

## ■ ADJUSTMENT (DJ-160T/E)

### 1. Transmitting Unit (DJ-160T)

Item	Adjustment Point	Adjustment Method	Spec
1. Frequency adjustment	TC304 (RF PCB)	Set the unit in the transmission mode at 146.03MHz and adjustment TC304. (Transceiver tester, counter)	146.03MHz $\pm$ 50Hz
2. TX Power adjustment	VR301 (RF PCB) (Hi Power) VR302 (RF PCB) (Lo Power)	Adjustment VR301 so that TX power becomes 3W at 146.03MHz. Adjustment VR302 so that TX power becomes 300mW at 146.03MHz.	3.0W $\pm$ 0.1W 300mW $\pm$ 50mW
3. Modulation degree adjustment	VR204 (IF PCB)	Input a signal of 1kHz/50mV into The Mic jack transmitting at 146.03MHz and adjust VR204 so that you obtain 4.7kHz/Dev in the transmission mode.	4.8kHz $\pm$ 0.1kHz
4. Subaudible tone	VR203 (IF PCB)	Adjust 88.5kHz by VR203 so that you obtain 800Hz/Dev.	800Hz $\pm$ 100Hz
5. DTMF	VR205 (IF PCB)	Push <b>[1]</b> in the transmission mode and adjust VR203 so that you obtain 3.1kHz/Dev.	3.1kHz $\pm$ 0.1kHz

### 2. Receiving Unit (DJ-160T)

Item	Adjustment Point	Adjustment Method	Spec
1. VCO P/D Voltage adjustment	L106 (VCO)	Adjust L106 so that P/D voltage is 2.0V at 146.03MHz (DC Voltmeter) in the transmission mode.	2.0V
2. Detection Coil adjustment	L202 (IF PCB)	Input 1kHz, 3.5kHz/Dev. +66dB $\mu$ at 146.05MHz and adjust L202 so that detection power becomes maximum.	
3. VHF FRONT END adjustment	L306, L308, L309, TC305, L311, L312 (RF PCB)	At 146.03MHz and adjust L306, L308, L309, TC305, L311, and L312, so that 12dB SINAD sensitivity becomes maximum.	under -9dB $\mu$
4. S-meter adjustment	VR202 (IF PCB)	Input a signal of 17dB $\mu$ from transceiver tester at 145.03MHz Turn VR202 so that Full-bar begins to tight.	17dB $\mu$ $\pm$ 1dB $\mu$

## 1. Transmitting Unit (DJ-160E)

Item	Adjustment Point	Adjustment Method	Spec
1. Frequency adjustment	TC304 (RF PCB)	Set the unit in the transmission mode at 145.03MHz and adjustment TC304. (Transceiver tester, counter)	145.03MHz $\pm$ 50Hz
2. TX Power adjustment	VR301 (RF PCB) (Hi Power) VR302 (RF PCB) (Lo Power)	Adjustment VR301 so that TX power becomes 3W at 145.99MHz. Adjustment VR302 so that TX power becomes 300mW at 145.99MHz.	3.1W $\pm$ 0.1W 300mW $\pm$ 50mW
3. Modulation degree adjustment	VR204 (IF PCB)	Input a signal of 1kHz/50mV into The Mic jack transmitting at 145.03MHz and adjust VR204 so that you obtain 4.7kHz/Dev in the transmission mode.	4.7kHz $\pm$ 0.1kHz
4. Subaudible tone	VR203 (IF PCB)	Transmit at 145.03MHz and adjust VR203 to obtain a frequency modulation of 3.0kHz, making sure that tone burst 1750Hz within a range of 1750Hz $\pm$ 20Hz.	3.0kHz $\pm$ 0.5kHz
5. DTMF	VR205 (IF PCB)	Push <input type="checkbox"/> in the transmission mode and adjust VR205 so that you obtain 3.1kHz/Dev.	3.1kHz $\pm$ 0.1kHz

## 2. Receiving Unit (DJ-160E)

Item	Adjustment Point	Adjustment Method	Spec
1. VCO P/D Voltage adjustment	L106 (VCO)	Adjust L106 so that P/D Voltage is 2.0V at 145.03MHz (DC Voltmeter) in the transmission mode.	2.0V $\pm$ 0.1V
2. Detection Coil adjustment	L202 (IF PCB)	Input 1kHz, 3.5kHz/Dev. +66dB $\mu$ at 145.03MHz and adjust L202 so that detection power becomes maximum.	
3. VHF FRONT END adjustment	L306, L308, L309, TC305, L311, L312 (RF PCB)	At 145.95MHz and adjust L306, L308, L309, TC305, L311, and L312, so that 12dB SINAD sensitivity becomes maximum.	under -9dB $\mu$
4. S-meter adjustment	VR202 (IF PCB)	Input a signal of 17dB $\mu$ from transceiver tester at 145.95MHz Turn VR202 so that Full-bar begins to light.	17dB $\mu$ $\pm$ 1dB $\mu$