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 : 0.9Vdc-/-0.3V@CH1

1.2 FREQUENCY ADJUSTMENT

a) Connect the frequency counter to ANT point
b) Adjust CT201
c) Specifications : Tx Frequency+/-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
e) Specification : 2.5KHz Dev+/-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±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 : 1.8KIIz+/-0.5KHz