

TRANSMITTER ALIGNMENT METHOD

X33X

1. Frequency Setting

- A. Connect a frequency counter or communications service monitor capable of at least five watt RF.
- B. Press the PTT switch.
- C. Adjust CT201 trimmer capacitor such that the output frequency is equal to the channel frequency with a maximum error of +/- 200 Hz. CT201 is located the right side of X202 X-tal .

2. Output Power Alignment

- A. Connect a communications service monitor or a wattmeter and dummy load to the antenna connector.
- B. Press the PTT switch.
- C. Adjust air coil (L6) by spreading or de-spreading, to achieve maximum power, not to exceed 0.1W.

Note: Normally, it is not necessary.

3. Deviation Adjustment

- A. Connect an audio generator with 10uF coupling capacitor to the microphone jack. The audio frequency should be set at 1KHz with a level of 200mV.
- B. Connect an FM deviation meter or communications service monitor to the antenna connector. Set the monitor to read peak deviation.
- C. Press the PTT switch.
- D. Adjust RV2 for +/- 2.1KHz deviation. RV2 is located the bottom center side of PCB.