

TABLE 2. VFO ALIGNMENT

| REC/VFO TUNE | ADJUST | INDICATION |
|-----------------|----------------------|--|
| 50 Mc | L-10* | Unmodulated tone as heard on receiver. |
| 51 Mc | VC-3 Trimmer "A"* | Unmodulated tone as heard on receiver. |

*Repeat adjustments until calibration is correct at 50 and 51 Mc.

4. After VFO alignment is complete, return the SPOT switch to "OFF".

NOTE: When aligning the VFO section, a slight tracking error may be noted between transmit and receive frequencies. The front panel FINE Tuning adjustment for the receiver is used to correct any frequency error that may be noticed.

TRANSMITTER

IMPORTANT: Attempting to tune transmitter without a proper antenna or dummy load can damage the final output transistor.

1. Set all controls as indicated previously.
2. Connect the push-to-talk microphone to the MIC jack.
3. Connect a 5 watt, 50 ohm RF Wattmeter to the ANT coax connector.
4. Preset REC/VFO TUNE to 51 Mc.

The microphone's push-to-talk switch should be depressed only while performing each adjustment step in Table 3.

TABLE 3. TRANSMITTER ADJUSTMENT

| PURPOSE | ADJUST | INDICATION |
|------------------------------------|---------------------------|---|
| VFO Multipliers | L-11, L-12 | Maximum Indication on RF Wattmeter |
| Crystal Oscillator (See Note 1) | L-9 | |
| 1st Amplifier Driver | L-13 | |
| 2nd Amplifier Driver | L-14 | |
| Power Amplifier | L-15, L-16 VC-1*, VC-2 | |
| Spotting Level** | VR-5 | "S-5" on S-Meter |
| Power Meter | VR-2 | (See Note 2) |

* Located on rear panel.

**SPOT switch "ON".

NOTE 1: To adjust crystal oscillator the proper crystal must be inserted in the crystal socket and the VFO/XTAL/PA switch set to "XTAL". At the point of oscillation, screw in the core an additional 1.5 turns. After performing this step, be sure to return to VFO position.

NOTE 2: The front panel relative power meter should be adjusted to read the same power (in watts) as that indicated on the RF wattmeter. For example, if the RF wattmeter indicates 2 watts, the front panel meter should be set to read "2" on the Power scale.