ADJUSTMENT

Required Test Equipment

- 1. Stabilized Power supply
- 1) The supply voltage can be changed between 5V and 20V, and the current is 3A or more.
- 2) The standard voltage is 7.2V.
- 2. DC ammeter
- 1) Class 1 ammeter (17 ranges and other features).
- 2) The full scale can be set to either 300mA or 3A
- 3) A cable of less internal loss must be used.
- 3. Radio Communication test set

Frequencies of up to 1GHz or so can be measured, and measurements are highly stable and accurate (0.2ppm or so).

4. Digital Voltmeter

1) Voltage range: FS=18V or so. 1) Input resistance: 1M

or more. ADJUSTMENT FREQUENCY LIST

СН	TX Frequency (MHz)	RX Frequency(MHz)
Center	450.185	450.185
Low	430.185	430.185
High	469.985	469.985

Remarks

- Center frequency range from 450.185-450.560MHz (25kHz channel spacing)
- Low frequency range from 430.185-430.560MHz (25kHz channel spacing)
- High frequency range from 469.610-469.985MHz (25kHz channel spacing)

VCO

Item	Condition	Measurement		Adjustment		Specifications /
		Test equipment	Terminal	parts	method	Remarks
1.Setting	1.Power supply					
	voltage Battery					
	terminal: 7.2V					
2.VCO lock	1.CH: TX high	Digital voltmeter	CV	C304	3.2V	± 0.1V
voltage	2.CH: TX high			C305	3.2V	± 0.1V
	3.CH: TX high				Check	More than 1.2V
	4.CH: TX high					

Receiver Section

Item Condition		Measurement		Adjustment		Specifications /
		Test equipment	Terminal	parts	method	Remarks
1.AF level	CH: RX center TEST output:-47dB m AFGen1 Frea: 1kHz AFGen1 To: ± 3kHz	Radio Communication Test Set	ANT		Check MAX AF level	More than 0.5W
2.Sensitiviity	CH: RX center CH: RX low CH: RX high TEST output:-119dB m AFGen1 Frea: 1kHz AFGen1 To: ± 3kHz Filter1: 300Hz HPF Filter2: 3kHz LPF				Check	SINAD: more than 12dB
3. Squelch Level	CH: RX center Level 9 TEST output: -116dBm Level 3 TEST output: -121dBm				Adjust to close the squelch.	The squelch must be closed.

Transmitter section

Item Condition		Measurement		Adjustment		Specifications /
		Test equipment	Terminal	parts	method	Remarks
1.Transmit frequency	CH: TX center PTT: ON	Radio Communication Test Set	ANT	VR1	Adjust to center frequency	Within ± 100Hz
2.Power	CH: TX center Battery terminal: 7.2V PTT: ON				Check	3.8W ± 0.2W
3. MAX DEV	CH: TX center AFGen1 Freq: 1kHz AFGen1 Lv1:100mV PTT: ON			VR2	Adjust it to ± 4.2kHz	± 2.2kHz~3.6kHz
4.MIC SENX	CH: TX center AFGen1 Freq: 1kHz AFGen1 Lv1:10mv PTT: ON	Radio Communication Test Set	ANT		Check MAX AF level	More than 0.5W
5.CTCSS/DC S DEV	CH: TX center CTCSS: 67Hz DCS: 023			VR3	Adjust it to ± 0.75kHz	± 50Hz