

# ADJUSTMENT ALM-203T/E

## < Preparation >

Unless otherwise specified, set control as follows

BAND SWITCH	A	OFF SET CH	OFF
DUP/SIMP	SIMP	HI/LOW	HI
OFF SET	⊖	ATT (ALM-203T)	OFF
KEY LOCK	OFF	TONE (ALM-203E)	OFF
PTT STOP	OFF	SQL VR	MIN

## NOTE:

- When adjusting the trimmer or coils, use a non inductive tuning tool.
- When adjusting the RX section, never transmit to prevent SSG damage.
- Connect MIC connector as Fig. 1.
- The SSG output level is indicated as open circuit.
- DC power supply: 9.6V

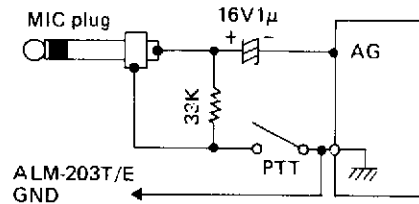


Fig. 1

## < VCO ADJUSTMENT >

Item	Condition	Measurement		Adjustment				Specification/Remarks
		Test equipment	Unit	Terminal	Unit	Part	Method	
VCO	(1) Receive (T/E) FREQ: 144.000	DC-VM	RF PWB	CN2-2	RF PWB	L8	Adjust	1.8V ± 0.2V
	(2) Transmit HI/LOW: LOW FREQ: 144.000	Power-meter DC-VM				L11		2.5V ± 0.2V

## < TX ADJUSTMENT >

Item	Condition	Measurement			Adjustment			Specification/Remarks
		Test equipment	Unit	Terminal	Unit	Part	Method	
1. Power output adjustment	(T/E) FREQ: 145.000 ANT: Connect a power meter	Power meter 5 ~ 10W	RF PWB	ANT.	RF PWB	L13, 14 L15, 16 CV1 CV2 CV3	Max. Repeat	2.2W or more
2. Frequency adjustment	(T/E) FREQ: 145.000 HI/LOW: HI	f. counter		ANT.	MAIN PWB	CV1	Adjust	145.000MHz ± 50Hz
3. Modulation adjustment	(T/E) FREQ: 145.000 EXT MIC terminal AG: 1KHz 150mV	Linear-Detector		ANT.	MAIN PWB	VR3	Adjust	DEV 5KHz ± 0.2KHz
4. Tone adjustment	(T only) FREQ: 145.600 DUP/SIMP: DUP SUB-T: A or B Any frequency	Linear-Detector		ANT.	MAIN PWB	VR4	Adjust	DEV 0.6KHz ± 0.1KHz
5. Touch tone adjustment	(T only) FREQ: 145.000 Key board switch	Linear-Detector		ANT.	MAIN PWB	VR5	Adjust	DEV 3.5KHz ± 0.2KHz
6. Tone-burst adjustment	(E only) FREQ: 145.000 Tone Button: ON	Linear-Detector		ANT.	MAIN PWB	VR4	Adjust	DEV 3.5KHz ± 0.2KHz
		f. counter					Check	1750 ± 30Hz

## < RX ADJUSTMENT >

Item	Condition	Measurement			Adjustment			Specification/Remarks
		Test equipment	Unit	Terminal	Unit	Part	Method	
Sensitivity	(1) (T/E) FREQ: 145.000 SSG: +6dbμ PTT STOP: ON	SSG DC-VM	MAIN PWB	D15 (HOT)	RF PWB	L1, 2 L3, 4 L6	Max. Repeat Max.	(20db NQL) -4dbμ or more
	(2) (T/E) SSG DEV: 5KHz f: 1KHz				RF PWB	L5	Max.	
	(3) (T/E) SSG DEV: 3.5KHz f: 1KHz	SSG AF-VM Oscilloscope 8Ω Dummy Load		EXT. SP	MAIN PWB	L1	Max.	