

## QP-650V1 Adjustment Description

- ◆ The radio can be adjusted by manual adjustment. Manual adjustment procedure is as follow.

Instrument:

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

- ◆ Adjustment:

### 1. Initializing:

It's necessary to initialize the radio before alignment because there is no needed information in EEPROM when the radio is manufactured.

### 2. Adjustment:

#### 2.1 manual mode

Some items can be adjusted in conventional communication mode and the others in manual adjust mode. Turn on the power, the radio enters conventional communication mode. If manual adjust mode is enabled, turn to CH1 and turn on the power while holding down PTT and MONI simultaneously, then release the two buttons after the orange light flashes twice, next pressing the PTT button and release it until the red LED flashes two times. the radio enters manual adjust mode

#### 2.2 Switch manual adjustment item

When the radio enters manual mode, then turn the channel switch to change the test items while holding down PTT and MONI simultaneously.

Channel 2 is Lower Power

Channel 3 is Higher Power

#### 2.3 Adjustment methods

Item	Condition	Measurement		Adjustment		Specification /Remarks
		Test equipment	Terminal	Parts	Method	
1. Transmit frequency	Turn to CH1 in conventional mode and press PTT.	Radio Communication Test Set	ANT	VR1	Adjust it to center frequency	Error ≤±250Hz
2. low power.	Turn to CH1 in manual low power adjust mode. (low frequency)	Radio Communication Test Set	ANT		PTT key (increase) SK1 key (decrease)	Adjust power to:1W±0.2W

3. low power	Turn to CH2 in manual adjust mode. (mid1 frequency)	Radio Communication Test Set	ANT		PTT key (increase) SK1 key (decrease)	Adjust power to: $1W \pm 0.2W$
4. low power	Turn to CH3 in manual adjust mode. (mid2 frequency)	Radio Communication Test Set	ANT		PTT key (increase) SK1 key (decrease)	Adjust power to: $1W \pm 0.2W$
5. low power	Turn to CH4 in manual adjust mode.(mid3 frequency)	Radio Communication Test Set	ANT		PTT key (increase) SK1 key (decrease)	Adjust power to: $1W \pm 0.2W$
6..low power	Turn to CH51 in manual adjust mode.(high frequency)	Radio Communication Test Set	ANT		PTT key (increase) SK1 key (decrease)	Adjust power to: $1W \pm 0.2W$
7. High power	Turn to CH1-CH5 independently in manual high power adjust most. (5 point frequency)	Radio Communication Test Set	ANT		PTT key (increase) SK1 key (decrease)	Adjust power to: $5.0W \pm 0.2W$