

TRANSMITTER TUNE-UP AND ALIGNMENT

FRS 35810XXX-A

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 C101 trimmer capacitor such that the output frequency is equal to the channel frequency with a maximum error of +/- 300 Hz. C101 is located below the VCO shield can to the right of the crystal unit.

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 (L4) by spreading, to achieve maximum power, not to exceed 500mW.

3. Deviation Adjustment

- A. Connect an audio generator to the microphone test terminals. The audio frequency should be set at 1KHz with a level of 12mv.
- 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 R51 for +/- 1.5 KHz deviation. R51 is located below the VCO shield can to the left of the crystal unit.