

Tune Procedure

1) TX VCO ADJUSTMENT

- a. connect the DC voltmeter at TP503
- b. press and hold PTT button
- c. adjust L509 to 1.0VDC +/-0.2V at CH1

2) FREQUENCY ADJUSTMENT

- a. connect the frequency counter meter to TP501
- b. adjust C501 to TX frequency +/-200Hz

3) TX POWER CHECK

- a. connect the RF level meter to the TP501
- b. press and hold PTT button
- c. check the TX power <1000mW at CH1 and <500mW at CH14

4) DEVIATION LIMITING AND MIC SENSITIVITY

- a. connect the deviation meter to TP501
- b. apply audio signal 1KHz 25mVrms to TP116
- c. press and hold PTT button
- d. adjust VR101 to 2.2KHz DEV +/-0.2KHz
- e. check mic sensitivity between 1mVrms and 10mVrms at 1.5KHz DEV

5) LOW PASS FILTER MEASUREMENT

- a. open R161 and connect 1UF capacitor and 150KOhm resistor in series to the point between C174 and C175
- b. input 500mVrms to the point of 1UF capacitor and measure the frequency response at IC103 pin 7

6) DCS MEASUREMENT

- a. connect the deviation meter to TP501
- b. press and hold PTT button
- c. adjust VR501 to 0.6KHz DEV +/-0.1KHz

- TO PRESS AND HOLD THE PTT BUTTON FOR TX MODE TESTING
- TO PRESS AND HOLD MENU AND +, THEN POWER UP FOR RADIO TEST MODE
- THE RADIO CAN TRANSMITTING WITHOUT TIMEOUT UNDER TEST MODE