

TO THE SERVICE MAN:

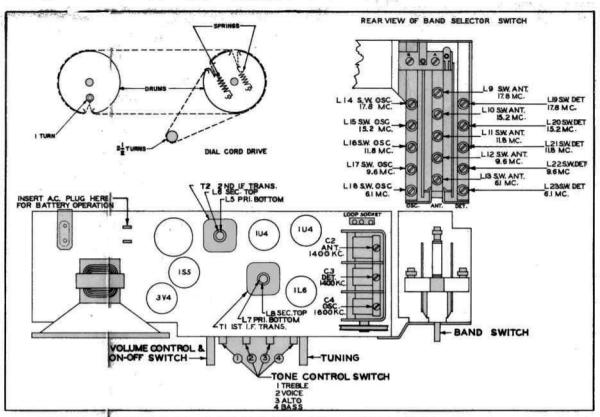
Chassis 5G40 features a high gain tuned RF stage ahead of a conventional superheterodyne circuit with band spread tuning on the 49, 31, 25, 19 and 16 meter bands.

If removal of the chassis from the cabinet ever becomes necessary this should be done with care.

The alignment of chassis 5G40 is conventional. However, care must be exercised when making adjustments, and the alignment procedure must be followed exactly. Set the chassis over a metal plate approximately the same distance the battery pack is from the bottom of the chassis when it is in the cabinet. This procedure will introduce the approximate amount of metal in the field of the RF and oscillator coils as when the chassis is in the cabinet. A signal generator of reasonable accuracy and good attenuation must be used. An output meter (AC) of the copper oxide rectifier type with a range of 1 to 30 volts in several steps is necessary to get accurate output readings. Alignment wrenches should be of the nonmetallic type, especially when making adjustments at the higher frequencies.

When reinstalling the chassis in the cabinet be careful not to disturb the cabling between the short wave coil assembly and chassis. Tune in a weak broadcast signal near 1400 Kc. and touch up trimmer C2. This will insure maximum performance after alignment.

The I.F. transformers incorporated in this receiver are of the new permeability tuned type. The advantage of an I.F. transformer of this type is its extreme stability under various humidity and temperature conditions. The upper coil is the secondary and the lower the primary. When adjusting these I.F. transformers the tuning wrench 68-7 can be inserted into the top slug, rotated until maximum output is obtained and then dropped down to the lower slug and the same operation repeated. The tuning wrench is so designed that turning one slug does not affect the adjustment of the other.



TUBE, TRIMMER LOCATION AND DIAL CABLE DRAWING
ALIGNMENT PROCEDURE

OPERA- TION	Company Description	NNECT ATOR TO	DUMMY ANTENNA	INPUT SIG. FREQUENCY	BAND	SET DIAL AT	TRIMMERS	PURPOSE
1	Positive lead of signal generator to converter grid through a .1 MFD condenser and negative lead to neg- ative filament of 1L6 tube.			455 Kc.	вс	600 Kc.	L5, 6, 7, 8	Align I.F.
2				1600 Kc.	ВС	1600 Kc.	C4	Set Oscillator to Scale
3	One turn loop Coupled loosely to Broedcast Wavemagnet			1400 Kc.	вс	1400 Kc.	C3	Alignment of Detector
4				1400 Kc.	ВС	1400 Kc.	C2	Alignment of B.C. Wavemagnet
5*	3 feet of wire Approx. 1 foot from Extended Waverod			6.1 Mc.	49 Met.	6.1 Mc.	L18, 23, 13	Alignment of S.W. Oscilla- tor, detector and antenna
6*				9.6 Mc.	31 Met.	9.6 Mc.	L17, 22, 12	
7*				11.8 Mc.	25 Met.	11.8 Mc.	12027	
8*				15.2 Mc.	19 Met.	15.2 Mc.	L15, 20,	
9*				17.8 Mc.	16 Met.	17.8 Mc.	L14, 19,	

*NOTE: Rock Tuning Condenser When Making Alignment Under Operations 5,6,7, 8 and 9.

