

- (✓) Change the setting of the front panel controls as follows:

DRIVER PRESELECTOR – 21.2 position. See the inset drawing on Figure 1-3.

BAND – 21.0

MAIN TUNING dial – 200 kHz

NOTE: In the following step, the CAL signal and the VFO harmonic will be found very close together, showing that the VFO is correctly calibrated. The CAL signal is much stronger and can be identified by switching the FUNCTION switch between CAL and VOX.

- (✓) Turn the MAIN TUNING dial back and forth around 21.2 MHz for the loudest signal.
- (✓) Adjust driver grid coil 21 and driver plate coil 21 for a maximum S Meter indication.

- (✓) Turn the BAND switch to 14.0, the MAIN TUNING dial to 200 kHz, and the DRIVER PRESELECTOR to the 14.2 position.

- (✓) Tune the MAIN TUNING dial for the loudest signal and check for the calibrate signal.

- (✓) Adjust driver grid coil 14 and driver plate coil 14 for a maximum S Meter indication.

- (✓) Set the BAND switch at 7.0 and the MAIN TUNING dial at 200 kHz.

- (✓) Tune the MAIN TUNING dial for the loudest signal.

- (✓) Adjust driver grid coil 7 and driver plate coil 7 for a maximum S Meter indication.

- ( ) Set the FUNCTION switch to PTT.

Proper receiver operation will be indicated by minimum calibrator signals of S9 +20 dB at 3700 kHz and decreasing to S3 at 29.2 MHz.

## TRANSMITTER ALIGNMENT

See the "Reading the Meter" section on Page 139 before making any more adjustments.

CAUTION: The coil cover MUST be in place for proper transmitter operation.

- (✓) Connect a push-to-talk microphone to the MIC connector on the front panel.
- (✓) If a Monitor Scope is available, connect it between the ANTENNA jack and the dummy load. Be sure the dummy load is capable of 100 watts dissipation. Do not use light bulbs for a dummy load, as damage may result.
- (✓) Turn the adjusting screw of the NEUTRALIZING CAPACITOR (through the hole in the front of the RF Cage) clockwise until resistance is felt. Then turn the screw counterclockwise on full turn.
- (✓) Set the front panel controls as follows:

DRIVER PRESELECTOR – 12 o'clock position.

MIC/CW LEVEL – fully counterclockwise.

FINAL (round knob) – to 10 o'clock.

FINAL (lever knob) – to 4 o'clock.

MODE – LSB.

BAND – 3.5.

MAIN TUNING dial – 200 kHz.

FUNCTION – PTT.

METER – PLATE.

- (✓) Press the microphone button and turn the BIAS control (on the right side) of the Transceiver to set the meter needle at the ▼ mark (above the Figure 3) on the meter scale. This sets the resting cathode current. Do not press the microphone button more than a few seconds at one time until this resting cathode current has been properly adjusted.

- (✓) Set the METER switch to REL PWR and press the microphone button. The meter needle should show 0.