

### ALIGNMENT AND SERVICE DATA

Remove chassis from cabinet for alignment. A signal generator is required having the following frequencies 455 KC and 1400 KC. An output meter should be connected across the speaker.

**FIRST STEP** Connect the hot lead from the generator to the ANT section of the gang condenser, through a 1 MFD condenser. The ground lead from the generator may be connected to any spot on the metal chassis. Turn the gang condenser to complete minimum capacity. Set the generator to 455 KC. Adjust the movable iron cores in the IF cans. These IF adjustments are made in the top and in the bottom of the can under the chassis. Adjust the cores until a maximum reading is noted on the output meter.

The volume control of the receiver should be turned to maximum during the IF and all subsequent alignment and the generator output as low as possible to prevent the AVC from working and giving false readings.

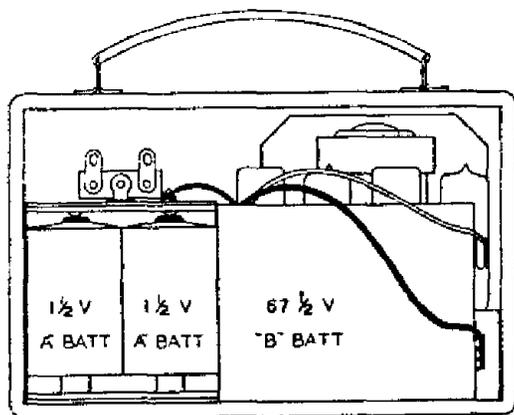
**SECOND STEP** With the leads from the generator still connected as in IF alignment, adjust the generator to 1400 KC. Set the dial pointer to 1400 KC on the dial scale. Adjust the oscillator trimmer until the signal is tuned in.

**THIRD STEP** Remove the generator leads from the gang condenser. Replace the chassis in the cabinet. Loosely couple the generator to the receiver loop by making a complete turn over the outside of the cabinet. With the receiver and the generator still set at 1400 KC increase the generator output. Adjust the Antenna trimmer through the back of the chassis until a maximum signal is noted on the output meter.

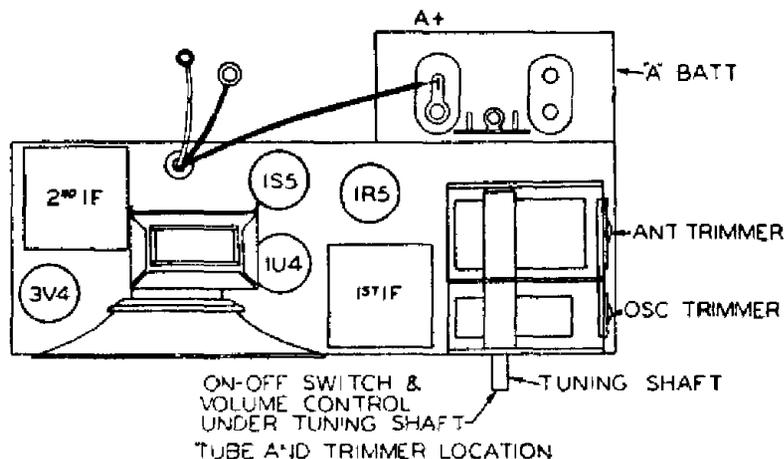
No further adjustment should be necessary as the coils and gang condenser in this receiver have been specially handled at the factory to insure proper alignment at the lower frequencies.

**NOTE** When the antenna trimmer is adjusted at 1400 KC., the chassis as well as the "A" and "B" batteries must be in normal position in the cabinet to reflect the proper loop impedance.

ART NO	DESCRIPTION
IR-20	R 1 220M $\Omega$ RESISTOR 1/2W 20%
IR-23	R 2 33MEG RESISTOR 1/2W 20%
IR-31	R 3 82M $\Omega$ RESISTOR 1/2W 10%
IR-3	R 4 10MEG RESISTOR 1/2W 20%
VC 8	R 5 IMEG VOLUME CONTROL
IR-12	R 6 IMEG RESISTOR 1/2W 20%
IR-13	R 7 2MEG RESISTOR 1/2W 20%
IR-36	R 8 620 $\Omega$ RESISTOR 1/2W 5%
IR-37	R 9 10M $\Omega$ RESISTOR 1/2W 20%
TC-7	C 1 ANT TRIMMER
	C 2 OSC TRIMMER ON GANG
MC-2	C 3 100MMFD MICA CONDENSER
PC-7	C 4 20 MFD 400 V CONDENSER
PC 8	C 5 0.05MFD 600 V CONDENSER
EC 7	C 6 20MFD 80WV ELECTROLYTIC
GC-4	C 1 GANG CONDENSER
LL 1B	L 1 LOOP ANTENNA
LO 16	L 2 OSC COIL
LI 3	T 1 IF TRANSFORMER INPUT
	SW DPST SWITCH ON VOLUME CONTROL
SPK 8	T 2 SPEAKER TRANSFORMER
	VC VOICE COIL
LI-4	T 3 PM SPEAKER
TU 30	T 3 IF TRANSFORMER OUTPUT
	1R5 1U4 1S5 3V4



BATTERY LOCATION



TUBE AND TRIMMER LOCATION