

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.