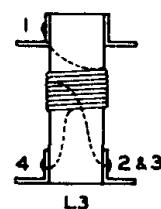


C 1 2 Gang variable  
 C 2 Part of C 1  
 C 3 Part of C 1  
 C 4 100 mmfd mica  $\pm$  10% 500 v D.C. working  
 C 5 Compression trimmer 70-470 mmf  
 C 6 Compression trimmer 1.6-18 mmf(part of C 5)  
 C 7 3000 mmfd mica  $\pm$  10% 500 v D.C. working  
 C 8 .05 mfd, tubular, paper, 400 v D.C. working  
 C 9 125 mmfd mica,  $\pm$  25% part of T2  
 C 10 .01 mfd, paper, tubular 400 v D.C. working  
 C 11 .0015 mfd, mica  $\pm$  20% 500 V C.C. working  
 C 12 .01 mfd, paper tubular 400 v D.C. working  
 C 13 .01 mfd, paper tubular 400 v D.C. working  
 C 14 .2 mfd paper tubular 400 v D.C. working  
 C 15 .05 mfd paper dielectric 400 v D.C. working.  
 C 16 Electrolytic, 2 section Common cathode  
     40 mfd 150 DCWV Sect. 1  
     40 mfd 150 DCWV Sect. 2  
 C 17 Part of C 16  
 C 18 .1 mfd, paper, tubular 400 v D.C. working  
 C 19 .002 mfd, paper, tubular, 600 v D.C. working  
 C 20 470 mmfd.mica  $\pm$  20% 500 v D.C. working  
 C 21 Part of T1  
 C 22 Part of T1  
 C 23 Part of T2  
 C 24 Part of T2  
     100 mmfd.mica  $\pm$  10% 500 v D.C. working

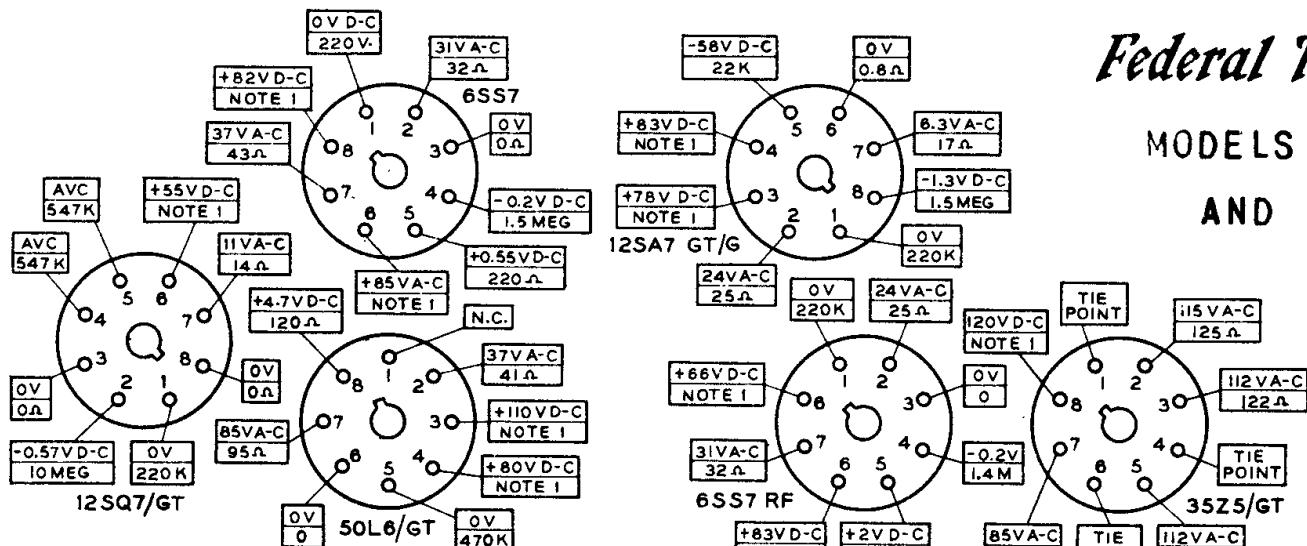
11, I2 3.2 v, 160 ma.miniature bayonet base  
 L1 200.5 uh  $\pm$  1 uh;dist.cap.12mmf max.  
 L2 2 band osc coil assy.  
 L3 SW. RF Coil  
 L4 Slug tuned, variation 30-55 uh  $\pm$  10%  
 LS1 5" p.m., 3.2 ohm v.c.  
 R1 22000 ohms  $\pm$  20% 1/2 watt carbon  
 R2 1.0 megohm  $\pm$  20%, 1/2 watt carbon  
 R3 220 ohms  $\pm$  20%, 1/2 watt carbon  
 R4 47000 ohms,  $\pm$  20%, 1/2 watt carbon Part of T2  
 R5 500,000 ohms taper 50,000 ohms at 1/2 rotation,  
     with "on-off" switch  
 R6 10.0 megohm  $\pm$  20%, 1/2 watt carbon  
 R7 0.22 megohm  $\pm$  20%, 1/2 watt carbon  
 R8 0.47 megohm  $\pm$  20%, 1/2 watt carbon  
 R9 120 ohms  $\pm$  10%, 1/2 watt carbon  
 R10 270 ohms  $\pm$  10%, 1/2 watt carbon  
 R11 1500 ohms  $\pm$  5%, 1 watt carbon  
 R12 220,000 ohms  $\pm$  20%, 1/2 watt carbon  
 R16 470 ohms  $\pm$  20%, 1/2 watt carbon  
 R17 4700 ohms  $\pm$  20%, 1/2 watt carbon  
 R18 0.1 megohm  $\pm$  20%, 1/2 watt carbon  
 S1 Part of R5  
 S2 4 pole, 2 position  
 T1 Double tuned, 455 kc.  
 T2 " " " "  
 T3 Primary Impedance 2500 ohms,secondary 3.2 ohms,



Federal Telephone & Radio  
 Models 1030T & 1540T  
 See next page for  
 alignment information.

# Federal Telephone

MODELS 1030T  
AND 1540T



- Resistance readings at these points will vary since they are in series with the leakage of the electrolytic condensers which is subject to change.
- All D.C. measurements were made with a meter having a sensitivity of 20,000 ohms per volt.
- A.C. measurements were made with a 1000 ohms per voltmeter.
- Measured values are from socket pin to circuit ground. (pin 8 of 12SQ7 socket).
- Tolerances of component values make possible a variation of  $\pm 20\%$  in readings

Punch marks are provided on the dial back plate at 600 kc, 1000 kc, 1400 Kc and 1600 Kc for alignment purposes.

With tuning condenser completely open, set dial pointer to 1600 Kc punch mark.

Connect output meter across voice coil terminals on speaker frame.

Connect low side of signal generator lead thru a 0.1 mfd coupling condenser to chassis ground. Connect high side of generator thru proper dummy antenna to the receiver external antennas connection.

Keep signal generator output at lowest practical level and proceed according to table below.

## ALIGNMENT CHART

DUMMY ANTENNA	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POSITION	RECEIVER DIAL SETTING	ADJUSTMENT POINTS	OUTPUT METER READING
0.1 MFD.	455 Kc	B.C.	Tuning Condenser Open	C24, C23, C22, C21	Max.
0.1 MFD.	455 Kc	B.C.	Tuning Condenser Open	L4	Min.
200 MMFD.	1600 Kc	B.C.	Tuning Condenser Open	C6	Max.
200 MMFD.	1400 Kc	B.C.	1400 Kc	C3	Max.
200 MMFD.	600 Kc	B.C.	600 Kc	L1	Max.

(Check, adjust if necessary)

C5

Max.

