

Adjustment Description

I. Required Test Instrument

1. Regulated power supply 1 set
 - 1) Adjustment range: 12~15 VDC; output current: 3 A or more
 - 2) Standard output voltage: 13.8 VDC
 - 3) The output voltage is stable, with little fluctuation.
2. Ammeter 1 set
3. Digital voltmeter 1 set
4. Radio communication test set 1 set (with duplex adjusting function)

II. Test and Adjustment

1. Preparation: place the board on the testing clip (Note: ensure good contact between test terminals and the clip), and power on.

2. Power supply

Item	Condition	Measurement		Adjustment		Specification /Remarks
		Test Instrument	Terminal	Part	Method	
DC output voltage		Digital Voltmeter	DC output terminal	Adjustable Resistor	Use ceramic adjuster to adjust adjustable resistor till lock the voltage within requirement.	13.8±0.2V

3. Transceiver's Power Supply

Item	Condition	Measurement		Adjustment		Specification /Remarks
		Test Instrument	Terminal	Part	Method	
Transceiver's Power Supply		Digital Voltmeter	VDD	VR1	Use ceramic adjuster to adjust VR1 till lock the voltage within requirement.	8.0 ± 0.2V

4. Relay Status (Note: before adjustment, make sure the good connection of the

antenna or load)

Item	Condition	Measurement		Adjustment		Specification/ Remarks
		Test Instrument	Terminal	Part	Method	
Operation Frequency	Computer operation system: WIN98SE /WIN2000 Programming software: TC365E		RJ45 Programming port			Receiver: 1CH 455.0125MHz 2CH 455.0125MHz CTCSS : 67.0Hz 3CH 455.0125MHz CDCSS : 025 Transmitter: 1CH 465.0125MHz 2CH 465.0125MHz CTCSS : 67.0Hz 3CH 465.0125MHz CDCSS : 025
Relay frequency deviation	Adjust to CH1 and enter duplex mode. Transmitter connects with RF in port; receiver with Dual out port. Adjust RF GEN to 455.0125MHz.	Radio communication test set BPF:0.3~3KHz AF OUT: 1KHz/150mV	Antenna	VR3	Use ceramic adjuster to adjust VR3 and ensure the relay frequency deviation within requirement.	Frequency deviation: 3.0±0.2KHz
Tx Power	Adjust to CH1, press PTT key on handheld MIC to transmit (or check Tx power in duplex status)	Radio communication test set	Antenna		Check	Power: 4.5±0.5W

Duplex re. sensitivity	Adjust to CH1, and then duplex mode	Radio communication test set BPF:0.3~3KHz AF OUT: 1KHz/150mV	Antenna		Check	Sensitivity when turning on transceiver: -119 ± 3dBm Sensitivity when turning off: -120 ± 3dBm
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