Pioneer DJ

Service Manual

DDJ-RB

ORDER NO.
RRV4650

DJ Controller

DDJ-RB

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
DDJ-RB	SXJ	DC 5 V (USB bus power only)	
DDJ-RB	XJCN	DC 5 V (USB bus power only)	

THIS SERVICE MANUAL SHOULD BE USED TOGETHER WITH THE FOLLOWING MANUAL(S).

Model	Order No.	Remarks
DDJ-RB	RRV4651	SCHEMATIC DIAGRAM, PCB CONNECTION DIAGRAM, PCB PARTS LIST

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SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product may contain a chemical known to the State of California to cause cancer, or birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

CONTENTS

1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
  Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.
  Do NOT use a soldering iron whose tip temperature cannot be controlled.

1.2 NOTES ON PARTS REPLACEMENT

■ Lubrication during Reassembly of the Jog Dial

When reassembling the Jog dial after replacing the Jog dial or control panel, be sure to apply grease to the shaft and shaft bearing of the Jog dial.
For details on how to lubricate, see "Procedure for applying grease during reassembly of the Jog dial" in "7. DISASSEMBLY."
Be sure to use the specified grease.

■ Parts that require simultaneous replacement

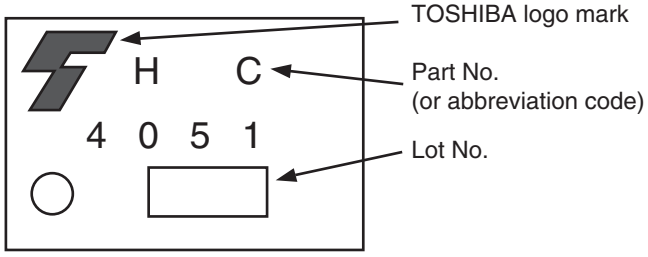
Two photointerrupters are provided for detection of Jog dial rotations.
When replacement of photointerrupters is required because of abnormalities in detected waveforms, etc., be sure to replace both photointerrupters at the same time.
Corresponding Part No.: RPI-579N1
Parts that require simultaneous replacement: PC1201 and PC1202 (DCK1B ASSY, DCK2B ASSY)

After replacement, be sure to perform the procedure described in "②-2 Judging the quality of mounting and connection of the photointerrupter" in "6. SERVICE MODE."

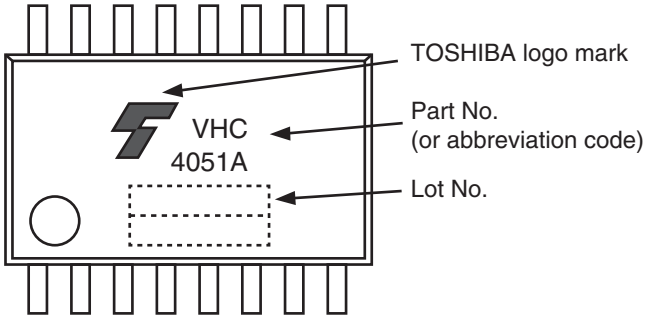
Mass production early, the following parts (IC711, IC712 (MAIN Assy)) may have temporarily implement an alternate parts.
If it was alternate parts when replacing the following parts, please replace in pairs to the corresponding part from alternate parts.
Alternate Part No.: 74HC4051AFT
Corresponding Part No.: TC74HC4051AFT
Parts that require simultaneous replacement: IC711, IC712 (MAIN Assy)

IC printing information

TC74HC4051AFT



74VHC4051AFT



1.3 SERVICE NOTICE

■ Monitoring of power supply and voltage

This unit always monitors for power supply and voltage.
After an error is detected, this unit will shut itself off immediately and all indicators are turned off.
After the unit shuts itself off because of an error, the defective point may produce heat, which may be dangerous.
Therefore, disconnect the USB cable and wait for a while before turning the unit back on.
Repair the unit according to the diagnostic procedures described in “5.3 MONITORING OF POWER SUPPLY AND VOLTAGE.”

■ Demo Mode

This unit will automatically enter demo mode if it is left unoperated for 10 minutes in normal operation mode.
To cancel this mode, operate any control or button of this unit.
The default setting of time to switch to the demo mode is 10 minutes.
To disable demo mode, change the setting in the settings of utilities mode (For details, refer to the operating instructions).

■ MXR Assy

Cross fader PCB (jumper connection) of MXR Assy is not service parts.
If necessary to order the MXR Assy.

2. SPECIFICATIONS

General – Main Unit

Power supply ..... DC 5 V
Rated current ..... 500 mA
Main unit weight ..... 2.1 kg (4.6 lb)
Max. dimensions ..... 482.6 mm (W) × 58.5 mm (H) × 272.4 mm (D)
(19.0 in. (W) × 2.3 in. (H) × 10.7 in. (D))
Tolerable operating temperature ..... +5 °C to +35 °C
Tolerable operating humidity ..... 5 % to 85 % (no condensation)

Audio Section

Sampling rate ..... 44.1 kHz
D/A converter ..... 24 bits
Rated output level
MASTER OUT ..... 2.1 Vrms/10 Ω
Frequency characteristic
USB ..... 20 Hz to 20 kHz
S/N ratio (rated output, A-WEIGHTED)
USB ..... 103 dB
MIC ..... 65 dB
Total harmonic distortion
USB ..... 0.005 %
Input impedance
MIC ..... 3 kΩ or higher
Output impedance
MASTER ..... 1 kΩ or less
PHONES ..... 10 Ω or less

Input / Output terminals

MIC input terminal
1/4" TS jack ..... 1 set
MASTER output terminal
RCA pin jack ..... 1 set
PHONES output terminal
3.5 mm stereo mini jack ..... 1 set
USB terminal
B type ..... 1 set

Accessories

- USB cable
  (DDE1128)

- Operating Instructions (Quick Start Guide)
  (SXJ: DRH1368)
  (XJCN: DRH1370)

- Warranty (for some regions)
  The included warranty is for the European region.
  — For the North American region, the corresponding information is provided on the last page of both the English and French versionsof the "Operating Instructions (Quick Start Guide)".
  — For the Japanese region, the corresponding information is provided on the last page of the Japanese version of the "Operating Instructions (Quick Start Guide)".

- License key card for "rekordbox dj"
  (DXA2304)

3. BASIC ITEMS FOR SERVICE
3.1 CHECK POINTS AFTER SERVICING

Items to be checked after servicing

To keep the product quality after servicing, confirm recommended check points shown below.

No.	Procedures	Check points
1	Check the firmware version.	The firmware version must be the latest one. If it is not the latest one, be sure to update it.
2	Confirm that the customer complaint has been resolved. If the problem pointed out by the customer occurs with a specific source or operation, such as PC input, MIC input, Fader, or VOL, input that specific source then perform that specific operation for checking.	The symptoms in question must not be reproduced. There must be no abnormality in audio signals or operations.
3	Check operations of the operating elements. Enter Service mode.	There must be no errors in operations of each button, the jog dial, LEDs, VOL, fader control, and rotary encoder.
4	Check the analog audio output. Connect this unit with a PC with the DJ application (rekordbox DJ) installed, via USB, then play back audio.	There must be no errors, such as noise, in audio signals and operations of the MASTER/HEADPHONES outputs.
5	Check the analog audio input. Input an audio signal via MIC.	There must be no abnormality in audio signals or operations.
6	Check the appearance of the product.	No scratches or dirt on its appearance after receiving it for service.

See the table below for the items to be checked regarding audio.

Item to be checked regarding audio	
Distortion	Volume too high
Noise	Volume fluctuating
Volume too low	Sound interrupted

5 6 7 8

3.2 JIGS LIST

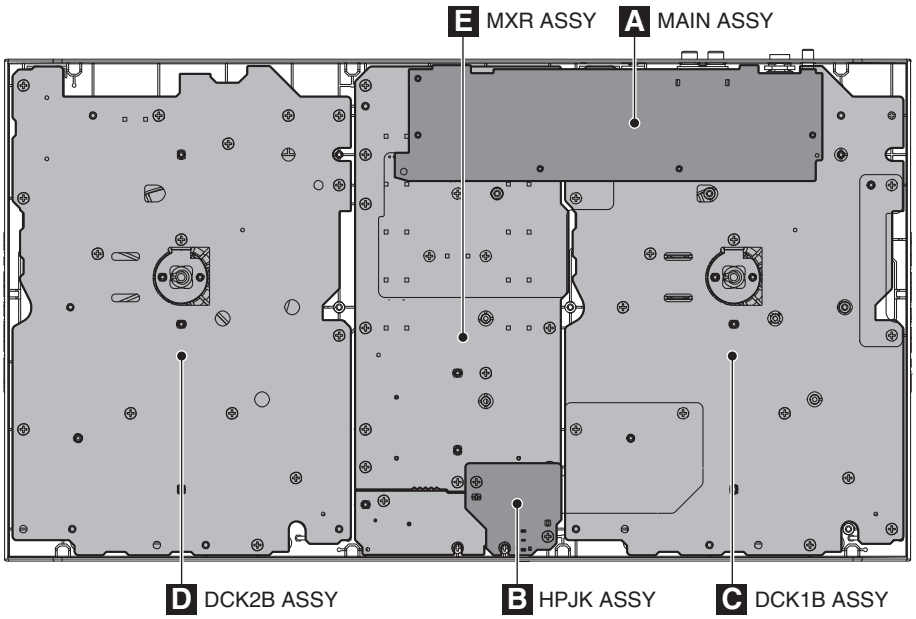
Jigs List

Jig Name	Part No.	Purpose of use / Remarks
USB cable	GGP1193	for PC connection

Lubricants and Glues List

Name	Part No.	Remarks
Grease	GEM1100	See "7. DISASSEMBLY."

3.3 PCB LOCATIONS

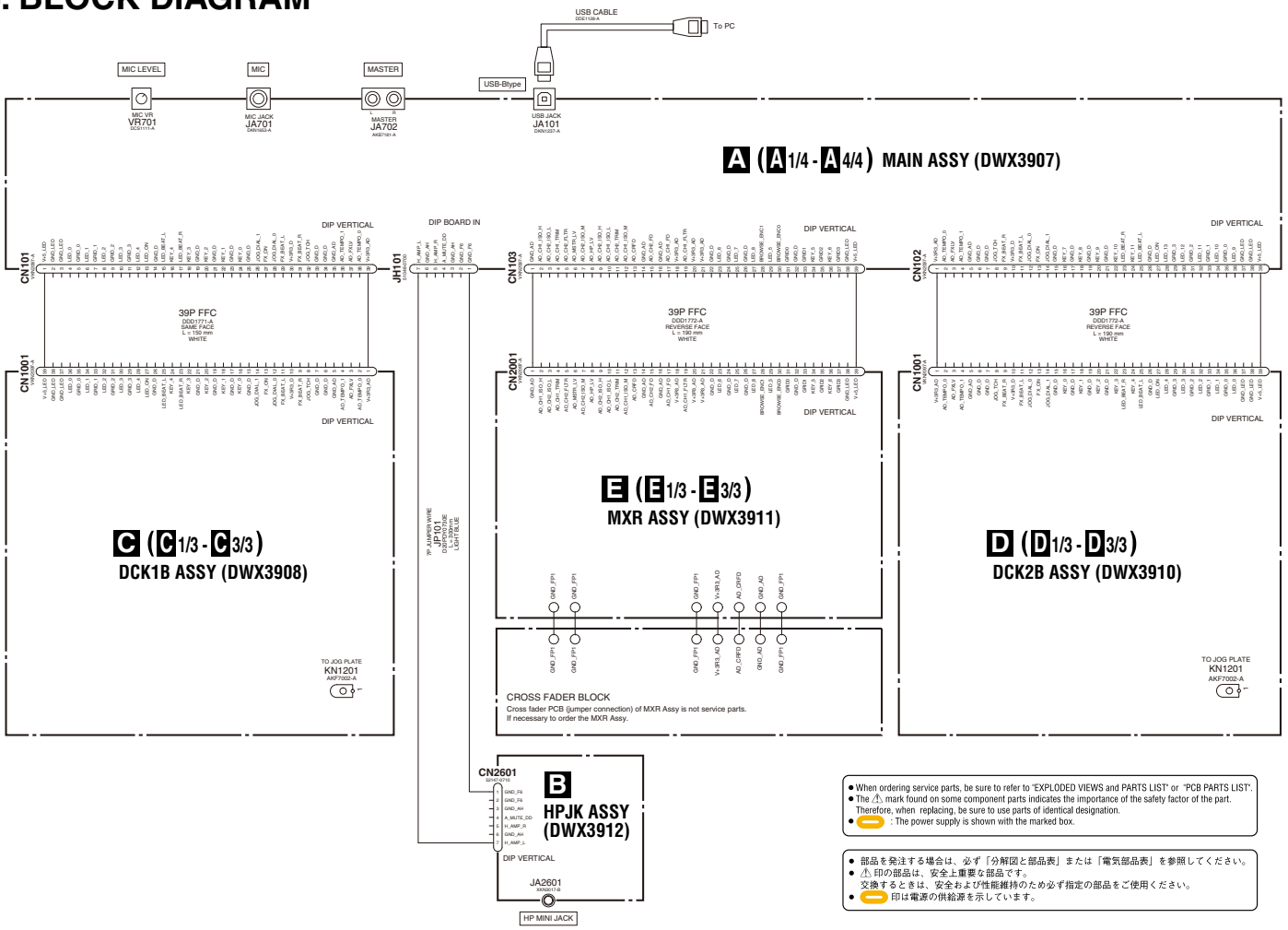


• Bottom view

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

Mark	No.	Description	Part No.
LIST OF ASSEMBLIES			
	1	MAIN ASSY	DWX3907
NSP	1	DCK1 ASSY	DWM2625
	2	DCK1B ASSY	DWX3908
	2	HPJK ASSY	DWX3912
NSP	1	DCK2 ASSY	DWM2626
	2	DCK2B ASSY	DWX3910
	1	MXR ASSY	DWX3911

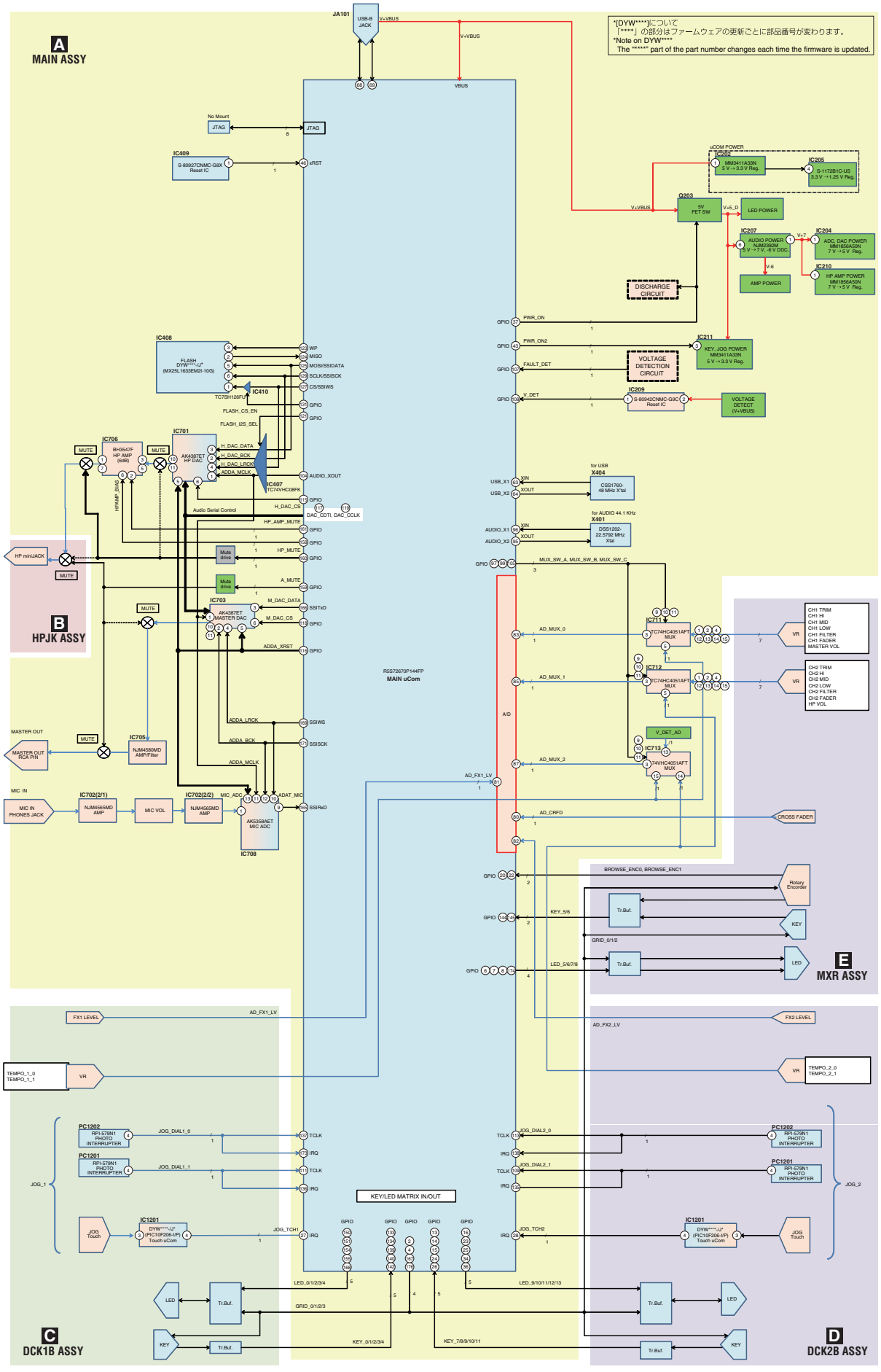
4. BLOCK DIAGRAM



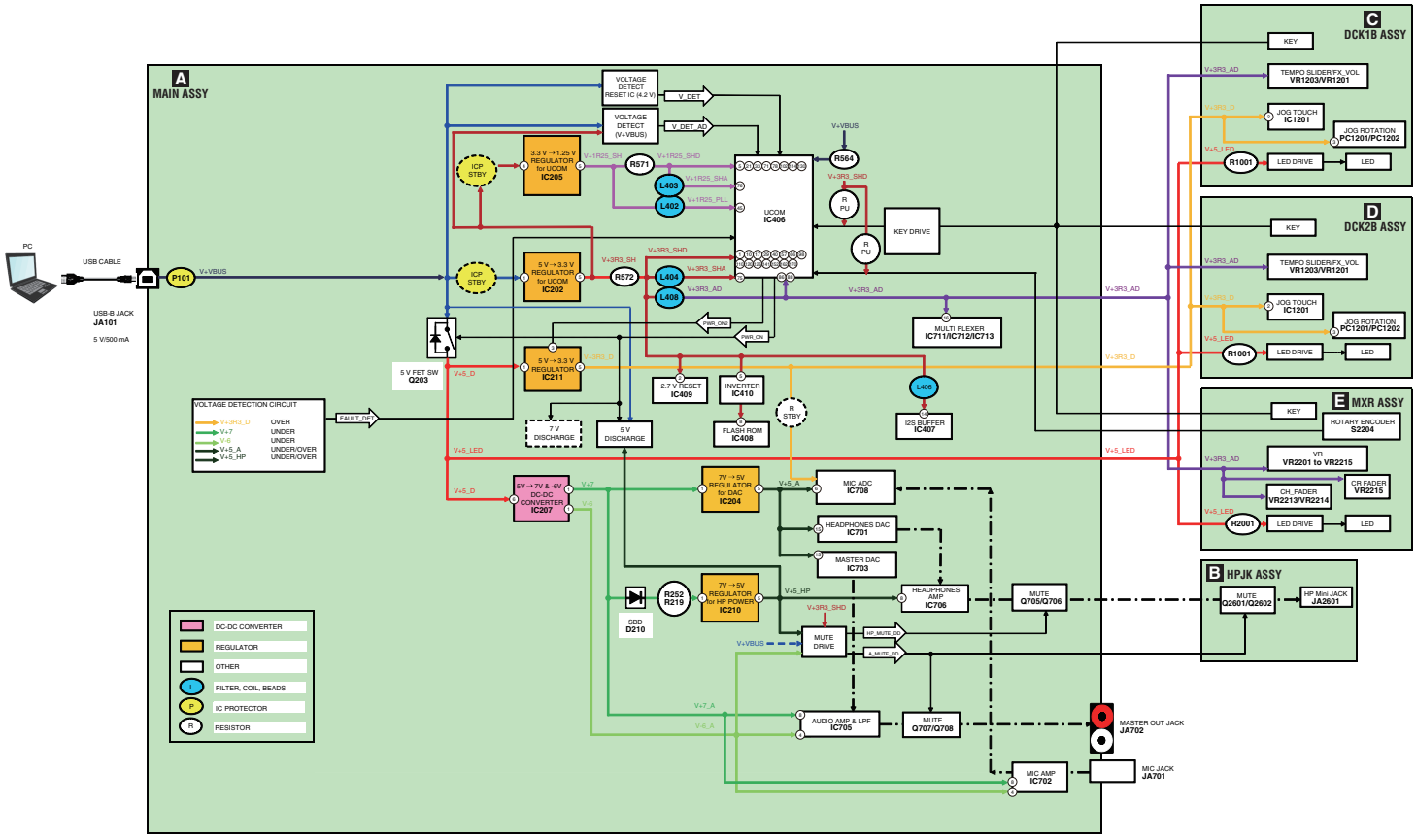
- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- : The power supply is shown with the marked box.

- 部品を発注する場合は、必ず「分解図と部品表」または「電気部品表」を参照してください。
- ⚠ 印の部品は、安全上重要な部品です。
  交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。
- 印は電源の供給源を示しています。

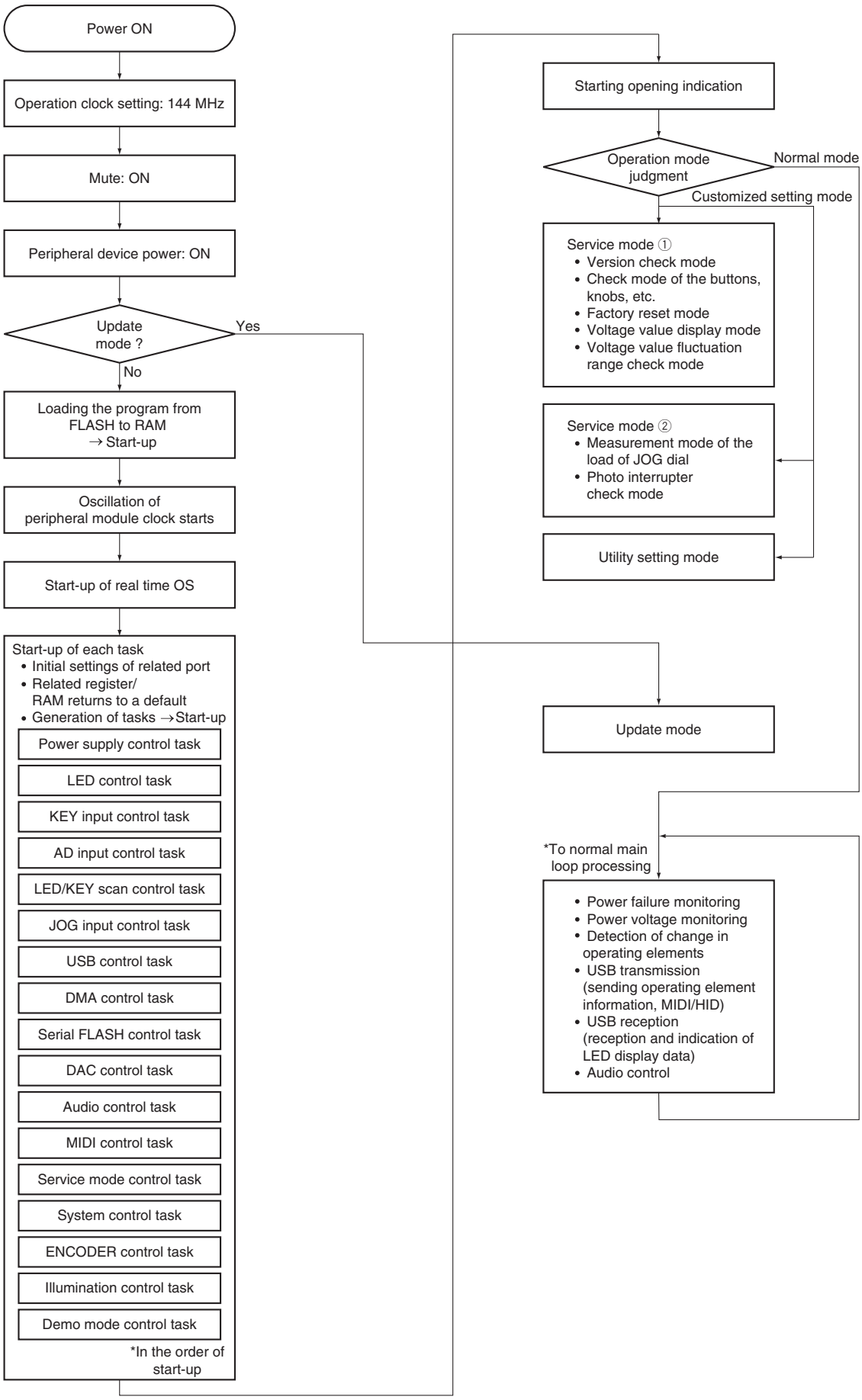
4.2 OVERALL BLOCK DIAGRAM



4.3 POWER BLOCK DIAGRAM



5. DIAGNOSIS
5.1 POWER ON SEQUENCE



5.2 TROUBLESHOOTING

In this section, causes of failure, diagnostics points, and corrective measures can be searched for according to symptoms.
For the relationship of each power-supply and signal system, see “4.3 POWER BLOCK DIAGRAM.”
If software of the product is updated before performing diagnostics, check that software updating has been performed properly before proceeding to diagnostics.
If software updating has not been performed properly, update the software, following the instructions in “8.2 UPDATING OF THE FIRMWARE.”

Contents

The waveform numbers and voltage confirmation-point numbers described in this section correspond to the numbers on the circuit diagrams and PCB diagrams.
Be sure to check the failure points, as well as check for failure in their peripheral circuits.

[0] Prior Confirmation

[0-1] Checking in Service Mode

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	———	Service mode	Identify a failure point.	After a failure point is identified, see the section referenced in this manual.	6. SERVICE MODE

[0-2] Checking Internal Cables

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Disconnection, breakage, or loose connection of internal cables	Cables	Check that all the cables are securely connected. Check that there is no breakage in the cables.	Securely connect a cable if it is not connected. If a cable is broken, replace it. **Note:** If an FFC cable is disconnected, be careful of the orientation of the contacts when reconnecting it, referring to the printed guide on the board.	4.1 OVERALL WIRING DIAGRAM

[1] Failure in Startup (Failure in power-on)

[1-1] Failure in the power system

In a case where the unit is not started after the USB cable is connected and the unit is turned ON (all LED are not lit)

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Failure in the power system (1)	MAIN Assy	Check that the voltage of the direct pin of USB jack (JA101) is in the range of 4.75–5.25 V.	If the voltage is outside the range of 4.75–5.25 V, failure in the USB-bus power, USB cable and USB jack (JA101).	4.3 POWER BLOCK DIAGRAM 5.3 MONITORING OF POWER SUPPLY AND VOLTAGE
2	Failure in USB-bus power	MAIN Assy	Check that the V+VBUS voltage is lower than that of the direct pin of USB jack (JA101) by approximately 0.1 to 0.2 V.	If the voltage is 0 V, the wire for the IC protector (P101) may be broken.	4.3 POWER BLOCK DIAGRAM
3	Power failure in the UCOM	MAIN Assy	If V+3R3_SH is abnormal (2.7 V or less)	If the normal voltage of V+3R3_SH is not restored, IC202 or a part that is connected to V+3R3_SH on the MAIN Assy may be defective, or connection may be poor.	4.3 POWER BLOCK DIAGRAM
4	Power failure in the UCOM	MAIN Assy	If the V+3R3_SH voltage is normal, check that Q203 (5V FET SW) is functioning properly.	If the PWR_ON signal is "L," V+5D, V+5_LED will not be output, because Q203 is not turned ON. The error-detection circuit may have been activated. Go to [5]. If the PWR_ON signal is "H," the error-detection circuit is not activated. Check the voltages of all power ICs. If they are normal, see "[1-2] Failure in the microcomputer system."	4.3 POWER BLOCK DIAGRAM

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
5	Power failure in the UCOM	MAIN Assy	Check if the error-detection circuit has been activated.	If the FAULT_DET signal is "L," the error-detection circuit has been activated. Go to [6]. If the FAULT_DET signal is "H," the error-detection circuit is not activated. Check the voltages of all power ICs. If they are normal, see "[1-2] Failure in the microcomputer system."	4.3 POWER BLOCK DIAGRAM
6	Power failure (2) Identification of defective power system	MAIN Assy	Deactivate the voltage monitoring circuit then check the section with improper voltage.	The voltage monitoring circuit can be deactivated by removing R267 (0 Ω) on the FAULT_DET. See the notes in "5.3 MONITORING OF POWER SUPPLY AND VOLTAGE" before proceeding to further diagnostics. To identify the section with improper voltage, check the voltage at each point on the MAIN Assy.	4.3 POWER BLOCK DIAGRAM 5.3 MONITORING OF POWER SUPPLY AND VOLTAGE

[1-2] Failure in the microcomputer system

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Power failure in the UCOM	MAIN Assy	Check the power terminal of the UCOM (IC406).	Check the power and voltage are normal. Check the power line and the parts, such as coils (beads), resistors, and capacitors. If no problem was found with the parts, power line, and conduction between the power supply and GND, the UCOM (IC406) may be defective.	10.13 WAVEFORMS ⑤①⑤②⑤③
2	UCOM Reset circuit error	MAIN Assy	Check the Reset terminal (pin 46) of the UCOM (IC406).	In normal operation the voltage of the Reset terminal (Pin 46) is high. If it is low, check if the voltage at V+3R3_SH or V+3R3_SHD is 2.7 V or less. Check the reset line, resistors, capacitors, and the Reset IC (IC1001).	10.13 WAVEFORMS ⑤①⑤②⑤③
3	UCOM X'tal error	MAIN Assy	Check the oscillation waveforms of the X'tal (X404).	If the oscillation waveforms are abnormal, check the resistor on the oscillation-signal line, the capacitor, and X'tal (X404). If nothing is wrong with these parts, the UCOM (IC406) may be defective.	10.13 WAVEFORMS ⑤①⑤②⑤③
4	UCOM startup error	MAIN Assy	After startup, check the lighting statuses of the LEDs. (For example, although some of the LEDs light properly, the unit is not started up properly.)	Reload the program via USB (8.2 UPDATING OF THE FIRMWARE). If the normal status is not recovered after all above steps are performed, the UCOM (IC406) may be defective.	8.2 UPDATING OF THE FIRMWARE

[2] Display (LED indicators)

[2-1] Any one of the LEDs does not light.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective LED, Defective LED signal line	Periphery of the abnormal LED	Check the difference in electrical potentials between the positive and negative electrodes of the LED that does not light (normally, it must be within approx. 3.2 V: blue, 2.2 V: others).	If the difference is outside the normal range, the signal lines at the periphery of the corresponding LED, resistors, or the LED itself may be defective.	10.13 WAVEFORMS ⑤④⑦③⑦④⑦⑤

[2-2] Several LEDs do not light or abnormal light

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective LED signal line, Defective UCOM	MAIN Assy	Check the output signal of UCOM (IC406).	If the output signal is abnormal, the UCOM (IC406) and LED signal line may be defective.	10.13 WAVEFORMS ⑤④⑦③⑦④⑦⑤
2	Defective LED	Periphery of the abnormal LED	Check the connections of the LED then check the forward voltage (approx. 3.2 V: blue, 2.2 V: others) between both ends of the LED.	If the signal waveform is abnormal, the LED may be defective.	10.13 WAVEFORMS ⑤④⑦③⑦④⑦⑤
3	Defective transistor for LED drive	DCK1 Assy, DCK2 Assy, MXR Assy	Check the transistors for LED drive.	If the signal waveform is abnormal, the transistor may be defective.	10.13 WAVEFORMS ⑤④⑦③⑦④⑦⑤

[3] Operations (Buttons / Volumes / Faders / Sliders / Jog dial)

Operation of all operating elements can be confirmed in Service mode.

[3-1] The performance pads (8 large square pads on each of Decks 1 and 2) do not function.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Loose connection /defective parts	DCK1 Assy DCK2 Assy Periphery of the abnormal button	Check that the port logic of the UCOM (IC406) that is connected to a performance pad changes when the pad is operated.	**When the matrix key is pressed :** Normally, repeat High/Low in grid cycle when a performance pad is ON, and High (approx. 3.3 V) when it is OFF. If it is not, the performance pad is defective, or signal line, FFC, or connector may be in failure.	10.13 WAVEFORMS 54 58 59
2	Defective UCOM (IC406)	MAIN Assy	If the symptom persists after the above corrections.	The UCOM (IC406) may be defective.	[7] Basic Operation Check of the UCOM

[3-2] The buttons are disabled except performance pads

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Loose connection /defective parts	DCK1 Assy DCK2 Assy MXR Assy Periphery of the abnormal button	Check that the signal line from the corresponding switch to the transistor at the switching-detection section up to the UCOM (IC406) is all right.	**When the matrix key is pressed :** Normally, repeat High/Low in grid cycle when a performance pad is ON, and High (approx. 3.3 V) when it is OFF. If it is not, the performance pad is defective, or signal line, FFC, or connector may be in failure. **When the direct key (FX ON/OFF button, FX BEAT setup buttons) is pressed :** Normally, the logic is Low (approx. 0 V) when a performance pad is ON, and High (approx. 3.3 V) when it is OFF. If it is not, the performance pad is defective, or signal line, FFC, or connector may be in failure. If other switches that are connected to the same signal line operate normally, the corresponding switch or the diode on the signal line for the corresponding switch may be defective. If other switches do not operate either, a transistor in the switching-detection section or its peripheral circuits may be defective.	10.13 WAVEFORMS 54 58 59
2	Defective UCOM (IC406)	MAIN Assy	If the symptom persists after the above corrections.	The UCOM (IC406) may be defective.	[7] Basic Operation Check of the UCOM

[3-3] Rotary selector not controllable

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective BROWSE	MXR Assy	Check that the signal lines (ENC_BRWS_0/1) are normal during rotation of the rotary selector.	If the signals are not normal, signal line, resistor, the rotary selector may be defective.	10.13 WAVEFORMS 66 67
2	Defective UCOM (IC406)	MAIN Assy	If the symptom persists after the above corrections.	The UCOM (IC406) may be defective.	[7] Basic Operation Check of the UCOM

[3-4] Volumes, Faders or sliders not controllable

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Loose connection /defective parts	DCK1 Assy, DCK2 Assy, MXR Assy	Check that the signal lines (AD_****) between the VRs/faders/sliders, multiplexer (IC711, IC712, IC713) and UCOM (IC406) are all right.	If the signals are not normal, signal line, resistor, capacitor may be defective.	10.13 WAVEFORMS 60 61 62 63 64 65

2	Loose connection /defective parts	DCK1 Assy, DCK2 Assy, MXR Assy	Check the voltage at each signal line when the corresponding VR is turned or the corresponding fader/slider is moved.	If the voltage of the signal line does not change between 3.3 V and 0 V when the VRs, faders, or sliders are operated, the corresponding operating element, signal line, multiplexer (IC711, IC712, IC713), FFC, connector, resistance, or capacitor may be defective. If the voltage of the AD_TEMPO1/2_1 signal line is not 1.65 V, or if the voltage of the AD_TEMPO1/2_0 signal line does not change between 3.3 V and 0 V when the tempo slider is moved, the tempo slider, signal line, multiplexer (IC711, IC712, IC713), FFC, connector, or capacitor may be in failure.	10.13 WAVEFORMS ⑥⑥①⑥②⑥③⑥④⑥⑤
3	Defective UCOM (IC406)	MAIN Assy	If the symptom persists after the above corrections.	The UCOM (IC406) may be defective.	[7] Basic Operation Check of the UCOM

[3-5] Abnormalities regarding the Jog dial

After the Jog dial Assy is disassembled then reassembled, be sure to check that the load value for the Jog dial is within the specified range. Refer to the "6.1 SERVICE MODE_②-1: Measurement mode of the load of Jog dial".

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
Turning of the Jog dial is not detected.					
1	Loose connection /defective parts	DCK1 Assy, DCK2 Assy	Check the JOG_DIAL1_0/1_1 and JOG_DIAL2_0/2_1 waveforms while the Jogdial is rotated.	If either waveform is abnormal, the photo interrupters (PC1201 and PC1202) may be defective.	10.13 WAVEFORMS ⑤①⑦①⑦②
2	Defective JOG1/2 photo interrupter	DCK1 Assy, DCK2 Assy	Check that the phases of the JOG_DIAL1_0/1_1 and JOG_DIAL2_0/2_1 waveforms are identical to those described in "②-2: Photo Interrupter check mode" in "6.1 SERVICE MODE" when the jog dial is turned.	If the waveforms are normal but the phases are not correct, the photointerrupters (PC1201 and PC1202) may be mounted improperly.	10.13 WAVEFORMS ⑤①⑦①⑦②
3	Defective UCOM (IC406)	MAIN Assy	If the symptom persists after the above corrections.	The UCOM (IC406) may be defective.	[7] Basic Operation Check of the UCOM
Touching of the jog dial is not detected, or touching is detected although the jog dial is not touched.					
4	Loose connection /defective parts	DCK1 Assy, DCK2 Assy	Check the signal level of Pin 4 of IC1201.	The signal is "H" while the jog dial is not touched and becomes "L" when it is touched. If it is not, go to [5]. If it is, go to [8].	10.13 WAVEFORMS ⑥⑧⑥⑨
5	Loose connection /defective parts	DCK1 Assy, DCK2 Assy	Check the signal of Pin 3 of IC1201 (Test land "Freq").	The signal produces a pulse waveform in the frequency range of 900 to 1300 kHz while the jog dial is not touched and a pulse waveform in the frequency range of 400 to 700 kHz while it is touched. If so, IC1201 may be defective. If the signal produces a pulse waveform in the frequency range of 900 to 1300 kHz regardless of the jog dial's being touched or not, go to [6]. For other abnormalities, go to [7].	10.13 WAVEFORMS ⑥⑧⑥⑨
6	Loose connection /defective parts	DCK1 Assy, DCK2 Assy	Check the connection between Plate (DAH3113) and IC1201. As the surface of the Plate is coated, a conduction check must be performed on the plate surface facing the jog dial (DNK6638) through their gap.	Possible causes are poor connection between the aluminum plate of the jog dial and the KN1201 metal fittings for grounding, or poor connection or a defective part in the circuits between the KN1201 and IC1201.	———
7	Loose connection /defective parts	DCK1 Assy, DCK2 Assy	Check connections between KN1201 and IC1201.	Poor connection or a defective part in the circuits between the KN1201 and IC1201.	———
8	Loose connection /defective parts	DCK1 Assy, DCK2 Assy	Check connections between IC1201 and UCOM (IC406).	If the connection is properly made, the UCOM (IC406) may be defective.	———
The Jog dial turns too freely. (The load value for the Jog dial is outside the specified range.)					
9	Improper assembly of the Jog dial	Jog dial Assy	Check that the load value for the Jog dial is within the specified range, referring to "Measuring method" in "6.1 SERVICE MODE_②-1: Measurement mode of the load of Jog dial."	If the load value is outside the specified range, detach the jog dial then reapply grease. See "Procedure for applying grease during reassembly of the jog dial" in "7. DISASSEMBLY."	6.1 SERVICE MODE 7. DISASSEMBLY
Resistance to turning the Jog dial is too strong. (The load value for the Jog dial is outside the specified range.					
10	Improper assembly of the Jog dial	Jog dial Assy	Check that the load value for the Jog dial is within the specified range, referring to "Measuring method" in "6.1 SERVICE MODE_②-1: Measurement mode of the load of Jog dial."	If the load value is outside the specified range, perform manual running-in rotations of the Jog dial. See "Procedure for applying grease during reassembly of the jog dial" in "7. DISASSEMBLY."	6.1 SERVICE MODE 7. DISASSEMBLY

[4] USB connection

[4-1] The unit cannot be recognized by the PC when connected to the PC via USB connection.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
0	Wrong input setting of the application installed on the PC	Input setting of the application installed on the PC	Check that the input setting of the application installed on the PC is appropriate.	The PC will not recognize the unit if the input setting of the application installed on the PC is inappropriate.	Operating instructions
1	Failure in startup	MAIN Assy	Check the lighting statuses of the LEDs during startup.	If no LED lights, see [1] Failure in Startup.	[1] Failure in Startup
2	Defective UCOM	MAIN Assy	Check the communication waveforms of the USB_DP/DN lines.	If the unit is connected to a PC via the USB cable, communication will be performed through the USB DP/DN lines. If communication cannot be performed, check the USB cable, connectors, internal cables, resistors, capacitors, and filters. If nothing is wrong with them, UCOM (IC406) is defective. Check the items listed in "[1-2] Failure in the microcomputer system".	[1-2] Failure in the microcomputer system 10.13 WAVEFORMS ⑱⑲

[5] AUDIO OUT

[5-1] MASTER OUT is not output.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
0	Wrong input setting of the application installed on the PC	Input setting of the application installed on the PC	Check that the input setting of the application installed on the PC is appropriate.	The PC will not recognize the unit if the input setting of the application installed on the PC is inappropriate.	Operating instructions
1	———	MAIN Assy	Check that an audio signal is output from DAC (IC703 pin 10, 11) for MASTER OUT.	If MASTER connector outputs, go to [2], [3]. If MASTER connector does not output, go to [4].	10.13 WAVEFORMS ㉙㉜㉝
2	Mute signal Loose connection /defective parts	MAIN Assy	Check the level of the MUTE audio muting signal.	Normally, the A_MUTE_DD signal must be low (Approx. -6 V, muting canceled). When it is high (Approx. 3.3 V), muting is activated and no sound is output. The MUTE signal becomes high, possibly because connection of the corresponding signal line is loose or the Muting circuit (Q709) or Muting Drive circuit (Q710, Q711 Q713, etc.) is defective.	———
3	Mute signal Loose connection /defective parts	MAIN Assy	Check the level of the A_MUTE audio muting signal.	Normally, the A_MUTE_DD signal must be low (Approx. 0 V, muting canceled). When it is high (Approx. 3.3 V), muting is activated and no sound is output. The A_MUTE_DD signal becomes high, possibly because connection of the signal line is loose or the transistor (Q709) or UCOM (IC406) is defective.	———
4	Loose connection /defective parts	MAIN Assy	Check the digital input signals to DAC (IC703) for MASTER OUT. • MCLK: pin 1 • BCLK: pin 2 • DATA: pin 3 • LRCK: pin 4 • XRST: pin 5	If any of those signals is abnormal, connection of the corresponding signal line may be loose or the resistor, capacitor or UCOM (IC406) may be defective. If all signals are normal, the DAC (IC701) and its peripheral circuitry do not function properly.	10.13 WAVEFORMS ㉙㉚㉛㉜㉝
5	Mute signal Loose connection /defective parts	MAIN Assy	Identify the point where the audio signal is interrupted on the line from pins 10 and 11 of IC703 (DAC for MASTER OUT) to the jacks (JA702).	The audio signal may be interrupted by a loose connection of the signal line or by a defective resistor, capacitor, transistor, OP amps (IC705) or jacks.	10.13 WAVEFORMS ㉞㉟

[5-2] The HEAD PHONE signal is not output.

Before checking through the table below, check if the settings of the PC application are correct.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
0	Wrong input setting of the application installed on the PC	Input setting of the application installed on the PC	Check that the input setting of the application installed on the PC is appropriate.	The PC will not recognize the unit if the input setting of the application installed on the PC is inappropriate.	Operating instructions
1	Loose connection /defective parts	MAIN Assy	Check the audio signal (HP_L/R), using pins 5 and 7 of the JH101 on the MAIN Assy.	If no audio signal is output, the MAIN Assy may be defective. Go to [2]. If an audio signal is output, connection between the HPJK and MAIN Assys may be loose, connections inside the HPJK Assy may be loose, or these Assys may be defective. Go to [6].	10.13 WAVEFORMS ㊱㊲
2	———	MAIN Assy	Check the audio output signal, using pins 10 and 11 of the HP DAC (IC701).	If an audio signal is output, go to [3]. If an audio signal is not output, go to [5].	———
3	Loose connection /defective parts	MAIN Assy	Check the audio input signal, using pins 3 and 5 of the HP AMP (IC706). Check the audio output signal, using pins 1 and 7 of the HP AMP (IC706).	If the output signal is normal, connection of the audio signal between HP AMP IC706 and JH101 may be loose. If the input signal is abnormal, connection of the audio input signal line may be loose or the resistor or capacitor may be defective. If the input signal is normal but the output signal is abnormal, go to [4].	———
4	Mute signal Loose connection /defective parts	MAIN Assy	Check the level of the muting signal (IC706 pin 2) for HP AMP.	Normally, the muting signal must be high (Approx. 3.3 V, muting canceled). When it is low (Approx. 0 V), muting is activated and no sound is output. The signal line may be defective. If the muting signal is high and normal, possibly HP AMP is defective.	———
5	Loose connection /defective parts	MAIN Assy	Check the digital input signals to DAC (IC701) for HP. • MCLK: pin 1 • BCLK: pin 2 • DATA: pin 3 • LRCK: pin 4 • XRST: pin 5	If any of those signals is abnormal, connection of the corresponding signal line may be loose or the resistor, capacitor, UCOM (IC406) may be defective. If all signals are normal, the DAC (IC701) and its peripheral circuitry do not function properly.	10.13 WAVEFORMS ㉙㉚㉛㉜㉝
6	Loose connection /defective parts	HPJK Assy	Identify the point where the audio signal is interrupted on the line from JH101 to the jacks (JA2601).	If audio signals is abnormal, connection of the corresponding signal line may be loose or the resistor, capacitor, jack terminal may be defective.	———

[6] AUDIO IN

[6-1] The MIC INPUT signal is not output

Check if the MASTER OUT signal is normal, then if it is, check through this article.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
0	Wrong input setting of the application installed on the PC	Input setting of the application installed on the PC	Check that the input setting of the application installed on the PC is appropriate.	The PC will not recognize the unit if the input setting of the application installed on the PC is inappropriate.	Operating instructions
1	Loose connection /defective parts	MAIN Assy	Check the audio signal (MIC_IN), using JA701 on MAIN Assy.	If no signal is output, the MIC jack or MIC cable may be defective. If an signal is output, connection of the corresponding signal line may be loose or the resistor, capacitor, OP amp, MIC volume ADC (IC708) may be defective.	———
2	Loose connection /defective parts	MAIN Assy	Check the audio signal (MIC_ADC) on MAIN Assy.	If no signal is output, connection of the corresponding signal line may be loose or the resistor, capacitor, OP amp, MIC volume, jack terminal may be defective.If an signal is output, the ADC (IC708) and its peripheral circuitry may be defective.	———
3	Loose connection /defective parts	MAIN Assy	Check the digital input signals to ADC (IC708) for MIC. • MCLK: pin 11 • BCLK: pin 12 • DATA: pin 9 • LRCK: pin 10 • XRST: pin 5	If any of those signals is abnormal, connection of the corresponding signal line may be loose or the resistor, capacitor, UCOM (IC406) may be defective. If all signals are normal, the ADC (IC708) and its peripheral circuitry do not function properly.	10.13 WAVEFORMS ㉙㉚㉛

[7] Basic Operation Check of the MAIN UCOM

Note: First, check if the voltage at each section is OK.
Operation checking of all operating elements and LEDs can be performed in Service mode. With regard to operation checking of LED lighting, besides lighting of each LED, check that all LEDs can be simultaneously lit or unlit.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Failure in LED lighting	DCK1 Assy DCK2 Assy MXR Assy	In each mode where the abnormal LED should be lit, check the GRID signals (GRID_0 to GRID_3) relating to the abnormal LED between the UCOM and the transistor for driving the corresponding LED.	If the waveform is abnormal, connection of the GRID signal line may be loose or the resistor, capacitor, or transistor may be defective. If nothing is wrong with these parts, the UCOM (IC406) may be defective.	10.13 WAVEFORMS 54 55 56 57
2		DCK1 Assy DCK2 Assy MXR Assy	In each mode where the abnormal LED should be lit, check the LED-driving signal between the transistor for driving the corresponding LED and the abnormal LED.	If the waveform is abnormal, connection of the LED-driving signal line may be loose or the resistor, transistor, or diode may be defective.	10.13 WAVEFORMS 54 73 74 75
3		DCK1 Assy DCK2 Assy MXR Assyy	In each mode where the abnormal LED should be lit, check the LED-control signal (LED_0 to LED_13) corresponding to the abnormal LED between the transistor for driving the corresponding LED and the UCOM.	If the waveform is abnormal, connection of the LED-control signal line may be loose or the resistor, capacitor, or transistor may be defective. If nothing is wrong with these parts, the UCOM (IC406) may be defective.	10.13 WAVEFORMS 54 73 74 75
4	Failure in button operation	DCK1 Assy DCK2 Assy MXR Assy	When pressing the abnormal button, check the GRID signal (GRID_0 to GRID_3) corresponding to the abnormal key between the UCOM and the switch for the corresponding key (S****).	If the waveform is abnormal, connection of the KEY-detection signal line may be loose or the resistor, capacitor, or transistor may be defective. If nothing is wrong with these parts, the UCOM (IC406) may be defective.	10.13 WAVEFORMS 54 55 56 57
5		DCK1 Assy DCK2 Assy MXR Assy MAIN Assy	When pressing the abnormal button, check the KEY detection signal between the abnormal key and the transistor for key detection.	If the waveform is abnormal, connection of the KEY-detection signal line may be loose or the switch, transistor, or diode may be defective.	10.13 WAVEFORMS 54 58 59
6		DCK1 Assy DCK2 Assy MXR Assy MAIN Assy	When pressing the abnormal button, check the KEY-detection signal (KEY_0 to KEY_11) corresponding to the abnormal key between the transistor for key detection and the UCOM.	If the waveform is abnormal, connection of the KEY-detection signal line may be loose or the resistor, capacitor, or transistor may be defective. If nothing is wrong with these parts, the UCOM (IC406) may be defective.	10.13 WAVEFORMS 54 58 59
7	Failure in operation of the performance pad, volume, tempo slider, fader, rotary selector, or Jog dial (touching and rotating)	DCK1 Assy DCK2 Assy MXR Assy MAIN Assy	Check the waveform of each input signal to the UCOM (IC406) when you operate the abnormal operating element.	If the waveform is abnormal, connection of the corresponding signal line may be loose or the resistor, capacitor, or transistor may be defective. If nothing is wrong with these parts, the UCOM (IC406) may be defective.	10.13 WAVEFORMS 51 60 61 62 63 64 65 66 67 68 71 72

5.3 MONITORING OF POWER SUPPLY AND VOLTAGE

■ **The MAIN uCOM (IC406) of this unit always monitors for power and voltage failure of the unit and will shut the unit off immediately after an error is detected.**

• Content to be monitored
Power supply voltage drop and power supply voltage rise generated by short-circuiting between any power-supply IC and GND or excess current inside the MAIN Assy
Power to be monitored: V+5_A, V+5_HP, V+7, V-6, V+3R3_D

• MAIN UCOM Detection terminal and its terminal voltage
TP terminal near the R267 of MAIN Assy or IC406 (MAIN UCOM) pin 107 FAULT_DET.
Normal: Approximately 3.3 V
Abnormal: 0 V

• Timing of monitoring start
500 ms after the unit is turned ON

• Timing upon judgment as a failure
50 msec after an error is detected

• LED indication when an error is generated
All LEDs are unlit.

• Restoration method
If the unit shuts itself down because an error is detected, perform diagnosis, disconnect the USB cable, wait for a while and then connect the USB cable on again.

• Diagnostic procedure
① Disconnect the USB cable.
② Remove R267 from the MAIN Assy. Note: This step will disable power monitoring.
③ Reconnect the USB cable.
④ As the unit is turned on in a normal way, check each voltage in this state.
Note: Because power will be forcibly supplied even if any voltage is abnormal, if abnormal voltage continues, the defective point may produce heat, which may be dangerous. Therefore, during diagnosis, be sure to disconnect the USB cable several seconds after they are connected so that forcible powering will not continue.
⑤ If the voltage of any power IC is abnormal, the circuit that uses that power or the power IC itself may be defective.
⑥ Repair the defective part then check that the power and voltage of the repaired part becomes normal.
⑦ Return R267 to its original position on the MAIN Assy.
Note: This step will enable power monitoring.

■ **The circuit of this unit monitors for power and voltage failure from USB bus power and will shut the unit off immediately after an error is detected.**

• Content to be monitored
Power supply voltage failure from the USB bus power
Power to be monitored: V+VBUS

• MAIN UCOM Detection terminal and its terminal voltage
TP terminal of V_DET signal of MAIN Assy or IC406 (MAIN UCOM) pin 108 V_DET.
Normal: HI (3.3 V)
Abnormal (V+VBUS 4.2 V or less) : LOW (0 V)

• Timing of monitoring start
120 ms after the unit is turned ON

• Timing upon judgment as a failure
570 us after an error is detected

• LED indication when an error is generated
All LEDs are unlit.

• Restoration method
If the unit shuts itself down because an error is detected, perform diagnosis, disconnect the USB cable, wait for a while and then connect the USB cable on again.

• Diagnostic procedure
① Check the V+VBUS power, connect the USB cable.
② If the voltage is abnormal, the circuit that uses that power or the power IC itself may be defective.

5.4 ABOUT POWER-SAVING MODE

This product always monitors voltage drop of the VBUS power (power to be supplied via a USB cable), which may be caused by connection of a peripheral device that is not covered under warranty or an erroneous operation. If an abnormality is detected, the product will limit the maximum output level of the headphone so that it can operate in a lower power-consumption mode.
If an abnormality is generated, check the connected headphones and computer.

• Content to be monitored

Drop in power voltage in the MAIN Assy to be supplied via a USB cable
Power voltages to be monitored: V+VBUS

• Microcomputer Detection terminal and its terminal voltage

TP terminal near the R295 of MAIN Assy or IC713 (MUX IC) pin 13 V_DET_AD input terminal.
Normal: Approximately 2.3 V to 2.6 V
Abnormal: < 2.3 V

• Timing of monitoring start

500 ms after the unit is turned ON

• Timing upon judgment as a failure

50 msec after an error is detected

• Headphone level when an error is generated

V+VBUS: 4.2–4.5 V
The maximum output level of the headphone is suppressed to approximately 15%.
If normal power voltage is recovered, the suppressed maximum output level of the headphone will return to its original level.

• Items to be checked

① Check if headphones with impedance outside the range of the guaranteed specifications (impedance 32 ohms or less) are connected.
② Check if a monaural plug is connected to the Headphones connector.
③ The connected computer may not be able to supply enough USB power (may not meet USB standards).

5.5 OPERATION CHECK WITH rekordbox

[Installation of rekordbox]

A brief explanation of how to install rekordbox on a PC is given below.
For details, refer to the operating instructions of the software.
If the OS of the computer to be used is Windows, install the driver software that enables audio output from the computer beforehand.
The operating environment of the computer required for installation of rekordbox is shown below.

Minimum operating environment

Supported operating systems	CPU and required memory
Mac OS X: 10.11/10.10/10.9	Intel® processor Core™ i3/i5/i7, Intel® processor Core™ 2 Duo
	4 GB or more of RAM
Windows: Windows 10/Windows 8.1/ Windows 7 (latest service pack)	Intel® processor Core™ i3/i5/i7, Intel® processor Core™ 2 Duo
	4 GB or more of RAM

Others	
USB port	A USB 2.0 port is required to connect the computer with this unit.
Display resolution	Resolution of 1280 x 768 or greater
Internet connection	An Internet connection is required for registering the rekordbox user account and downloading the software.

- For the latest information on the required operating environment and compatibility as well as to acquire the latest operating system, see “Software Info” of “DDJ-RB” on the “Pioneer DJ” site and “System Requirements” of “rekordbox.com” below.
  http://pioneerdj.com/support/ http://rekordbox.com/
- Use the latest version/service pack of the operating system.

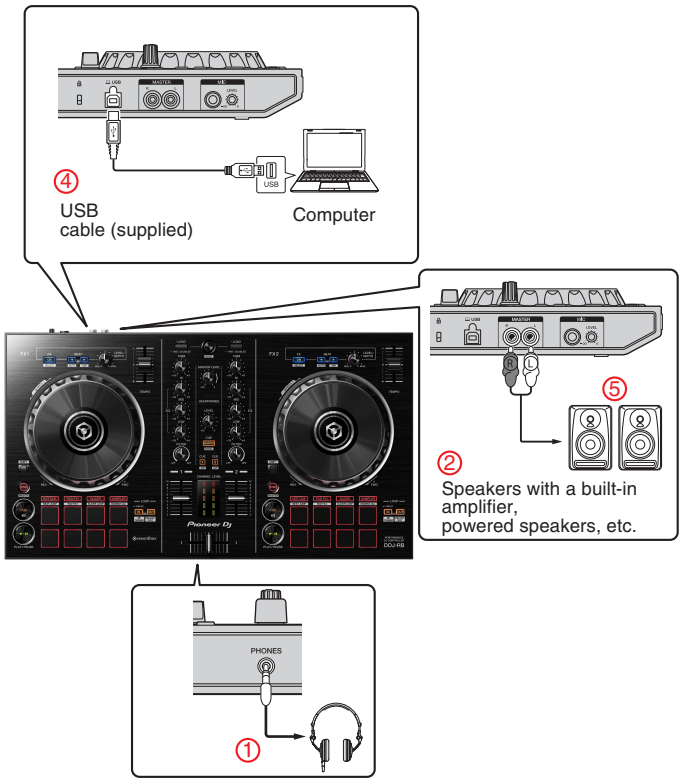
For the latest version of the rekordbox software, access rekordbox.com and download the software from there.
For downloading, registration of a user account at rekordbox is required.
Unzip the downloaded file, then double-click the unzipped file to launch the installer.
Read the terms of the license agreement carefully, and if you agree, select [Agree], then click [Next](Mac OS X: Continue).
After installation is completed, the Installation Completed screen will be displayed. Click on [Finish](Mac OS X: Close) to quit the rekordbox installer.

- Be sure to use rekordbox Version 4.1.1 or later, because the prior versions of rekordbox do not support the DDJ-RB.
- Activation using a license key is required to use PERFORMANCE mode for enabling the DJ performance function of rekordbox.

[Operating procedures]

① Connect headphone to the [PHONES] terminals.
② Connect powered speakers, a power amplifier, components, etc., to the [MASTER] terminals.
③ Turn on the computer’ s power.
④ Connect this unit to your computer via a USB cable.
⑤ Turn on the power of the devices connected to the output terminals (powered speakers, power amplifier, components, etc.).

[Connections]



Starting rekordbox

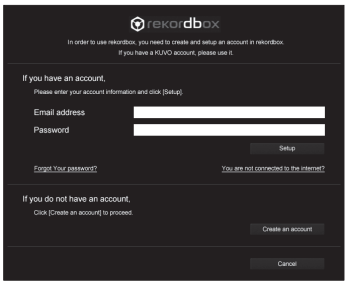
Click the [rekordbox] icon.

For Mac OS X
In Finder, open the [**Applications**] folder, and then click the [**rekordbox**] icon in the [**rekordbox 4**] folder.

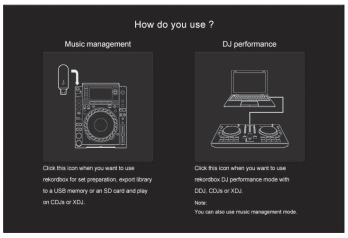
For Windows 10/8.1
In [**Apps view**], click the [**rekordbox**] icon.

For Windows 7
In the Windows [**Start**] menu, click the [**rekordbox**] icon under [**All Programs**] > [**Pioneer**] > [**rekordbox X.X.X**] > [**rekordbox**].

Enter the account information.
If you have an account already, enter the account information, and then click [**Setup**].
If you do not have an account, click [**Create an account**] to create an account.
• For the procedure to create an account, access “rekordbox.com”, and read the rekordbox Manuals on the [**Support**] page.
http://rekordbox.com



Choose the method you will use.
Click [**DJ performance**] icon.



Enter the license key to activate rekordbox dj.
Follow the instruction screens to activate rekordbox dj by entering the license key which is shown on the supplied license key card for “rekordbox dj.”
• For the procedure to activate rekordbox dj, access “rekordbox.com”, and read the rekordbox Manuals on the [**Support**] page.
http://rekordbox.com

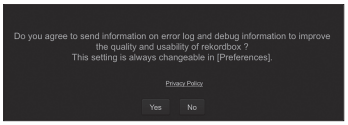
Installing the driver software

1 On the [Audio Driver Install] screen, select [DDJ-RB] from the pull down menu, and then click [Install].
• If you click [**Skip**], refer to the Operating Instructions.

2 Follow the instruction screens to install the audio driver.

Reporting your rekordbox usage statistics

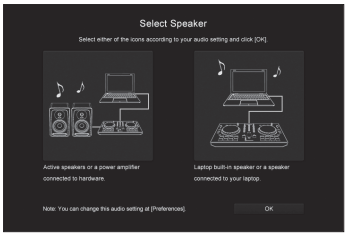
If you agree to your rekordbox usage statistics being sent to the manufactures, to improve rekordbox quality and specifications, click [**Yes**] on the following screen. If you do not agree, click [**No**].



All preparations to use rekordbox are completed.
rekordbox will start.

Audio setup

When starting rekordbox on your computer connected to the unit, [**Select Speaker**] is displayed.
Select an item, and then click [**OK**].



Adding audio tracks into [Collection]

The [**Collection**] screen contains a list of audio track files managed by rekordbox.
Register audio tracks on your computer to rekordbox, and analyze them so they can be used on rekordbox.

1 Click [Collection] on the tree view.

2 Open Finder or Windows Explorer, and then drag & drop audio track files or folders with audio track files into the audio track list.

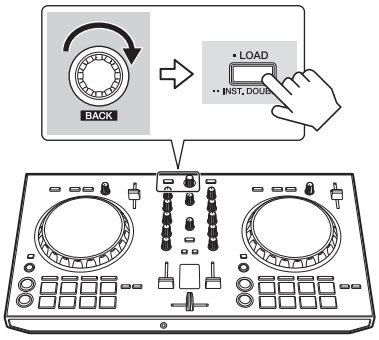
Audio track files are added into [**Collection**], and then analyzing of waveform information for audio track files starts.
Wait until analyzing of all audio track files is completed.

Loading an audio track into a deck of the unit

This section explains how to load an audio track into Deck 1 (left) as an example.

Turn the rotary selector to select an audio track from [Collection], and then press the [LOAD] button on Deck 1 (left).

The selected track is loaded.



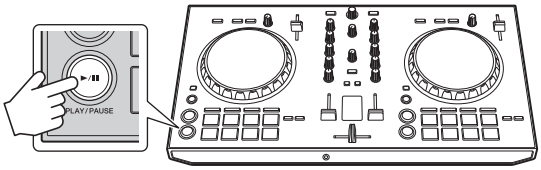
Playing a track

This section explains how to output sound from Deck 1 (left) as an example.

1 Set the positions of the controls, etc., as shown below.

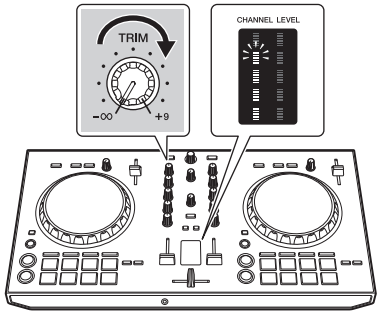
Names of controls, etc.	Position
TRIM control	Turned fully counterclockwise
EQ (**HI**/**MID**/**LOW**) controls	Center position
FILTER control	Center position
Channel fader	Bottom position
MASTER LEVEL control	Turned fully counterclockwise
Crossfader	Center position

2 Press the [PLAY/PAUSE ►/II] button to play the track.

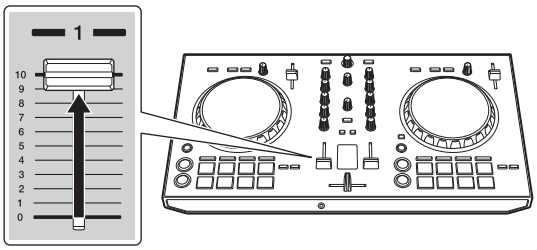


3 Turn the [TRIM] control.

Adjust the [**TRIM**] control so that the [**CHANNEL LEVEL**] indicator's orange indicator lights at the peak level.

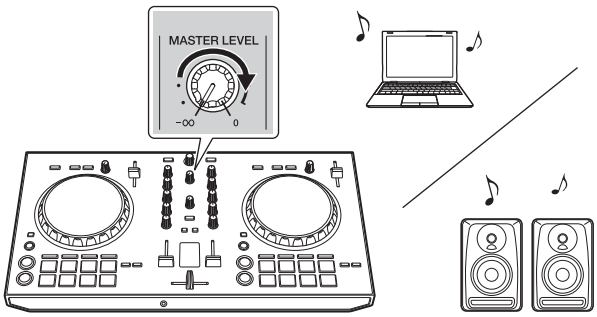


4 Move the channel fader to the maximum level.



5 Turn the [MASTER LEVEL] control to adjust the audio level of the speakers.

Adjust the audio level output from the [**MASTER**] output teminals to an appropriate level.



• The sound is output from the speaker(s) that you selected.

6. SERVICE MODE
6.1 TEST MODE

1. Description of Test Modes

The Following test modes are provided for this unit:

1. Test Mode ①
①-1: Version check mode
①-2: Check mode of the buttons, knobs, etc.
①-3: Factory reset mode
①-4: Voltage value display mode
①-5: Voltage value fluctuation range check mode

2. Test Mode ②
②-1: Measurement mode of the load of JOG dial
②-2: Photo interrupter check mode

2. How to Operate in Test Mode

How to Enter Test Mode ①

How to Enter Test Mode ②

[How to Enter and Shift Test Mode ①]

Power is OFF

Connect the USB cable while pressing the LOAD1 button on the (left) DECK and the HP CUE1 button on the (left) DECK.

Check PIC uCOM

A caution will appear if the firmware of the built-in PIC uCOM is not for DDJ-RB.
The caution will appear right after the Test Mode ① or ② started. All LEDs of the CH level meter will blink.
The caution will be cleared if you press and hold the BROWSE button for more than 5 seconds.
Then you can move on to the service mode.

Test Mode ①-1
Version check mode

* Press the SHIFT button on the (left) DECK to go backward to the previous page.

Press the SHIFT button (right) DECK.

Test Mode ①-2
Check mode of the buttons, knobs, etc.

Press the SHIFT button (right) DECK.

Test Mode ①-3
Factory reset mode

Press the SHIFT button (right) DECK.

Test Mode ①-4
Voltage value display mode

Press the SHIFT button (right) DECK.

Test Mode ①-5
Voltage value fluctuation range check mode

Press the SHIFT button (right) DECK.

[How to Enter and Shift Test Mode ②]

Power is OFF

Connect the USB cable while pressing the LOAD2 button on the (right) DECK and the HP CUE2 button on the (right DECK.

Check PIC uCOM

A caution will appear if the firmware of the built-in PIC uCOM is not for DDJ-RB.
The caution will appear right after the Test Mode ① or ② started. All LEDs of the CH level meter will blink.
The caution will be cleared if you press and hold the BROWSE button for more than 5 seconds.
Then you can move on to the service mode.

Test Mode ②-1
Version check mode

Press the SHIFT button (right) DECK.

Test Mode ②-2
Photo interrupter
check mode

Press the SHIFT button (right) DECK.

* Press the SHIFT button on the (left) DECK to go backward to the previous page.

Test Mode shift button (This applies to Test Mode ① and ②.)
Press the SHIFT button on the (left) DECK to go backward to the previous page.
Press the SHIFT button on the (right) DECK to move forward to the next page.

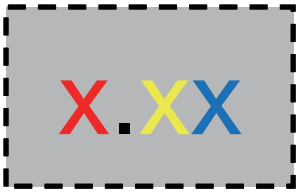
When you press the SHIFT button to enter the new test page, the LED corresponding to each page will blink red for a moment (for 1 to 2 seconds). After the "red-blinking" is over and the light is off, the testing of each page will start.

3. Description of Test Mode

①-1: Version check mode

This mode is to check the version of the firmware.
The version is displayed using the deck LEDs following red, yellow and blue frame border colors in triple-digit decimal number.

[Version dislay]



* When all horizontal LEDs are turned off, it means zero (0).

①-2: Check mode of the buttons, knobs, etc.

This mode is for confirming operation of all operating elements (buttons, knobs, etc.) located on the upper and front panels.

* Buttons except for the mode and PAD buttons : The light turns on when the button is pressed and goes off when the button is released.
  The mode and PAD buttons : The light turns on and off each time the button is pressed (toggle mode).

	Element type	UI Part Name	Trigger	LED to check
	Push switches (with LED)	————	Press	Own LED
	Push switches (w/o LED)	Brows	Press	All LEDs light up -> all LEDs dimmer out -> Light off
		SHIFT (Left/Right)	————	————
		LOAD (Left/Right)	Press	CUE
		JOG (TOUCH)	Press	PLAY
TYPE A	FX LEVEL/DEPTH knob	————	Rotate	TYPE A (*1)
TYPE B	JOG dial (rotation) BROWSE rotary selector	————	Rotate	TYPE B (*2)
TYPE C	TEMPO slider, channel fader, TRIM control,EQ(HI/MID/LOW) controls, FILTER control	————	Rotate (Slide)	TYPE C (*3)
TYPE D	MASTER LEVEL control, Crossfader, HEADPHONE LEVEL control	————	Rotate (Slide)	TYPE D (*4)

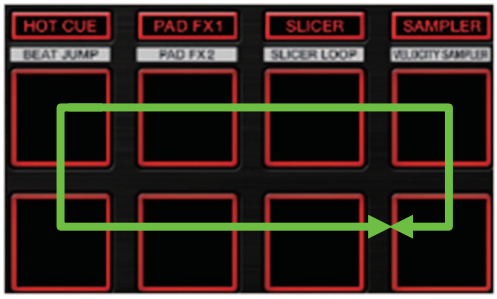
Basic rule: Except for TYPE B, the number of lighting LEDs will change based on the position of each control/fader.
(i.e., when the volume is minimum, no LED will light up; when the volume is maximum, all LEDs will light up.)

TYPE A (* 1)

The position (min. to max.) of the knob will be displayed using the following 4 LEDs: HOT CUE/PAD FX1/SLICER/SAMPLER.
Starting from left, LEDs will light up according to the position of the knob right after each knob is rotated.

TYPE B (* 2)

The position of the rotary encoder will be displayed using the following 8 LEDs.



TYPE C (* 3)

The position of the of the knob/fader will be displayed using the following 5 LEDs for each CH according to the move.
The LEDs will light up according to the position of the knob/fader right after each knob is rotated/fader is moved.

TYPE D (* 4)

The position of the knob/fader will be displayed using the following LEDs for both CHs according to the move.
The LEDs will light up according to the position of the knob/fader right after each knob is rotated/fader is moved.
* CROSS FADER: No LED will light up when it is in far right; All LEDs will light up when it is in far left.

①-3: Factory reset mode

The following settings will be reset back to the factory default by pressing and holding both of the SYNC buttons of the left and right DECKs for 1 sec.

#	Setting Item	Default Value
1	MIDI MODE	AUTO*1 (Factory default) Genaral DJ App.
2	Master output Mono/Stereo switching	Mono Stereo (Factory default)
3	Master output Peak limiter	Disable Enable (Factory default)
4	Mic output Peak limiter	Disable Enable (Factory default)
5	DEMO MODE	OFF 1 min. after no operation 5 min. after no operation 10 min. after no operation (Factory default)

*1: AUTO mode

rekordbox DJ application:	rekordbox DJ mode
Other application:	General DJ App. mode
rekordbox DJ and other application:	rekordbox DJ mode

When the SYNC buttons on the both DECKs are pressed and hold at the same time, the LEDs of these buttons will light.
After the reset is complete, the PADs on the both DECKs will light in red.
When the reset failed, the SYNC buttons will flash.

Press and hold for 1 sec at the same time

①-4: Voltage value display mode

This mode is to monitor and indicate values of voltages (A/D conversion values) of various controls (faders and knobs).

[Controls to be tested]

The target controls of the test is faders and controls indicated in green in the figure below.
To change the target of the test, turn the rotary selector (BROWSE) clockwise or counterclockwise.

Rotary selector (BROWSE)

[Test procedures]

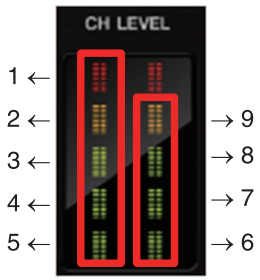
1. Select a test target by turning the rotary selector clockwise or counterclockwise.
   At the beginning of this test mode, the control numbered 1 is selected.
   As the rotary selector is turned by 1 click, the LED of the selected control will light in the order indicated below.
   Clockwise rotation: 1→ 2→ 3→ 4→-...→ 18→ 19
   Counterclockwise rotation: 19→ 18→ 17→-...→ 2→ 1

2. Which control is currently selected is indicated with lighting of the LED of the button corresponding to the selected control, as shown in the figure above.
   The LED with a number colored white corresponds to the control having the same number.

3. After the control to be tested is selected, press the rotary selector to start monitoring the A/D conversion values.
   The reference value is the A/D conversion value monitored immediately after the monitoring started.
   * The A/D conversion values being monitored are raw data.

4. The A/D conversion values being monitored are indicated with the CH level indicator.
   The value range that can be displayed is from 0 to 1023.

[How to check the CH level indicator]



* When all LEDs of the CH level indicator is turned off, it means zero (0).

[Display of the 1st digit]

XXXX HP CUEs and CH Level indicators are all turned off

2 sec laters

[Display of the 2nd digit]

xXXX

2 sec laters

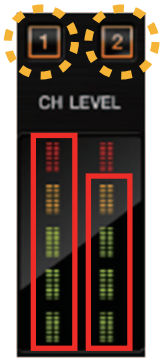
[Display of the 3rd digit]

xxXx

2 sec laters

[Display of the 4th digit]

xxxX



2 sec laters

①-5: Voltage value fluctuation range check mode

This mode is to monitor and indicate values of voltages (A/D conversion values) of various controls (faders and knobs).

[Controls to be tested]

The target controls of the test is faders and controls indicated in green in the figure below.
To change the target of the test, turn the rotary selector (BROWSE) clockwise or counterclockwise.

Rotary selector (BROWSE)

[Test procedures]

1. Select a test target by turning the rotary selector clockwise or counterclockwise.
   At the beginning of this test mode, the control numbered 1 is selected.
   As the rotary selector is turned by 1 click, the LED of the selected control will light in the order indicated below.
   Clockwise rotation: 1→ 2→ 3→ 4→-...→ 18→ 19
   Counterclockwise rotation: 19→ 18→ 17→-...→ 2→ 1

2. Which control is currently selected is indicated with lighting of the LED of the button corresponding to the selected control, as shown in the figure above.
   The LED with a number colored white corresponds to the control having the same number.

3. After the control to be tested is selected, press the rotary selector to start monitoring the A/D conversion values.
   The reference value is the A/D conversion value monitored immediately after the monitoring started.
   * The A/D conversion values being monitored are raw data.

4. The A/D conversion values being monitored are indicated with the CH level indicator.
   If no fluctuations from the reference A/D value are monitored, all LEDs of the level indicator remain unlit.
   In response to fluctuations from the reference A/D conversion value, the corresponding LEDs light.

   After starting measurement. all A/D values of the controls are monitored and the result is displayed as described in the following table. If you wish to measure again, press the SHIFT button once move to another mode.
   It will return again to this mode, then push the rotary selector (BROWSE).

   * Lighting status of the level indicator shows that of the maximum value of plus and minus direction.

	1	+4 from the reference value A/D conversion value	The 1st to be lit from the bottom of the right CH level indicator.
	2	+8 from the reference value A/D conversion value	The 1st - 2nd to be lit from the bottom of the right CH level indicator.
	3	+12 from the reference value A/D conversion value	The 1st - 3rd to be lit from the bottom of the right CH level indicator.
	4	+16 from the reference value A/D conversion value	The 1st - 4th to be lit from the bottom of the right CH level indicator.
	5	over +20 From the reference value A/D conversion value	The 1st - 5th to be lit from the bottom of the right CH level indicator.
	6	-4 from the reference value A/D conversion value	The 5th to be lit from the bottom of the left CH level indicator.
	7	-8 from the reference value A/D conversion value	The 4th - 5th to be lit from the bottom of the left CH level indicator.
	8	-12 from the reference value A/D conversion value	The 3rd - 5th to be lit from the bottom of the left CH level indicator.
	9	-16 from the reference value A/D conversion value	The 2nd - 5th to be lit from the bottom of the left CH level indicator.
	10	under -20 From the reference value A/D conversion value	The 1st - 5th to be lit from the bottom of the left CH level indicator.

②-1: Measurement mode of the load of JOG dial

This mode is to measure the load of JOG dial. When the measurement mode starts, FX1 ON of the left DECK will light up.
When the JOG dial is rotated swiftly, measurement for the top speed and the time required for slowdown will begin.
When the rotation speed of the Jog dial exceeds 7 times normal speed, the time required for slowdown will be assessed whether it is in the range or not. The result will be displayed on LED.

Top speed	: when normal speed is defined as one rotation in 1.8 sec
Time required for slowdown	: Time required for the jog dial to decrease its rotation speed

Operation procedures

1. Spin the Jog dial swiftly.
   To start measurement, the maximum Jog rotation speed must be 7 times normal speed or higher.
   If the maximum speed does not reach 7.0 times normal speed, PAD LEDs (8 PADs)will blink several times.

2. The number of sessions will be displayed up to four sessions on LED as follows.

The end of 1st session	HOT CUE lighting
The end of 2nd session	PAD FX1 lighting
The end of 3rd session	SLICER lighting
The end of 4th session	SAMPLER lighting
After the end of 4th session	remain unchaged

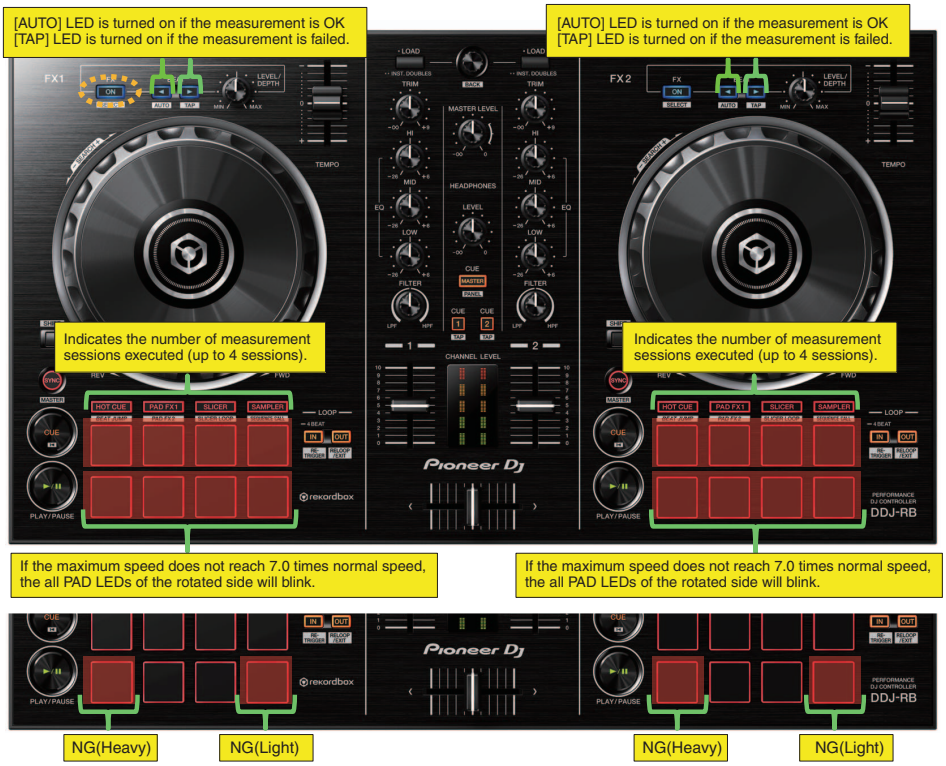
3. The result will be displayed on LED.

OK	[AUTO] LED is turned on
NG (failed)	[TAP] LED is turned on.

4. When the measurement is failed, PAD LED indicates as follows.

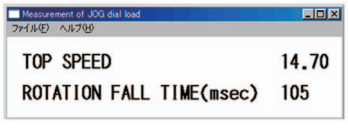
NG (Heavy)	PAD[5] lightin
NG (Light)	PAD[8] lighting

The number of measurement sessions executed is displayed up to 4 sessions.
The measurement can be continued 5 sessions and more, however the number of sessions will not be displayed.
When the session ended, an average is taken each time and the result will be displayed on LED.
Regulation value is 100 ± 40 [msec]. (The specification is subject to change.)



The measurement result

You can check the measurement result using "JOG_Checker.exe".



②-2: Photo interrupter check mode

This mode is to check the status of Photo interrupter.
When the measurement mode starts, FX1 ON of the right DECK will light up.

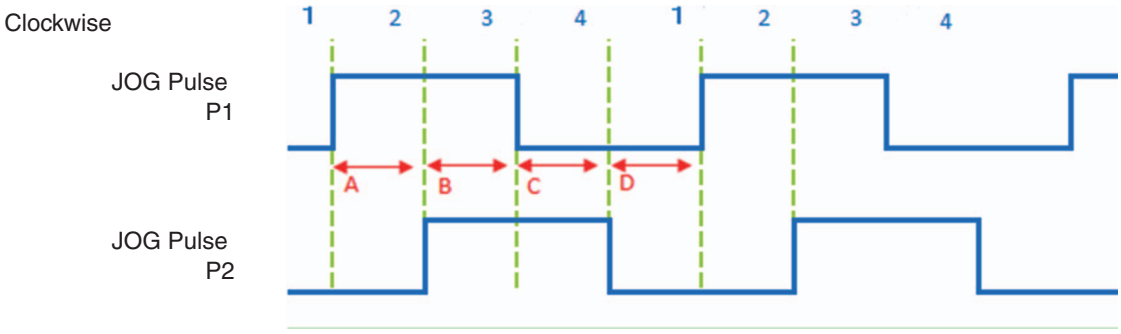
Operation procedures

1. Spin the Jog dial swiftly.
   To start measurement, the maximum Jog rotation speed must be 10 times normal speed or higher.
   If the maximum speed does not reach 10 times normal speed, no result will be displayed.

2. The number of sessions will be displayed up to four sessions on LED as follows.

The end of 1st session	HOT CUE lighting
The end of 2nd session	PAD FX1 lighting
The end of 3rd session	SLICER lighting
The end of 4th session	SAMPLER lighting
After the end of 4th session	remain unchaged

3. If the measurement result is OK, [AUTO] LED is turned on.
   If the measurement is failed, [TAP] LED is turned on.



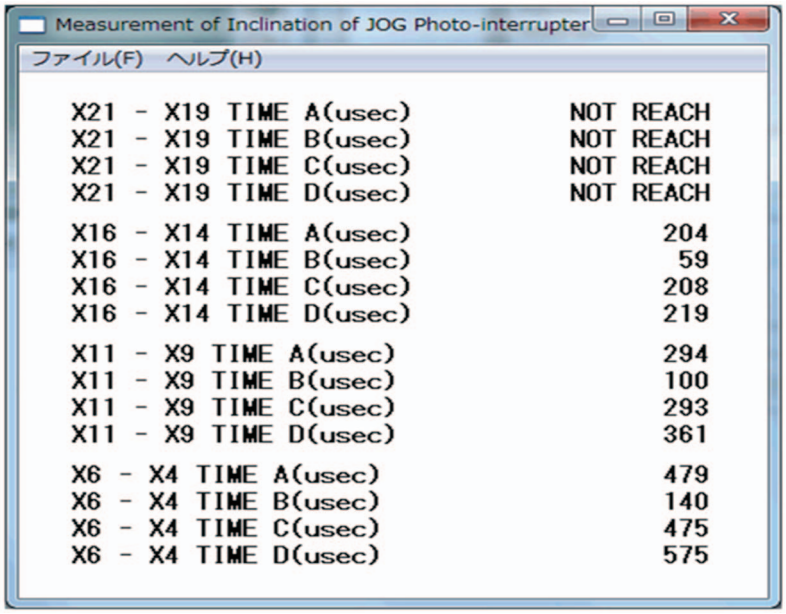
Time A - D will be memorized in each range of the speed: x21~x19/ x16~x14/ x11~x9/ x6~x4.

OK When phase relation is normal, and the minimum value of all the A -D is 10 usec or greater, and the time of [x11~x9] (clockwise: "D"; counterclockwise: "C") is 200 usec or greater. -----[AUTO] lighting

NG When none of these conditions described above is not satisfied. ------[TAP] lighting

The measurement result

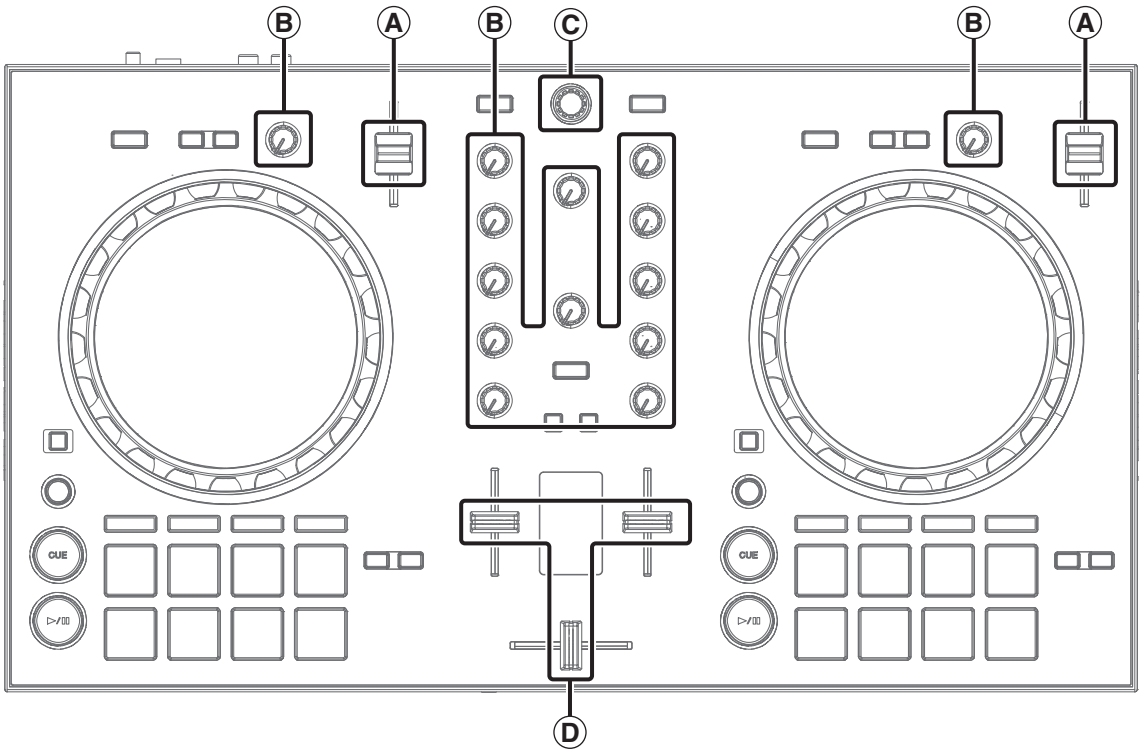
It is able to check the measurement result using "JOG_PhotoInterrupter2.exe".



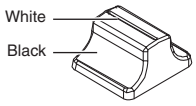
7. DISASSEMBLY

Note:
Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

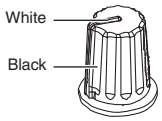
Knobs and Volumes Location



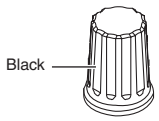
Ⓐ DNK6530 ×2



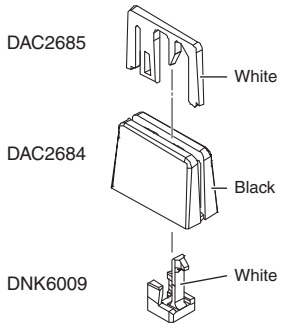
Ⓑ DAA1324 ×14



Ⓒ DAA1273 ×1



Ⓓ DAC2684 ×3 + DAC2685 ×3 + DNK6009 ×3

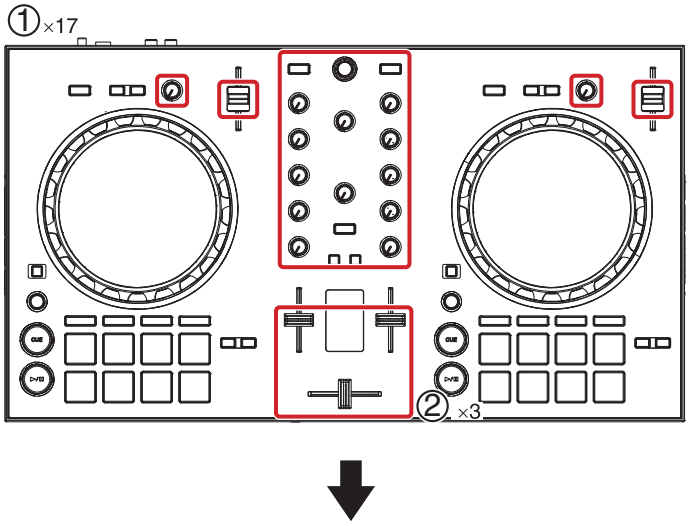


Disassembly

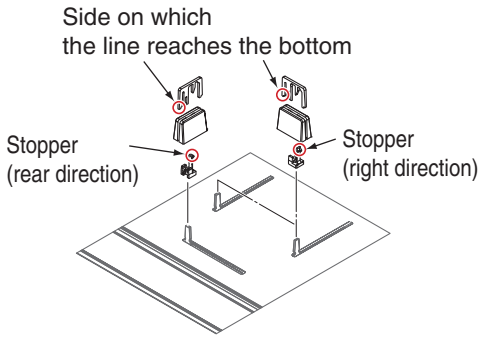
[1] Each PCB Assemblies

• Exterior Section

(1) Remove the all knobs.
(2) Remove the 3 Silider knobs 2, 3 Slider knobs 1, and 3 Stoppers/SLD. (See below.)



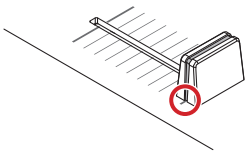
The reference of the direction



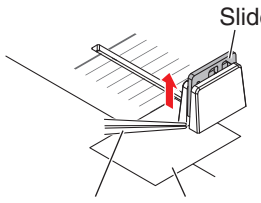
• Disassembly of the slider knob

The new slider knob adopted by this product is designed so that it is not pulled out easily.
Therefore, the method for removing the slider knob is different from the conventional method; it can only be pulled out after Slider knob 2 is removed.

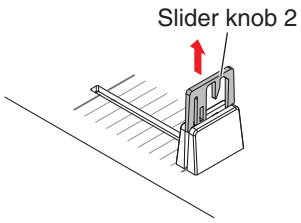
① Find the side on which the line reaches the bottom.



② Insert a pair of tweezers etc. beneath the line then push the Slider knob 2 upward. To protect the panel from being scratched, use protective material.

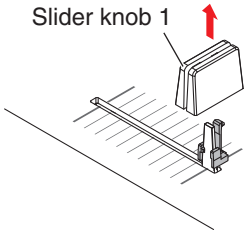


③ Remove the Slider knob 2.

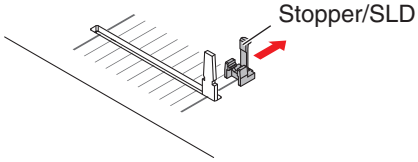


*: During reassembly, fully push down Slider knob 2 until it is dented into Slider knob 1.

④ Remove the Slider knob 1.

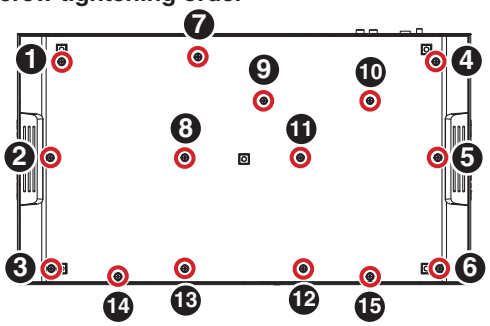


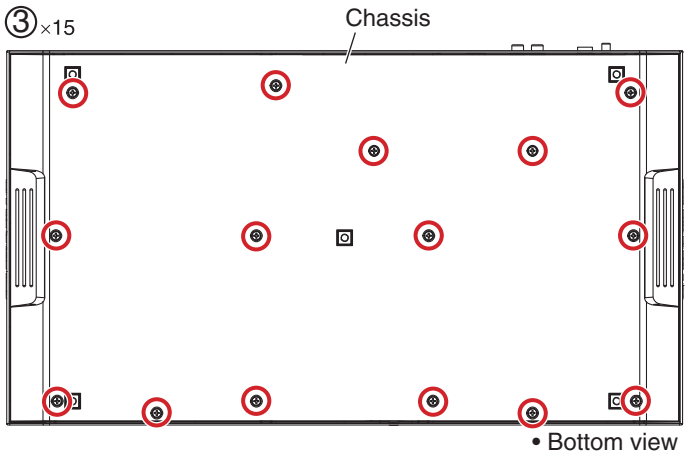
⑤ Remove the Stopper/SLD.



(3) Remove the Chassis by removing the 15 screws.
(BPZ30P120FTB)

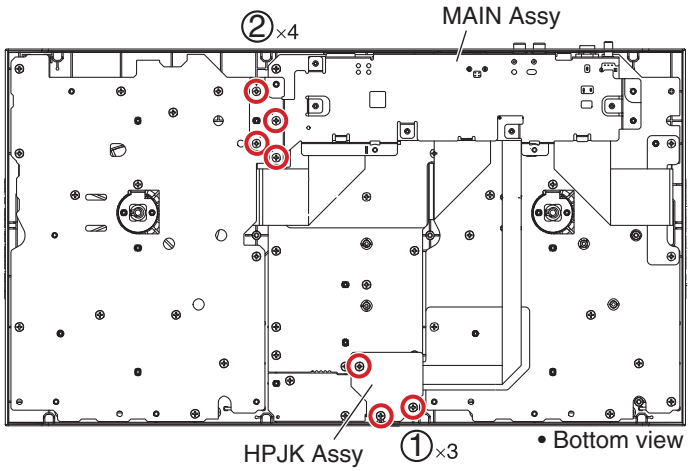
Screw tightening order



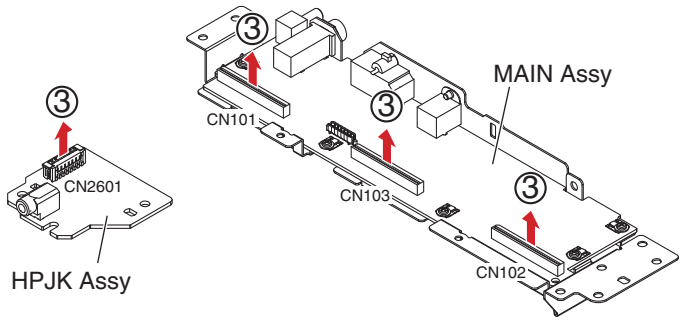


• HPJK and MAIN Assemblies

(1) Remove the HPJK Assy by removing the 3 screws.
(BPZ30P080FNI)
(2) Remove the MAIN Assy with Stay by removing the 4 screws.
(BPZ30P080FNI)

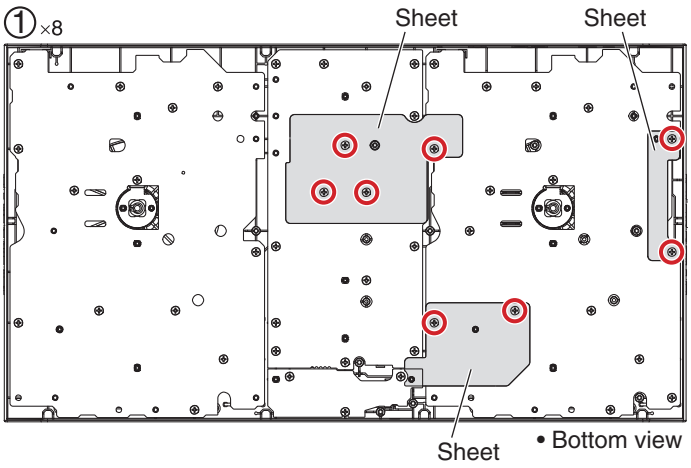


(3) Disconnect the 3 flexible cables and 1 jumper wire.
(CN101 to 103, 2601)

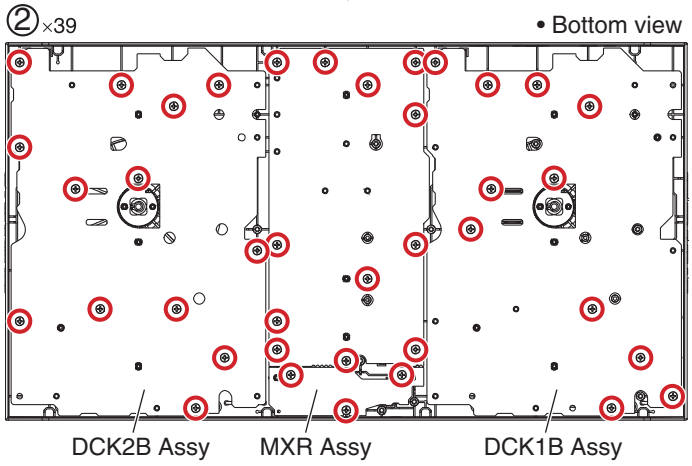


• **DCK1B, DCK2B and MXR Assemblies**

(1) Remove the 3 Sheets by removing the 8 screws. (BPZ30P080FNI)

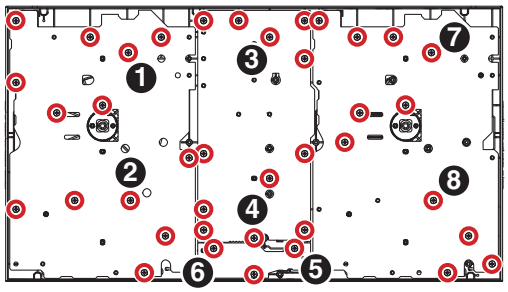


(2) Remove the DCK1B, DCK2B and MXR Assy by removing the 39 screws. (BPZ30P080FNI)

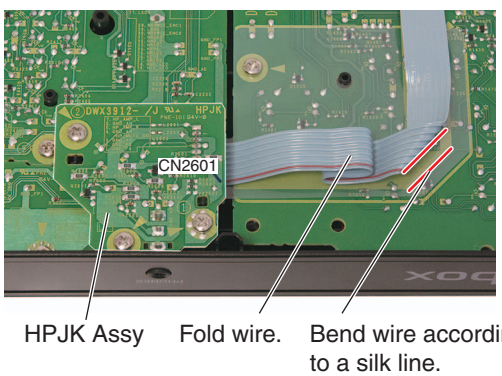


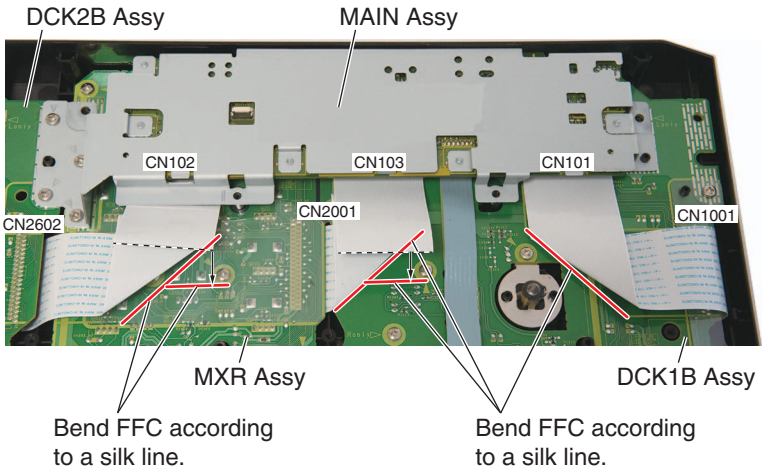
Screw tightening order

The other screws are random order.



Jumper wire styling





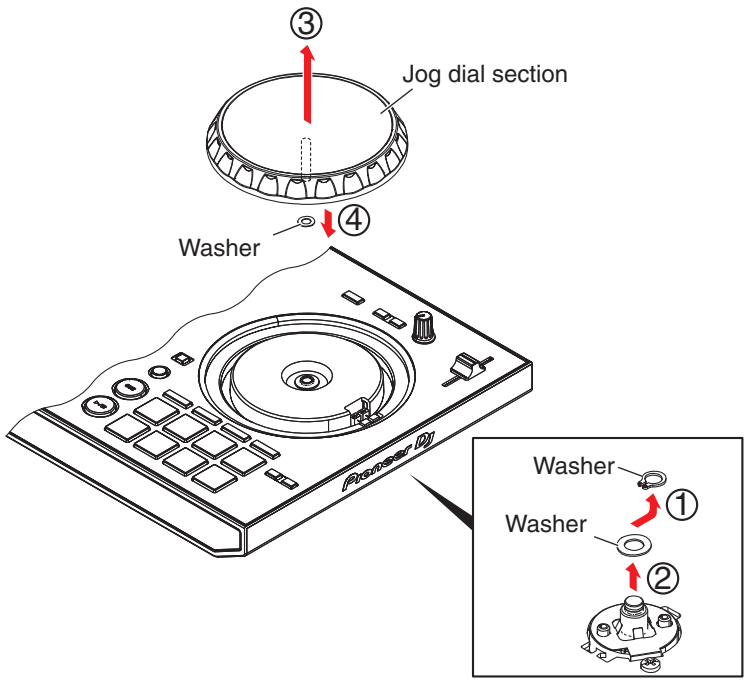
[2] Jog dial Section

Note:
When you remove the Jog dial section, it is not necessary to remove the each PCB Assemblies.
A figure is only Right DECK side, but the left DECK side is similar, too.

Remove the chassis by removing the 15 screws.
(BPZ30P120FTB)

(1) Remove the one washer.
(YC60FAC)
(2) Remove the one washer.
(WA62D095D050)
(3) Remove the Jog dial section.
(4) Remove the one washer.
(WA62D095D050)

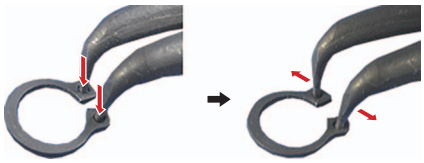
* When you reassemble the Jog dial section, work on grease application according to "Procedure for applying grease during reassembly of the Jog dial" of the next clause.



For Disassembly/Assembly of Washer (①: YC60FAC)

Please use the jig. (Recommend Snap ring pryor.)

Insert the jig in the hole. Open the jig.

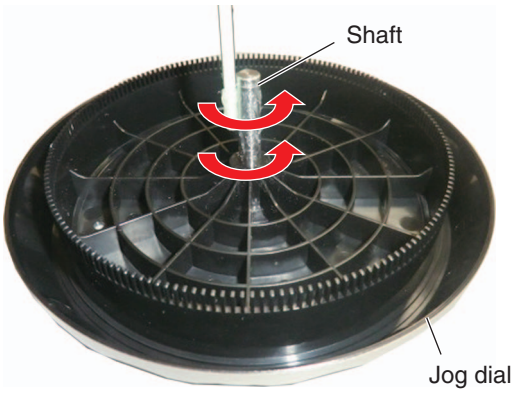


Procedure for applying grease during reassembly of the Jog dial

[Cases where the Jog dial is required to be detached]
- When the Jog dial is to be replaced
- When the control panel is to be detached for replacement

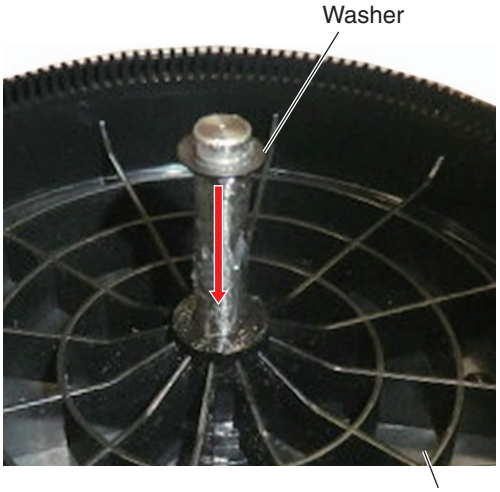
After the control panel is detached, carefully wipe off the grease from the Jog dial, as well as from the shaft bearing, then apply new grease, in the following manner:
Grease to be used: GEM1100

(1) Apply grease to the tip and base of the shaft of the Jog dial, one round each.



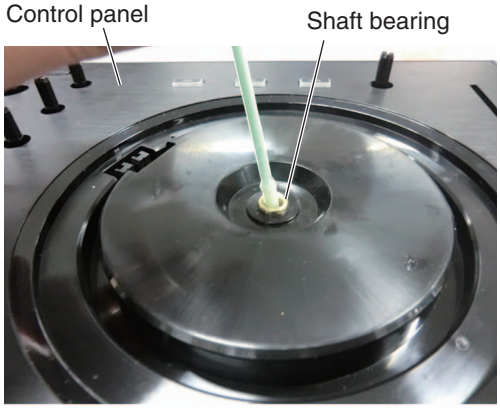
• Bottom view

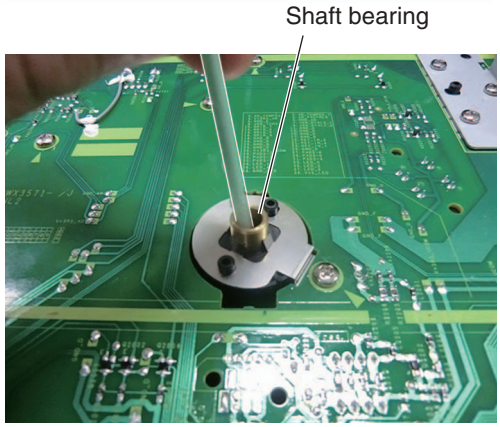
(2) Put a washer (WA62D095D050) on the shaft and place it at the base of the shaft.



• Bottom view

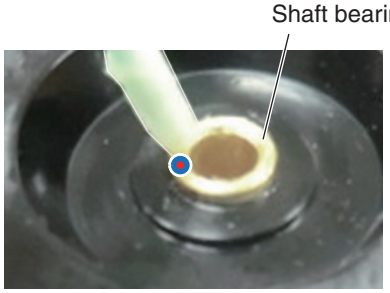
(3) Apply grease lightly to the shaft bearing of the control panel up to a depth of approximately 10 mm from the upper-panel side. Then turn the control panel over and apply grease from the opposite side in the same manner.





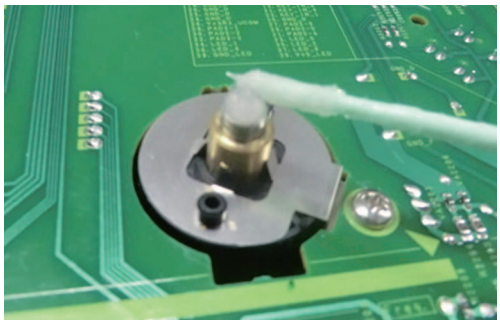
• Bottom view

(4) Turn the control panel over again then apply a small amount of grease to one point of the shaft bearing on the upper-panel side.



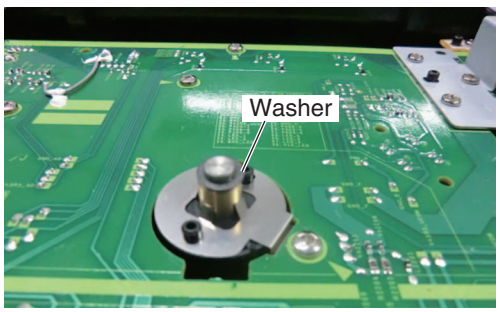
(5) Insert the Jog dial in the shaft bearing while turning it.

(6) Turn the control panel over then wipe off the excess grease.



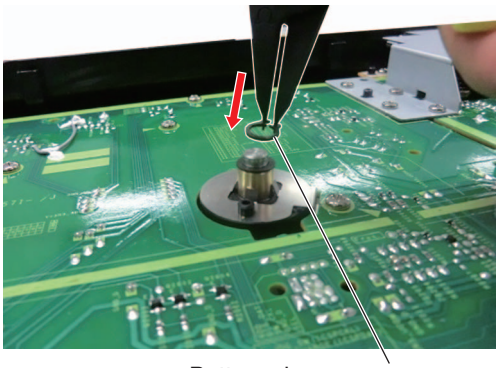
• Bottom view

(7) Put the washer (WA62D095D050) on the shaft.



• Bottom view

(8) Put the washer (YC60FAC) on the groove of the shaft.



• Bottom view

The washer must be properly fit with the groove.

• Bottom view

(9) Turn the control panel over then check that the Jog dial rotates properly.

(10) Perform manual running-in rotations of the Jog dial, as indicated below.

① Turn the Jog dial manually 50 rotations.

② Perform failure judgment of the Jog dial.
For details on the measurement method, see "②-1: Measurement mode of the load of JOG dial" in "6. SERVICE MODE."

③-1 In a case of failure because of excessive load, repeat the following procedure until a good result is obtained in failure judgment.
Manually turn the Jog dial 50 rotations then perform failure judgment of the Jog dial again.

③-2 In a case of failure because of insufficient load, apply grease again.
(Repeat the above procedures from Step (1).)

Note:
After disassembly, be sure to wipe off any externally accessible grease.

8. EACH SETTING AND ADJUSTMENT
8.1 NECESSARY ITEMS TO BE NOTED

After repairing, be sure to check the version of the firmware, and if it is not the latest one, update to the latest version.
Perform the each item when the following parts or PCB Assemblies are replaced.

• IC and PCB Assy storing firmware / user settings FLASH ROM (IC408: MAIN Assy) MAIN Assy	⇨ • Confirmation of the version of the firmware • Updating to the latest version of the firmware • Factory reset • Be changed user setting to condition before the repair (when be possible)
• Jog dial	⇨ • Judging the quality of the Jog dial load * at the "NG" judgment execute habituation of the grease again.
• PC1201, PC1202 (DCK1 Assy, DCK2 Assy)	⇨ • Judging the quality of mounting and connection of the photointerrupter

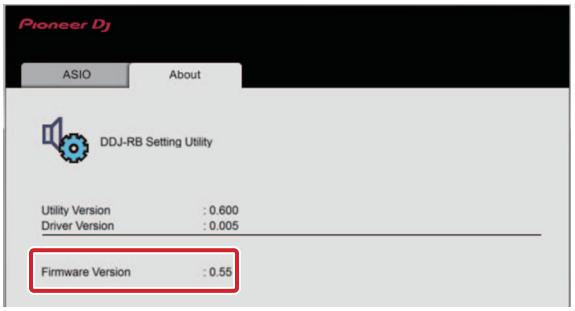
8.2 UPDATING OF THE FIRMWARE

A. Check the current DDJ-RB version.

1. Connect your computer with DDJ-RB.

2. Start the Setting Utility on your PC, as follows:
   With Windows OS:
   Select Start, All Programs, Pioneer, DDJ-RB, then the DDJ-RB Setting Utility.
   With Mac OS:
   Select Applications, Pioneer, DDJ-RB, then the DDJ-RB Setting Utility.

3. Check the firmware version.
   If the firmware version displayed on the About tab is x.xx.



B. Check the downloaded file.

1. Unzip the downloaded file.
   For Windows:
   Save the downloaded file [DDJ-RB_vxxx_Win_E.zip] to an arbitrary directory such as desktop and unzip it.

   For MacOS:
   Save the downloaded file [DDJ-RB_vxxx_Mac_E.dmg] to an arbitrary directory such as desktop and double click to mount it.

2. Check the unzipped file.
   For Windows:
   The [DDJ-RB_vxxx_Win_E] folder is generated when the file is unzipped.
   Please ensure the following file is included in the folder.
   ① [DDJ-RB_vxxx.exe]
   ② [DDJ-RB_update_manual_e.pdf]

   For MacOS:
   The [DDJ-RB_vxxx_Mac_E] folder is generated when the file is extraced.
   Please ensure the following file is included in the folder.
   ① [DDJ-RB_vxxx.app]
   ② [DDJ-RB_update_manual_e.pdf]

• xxx is the version of the new firmware.
• Extension (.exe or .app) might not be shown depending on your computer settings.

C. Set up DDJ-RB for updating:

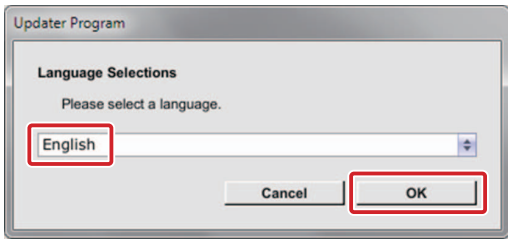
1. Go into update mode.
   While holding [Left DECK SYNC] and [Left DECK SHIFT] buttons, connect the USB cable to the computer to go into update mode.
   The MASTER CUE LED blinks when in the update mode.

D. Update the firmware from your computer:

1. Start updating your firmware.
   Close all the applications before you start updating.

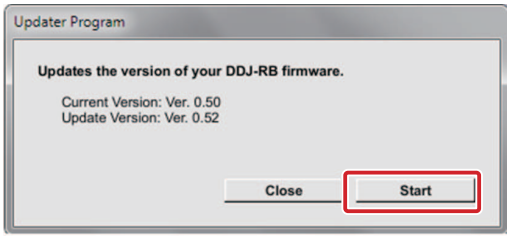
<STEP1> Start the updater program.
   For Windows:
   Double click [DDJ-RB_vxxx.exe] to start the updater program.
   For MacOS:
   Double click [DDJ-RB_vxxx.app] to start the updater program.

<STEP2> Select a language.
   Select a language from the dropdown list and click [OK].
   The figure below shows selecting English.

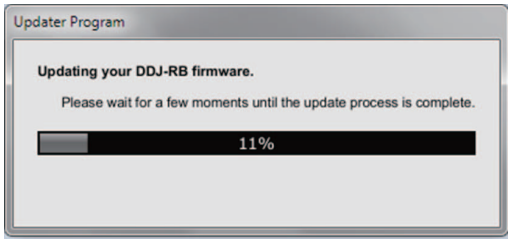


· If the message "Your DDJ-RB is not connected" is displayed when you click on [OK], see "Corrective actions to be taken when 'Your DDJ-RB is not connected' is displayed:" described later.

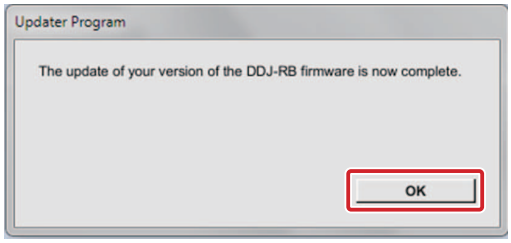
<STEP3> Check the version.
   Ensure that the version for this update is x.xx and click [Start].
   The figure below shows an example.
   DO NOT remove the USB cable during updating.
Use the AC adapter when a notebook computer is used.



Update screen during updating
Please wait until the progress bar on the screen reaches 100%.



<STEP4> Update screen when the update is completed
Make sure that the update process has been completed.
When the following “Update completed” message appears, click [OK].

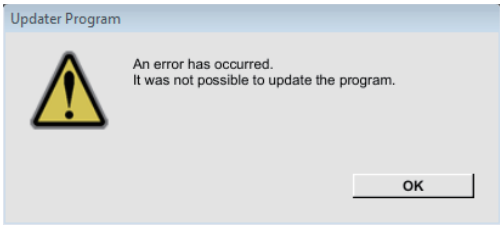


<STEP5> Restart DDJ-RB.
Please turn off the power of DDJ-RB and then turn it on again.

E. Check the current version.

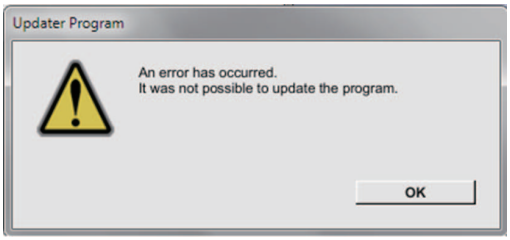
Check the firmware version of DDJ-RB in the same procedure with "A. Check the current DDJ-RB version.".
Update is completion if you consist in the version that a firmware version wants to update.

If updating failed:
If the error message shown below is displayed during updating, disconnect the USB cable then proceed with the steps from the beginning.



Corrective actions to be taken when "Your DDJ-RB is not connected" is displayed:

If "Your DDJ-RB is not connected" is displayed after selection of the language, check the following:



· Is the USB cable connected to the computer?
If it is not, connect the cable to the computer then perform the updating procedure again.
· If the above-mentioned message is displayed even if the USB cable is connected to the computer, perform the updating procedure indicated below.
① Uninstall the DDJ-RB driver software.

[How to uninstall the DDJ-RB driver software]
With Windows OS:
Click on Start, Control Panel, Programs, Programs and Functions, Pioneer DDJ-RB Driver, then Uninstall.

With Mac OS:
Double-click on the driver-software icon then double-click on "DDJ-RB Uninstaller.app."
Follow the instructions displayed on the screen of the PC.

Visit the Website indicated below to download the latest version of the driver software:
http://pioneerdj.com/support/index.php?lang=ja

② Update the firmware again.
③ After updating of the firmware is completed, install the driver software again.
For details on how to install the driver software, refer to the operating instructions of the DDJ-RB.

[Reference Information]
You can run this updater program only on the following OS:
Windows: Windows 10/ Windows 8.1 / Windows 7
MacOS: OS X 10.11/ 10.10/ 10.9

It will take approximately 1 minutes to complete the update process.

The screen displays shown in this manual are under development and are subject to change.

8.3 ITEMS FOR WHICH USER SETTINGS ARE AVAILABLE

This unit is provided with user settable items, as shown below.
Although no serious operational problems occur even if data for such user settable items are cleared during repair, it is recommended that you take note of those settings before starting repair.
Use the Check Sheet, to which you can transcribe the settings.
If the corresponding part or board Assy is replaced for repair, change the user resettable settings to those noted on the Check Sheet before starting repair. If resetting is not possible, when returning the repaired product, be sure to tell the customer that the Utility settings have been cleared and will have to be reset, as required.

Item for Which User's Setting is Available		Setting Value (The factory default settings are indicated in bold.) / Indication method	Part Name	Content to be Stored
Utilities modes	MIDI MODE setting	**AUTO**/Compulsion (GeneralDJApp) [FX ON] button off/[FX ON] button lit	IC408 (MAIN Assy)	Utility setting
	MASTER output monaural/ stereo switching	Monaural/**Stereo** [HOT CUE] button off/[HOT CUE] button lit		
	MASTER output peak limiter	Setting disabled/**Setting enabled** [PAD FX1] button off/[PAD FX1] button lit		
	MIC output peak limiter	Setting disabled/**Setting enabled** [SLICER] button off/[SLICER] button lit		
	DEMO MODE setting	OFF/1 minute after no operation/5 minute after no operation/ /**10 minute after no operation** Performance pad on the left deck: 1st pad lit/2nd pad lit/3rd pad lit/4th pad lit		

Each of the above items can be set in Utilities modes.
To enter Utilities mode,
while pressing both SHIFT and PLAY/PAUSE buttons on the left deck, connect the USB cable to the main unit (main unit is turned on).
For changing the settings, refer to the operating instructions of the unit.

Sheet for confirmation of the user setting

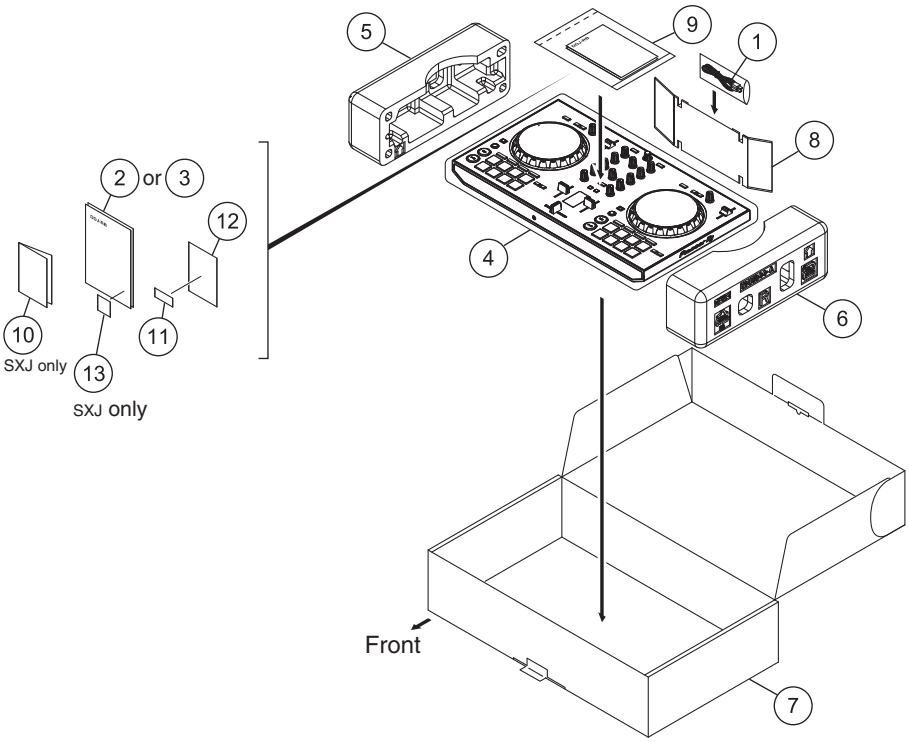
MIDI MODE setting		MASTER output monaural/stereo switching		MASTER output peak limiter		MIC output peak limiter	
AUTO	Compulsion (GeneralDJApp)	monaural	stereo	disabled	enabled	disabled	enabled

DEMO MODE seting			
OFF	1 minute after no operation	5 minute after no operation	10 minute after no operation

9. EXPLODED VIEWS AND PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
● *Screws adjacent to ▼ mark on product are used for disassembly.*
● *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

9.1 PACKING SECTION



(1) PACKING SECTION PARTS LIST

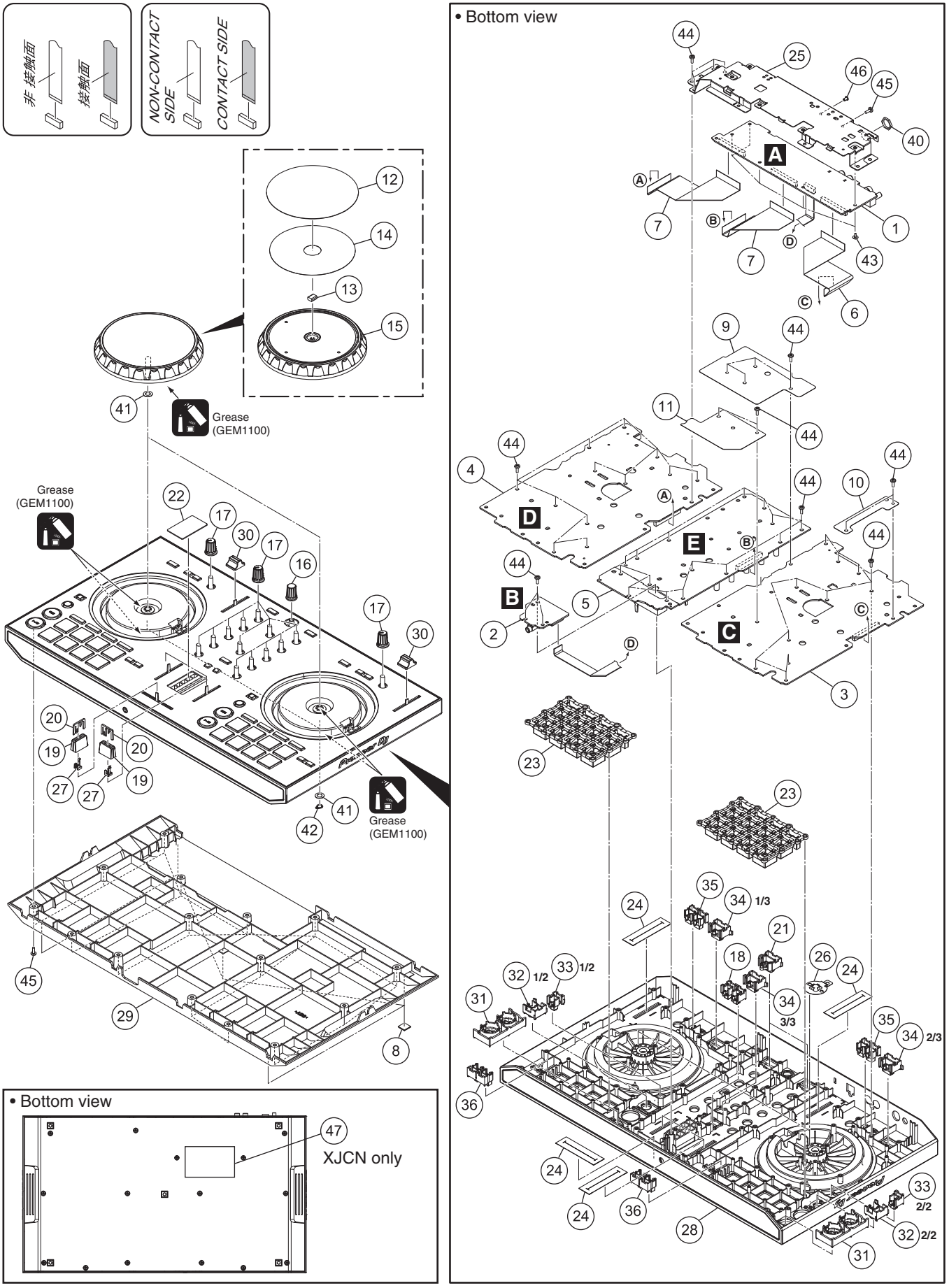
Mark	No.	Description	Part No.
	1	USB Cable	DDE1128
	2	Operating Instructions (Quick Start Guide) (En, Fr, De, It, Nl, Es, Pt, Ru, Ja)	See Contrast table (2)
	3	Operating Instructions (Quick Start Guide) (Zhcn)	See Contrast table (2)
	4	Packing Sheet	AHG7053
	5	Packing Pad	DHA1943
	6	Packing Pad	DHA1944
	7	Packing Case	See Contrast table (2)
	8	Partition/ACC	DHC1085
NSP	9	Polyethylene Bag	AHG7117
NSP	10	Warranty (for some regions)	See Contrast table (2)
NSP	11	License key card for "rekordbox dj"	DXA2304
NSP	12	Leaflet	DRM1410
	13	Label/IM1	See Contrast table (2)

(2) CONTRAST TABLE

DDJ-RB/SXJ and XJCN are constructed the same except for the following:

Mark	No.	Symbol and Description	DDJ-RB/SXJ	DDJ-RB/XJCN
	2	Operating Instructions (Quick Start Guide) (En, Fr, De, It, Nl, Es, Pt, Ru, Ja)	DRH1368	Not used
	3	Operating Instructions (Quick Start Guide) (Zhcn)	Not used	DRH1370
	7	Packing Case	DHG3464	DHG3479
NSP	10	Warranty (for some regions)	DRY1270	Not used
	13	Label/IM1	DRW2534	Not used

9.2 EXTERIOR SECTION



(1) EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	MAIN Assy	DWX3907
	2	HPJK Assy	DWX3912
	3	DCK1B Assy	DWX3908
	4	DCK2B Assy	DWX3910
	5	MXR Assy*	DWX3911
	6	FFC	DDD1771
	7	FFC	DDD1772
	8	Rubber Foot	VEB1349
	9	Sheet	DEC3690
	10	Sheet	DEC3691
	11	Sheet	DEC3692
	12	Plate	DAH3113
	13	Gasket/JOG	DEC3539
	14	DS Tape/JOG	DEH1042
	15	Jog Dial	DNK6638
	16	Dial Knob S (B)	DAA1273
	17	Knob/PLS	DAA1324
	18	Button/FX	DAC2796
	19	Slider Knob 1	DAC2684
	20	Slider Knob 2	DAC2685
	21	Button	DAC3151
	22	Plate	DAH3036
	23	Button	DEB2043
	24	Fader Packing	DEC3355
	25	Stay	DNH3275
	26	Plate/CND	DNH3137
	27	Stopper/SLD	DNK6009
	28	Control Panel	DNK6637
	29	Chassis	DNK6636
	30	Knob	DNK6530
	31	Button	DAC3229
	32	Button	DAC3230
	33	Button S (Black)	DAC2663
	34	Button	DAC3231
	35	Button	DAC3210
	36	Button	DAC3232
	37	•••••	
	38	•••••	
	39	•••••	
	40	Nut (M12)	NKX2FNI
	41	Washer	WA62D095D050
	42	Washer	YC60FAC
	43	Screw	ASZ26P050FTC
	44	Screw	BPZ30P080FNI
	45	Screw	BPZ30P120FTB
	46	Screw (M3*5)	DBA1340
NSP	47	Label	See Contrast table (2)

*Cross fader PCB (jumper connection) of MXR Assy is not service parts.
If necessary to order the MXR Assy.

(2) CONTRAST TABLE

DDJ-RB/SXJ and XJCN are constructed the same except for the following:

Mark	No.	Symbol and Description	DDJ-RB/SXJ	DDJ-RB/XJCN
NSP	47	Label	Not used	DRW2686