

1 PLL ADJUSTMENTS

ADJUSTMENT	ADJUSTMENT CONDITION	MEASUREMENT		VALUE	ADJUSTMENT POINT	
		UNIT	LOCATION		UNIT	ADJUST
LOCK VOLTAGE	1 • Operating channel : CH16 • Receiving	MAIN	Connect a digital multi-meter or oscilloscope to the check point CP1	2.6V	MAIN	L12
	2 • Operating channel : CH116 • Receiving			2.8V		Verify
REFERENCE FREQUENCY	1 • Operating channel : CH16 • Output power : Low • Connect an RF power meter or a 50 Ω dummy load to the antenna connector. • Transmitting	Rear Panel	Loosely couple the frequency counter to the antenna connector.	156.800MHz	MAIN	C85

2 TRANSMITTER ADJUSTMENTS

ADJUSTMENT	ADJUSTMENT CONDITION	MEASUREMENT		VALUE	ADJUSTMENT POINT	
		UNIT	LOCATION		UNIT	ADJUST
OUTPUT POWER	1 • Operating channel : CH16 • Output power : High	Rear Panel	Connect an RF power meter to the antenna connector.	26W	MAIN	R79
	2 • Operating Channel : CH16 • Output power : Low			0.4-1.2W		Verify
FREQUENCY DEVIATION	1 • Operating Channel : CH16 • Output power : Low • Connect an audio generator to J2(pin5) with an AC millivolt-meter and set as: Frequency : 1 KHz Level : 550 mV • Set an FM deviation meter as: HPF : OFF LPF : 20 KHz De-emphasis : OFF Detector : (P-P)/2 • Transmitting	Rear Panel	Connect an FM deviation meter to the antenna connector through an attenuator.	±3KHz	MAIN	R106

3 RECEIVER ADJUSTMENTS

ADJUSTMENT	ADJUSTMENT CONDITION	MEASUREMENT		VALUE	ADJUSTMENT POINT	
		UNIT	LOCATION		UNIT	ADJUST
SENSITIVITY	1 • Operating Channel : CH16	MAIN	Connect a DC Voltmeter to the check point CP2	Maximum voltage	MAIN	C10
	• [SQUELCH]control : Max. counterclockwise					C20 C26
	• Connect an SSG to the antenna Connector and set as: Frequency : 156.800MHz Level : 10 uV* (-97 dBm) Modulation : 1 KHz Deviation : - 3.5 KHz					
	• Receiving					