IC-M1V ADJUSTMENT PROCEDURES

5-1 PLL AND TRANSMITTER ADJUSTMENTS

Select an operating using $[\uparrow] / [\downarrow]$ keys, then set specified value using $[\leftarrow] / [\rightarrow]$ keys on the connected computer keyboard.

ADJUSTMENT		ADJUSTMENT CONDITION	MEASUREMENT		VALUE	ADJUSTMENT
			UNIT	LOCATION		
PLL LOCK VOLTAGE	1	 Operating channel		Use the adjustment program.	2.3–3.3 V	Verify
	2	 Operating channel : ch 16 Connect the RF power meter or 50 Ω dummy load to the antenna connector. Transmitting Push "Reload" bottun on the adjustment program. 		Use the adjustment program.	2.3–3.3 V	Verify
PLL REFERENCE FREQUENCY	1	 Operating channel : ch 16 Connect the RF power meter or 50 Ω dummy load to the antenna connector. Transmitting Push "Reload" bottun on the adjustment program. 	Top panel	Loosely couple the frequnecy counter to the antenna connector.	156.800000 MHz	Use the adjust- ment program.
OUTPUT POWER	1	 Operating channel ch 16 [H/L] switch : High Transmitting Push "Reload" bottun on the adjustment program. 	Top panel	Connect the RF power meter to the antenna connector.	5.0 W	Use the adjust- ment program.
	2	 [H/L] switch : Low Transmitting Push "Reload" bottun on the adjustment program. 			1.0 W	Use the adjust- ment program.
	3	 [H/L] switch : Extra low Transmitting Push "Reload" bottun on the adjustment program. 			0.5 W	Use the adjust- ment program.
FM DEVIATION	1	 Operating channel : ch 16 [H/L] switch : High Connect the audio generator to the [MIC] jack and set as: 1.0 kHz/40 mV rms. Set the FM deviation meter as: HPF : OFF LPF : 20 kHz De-emphasis: OFF Detector : (P-P)/2 Transmitting Push "Reload" bottun on the adjustment program. 	Top panel	Connect the FM deviation meter to the antenna con- nector through the attenuator.	±4.3 kHz	Use the adjust- ment program.

5-2 RECEIVER ADJUSTMENT

Select an operating using $[\uparrow] / [\downarrow]$ keys, then set specified value using $[\leftarrow] / [\rightarrow]$ keys on the connected computer keyboard.

ADJUSTMENT		ADJUSTMENT CONDITION	MEASUREMENT		VALUE			
			UNIT	LOCATION	TALOL	Abooonii		
RX SENSITIVITY	1	 Operating channel : ch 16 Connect a standard signal gener- ator to the antenna connector and set as: Frequency : 156.800 MHz Level : 3.2 µV* (-97 dBm) Modulation : 1 kHz Deviation : ±3.5 kHz Receiving Push "Reload" bottun on the adjustment program. 		Use the adjustment program.	Maxmum level	Use the adjust- ment program.		
		CONVENIENT: The BPF T1–BPF T4 can be adjusted automatically. ①-1: Set the cursol to "BPF ALL" on the adjustment program and then push [ENTER] key. ①-2: The connected PC tunes BPF T1–BPF T4 to peak levels. or ②-1: Set the cursol to one of BPF T1, T2, T3, or T4 as desired. ③-2: Push [ENTER] key to start tuning. ③-3: Repeat ②-1 and ②-2 to perform additional BPF tuning.						
SQUELCH LEVEL	2	 Operating channel : ch 16 No RF signals are applied to the antenna connector. Receiving Set the cursol to "SQL" on the adjustment program and push [ENTER] key, then push [ENTER] key again. Operating channel : ch 16 Connect a standard signal gener- ator to the antenna connector and set as : Level : 1.3 μV* (-105 dBm) Modulation : OFF Receiving Push [ENTER] key on the key- board. 	NOTE:	Squelch level adjustm ment program.	ent is adjusted automati	cally by the adjust-		

*This output level of a standard signal generator (SSG) is indicated as SSG's open circuit.