Adjustment Description

The radio can be adjusted with PC programming software or by manual adjustment. Manual adjustment procedure of TC-600 is shown as follows. (Refer to "Model Set Mode" and "Manual Adjust Mode" in *Software Specification section*.)

Instrument:

Radio Communication Test Set 1 set
Scanner 1 set
3A/10V Power Supply 1 set
Digital Voltmeter 1 set
3A Ammeter 1 set

Adjustment:

1. Initialization

It's necessary to set the model and initialize the radio before adjustment because there is no needed information in EEPROM when the radio is manufactured. Please refer to the "Model Set Mode" in *Software Specification* section for details.

2. Adjustment

Some items can be adjusted in Conventional Mode and the others in Manual Adjust Mode. Turn on the power, the radio enters the Conventional Mode. If Manual Adjust Mode is enabled, turn on the power while holding down PTT and MONI key simultaneously, the radio enters Manual Adjust Mode in 2 seconds. (Refer to "Manual Adjust Mode" in *Software Specification* section.)

VCO

Item	Condition	Measurem	nent	Adjustment		Specification
	Condition	Test Instrument	Terminal	Part	Method	/Remarks
1.	1.power supply voltage 7.2V					
2.Transmit VCO Lock Voltage	1.TX High. Turn to CH14 in manual adjust mode and press PTT.		CV	TC1	3.0V±0.1V >0.7V	
VCO Lock Voltage	1.RX High. Turn to CH14 in manual adjust mode. 2.RX Low. Turn to CH13 in manual adjust mode.			TC2	2.6V±0.1V	

Note: The radio transmits no matter whether VCO is locked or unlocked. Enter the Manual

RECEIVER: (Enter the Manual Adjust Mode)

Item		Measurement		Adjust	Cassification	
	Condition	Test Instrument	Terminal	Part	Method	Specification /Remarks
	1.RX Center. Turn to CH12 in manual adjust mode.		ANT . TP2	TC3 TC4 TC5	Adjust the waveform to the top, and the top is flat, the bandwidth is about 20MHz, the sign of RX central frequency is at the center of the waveform.	
2.Sensitivity	1.RX Center. Turn to CH12 in manual adjust mode. 2. RX Low. Turn to CH13 in manual adjust mode. 3.RX High. Turn to CH14 in manual	a-tion Test Set SSG output: -118dBm MOD: 1KHz DEV:	ANT Speaker Jack		Check	SINAD: 12dE or higher
	adjust mode. 1.RX Center. Turn to CH2 in manual adjust mode. Adjust by PTT or Function key.	ation Test Set	ANT		Level 9 Adjust to just close the squelch.	Adjust to squelch level
	2.RX Center. Turn to CH3 in manual adjust mode. Adjust by PTT or Function key.	ation Test Set	Speaker Jack		Level 3 Adjust to just close the squelch.	Adjust to squelch level

Transmitter

Item	Condition	Measurement		Adju	Specification	
		Test Instrument	Terminal	Parts	Method	/Remarks
1.Transmit frequency	1.TX Center. Turn to CH12 in manual adjust mode and press PTT.	Communic	ANT	TC6	Adjust it to center frequency	Error≤±250Hz
2.Max. Deviation	1.TX Center. Turn to CH12 in manual adjust mode and press PTT.	Set	ANT MIC Jack	VR2	Adjust deviation to: 4.2kHz±100Hz(W) 2.2kHz±100Hz(N)	
3. Modulation Sensitivity	1.TX Center. Turn to CH <mark>12</mark> in manual adjust mode and press PTT.	Radio Communic a-tion Test Set FILTER: 0.3-3.4KHz AF: 1KHz 13±3mV	ANT MIC Jack		Check deviation: 2.2KHz-3.6KHz	
4. CTCSS Balance	1. TX Center. CTCSS: 67.0Hz. Turn to CH4 in manual adjust mode. 2. TX Center. CTCSS: 250.3Hz. Turn to CH4 in manual adjust mode and press PTT.	Radio Communic a-tion Test Set		VR3	Adjust VR3, deviation tested on condition 1 and condition 2 are consistent, the difference≤200Hz	CICSS
	1. TX Center. CTCSS: 67.0Hz. Turn to CH4 in manual adjust mode. Adjust by PTT or Function key. 1. TX Center. CDCSS: 023. Turn to CH5 in manual adjust mode. Adjust by PTT or Function key.	Radio Communic a-tion Test Set LPF: 300Hz	ANT		0.65kHz±100Hz(W) 0.35kHz±100Hz(N)	to:

DTMF	TX center, turn to CH15 in manual adjust mode	a-tion Test	ANT	Observe	Deviation: ≤3.5KHz(W) ≤2.5KHz(N)	
8. Low Battery Alert Level	Turn to CH1 in manual adjust mode. Adjust the power supply voltage to 5.5V. Adjust by PTT or Function key. **Tenction key*** **Tenction key** **Tenction k	Digital Voltmeter			Adjust the level to make LED just flash.	

Note: In Manual Adjust Mode, when channel selector knob is rotated to CH1-CH16, MIC jack can't connect with external cables. After adjustment is completed, short out the two SELF points and then turn the power on, the radio enters Model Set Mode. Then press PTT to disable the manual adjust mode.