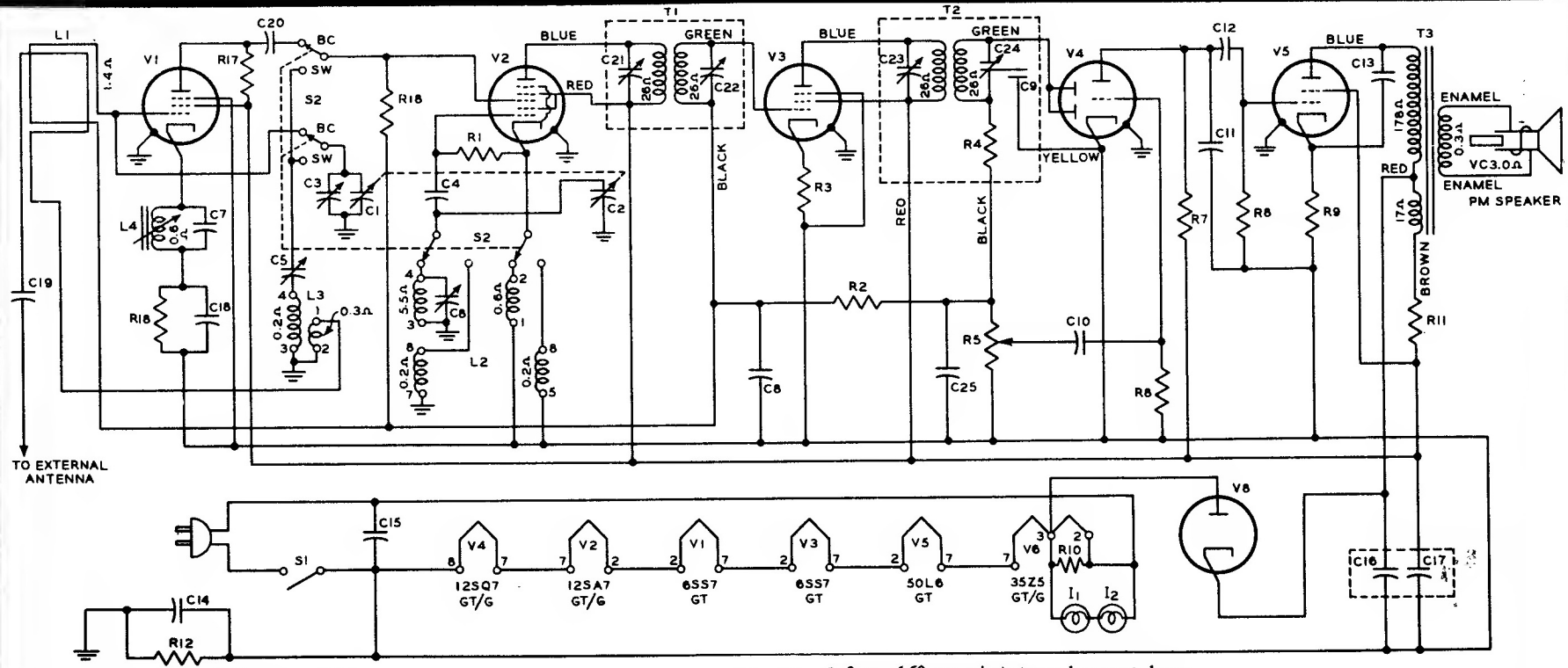
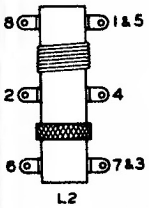
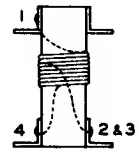




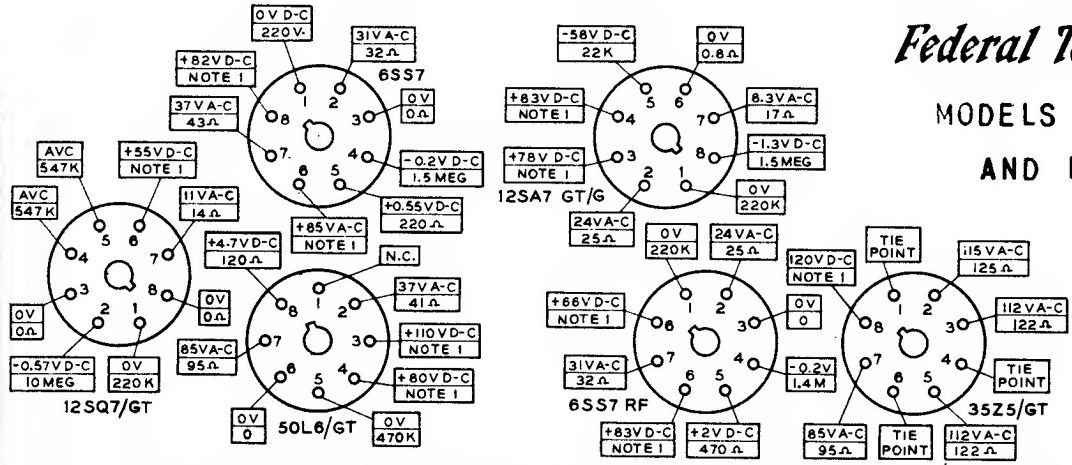
C 1	2 Gang variable
C 2	Part of C 1
C 3	Part of C 1
C 4	100 mmfd mica ± 10% 500 v D.C. working
C 5	Compression trimmer 70-470 mmf
C 6	Compression trimmer 1.6-18 mmf(part of C 5)
C 7	3000 mmfd mica ± 10% 500 v D.C. working
C 8	.05 mfd, tubular,paper,400 v D.C. working
C 9	125 mmfd mica, ± 25% part of T2
C 10	.01 mfd,paper,tubular 400 v D.C. working
C 11	.0015 mfd, mica± 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 mmf.mica ± 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
C 25	100 mmf.mica ± 10% 500 v D.C. working
I1, I2	3.2 v, 160 ma.miniature bayonet base
L1	200.5 uh ± 1 uh;dist.cap.12mmf max.
L2	2 band osc coil assy.
L3	SW. RF Coil
L4	Slug tuned, variation 30-55 uh ± 10%
LS1	5" p.m., 3.2 ohm v.c.
R1	22000 ohms ± 20% 1/2 watt carbon
R2	1.0 megohm ± 20%, 1/2 watt carbon
R3	220 ohms ± 20%, 1/2 watt carbon
R4	47000 ohms, ± 20%, 1/2 watt carbon Part of T2
R5	500,000 ohms taper 50,000 ohms at 1/2 rotstion, with "on-off" switch
R6	10.0 megohm ± 20%, 1/2 watt carbon
R7	0.22 megohm ± 20%, 1/2 watt carbon
R8	0.47 megohm ± 20%, 1/2 watt carbon
R9	120 ohms ± 10%, 1/2 watt carbon
R10	270 ohms ± 10%, 1/2 watt carbon
R11	1500 ohms ± 5%, 1 watt carbon
R12	220,000 ohms ±20%, 1/2 watt carbon
R16	470 ohms ± 20%, 1/2 watt carbon
R17	4700 ohms ± 20%, 1/2 watt carbon
R18	0.1 megohm ± 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

Federal Telephone

MODELS 1030T AND 1540T



1. Resistance readings at these points will vary since they are in series with the leakage of the electrolytic condensers which is subject to change.
2. 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.
3. Measured values are from socket pin to circuit ground. (pin 8 of 12SQ7 socket).
4. Tolerances of component values make possible a variation of ± 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 antenna 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 (Check, adjust if necessary)	Max.
400 ohms	6 Mc	S.W.	6 Mc	C5	Max.