

ALIGNMENT INSTRUCTIONS**WARNING**

Any repairs or adjustment should be made under the supervision of a qualified radio-telephone technician.

1. TRANSMITTER**1-1. Power Supply Voltage**

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

1-2. Frequency Setting

- A. Connect a frequency counter or Communications Service Monitor to the antenna connector through an RF power attenuates (10 watt minimum rating, 20 dB minimum attenuation).
- B. Depress the PTT switch.
- C. Adjust the C19 such that output frequency is equal to the channel. Frequency with a maximum error of ± 200 Hz.
- D. Release the PTT switch.

1-3. Output Power Alignment

- A. Set the power supply voltage for 6.0 V DC.
- B. Connect a communications Service Monitor or a wattmeter and dummy load to the antenna connector.
- C. Depress the PTT switch.
- D. Adjust the RV2 such that the power output is equal 2.0+ watt
- E. Release the PTT switch.

1-4. Deviation Adjustment

- A. Connect an audio generator to the microphone jack JIG. The audio frequency should be set at 1KHz
- B. Connect an FM deviation meter or communication Service Monitor to the antenna connector Through an RF power attenuates (10 watt minimum rating, 20 dB minimum attenuates). Set the monitor to read peak deviation.
- C. Depress the PTT switch.
- D. Adjust the audio generator level 100 mV rms.
- E. Adjust RV501 for 2.1 KHz maximum deviation.
- F. Release the PTT switch.

2. RECEIVER

Note : Insure that the proper channel has been selected before proceedings with the alignment procedure.

2-1. Power Supply Voltage.

The proper voltage for testing is 6.0 V DC.

2-2. Receiver Alignment

- A. Connect an RF signal generator or Communications Service Monitor to the antenna connect.
- B. Connect a SINAD meter and oscilloscope across the speaker terminals.
- C. Set the output level of the RF signal generator for -47 dBm the generator should be set for 1.5 KHz deviation of a 1 KHz tone.
- D. Set the audio output level for 0.6 Vrms by adjusting volume.
- E. Reduce the output level of the RF signal generator for produce a 12 dB SINAD indication.