

3. ALIGNMENT PROCEDURE

1. TRANSMITTING

1) TX VCO ADJUSTMENT

- A. Connect the DC volt meter to the test point 1.
- B. Press the PTT BUTTON.
- C. Adjust CV2.
LIMIT : 1.0VDC $\pm$ 0.3V at CH7

2) FREQUENCY ADJUSTMENT

- A. Connect the frequency counter meter to ANT point.
- B. Adjust CV1.
LIMIT : Tx Frequency $\pm$ 200Hz

3) TX POWER CHECK

- A. Connect the RF level meter to the ANT point (RF level meter impedance : 50 Ohm)
- B. Press the PTT button.
- C. Check the Tx POWER
LIMIT : < 500mW

4) MODULATION SENSITIVITY CHECK

- A. Connect the deviation meter to ANT point.
- B. Apply the audio signal 1Khz 8mWrms to the test point 7 (MIC input)
- C. Adjust SVR2.
LIMIT : 1.0KHz Dev. $\pm$ 0.15KHz

5) CALL DATA MODULATION SENSITIVITY CHECK

- A. Press the call button and observe the deviation meter to check the deviation.
LIMIT : 1.8KHz $\pm$ 0.5

- TO PRESS THE PTT BUTTON FOR THE TX MODE TESTING.

2. RECEIVING

1) RX VCO CHECK

- A. Connect the DC volt meter to the test point 1.
- B. Check the DC voltage.

LIMIT : 1.0Vdc +/-0.6V at CH 7.

2) QUAD. COIL ADJUSTMENT

- A. Connect the DC volt meter to the test point 3.
- B. Adjust the IFT1.

LIMIT : 1.6Vdc +/-0.2V

3) SENSITIVITY CHECK

- A. Connect the sinad meter to the test point 5.
- B. Reduce the RF output level of signal generator to get the 12dB of sinad

LIMIT : -116dBm +/-2dB

4) SEQUELCH ADJUSTMENT

- A. Connect the DC volt meter to the test point 15.
- B. Same set up as the sensitivity check.
- C. Adjust the SVR1 to get the DC changing point.

LIMIT : 12dB +/-2dB

5) SPEAKER OUTPUT LEVEL CHECK

- A. Connect the Audio level meter to the test point 5.
- B. Connect the 8Ohm load to the test point 5.
- C. Press the volume up button till its max. volume.
- D. Adjust the modulation deviation of RF signal generator.
- E. Check the clipping start deviation & level.

LIMIT : Clipping start deviation 1 +/-0.3KHz : level > 0dBm

- Press the Monitor button to disable the Rx power saving when the Rx is not stable.

3.OTHER CHECK

1) LOW BATTERY DETECT VOLTAGE CHECK

A. Change the voltage until the Battery icon is flashing on the LCD.

B. Check the voltage.

LIMIT : 4.7Vdc +/-0.3V