

## TK-190 Tuning procedure

Before attempting to tune the transceiver, connect the unit to a suitable power supply. Whenever the transmitter tuned, unit must be connected to a suitable dummy load, unless the instruction specify otherwise. The speaker output connector must be terminated with a 4 Ohm dummy load at any time during the tuning and connected to an AC voltmeter and an audio distortion meter or a SINAD measurement at all the time during the tuning.

Power sw on when connect to PC and FPU(KPG-36) cable with Radio.  
Select to "Program" from PC display then select "Test Mode" then ENTER.  
"Tuning Mode" when Select to F10.

### 1 Transmitter section

#### 1.1R.F High Power

- a. When Select to "R.F High Power (Test)" then Enter.
- b. Same as "a" when Select to  
Lower frequency, Center frequency, Higher frequency then Enter.
- c. Select to Numbers for the R.F High Power then Enter.

#### 1.2R.F Low Power

- a. When Select to "R.F Low Power" then Enter.
- b. Select to Lower frequency, Center frequency, Higher frequency.
- c. Select to Numbers for R.F Low Power then Enter.

#### 1.3Max, Deviation

- a. When Select to "Max, Deviation" then Enter.
- b. Select to Numbers for the Max, Deviation then Enter.

#### 1.4QT Deviation

- a. When Select to "QT Deviation" then Enter.
- b. Select to Numbers for the QT Deviation then Enter.

#### 1.5DQT Deviation

- a. When Select to "DQT Deviation" then Enter.
- b. Select to Numbers for the QT Deviation then Enter.

#### 1.6DTMF Deviation

- a. When Select to "DTMF Deviation" then Enter.
- b. Select to Numbers for the DTMF Deviation then Enter.

#### 1.7MSK Deviation

- a. When Select to "MSK Deviation" then Enter.
- b. Select to Numbers for the MSK Deviation then Enter.

### 2 Receiver section

#### 2.1RX Sensitivity

- a. When Select to "Sensitivity"(Test)" then Enter.
- b. Same as "a" when Select to  
Lower frequency, Center frequency, Higher frequency  
Then Enter.

#### 2.2Squelch Tight.

- a. When Select to "Squelch Tight" then Enter.
- b. Same as "a" when Select to  
Lower frequency, Center frequency, Higher frequency  
Then Enter.

2.3 Squelch Open

- a. When Select to "Squelch Tight" then Enter.
- b. Same as "a" when Select to  
Lower frequency, Center frequency, Higher frequency  
Then Enter.

2.4 Select "Alt" when "Tuning mode" done.