

# TRANSMITTER TUNE-UP AND ALIGNMENT

## FRS – FR50A and FR60A

### 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 C100 trimmer capacitor such that the output frequency is equal to the channel frequency with a maximum error of +/- 300 Hz. C100 is located below the VCO shield can to the right 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 R121 for +/- 1.5 KHz deviation. R121 is located to the right of the VCO shield can.