PRELIMINARY TESTS:

Regardless of what the stated complaint may be, the following overall conditions should be checked:

(a) Condition of the battery (voltage with the set turned on).

(b) Overall current drain with no signal input (should be 9—12 mA).

(c) Soldered connections. Turn the radio on with maximum volume. While listening to the loudspeaker, gently wiggle all visible components and leads with an insulated tool such as an alignment tool.

(d) Sensitivity by listening test.

(e) Distortion by listening test.

ALIGNMENT TABLE

Order	*Connect High Side of Generator To*	*Tune Generator To*	*Tune Receiver To*	*Adjust for Maximum Peak Output*
1	Aerial Section of Gang	455 Kc/s.	H.F. Limit	Core T5
2	Aerial Section of Gang	455 Kc/s.	H.F. Limit	Core T4
3	Aerial Section of Gang	455 Kc/s.	H.F. Limit	Core T3
	Repeat steps 1, 2 and 3 until maximum output is obtained.‡			
4	Inductively coupled * to Rod Aerial	600 Kc/s.	600 Kc/s.	L.F. Osc. Core Adj. (T2) †
5	Inductively coupled * to Rod Aerial	1,620 Kc/s.	Gang fully open	H.F. Osc. Adj. (C4)
6	Inductively coupled * to Rod Aerial	1,500 Kc/s.	1,500 Kc/s.	H.F. Aerial Adj. (C2) x
	Repeat steps 4, 5 and 6.			

* A coil comprising 3 turns of 16 gauge D.C.C. wire about 12 inches in diameter should be connected across the output terminals to the generator, placed concentric with the rod aerial and distant not less than one foot from it.

† Rock the tuning control back and forth through the signal.

x Rock generator back and forth through the signal as there is some pulling effect on this adjustment.

‡ These transformers are a very high Q miniature type. It should be appreciated then that the amount of travel for the tuning core to cover its tuning range is much smaller than on normal I.F. transformers. Tuning the I.F. thus becomes more critical, and the following hints will prove useful.

(a) The tuning tool used should be a small metal screwdriver whose tip fits cleanly into the tuning core.

(b) When turning the core, do not use any downward pressure as the threaded boss has enough resilience to detune the I.F. after the pressure has been relieved.

(c) The threads on the boss may be damaged if the core is wound in and forced against the winding bobbin. This should never happen as only a light torque is needed to turn the tuning core normally.