

OPTIONAL 6 MEG IF ALIGNMENT

The goal in this operation is to produce flat response through the 6 Meg I.F. Some roll of at the ends is expected but from 3.550 through 3.950 the response should be flat. We will accomplish this task in the transmit mode using the signals generated within the radio. The expected output level of the 6meg I.F. is 1vpp.

It is important that the bias has been set up to spec (70mills with no drive to the finals). If you are concerned about the final tubes adjust the bias for an idle current of 30 or 40mills.

- 1, Remove v12 the heterodyne oscillator tube.
 - 2, Set band switch to 80 meters
 3. Connect X10 scope probe to V11A pin 7
 4. PRESET the following controls:
 - RF GAIN MINIMUM
 - AF GAIN MINIMUM
 - MIC GAIN MINIMUM
 - RF LEVEL MINIMUM
 - RIT switch OFF
 - RIT control CENTER OF ITS ROTATION.
 - CAL CENTER OF ITS ROTATION
 - FUNCTION to USB
 5. Turn the OPERATION switch to MOX and allow 20 minutes for warm up.
 6. Tune the freq dial to 3.550.
 7. Switch the function switch to the TUNE position.
 - 8 Adjust the top and bottom slug of T1 for peak. Then adjust the bottom slug DOWN for a reduction in signal of about 5%. Then adjust the top slug UP for an equal reduction of signal.
 9. Adjust the top and bottom slug of T2 in the same manner as you did T1.
 - 10 Tune the freq dial to 3.950
 11. Adjust both slugs in T1 and T2 for peak signal. Record or make note of the peak voltage.
 12. Tune the freq dial slowly back to 3.550 while observing the signal on V11A pin 7.
- If the signal does not dip or peak more than 0.1v then all is well and you are done. You may have to repeat the steps 6 through 12 several times to get it to balance at both ends.