

Alignment Procedure (K7GT4500)

1) TX VCO ADJUSTMENT

- a. connect the DC voltmeter at TP3
- b. press and hold PTT button
- c. adjust L10 to 1.0VDC +/-0.2V at CH1

2) FREQUENCY ADJUSTMENT

- a. connect the frequency counter meter to TP1
- b. press and hold PTT button
- c. adjust C53 to TX frequency +/-200Hz

3) TX POWER CHECK

- a. connect the RF level meter to the TP1
- b. press and hold PTT button
- c. check the TX conductive power <500mW

4) DEVIATION LIMITING AND MIC SENSITIVITY

- a. connect the deviation meter to TP1
- b. apply audio signal 1KHz 25mVrms to TP33
- c. press and hold PTT button
- d. adjust VR1 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 R71 and connect 1UF capacitor and 150KOhm resistor in series to the point between C81 and C87
- b. input 500mVrms to the point of 1UF capacitor and measure the frequency response at TP5

- 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