

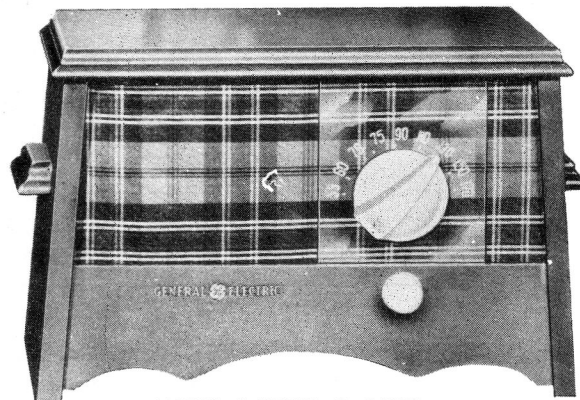
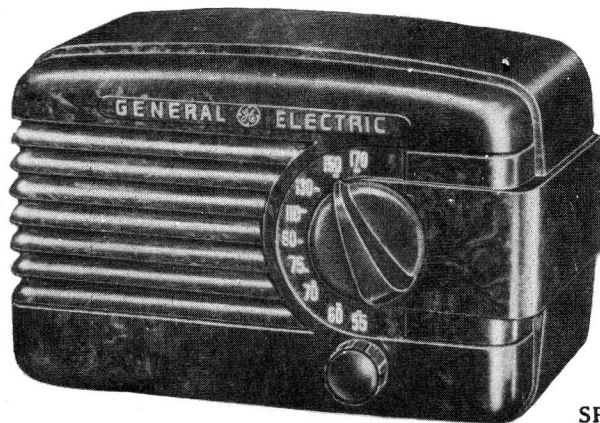
C-751  
C-752  
C-752L

## SERVICE INSTRUCTIONS

# GENERAL ELECTRIC

## MODELS C-751, C-752, C-752L

### 5-Tube, Single Band, A-C/D-C Radio Receivers



#### SPECIFICATIONS

MODEL C-752(T) & C-752L

| MODEL C-751        |           |                |             |
|--------------------|-----------|----------------|-------------|
| CABINET DIMENSIONS | C-751     | C-752*(T or H) | C-752L      |
| Material .....     | Plastic   | Wood           | Wood        |
| Height .....       | 6 inches  | 7 1/2 in.      | 7 1/2 in.   |
| Width .....        | 9 3/4 in. | 11 in.         | 11 in.      |
| Depth .....        | 5 1/2 in. | 5 3/4 in.      | 5 15/16 in. |

\*T - Tartan Grille Cloth H - Homespun Grille Cloth

TUNING CONTROL DRIVE RATIO ..... 1:1

#### ELECTRICAL SPECIFICATIONS

Voltage ..... 105-125 volts a.c. or d.c.  
Frequency on a.c. .... 25-60 cycles  
Wattage ..... 25 watts

TUNING FREQUENCY RANGE ..... 540-1720 Kc.

INTERMEDIATE FREQUENCY ..... 460 Kc.

#### LOUDSPEAKER

Type ..... Alnico P.M.  
Outside Cone Diameter ..... 4 inches  
Voice Coil Impedance ..... 400 C.P.S.-3.2 ohms

#### TUBE COMPLEMENT

Converter Oscillator ..... 12SA7  
I.F. Amplifier ..... 12SK7  
Detector, A.V.C., 1st Audio ..... 12SQ7  
Output ..... 50L6GT  
Rectifier ..... 35Z5GT

#### ALIGNMENT PROCEDURE

##### CAUTION:

Since one side of the a.c. line is connected direct to the chassis, care should be taken to avoid shock when servicing this receiver.

To avoid possible damage to a.c. operated test instruments an isolating transformer should be used between the power supply and the receiver.

Connect an output meter across the voice coil of the loud speaker.

Advance the receiver volume control to maximum. Keep signal generator output as low as possible to give a readable indication on the output meter.

#### ALIGNMENT CHART

| Step | Connect Test Oscillator<br>Low Side to Chassis<br>High Side To         | Tune Test Oscillator<br>To | Tune Radio<br>To               | Adjust for<br>Maximum Peak Output           |
|------|------------------------------------------------------------------------|----------------------------|--------------------------------|---------------------------------------------|
| 1    | 12SK7 Grid<br>Through<br>0.05 mfd. Capacitor                           | 460 kc.                    | Gang Condenser<br>fully meshed | 2nd I.F. Trimmers<br>C7 and C6              |
| 2    | Converter Grid<br>Through<br>0.05 mfd. Capacitor                       | 460 kc.                    | Gang Condenser<br>fully meshed | 1st I.F. Trimmers<br>C5 and C4              |
| 3    | Converter Grid<br>Through<br>0.05 mfd. Capacitor                       | 460 kc.                    | Gang Condenser<br>fully meshed | 2nd & 1st I.F. Trim-<br>mers C7, C6, C5, C4 |
| 4    | *A-Hank Antenna Through 100<br>mfd. Capacitor<br>*B- ** Radiation Loop | 1720 kc.                   | Gang Condenser<br>fully open   | Osc. Trimmer C3C                            |
|      | *A-Hand Antenna Through 100<br>mfd. Capacitor<br>*B- ** Radiation Loop | 1500 kc.                   | 1500 kc.                       | Ant. Trimmer C3A                            |

\*A - C751, C752

B - C752L

\*\* - Radiation loop consists of two turns #18 wire in loop about 14 inches in diameter located 2 to 3 feet from loop of receiver. Do not change Relative positions of Radiation loop and Receiver loop during Alignment.

C-751  
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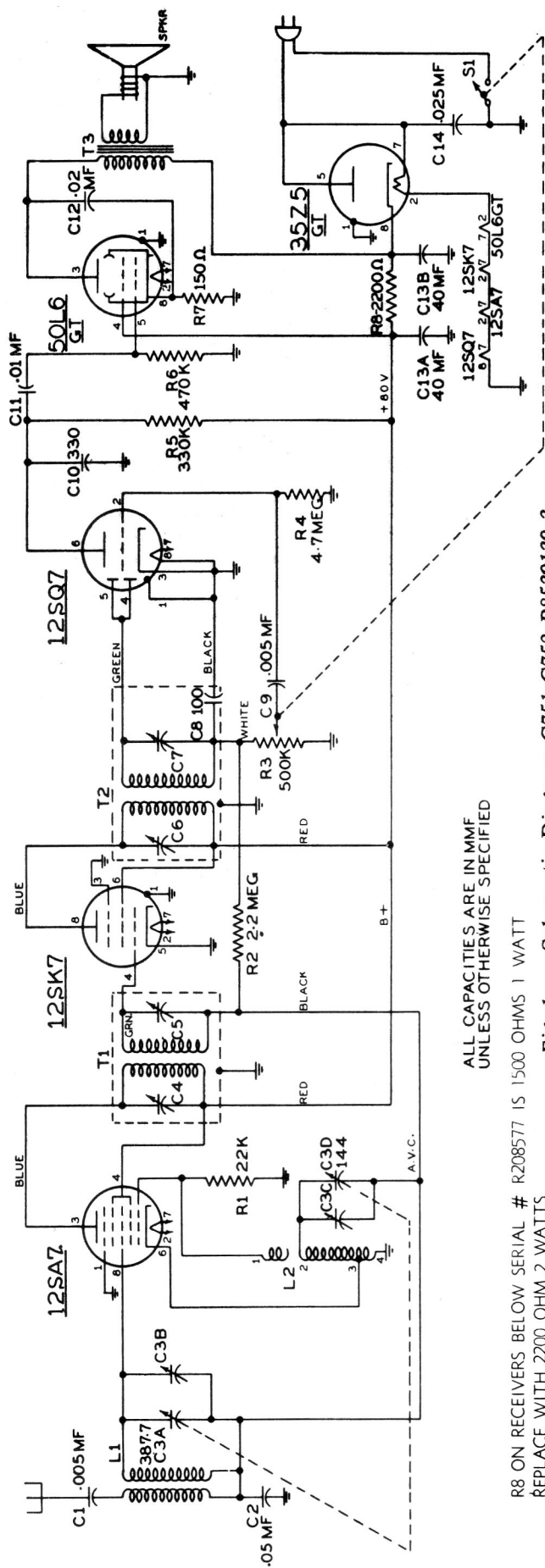


Fig. 1. — Schematic Diagram C751 C752 P8530130-3

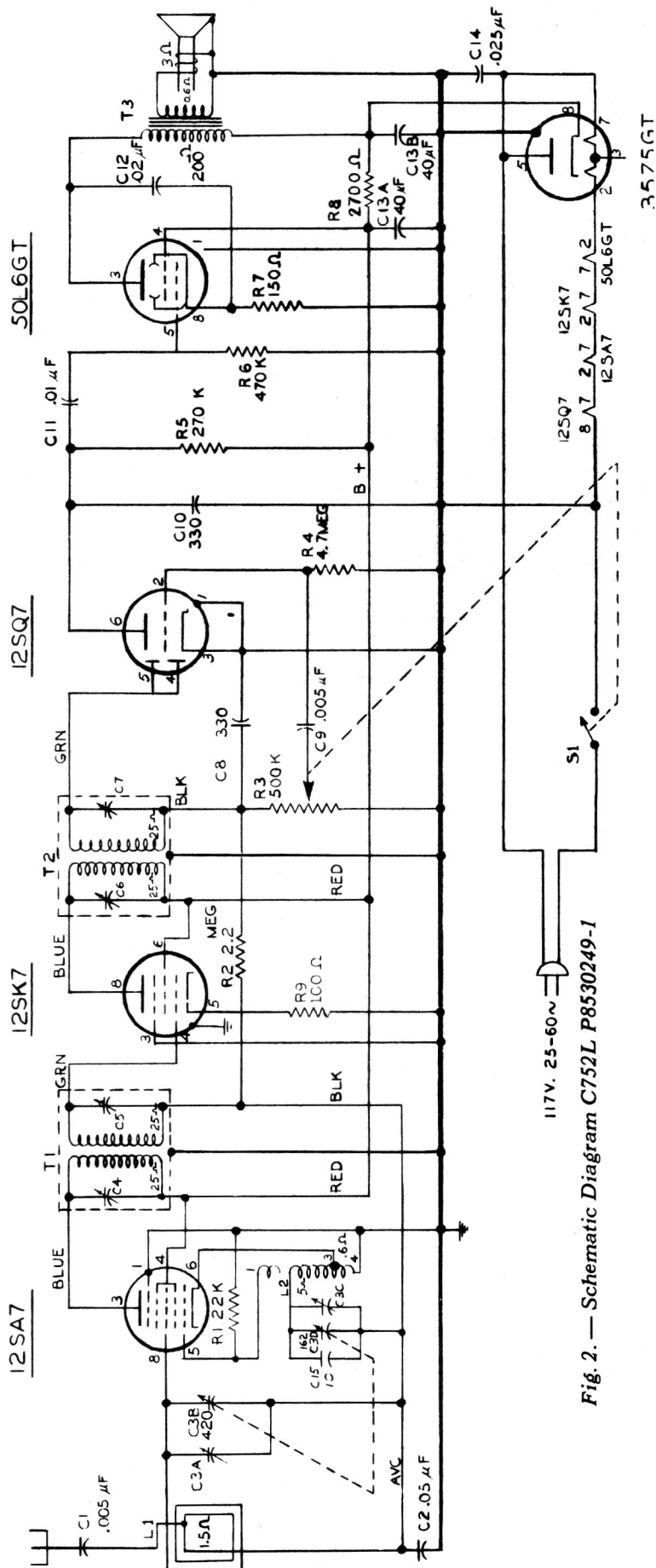
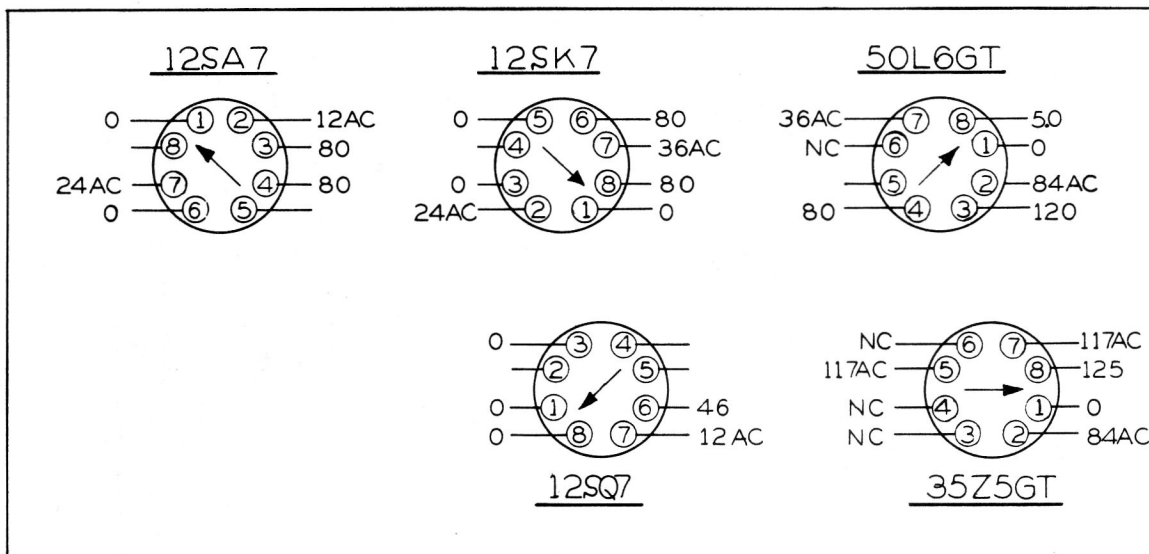


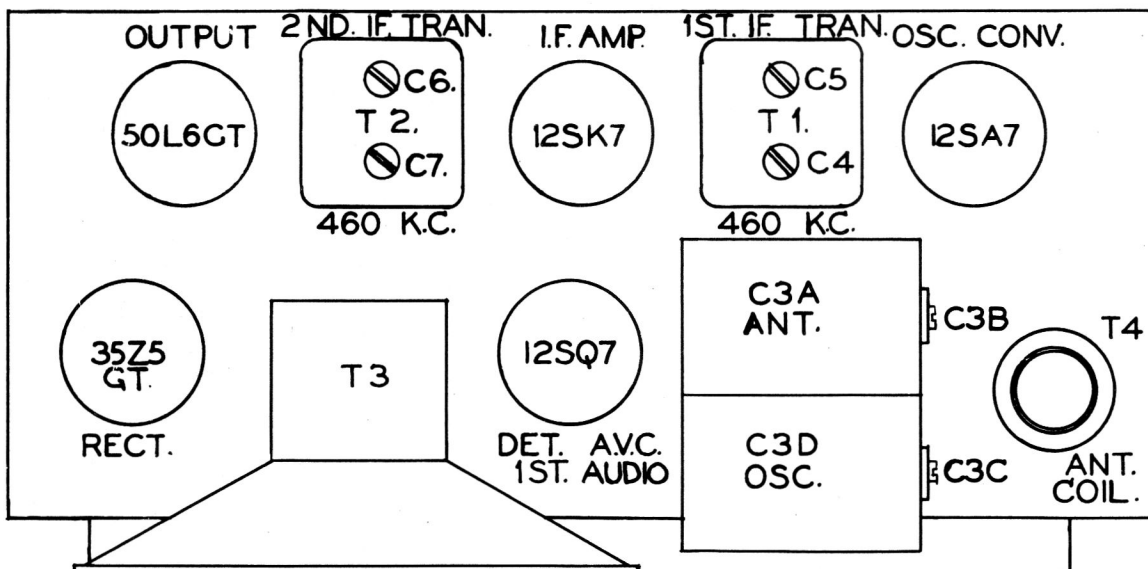
Fig. 2. — Schematic Diagram C752L P8530249-1

BOTTOM VIEW OF CHASSIS



-ALL VOLTAGES ARE MEASURED BETWEEN SOCKET TERMINALS AND CHASSIS WITH A LINE VOLTAGE OF 117 VOLTS, VOL. CONTROL IN MIN. POSITION AND NO SIGNAL INPUT. A 20000  $\Omega$ /VOLT METER IS USED TO MEASURE D.C. VOLTAGES & A 1000  $\Omega$ /VOLT METER FOR A.C.

*Fig. 3. Socket Voltage Diagram M8533964-0  
(For  $R_8$  2200 OHMS.)*



*Fig. 4. Tube & Trimmer Location M8533700-1*

*Note: On Model C752L T4 is Loop on Back Cover Instead of Antenna Coil as Indicated*

REPLACEMENT PARTS LIST  
Models C751, C752 and C752L

| Part No.       | Symbol | Description                             | Part No.            | Symbol | Description                              |
|----------------|--------|-----------------------------------------|---------------------|--------|------------------------------------------|
| Receiver Parts |        |                                         | Miscellaneous Parts |        |                                          |
| M8533690-1     | C3     | Capacitor - Tuning C751, C752 .....     | M8533816-2          |        | Cabinet Back - C751 .....                |
| M8533572       | C3     | " - Tuning C752L .....                  | K8531868-3          |        | " - Walnut (Plastic for C751) ....       |
| K8531607-4     | C13    | " - Electrolytic 40-40 Mfd.150V .....   | K8531868-5          |        | " - Pink (Plastic for C-751) .....       |
| M8533699-1     | L2     | Coil - Oscillator C751, C752 .....      | K8531868-4          |        | " - Ivory (Plastic for C751) .....       |
| M8533588       | L2     | " - Oscillator C752L .....              | K8531868-6          |        | " - Orchid (Plastic for C751) ....       |
| M8533675-2     | L1     | " - Antenna C751, C752 .....            | M8533696-1          |        | Knob - Tuning - Ivory C-751,C752,C752L   |
| P8534099-4     |        | Speaker .....                           | M8533784-2          |        | Cabinet Back - C-752 .....               |
| UCF62064       |        | Socket - Tube socket .....              | M8533934-3          |        | Cabinet Back & Loop assembly C752L ..... |
| P8534091-2     | T1     | Transformer - 1st I.F. C751, C752 ..... | M8533696-2          |        | Knob - Tuning - Maroon - C-751 .....     |
| P8530127-1     | T2     | " - 2nd I.F. C751, C752 .....           | P8530177            |        | Dial scale - C752, C752L .....           |
| P8534090-1     | T1     | " - 1st I.F. C752L .....                | M8533695-1          |        | Knob - Volume Control Ivory C-751,C-752  |
| M8533614-2     | T2     | " - 2nd I.F. C752L .....                | M8533695-2          |        | " - " - Maroon C-751 ....                |
| K8531926-1     | T3     | " - Output .....                        | M8533833-1          |        | Volume Control Knob - C752L .....        |
| K8531806-1     | R3,S1  | Volume Control and Switch - C751 .....  | V22J870             |        | Spring - Vol. Control knob Spring C751,  |
| M8533838-2     | R3,S1  | Volume Control and Switch - C752L ..... |                     |        | C752 .....                               |
| K8531806-2     | R3,S1  | " " " " - C752 .....                    | C751-125            |        | Screw for Tuning knob .....              |

Data subject to change without notice

NOTE: Always state Model No. of radio when ordering parts.

Small Capacitors and Resistors not listed above  
are readily available from your Local Radio Parts Jobber.