■ ADJUSTMENT

Item	Adjustment Point	Adjustment Method	Spec
5 V line voltage	VR605	Turn VR605 so that the voltage of 16 pin of IC601 should be 5.1 V.	5.1 V±0.1 V
VCO P/D voltage	L401 (RX VCO) (VHF) L501 (TX VCO) (VHF) L406 (RX VCO) (UHF) L504 (TX VCO) (UHF)	Adjust L401 so that the voltage of C362 (+) is 1.5 V. Adjust L501 so that the voltage of C362 (+) is 2.0 V. (DJ-500E) Adjust L406 so that the voltage of C343 (+) is 1.1 V. (DJ-500T) Adjust L406 so that the voltage of C343 (+) is 1.9 V. (DJ-500E) Adjust L504 so that the voltage of C343 (+) is 2.1 V. (DJ-500T) Adjust L504 so that the voltage of C343 (+) is 3.0 V.	1.5 V±0.3 V (145 MHz) 2.0 V±0.3 V 1.1 V±0.2 V (435.0 MHz) 1.9 V±0.2 V (445.0 MHz) 2.1 V±0.3 V 3.0 V±0.3 V
Frequency	TC209	Set the unit in the transmission mode at 435 MHz (DJ-500T: 445 MHz) and adjust TC209.	435 MHz ±500 Hz (445 MHz ±500 Hz)
VHF power output	VR201 VR204	On "HI" position, turn VR201 for 6.6 W output at 145.0 MHz 13.0 V. On "LO" position, turn VR204 for 0.6 W output at 145.0 MHz 13.0 V.	6.5 W±0.5 W 0.5 W±0.1 W
UHF power output	VR202 VR203	On "HI" position, turn VR202 for 5.6 W output at 435 MHz 13.0 V (DJ-500T: 445 MHz 13.0 V) On "LO" position, turn VR203 for 0.6 W output at 435 MHz 13.0 V (DJ-500T: 445 MHz 13.0 V)	5.5 W±0.3 W 0.5 W±0.1 W
VHF deviation	VR604	Input a signal of 1 kHz/50 mV into the Mic jack and adjust VR604 so that you obtain 4.8 kHz/ Dev in the transmission mode.	4.8 kHz ±0.2 kHz
UHF deviation	VR601	Input a signal of 1 kHz/50 mV into the Mic jack and adjust VR601 so that you obtain 4.8 kHz/ Dev in the transmission mode.	4.8 kHz ±0.2 kHz

Item	Adjustment Point	Adjustment Method	Spec
Subaudible tone deviation (DJ-500T)	VR1	On the "ENC" mode at 449 MHz, turn VR1 so that the deviation is 0.8 kHz.	0.8 kHz ±0.1 kHz
1750 Hz tone burst deviation (DJ-500E)	VR1	Pressing Tone button at 435.0 MHz, turn VR1 so that the deviation is 3.5 kHz.	3.5 kHz ±500 Hz
DTMF deviation	VR1	Pressing [1] key at 435.0 MHz (DJ-500T: 445.0 MHz), turn VR1 so that the deviation is 3.3 kHz.	3.3 kHz ±500 Hz
UHF receiving sensitivity (SG output: Mod 1 kHz, 3.5 kHz/Dev)	TC201 TC202 TC203 L602 L603 L607	(1) Set the frequency at 435.0 MHz (DJ-500T: 445.0 MHz) and turn the squelch control to OFF. (2) Adjust TC201, TC202, TC203, L602 and L603, so that the RX sensitivity becomes maximum. (3) Adjust L607 so that the audio output becomes maximum.	(12 dB SINAD) (EMF) under −6 dBμ
VHF receiving sensitivity (SG output: Mod 1 kHz, 3.5 kHz/Dev)	L221 L222 L223	(1) Set the frequency at 145.0 MHz and turn the squelch control to OFF. (2) Adjust L221, L222 and L223 so that the sensitivity becomes maximum.	under −6 dBμ
S-meter (SG output: +6 dBμ EMF)	VR603 (VHF) VR609 (UHF)	Turn VR603 so that the [1] begins to light. Turn VR609 so that the [1] begins to light.	+4~+8 dBμ
Squelch sensitivity	VR606	(1) Connect the antenna terminal to the chassis ground and set the squelch volume to the 10 o'clock direction. (2) Turn VR606 to set the threshold point.	Threshold point

■ RF BOARDS ADJUSTMENT POINTS