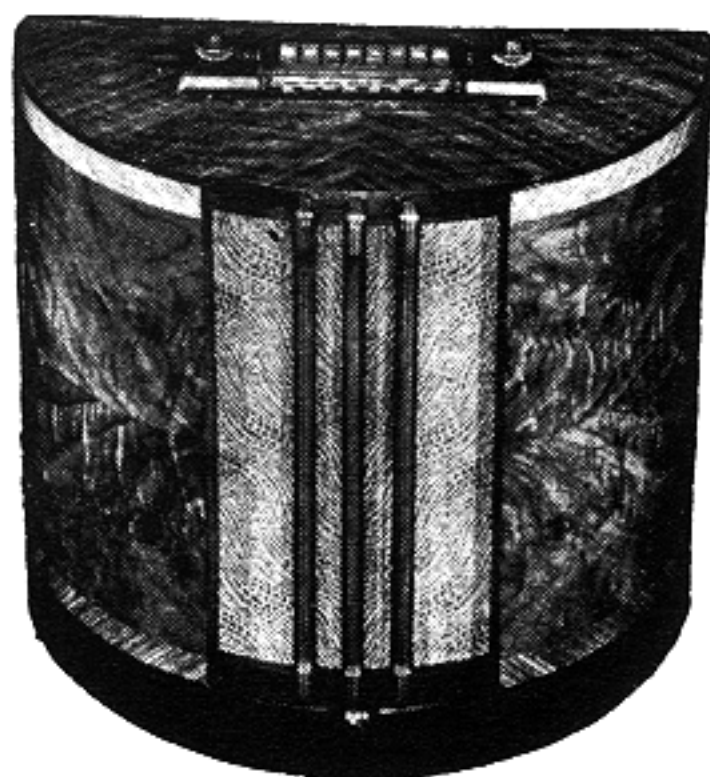


MODELS 96E2, 96K5, 96K6, 96T7, 97K2, and 97T2

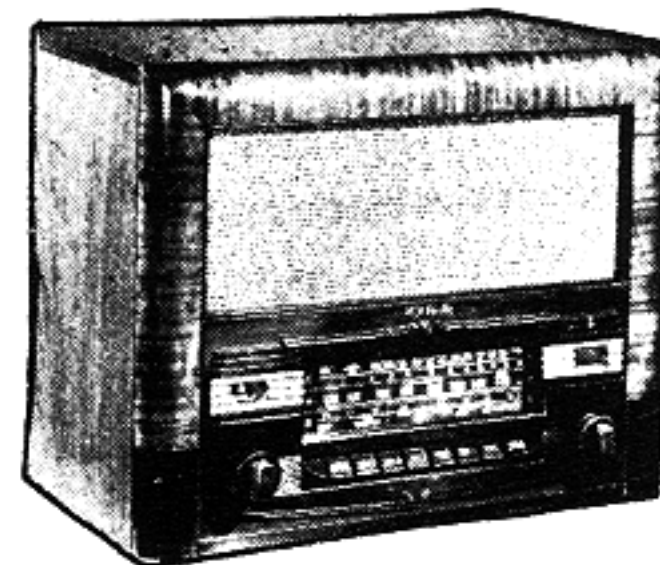
Chassis No. RC-351L RC-351L RC-351L RC-351L RC-351K RC-351K

**Six- and Seven-Tube, Three-Band, Electric-Tuning, A-C
Superheterodyne Receivers**

Model 96E2
6 Tubes, 8-in. Speaker



Model 96T7
6 Tubes, 6-in. Speaker



Model 97T2
7 Tubes, 6-in. Speaker

Electrical Specifications**FREQUENCY RANGES**

"Standard Broadcast" (A)..... 540-1,720 kc

"Medium Wave" (B)..... 2.3-7.0 mc

"Short Wave" (C)..... 7.0-22 mc

Six Electric Tuning Positions..... 550-1,500 kc

2 stations between approximately 550- 950 kc

2 stations between approximately 690-1,225 kc

2 stations between approximately 890-1,500 kc

TUBE COMPLEMENT

(1) RCA-6K8..... First Detector—Oscillator

(2) RCA-6K7..... Intermediate-Frequency Amplifier

(3) RCA-6H6..... Second Detector and A.V.C.

(4) RCA-6F5..... Audio Voltage Amplifier

(5) RCA-6F6-G..... Audio Power Amplifier

(6) RCA-5Y3-G..... Full-Wave Rectifier

(7) RCA-6U5 (Models 97K2 and 97T2).... Tuning Tube

Pilot Lamps (1 on Models 96K5, 96K6, 96E2, 96T7) (2 on Models 97K2, 97T2)..... Mazda No. 47, 6.3 volts, .15 amp.

POWER SUPPLY RATING

Rating A..... 105-125 volts, 50-60 cycles, 80 watts

Rating B..... 105-125 volts, 25-60 cycles, 80 watts

Rating C..... 100-130/140-160/195-250 volts, 40-60 cycles, 80 watts

POWER OUTPUT

96T7, 97T2

96E2, 96K5, 96K6, 97K2

Undistorted..... 2.0 watts..... 2.5 watts

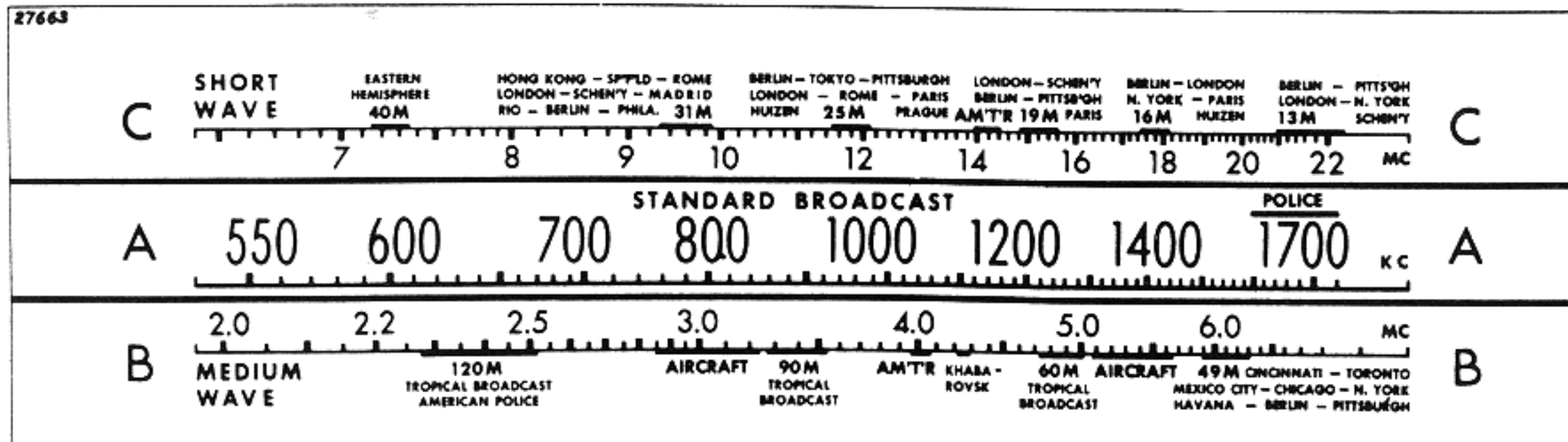
Maximum..... 4.0 watts..... 4.5 watts

LOUDSPEAKER

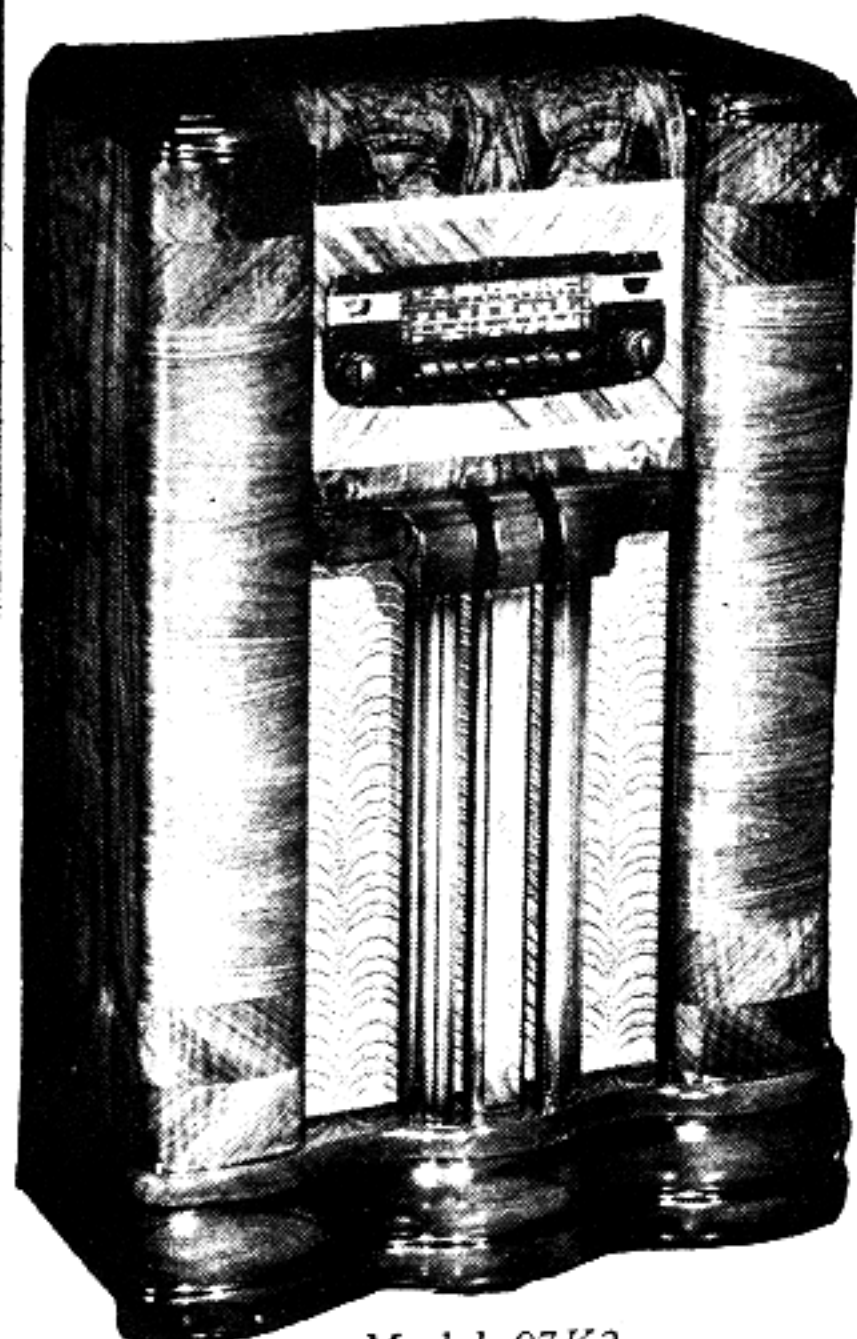
Type..... Electrodynamic

Voice-coil impedance 84308-1, 84308-4, RL63H-3, RL70H-1, 2.2 ohms, RL79-1..... 3.4 ohms..... at 400 cycles

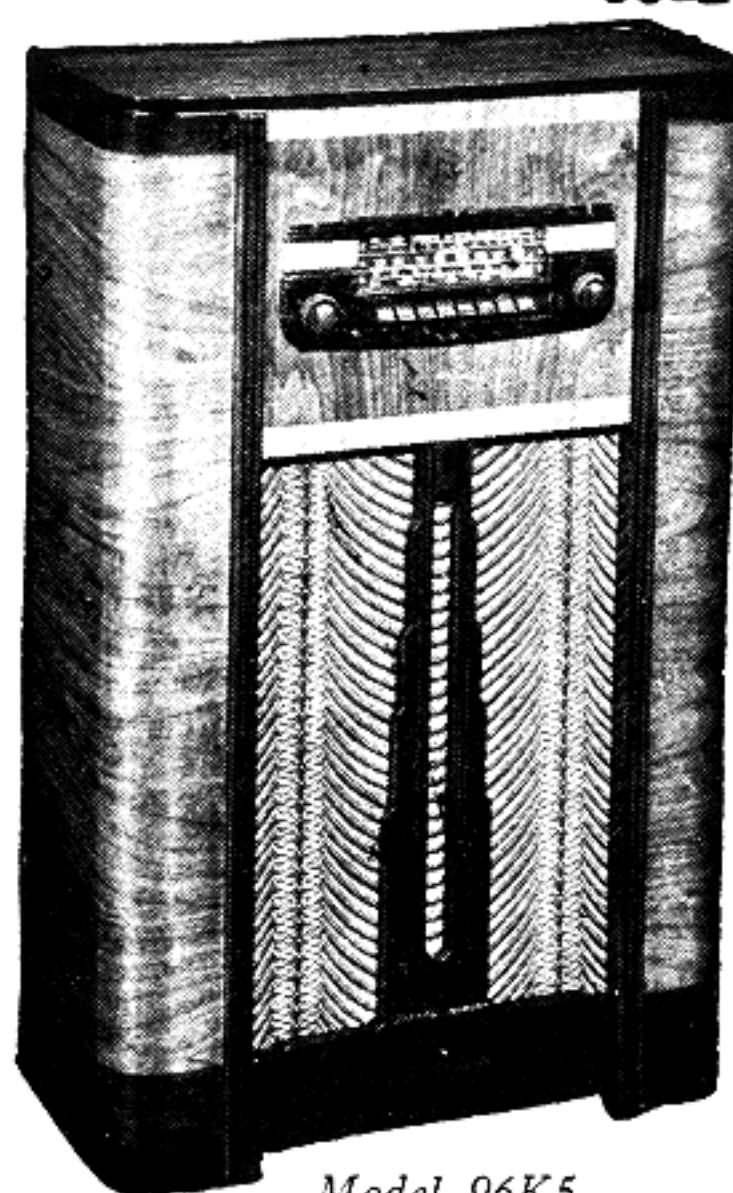
27663



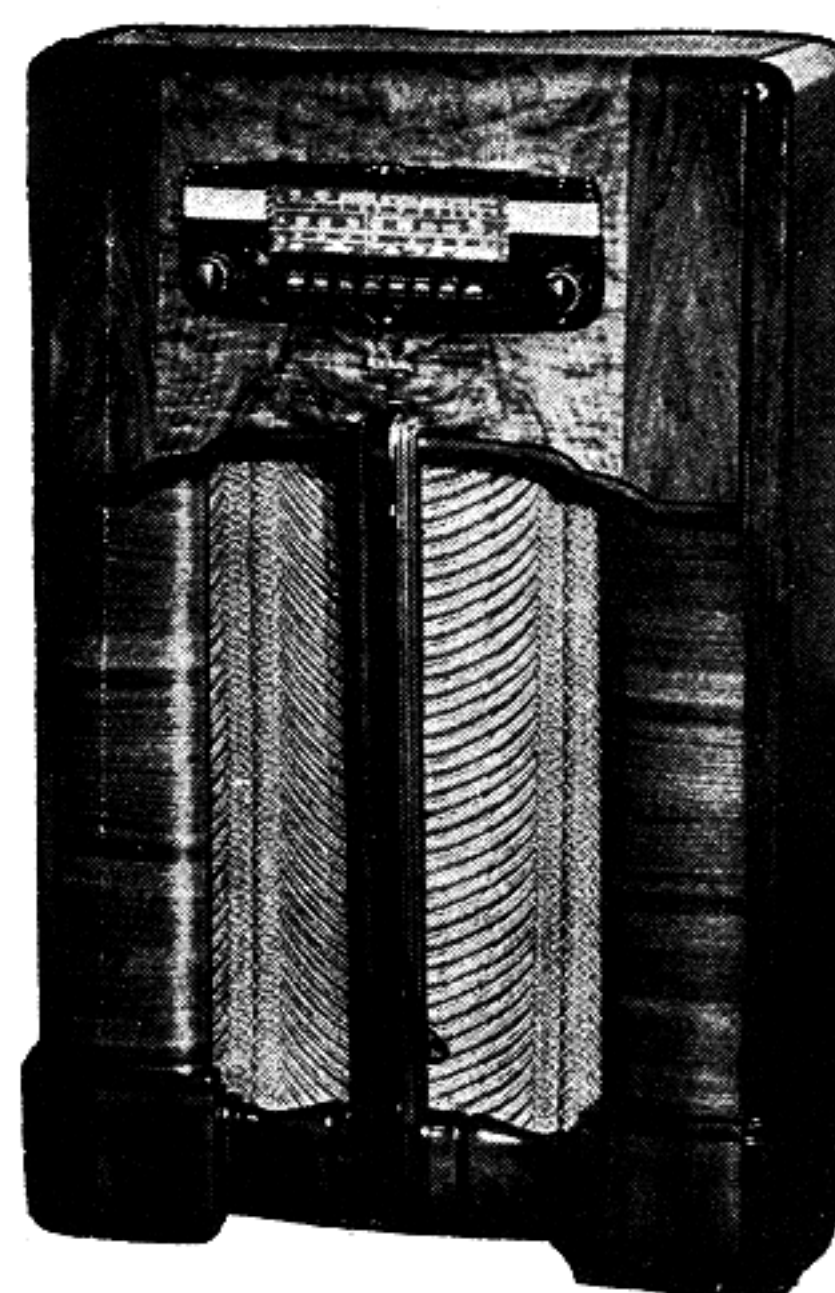
Reduced Reproduction of Receiver Dial, and Corresponding 0-180° Calibration Scales



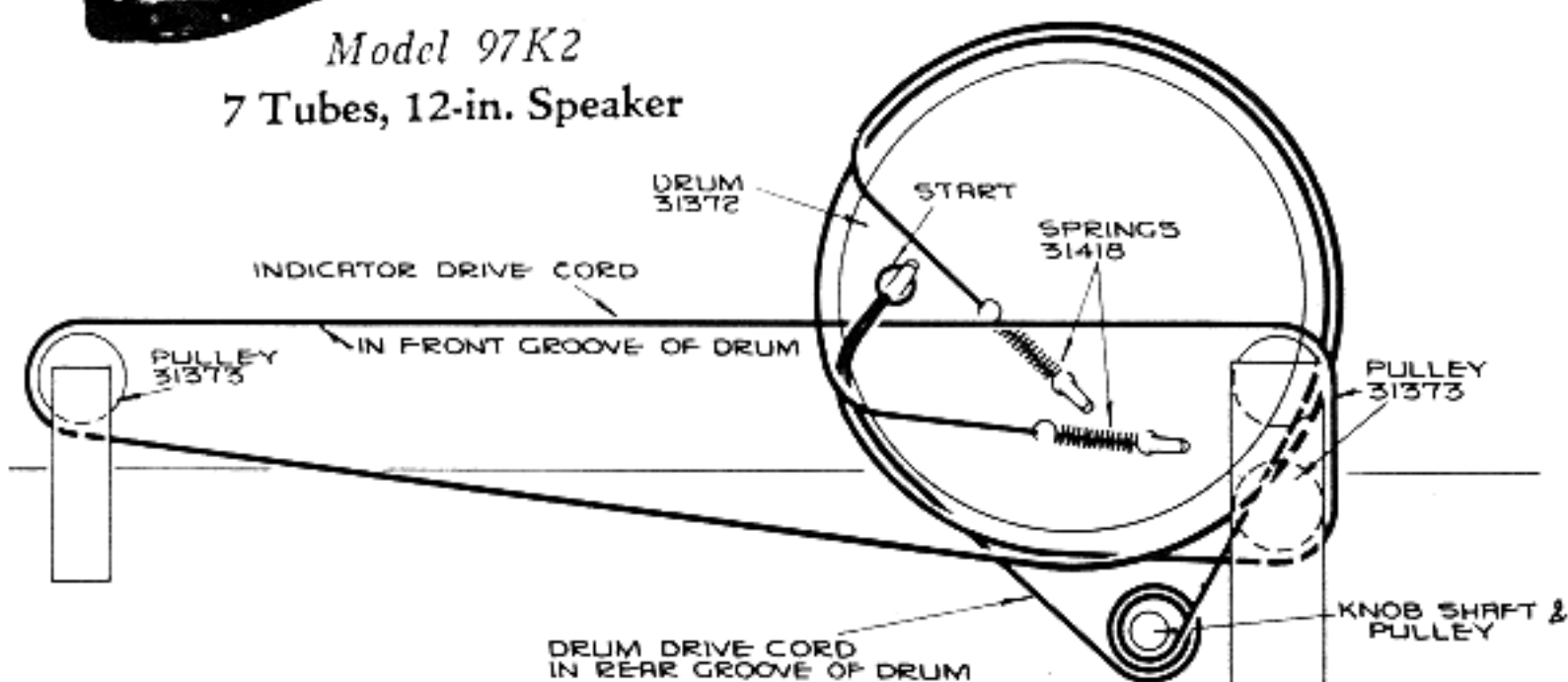
Model 97K2
7 Tubes, 12-in. Speaker



Model 96K5
6 Tubes, 12-in. Speaker



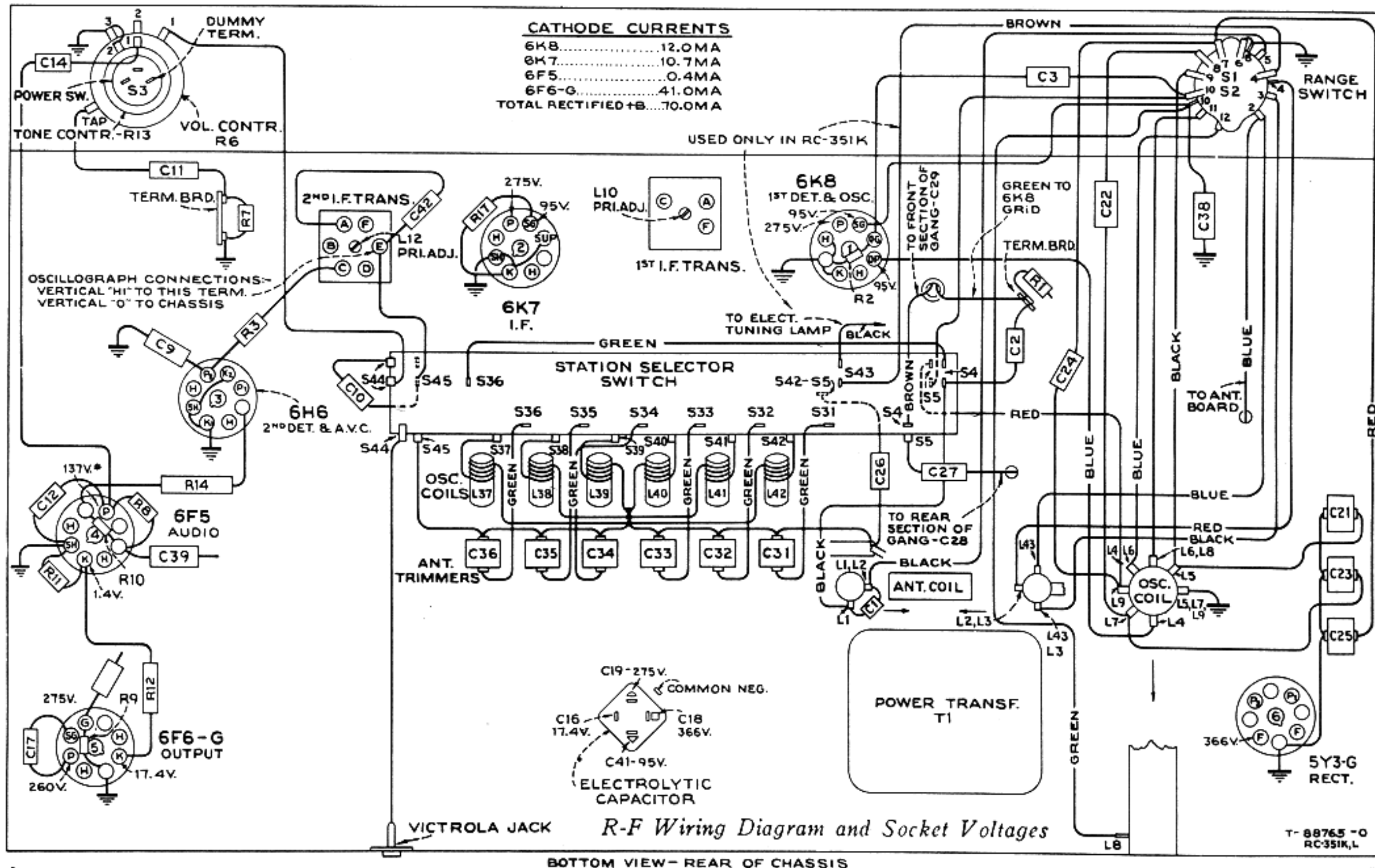
Model 96K6
6 Tubes, 12-in. Speaker

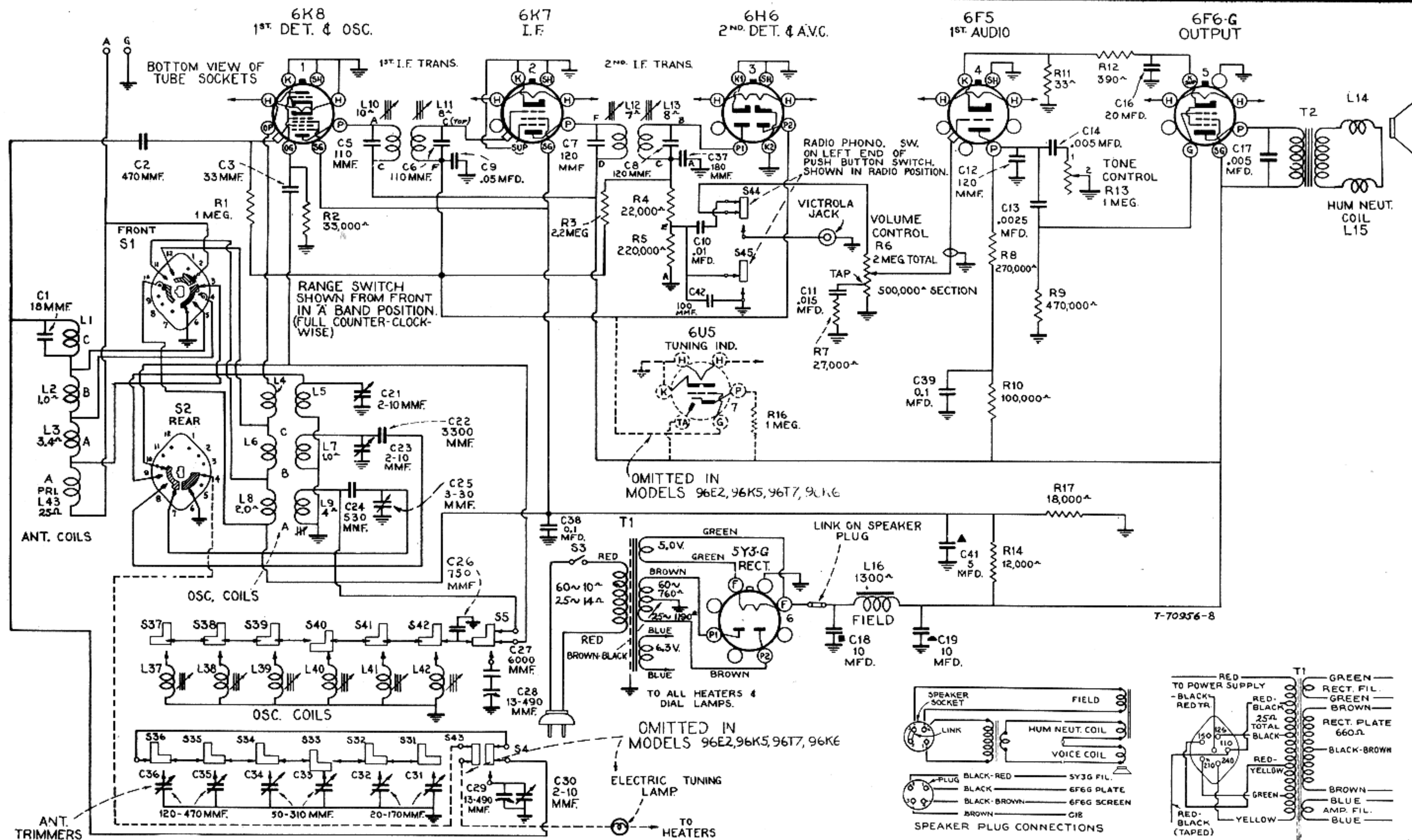


DRUM SHOWN WITH GANG AT MAXIMUM CAPACITY

VOLTAGES SHOULD
HOLD WITHIN $\pm 20\%$
WITH 117 V. AC. SUPPLY.

* MEASURED WITH
CHANALYST OR
VOLTOHMYST.





Schematic Circuit Diagram

Precautionary Lead Dress.—

1. Dress power-switch leads against left apron to prevent hum pickup.
2. Dress R1 away from front of chassis.
3. Electric-tuning lamp leads must be dressed in front of range switch.

4. Dress lead from L5 to range switch away from other leads.
5. Dress leads away from antenna coil.
6. Dress other parts and leads away from R14, as it becomes heated.

Above — Connections and Colors of Loudspeaker and Cable.

Above — Universal Power Transformer Connections. (110-volt supply for a Victrola Attachment may be obtained by connecting the motor to the red and the red-black leads.)

96E2, 96K5, 96K6, 96T7, 97K2, 97T2

REPLACEMENT PARTS

Insist on genuine factory-tested parts, which are readily identified and may be purchased from authorized dealers.

STOCK No.	DESCRIPTION	STOCK No.	DESCRIPTION
CHASSIS ASSEMBLIES			
14517	Board—Antenna ground terminal board.....	32669	Switch—Range switch (S1, S2).....
30752	Bracket—Magic Eye bracket and holder—Models 97T2 and 97K2.....	31370	Switch—Station selector push-button switch (S4, S5, S31, S32, S33, S34, S35, S36, S37, S38, S39, S40, S41, S42, S43, S44, S45).....
32670	Bracket—Dial color plate and lamp brackets.....	14376	Transformer—First i-f transformer (L10, L11, C5, C6).....
32684	Cable—Indicator drive cable.....	14283	Transformer—Second i-f transformer (L12, L13, C7, C8, C37, R4, R5).....
30766	Cap—Magic Eye cap.....	31445	Transformer—Power transformer 100-120 volts, 25-60 cycle (T1).....
12110	Cap—Tube shield cap.....	31380	Transformer—Power transformer 100-120 volts, 50-60 cycle (T1).....
31400	Capacitor—Triple adjustable trimmer two sections 2-10 mmfd., one section 3-30 mmfd. (C21, C23, C25).....	31446	Transformer—Power transformer 100-130, 140-160, 200-250 volts, 50-60 cycle (T1).....
12722	Capacitor—18 mmfd. (C1).....	SPEAKER ASSEMBLIES (84308-4) Model 96T7	
32486	Capacitor—Antenna trimmer capacitor bank. (C31, C32, C33, C34, C35, C36).....	32918	Cone and Voice Coil assembly complete with metal housing.....
12948	Capacitor—33 mmfd. (C3).....	32919	Field Coil Complete.....
12720	Capacitor—100 mmfd. (C42).....	32920	Output Transformer.....
14262	Capacitor—109 mmfd. (C5, C6).....	31302	Plug—4-contact male for speaker.....
12724	Capacitor—120 mmfd. (C12).....	SPEAKER ASSEMBLIES (84308-1) Models 96T7 and 97T2	
12404	Capacitor—120 mmfd. (C7, C8).....	31443	Cone—Speaker cone and voice coil (L14).....
14712	Capacitor—180 mmfd. (C37).....	31442	Speaker—Complete.....
30433	Capacitor—470 mmfd. (C2).....	31444	Transformer—Output transformer (T2).....
32492	Capacitor—530 mmfd. (C24).....	SPEAKER ASSEMBLIES (RL-79-1) Model 97T2	
31435	Capacitor—750 mmfd. (C26).....	32907	Cap—Cone center dust cap.....
31403	Capacitor—3300 mmfd. (C22).....	32908	Coil—Hum neutralizing coil.....
31405	Capacitor—6000 mmfd. (C27).....	33077	Coil—Speaker field coil.....
5107	Capacitor—.0025 mfd. (C13).....	32934	Cone—Cone and voice coil assembly.....
4838	Capacitor—.005 mfd. (C14, C17).....	31302	Plug—4-prong male speaker plug.....
14393	Capacitor—.01 mfd. (C10).....	33078	Speaker—Speaker complete.....
4839	Capacitor—.01 mfd. (C38, C39).....	32905	Transformer—Output transformer (T2).....
11315	Capacitor—.015 mfd. (C11).....	SPEAKER ASSEMBLIES (RL-63H-3) Model 96E2	
4886	Capacitor—.05 mfd. (C9).....	31825	Cap—Speaker cone center dust cap.....
32485	Capacitor—Comprising two 10 mfd., one 20 mfd., and one 5 mfd. sections (C16, C18, C19, C41).....	11469	Coil—Hum neutralizing coil (L17).....
31382	Clip—Oscillator coil and core mounting clip.....	12012	Coil—Speaker field coil (L18).....
32493	Coil—Antenna coil—A, B, and C bands (L1, L2, L3, L43).....	31310	Cone—Speaker cone and voice coil (L16).....
31951	Coil—Oscillator coil—A, B, and C bands (L4, L5, L6, L7, L8, L9).....	31302	Plug—4-contact male plug for speaker.....
31383	Coil—Oscillator coil—A band (L41, L42).....	31592	Speaker—Speaker complete.....
32487	Coil—Oscillator coil—A band (L39, L40).....	14358	Screw—Screw, washer, and lockwasher to hold core in yoke.....
31385	Coil—Oscillator coil—A band (L37, L38).....	14355	Transformer—Output transformer (T2).....
31369	Condenser—2-gang variable tuning condenser (C28, C29, C30).....	14357	Washer—Spring washer to hold field coil.....
32688	Control—Volume control, tone control, and on-off switch (R6, R13, S3).....	MISCELLANEOUS ASSEMBLIES	
32634	Cord—Indicator pointer and variable condenser drum drive cord.....	31397	Button—Push button.....
30905	Core—Adjustable core for i-f transformer.....	31456	Cover—8-protective covers for push button markers.....
31386	Core—Adjustable core and stud for oscillator coil Stock Nos. 31383 and 31385.....	32673	Dial—Dial scale and crystal (glass).....
12800	Core—Adjustable core and stud for oscillator coil Stock No. 32487.....	32672	Escutcheon—Dial escutcheon and dial—less buttons—Models 96K5, 96E2, and 96T7.....
31372	Drum—Variable condenser drive cord drum and calibrator dial.....	32674	Escutcheon—Dial escutcheon and dial—less buttons—Models 97K2 and 97T2.....
32552	Indicator—Dial pointer and clip.....	31355	Knob—Range switch knob.....
11891	Lamp—Dial or Electric Tuning indicator lamp.....	14359	Knob—Station selector knob.....
5040	Plug—4-contact female plug for speaker cable.....	31391	Knob—Tone control knob.....
31373	Pulley—Indicator drive cord pulley.....	30773	Knob—Volume control knob.....
14671	Resistor—33 ohms, 1/2 watt (R11).....	31589	Marker—1 set station call letter markers.....
31388	Resistor—390 ohms, 1 watt (R12).....	31458	Marker—"Dial Tuning" push button marker.....
31389	Resistor—12,000 ohms, wire wound, 5 watts (R14).....	31457	Marker—"Victrola" push button marker.....
30151	Resistor—18,000 ohms, 1 watt (R17).....	11210	Screw—Chassis mounting screws, washers and lockwashers. Models 96K5, 97K2 and 96E2 (3 required).....
14284	Resistor—22,000 ohms, 1/10 watt (R4).....	31390	Screw—Chassis mounting screws, washers and lockwashers Models 96T7 and 97T2. (Sufficient for one chassis).....
12738	Resistor—27,000 ohms, 1/2 watt (R7).....	4982	Spring—Retaining spring for knob Stock No. 14359.....
12454	Resistor—33,000 ohms, 1/2 watt (R2).....	14270	Spring—Retaining spring for knob Stock Nos. 30773 and 31355.....
14560	Resistor—100,000 ohms, 1/2 watt (R10).....	30330	Spring—Retaining spring for knob Stock No. 31391.....
11398	Resistor—220,000 ohms, 1/10 watt (R5).....		
12199	Resistor—270,000 ohms, 1/2 watt (R8).....		
12285	Resistor—470,000 ohms, 1/2 watt (R9).....		
12013	Resistor—1 meg., 1/10 watt (R16) Models 97T2 and 97K2.....		
13730	Resistor—1 meg., 1/2 watt (R1).....		
12679	Resistor—2.2 meg., 1/2 watt (R3).....		
14343	Retainer—Retaining spring for station selector knob shaft.....		
14887	Retainer—Drive cord pulley retainer.....		
4669	Screw—No. 8-32 square head set screw for drum Stock No. 31372.....		
32671	Shaft—Station selector knob shaft and pulley.....		
31199	Shield—Electric tuning lamp shield.....		
31364	Socket—Dial lamp socket.....		
31365	Socket—"Electric Tuning" indicator lamp insulated socket Model 97T2 and 97K2.....		
13871	Socket—Magic Eye socket (Models 97T2 and 97K2).....		
31251	Socket—Octal base tube socket.....		
14278	Socket—Pickup socket.....		
31418	Spring—Indicator, or drum drive cord tension spring.....		