

# TRANSMITTER ALIGNMENT METHOD

Gert

## 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  $\pm 200$  Hz. CT201 is located on the left side of 20.95MHz 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 0.076W ERP.

**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  $\pm 2.3$ KHz deviation. RV2 is located the below side of the VCO shield can.