

## **Alignment Procedure (K7GT5720)**

### **1) TX VCO ADJUSTMENT**

- a. connect the DC voltmeter at TP103
- b. press and hold PTT button
- c. adjust L113 to 1.0VDC  $\pm 0.2V$  at CH1

### **2) FREQUENCY ADJUSTMENT**

- a. connect the frequency counter meter to TP101
- b. adjust C159 to TX frequency  $\pm 200Hz$

### **3) TX POWER CHECK**

- a. connect the RF level meter to the TP101
- 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 TP101
- b. apply audio signal 1KHz 25mVrms to TP113
- c. press and hold PTT button
- d. adjust VR1 to 2.2KHz DEV  $\pm 0.2KHz$
- e. check mic sensitivity between 1mVrms and 10mVrms at 1.5KHz DEV

### **5) LOW PASS FILTER MEASUREMENT**

- a. open R213 and connect 1UF capacitor and 150KOhm resistor in series to the point between C214 and C241
- b. input 500mVrms to the point of 1UF capacitor and measure the frequency response at TP106

ξ TO PRESS AND HOLD THE PTT BUTTON FOR TX MODE TESTING

ξ TO PRESS AND HOLD MENU AND +, THEN POWER UP FOR RADIO TEST MODE

ξ THE RADIO CAN TRANSMITTING WITHOUT TIMEOUT UNDER TEST MODE