Alignment instructions

TRANSMITTER

1. Power Supply Voltage

The Power supply voltage should be set for $4.5\ \mathrm{VDC}$ measured at the radio

during transmit. Periodically check the power supply voltage during the alignment procedure.

- 2. Frequency Setting
- A. Connect a frequency counter or Communications Service Monitor to the

antenna connector through an RF power attenuator (10 watt minimum rating,

- 20 dB minimum attenuation).
- B. Depress the PTT switch.
- C. Adjust the CT2 trimmer capacitor such that the output frequency is
 - equal to the channel frequency with a maximum error of \pm 200 Hz.
- D. Release the PTT switch.
- 3. Output Power Alignment.
- A. Set the power supply voltage for 4.5 VDC.
- B. Connect a Communications Service Monitor or a wattmeter and dummy

load

to the antenna connector.

- C. Depress the PTT switch.
- D. To be convinced for 0.45 Watt output power with a maximum error of ± 1.05

Watt.

- E. Release the PTT switch.
- 4. Deviation Adjustment.
- A. Connect an audio generator to the microphone jack JIG. The audio frequency

should be set at 1 KHz.

B. Connect an FM deviation meter or Communications Service Monitor to the

antenna connector 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 RV2 for +/- 2.4 KHz maximum deviation.(with ctcss tone)
- F. To be convinced +/- 1.8KHz without ctcss tone.(1.2KHz dev. 20dB up)
- g. Release the ptt switch.