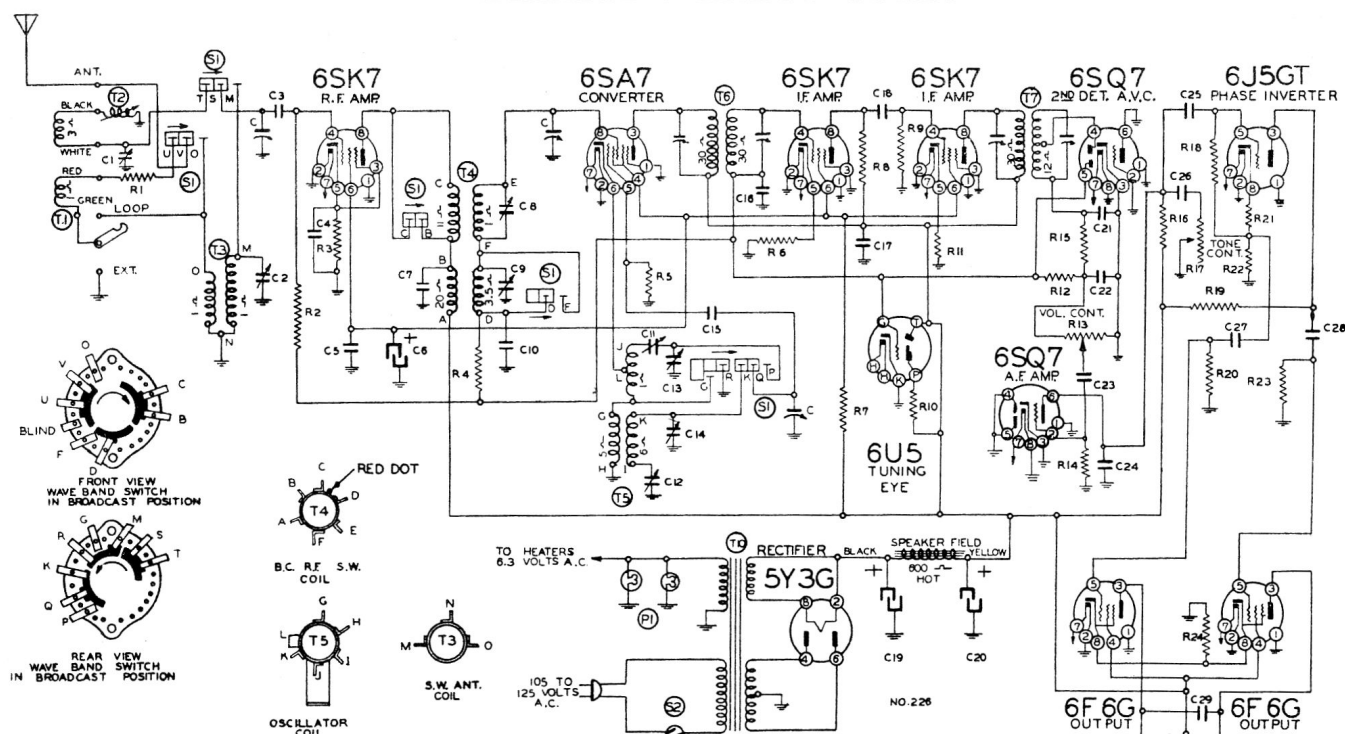




RESISTORS

R1	13024	400 ohms— $\frac{1}{2}$ w.
R2	13019	1 megohm— $\frac{1}{2}$ w.
R3	13099	300 ohms— $\frac{1}{2}$ w.
R4	1305	300M ohm— $\frac{1}{2}$ w.
R5	130208	40M ohm— $\frac{1}{2}$ w.
R6	13054	500 ohm— $\frac{1}{2}$ w.
R7	130304	12M ohm—2 w.
R8	130263	12M ohm— $\frac{1}{2}$ w.
R9	13020	100M ohm— $\frac{1}{2}$ w.
R10		1 megohm—in eye socket
R11	13054	500 ohm— $\frac{1}{2}$ w.
R12	130170	3 megohm— $\frac{1}{2}$ w.
R13	101214	Volume control (500M ohm)
R14	130225	15 megohm— $\frac{1}{2}$ w.
R15	13012	50M ohm— $\frac{1}{2}$ w.
R16	13011	250M ohm— $\frac{1}{2}$ w.
R17	101213	Tone control (1 megohm)
R18	13019	1 megohm— $\frac{1}{2}$ w.
R19	13020	100M ohm— $\frac{1}{2}$ w.
R20	1303	500M ohm— $\frac{1}{2}$ w.
R21	13043	2500 ohm— $\frac{1}{2}$ w.
R22	13020	100M ohm— $\frac{1}{2}$ w.
R23	1303	500M ohm— $\frac{1}{2}$ w.
R24	130311	300 ohm—1 w.

CONDENSERS

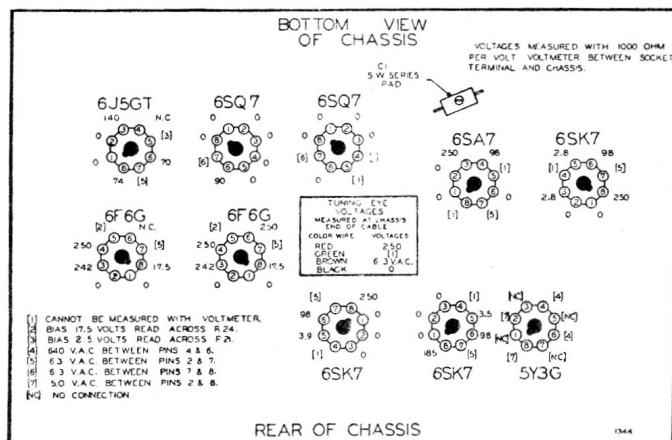
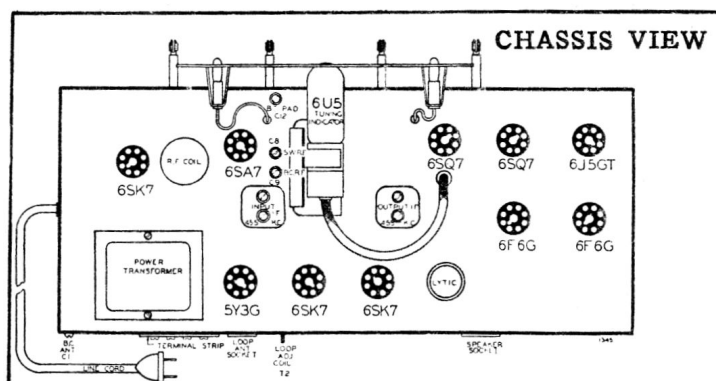
C	102129	Three gang variable condenser
C1	124132	B.C. antenna trimmer
C2	124117	S.W. antenna trimmer
C3	1292	.0005 mica
C4	10020	.1 x 200 v.
C5	100117	.25 x 400 v.
C6	119124	10 mfd. lytic—350 w. v.
C7	129160	.0004 mica
C8	124131	S.W. R.F. trimmer
C9	124131	B.C. R.F. trimmers
C10	10026	.02 x 400 v.
C11	129156	.0024 compression S.W. pad
C12	129157	.000525 compression B.C. pad
C13	124130	S.W. oscillator trimmer
C14	124130	B.C. oscillator trimmer
C15	12939	.00005 mica
C16	10026	.02 x 400 v.
C17	100117	.25 x 400 v.
C18	1292	.0005 mica
C19	119124	25 mfd. lytic—450 w. v.
C20	119124	25 mfd. lytic—450 w. v.
C21	1295	.0001 mica
C22	1295	.0001 mica
C23	10025	.002 x 600 v.
C24	12912	.00025 mica
C25	10026	.02 x 400 v.
C26	10011	.01 x 400 v.
C27	1009	.05 x 200 v.
C28	10013	.05 x 400 v.
C29	10071	.004 x 600 v.

- T1 111240 Loop antenna assembly
 T2 11153 Loop adjustable coil
 T3 11176 S.W. antenna coil
 T4 10957 B.C. S.W.—R.F. coil
 T5 110149 B.C. S.W. oscillator coil
 T6 1081691 Input I.F. 465 kc.
 T7 108130D Output I.F. 465 kc.
 T8 10554B Output transformer
 T9 114192B 10" dynamic speaker (600 ohm field)
 T10 104202 Power transformer
 S1 125111 Wave band switch
 S2 On-off switch on volume control
 P1 10794 (2) pilot light bulbs T-44

C6, C19 and C20 in one unit

C8 and C9 in one unit

C13 and C14 in one unit



ALIGNMENT PROCEDURE

• Volume control—Maximum all adjustments.

• Connect radio ground to ground post of signal generator with a short heavy lead.

• Connect dummy antenna value in series with generator output lead.

The following equipment is required for aligning.

• An all wave signal generator which will provide an accurately calibrated signal at the test frequencies as listed.

• Dummy antennas—1 muf., 200 mmf., 400 ohms.

SIGNAL GENERATOR

BAND	Frequency Setting	Dummy Antenna	Connection to Radio	Position of Band Switch	Variable Condenser Setting	Trimmers Adjusted (in Order Shown)	Trimmer Function	Adjustment
I. F.	455 Kc.	.1 MFD.	Grid of 6SK7 I. F.	Broadcast	Rotor full open (Plates out of mesh)	Two trimmers on top	Output I. F.	Adjust to maximum output
	455 Kc.	.1 MFD.	Grid of 6SA7 Mixer	Broadcast	Rotor full open (Plates out of mesh)	Two trimmers on top	Input I. F.	Adjust to maximum output
SHORT WAVE BAND	17 Mc.	400 Ohms	External Antenna and Ground	Short Wave	Set Dial at 17 Mc.	Trimmer C13	Short Wave oscillator	Adjust to maximum output
	17 Mc.	400 Ohms	External Antenna and Ground	Short Wave	Set Dial at 17 Mc.	Trimmers C8, C2	Short Wave R. F. and S. W. Antenna	Adjust to maximum output
	6 Mc.	400 Ohms	External Antenna and Ground	Short Wave	Set Dial at 6 Mc.	Trimmer C11 (See voltage chart)	Short Wave oscillator series pad	Adjust to maximum rock dial. (See note "C")
BROADCAST BAND	1580 Kc.	200 mmf.	Grid of 6SK7 R. F. Tube	Broadcast	Rotor full open (Plates out of mesh)	Trimmer C14	Broadcast oscillator	Adjust to maximum output
	540 Kc.	200 mmf.	Grid of 6SK7 R. F. Tube	Broadcast	Set Dial at 540 Kc. (Plates in Mesh)	Trimmer C12	Broadcast oscillator series pad	Adjust to maximum output
	1400 Kc.	200 mmf.	Grid of 6SK7 R. F. Tube	Broadcast	Set Dial at 1400 Kc.	Trimmer C9	Broadcast R. F.	Adjust to maximum output
LOOP ALIGNMENT	1400 Kc.	200 mmf.	External Antenna and Ground	Broadcast	Set Dial at 1400 Kc.	Trimmer C1	Broadcast antenna	Adjust to maximum output
	600 Kc.	200 mmf.	External Antenna and Ground	Broadcast	Set Dial at 600 Kc.	Trimmer T2	Iron Core Tracking Coil	Adjust to maximum output

NOTE "A"—The signal generator is connected to the "ANT." and "GND." terminals on the rear of the chassis when aligning the Short Wave Band and to the grid of the 6SK7 R. F. Tube and ground terminal when setting the Broadcast Band oscillator end frequencies, (1580 and 540 K. C.).

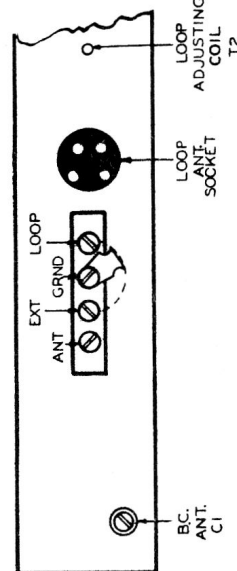
The loop antenna need not be connected to the radio when making these adjustments.

NOTE "B"—Loop alignment is made with the chassis mounted in the cabinet and the loop antenna connected to the terminal board. The signal generator is connected to

the "ANT." and "GND." terminals and the jumper on the terminal board connected to the "EXT." terminal.

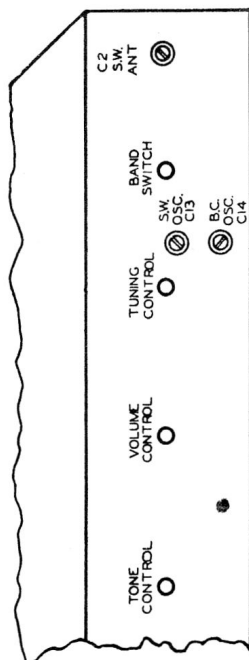
NOTE "C"—Turn the dial back and forth slightly (rock) and adjust trimmer until the peak of greatest intensity is obtained. Attenuate the signal from the signal generator to prevent the leveling-off action of the AVC.

After each band is completed, repeat the procedure as a final check.



ANT. & GROUND TERMINALS—When using an external antenna and ground, move the metal strap shown above and fasten it under the screw marked "Ext."

The antenna and ground wires should then be connected to the terminals marked "Ant." — "Grnd."



TRIMMER VIEW—FRONT OF CHASSIS

Tuning Frequency Range Broadcast Band - 540 to 1580 KC
Short Wave Band - 5.5 to 18.5 MC