-TUBE SUPERHETERODYNE
 3-BAND
 CHASSIS NO. 5905

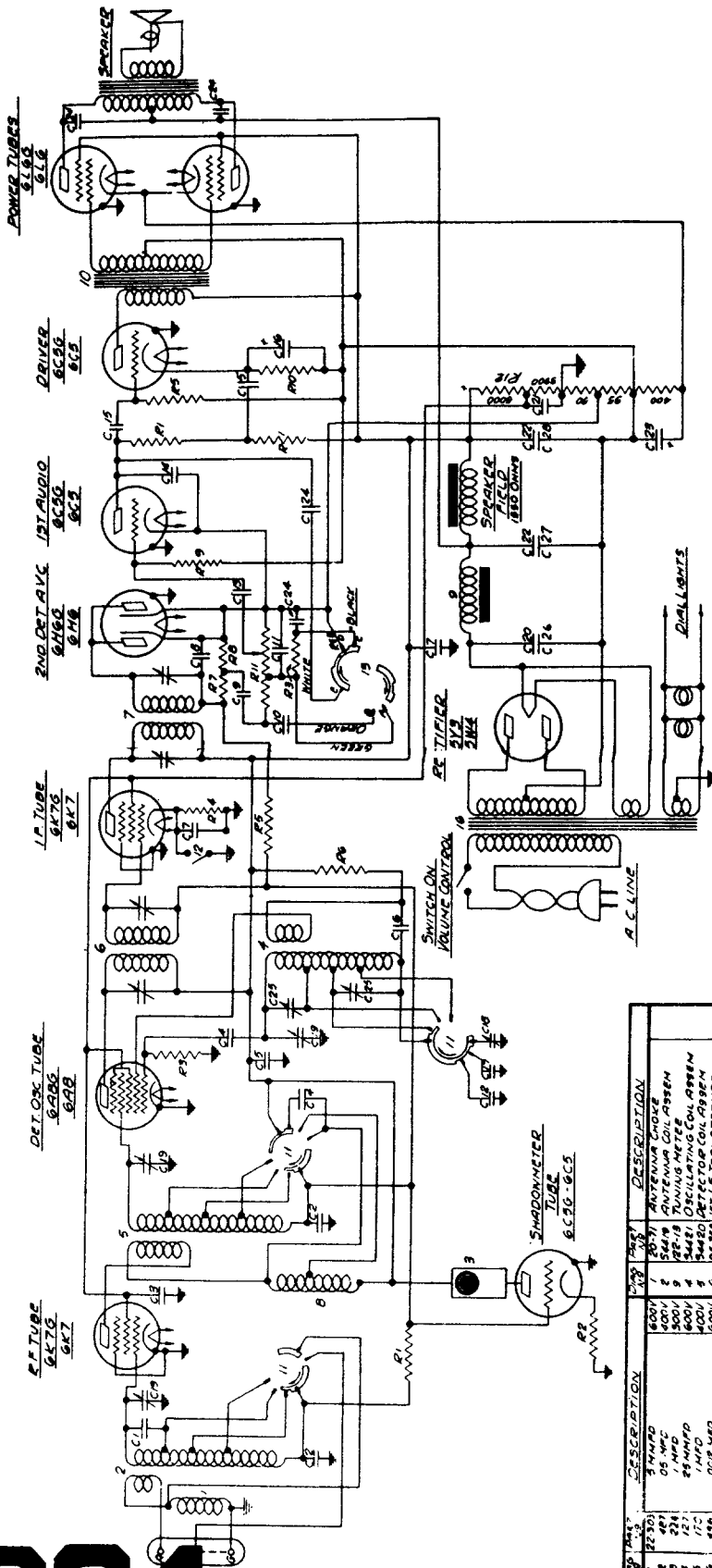
- SW-POWER
- 49-148-16"
 - 49-205-10"
 - 49-205-10"
 - 49-205-10"
 - 49-148-12"
 - 49-148-12"
 - 49-148-12"
- MODEL TOL
- 9 3 232
 - 9 5 242
 - 9 5 244
 - 9 5 262
 - 9 5 263
 - 9 5 264

PART	DESCRIPTION
C1	200 V
C2	22-250 .05 MFD
C3	1 MFD
C4	22-487 .05 MFD
C5	22-350 .05 MFD
C6	22-350 .05 MFD
C7	22-272 .05 MFD
C8	22-162 .0022 MFD
C9	22-327 .02 MFD
C10	22-142 .001 MFD
C11	22-324 .003 MFD
C12	22-177 .2 MFD
C13	22-440 .004 MFD
C14	22-435 .02 MFD
C15	22-560 .02 MFD
C16	1000V 10 MFD
C17	250V 2 MFD
C18	250V 2 MFD
C19	250V 2 MFD
C20	250V 2 MFD
C21	450V 2 MFD
C22	450V 2 MFD
R1	51-029 72 M OHMS
R2	51-363 47 M OHMS
R3	51-305 100 M OHMS
R4	51-581 470 OHMS
R5	51-581 470 OHMS
R6	51-581 470 OHMS
R7	51-271 750 OHMS
R8	51-581 470 OHMS
R9	51-581 470 OHMS
R10	51-581 470 OHMS
R11	51-581 470 OHMS
R12	51-581 470 OHMS
R13	51-581 470 OHMS
R14	51-581 470 OHMS
R15	51-581 470 OHMS
R16	51-581 470 OHMS
R17	51-581 470 OHMS

PART	DESCRIPTION
S-507	ANTENNA COIL & SHIELD ASSEMBLY
S-508	DETECTOR COIL & SHIELD ASSEMBLY
S-509	OSCILLATOR COIL & SHIELD ASSEMBLY
S-416	1ST I.F. TRANSFORMER
S-417	2ND I.F. TRANSFORMER
S-103	BAND SELECTOR SWITCH
S-104	TONE CONTROL SWITCH
S-105	VOLUME CONTROL SWITCH
M-51	MOTOR CONTROL SWITCH
S-418	POWER TRANSFORMER 170V 50-60 CYCLE
S-451	POWER TRANSFORMER ALL RANGES 200V
S-452	20-133
S-453	20-133
S-454	20-133
S-455	20-133

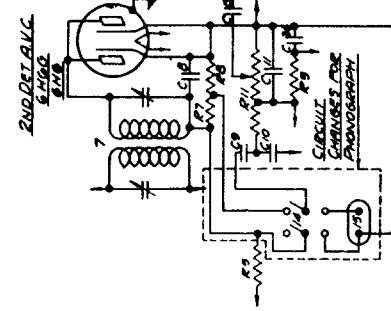
Models 9-S-203, 9-S-232, 9-S-242, 9-S-244, 9-S-262, 9-S-263, 9-S-264 (5905 Chassis)

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



SPEAKER	MODEL
48-146	8" 103182
48-147	8" 103183
48-148	8" 103184
48-149	8" 103185
48-150	8" 103186

(Chassis No. 1004)



IF FREQUENCY 456 KC.
10 TUBE SUPERHETERODYNE — 3-BAND
CHASSIS NO 1004

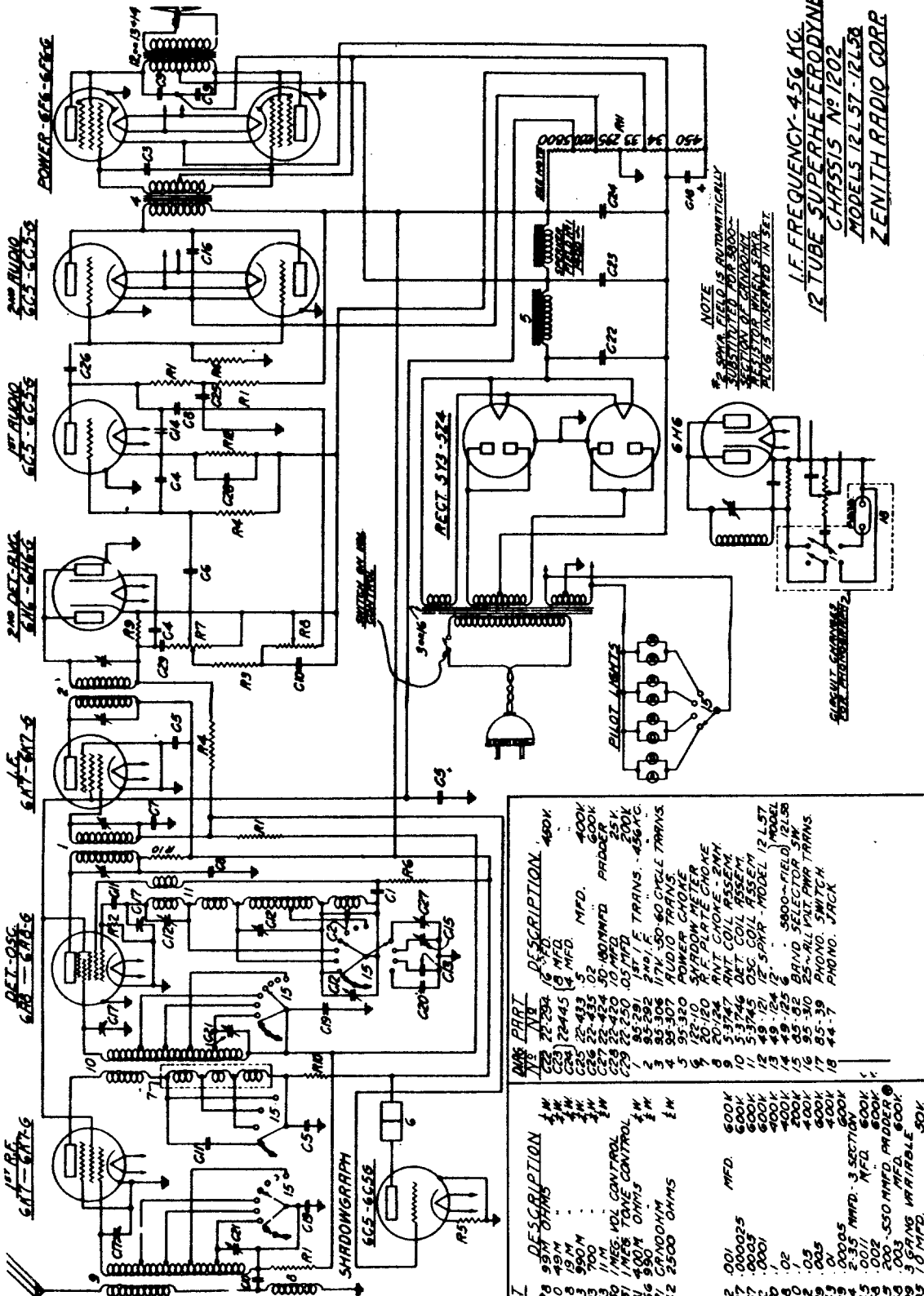
ZENITH RADIO CORPORATION

Models 10-S-30, 10-S-155, 10-S-156, 10-S-160, 10-S-147, 10-S-153, 10-S-157.

Part No.	Description	Part No.	Description
1	5MFD	10	10MFD 50V
2	0.001 MFD	11	0.001 MFD
3	0.001 MFD	12	0.001 MFD
4	0.001 MFD	13	0.001 MFD
5	0.001 MFD	14	0.001 MFD
6	0.001 MFD	15	0.001 MFD
7	0.001 MFD	16	0.001 MFD
8	0.001 MFD	17	0.001 MFD
9	0.001 MFD	18	0.001 MFD
10	0.001 MFD	19	0.001 MFD
11	0.001 MFD	20	0.001 MFD
12	0.001 MFD	21	0.001 MFD
13	0.001 MFD	22	0.001 MFD
14	0.001 MFD	23	0.001 MFD
15	0.001 MFD	24	0.001 MFD
16	0.001 MFD	25	0.001 MFD
17	0.001 MFD	26	0.001 MFD
18	0.001 MFD	27	0.001 MFD
19	0.001 MFD	28	0.001 MFD
20	0.001 MFD	29	0.001 MFD
21	0.001 MFD	30	0.001 MFD
22	0.001 MFD	31	0.001 MFD
23	0.001 MFD	32	0.001 MFD
24	0.001 MFD	33	0.001 MFD
25	0.001 MFD	34	0.001 MFD
26	0.001 MFD	35	0.001 MFD
27	0.001 MFD	36	0.001 MFD
28	0.001 MFD	37	0.001 MFD
29	0.001 MFD	38	0.001 MFD
30	0.001 MFD	39	0.001 MFD
31	0.001 MFD	40	0.001 MFD
32	0.001 MFD	41	0.001 MFD
33	0.001 MFD	42	0.001 MFD
34	0.001 MFD	43	0.001 MFD
35	0.001 MFD	44	0.001 MFD
36	0.001 MFD	45	0.001 MFD
37	0.001 MFD	46	0.001 MFD
38	0.001 MFD	47	0.001 MFD
39	0.001 MFD	48	0.001 MFD
40	0.001 MFD	49	0.001 MFD
41	0.001 MFD	50	0.001 MFD
42	0.001 MFD	51	0.001 MFD
43	0.001 MFD	52	0.001 MFD
44	0.001 MFD	53	0.001 MFD
45	0.001 MFD	54	0.001 MFD
46	0.001 MFD	55	0.001 MFD
47	0.001 MFD	56	0.001 MFD
48	0.001 MFD	57	0.001 MFD
49	0.001 MFD	58	0.001 MFD
50	0.001 MFD	59	0.001 MFD
51	0.001 MFD	60	0.001 MFD
52	0.001 MFD	61	0.001 MFD
53	0.001 MFD	62	0.001 MFD
54	0.001 MFD	63	0.001 MFD
55	0.001 MFD	64	0.001 MFD
56	0.001 MFD	65	0.001 MFD
57	0.001 MFD	66	0.001 MFD
58	0.001 MFD	67	0.001 MFD
59	0.001 MFD	68	0.001 MFD
60	0.001 MFD	69	0.001 MFD
61	0.001 MFD	70	0.001 MFD
62	0.001 MFD	71	0.001 MFD
63	0.001 MFD	72	0.001 MFD
64	0.001 MFD	73	0.001 MFD
65	0.001 MFD	74	0.001 MFD
66	0.001 MFD	75	0.001 MFD
67	0.001 MFD	76	0.001 MFD
68	0.001 MFD	77	0.001 MFD
69	0.001 MFD	78	0.001 MFD
70	0.001 MFD	79	0.001 MFD
71	0.001 MFD	80	0.001 MFD
72	0.001 MFD	81	0.001 MFD
73	0.001 MFD	82	0.001 MFD
74	0.001 MFD	83	0.001 MFD
75	0.001 MFD	84	0.001 MFD
76	0.001 MFD	85	0.001 MFD
77	0.001 MFD	86	0.001 MFD
78	0.001 MFD	87	0.001 MFD
79	0.001 MFD	88	0.001 MFD
80	0.001 MFD	89	0.001 MFD
81	0.001 MFD	90	0.001 MFD
82	0.001 MFD	91	0.001 MFD
83	0.001 MFD	92	0.001 MFD
84	0.001 MFD	93	0.001 MFD
85	0.001 MFD	94	0.001 MFD
86	0.001 MFD	95	0.001 MFD
87	0.001 MFD	96	0.001 MFD
88	0.001 MFD	97	0.001 MFD
89	0.001 MFD	98	0.001 MFD
90	0.001 MFD	99	0.001 MFD
91	0.001 MFD	100	0.001 MFD

NOTE: RESISTORS AND DRY ELECTROLYTIC CAPACITORS ARE IN OHMS UNLESS OTHERWISE SPECIFIED. ALL ELECTROLYTIC CAPACITORS ARE 50V UNLESS OTHERWISE SPECIFIED. ALL RESISTORS ARE 1/2W UNLESS OTHERWISE SPECIFIED.

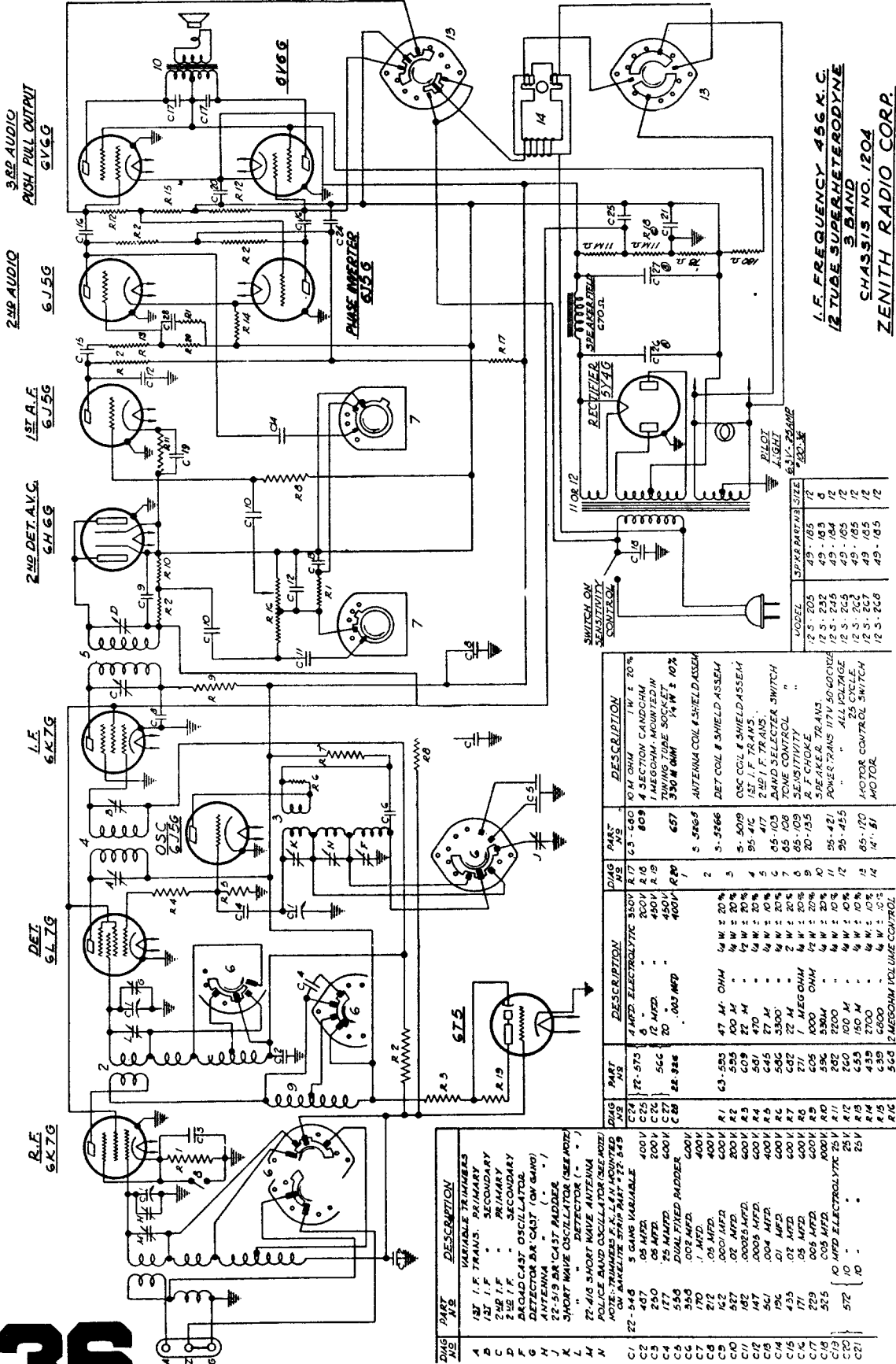
MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



1202 PART NO.	DESCRIPTION	1202 PART NO.	DESCRIPTION
A1	1W	CR1	500K
A2	1W	CR2	500K
A3	1W	CR3	500K
A4	1W	CR4	500K
A5	1W	CR5	500K
A6	1W	CR6	500K
A7	1W	CR7	500K
A8	1W	CR8	500K
A9	1W	CR9	500K
A10	1W	CR10	500K
A11	1W	CR11	500K
A12	1W	CR12	500K
C1	0.01	CR13	500K
C2	0.00025	CR14	500K
C3	0.003	CR15	500K
C4	0.001	CR16	500K
C5	0.001	CR17	500K
C6	0.001	CR18	500K
C7	0.001	CR19	500K
C8	0.001	CR20	500K
C9	0.001	CR21	500K
C10	0.001	CR22	500K
C11	0.001	CR23	500K
C12	0.001	CR24	500K
C13	0.001	CR25	500K
C14	0.001	CR26	500K
C15	0.001	CR27	500K
C16	0.001	CR28	500K
C17	0.001	CR29	500K
C18	0.001	CR30	500K
C19	0.001	CR31	500K
C20	0.001	CR32	500K
C21	0.001	CR33	500K
C22	0.001	CR34	500K
C23	0.001	CR35	500K
C24	0.001	CR36	500K
C25	0.001	CR37	500K
C26	0.001	CR38	500K
C27	0.001	CR39	500K
C28	0.001	CR40	500K
C29	0.001	CR41	500K
C30	0.001	CR42	500K
C31	0.001	CR43	500K
C32	0.001	CR44	500K
C33	0.001	CR45	500K
C34	0.001	CR46	500K
C35	0.001	CR47	500K
C36	0.001	CR48	500K
C37	0.001	CR49	500K
C38	0.001	CR50	500K
C39	0.001	CR51	500K
C40	0.001	CR52	500K
C41	0.001	CR53	500K
C42	0.001	CR54	500K
C43	0.001	CR55	500K
C44	0.001	CR56	500K
C45	0.001	CR57	500K
C46	0.001	CR58	500K
C47	0.001	CR59	500K
C48	0.001	CR60	500K
C49	0.001	CR61	500K
C50	0.001	CR62	500K
C51	0.001	CR63	500K
C52	0.001	CR64	500K
C53	0.001	CR65	500K
C54	0.001	CR66	500K
C55	0.001	CR67	500K
C56	0.001	CR68	500K
C57	0.001	CR69	500K
C58	0.001	CR70	500K
C59	0.001	CR71	500K
C60	0.001	CR72	500K
C61	0.001	CR73	500K
C62	0.001	CR74	500K
C63	0.001	CR75	500K
C64	0.001	CR76	500K
C65	0.001	CR77	500K
C66	0.001	CR78	500K
C67	0.001	CR79	500K
C68	0.001	CR80	500K
C69	0.001	CR81	500K
C70	0.001	CR82	500K
C71	0.001	CR83	500K
C72	0.001	CR84	500K
C73	0.001	CR85	500K
C74	0.001	CR86	500K
C75	0.001	CR87	500K
C76	0.001	CR88	500K
C77	0.001	CR89	500K
C78	0.001	CR90	500K
C79	0.001	CR91	500K
C80	0.001	CR92	500K
C81	0.001	CR93	500K
C82	0.001	CR94	500K
C83	0.001	CR95	500K
C84	0.001	CR96	500K
C85	0.001	CR97	500K
C86	0.001	CR98	500K
C87	0.001	CR99	500K
C88	0.001	CR100	500K
C89	0.001	CR101	500K
C90	0.001	CR102	500K
C91	0.001	CR103	500K
C92	0.001	CR104	500K
C93	0.001	CR105	500K
C94	0.001	CR106	500K
C95	0.001	CR107	500K
C96	0.001	CR108	500K
C97	0.001	CR109	500K
C98	0.001	CR110	500K
C99	0.001	CR111	500K
C100	0.001	CR112	500K
C101	0.001	CR113	500K
C102	0.001	CR114	500K
C103	0.001	CR115	500K
C104	0.001	CR116	500K
C105	0.001	CR117	500K
C106	0.001	CR118	500K
C107	0.001	CR119	500K
C108	0.001	CR120	500K
C109	0.001	CR121	500K
C110	0.001	CR122	500K
C111	0.001	CR123	500K
C112	0.001	CR124	500K
C113	0.001	CR125	500K
C114	0.001	CR126	500K
C115	0.001	CR127	500K
C116	0.001	CR128	500K
C117	0.001	CR129	500K
C118	0.001	CR130	500K
C119	0.001	CR131	500K
C120	0.001	CR132	500K
C121	0.001	CR133	500K
C122	0.001	CR134	500K
C123	0.001	CR135	500K
C124	0.001	CR136	500K
C125	0.001	CR137	500K
C126	0.001	CR138	500K
C127	0.001	CR139	500K
C128	0.001	CR140	500K
C129	0.001	CR141	500K
C130	0.001	CR142	500K
C131	0.001	CR143	500K
C132	0.001	CR144	500K
C133	0.001	CR145	500K
C134	0.001	CR146	500K
C135	0.001	CR147	500K
C136	0.001	CR148	500K
C137	0.001	CR149	500K
C138	0.001	CR150	500K
C139	0.001	CR151	500K
C140	0.001	CR152	500K
C141	0.001	CR153	500K
C142	0.001	CR154	500K
C143	0.001	CR155	500K
C144	0.001	CR156	500K
C145	0.001	CR157	500K
C146	0.001	CR158	500K
C147	0.001	CR159	500K
C148	0.001	CR160	500K
C149	0.001	CR161	500K
C150	0.001	CR162	500K
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C152	0.001	CR164	500K
C153	0.001	CR165	500K
C154	0.001	CR166	500K
C155	0.001	CR167	500K
C156	0.001	CR168	500K
C157	0.001	CR169	500K
C158	0.001	CR170	500K
C159	0.001	CR171	500K
C160	0.001	CR172	500K
C161	0.001	CR173	500K
C162	0.001	CR174	500K
C163	0.001	CR175	500K
C164	0.001	CR176	500K
C165	0.001	CR177	500K
C166	0.001	CR178	500K
C167	0.001	CR179	500K
C168	0.001	CR180	500K
C169	0.001	CR181	500K
C170	0.001	CR182	500K
C171	0.001	CR183	500K
C172	0.001	CR184	500K
C173	0.001	CR185	500K
C174	0.001	CR186	500K
C175	0.001	CR187	500K
C176	0.001	CR188	500K
C177	0.001	CR189	500K
C178	0.001	CR190	500K
C179	0.001	CR191	500K
C180	0.001	CR192	500K
C181	0.001	CR193	500K
C182	0.001	CR194	500K
C183	0.001	CR195	500K
C184	0.001	CR196	500K
C185	0.001	CR197	500K
C186	0.001	CR198	500K
C187	0.001	CR199	500K
C188	0.001	CR200	500K
C189	0.001	CR201	500K
C190	0.001	CR202	500K
C191	0.001	CR203	500K
C192	0.001	CR204	500K
C193	0.001	CR205	500K
C194	0.001	CR206	500K
C195	0.001	CR207	500K
C196	0.001	CR208	500K
C197	0.001	CR209	500K
C198	0.001	CR210	500K
C199	0.001	CR211	500K
C200	0.001	CR212	500K
C201	0.001	CR213	500K
C202	0.001	CR214	500K
C203	0.001	CR215	500K
C204	0.001	CR216	500K
C205	0.001	CR217	500K
C206	0.001	CR218	500K
C207	0.001	CR219	500K
C208	0.001	CR220	500K
C209	0.001	CR221	500K
C210	0.001	CR222	500K
C211	0.001	CR223	500K
C212	0.001	CR224	500K
C213	0.001	CR225	500K
C214	0.001	CR226	500K
C215	0.001	CR227	500K
C216	0.001	CR228	500K
C217	0.001	CR229	500K
C218	0.001	CR230	500K
C219	0.001	CR231	500K
C220	0.001	CR232	500K
C221	0.001	CR233	500K
C222	0.001	CR234	500K
C223	0.001	CR235	500K
C224	0.001	CR236	500K
C225	0.001	CR237	500K
C226	0.001	CR238	500K
C227	0.001	CR239	500K
C228	0.001	CR240	500K
C229	0.001	CR241	500K
C230	0.001	CR242	500K
C231	0.001	CR243	500K
C232	0.001	CR244	500K
C233	0.001	CR245	500K
C234	0.001	CR246	500K
C235	0.001	CR247	500K
C236	0.001	CR248	500K
C237	0.001	CR249	500K
C238	0.001	CR250	500K
C239	0.001	CR251	500K
C240	0.001	CR252	500K
C241	0.001	CR253	500K
C242	0.001	CR254	500K
C243	0.001	CR255	500K
C244	0.001	CR256	500K
C245	0.001	CR257	500K
C246	0.001	CR258	500K
C247	0.001	CR259	500K
C248			

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS

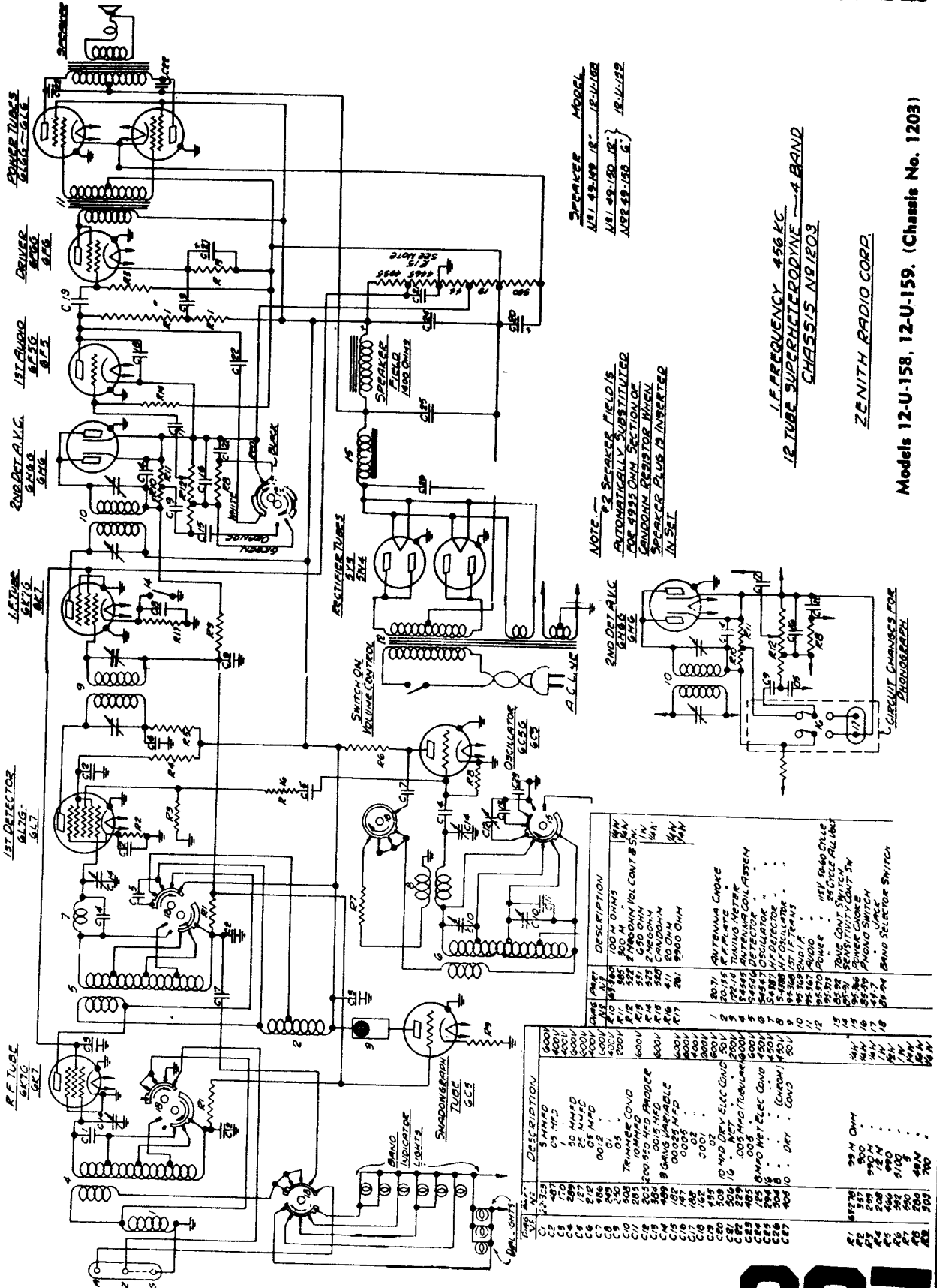
Models 12-S-205, 12-S-232, 12-S-245, 12-S-265, 12-S-266, 12-S-267, 12-S-268 (1204 Chassis)



I.F. FREQUENCY 456 K.C.
 12 TUBE SUPERHETERODYNE
 3 BAND
 CHASSIS NO. 1204
 ZENITH RADIO CORP.

DIAG. NO.	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
1	13	10V. BOLT 1/4" x .20"	13	OSC. COIL & SHIELD ASSEMBLY
2	14	4 SECTION CANDIDUM 1/2" MESH GR. MOUNTED IN TUNING TUBE SOCKET 1/4" W x 10"	14	1ST I.F. TRANS.
3	15	350 M OHM .1" W x 10"	15	2ND I.F. TRANS.
4	16	ANTENNA COIL & SHIELD ASSEMBLY	16	BAND SELECTOR SWITCH
5	17	DET. COIL & SHIELD ASSEMBLY	17	3RD I.F. TRANS.
6	18	OSC. COIL & SHIELD ASSEMBLY	18	500 OHM
7	19	1ST I.F. TRANS.	19	100 OHM
8	20	2ND I.F. TRANS.	20	500 OHM
9	21	BAND SELECTOR SWITCH	21	100 OHM
10	22	3RD I.F. TRANS.	22	500 OHM
11	23	500 OHM	23	100 OHM
12	24	100 OHM	24	500 OHM
13	25	500 OHM	25	100 OHM
14	26	100 OHM	26	500 OHM
15	27	500 OHM	27	100 OHM
16	28	100 OHM	28	500 OHM
17	29	500 OHM	29	100 OHM
18	30	100 OHM	30	500 OHM
19	31	500 OHM	31	100 OHM
20	32	100 OHM	32	500 OHM
21	33	500 OHM	33	100 OHM
22	34	100 OHM	34	500 OHM
23	35	500 OHM	35	100 OHM
24	36	100 OHM	36	500 OHM
25	37	500 OHM	37	100 OHM
26	38	100 OHM	38	500 OHM
27	39	500 OHM	39	100 OHM
28	40	100 OHM	40	500 OHM
29	41	500 OHM	41	100 OHM
30	42	100 OHM	42	500 OHM
31	43	500 OHM	43	100 OHM
32	44	100 OHM	44	500 OHM
33	45	500 OHM	45	100 OHM
34	46	100 OHM	46	500 OHM
35	47	500 OHM	47	100 OHM
36	48	100 OHM	48	500 OHM
37	49	500 OHM	49	100 OHM
38	50	100 OHM	50	500 OHM
39	51	500 OHM	51	100 OHM
40	52	100 OHM	52	500 OHM
41	53	500 OHM	53	100 OHM
42	54	100 OHM	54	500 OHM
43	55	500 OHM	55	100 OHM
44	56	100 OHM	56	500 OHM
45	57	500 OHM	57	100 OHM
46	58	100 OHM	58	500 OHM
47	59	500 OHM	59	100 OHM
48	60	100 OHM	60	500 OHM
49	61	500 OHM	61	100 OHM
50	62	100 OHM	62	500 OHM
51	63	500 OHM	63	100 OHM
52	64	100 OHM	64	500 OHM
53	65	500 OHM	65	100 OHM
54	66	100 OHM	66	500 OHM
55	67	500 OHM	67	100 OHM
56	68	100 OHM	68	500 OHM
57	69	500 OHM	69	100 OHM
58	70	100 OHM	70	500 OHM
59	71	500 OHM	71	100 OHM
60	72	100 OHM	72	500 OHM
61	73	500 OHM	73	100 OHM
62	74	100 OHM	74	500 OHM
63	75	500 OHM	75	100 OHM
64	76	100 OHM	76	500 OHM
65	77	500 OHM	77	100 OHM
66	78	100 OHM	78	500 OHM
67	79	500 OHM	79	100 OHM
68	80	100 OHM	80	500 OHM
69	81	500 OHM	81	100 OHM
70	82	100 OHM	82	500 OHM
71	83	500 OHM	83	100 OHM
72	84	100 OHM	84	500 OHM
73	85	500 OHM	85	100 OHM
74	86	100 OHM	86	500 OHM
75	87	500 OHM	87	100 OHM
76	88	100 OHM	88	500 OHM
77	89	500 OHM	89	100 OHM
78	90	100 OHM	90	500 OHM
79	91	500 OHM	91	100 OHM
80	92	100 OHM	92	500 OHM
81	93	500 OHM	93	100 OHM
82	94	100 OHM	94	500 OHM
83	95	500 OHM	95	100 OHM
84	96	100 OHM	96	500 OHM
85	97	500 OHM	97	100 OHM
86	98	100 OHM	98	500 OHM
87	99	500 OHM	99	100 OHM
88	100	100 OHM	100	500 OHM

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



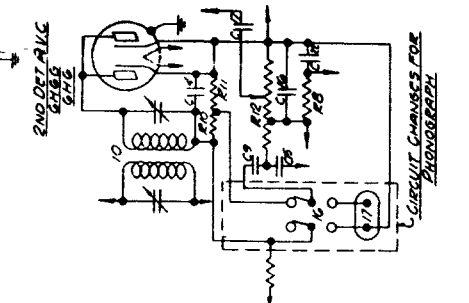
SPEAKER MODEL
 M.I. 49-100 12" 12-U-158
 M.I. 49-100 12" 12-U-159
 M.I. 49-100 6" 12-U-159

NOTE: #2 SPEAKER FIELD IS AUTOMATICALLY SUBSTITUTED FOR 4993 OHM SECTION OF GRID-DRAIN RESISTOR WHEN SPEAKER PLUS IS INVERTED IN SET.

I.F. FREQUENCY 456 KC
12 TUBE SUPERHETERODYNE - 4 BAND
CHASSIS N91203

ZENITH RADIO CORP.

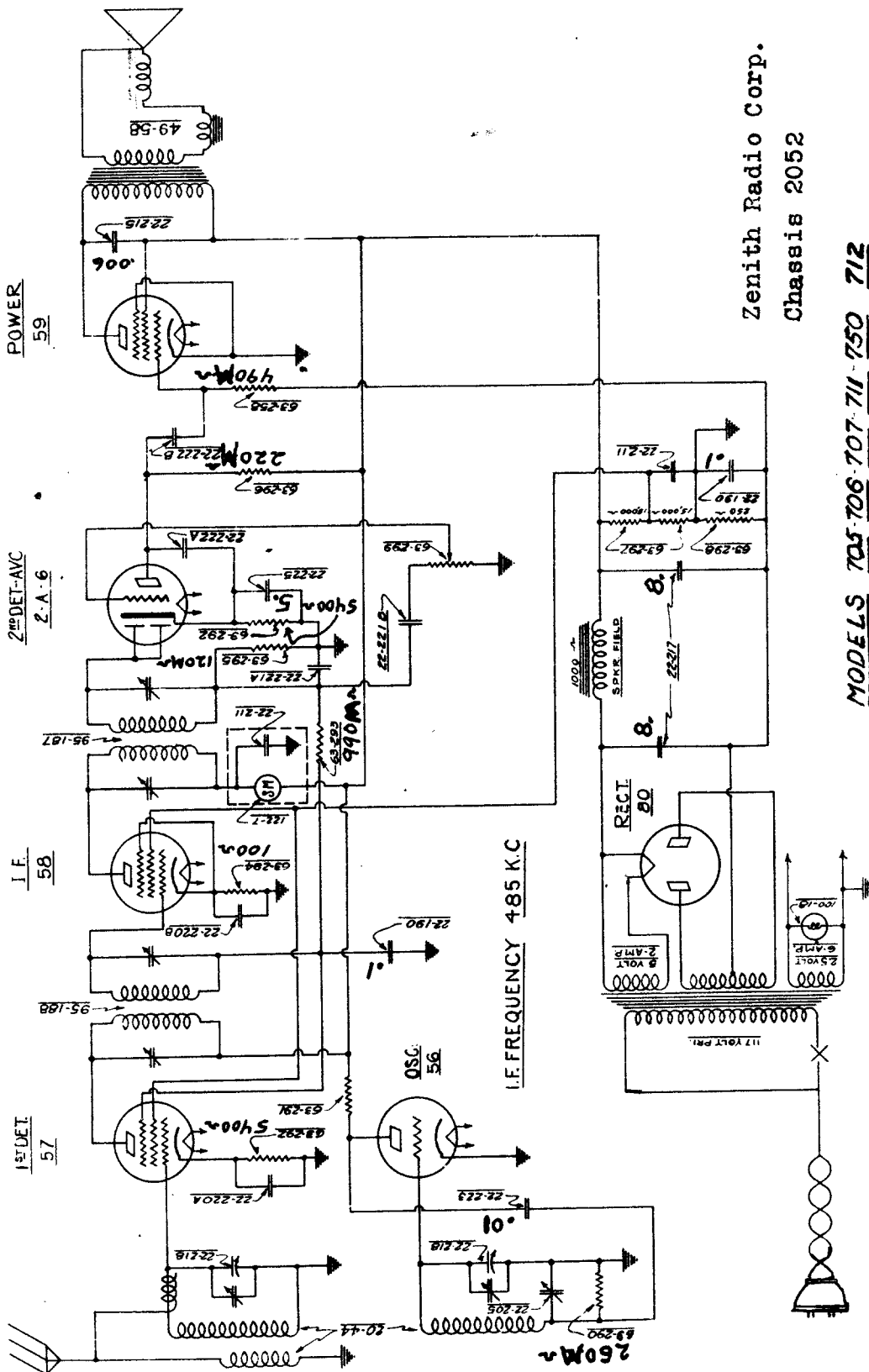
Models 12-U-158, 12-U-159. (Chassis No. 1203)



CIRCUIT CHANGES FOR ZENITH MODELS

TYPE	NO.	DESCRIPTION	VALUE
C1	50	500K	500K
C2	170	50 MFD	50 MFD
C3	287	25 MFD	25 MFD
C4	287	25 MFD	25 MFD
C5	46	0.01 MFD	0.01 MFD
C6	46	0.01 MFD	0.01 MFD
C7	287	25 MFD	25 MFD
C8	287	25 MFD	25 MFD
C9	304	200-500 MFD POWER	200-500 MFD
C10	304	0.01 MFD	0.01 MFD
C11	409	500 MFD	500 MFD
C12	409	500 MFD	500 MFD
C13	122	0.005 MFD	0.005 MFD
C14	122	0.005 MFD	0.005 MFD
C15	122	0.005 MFD	0.005 MFD
C16	122	0.005 MFD	0.005 MFD
C17	122	0.005 MFD	0.005 MFD
C18	122	0.005 MFD	0.005 MFD
C19	508	10 MFD WET ELEC COND	10 MFD WET ELEC COND
C20	508	10 MFD WET ELEC COND	10 MFD WET ELEC COND
C21	508	10 MFD WET ELEC COND	10 MFD WET ELEC COND
C22	229	0.005 MFD	0.005 MFD
C23	485	0.005 MFD	0.005 MFD
C24	485	0.005 MFD	0.005 MFD
C25	485	0.005 MFD	0.005 MFD
C26	508	10 MFD WET ELEC COND	10 MFD WET ELEC COND
C27	508	10 MFD WET ELEC COND	10 MFD WET ELEC COND
C28	408	10 MFD WET ELEC COND	10 MFD WET ELEC COND
C29	408	10 MFD WET ELEC COND	10 MFD WET ELEC COND
R1	10	500K	500K
R2	10	500K	500K
R3	10	500K	500K
R4	10	500K	500K
R5	10	500K	500K
R6	10	500K	500K
R7	10	500K	500K
R8	10	500K	500K
R9	10	500K	500K
R10	10	500K	500K
R11	10	500K	500K
R12	10	500K	500K
R13	10	500K	500K
R14	10	500K	500K
R15	10	500K	500K
R16	10	500K	500K
R17	10	500K	500K
R18	10	500K	500K
R19	10	500K	500K
R20	10	500K	500K
R21	10	500K	500K
R22	10	500K	500K
R23	10	500K	500K
R24	10	500K	500K
R25	10	500K	500K
R26	10	500K	500K
R27	10	500K	500K
R28	10	500K	500K
R29	10	500K	500K
R30	10	500K	500K
R31	10	500K	500K
R32	10	500K	500K
R33	10	500K	500K
R34	10	500K	500K
R35	10	500K	500K
R36	10	500K	500K
R37	10	500K	500K
R38	10	500K	500K
R39	10	500K	500K
R40	10	500K	500K
R41	10	500K	500K
R42	10	500K	500K
R43	10	500K	500K
R44	10	500K	500K
R45	10	500K	500K
R46	10	500K	500K
R47	10	500K	500K
R48	10	500K	500K
R49	10	500K	500K
R50	10	500K	500K
R51	10	500K	500K
R52	10	500K	500K
R53	10	500K	500K
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R56	10	500K	500K
R57	10	500K	500K
R58	10	500K	500K
R59	10	500K	500K
R60	10	500K	500K
R61	10	500K	500K
R62	10	500K	500K
R63	10	500K	500K
R64	10	500K	500K
R65	10	500K	500K
R66	10	500K	500K
R67	10	500K	500K
R68	10	500K	500K
R69	10	500K	500K
R70	10	500K	500K
R71	10	500K	500K
R72	10	500K	500K
R73	10	500K	500K
R74	10	500K	500K
R75	10	500K	500K
R76	10	500K	500K
R77	10	500K	500K
R78	10	500K	500K
R79	10	500K	500K
R80	10	500K	500K
R81	10	500K	500K
R82	10	500K	500K
R83	10	500K	500K
R84	10	500K	500K
R85	10	500K	500K
R86	10	500K	500K
R87	10	500K	500K
R88	10	500K	500K
R89	10	500K	500K
R90	10	500K	500K
R91	10	500K	500K
R92	10	500K	500K
R93	10	500K	500K
R94	10	500K	500K
R95	10	500K	500K
R96	10	500K	500K
R97	10	500K	500K
R98	10	500K	500K
R99	10	500K	500K
R100	10	500K	500K

MANUAL OF MOST-OFTEN-NEEDED RADIO DIAGRAMS



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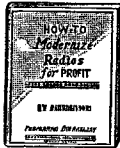
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