

SECTION III

TUNE-UP PROCEDURE - CRYSTAL OPERATION.

- a. Place all power and control switches in the OFF position. Place EXCITER switch to XTAL OPERATE.
- b. Insert AC line cord plug into a 110-115 volt, 60 cycle, single phase current source.
- c. Connect antenna feed line to coax connector marked ANT. (Rear of RF chassis).
- d. Select the proper crystal for the frequency from the crystal chart, TABLE II, insert into XTAL socket. Place XTAL-VFO switch in XTAL position.
- e. Place FILAMENT switch (power supply panel) to the ON position, and allow three minutes warm-up time.
- f. Set EXC. and FINAL bandswitches to the desired band.
- g. Place FUNCTION switch to the TUNE position.
- h. Set ANT. COUPLING switch to position indicated in TABLE III for band in use and load expected. Set ANT. LOAD control to minimum (counter-clockwise).
- i. Rotate F. GRID DRIVE control to position 5.
- j. Place SB-AM switch in AM position. (On panel of RF section).
- k. Place METER switch in OSC. position. Place MODE switch on the MODULATOR section to the CW position.
- l. Place EXCITER switch to XTAL TUNE position and adjust OSCILLATOR tuning control for minimum current indication of the meter. Note the tuning chart for approximate dial reading for band in operation.
- m. Place METER switch to BUFF. position.
- n. Tune BUFFER plate control for minimum current reading. (Check TABLE III for typical dial readings, as a wrong harmonic can be tuned in some instances).
- o. Place METER switch to F. GRID position and note the amount of grid current. A reading of approximately 13 Ma should be obtained. If not, tune OSC. and BUFF. for maximum F. GRID current, adjust the F. GRID DRIVE control until a reading of 13 Ma is obtained.