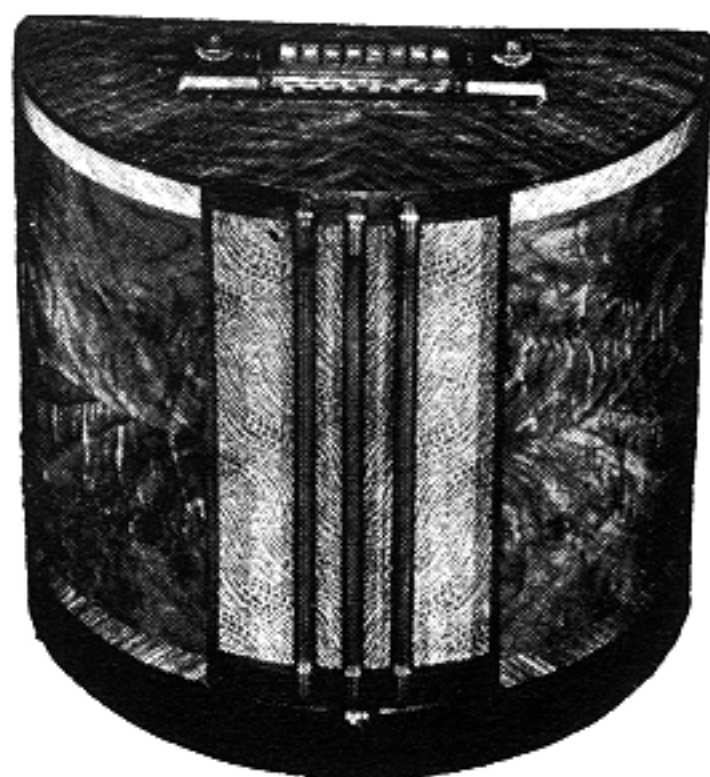
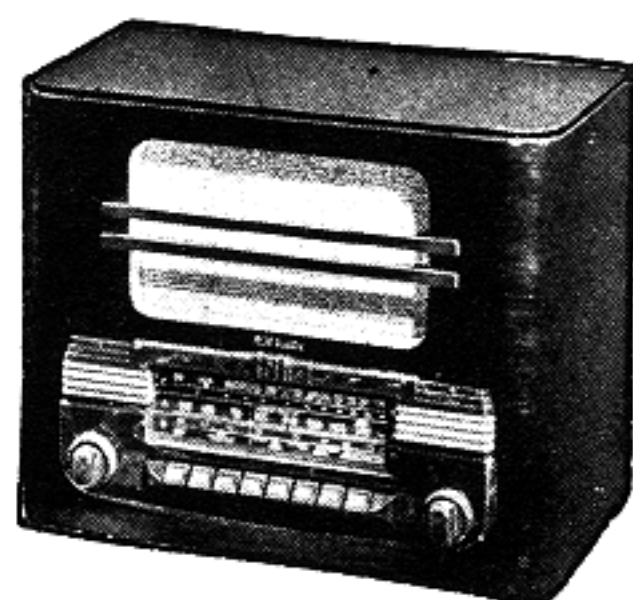


**MODELS 96E2, 96K5, 96K6, 96T7, 97K2, and 97T2**

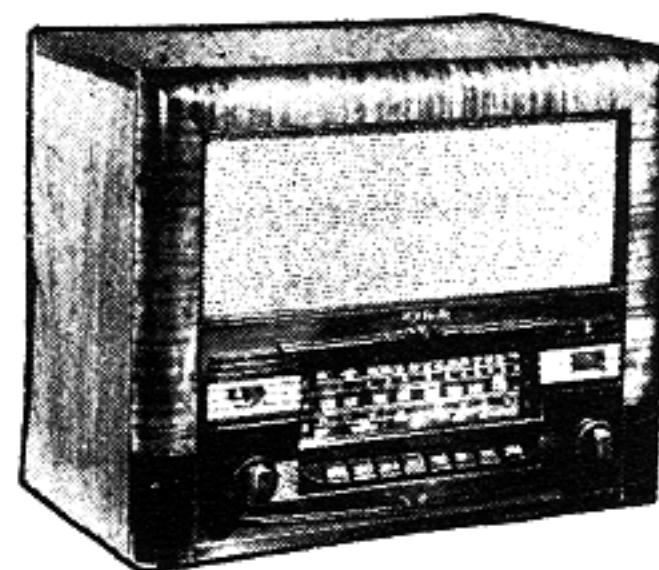
Chassis No. RC-351L RC-351L RC-351L RC-351L RC-351K RC-351K

**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

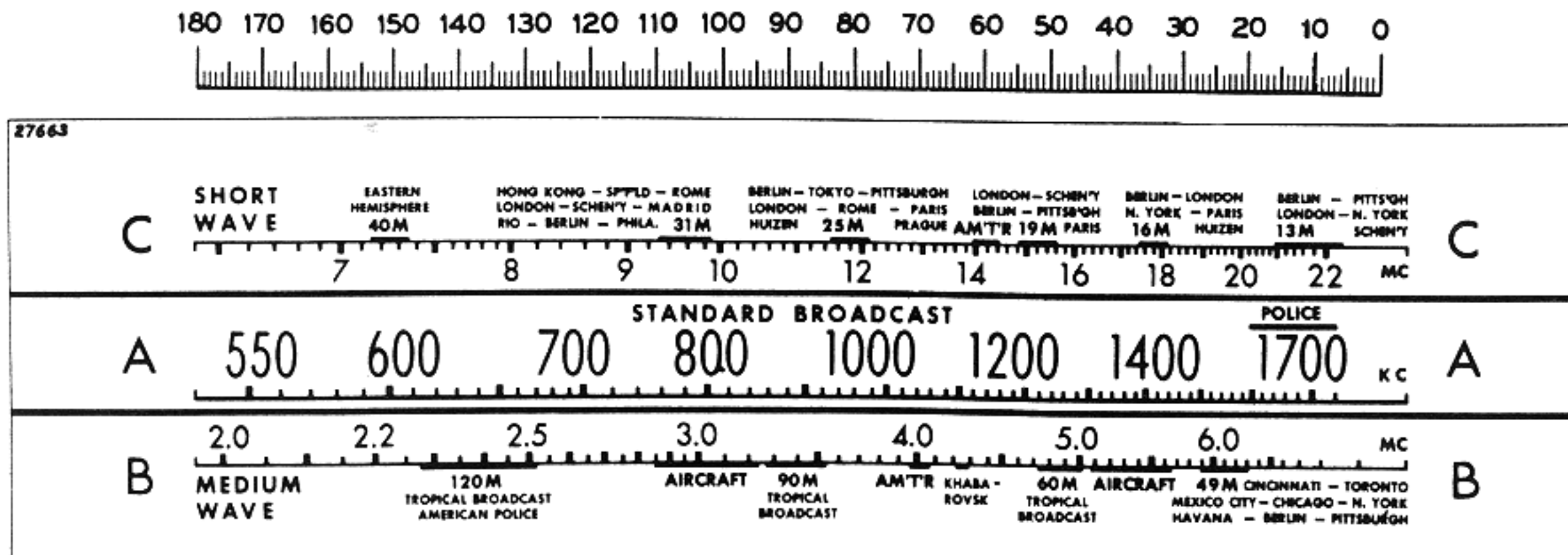
Undistorted..... 2.0 watts..... 2.5 watts

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

**LOUDSPEAKER**

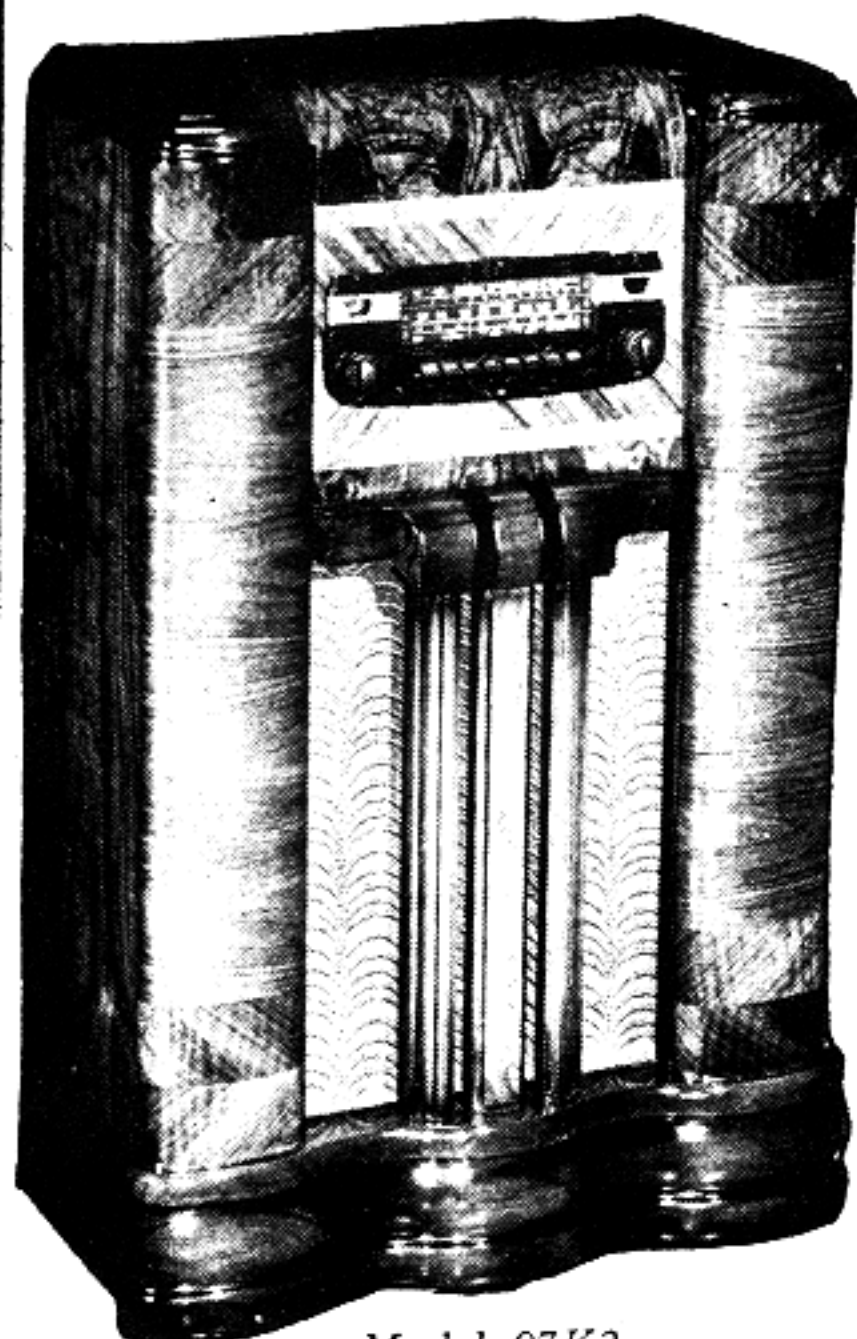
Type..... Electrodynamic

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

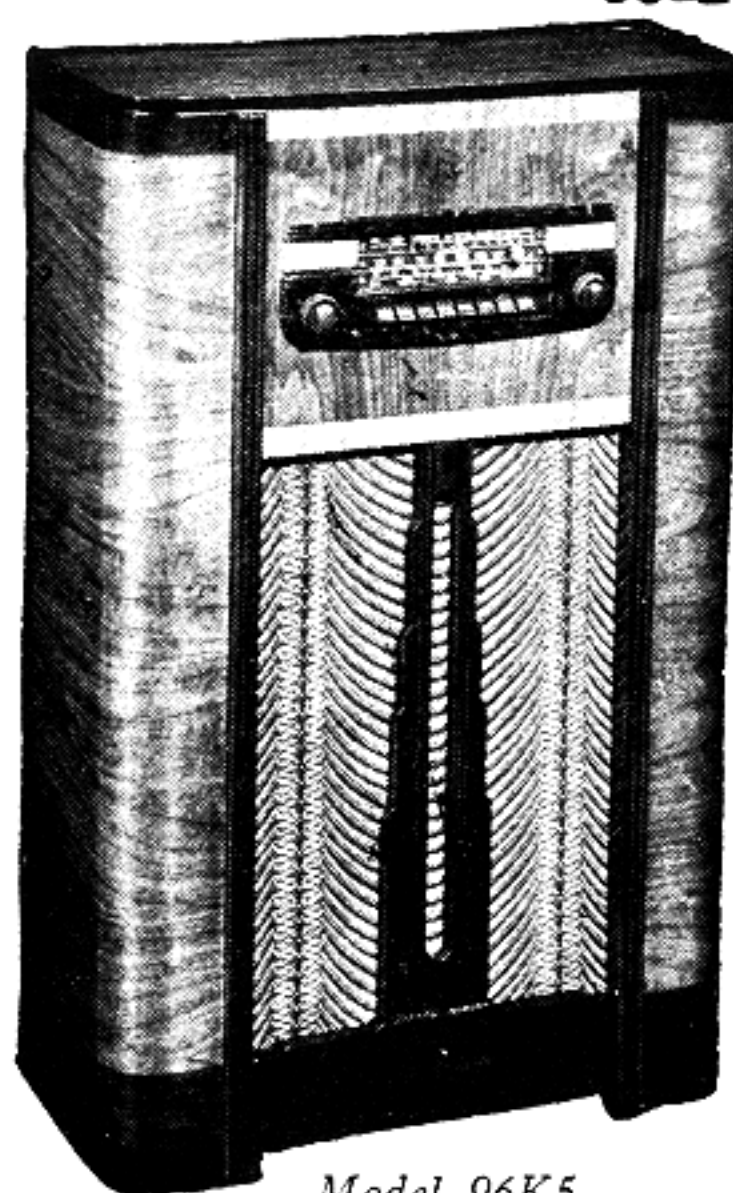


Reduced Reproduction of Receiver Dial, and Corresponding 0-180° Calibration Scales

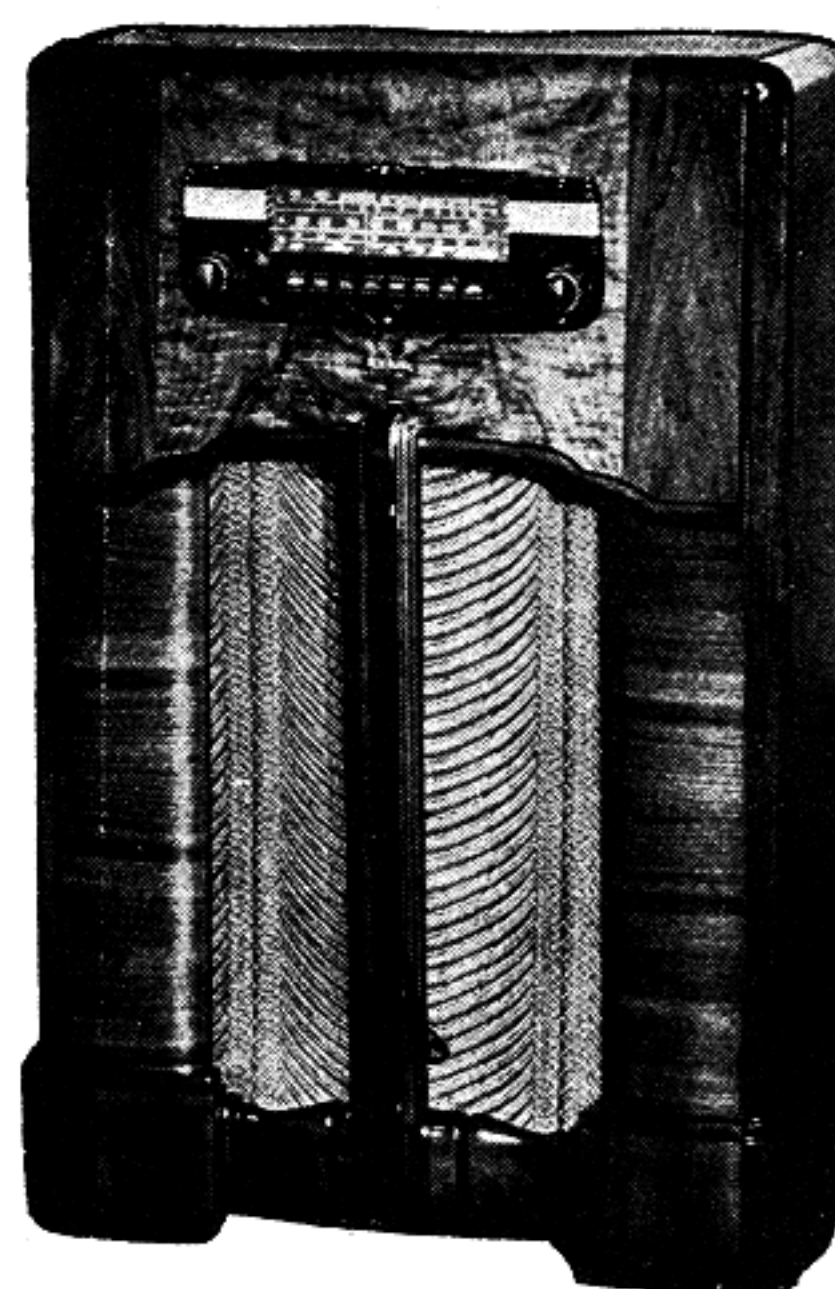




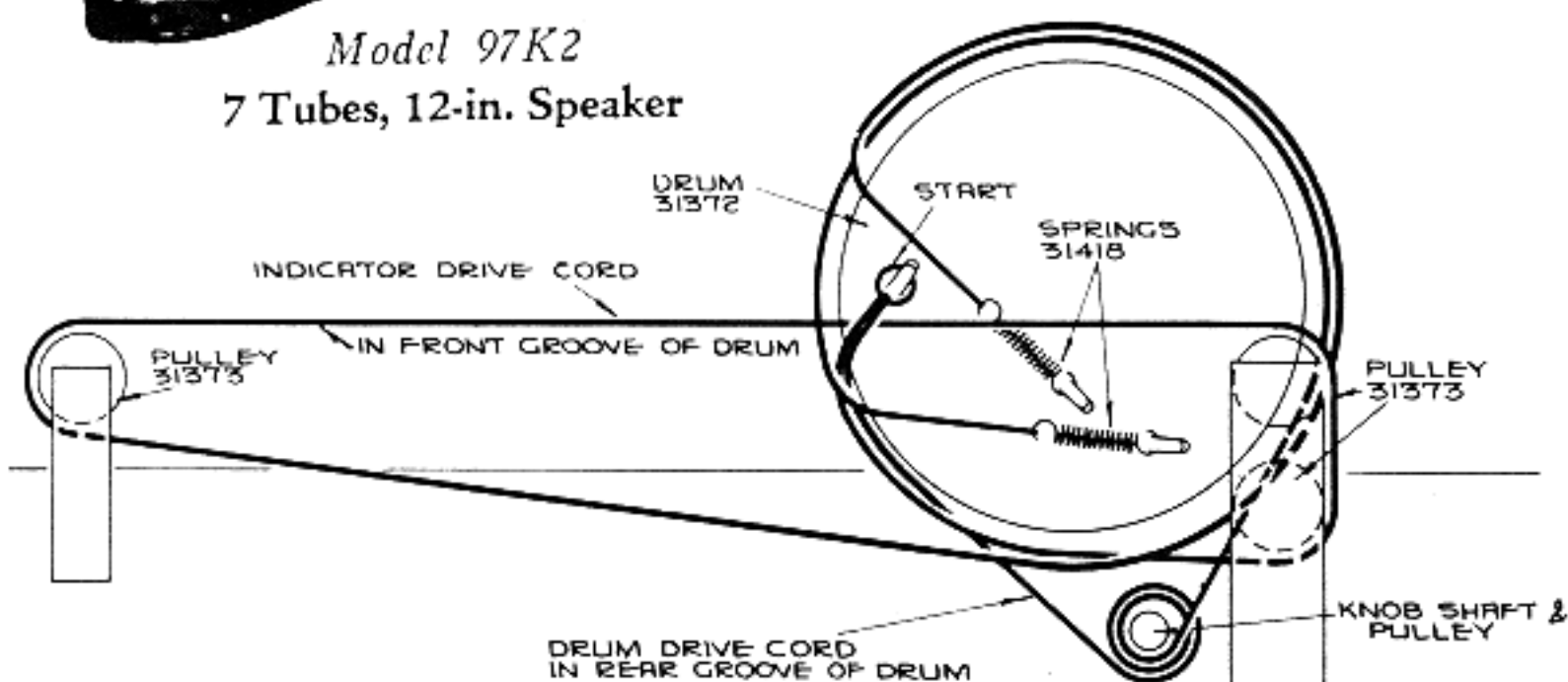
*Model 97K2*  
7 Tubes, 12-in. Speaker



*Model 96K5*  
6 Tubes, 12-in. Speaker



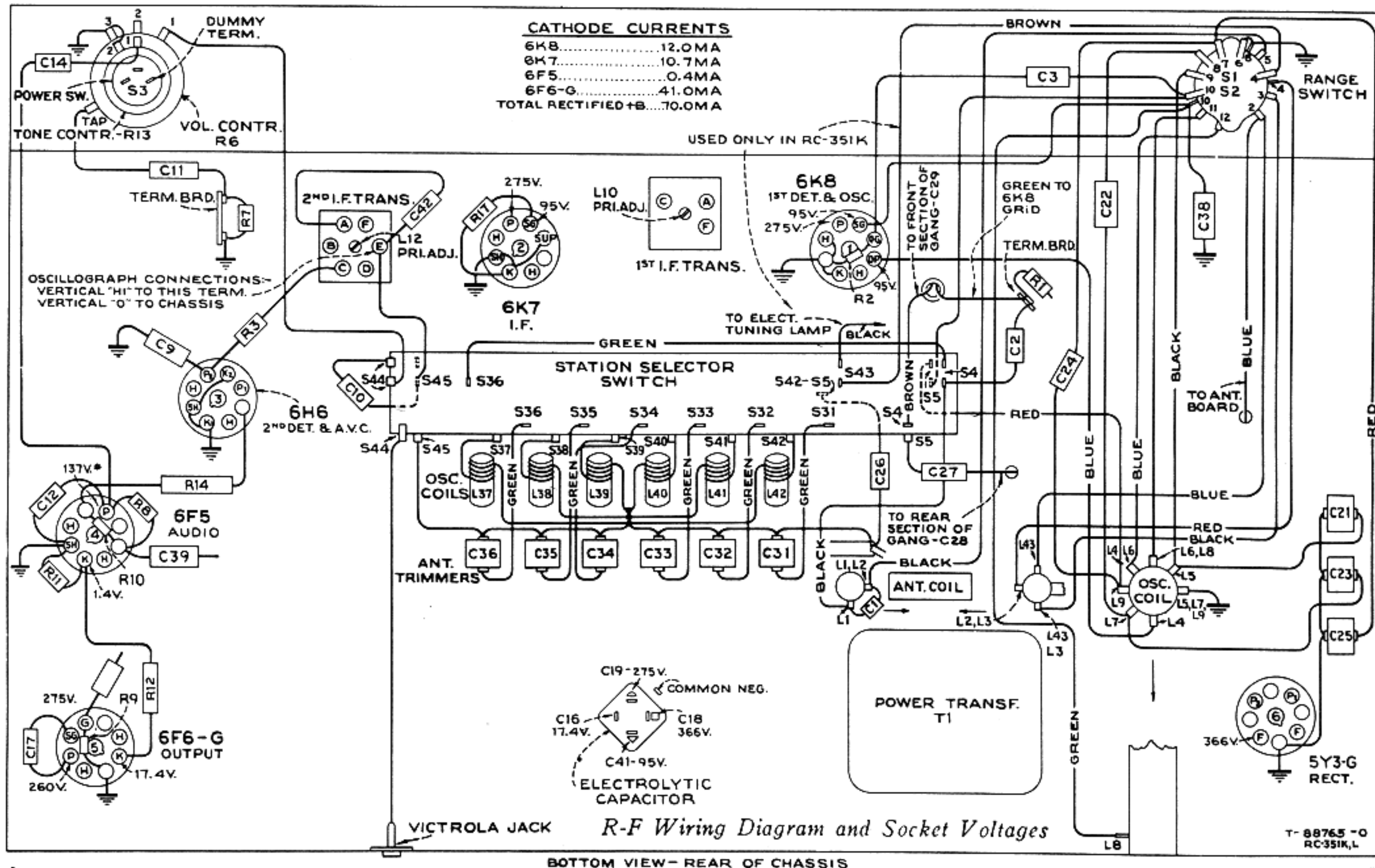
*Model 96K6*  
**6 Tubes, 12-in. Speaker**



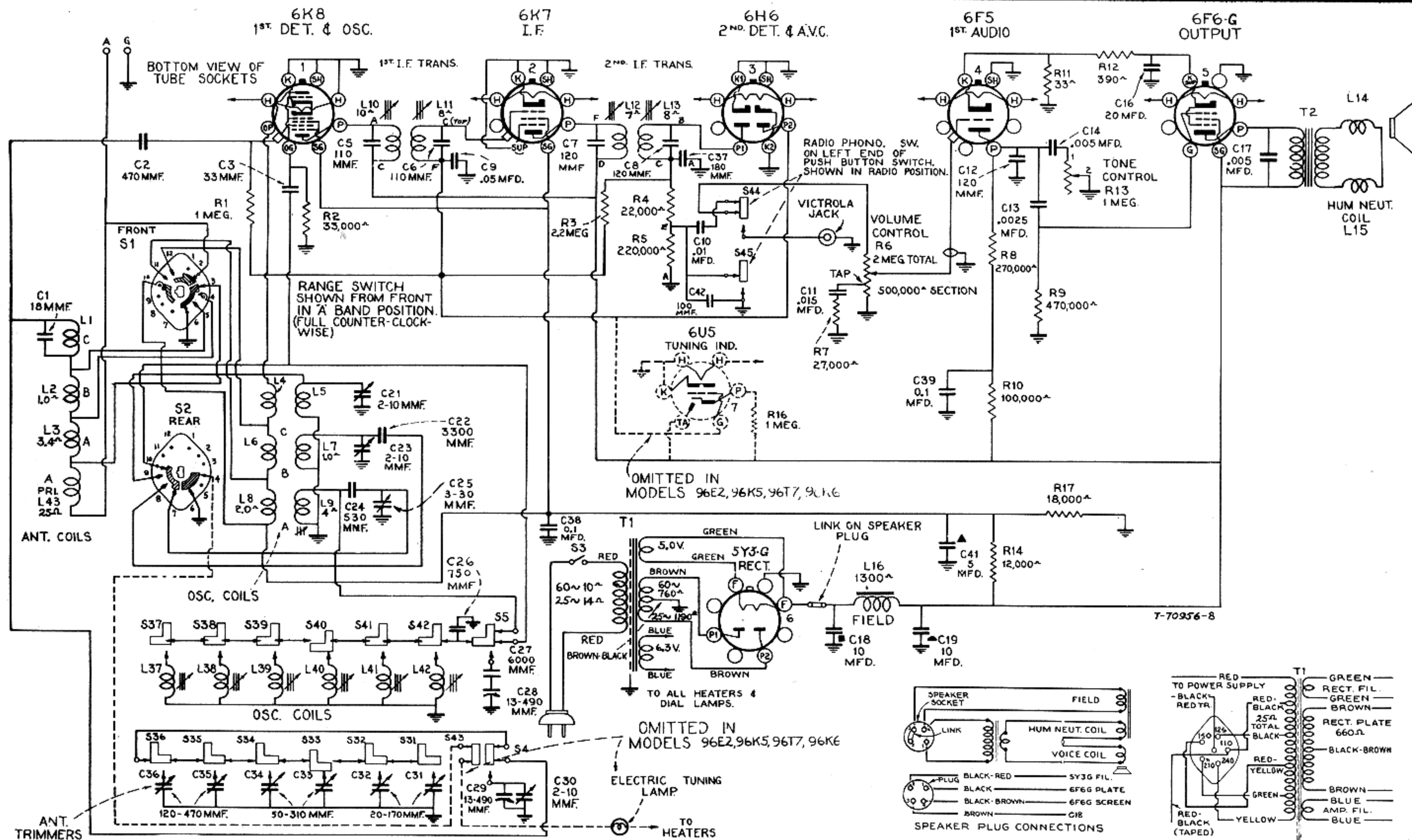
DRUM SHOWN WITH GANG AT MAXIMUM CAPACITY

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                                                                                                                         |
|---------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>CHASSIS ASSEMBLIES</b> |                                                                                                          |                                                              |                                                                                                                                     |
| 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).....                                                                             | <b>SPEAKER ASSEMBLIES (84308-4)</b><br>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).....                                                                           | <b>SPEAKER ASSEMBLIES (84308-1)</b><br>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).....                                                                           | <b>SPEAKER ASSEMBLIES (RL-79-1)</b><br>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).....                                                                           | <b>SPEAKER ASSEMBLIES (RL-63H-3)</b><br>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).....                                                              | 31824                                                        | Speaker complete.....                                                                                                               |
| 32487                     | Coil—Oscillator coil—A band (L39, L40).....                                                              | 14355                                                        | Transformer—Output transformer (T2).....                                                                                            |
| 31385                     | Coil—Oscillator coil—A band (L37, L38).....                                                              | <b>SPEAKER ASSEMBLIES (RL-70H-1)</b><br>Models 96K5 and 97K2 |                                                                                                                                     |
| 31369                     | Condenser—2-gang variable tuning condenser (C28, C29, C30).....                                          | 31825                                                        | Cap—Dust cap for cone center.....                                                                                                   |
| 32688                     | Control—Volume control, tone control, and on-off switch (R6, R13, S3).....                               | 12012                                                        | Coil—Field coil (L16).....                                                                                                          |
| 32634                     | Cord—Indicator pointer and variable condenser drum drive cord.....                                       | 11469                                                        | Coil—Hum neutralizing coil (L15).....                                                                                               |
| 30905                     | Core—Adjustable core for i-f transformer.....                                                            | 31275                                                        | Cone—Speaker cone and voice coil (L14).....                                                                                         |
| 31386                     | Core—Adjustable core and stud for oscillator coil Stock Nos. 31383 and 31385.....                        | 31302                                                        | Plug—4-contact male plug.....                                                                                                       |
| 12800                     | Core—Adjustable core and stud for oscillator coil Stock No. 32487.....                                   | 31592                                                        | Speaker—Speaker complete.....                                                                                                       |
| 31372                     | Drum—Variable condenser drive cord drum and calibrator dial.....                                         | 14358                                                        | Screw—Screw, washer, and lockwasher to hold core in yoke.....                                                                       |
| 32552                     | Indicator—Dial pointer and clip.....                                                                     | 14355                                                        | Transformer—Output transformer (T2).....                                                                                            |
| 11891                     | Lamp—Dial or Electric Tuning indicator lamp.....                                                         | 14357                                                        | Washer—Spring washer to hold field coil.....                                                                                        |
| 5040                      | Plug—4-contact female plug for speaker cable.....                                                        | <b>MISCELLANEOUS ASSEMBLIES</b>                              |                                                                                                                                     |
| 31373                     | Pulley—Indicator drive cord pulley.....                                                                  | 31397                                                        | Button—Push button.....                                                                                                             |
| 14671                     | Resistor—33 ohms, 1/2 watt (R11).....                                                                    | 31456                                                        | Cover—8-protective covers for push button markers.....                                                                              |
| 31388                     | Resistor—390 ohms, 1 watt (R12).....                                                                     | 32673                                                        | Dial—Dial scale and crystal (glass).....                                                                                            |
| 31389                     | Resistor—12,000 ohms, wire wound, 5 watts (R14).....                                                     | 32672                                                        | Escutcheon—Dial escutcheon and dial—less buttons—Models 96K5, 96E2, and 96T7.....                                                   |
| 30151                     | Resistor—18,000 ohms, 1 watt (R17).....                                                                  | 32674                                                        | Escutcheon—Dial escutcheon and dial—less buttons—Models 97K2 and 97T2.....                                                          |
| 14284                     | Resistor—22,000 ohms, 1/10 watt (R4).....                                                                | 31355                                                        | Knob—Range switch knob.....                                                                                                         |
| 12738                     | Resistor—27,000 ohms, 1/2 watt (R7).....                                                                 | 14359                                                        | Knob—Station selector knob.....                                                                                                     |
| 12454                     | Resistor—33,000 ohms, 1/2 watt (R2).....                                                                 | 31391                                                        | Knob—Tone control knob.....                                                                                                         |
| 14560                     | Resistor—100,000 ohms, 1/2 watt (R10).....                                                               | 30773                                                        | Knob—Volume control knob.....                                                                                                       |
| 11398                     | Resistor—220,000 ohms, 1/10 watt (R5).....                                                               | 31589                                                        | Marker—1 set station call letter markers.....                                                                                       |
| 12199                     | Resistor—270,000 ohms, 1/2 watt (R8).....                                                                | 31458                                                        | Marker—"Dial Tuning" push button marker.....                                                                                        |
| 12285                     | Resistor—470,000 ohms, 1/2 watt (R9).....                                                                | 31457                                                        | Marker—"Victrola" push button marker.....                                                                                           |
| 12013                     | Resistor—1 meg., 1/10 watt (R16) Models 97T2 and 97K2.....                                               | 11210                                                        | Screw—Chassis mounting screws, washers and lockwashers. Models 96K5, 97K2 and 96E2 (3 required).....                                |
| 13730                     | Resistor—1 meg., 1/2 watt (R1).....                                                                      | 31390                                                        | Screw—Chassis mounting screws, washers and lockwashers Models 96T7 and 97T2. (Sufficient for one chassis).....                      |
| 12679                     | Resistor—2.2 meg., 1/2 watt (R3).....                                                                    | 4982                                                         | Spring—Retaining spring for knob Stock No. 14359.....                                                                               |
| 14343                     | Retainer—Retaining spring for station selector knob shaft.....                                           | 14270                                                        | Spring—Retaining spring for knob Stock Nos. 30773 and 31355.....                                                                    |
| 14887                     | Retainer—Drive cord pulley retainer.....                                                                 | 30330                                                        | Spring—Retaining spring for knob Stock No. 31391.....                                                                               |
| 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.....                                                 |                                                              |                                                                                                                                     |