

ADJUSTMENT					
Adjustment	No.	Adjustment Condition & Turning	Value	Ref.No.	CK.Point
Preparation	1	Output voltage : 7.5 V DC Current capacity : 3 A or more			
Set Mode		Enter the Set Mode by connect the cloning terminal to GND and turn power ON. Operation key : key "16" Adjust key : key "UP" and "DOWN"			
Lock Voltage		Select the channel 16 on RX side and check the lock voltage for 1.8+/-0.5V.	1.8+/-0.5 V		CP1
		Select the channel 16 on TX side And check the lock voltage for 1.6+/-0.5V	1.6+/-0.5 V		CP1
Adjusting The Reference Crystal	2	Select "Fr" at set mode and then set the TX for 156.800MHz+/-500Hz in the bandwidth. Transmission channel: ch 16 Frequency :156.800MHz +/-500Hz	+/-500Hz	UP/DOWN keys	ANT
Adjusting and check TX output	3	Connect the power meter to the antenna terminal and select channel 16. Enter Set Mode and set the power as below.			
		POWER HI ("Po", "H") 5.0 W POWER MID ("Po", "M") 3.0W POWER LOW ("Po", "L") 0.8W POWER E-LOW("Po", "ML") 0.5W	5.0W 3.0W 0.8W 0.5W	UP/DOWN keys	ANT

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Adjusting and Check the Modulation	4	Check the followings condition in bandwidth.			
		TX HI POWER 5W type			
		POWER HI 4.0 W~6.0 W	4.0~6.0W		ANT
		POWER MID 2.2 W~4.0 W	2.2~4.0W		
		POWER LOW 0.6 W~1.0 W	0.6~1.0W		
		TX HI POWER 1W type			
		POWER HI 0.6 W~1.0 W	0.6~1.0W		ANT
		POWER MID 0.3 W~0.6 W	0.3~0.6W		
		Connect an attenuator to the antenna terminal and set to the conditions below for CH16.			
		HPF OFF			
		LPF 20KHz			
		De-emphasis OFF			
		Level Meter (P-P)/2			
		Add the following signal to audio generator and connect it to the MIC terminal.			
		35mV at 1KHz			
		Enter Set Mode and select "dE" then set deviation frequency for +/-4.3 KHz.	+/-4.3KHz	UP/DO WN keyS	ANT
		Add 3.5 mV 1KHz signal to audio generator and connect it to MIC terminal, then check the modulation for 2.5~3.5KHz.	2.5~3.5 KHz		

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Check TX S/N	5	Connect an attenuator to the antenna terminal, and set to the condition below for channel 16. HPF=50Hz, LPF= 20KHz, De-emphasis OFF Level Meter (P-P)/2 Apply a 1KHz signal and transmit 3.5KHz deviation then check that the TX S/N in the Bandwidth is more than 40dB.	More than 40dB		ANT
Checking Spurious	6	Connect a spectrum analyzer to the ANT terminal through an attenuator. Set the transceiver to TX and check the spurious for value below in the bandwidth. #01,02 more than 65dBc (HIPWR) #04~09 Less than 0.25uW	More than 65dB Less than 0.25uWdB		
Checking RX	7	Connect the signal generator and check the condition below. FREQ 156.8MHz (CH16) MOD FREQ 1KHz DEV +/-3.5KHz LEVEL +10dBu Connect an 8 ohm load and a distortion meter to the external speaker terminal. Check it for 12dB SINAD condition. #01,02 less than -9dBu #04~09 Less than -4dBu Check 12 dB SINAD for RX in the bandwidth. #01,02 Less than -9dBu #04,09 Less than -4dBu	Less than -9dBu Less than -4dBu		External Speaker

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Checking AF output	8	Set the signal generator output level to +60dBu. Adjust the AF volume until the distortion meter reads 10%. Check the AF output for more than 0.30W.	More than 0.3W		External Speaker
Checking RX S/N	9	Set the signal generator output level to +40dBu same as the receive adjustment above. AF output is 50% of the rated value. Check that the S/N in the bandwidth is more than 40dB.	More than 40dB		External Speaker
Adjusting the squelch	10	Set the signal generator output level to -3dBu same as receiving adjustment. Enter Set Mode and select "Sq", use "UP" and "DOWN" keys until level meter shows constant value. Then raise the squelch level using UP key until squelch closes once, then lower value, again using DOWN key until the squelch opening point.	Level Meter disappear	UP/DOWN keys	External Speaker
Adjusting S-METER	11	Set the signal generator output level to 0 dBu same as receiving adjustment. Enter Set Mode and select "SL", set the S-METER pushing "UP" and "DOWN" keys.		UP or DOWN	

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Checking Howling	12	Set the signal generator output level to +60dBu as in RX adjustment, and for non-modulation. Next, set the internal speaker for operation to check that howling does not accrue.	Howling does not accrue		External speaker
Checking Weather Alert Decoder	13	Apply to versions written "WX" at "ADJUSTMENT" item in the classified list Set the signal generator for following conditions. FREQ 163.275MHz(WX10) MOD FREQ 1050Hz DEV +/-3.5KHz LEVEL +30dBu Enter Set Mode and select ON for WX ALERT, then WX10 will receive. To hear BEEP sound, check the "ALT" flickering on LCD.	BEEP "ALT" flicker ing		Ex/In Sp LCD