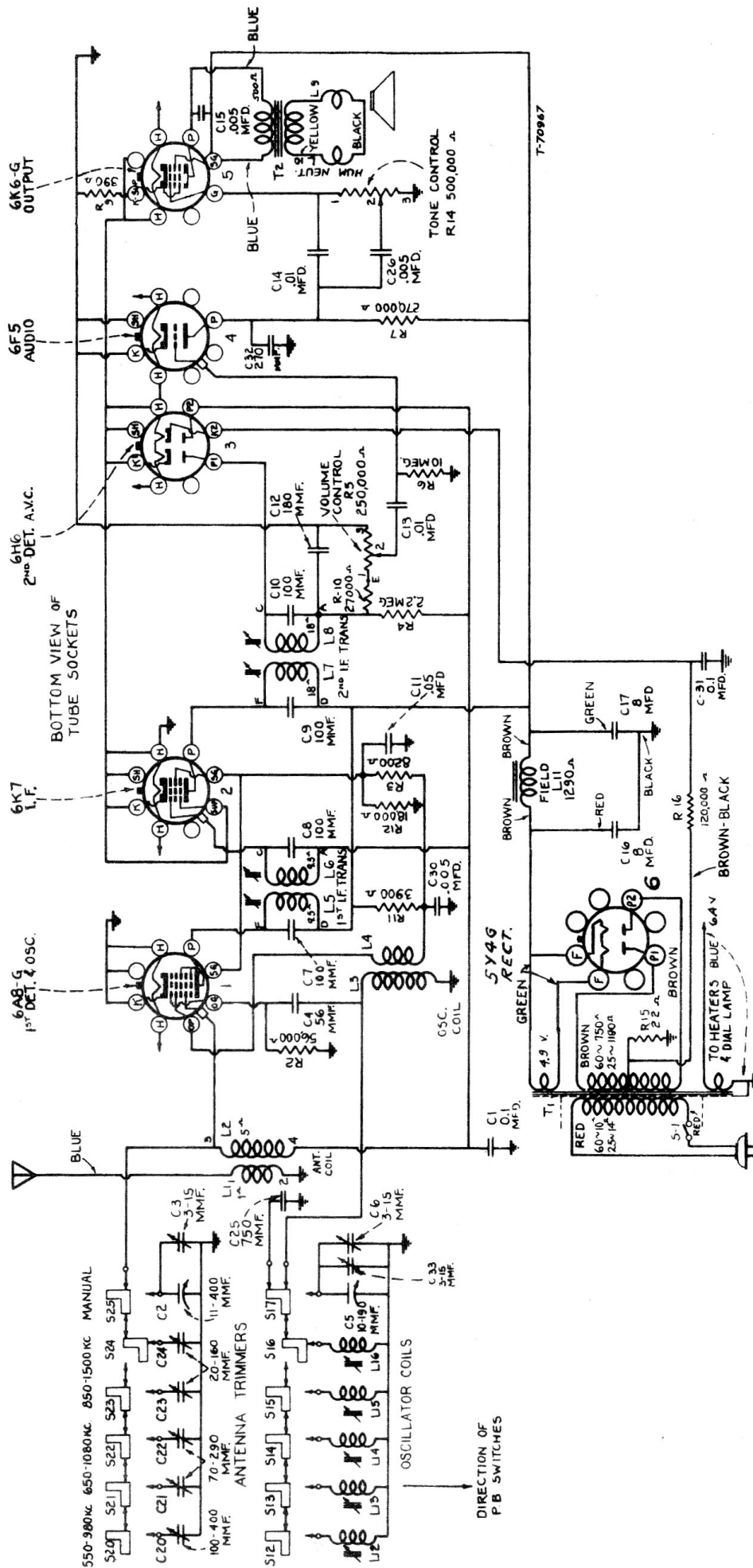


# Models 96T-1 A.C. Receiver



**Schematic Circuit Diagram**  
(L3 is 7½ ohms, and L4 is 2½ ohms)

## ALIGNMENT PROCEDURE

| Steps | Connect the high side of test-osc. to—      | Tune test-osc. to— | Turn radio dial to—            | Adjust the following for max. peak output |
|-------|---------------------------------------------|--------------------|--------------------------------|-------------------------------------------|
| 1     | 6K7 I-F grid cap, in series with .01 mfd.   | 455 kc             | Quiet point between 550-750 kc | L7 and L8<br>(2nd I-F Trans.)             |
| 2     | 6A8-G grid cap, in series with .01 mfd.     | 455 kc             |                                | L5 and L6<br>(1st I-F Trans.)             |
| 3     | Antenna lead (blue) in series with 200 mmf. | 1,500 kc           | 1,500 kc calibration mark.     | C6 (osc.)*<br>C3 (ant.)                   |

\* The oscillator section of the gang condenser has two trimmers, one on top, accessible through a hole in the chassis, and the other on bottom. It may be necessary to adjust both of these trimmers to secure a peak on 1.500 kc.

## REPLACEMENT PARTS for Model 96T1

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

| STOCK No.                  | DESCRIPTION                                                                                                                   | STOCK No. | DESCRIPTION                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------|
| <b>RECEIVER ASSEMBLIES</b> |                                                                                                                               |           |                                                                                                   |
| 31416                      | Capacitor-Oscillator coils trimmer capacitor bank (C20,C21,C22,C23,C24).....                                                  | 31364     | Socket-Dial lamp socket.....                                                                      |
| 12723                      | Capacitor-56 mmfd. (C4).....                                                                                                  | 31251     | Socket-Radiotron socket.....                                                                      |
| 30904                      | Capacitor-100 mmfd.(C7,C8,C9,C10)..                                                                                           | 31418     | Spring-Indicator drive cord tension spring                                                        |
| 13003                      | Capacitor-180 mmfd.(C12).....                                                                                                 | 31414     | Switch-Push button station selector switch (S12,S13,S14,S15,S16,S17,S20,S21,S22,S23,S24,S25)..... |
| 12488                      | Capacitor-270 mmfd.(C32).....                                                                                                 | 30957     | Transformer-First i-f transformer (L5,L6,C7,C8).....                                              |
| 31435                      | Capacitor-750 mmfd.(C25).....                                                                                                 | 30903     | Transformer-Second i-f transformer (L7,L8,C9,C10).....                                            |
| 4838                       | Capacitor-.005 mfd.(C15,C26,C30)...                                                                                           | 31574     | Transformer-Power transformer 100-120 volts,25-60 cycle (T1)..                                    |
| 14393                      | Capacitor-.01 mfd.(C13,C14).....                                                                                              | 31380     | Transformer-Power transformer 100-120 volts,50-60 cycle (T1)..                                    |
| 4886                       | Capacitor-.05 mfd.(C11).....                                                                                                  |           |                                                                                                   |
| 30899                      | Capacitor-0.1 mfd.(C1,C31).....                                                                                               |           |                                                                                                   |
| 31424                      | Capacitor-Comprising 2 sections 8 mfd. each (C16,C17).....                                                                    |           |                                                                                                   |
| 31382                      | Clip-Oscillator coil and core mounting clip .....                                                                             |           |                                                                                                   |
| 30894                      | Coil-Antenna coil (L1,L2).....                                                                                                |           | <b>SPEAKER ASSEMBLY (84326-1)</b>                                                                 |
| 31098                      | Coil-Oscillator coil (L3,L4).....                                                                                             | 31476     | Cone-Speaker cone and voice coil (L9).....                                                        |
| 31383                      | Coil-Oscillator coil (L15,L16).....                                                                                           | S-2229    | Coil-Field Coil,(L11).....                                                                        |
| 31384                      | Coil-Oscillator coil (L14).....                                                                                               | 31475     | Speaker-Complete.....                                                                             |
| 31415                      | Coil-Oscillator coil (L12,L13).....                                                                                           | 31477     | Transformer-Output Transformer (T2).....                                                          |
| 31422                      | Condenser-2-gang variable tuning condenser (C2,C3,C5,C6,C33).....                                                             |           |                                                                                                   |
| 31413                      | Control-Volume control,tone control and power switch (R5,R14,S1).....                                                         |           |                                                                                                   |
| 30877                      | Cord-Indicator drive cord.....                                                                                                |           |                                                                                                   |
| 30905                      | Core-Adjustable core and stud for i-f transformers.....                                                                       |           |                                                                                                   |
| 31386                      | Core-Adjustable core and stud for oscillator.....                                                                             |           |                                                                                                   |
| 31421                      | Drum-Variable condenser drive cord drum.....                                                                                  |           |                                                                                                   |
| 31420                      | Indicator-Station selector indicator pointer.....                                                                             |           |                                                                                                   |
| 11891                      | Lamp-Dial lamp.....                                                                                                           |           |                                                                                                   |
| 31419                      | Plate-Dial color plate.....                                                                                                   |           |                                                                                                   |
| 31373                      | Pulley-Indicator drive cord pulley.                                                                                           |           |                                                                                                   |
| 31425                      | Resistor-Voltage divider comprising one 22 ohm,one 18,000 ohm, one 8,200 ohm,and one 3,900 ohm sections (R3,R11,R12,R15)..... |           |                                                                                                   |
| 31388                      | Resistor-390 ohms, 1 watt (R9).....                                                                                           |           |                                                                                                   |
| 12738                      | Resistor-27,000 ohms, $\frac{1}{4}$ watt (R10)..                                                                              |           |                                                                                                   |
| 12286                      | Resistor-56,000 ohms, $\frac{1}{4}$ watt (R2)..                                                                               |           |                                                                                                   |
| 13734                      | Resistor-120,000 ohms, $\frac{1}{4}$ watt (R16)..                                                                             |           |                                                                                                   |
| 12199                      | Resistor-270,000 ohms, $\frac{1}{4}$ watt (R7)..                                                                              |           |                                                                                                   |
| 12679                      | Resistor-2.2 meg., $\frac{1}{4}$ watt (R4).....                                                                               |           |                                                                                                   |
| 13601                      | Resistor-10 meg., $\frac{1}{4}$ watt (R6).....                                                                                |           |                                                                                                   |
| 14887                      | Retainer-Pulley retainer                                                                                                      |           |                                                                                                   |
| 14350                      | Screw-No.8-32 square head set screw for drum Stock No.31421                                                                   |           |                                                                                                   |
|                            |                                                                                                                               |           | <b>MISCELLANEOUS ASSEMBLIES</b>                                                                   |
|                            |                                                                                                                               | 31428     | Button-Station selector switch push button                                                        |
|                            |                                                                                                                               | 31429     | Dial-Station selector dial scale..                                                                |
|                            |                                                                                                                               | 31095     | Discs-Celluloid protector discs for call letter markers.....                                      |
|                            |                                                                                                                               | 31667     | Escutcheon-Dial escutcheon.....                                                                   |
|                            |                                                                                                                               | 30773     | Knob-Volume control or tuning condenser large knob.....                                           |
|                            |                                                                                                                               | S-2231    | Knob-Tuning condenser small knob..                                                                |
|                            |                                                                                                                               | 31391     | Knob-Tone control and power switch knob.....                                                      |
|                            |                                                                                                                               | S-2230    | Marker-Station call letter markers                                                                |
|                            |                                                                                                                               | 14270     | Spring-Retaining spring for knob Stock Nos. 30773                                                 |
|                            |                                                                                                                               | 30330     | Spring-Retaining spring for knob Stock No. 31391                                                  |
|                            |                                                                                                                               | S-2051    | Screwdriver-Aligning screwdriver.                                                                 |