

# BBOPR950DXD Transmitter Alignment Instructions

## **WARNING**

Any repairs or adjustments should be made under the supervision of a qualified radiotelephone technician.

### 1. Power Supply Voltage

The Power supply voltage should be set for 6.0VDC measured at the radio during transmit. Periodically check the power supply voltage during the alignment procedure.

### 2. Frequency Setting

- A. Couple a frequency counter or Communications Service Monitor to the antenna through an RF power attenuator (10 watt minimum rating, 20 dB minimum attenuation).
- B. Depress the PTT switch.
- C. Adjust the CTX1 trimmer capacitor such that the output frequency is equal to the channel frequency with a maximum error of +/- 200 Hz.
- D. Release the PTT switch.

### 3. Deviation Adjustment.

- A. Connect an audio generator to the microphone jack JIG. The audio frequency should be set at 1 KHz.
- B. Couple a Communications Service Monitor to the antenna through an RF power attenuator (10 watt minimum rating, 20 dB minimum attenuation). Set the monitor to read peak deviation.
- C. Depress the PTT switch.
- D. Adjust the audio generator level 100 mV rms.
- E. Adjust RVM1 for +/- 2.2 KHz maximum deviation. (With CTCSS tone)
- F. Confirm +/- 2.0KHz without CTCSS tone. (1.5KHz dev. 20dB up)
- G. Release the PTT switch.