TRANSMITTER ALIGNMENT METHOD
GMRS 1600

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 CV401 trimmer capacitor such that the output frequency is equal to the channel frequency with a maximum error of +/- 200 Hz. CV401 is located below RV101 and RV101 is located below the VCO shield can.

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 (L101) by spreading or de-spreading, to achieve maximum power, not to exceed 1.2W.

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 RV101 for +/- 2.3KHz deviation. RV101 is located below the VCO shield.