

ALIGNMENT PROCEDURES

1. TRANSMITTING

1.1 TX VCO ADJUSTMENT

- a) Connect the DC voltmeter to the test point (TP2)
- b) Press the PTT Button
- c) Adjust L303
- d) Specification : $0.9V_{dc} \pm 0.3V @ CH1$

1.2 FREQUENCY ADJUSTMENT

- a) Connect the frequency counter to ANT point
- b) Adjust CT201
- c) Specifications : Tx Frequency $\pm 300Hz$

1.3 TX POWER CHECK

- a) Connect the deviation meter to the ANT point (RF impedance: 50Ω)
- b) Press the PTT button
- c) Check the TX Power
- d) Specification : ERP=20dBm

1.4 MAX DEVIATION ADJUSTMENT

- a) Connect the deviation meter to the ANT point
- b) Apply the audio signal 1KHz, 50m Vrms to the test point (P1-MIC input)
- c) Observe the clipped signal on the scope
- d) Adjust RV2
- c) Specification : 2.5KHz Dev $\pm 0.15KHz$

1.5 MODULATION SENSITIVITY ADJUSTMENT

- a) Connect the deviation meter to the ANT point
- b) Apply the audio signal 1KHz, 6m Vrms to the test point (P1-MIC input)
- c) Adjust RV2
- d) Specification : $1.5 \pm 0.1KHz$

1.6 CALL DATA MODULATION SENSITIVITY CHECK

- a) Press the call button and observe the deviation meter to check the deviation
- b) Specification : $1.8KHz \pm 0.5KHz$