

## 8. Alignment instructions

### WARNING

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

### TRANSMITTER

#### 1. Power Supply Voltage

The Power supply voltage should be set for 4.5 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 +/- 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 +/- 0.05 Watt.