

TRANSMITTER TUNE-UP AND ALIGNMENT

FRS400/420/440 Series

FCC ID: O9GFRS440

1. Frequency Setting

- A. Connect a frequency counter or communications service monitor capable of at least one watt RF.
- B. Press the PTT switch.
- C. Adjust CT300 trimmer capacitor such that the output frequency is equal to the channel frequency with a maximum error of ± 300 Hz. CT300 is located below the VCO shield can to the left of the crystal unit.

2. Deviation Adjustment

- A. Connect an audio generator to the microphone test terminals. The audio frequency should be set at 1KHz with a level of 8mv.
- 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 RV230 for ± 1.5 KHz deviation. RV230 is located to the lower right of the VCO shield can.