

TK-360G/TK-370G/TK-378G TUNING PROCEDURES

1. Preparations for tuning the transceiver

Before attempting to tune the transceiver, connect the unit to a suitable power supply (without case). Wherever the transmitter is tuned, the unit must be connected to a suitable dummy load (i.e. power meter). The speaker output connector must be terminated with an 8 ohms dummy load and connected to an AC voltmeter and an audio distortion meter or a SINAD measurement meter at all times during tuning.

2. Transceiver tuning

2-1. Turn on the transceiver

2-2. Select the Ch.2

2-3. Press PTT and adjust the transmitter frequency 460.050MHz(-1), 480.050MHz(-2), 501.050MHz(-3), 418.050MHz(-4) $\pm 50\text{Hz}$ by TC-1.

2-4. Apply a 1000Hz tone with a 150mV(RMS) level to Mic input.

2-5. Press PTT and adjust the maximum deviation to 4.2kHz $\pm 0.1\text{kHz}$ by the VR2.

3. To place transceiver tuning mode

3-1. Press LAMP, TA buttons together and turn on. Hold LAMP and TA until "TEST" appears on LCD.

3-2. Press TA then appears a number that means level of tuning requirement on LCD.

3-3. Press LAMP, LO buttons together and "TUNE" appear on LCD. Set channel according to tuning requirement, as follows.

3-3-1.High and Low RF output power, Battery.

3-3-2.Fine QT.

3-3-3.Fine DQT.

4.Use LAMP, LO buttons together to toggle through tuning modes, and channel selector knob to adjust tuning requirement (1 to 256 appears on LCD). The tuning modes are as follows.

4-1.High RF output power, Press PTT and adjust for 4W.

4-2.Low RF output power, Press PTT again and adjust for 1W.

4-3.Fine QT, Press SCN and adjust for 0.75KHz deviation.

4-4.Fine DQT, Press DIAL and adjust for 0.75KHz deviation.

4-5.Battery, Press TA and set power supply voltage to 5.7V then tune channel selector knob to indicate TX LED(RED) blinking.

When "END" reached tune off power and data entrees memory. When "END" reached, but tuning not finished, pressing "LAMP" toggles to the required tuning mode.

Note: Previous tuning adjustment remain in memory, if power tuned off before "END" is reached.

Tune L12 and L18 in the TX-RX unit to obtain a 3dB or less waveform level through 450 to 470MHz(-1), 470 to 490MHz(-2), 490 to 512MHz(-3), 406 to 430MHz(-4).