

■ 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 \pm 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 \pm 0.3 V (145 MHz) 2.0 V \pm 0.3 V 1.1 V \pm 0.2 V (435.0 MHz) 1.9 V \pm 0.2 V (445.0 MHz) 2.1 V \pm 0.3 V 3.0 V \pm 0.3 V |
| Frequency | TC209 | Set the unit in the transmission mode at 435 MHz (DJ-500T: 445 MHz) and adjust TC209. | 435 MHz \pm 500 Hz (445 MHz \pm 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 \pm 0.5 W 0.5 W \pm 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 \pm 0.3 W 0.5 W \pm 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 \pm 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 \pm 0.2 kHz |

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| 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 | <ol style="list-style-type: none"> Set the frequency at 435.0 MHz (DJ-500T: 445.0 MHz) and turn the squelch control to OFF. Adjust TC201, TC202, TC203, L602 and L603, so that the RX sensitivity becomes maximum. 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 | <ol style="list-style-type: none"> Set the frequency at 145.0 MHz and turn the squelch control to OFF. 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 | <ol style="list-style-type: none"> Connect the antenna terminal to the chassis ground and set the squelch volume to the 10 o'clock direction. Turn VR606 to set the threshold point. | Threshold point |

RF BOARDS ADJUSTMENT POINTS

